

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE - RW5B CTO WE13 112G08005

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

ORDER ID : Q1886
ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1886

Project ID : NWIRP Bethpage - RW5B CTO WE13 112G08005

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1886-01
Q1886-02
Q1886-03

Client Sample Number

RW5-SP100-20250423
RW5-SP201-20250423
RW5-SP303-20250423

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: 5/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage - RW5B CTO WE13 112G08005

Project Manager: Ernie Wu

Chemtech Project # Q1886

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

3 Water samples were received on 04/25/2025.

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-GGAThe analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank Spike Duplicate for {PB167760BSD} with File ID: BN036953.D met requirements for all samples except for 1,4-Dioxane[68%], recovery marginally failed therefore no corrective action was taken.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Sample RW5-SP100-20250423 was diluted due to high concentration.

E. Additional Comments:

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



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

The not QT review data is reported in the Miscellaneous.

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

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

CHEMTECH PROJECT NUMBER: Q1886

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate for {PB167760BSD}with File ID: BN036953.D met requirements for all samples except for 1,4-Dioxane[68%], recovery marginally failed therefore no corrective action was taken. .		✓	
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓

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

		NA	NO	YES
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).”

Sample RW5-SP100-20250423 was diluted due to high concentration.

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

The not QT review data is reported in the Miscellaneous.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1886

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 05/03/2025

LAB CHRONICLE

OrderID:	Q1886	OrderDate:	4/25/2025 10:16:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage - RW5B CTO WE13 112G08005
Contact:	Ernie Wu	Location:	L51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1886-01	RW5-SP100-2025042 3	Water			04/23/25			04/25/25
			SVOC-SIMGroup1	8270-Modified		04/28/25	04/30/25	
Q1886-01DL	RW5-SP100-2025042 3DL	Water			04/23/25			04/25/25
			SVOC-SIMGroup1	8270-Modified		04/28/25	04/30/25	
Q1886-02	RW5-SP201-2025042 3	Water			04/23/25			04/25/25
			SVOC-SIMGroup1	8270-Modified		04/28/25	04/30/25	
Q1886-03	RW5-SP303-2025042 3	Water			04/23/25			04/25/25
			SVOC-SIMGroup1	8270-Modified		04/28/25	04/30/25	



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Hit Summary Sheet SW-846

SDG No.: Q1886

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW5-SP100-20250423								
Q1886-01	RW5-SP100-20250423	WATER	1,4-Dioxane	6.200	EQ	0.07	0.2	0.2 ug/L
			Total Svoc :	6.20				
			Total Concentration:	6.20				
Client ID : RW5-SP100-20250423DL								
Q1886-01DL	RW5-SP100-20250423DI	WATER	1,4-Dioxane	6.400	DQ	0.13	0.4	0.4 ug/L
			Total Svoc :	6.40				
			Total Concentration:	6.40				



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1886

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB167760BL	PB167760BL	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.28	71		30	150
		Nitrobenzene-d5	0.4	0.28	70		55	111
		2-Fluorobiphenyl	0.4	0.29	73		53	106
		Terphenyl-d14	0.4	0.31	77		58	132
PB167760BS	PB167760BS	2-Methylnaphthalene-d10	0.4	0.36	91		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.35	86		55	111
		2-Fluorobiphenyl	0.4	0.31	79		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
PB167760BSD	PB167760BSD	2-Methylnaphthalene-d10	0.4	0.36	89		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
Q1886-01	RW5-SP100-20250423	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.31	78		53	106
		Terphenyl-d14	0.4	0.36	89		58	132
Q1886-01DL	RW5-SP100-20250423DL	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.28	69		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
Q1886-02	RW5-SP201-20250423	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
Q1886-03	RW5-SP303-20250423	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.26	66		53	106
		Terphenyl-d14	0.4	0.33	83		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1886

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

DataFile: BN036952.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB167760BS	1,4-Dioxane	0.4	0.29	ug/L	73				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1886

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN036953.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB167760BSD	1,4-Dioxane	0.4	0.27	ug/L	68	7	*		70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167760BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1886

SAS No.: Q1886 SDG NO.: Q1886

Lab File ID: BN036942.D

Lab Sample ID: PB167760BL

Instrument ID: BNA_N

Date Extracted: 04/28/2025

Matrix: (soil/water) Water

Date Analyzed: 04/30/2025

Level: (low/med) LOW

Time Analyzed: 11:38

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167760BS	PB167760BS	BN036952.D	04/30/2025
RW5-SP100-20250423	Q1886-01	BN036947.D	04/30/2025
RW5-SP201-20250423	Q1886-02	BN036948.D	04/30/2025
RW5-SP303-20250423	Q1886-03	BN036949.D	04/30/2025
PB167760BSD	PB167760BSD	BN036953.D	04/30/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1886SDG NO.: Q1886Lab File ID: BN036922.DDFTPP Injection Date: 04/28/2025Instrument ID: BNA_NDFTPP Injection Time: 10:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67.4
68	Less than 2.0% of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	58.8
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	54.3
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
275	10.0 - 60.0% of mass 198	23.7
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	8.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.3 (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	BN036923.D	04/28/2025	11:35
SSTDICC0.2	SSTDICC0.2	BN036924.D	04/28/2025	12:11
SSTDICCC0.4	SSTDICCC0.4	BN036925.D	04/28/2025	12:47
SSTDICC0.8	SSTDICC0.8	BN036926.D	04/28/2025	13:24
SSTDICC1.6	SSTDICC1.6	BN036927.D	04/28/2025	14:00
SSTDICC3.2	SSTDICC3.2	BN036928.D	04/28/2025	14:36
SSTDICC5.0	SSTDICC5.0	BN036929.D	04/28/2025	15:12



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1886 SDG NO.: Q1886Lab File ID: BN036940.DDFTPP Injection Date: 04/30/2025Instrument ID: BNA_NDFTPP Injection Time: 10:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	72
68	Less than 2.0% of mass 69	0.6 (0.9) 1
69	Mass 69 relative abundance	60.6
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	54.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	24.7
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	8.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.9 (19.5) 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	BN036941.D	04/30/2025	10:59
PB167760BL	PB167760BL	BN036942.D	04/30/2025	11:38
RW5-SP100-20250423	Q1886-01	BN036947.D	04/30/2025	15:16
RW5-SP201-20250423	Q1886-02	BN036948.D	04/30/2025	15:52
RW5-SP303-20250423	Q1886-03	BN036949.D	04/30/2025	16:28
RW5-SP100-20250423DL	Q1886-01DL	BN036951.D	04/30/2025	17:41
PB167760BS	PB167760BS	BN036952.D	04/30/2025	18:17
PB167760BSD	PB167760BSD	BN036953.D	04/30/2025	18:53
SSTDCCC0.4EC	SSTDCCC0.4	BN036954.D	04/30/2025	19:29

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1886 SAS No.: Q1886 SDG NO.: Q1886

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/30/2025

Lab File ID: BN036941.D Time Analyzed: 10:59

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	2089	7.625	5327	10.40	3019	14.28
UPPER LIMIT	4178	8.125	10654	10.904	6038	14.777
LOWER LIMIT	1044.5	7.125	2663.5	9.904	1509.5	13.777
EPA SAMPLE NO.						
01 PB167760BL	2641	7.63	6297	10.42	3237	14.28
02 RW5-SP100-20250423	1739	7.63	4356	10.42	2481	14.28
03 PB167760BS	2072	7.63	5162	10.40	2727	14.28
04 PB167760BSD	2106	7.63	5174	10.40	2716	14.28
05 RW5-SP100-20250423DL	1638	7.63	4145	10.42	2384	14.28
06 RW5-SP201-20250423	1784	7.63	4537	10.42	2513	14.28
07 RW5-SP303-20250423	1937	7.63	4854	10.42	2711	14.28

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1886 SAS No.: Q1886 SDG NO.: Q1886

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/30/2025

Lab File ID: BN036941.D Time Analyzed: 10:59

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	6059	17.021	4788	21.215	4103	23.427
UPPER LIMIT	12118	17.521	9576	21.715	8206	23.927
LOWER LIMIT	3029.5	16.521	2394	20.715	2051.5	22.927
EPA SAMPLE NO.						
01 PB167760BL	6245	17.02	4196	21.22	3575	23.43
02 RW5-SP100-20250423	5000	17.02	4495	21.22	4168	23.42
03 PB167760BS	5423	17.02	4126	21.22	3488	23.42
04 PB167760BSD	5366	17.02	3877	21.22	3193	23.42
05 RW5-SP100-20250423DL	4971	17.02	3859	21.22	3394	23.42
06 RW5-SP201-20250423	5104	17.02	4282	21.22	3782	23.42
07 RW5-SP303-20250423	5602	17.02	4527	21.22	3928	23.42

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
- 18

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	04/23/25
Project:	NWIRP Bethpage - RW5B CTO WE13 112G08005	Date Received:	04/25/25
Client Sample ID:	RW5-SP100-20250423	SDG No.:	Q1886
Lab Sample ID:	Q1886-01	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
BN036947.D	1	04/28/25 08:50	04/30/25 15:16	PB167760

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.20	EQ	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		78%	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	1740	7.633				
1146-65-2	Naphthalene-d8	4360	10.415				
15067-26-2	Acenaphthene-d10	2480	14.277				
1517-22-2	Phenanthrene-d10	5000	17.021				
1719-03-5	Chrysene-d12	4500	21.215				
1520-96-3	Perylene-d12	4170	23.424				

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\BN043025\
Data File : BN036947.D
Acq On : 30 Apr 2025 15:16
Operator : RC/JU
Sample : Q1886-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423

Quant Time: Apr 30 15:48:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

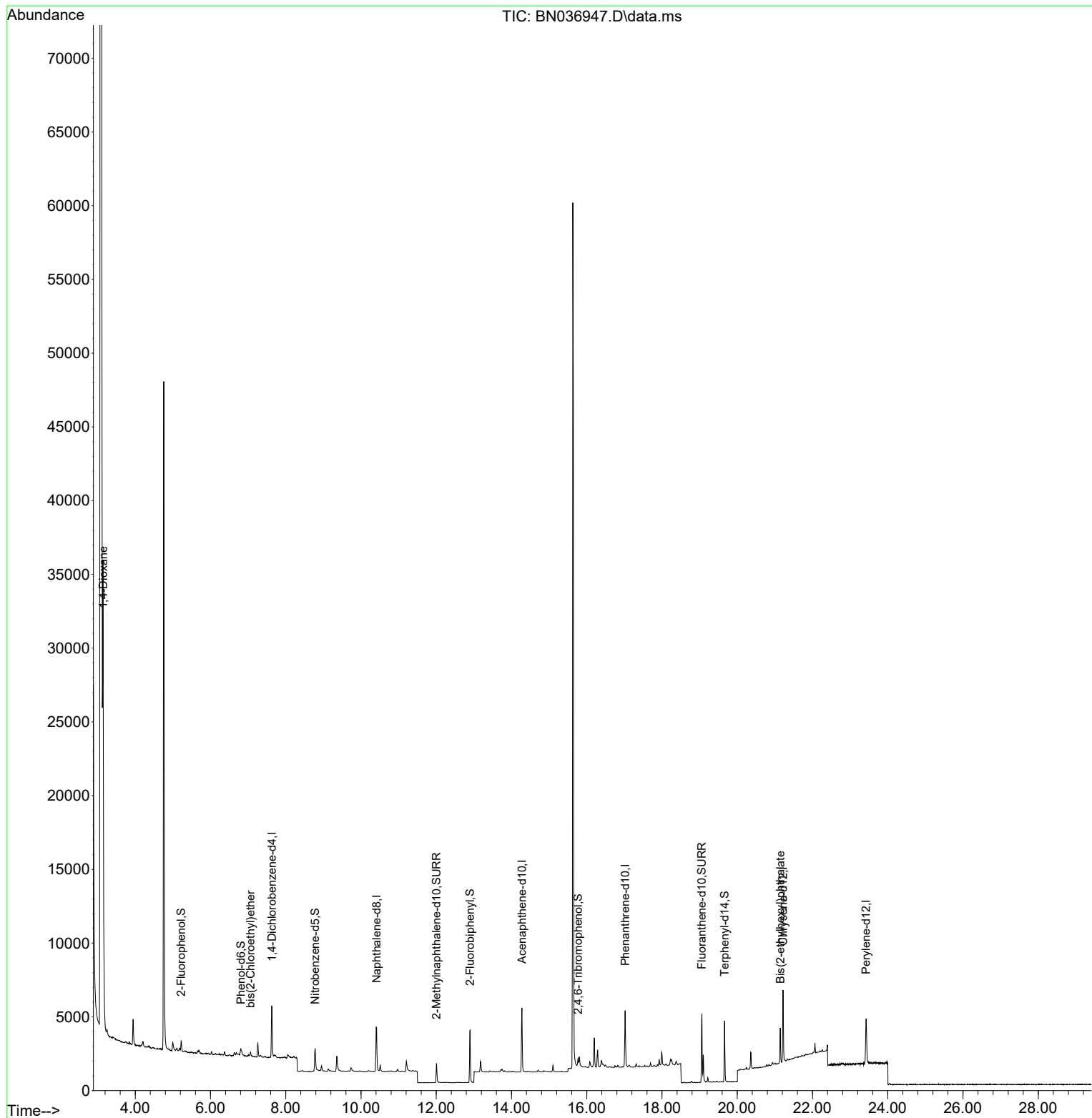
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	1739	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	4356	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	2481	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5000	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4495	0.400	ng	0.00
35) Perylene-d12	23.424	264	4168	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	523	0.118	ng	0.00
5) Phenol-d6	6.809	99	398	0.073	ng	0.00
8) Nitrobenzene-d5	8.781	82	1440	0.316	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	1858	0.305	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	249	0.225	ng	0.00
15) 2-Fluorobiphenyl	12.898	172	3733	0.311	ng	0.00
27) Fluoranthene-d10	19.059	212	5142	0.397	ng	0.00
31) Terphenyl-d14	19.662	244	3766	0.355	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.148	88	13401	6.184	ng	95
6) bis(2-Chloroethyl)ether	7.062	93	197	0.039	ng	96
34) Bis(2-ethylhexyl)phtha...	21.144	149	2248	0.239	ng	97

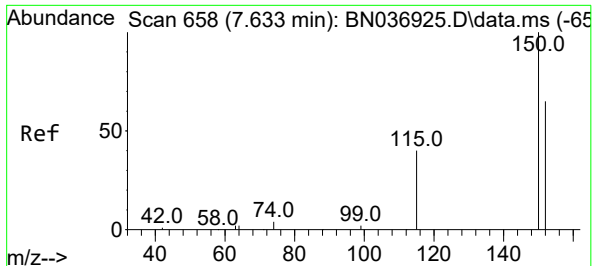
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036947.D
Acq On : 30 Apr 2025 15:16
Operator : RC/JU
Sample : Q1886-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423

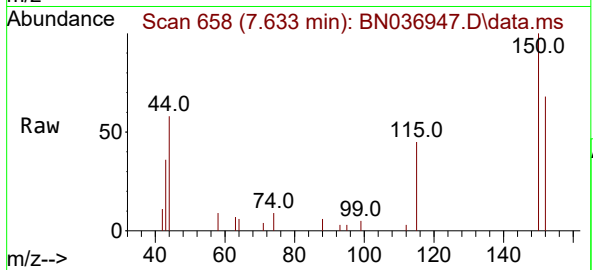
Quant Time: Apr 30 15:48:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



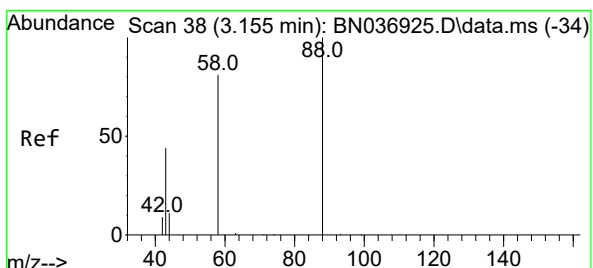
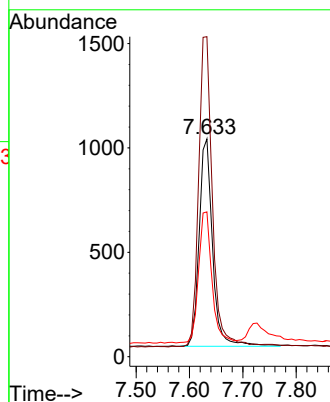
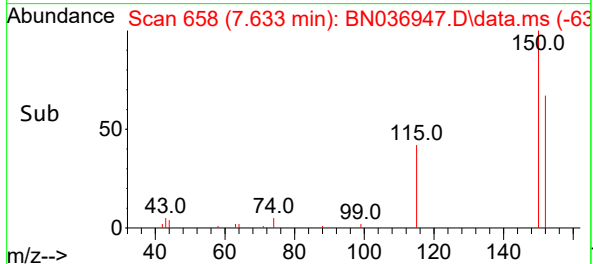


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16

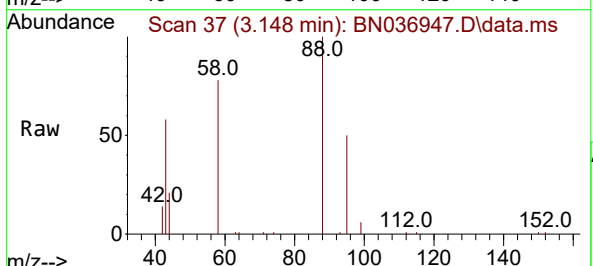
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423



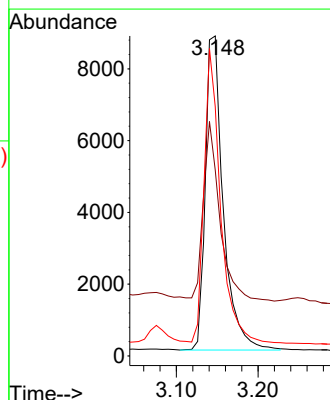
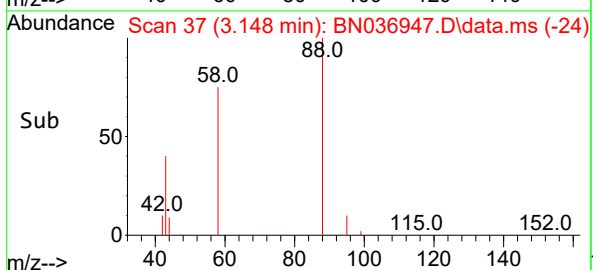
Tgt Ion: 152 Resp: 1739
Ion Ratio Lower Upper
152 100
150 147.0 121.1 181.7
115 66.5 51.8 77.6

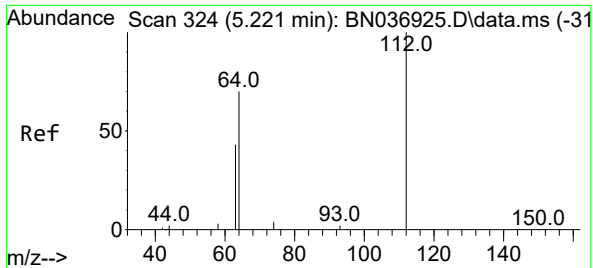


#2
1,4-Dioxane
Concen: 6.184 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16



Tgt Ion: 88 Resp: 13401
Ion Ratio Lower Upper
88 100
43 52.8 37.9 56.9
58 85.3 65.8 98.6

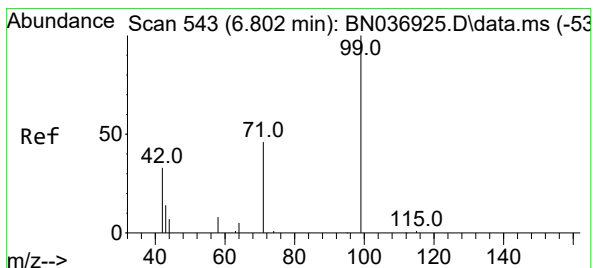
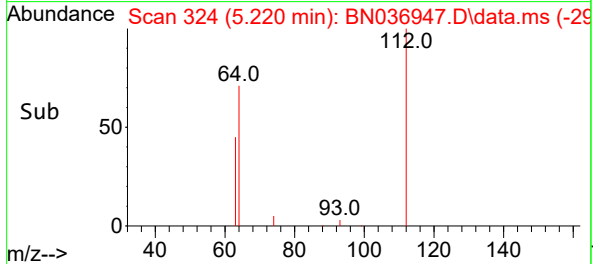
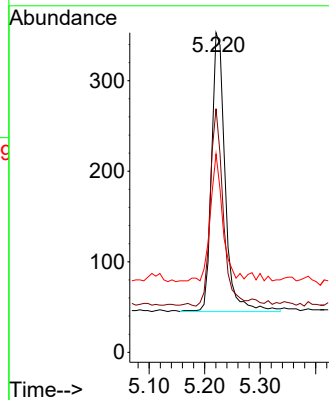
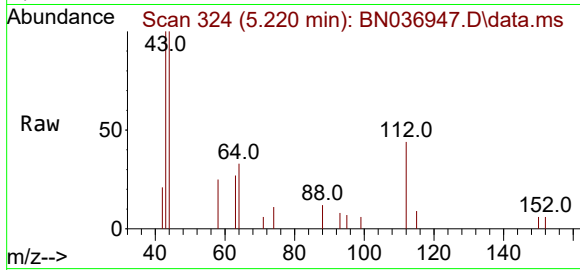




#4
2-Fluorophenol
Concen: 0.118 ng
RT: 5.220 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16

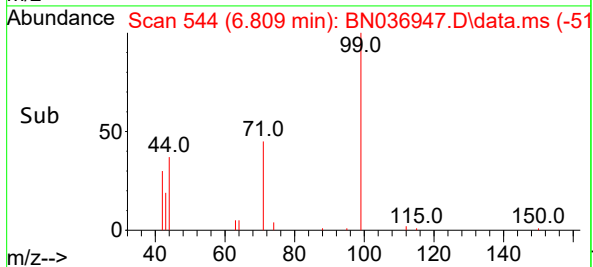
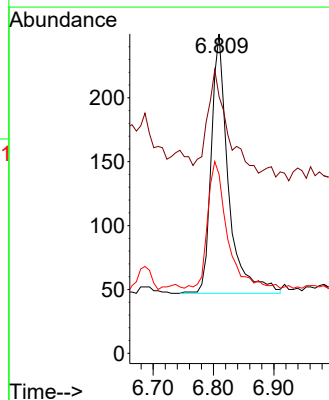
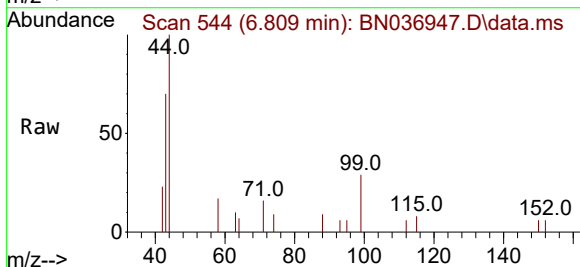
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423

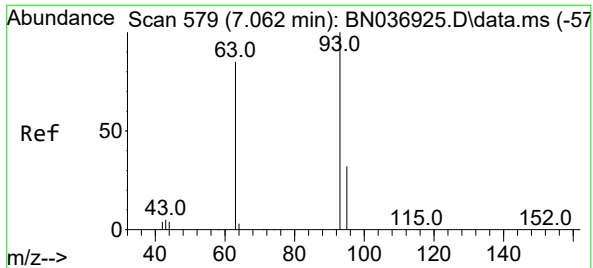
Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.5	55.7	83.5
63	41.1	33.9	50.9



#5
Phenol-d6
Concen: 0.073 ng
RT: 6.809 min Scan# 544
Delta R.T. 0.007 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16

Tgt Ion	Ratio	Lower	Upper
99	100		
42	45.7	29.6	44.4#
71	56.0	36.0	54.0#



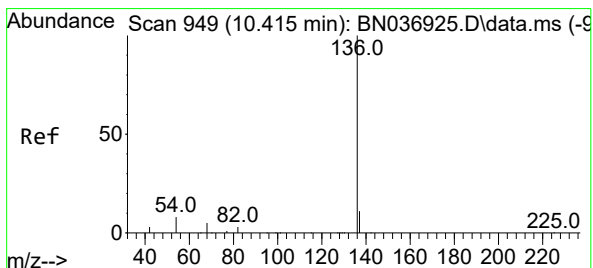
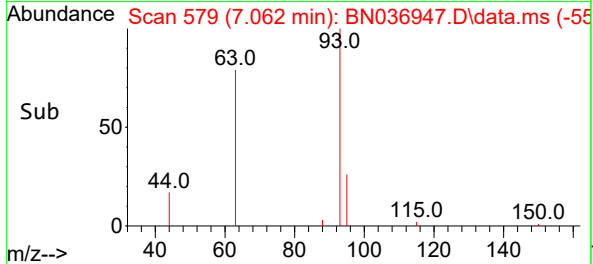
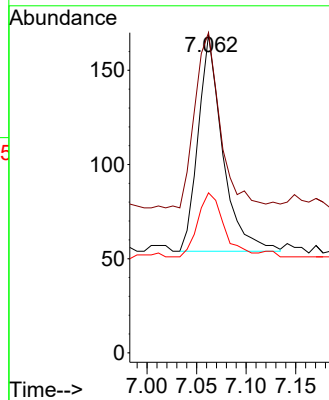
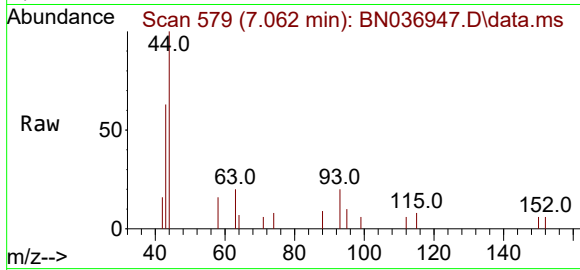


#6
bis(2-Chloroethyl)ether
Concen: 0.039 ng
RT: 7.062 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423

Tgt Ion: 93 Resp: 197

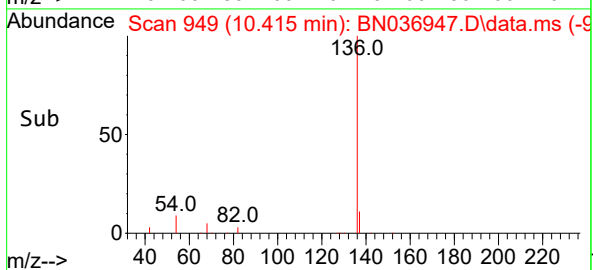
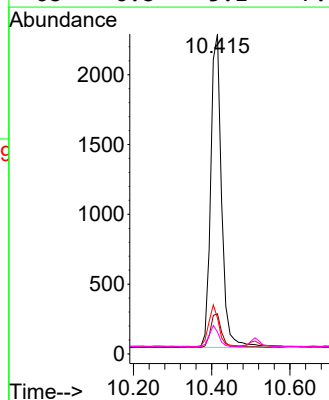
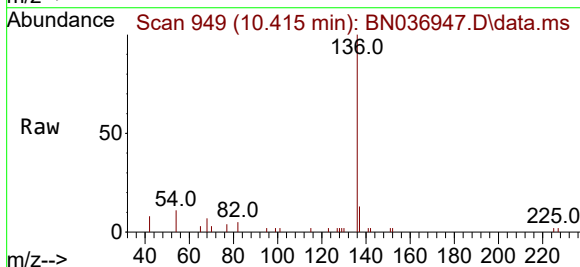
Ion	Ratio	Lower	Upper
93	100		
63	91.4	69.0	103.6
95	32.0	25.4	38.0

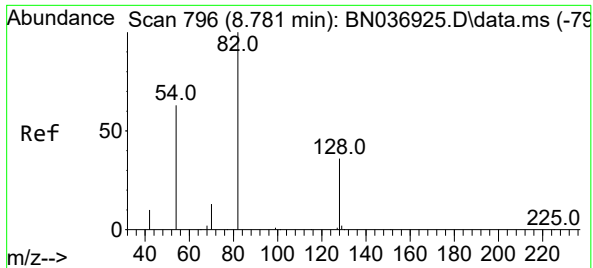


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16

Tgt Ion: 136 Resp: 4356

Ion	Ratio	Lower	Upper
136	100		
137	12.5	9.7	14.5
54	11.2	8.0	12.0
68	6.8	5.1	7.7

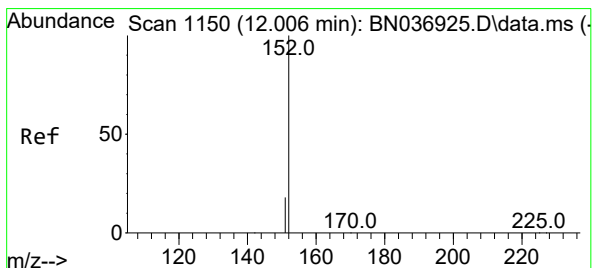
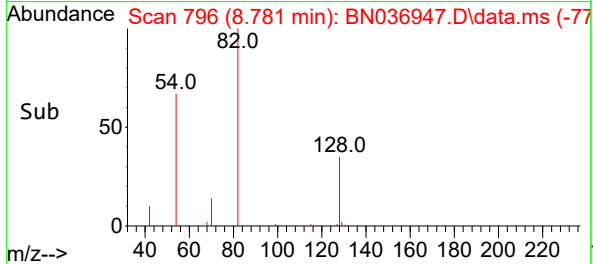
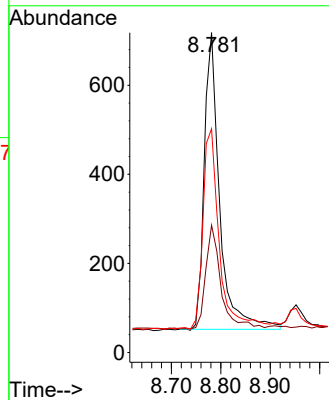
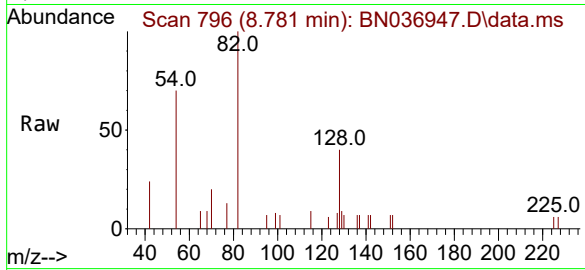




#8
Nitrobenzene-d5
Concen: 0.316 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16

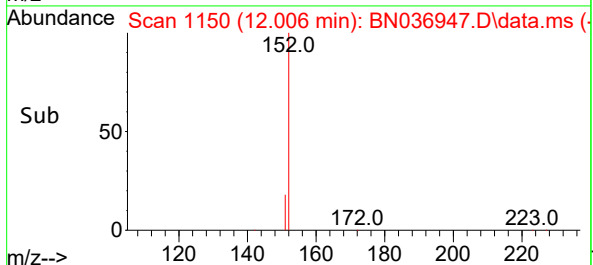
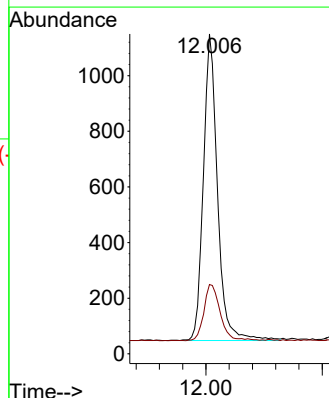
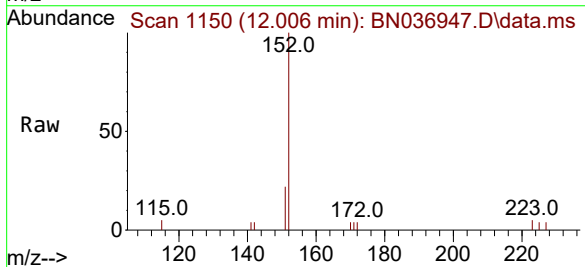
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423

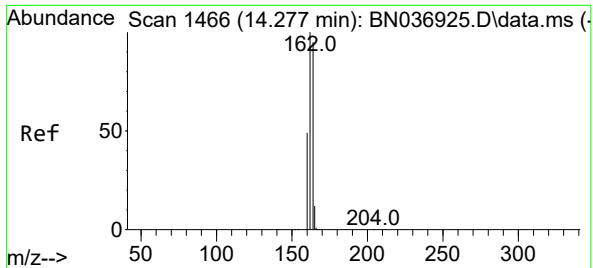
Tgt Ion: 82 Resp: 1440
Ion Ratio Lower Upper
82 100
128 39.8 30.7 46.1
54 69.9 52.1 78.1



#11
2-Methylnaphthalene-d10
Concen: 0.305 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16

Tgt Ion: 152 Resp: 1858
Ion Ratio Lower Upper
152 100
151 21.3 16.9 25.3

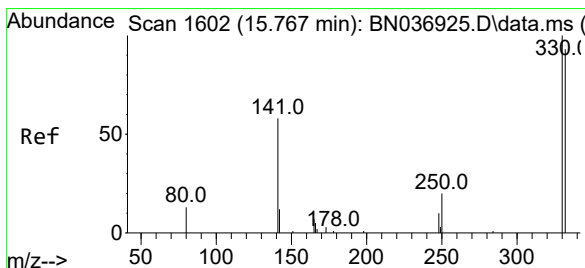
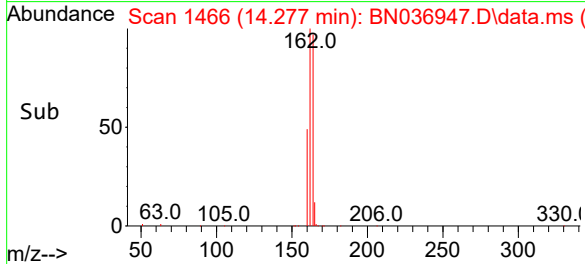
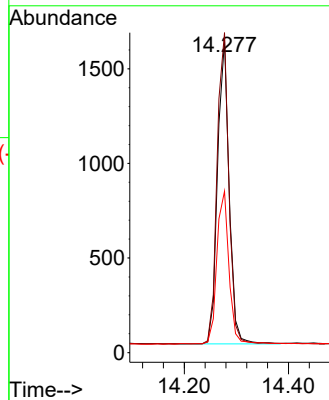
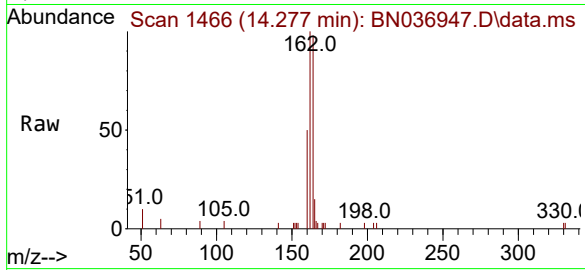




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16

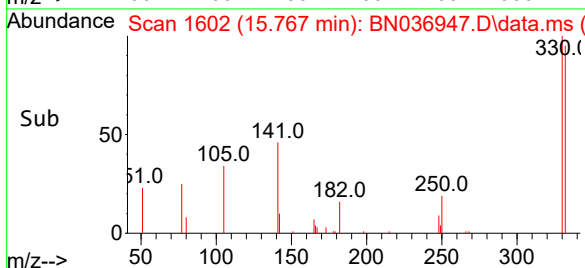
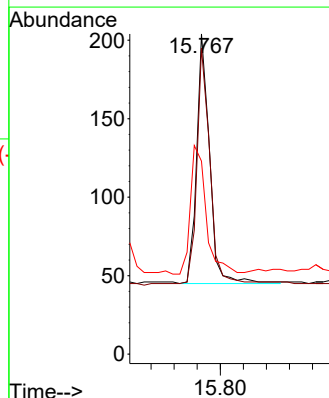
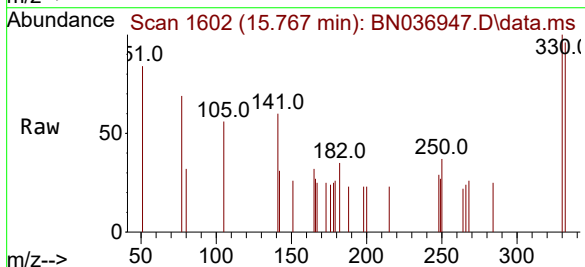
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423

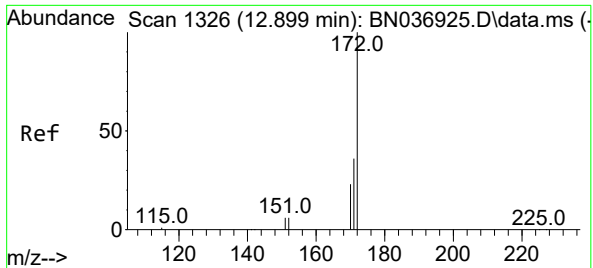
Tgt Ion:	164	Resp:	2481
Ion	Ratio	Lower	Upper
164	100		
162	102.4	83.8	125.8
160	51.7	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 0.225 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16

Tgt Ion:	330	Resp:	249
Ion	Ratio	Lower	Upper
330	100		
332	94.0	76.3	114.5
141	62.7	45.4	68.2

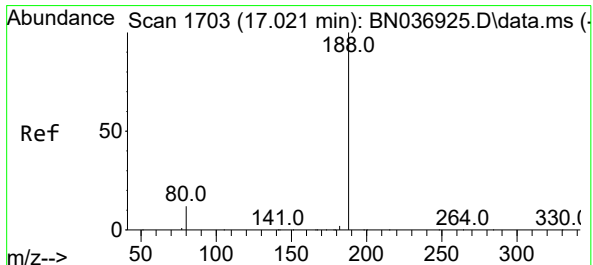
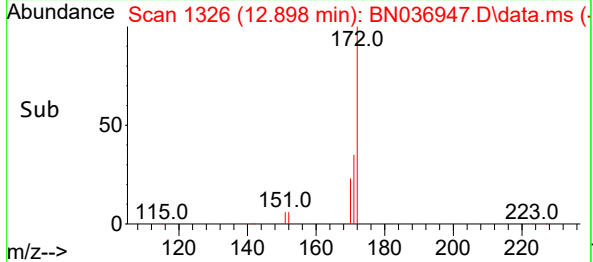
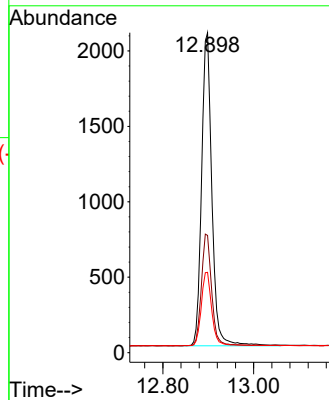
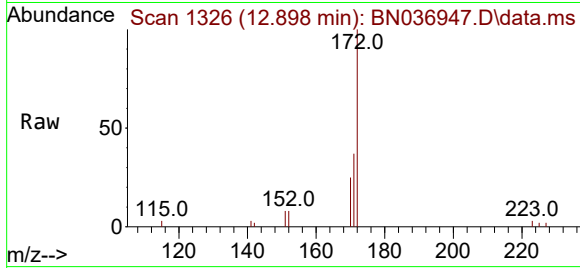




#15
2-Fluorobiphenyl
Concen: 0.311 ng
RT: 12.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16

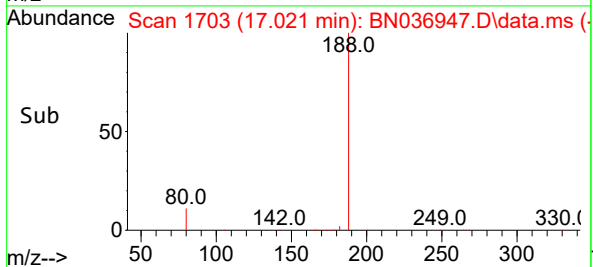
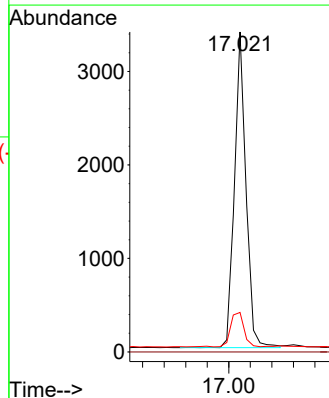
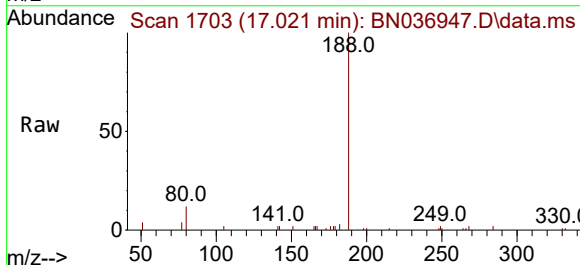
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423

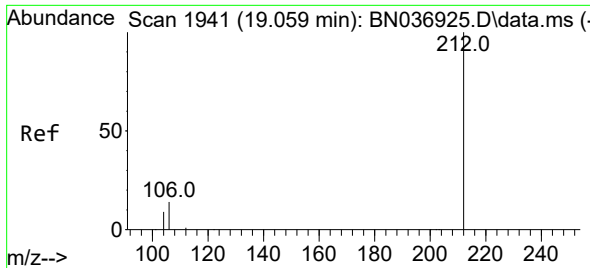
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.4	44.0
170	25.1	19.4	29.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.4	10.7	16.1

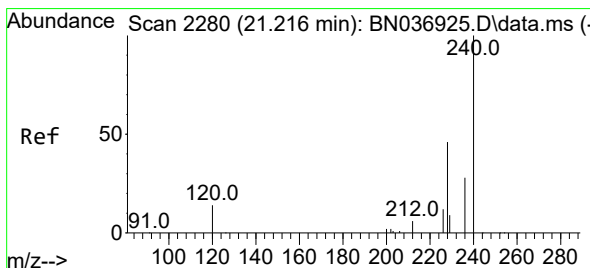
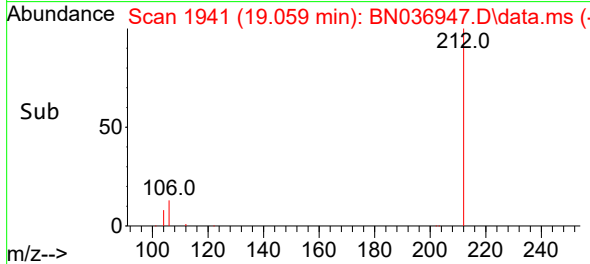
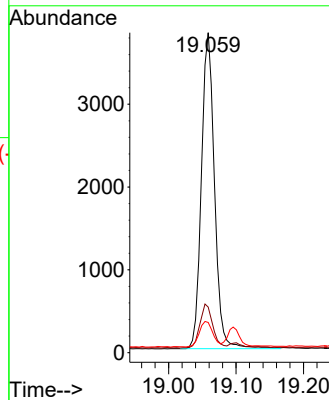
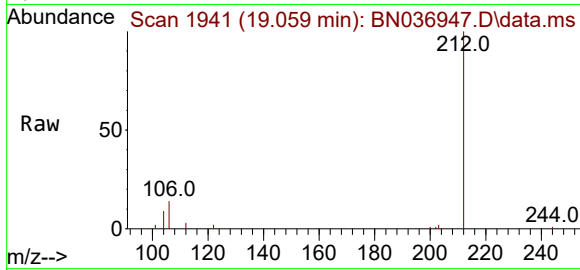




#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 19.059 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16

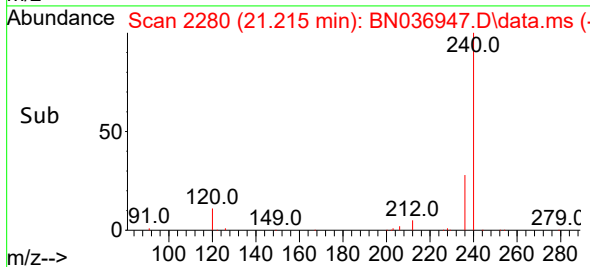
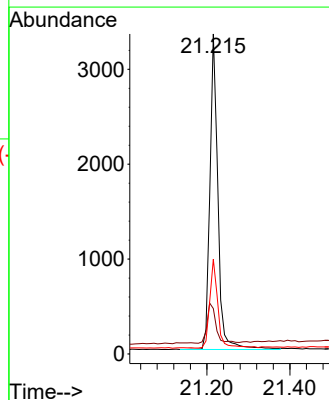
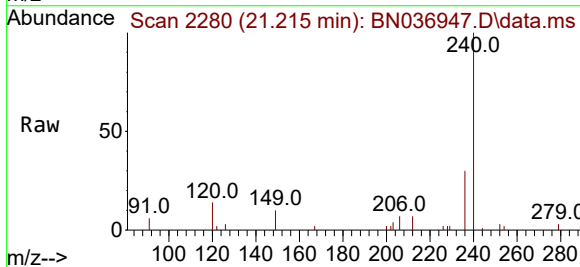
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423

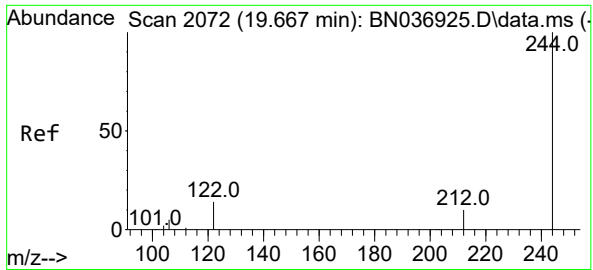
Tgt Ion:	212	Resp:	5142
Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.6	17.4
104	8.4	7.0	10.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 2280
Delta R.T. -0.000 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16

Tgt Ion:	240	Resp:	4495
Ion	Ratio	Lower	Upper
240	100		
120	14.2	14.1	21.1
236	29.6	23.8	35.8

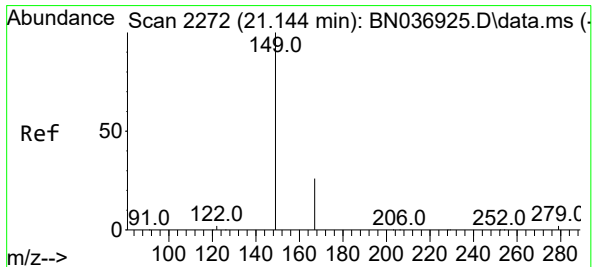
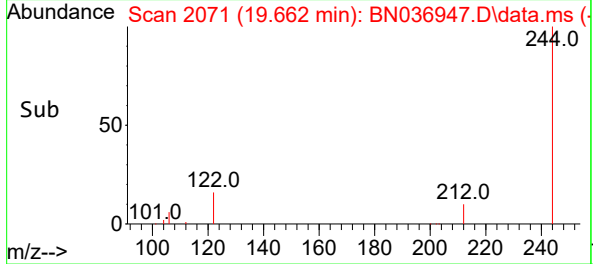
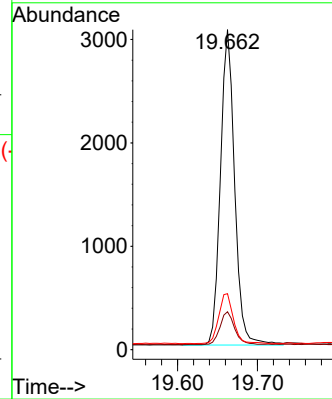
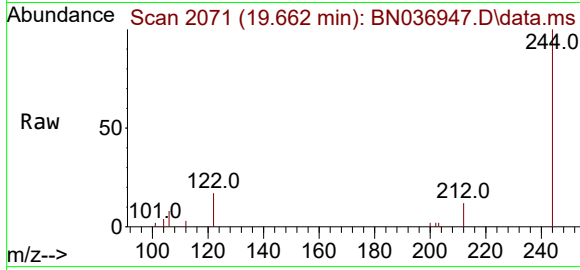




#31
Terphenyl-d14
Concen: 0.355 ng
RT: 19.662 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16

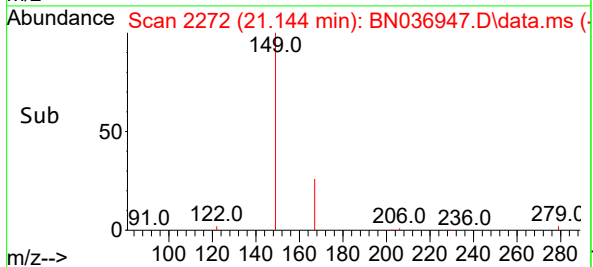
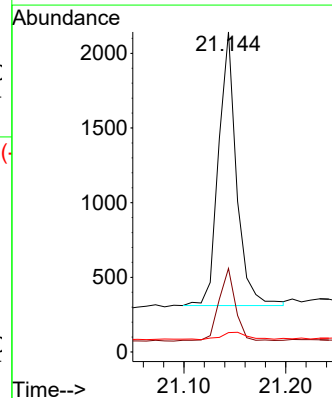
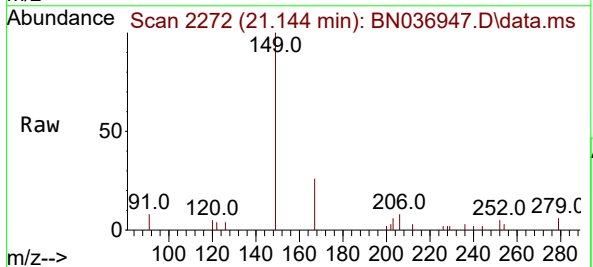
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423

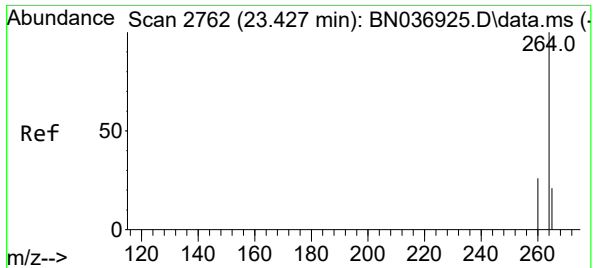
Tgt Ion:244	Resp:	3766
Ion Ratio	Lower	Upper
244	100	
212	11.9	9.6 14.4
122	17.5	12.7 19.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.239 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036947.D
Acq: 30 Apr 2025 15:16

Tgt Ion:149	Resp:	2248
Ion Ratio	Lower	Upper
149	100	
167	24.8	21.0 31.6
279	3.3	2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.424 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036947.D

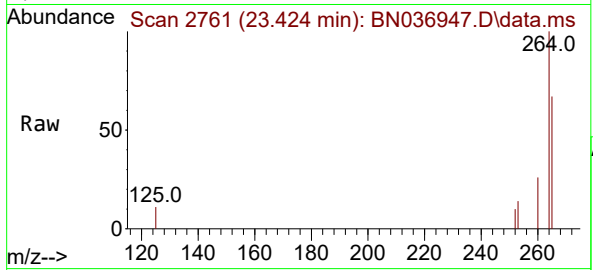
Acq: 30 Apr 2025 15:16

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-20250423



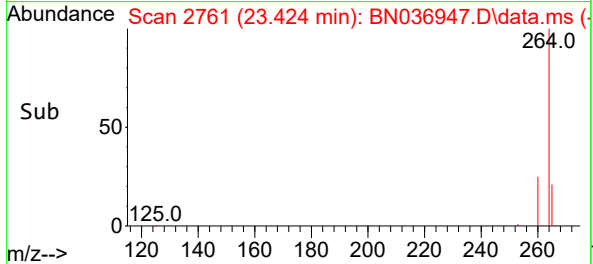
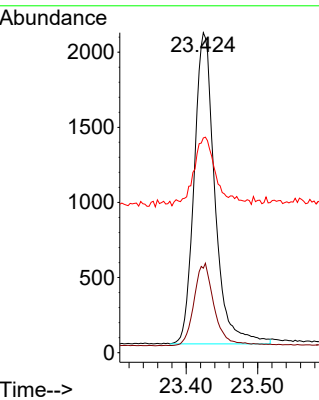
Tgt Ion:264 Resp: 4168

Ion	Ratio	Lower	Upper

264	100		

260	26.4	22.2	33.2

265	67.1	65.8	98.6



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	04/23/25
Project:	NWIRP Bethpage - RW5B CTO WE13 112G08005	Date Received:	04/25/25
Client Sample ID:	RW5-SP100-20250423DL	SDG No.:	Q1886
Lab Sample ID:	Q1886-01DL	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
BN036951.D	2	04/28/25 08:50	04/30/25 17:41	PB167760

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	6.40	DQ	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		69%	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	1640	7.633				
1146-65-2	Naphthalene-d8	4150	10.415				
15067-26-2	Acenaphthene-d10	2380	14.277				
1517-22-2	Phenanthrene-d10	4970	17.021				
1719-03-5	Chrysene-d12	3860	21.215				
1520-96-3	Perylene-d12	3390	23.424				

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\BN043025\
Data File : BN036951.D
Acq On : 30 Apr 2025 17:41
Operator : RC/JU
Sample : Q1886-01DL 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423DL

Quant Time: Apr 30 18:07:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

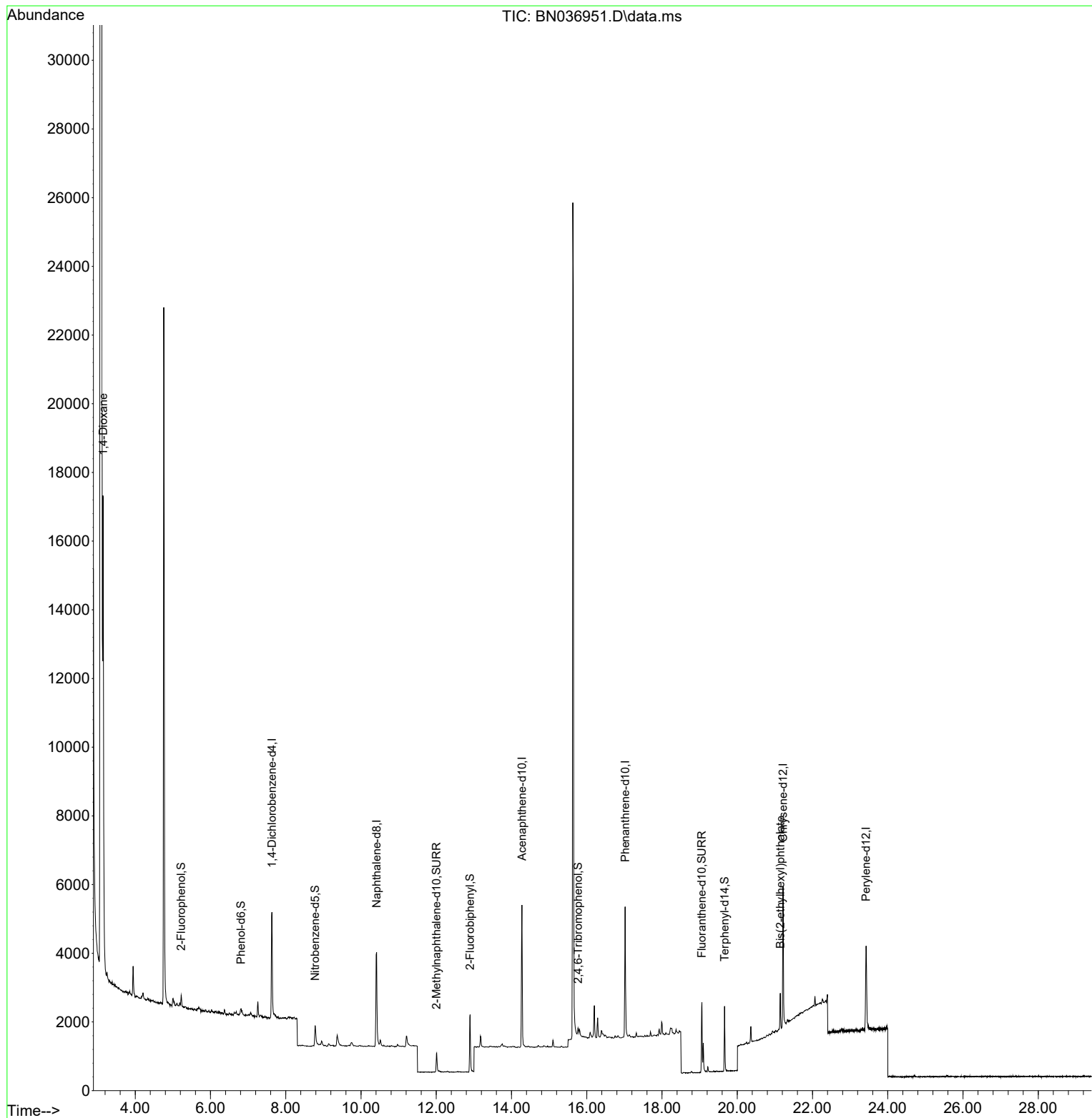
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	1638	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	4145	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	2384	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	4971	0.400	ng	0.00
29) Chrysene-d12	21.215	240	3859	0.400	ng	0.00
35) Perylene-d12	23.424	264	3394	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	256	0.061	ng	0.00
5) Phenol-d6	6.809	99	190	0.037	ng	0.00
8) Nitrobenzene-d5	8.781	82	687	0.158	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	885	0.153	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	124	0.117	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	1598	0.139	ng	0.00
27) Fluoranthene-d10	19.059	212	2424	0.188	ng	0.00
31) Terphenyl-d14	19.663	244	1740	0.191	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.148	88	6508	3.188	ng	93
34) Bis(2-ethylhexyl)phtha...	21.144	149	1007	0.125	ng	# 97

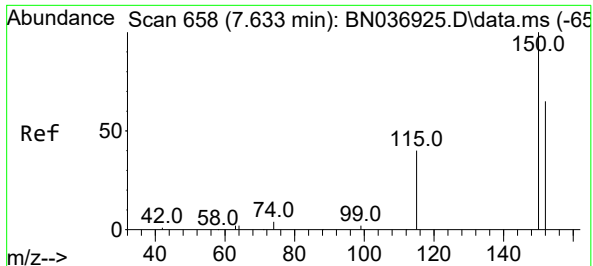
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036951.D
Acq On : 30 Apr 2025 17:41
Operator : RC/JU
Sample : Q1886-01DL 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423DL

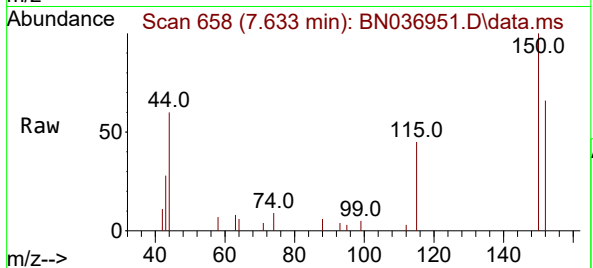
Quant Time: Apr 30 18:07:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



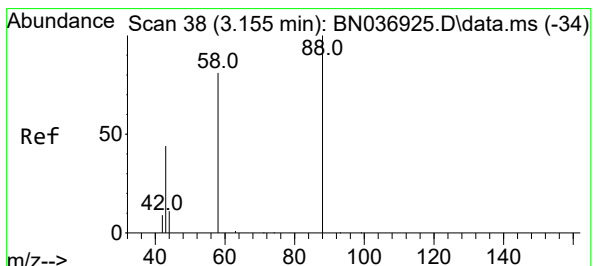
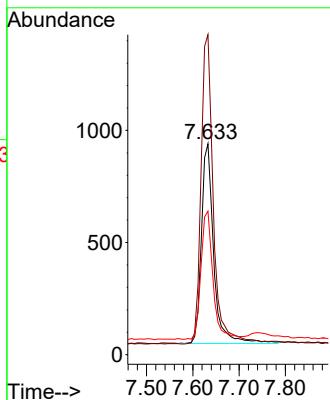
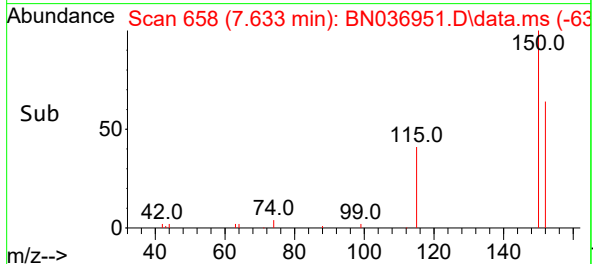


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036951.D
Acq: 30 Apr 2025 17:41

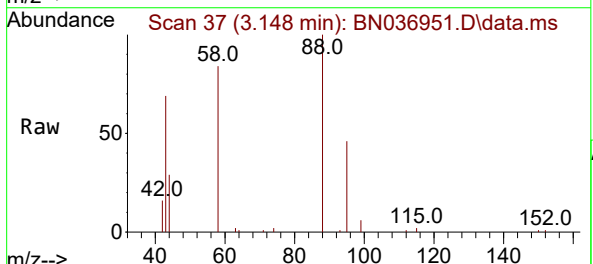
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423DL



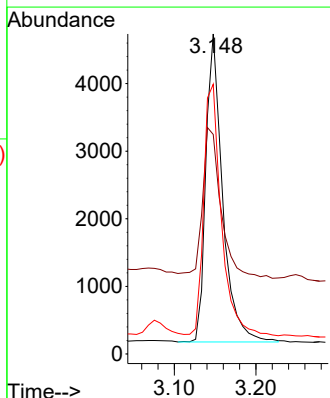
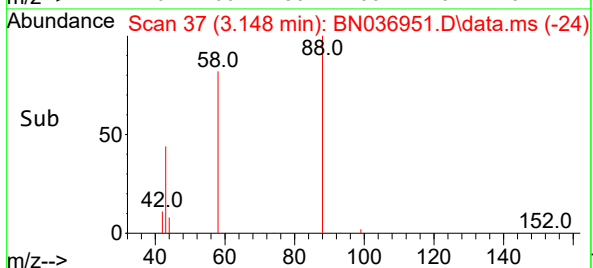
Tgt Ion:152 Resp: 1638
Ion Ratio Lower Upper
152 100
150 151.8 121.1 181.7
115 68.1 51.8 77.6

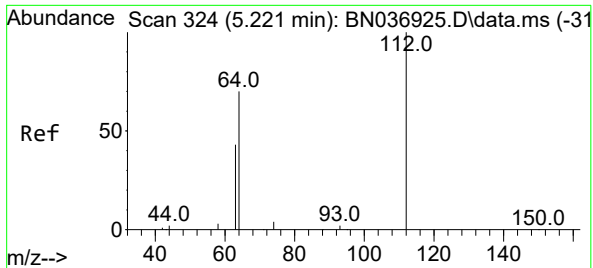


#2
1,4-Dioxane
Concen: 3.188 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036951.D
Acq: 30 Apr 2025 17:41



Tgt Ion: 88 Resp: 6508
Ion Ratio Lower Upper
88 100
43 54.6 37.9 56.9
58 86.1 65.8 98.6

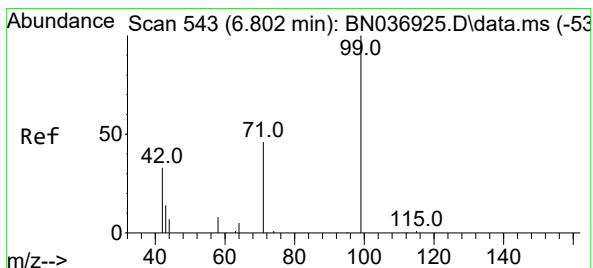
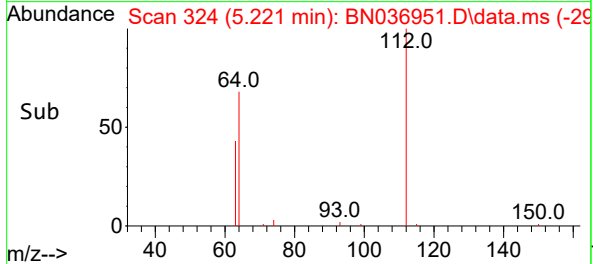
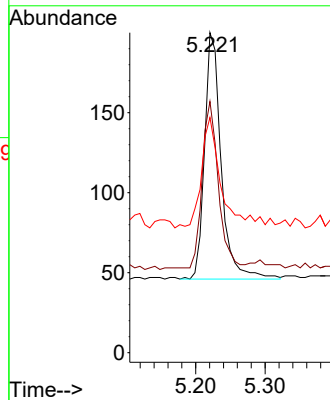
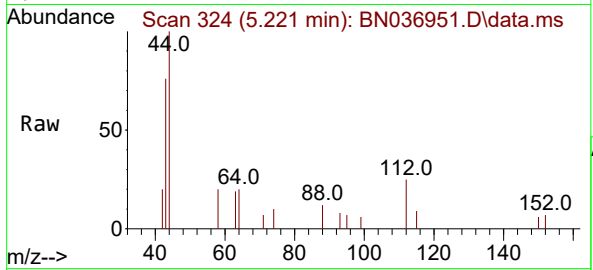




#4
2-Fluorophenol
Concen: 0.061 ng
RT: 5.221 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN036951.D
Acq: 30 Apr 2025 17:41

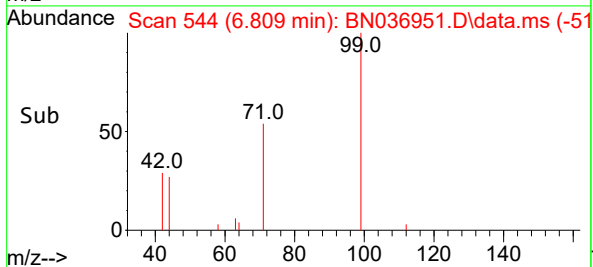
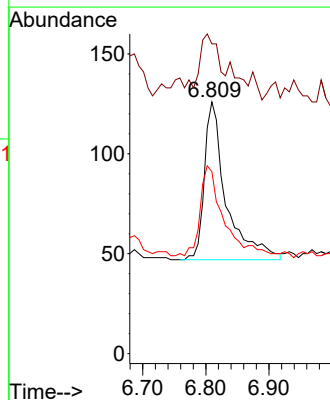
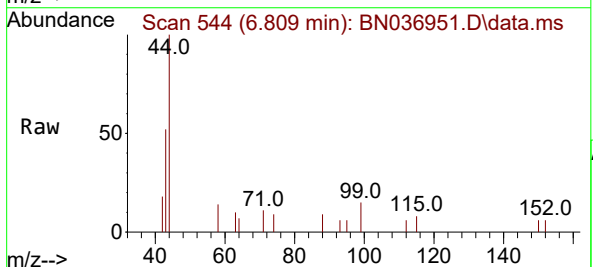
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423DL

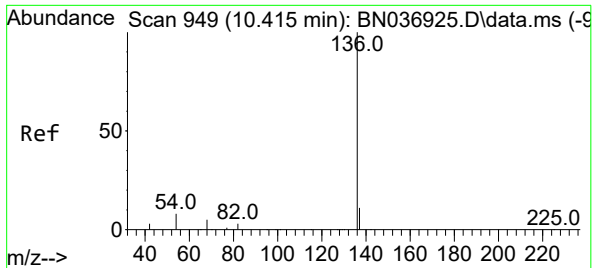
Tgt Ion:112 Resp: 256
Ion Ratio Lower Upper
112 100
64 65.6 55.7 83.5
63 52.7 33.9 50.9#



#5
Phenol-d6
Concen: 0.037 ng
RT: 6.809 min Scan# 544
Delta R.T. 0.007 min
Lab File: BN036951.D
Acq: 30 Apr 2025 17:41

Tgt Ion: 99 Resp: 190
Ion Ratio Lower Upper
99 100
42 26.3 29.6 44.4#
71 60.0 36.0 54.0#

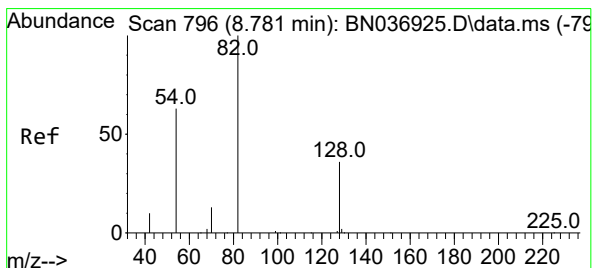
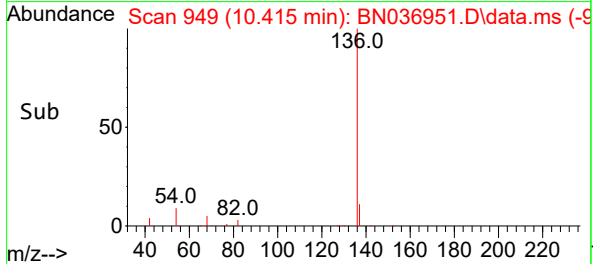
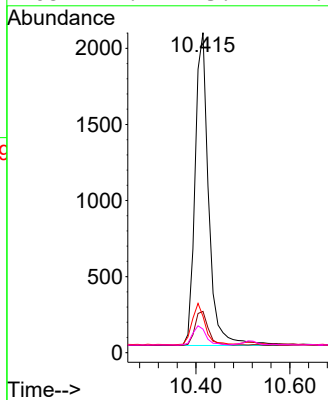
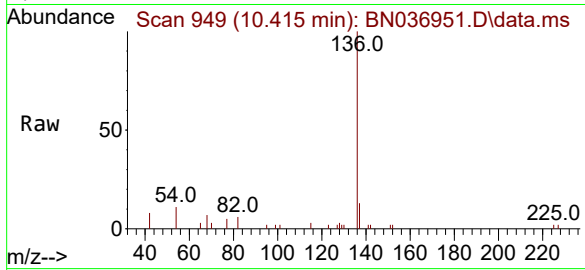




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036951.D
Acq: 30 Apr 2025 17:41

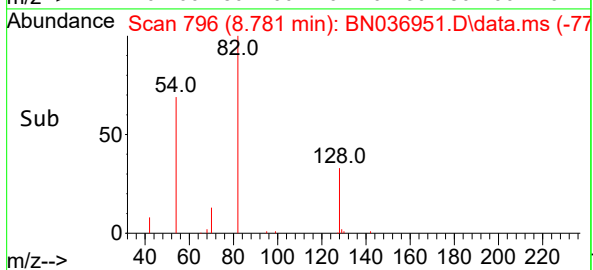
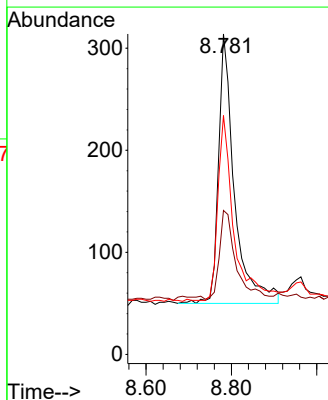
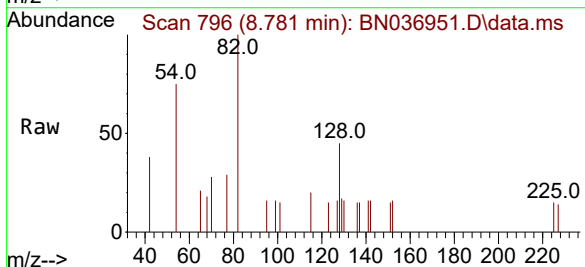
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423DL

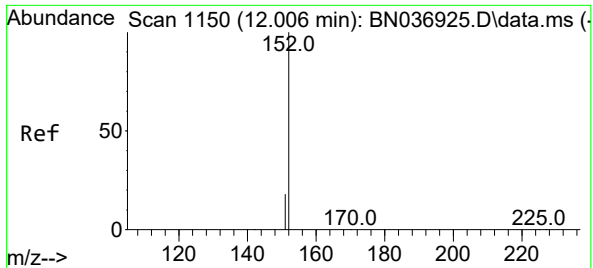
Tgt Ion:	136	Resp:	4145
Ion	Ratio	Lower	Upper
136	100		
137	12.9	9.7	14.5
54	11.4	8.0	12.0
68	7.4	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.158 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036951.D
Acq: 30 Apr 2025 17:41

Tgt Ion:	82	Resp:	687
Ion	Ratio	Lower	Upper
82	100		
128	44.9	30.7	46.1
54	74.5	52.1	78.1

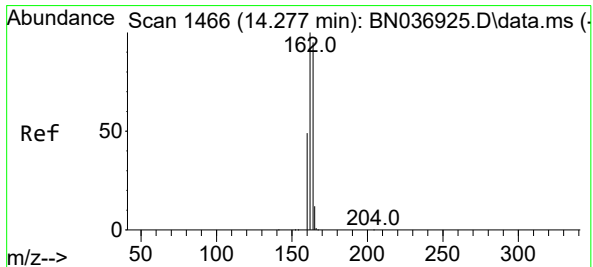
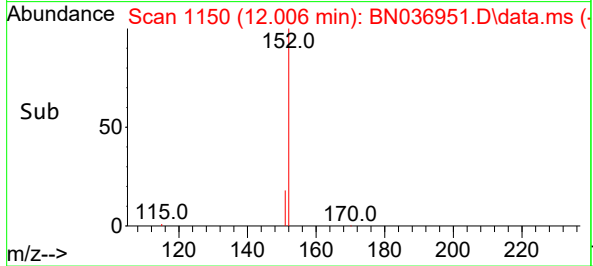
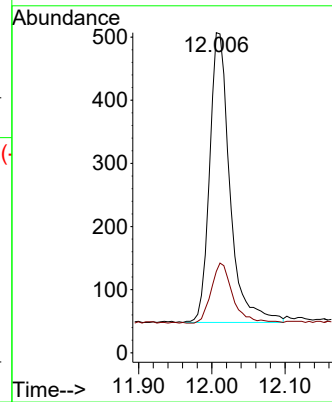
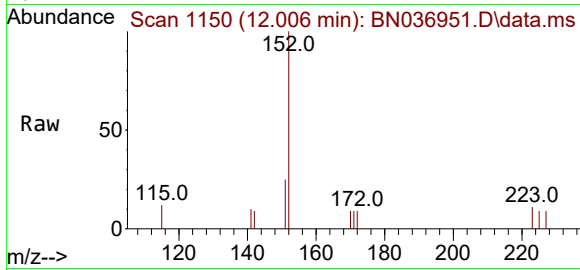




#11
2-Methylnaphthalene-d10
Concen: 0.153 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036951.D
Acq: 30 Apr 2025 17:41

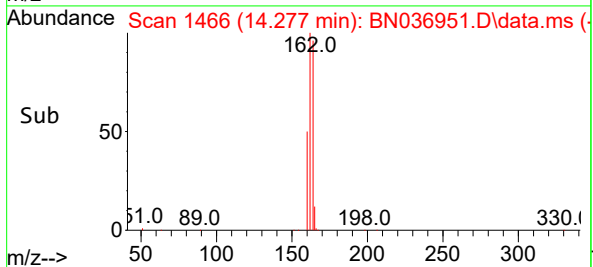
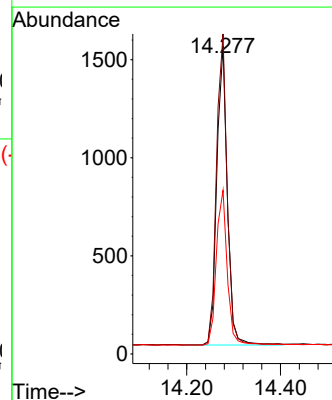
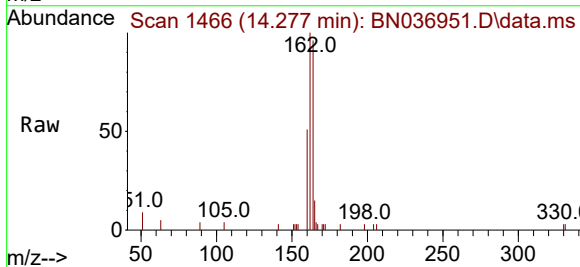
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423DL

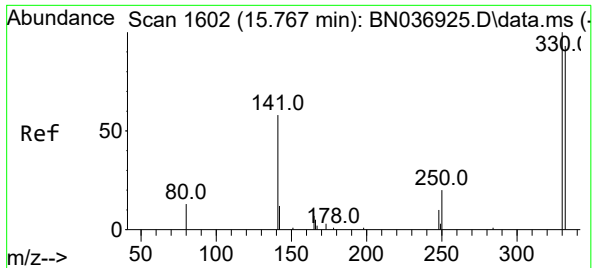
Tgt Ion:152 Resp: 885
Ion Ratio Lower Upper
152 100
151 22.1 16.9 25.3



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036951.D
Acq: 30 Apr 2025 17:41

Tgt Ion:164 Resp: 2384
Ion Ratio Lower Upper
164 100
162 104.0 83.8 125.8
160 53.2 42.0 63.0

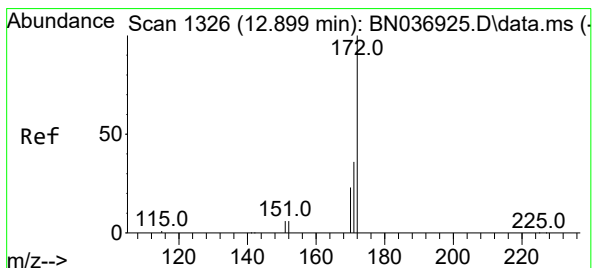
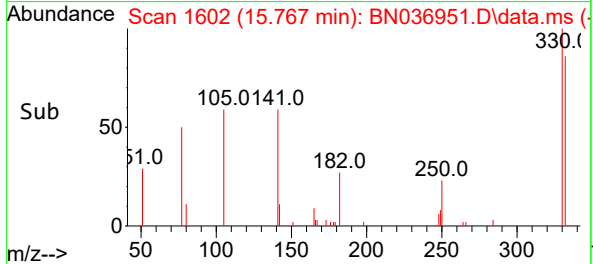
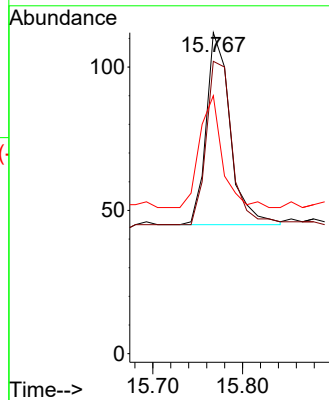
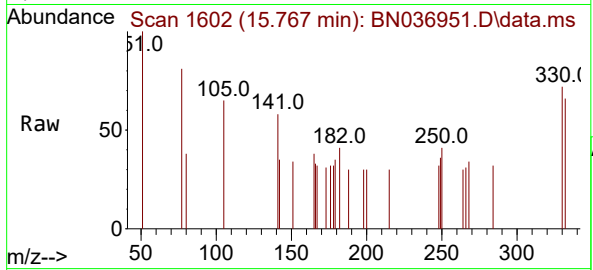




#14
2,4,6-Tribromophenol
Concen: 0.117 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036951.D
Acq: 30 Apr 2025 17:41

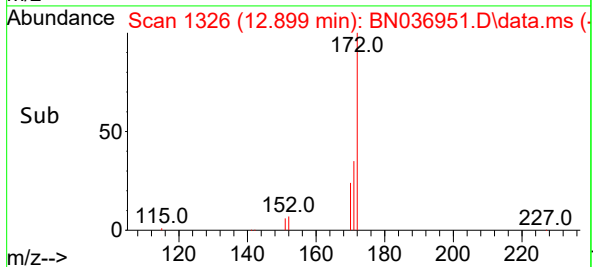
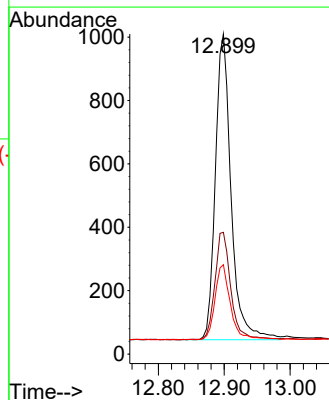
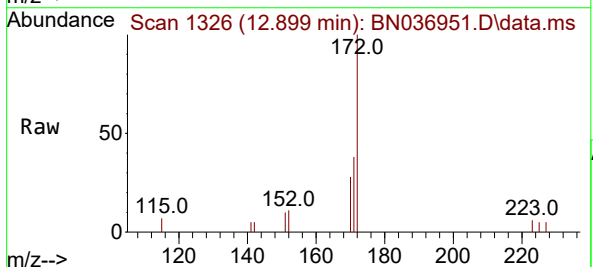
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423DL

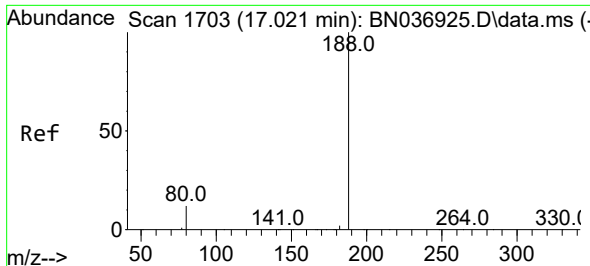
Tgt Ion:330 Resp: 124
Ion Ratio Lower Upper
330 100
332 92.7 76.3 114.5
141 55.6 45.4 68.2



#15
2-Fluorobiphenyl
Concen: 0.139 ng
RT: 12.899 min Scan# 1326
Delta R.T. -0.000 min
Lab File: BN036951.D
Acq: 30 Apr 2025 17:41

Tgt Ion:172 Resp: 1598
Ion Ratio Lower Upper
172 100
171 38.0 29.4 44.0
170 27.9 19.4 29.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036951.D

Acq: 30 Apr 2025 17:41

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-20250423DL

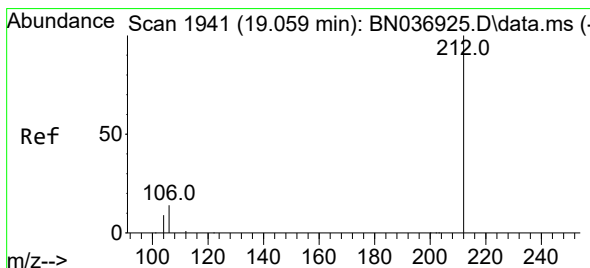
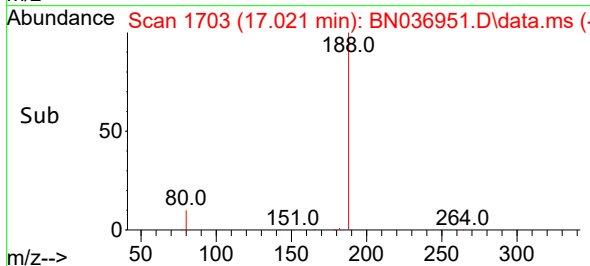
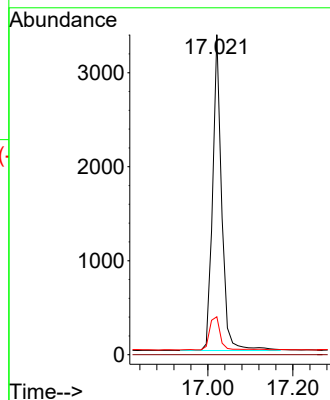
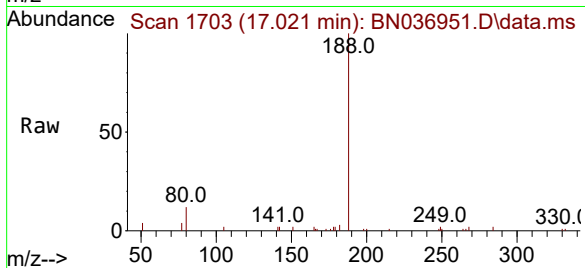
Tgt Ion:188 Resp: 4971

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.8 10.7 16.1



#27

Fluoranthene-d10

Concen: 0.188 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036951.D

Acq: 30 Apr 2025 17:41

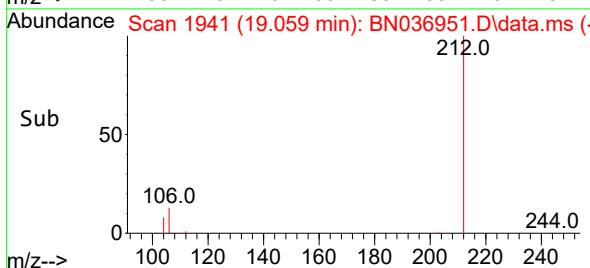
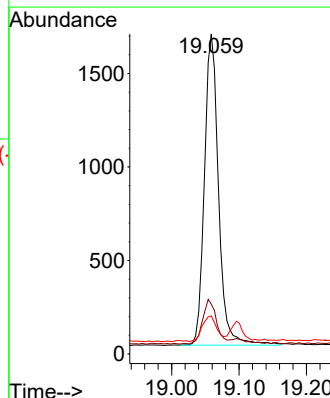
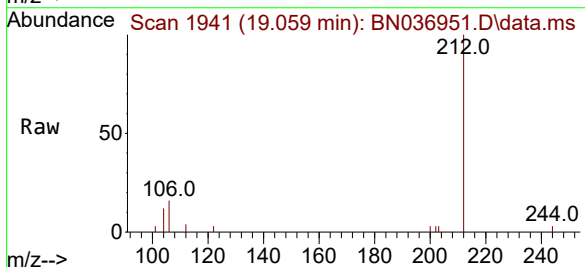
Tgt Ion:212 Resp: 2424

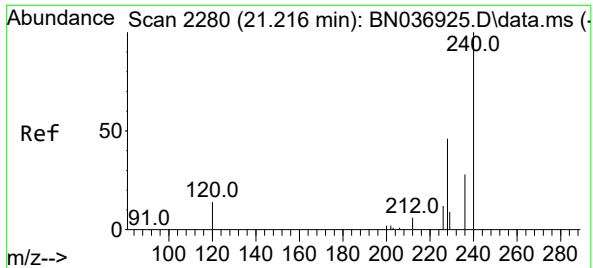
Ion Ratio Lower Upper

212 100

106 14.2 11.6 17.4

104 8.5 7.0 10.4

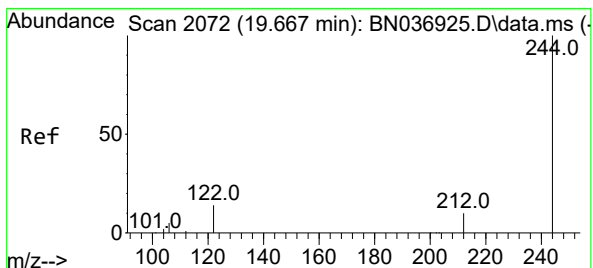
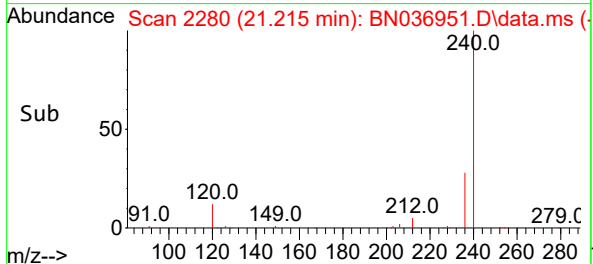
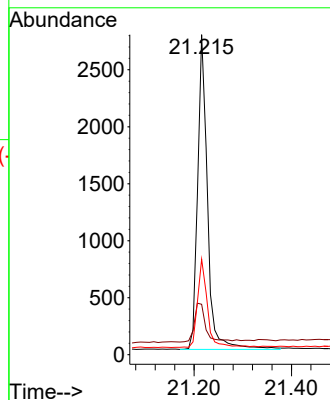
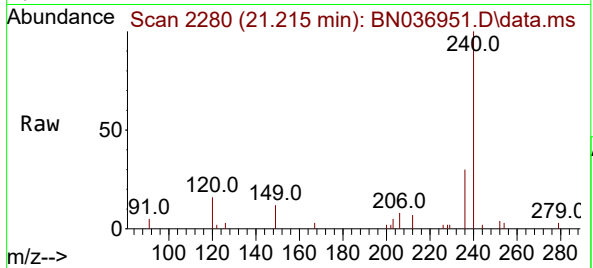




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036951.D
Acq: 30 Apr 2025 17:41

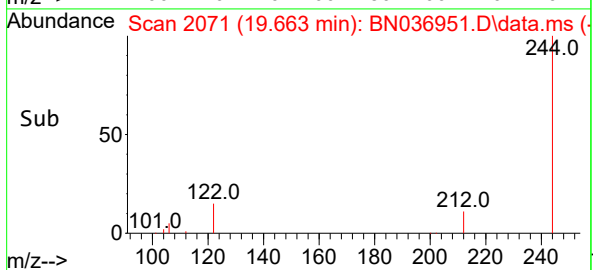
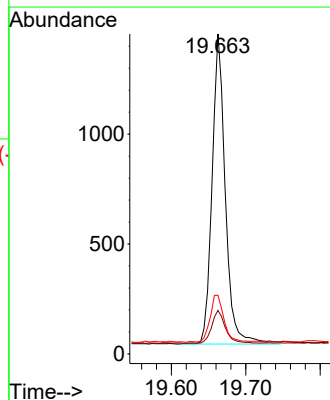
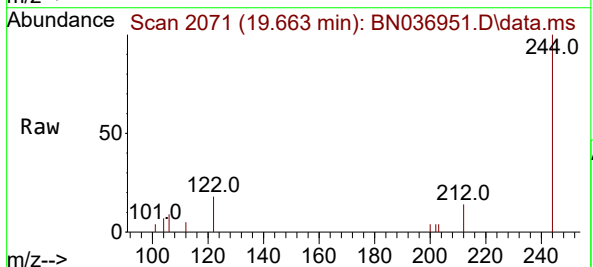
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423DL

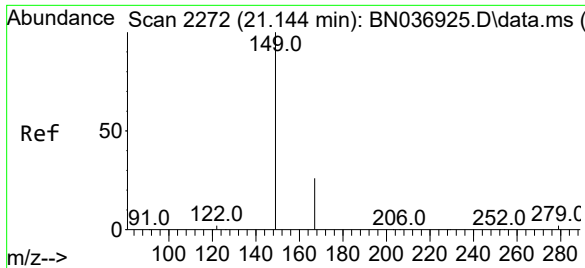
Tgt Ion:240 Resp: 3859
Ion Ratio Lower Upper
240 100
120 15.7 14.1 21.1
236 29.8 23.8 35.8



#31
Terphenyl-d14
Concen: 0.191 ng
RT: 19.663 min Scan# 2071
Delta R.T. -0.005 min
Lab File: BN036951.D
Acq: 30 Apr 2025 17:41

Tgt Ion:244 Resp: 1740
Ion Ratio Lower Upper
244 100
212 13.6 9.6 14.4
122 18.3 12.7 19.1

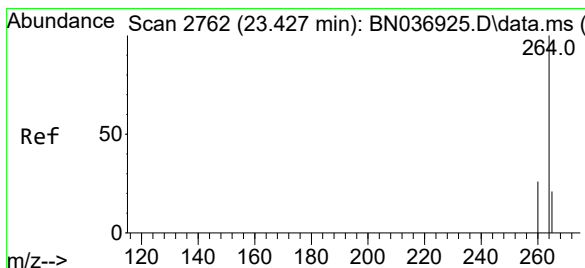
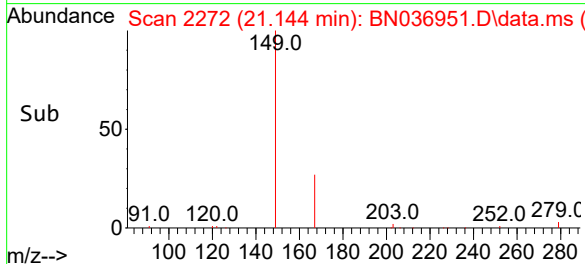
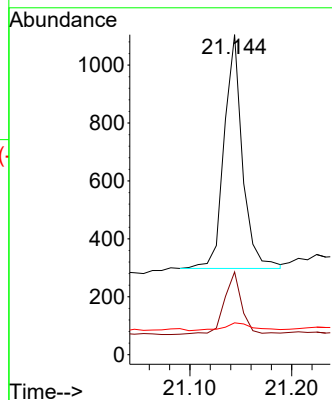
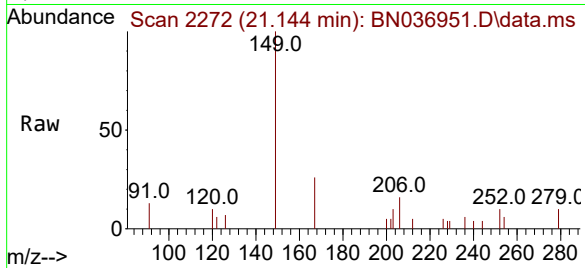




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.125 ng
RT: 21.144 min Scan# 2114
Delta R.T. -0.000 min
Lab File: BN036951.D
Acq: 30 Apr 2025 17:41

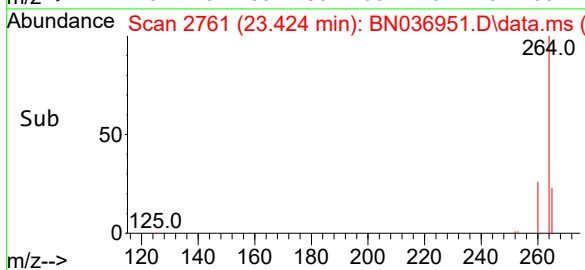
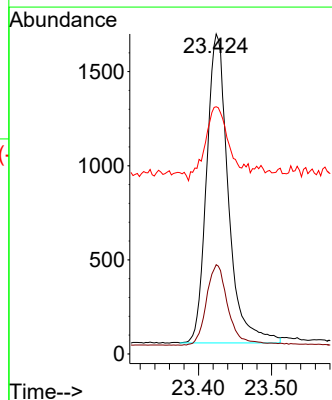
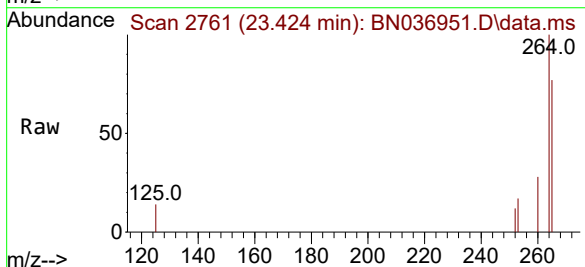
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250423DL

Tgt Ion:149 Resp: 1007
Ion Ratio Lower Upper
149 100
167 25.2 21.0 31.6
279 5.4 2.7 4.1#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.424 min Scan# 2761
Delta R.T. -0.003 min
Lab File: BN036951.D
Acq: 30 Apr 2025 17:41

Tgt Ion:264 Resp: 3394
Ion Ratio Lower Upper
264 100
260 27.9 22.2 33.2
265 77.2 65.8 98.6



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	04/23/25
Project:	NWIRP Bethpage - RW5B CTO WE13 112G08005	Date Received:	04/25/25
Client Sample ID:	RW5-SP201-20250423	SDG No.:	Q1886
Lab Sample ID:	Q1886-02	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
BN036948.D	1	04/28/25 08:50	04/30/25 15:52	PB167760

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	UQ	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1780	7.633				
1146-65-2	Naphthalene-d8	4540	10.415				
15067-26-2	Acenaphthene-d10	2510	14.277				
1517-22-2	Phenanthrene-d10	5100	17.021				
1719-03-5	Chrysene-d12	4280	21.215				
1520-96-3	Perylene-d12	3780	23.424				

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\BN043025\
Data File : BN036948.D
Acq On : 30 Apr 2025 15:52
Operator : RC/JU
Sample : Q1886-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250423

Quant Time: Apr 30 16:39:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

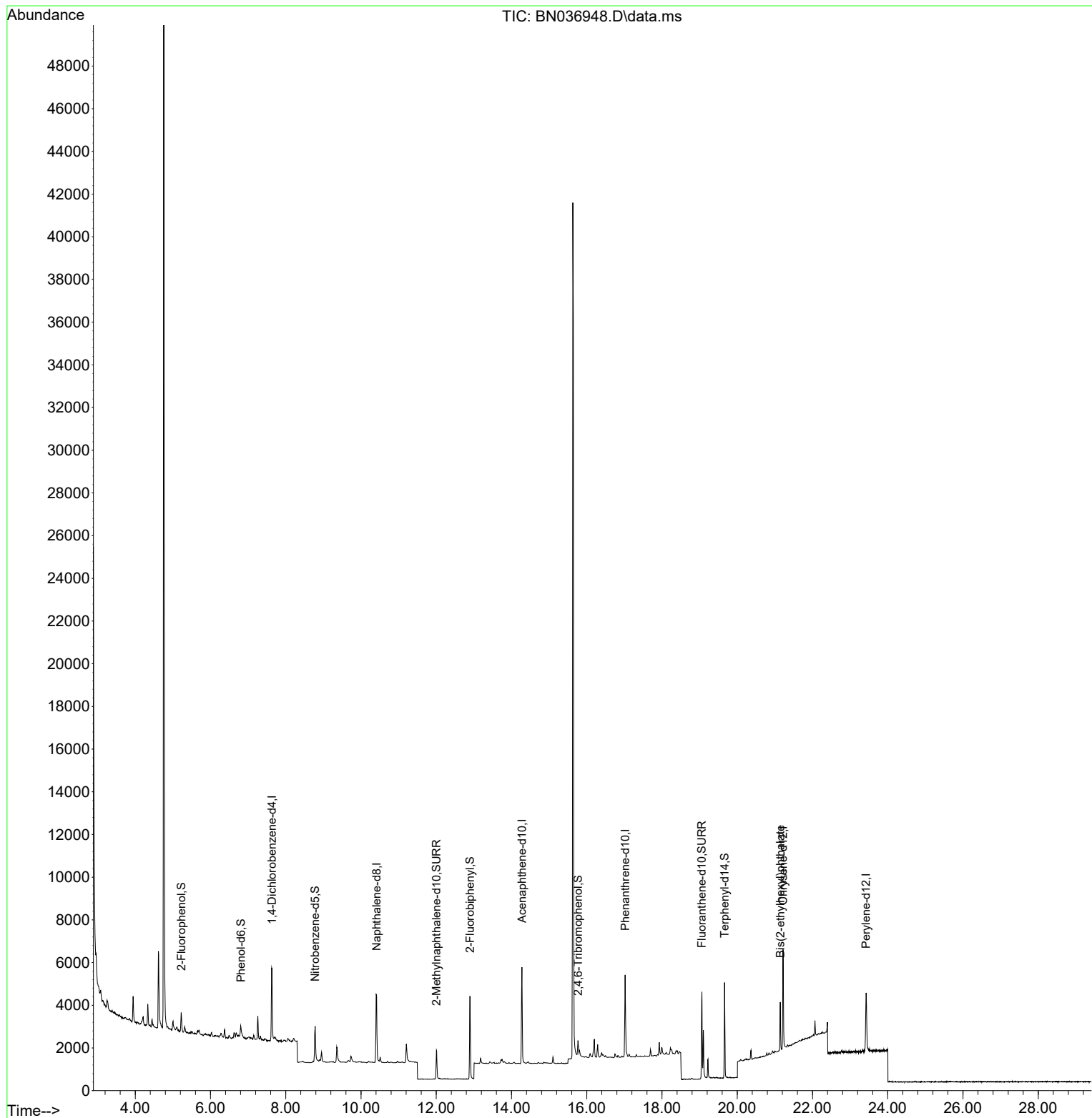
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	1784	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	4537	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	2513	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5104	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4282	0.400	ng	0.00
35) Perylene-d12	23.424	264	3782	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	654	0.143	ng	0.00
5) Phenol-d6	6.809	99	447	0.080	ng	0.00
8) Nitrobenzene-d5	8.781	82	1523	0.321	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	1965	0.310	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	373	0.333	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	4008	0.330	ng	0.00
27) Fluoranthene-d10	19.059	212	4567	0.345	ng	0.00
31) Terphenyl-d14	19.663	244	4024	0.398	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.144	149	2096	0.234	ng	Qvalue # 96

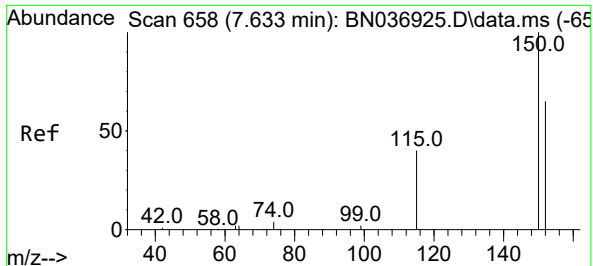
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036948.D
Acq On : 30 Apr 2025 15:52
Operator : RC/JU
Sample : Q1886-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250423

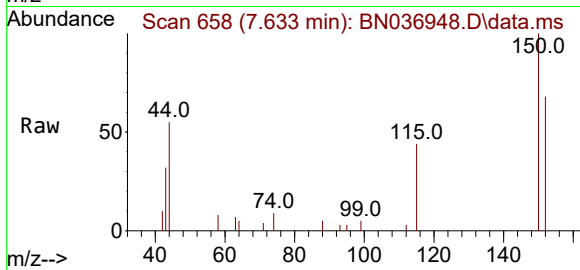
Quant Time: Apr 30 16:39:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



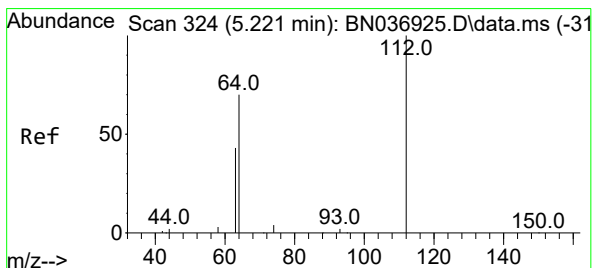
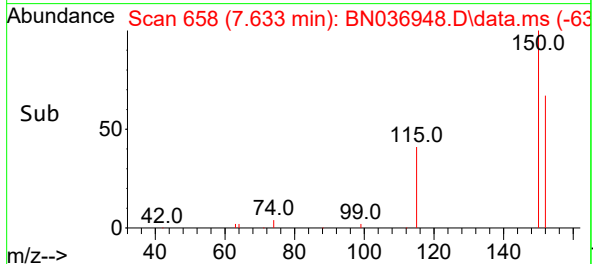
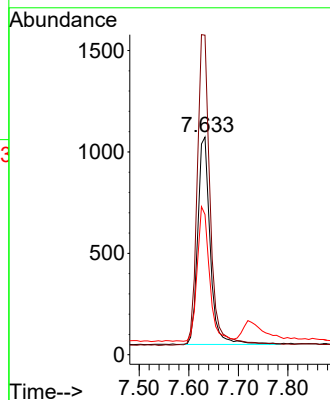


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036948.D
Acq: 30 Apr 2025 15:52

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250423

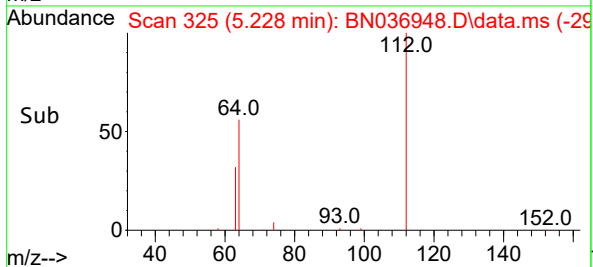
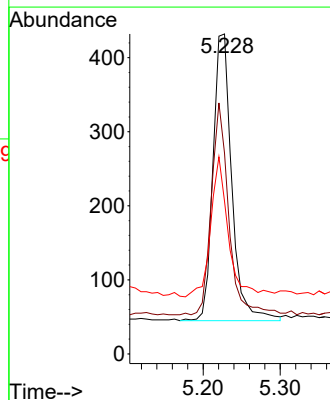
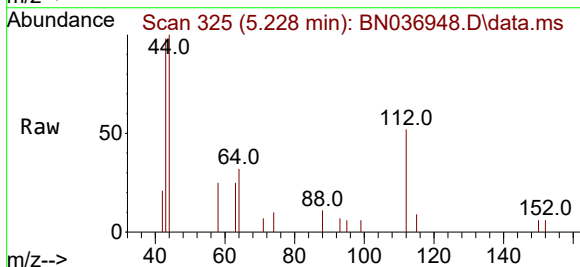


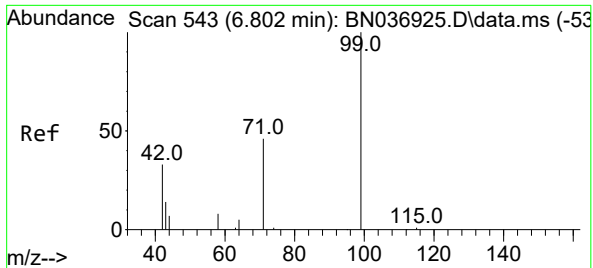
Tgt Ion:152 Resp: 1784
Ion Ratio Lower Upper
152 100
150 146.9 121.1 181.7
115 64.4 51.8 77.6



#4
2-Fluorophenol
Concen: 0.143 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.007 min
Lab File: BN036948.D
Acq: 30 Apr 2025 15:52

Tgt Ion:112 Resp: 654
Ion Ratio Lower Upper
112 100
64 68.2 55.7 83.5
63 46.2 33.9 50.9

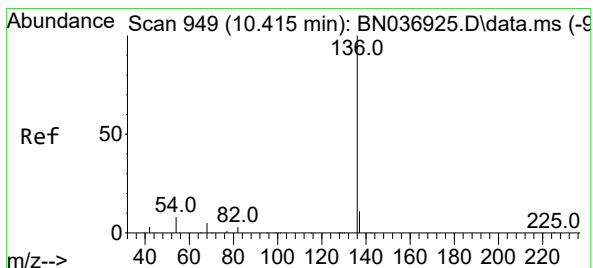
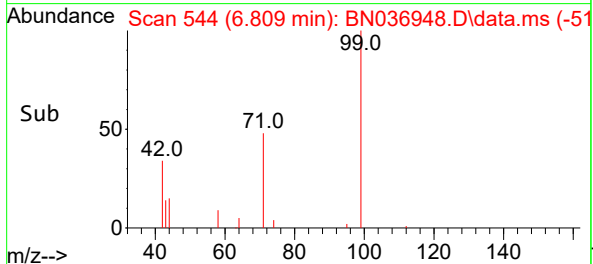
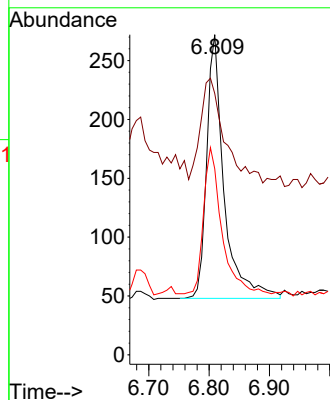
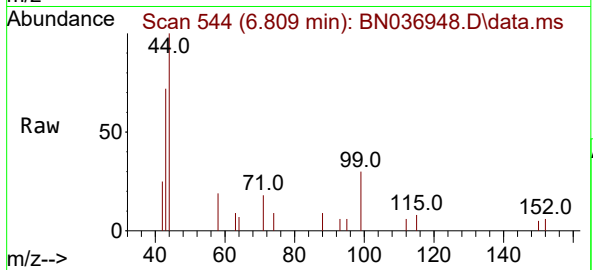




#5
Phenol-d6
Concen: 0.080 ng
RT: 6.809 min Scan# 544
Delta R.T. 0.007 min
Lab File: BN036948.D
Acq: 30 Apr 2025 15:52

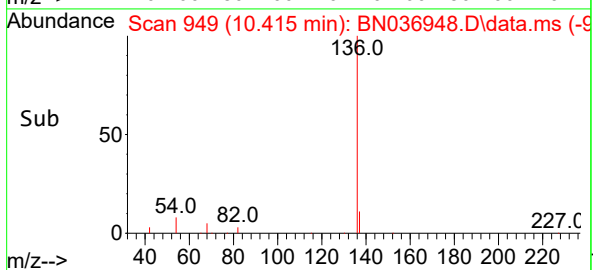
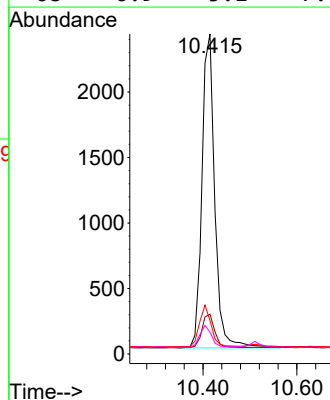
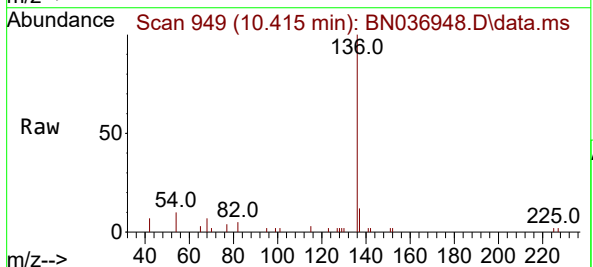
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250423

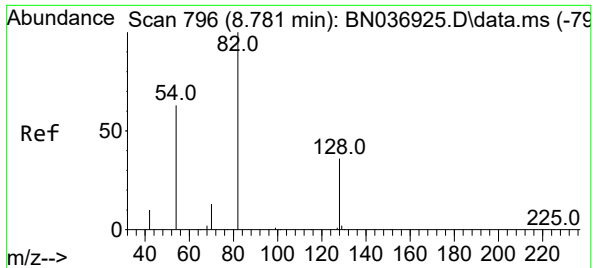
Tgt Ion: 99 Resp: 447
Ion Ratio Lower Upper
99 100
42 49.9 29.6 44.4#
71 60.4 36.0 54.0#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036948.D
Acq: 30 Apr 2025 15:52

Tgt Ion: 136 Resp: 4537
Ion Ratio Lower Upper
136 100
137 12.4 9.7 14.5
54 10.5 8.0 12.0
68 6.9 5.1 7.7

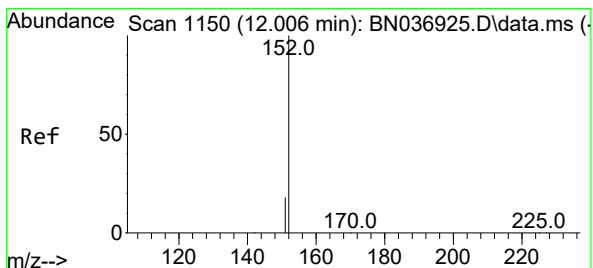
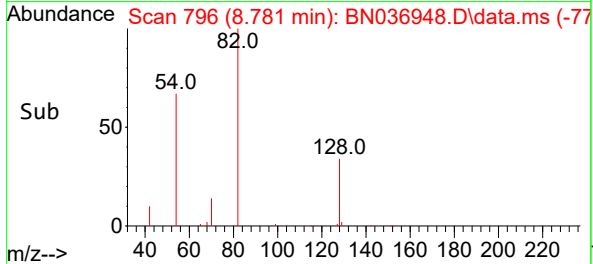
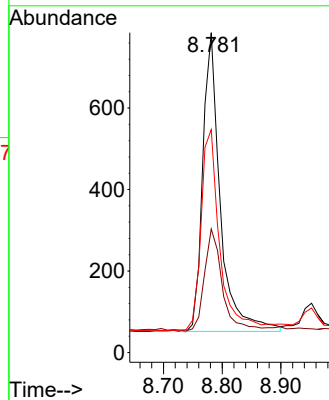
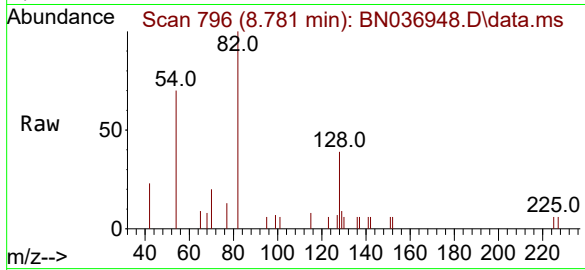




#8
Nitrobenzene-d5
Concen: 0.321 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036948.D
Acq: 30 Apr 2025 15:52

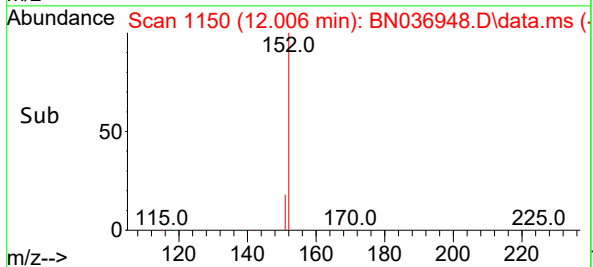
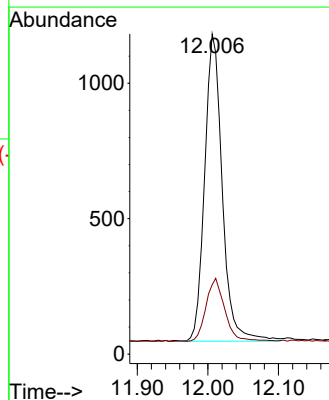
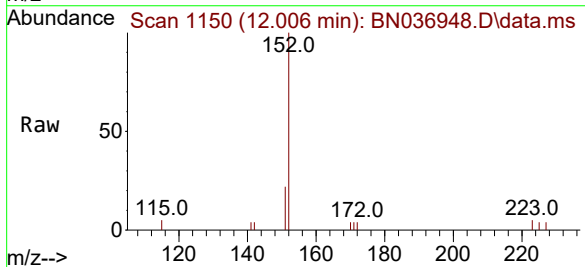
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250423

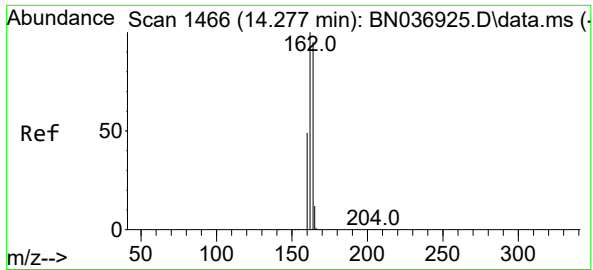
Tgt Ion:	82	Resp:	1523
Ion	Ratio	Lower	Upper
82	100		
128	38.6	30.7	46.1
54	69.7	52.1	78.1



#11
2-Methylnaphthalene-d10
Concen: 0.310 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036948.D
Acq: 30 Apr 2025 15:52

Tgt Ion:	152	Resp:	1965
Ion	Ratio	Lower	Upper
152	100		
151	21.9	16.9	25.3

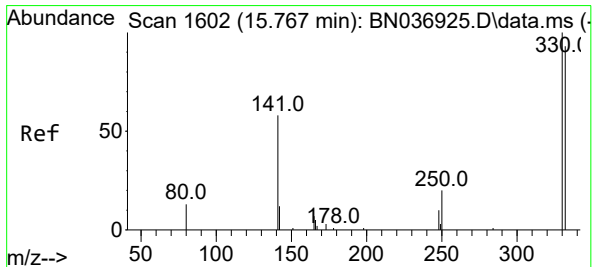
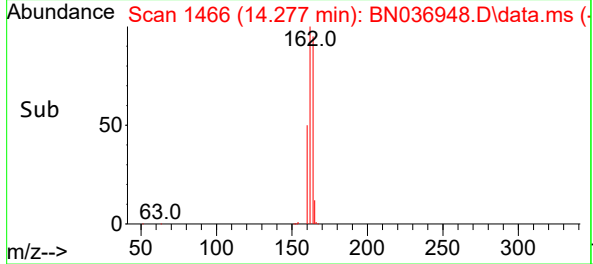
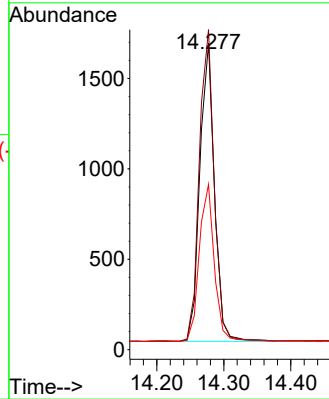
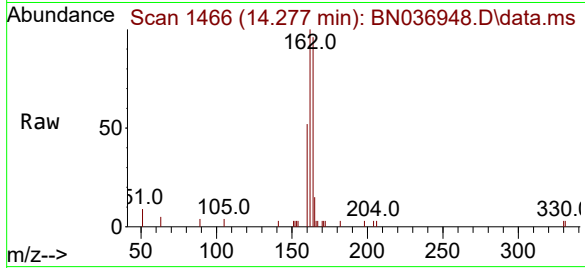




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036948.D
Acq: 30 Apr 2025 15:52

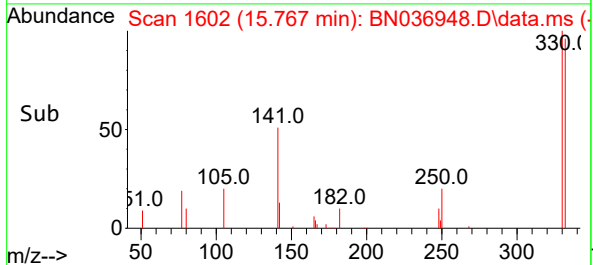
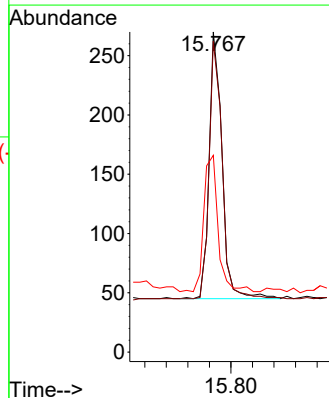
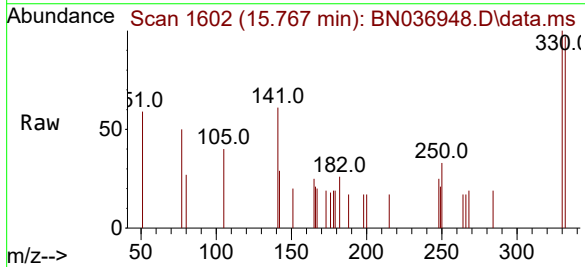
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250423

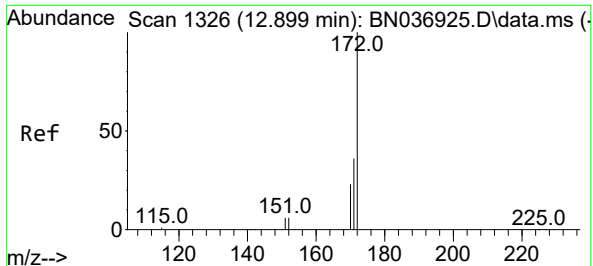
Tgt Ion	164	Resp:	2513
Ion	Ratio	Lower	Upper
164	100		
162	104.4	83.8	125.8
160	53.9	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 0.333 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036948.D
Acq: 30 Apr 2025 15:52

Tgt Ion	330	Resp:	373
Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.3	114.5
141	56.6	45.4	68.2





#15

2-Fluorobiphenyl

Concen: 0.330 ng

RT: 12.899 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036948.D

Acq: 30 Apr 2025 15:52

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-20250423

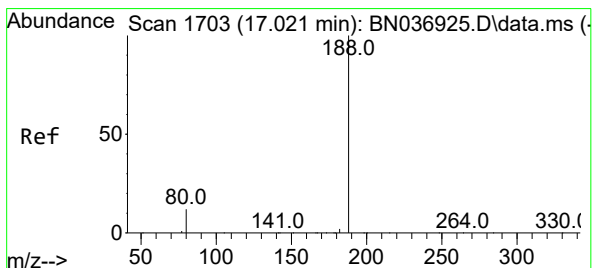
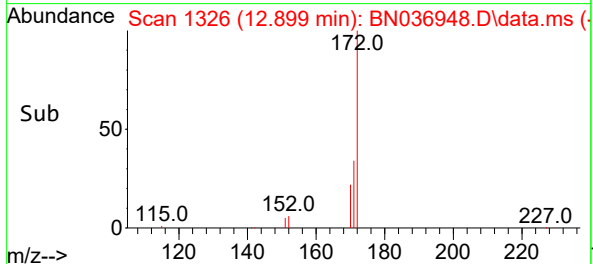
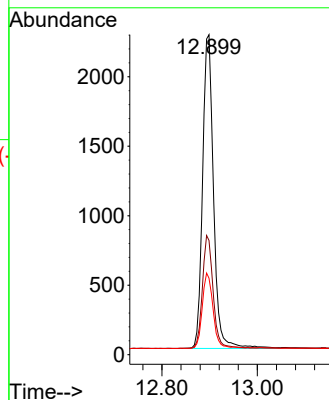
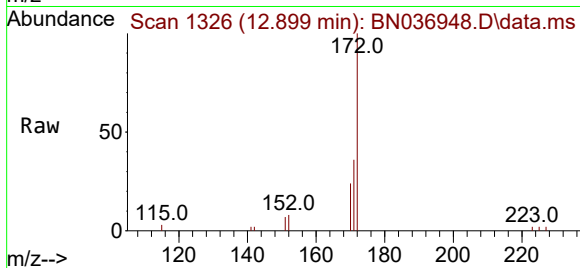
Tgt Ion:172 Resp: 4008

Ion Ratio Lower Upper

172 100

171 35.7 29.4 44.0

170 23.9 19.4 29.0



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1703

Delta R.T. -0.000 min

Lab File: BN036948.D

Acq: 30 Apr 2025 15:52

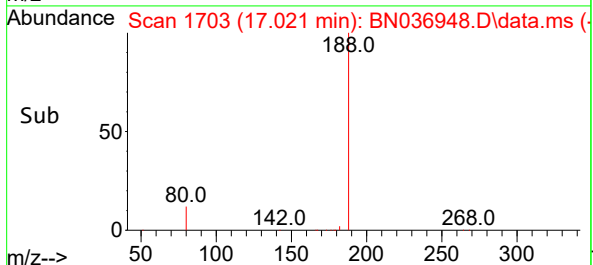
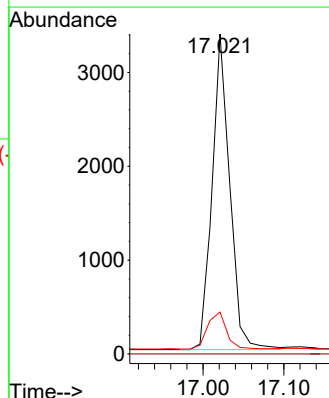
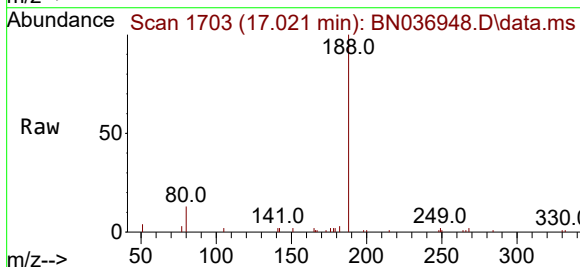
Tgt Ion:188 Resp: 5104

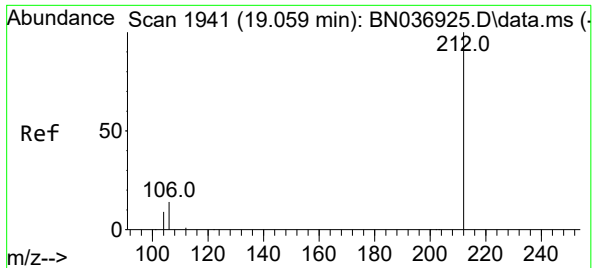
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.1 10.7 16.1





#27

Fluoranthene-d10

Concen: 0.345 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036948.D

Acq: 30 Apr 2025 15:52

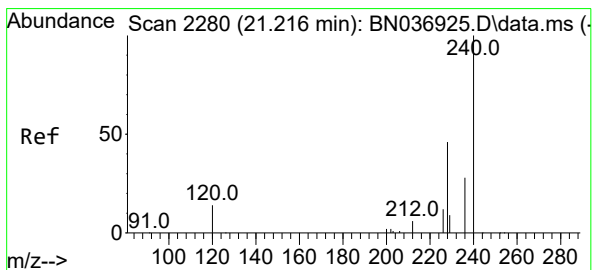
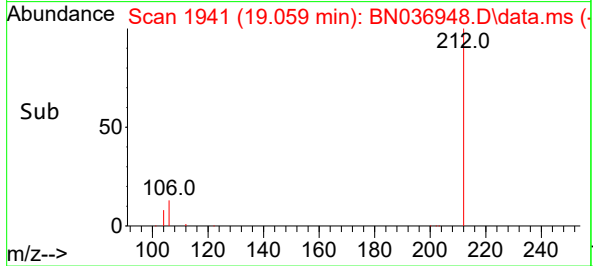
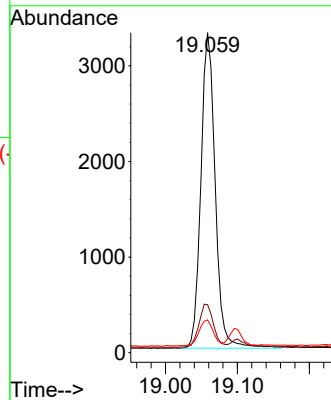
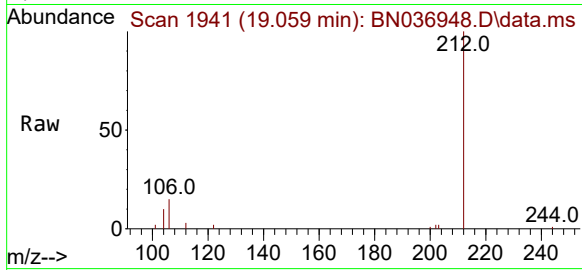
Instrument :

BNA_N

ClientSampleId :

RW5-SP201-20250423

Tgt Ion:212	Resp:	4567
Ion	Ratio	Lower Upper
212	100	
106	14.1	11.6 17.4
104	8.1	7.0 10.4



#29

Chrysene-d12

Concen: 0.400 ng

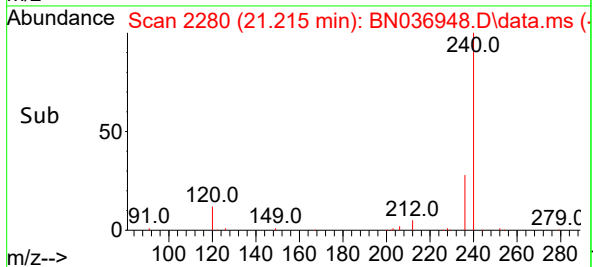
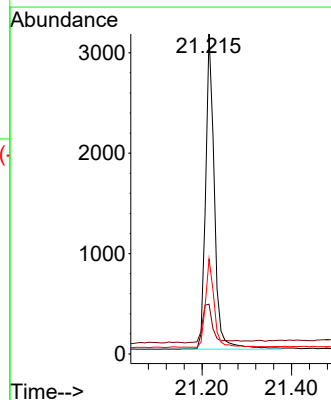
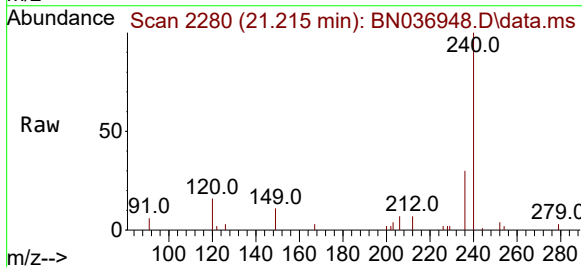
RT: 21.215 min Scan# 2280

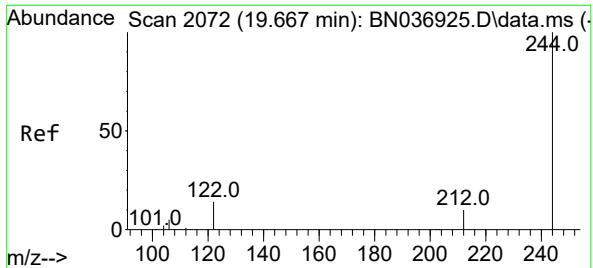
Delta R.T. -0.000 min

Lab File: BN036948.D

Acq: 30 Apr 2025 15:52

Tgt Ion:240	Resp:	4282
Ion	Ratio	Lower Upper
240	100	
120	15.5	14.1 21.1
236	29.7	23.8 35.8

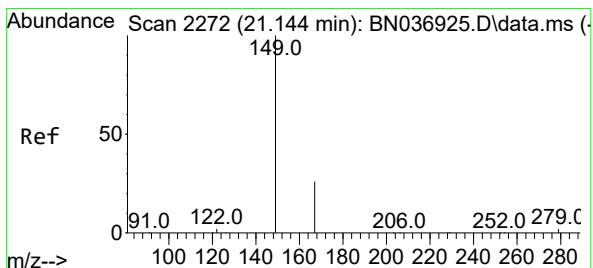
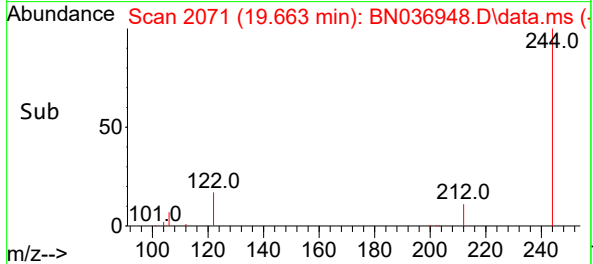
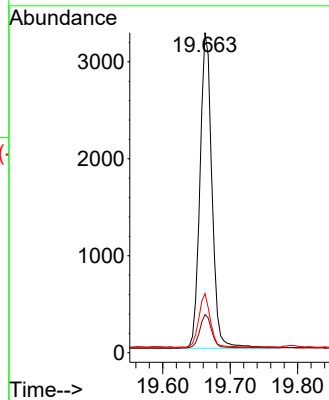
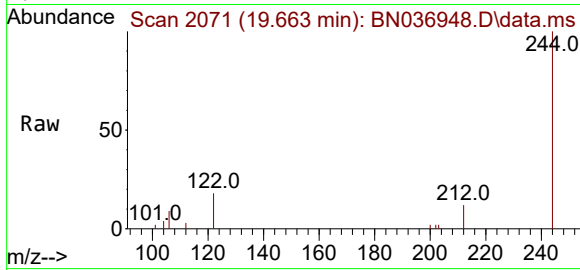




#31
Terphenyl-d14
Concen: 0.398 ng
RT: 19.663 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036948.D
Acq: 30 Apr 2025 15:52

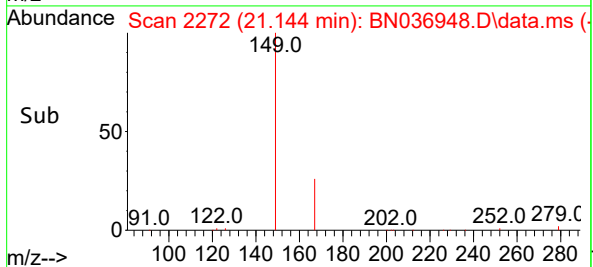
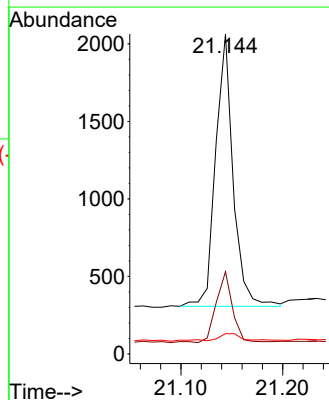
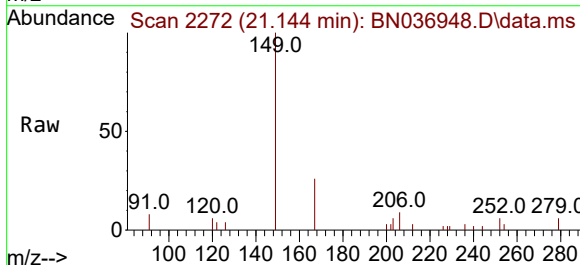
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250423

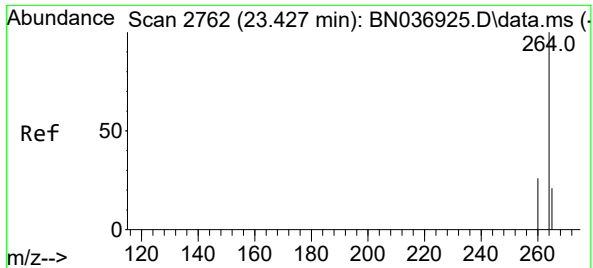
Tgt Ion:244 Resp: 4024
Ion Ratio Lower Upper
244 100
212 11.9 9.6 14.4
122 18.4 12.7 19.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.234 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036948.D
Acq: 30 Apr 2025 15:52

Tgt Ion:149 Resp: 2096
Ion Ratio Lower Upper
149 100
167 24.4 21.0 31.6
279 4.5 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.424 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036948.D

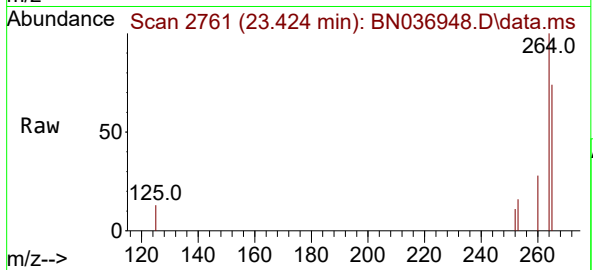
Acq: 30 Apr 2025 15:52

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-20250423



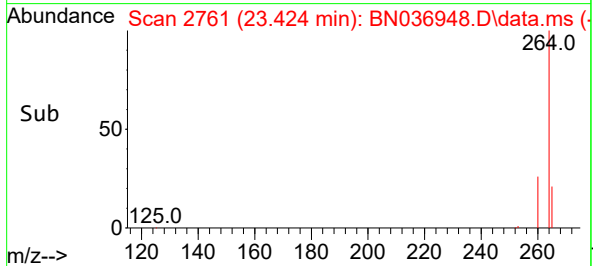
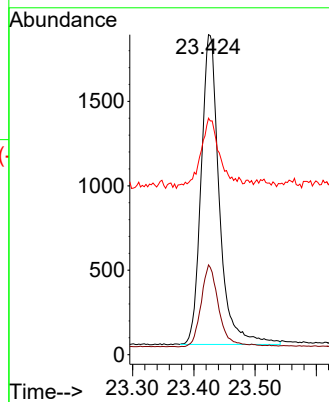
Tgt Ion:264 Resp: 3782

Ion	Ratio	Lower	Upper

264	100		

260	28.0	22.2	33.2

265	73.9	65.8	98.6



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	04/23/25
Project:	NWIRP Bethpage - RW5B CTO WE13 112G08005	Date Received:	04/25/25
Client Sample ID:	RW5-SP303-20250423	SDG No.:	Q1886
Lab Sample ID:	Q1886-03	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
BN036949.D	1	04/28/25 08:50	04/30/25 16:28	PB167760

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	UQ	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.26		53 - 106		66%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.33		58 - 132		83%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1940	7.633				
1146-65-2	Naphthalene-d8	4850	10.415				
15067-26-2	Acenaphthene-d10	2710	14.277				
1517-22-2	Phenanthrene-d10	5600	17.021				
1719-03-5	Chrysene-d12	4530	21.216				
1520-96-3	Perylene-d12	3930	23.424				

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\BN043025\
Data File : BN036949.D
Acq On : 30 Apr 2025 16:28
Operator : RC/JU
Sample : Q1886-03
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250423

Quant Time: Apr 30 16:57:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

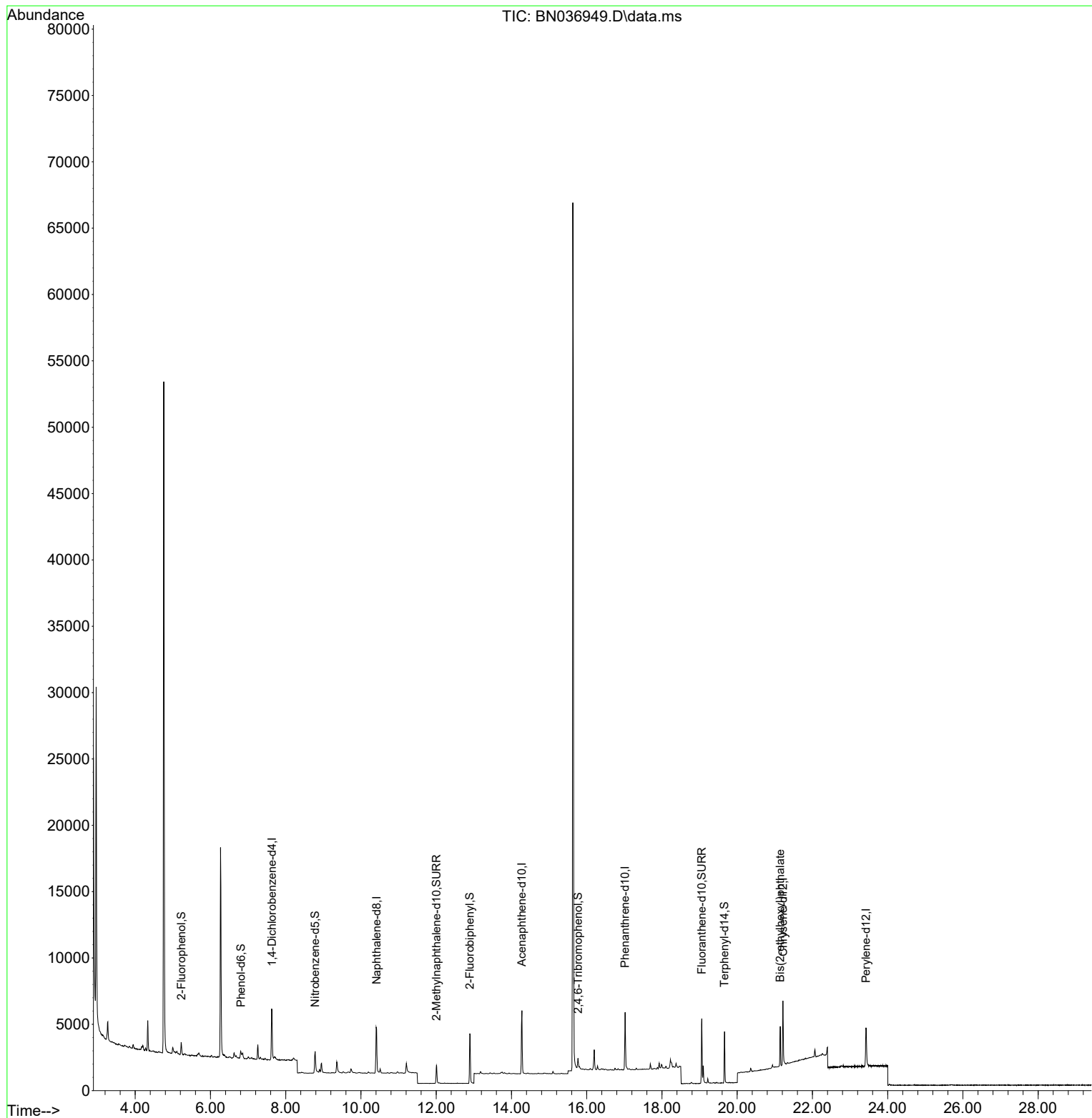
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	1937	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	4854	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	2711	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5602	0.400	ng	0.00
29) Chrysene-d12	21.216	240	4527	0.400	ng	0.00
35) Perylene-d12	23.424	264	3928	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	646	0.130	ng	0.00
5) Phenol-d6	6.810	99	452	0.074	ng	0.00
8) Nitrobenzene-d5	8.782	82	1547	0.305	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	1965	0.289	ng	0.00
14) 2,4,6-Tribromophenol	15.768	330	407	0.337	ng	0.00
15) 2-Fluorobiphenyl	12.894	172	3453	0.264	ng	0.00
27) Fluoranthene-d10	19.059	212	5322	0.366	ng	0.00
31) Terphenyl-d14	19.663	244	3573	0.334	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.144	149	2698	0.284	ng	99

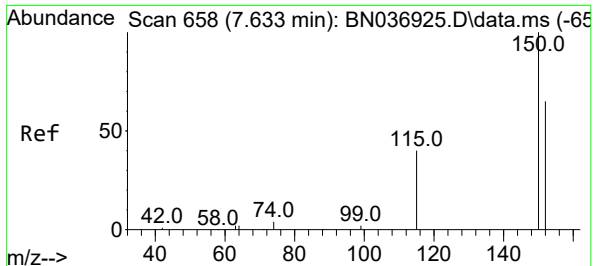
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036949.D
Acq On : 30 Apr 2025 16:28
Operator : RC/JU
Sample : Q1886-03
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250423

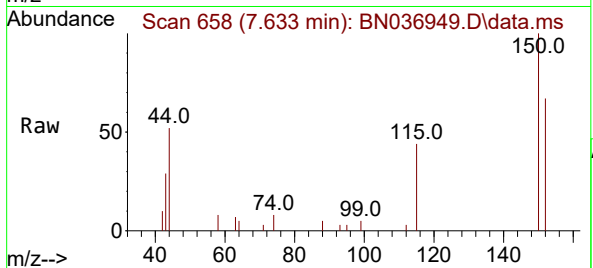
Quant Time: Apr 30 16:57:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



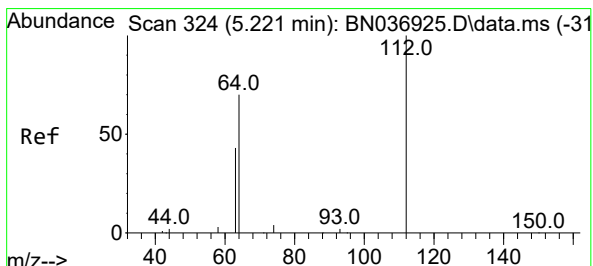
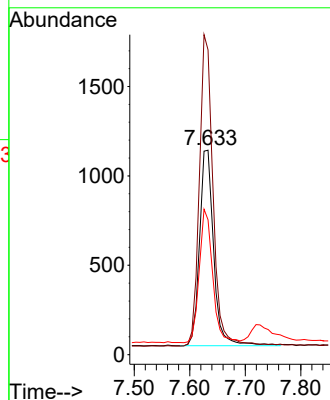
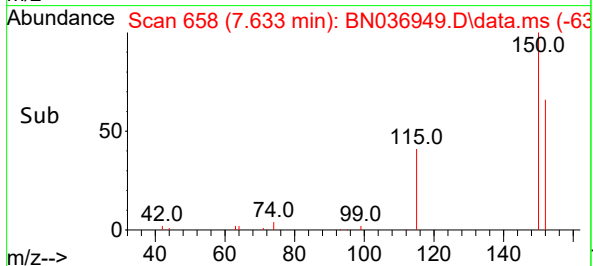


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036949.D
Acq: 30 Apr 2025 16:28

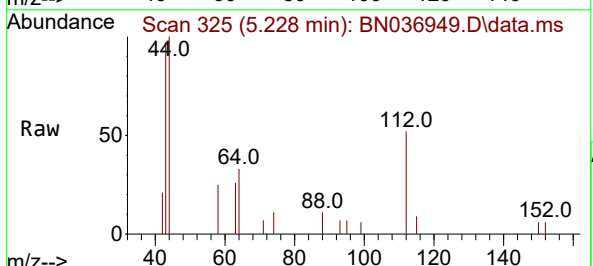
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250423



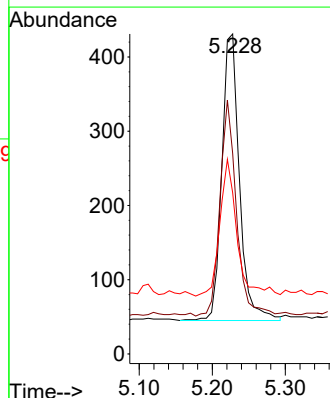
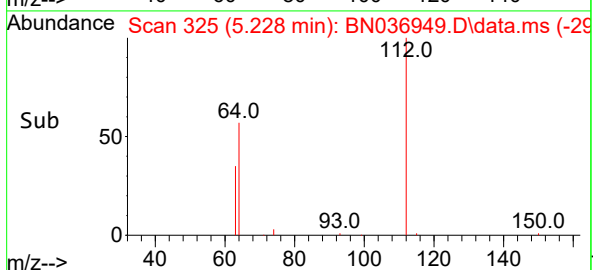
Tgt Ion:152 Resp: 1937
Ion Ratio Lower Upper
152 100
150 149.0 121.1 181.7
115 65.9 51.8 77.6

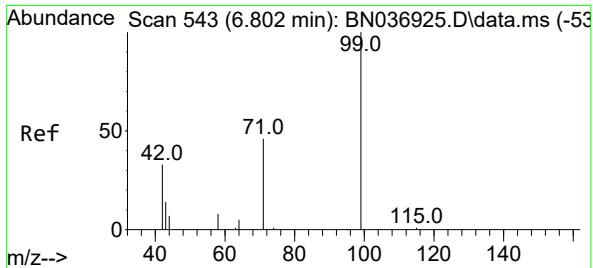


#4
2-Fluorophenol
Concen: 0.130 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.007 min
Lab File: BN036949.D
Acq: 30 Apr 2025 16:28



Tgt Ion:112 Resp: 646
Ion Ratio Lower Upper
112 100
64 71.2 55.7 83.5
63 46.3 33.9 50.9

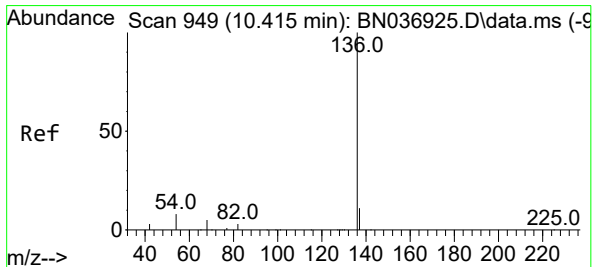
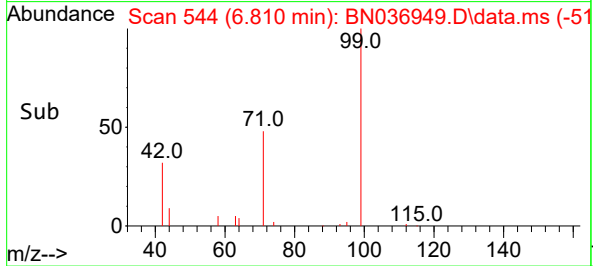
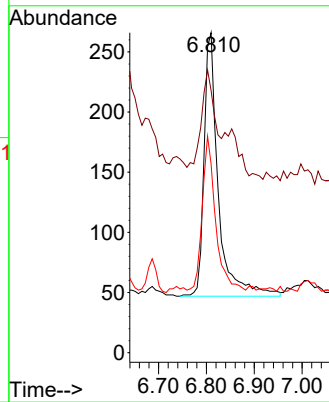
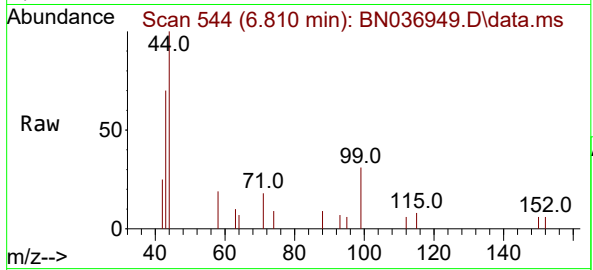




#5
Phenol-d6
Concen: 0.074 ng
RT: 6.810 min Scan# 543
Delta R.T. 0.007 min
Lab File: BN036949.D
Acq: 30 Apr 2025 16:28

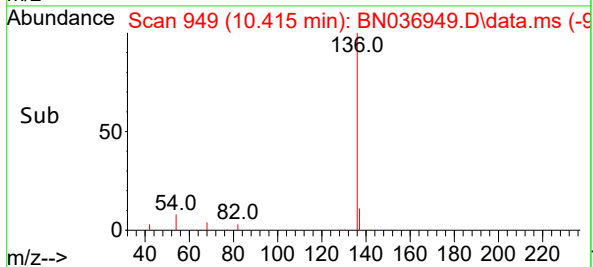
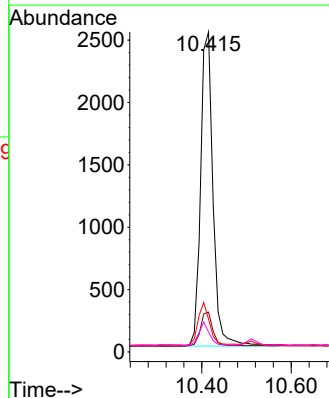
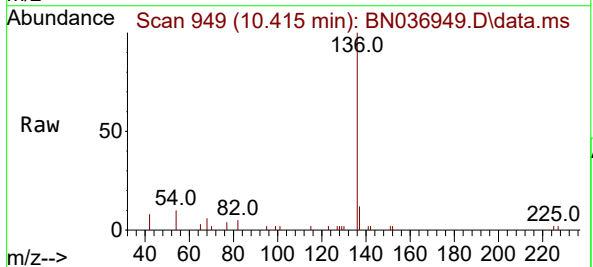
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250423

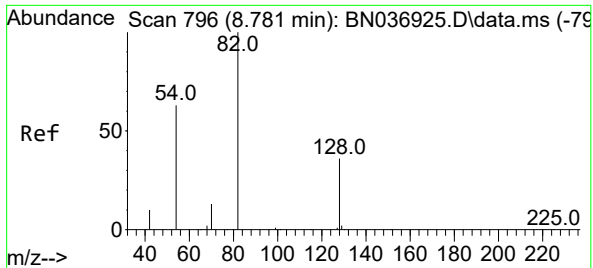
Tgt Ion	Ratio	Lower	Upper
99	100		
42	34.3	29.6	44.4
71	53.5	36.0	54.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. 0.000 min
Lab File: BN036949.D
Acq: 30 Apr 2025 16:28

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.5	9.7	14.5
54	10.2	8.0	12.0
68	6.3	5.1	7.7

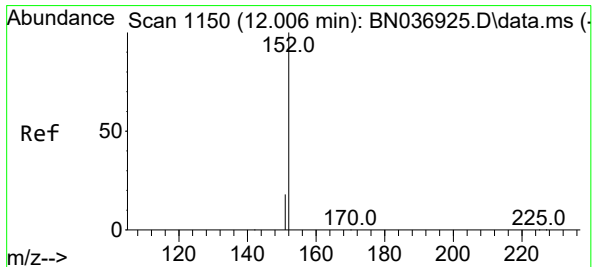
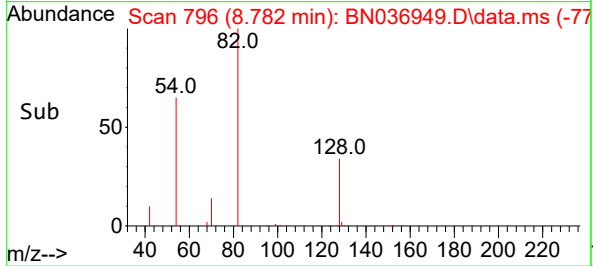
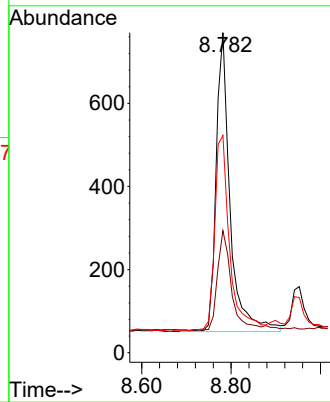
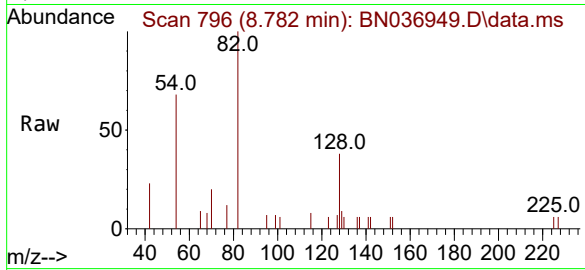




#8
Nitrobenzene-d5
Concen: 0.305 ng
RT: 8.782 min Scan# 796
Delta R.T. 0.000 min
Lab File: BN036949.D
Acq: 30 Apr 2025 16:28

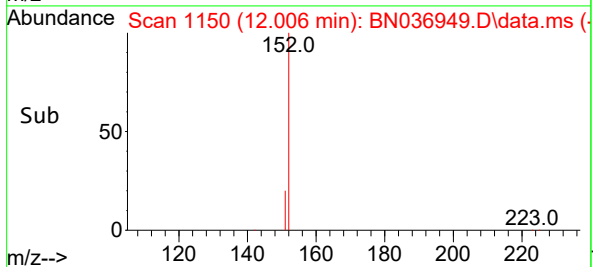
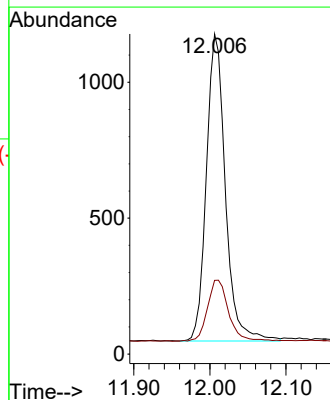
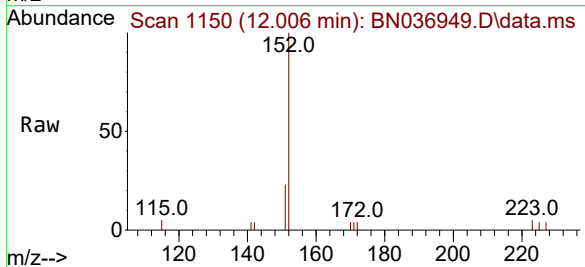
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250423

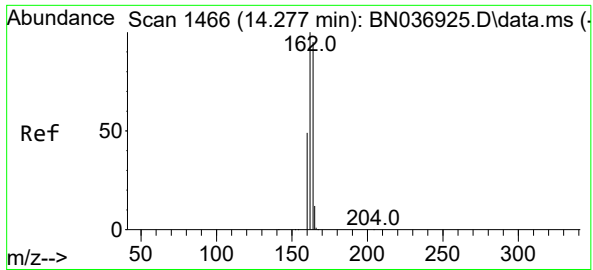
Tgt Ion:	82	Resp:	1547
Ion Ratio	Lower	Upper	
82	100		
128	38.2	30.7	46.1
54	67.9	52.1	78.1



#11
2-Methylnaphthalene-d10
Concen: 0.289 ng
RT: 12.006 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BN036949.D
Acq: 30 Apr 2025 16:28

Tgt Ion:	152	Resp:	1965
Ion Ratio	Lower	Upper	
152	100		
151	22.5	16.9	25.3

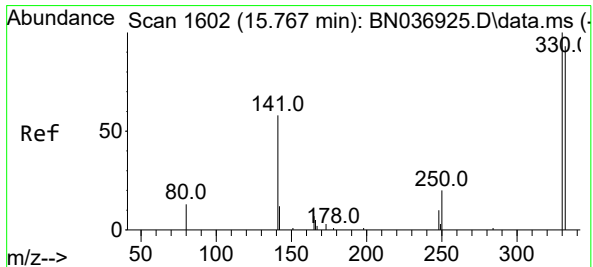
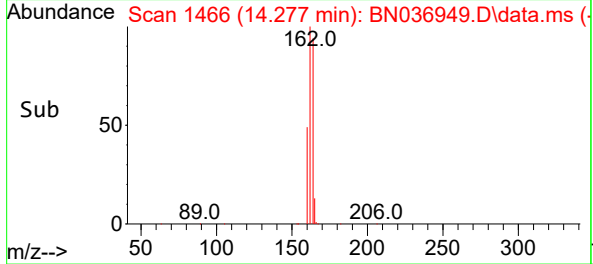
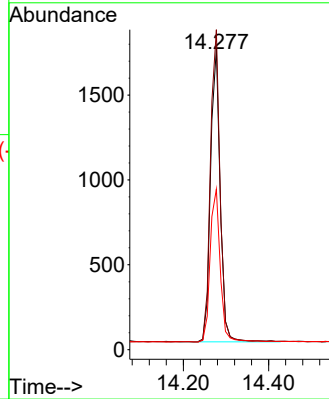
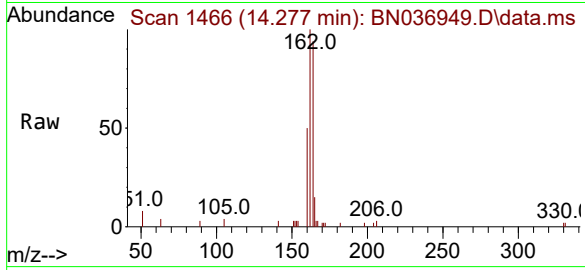




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN036949.D
Acq: 30 Apr 2025 16:28

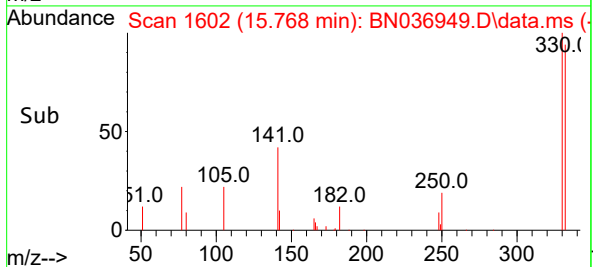
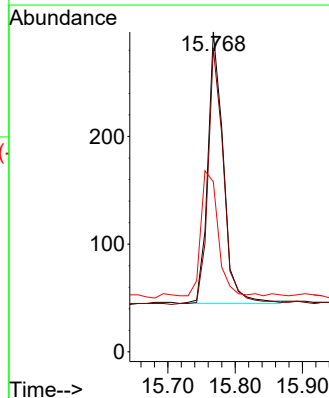
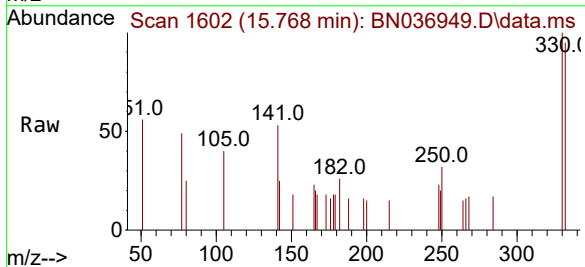
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250423

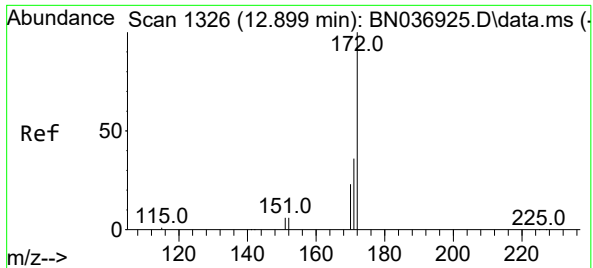
Tgt Ion:	164	Resp:	2711
Ion	Ratio	Lower	Upper
164	100		
162	106.3	83.8	125.8
160	53.3	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 0.337 ng
RT: 15.768 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036949.D
Acq: 30 Apr 2025 16:28

Tgt Ion:	330	Resp:	407
Ion	Ratio	Lower	Upper
330	100		
332	95.6	76.3	114.5
141	56.0	45.4	68.2

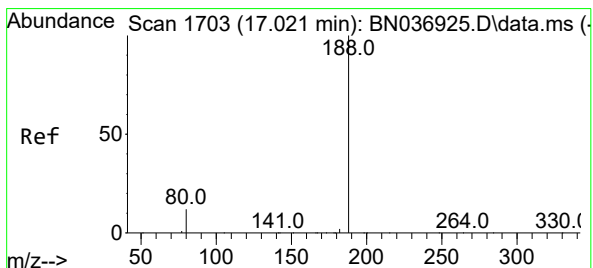
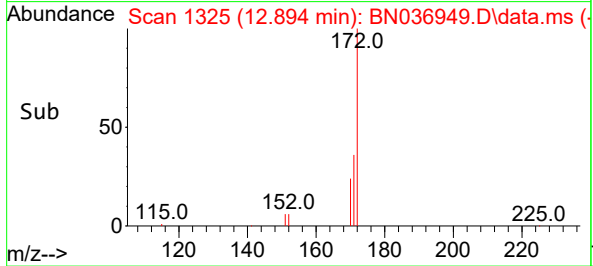
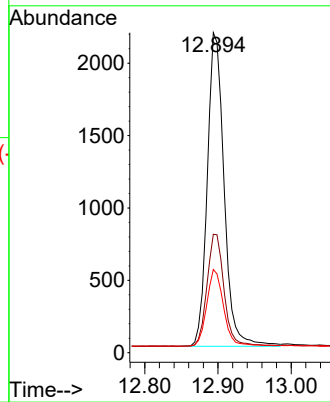
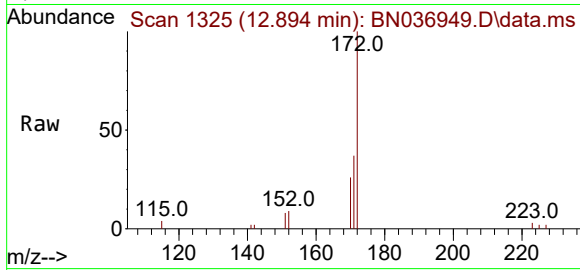




#15
2-Fluorobiphenyl
Concen: 0.264 ng
RT: 12.894 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036949.D
Acq: 30 Apr 2025 16:28

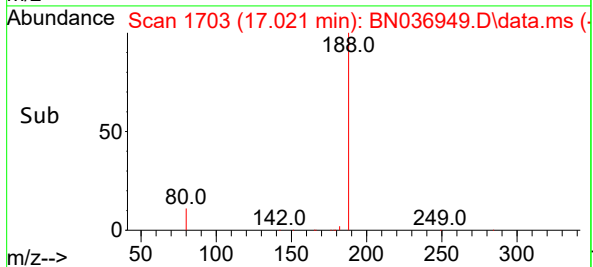
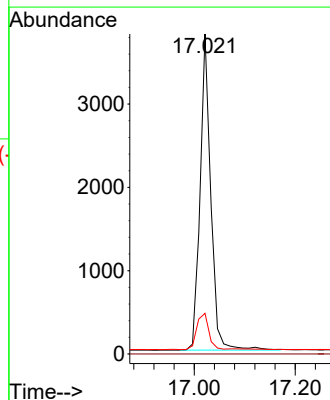
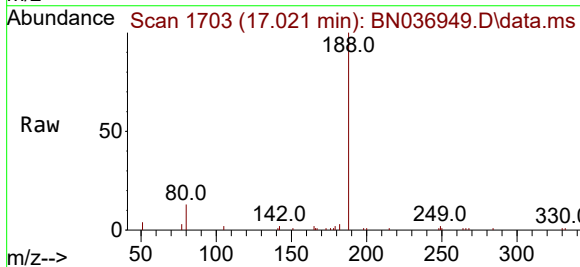
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250423

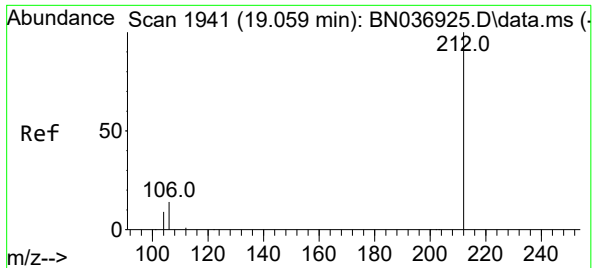
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.0	29.4	44.0
170	26.0	19.4	29.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN036949.D
Acq: 30 Apr 2025 16:28

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.7	10.7	16.1





#27

Fluoranthene-d10

Concen: 0.366 ng

RT: 19.059 min Scan# 1941

Delta R.T. 0.000 min

Lab File: BN036949.D

Acq: 30 Apr 2025 16:28

Instrument :

BNA_N

ClientSampleId :

RW5-SP303-20250423

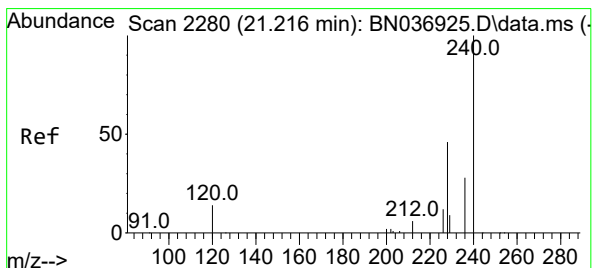
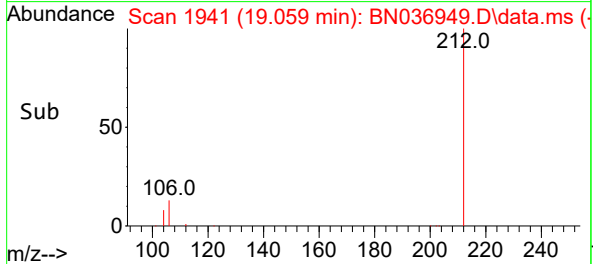
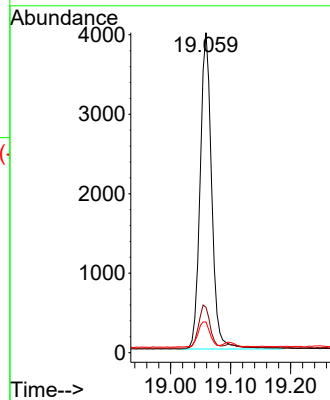
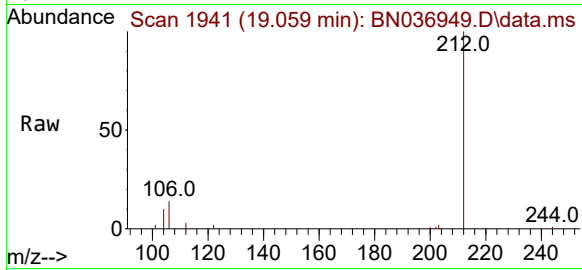
Tgt Ion:212 Resp: 5322

Ion Ratio Lower Upper

212 100

106 13.5 11.6 17.4

104 8.5 7.0 10.4



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.216 min Scan# 2280

Delta R.T. 0.000 min

Lab File: BN036949.D

Acq: 30 Apr 2025 16:28

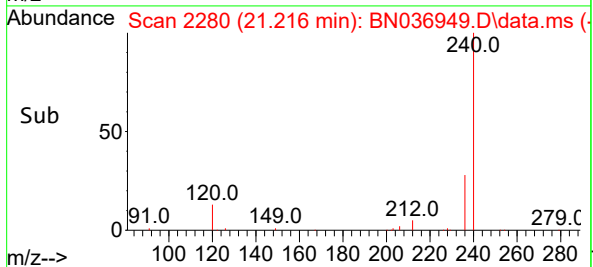
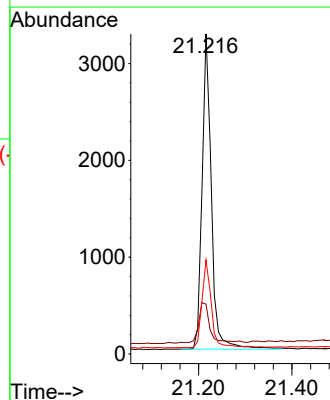
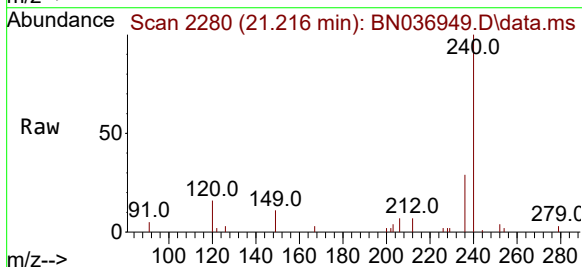
Tgt Ion:240 Resp: 4527

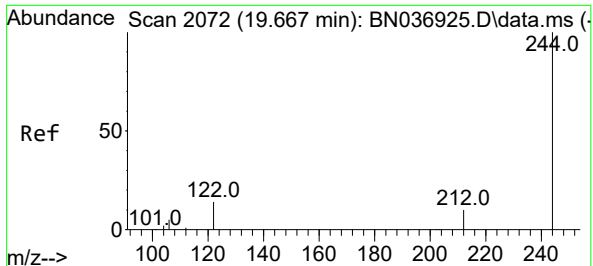
Ion Ratio Lower Upper

240 100

120 15.6 14.1 21.1

236 29.3 23.8 35.8

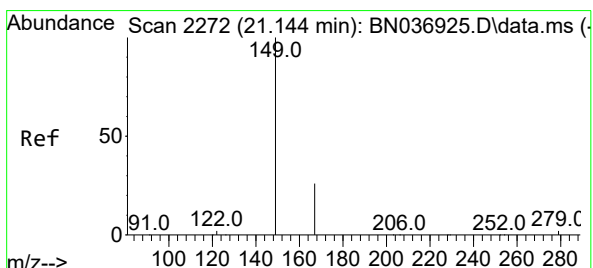
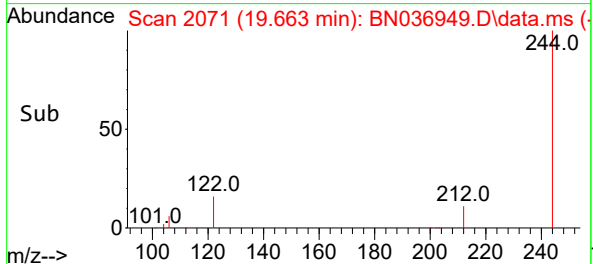
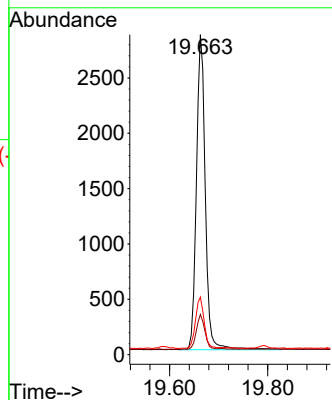
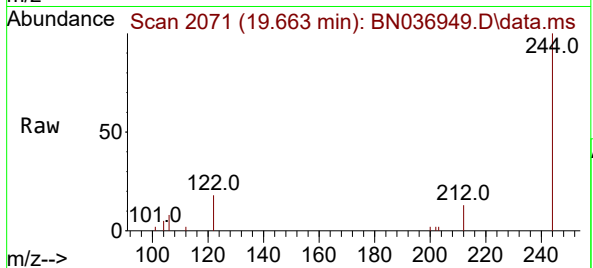




#31
Terphenyl-d14
Concen: 0.334 ng
RT: 19.663 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036949.D
Acq: 30 Apr 2025 16:28

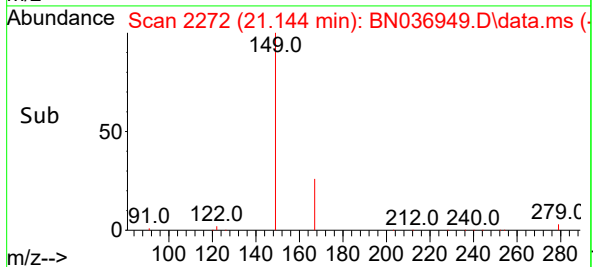
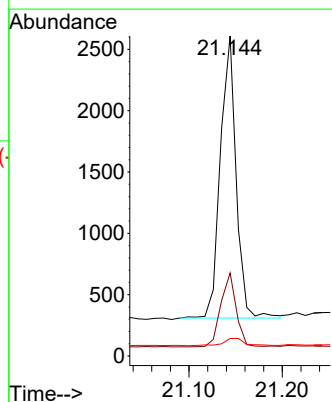
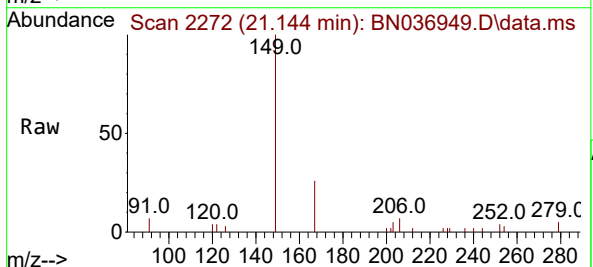
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250423

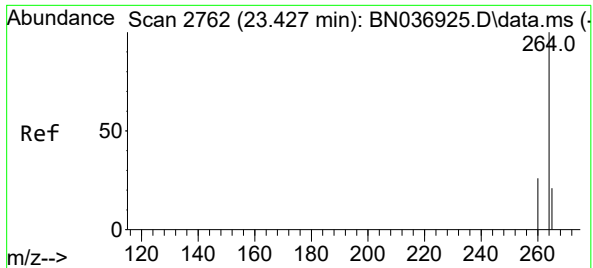
Tgt Ion:244 Resp: 3573
Ion Ratio Lower Upper
244 100
212 12.6 9.6 14.4
122 18.0 12.7 19.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.284 ng
RT: 21.144 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN036949.D
Acq: 30 Apr 2025 16:28

Tgt Ion:149 Resp: 2698
Ion Ratio Lower Upper
149 100
167 25.6 21.0 31.6
279 3.4 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.424 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036949.D

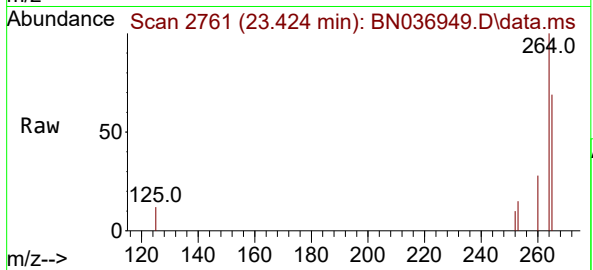
Acq: 30 Apr 2025 16:28

Instrument :

BNA_N

ClientSampleId :

RW5-SP303-20250423



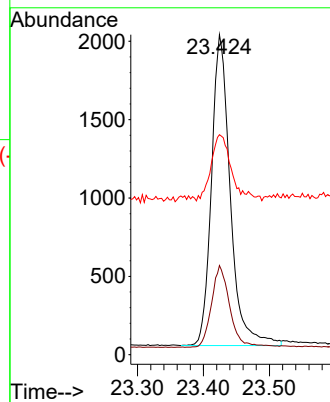
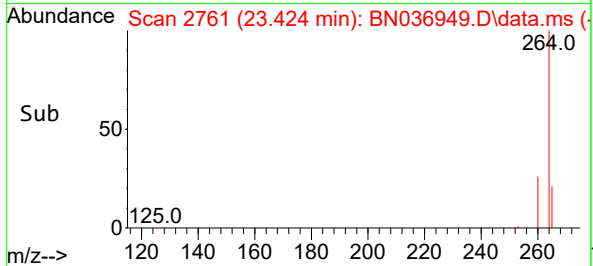
Tgt Ion:264 Resp: 3928

Ion Ratio Lower Upper

264 100

260 27.9 22.2 33.2

265 68.8 65.8 98.6





CALIBRATION SUMMARY

- 1
- 2
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- 18

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN042825.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon Apr 28 15:35:03 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036923.D 0.2 =BN036924.D 0.4 =BN036925.D 0.8 =BN036926.D 1.6 =BN036927.D 3.2 =BN036928.D 5.0 =BN036929.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.452	0.489	0.551	0.506	0.537	0.489	0.465	0.498	7.23
3)	n-Nitrosodimet...	0.903	0.998	1.010	0.957	1.034	0.952	0.918	0.967	5.01
4) S	2-Fluorophenol	1.050	1.056	1.118	0.946	1.040	0.982	0.970	1.023	5.86
5) S	Phenol-d6	1.270	1.237	1.337	1.151	1.294	1.255	1.272	1.259	4.57
6)	bis(2-Chloroet...	1.174	1.123	1.170	1.139	1.240	1.162	1.162	1.167	3.17
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.400	0.401	0.411	0.404	0.446	0.432	0.436	0.418	4.52
9)	Naphthalene	1.155	1.147	1.155	1.132	1.225	1.170	1.165	1.164	2.56
10)	Hexachlorobuta...	0.260	0.250	0.253	0.249	0.262	0.248	0.240	0.252	2.99
11) SURR2	Methylnaphth...	0.540	0.532	0.541	0.543	0.596	0.575	0.589	0.559	4.75
12)	2-Methylnaphth...	0.716	0.713	0.719	0.735	0.804	0.782	0.798	0.753	5.41
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.156	0.173	0.177	0.175	0.187	0.184	0.196	0.178	7.18
15) S	2-Fluorobiphenyl	1.877	1.975	2.055	1.690	2.023	1.986	1.928	1.933	6.32
16)	Acenaphthylene	1.876	1.850	1.907	1.884	2.067	2.035	2.066	1.955	4.93
17)	Acenaphthene	1.264	1.270	1.275	1.248	1.333	1.295	1.305	1.284	2.22
18)	Fluorene	1.604	1.612	1.624	1.658	1.788	1.720	1.752	1.680	4.39
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.083	0.090	0.096	0.113	0.120	0.134	0.106		18.55
21)	4-Bromophenyl-...	0.260	0.263	0.262	0.260	0.282	0.272	0.270	0.267	3.11
22)	Hexachlorobenzene	0.301	0.289	0.300	0.280	0.303	0.293	0.282	0.293	3.18
23)	Atrazine	0.193	0.198	0.199	0.217	0.227	0.226	0.248	0.215	9.20
24)	Pentachlorophenol	0.160	0.136	0.144	0.145	0.163	0.168	0.181	0.157	10.06
25)	Phenanthrene	1.309	1.274	1.299	1.280	1.387	1.346	1.347	1.320	3.13
26)	Anthracene	1.131	1.108	1.147	1.138	1.275	1.261	1.299	1.194	6.74
27) SURR	Fluoranthene-d10	0.993	1.004	0.991	1.016	1.087	1.053	1.115	1.037	4.74
28)	Fluoranthene	1.387	1.380	1.399	1.471	1.578	1.530	1.613	1.480	6.46
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.919	1.942	1.958	1.802	2.073	1.969	1.823	1.927	4.77
31) S	Terphenyl-d14	0.974	0.942	0.946	0.893	1.005	0.952	0.897	0.944	4.22
32)	Benzo(a)anthra...	1.402	1.407	1.429	1.422	1.583	1.509	1.561	1.473	5.19
33)	Chrysene	1.517	1.576	1.637	1.582	1.700	1.572	1.536	1.589	3.91
34)	Bis(2-ethylhex...	0.949	0.847	0.834	0.784	0.804	0.782	0.866	0.838	6.96
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN042825.M

36)	Indeno(1,2,3-c...	1.595	1.571	1.712	1.503	1.720	1.724	1.609	1.634	5.29
37)	Benzo(b)fluora...	1.580	1.552	1.634	1.628	1.796	1.758	1.825	1.682	6.50
38)	Benzo(k)fluora...	1.601	1.569	1.648	1.641	1.812	1.784	1.785	1.691	5.89
39) C	Benzo(a)pyrene	1.315	1.301	1.361	1.315	1.463	1.447	1.477	1.383	5.57
40)	Dibenzo(a,h)an...	1.229	1.241	1.349	1.176	1.357	1.379	1.268	1.286	5.96
41)	Benzo(g,h,i)pe...	1.459	1.405	1.515	1.305	1.495	1.470	1.339	1.427	5.61

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036923.D
 Acq On : 28 Apr 2025 11:35
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025

Quant Time: Apr 28 15:11:53 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Apr 28 15:11:09 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2671	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6571	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3486	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6515	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4809	0.400	ng	0.00
35) Perylene-d12	23.427	264	4185	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	701	0.102	ng	0.00
5) Phenol-d6	6.802	99	848	0.101	ng	0.00
8) Nitrobenzene-d5	8.781	82	657	0.096	ng	0.00
11) 2-Methylnaphthalene-d10	12.011	152	887	0.097	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	136	0.089	ng	0.00
15) 2-Fluorobiphenyl	12.898	172	1636	0.097	ng	0.00
27) Fluoranthene-d10	19.059	212	1617	0.097	ng	0.00
31) Terphenyl-d14	19.662	244	1171	0.102	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	302m	0.090	ng	Qvalue
3) n-Nitrosodimethylamine	3.473	42	603	0.093	ng	# 92
6) bis(2-Chloroethyl)ether	7.062	93	784	0.101	ng	98
9) Naphthalene	10.458	128	1897	0.099	ng	# 93
10) Hexachlorobutadiene	10.756	225	427	0.102	ng	# 99
12) 2-Methylnaphthalene	12.082	142	1176	0.096	ng	98
16) Acenaphthylene	13.999	152	1635	0.097	ng	100
17) Acenaphthene	14.341	154	1102	0.099	ng	98
18) Fluorene	15.325	166	1398	0.096	ng	99
21) 4-Bromophenyl-phenylether	16.227	248	424	0.098	ng	95
22) Hexachlorobenzene	16.338	284	490	0.102	ng	97
23) Atrazine	16.500	200	314	0.092	ng	# 92
24) Pentachlorophenol	16.686	266	261	0.105	ng	92
25) Phenanthrene	17.058	178	2132	0.099	ng	98
26) Anthracene	17.157	178	1842	0.096	ng	100
28) Fluoranthene	19.091	202	2259	0.095	ng	97
30) Pyrene	19.453	202	2307	0.099	ng	98
32) Benzo(a)anthracene	21.197	228	1685	0.096	ng	96
33) Chrysene	21.251	228	1824	0.095	ng	96
34) Bis(2-ethylhexyl)phtha...	21.144	149	1141	0.114	ng	99
36) Indeno(1,2,3-cd)pyrene	25.646	276	1669	0.097	ng	99
37) Benzo(b)fluoranthene	22.763	252	1653	0.095	ng	# 66
38) Benzo(k)fluoranthene	22.810	252	1675	0.096	ng	# 63
39) Benzo(a)pyrene	23.330	252	1376	0.096	ng	# 61
40) Dibenzo(a,h)anthracene	25.658	278	1286	0.095	ng	# 70
41) Benzo(g,h,i)perylene	26.324	276	1527	0.101	ng	# 86

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

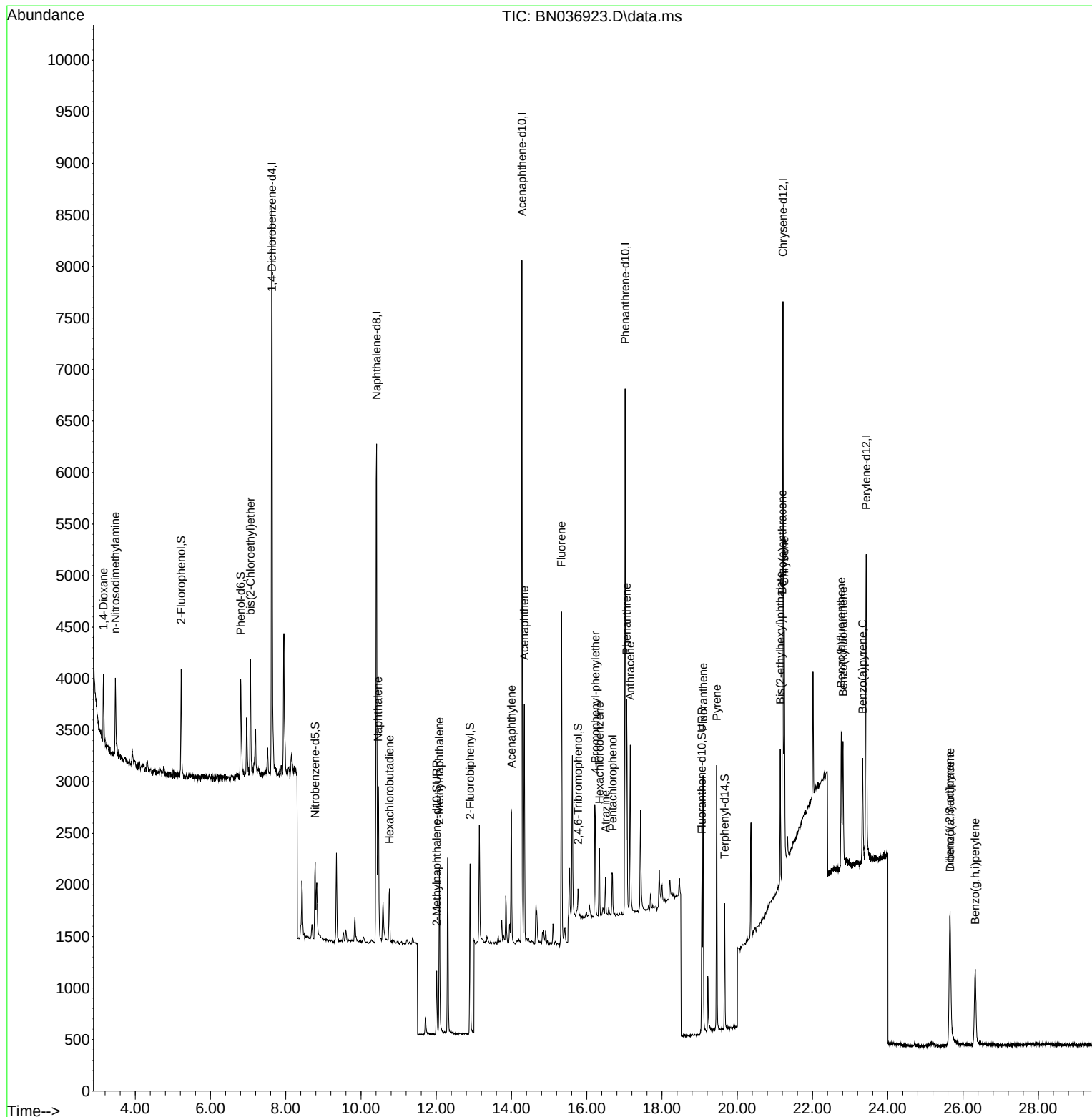
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036923.D
Acq On : 28 Apr 2025 11:35
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

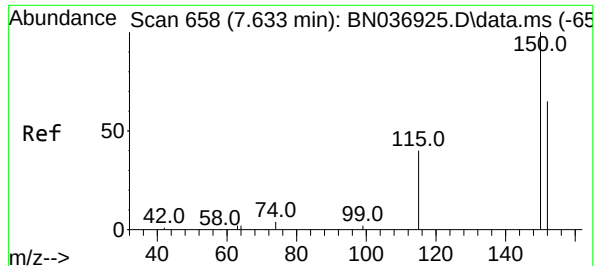
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
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Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

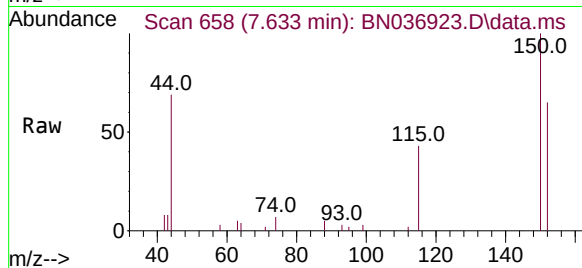
Quant Time: Apr 28 15:11:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

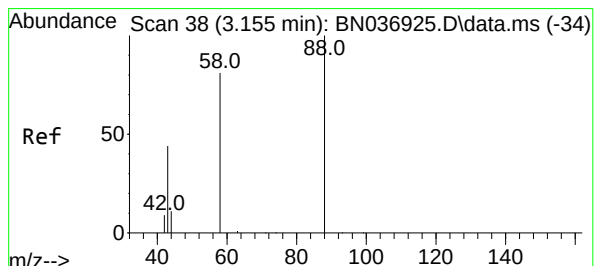
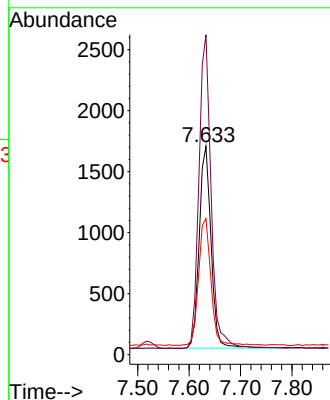
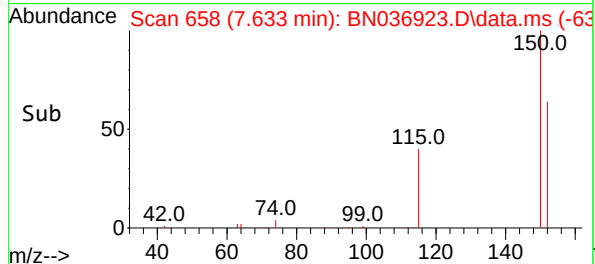
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 152 Resp: 267
Ion Ratio Lower Upper
152 100
150 153.7 121.1 181.7
115 65.4 51.8 77.6

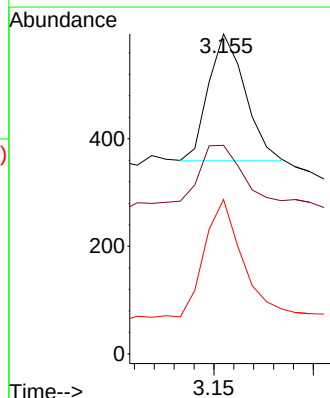
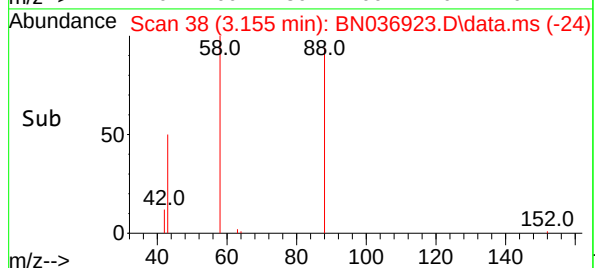
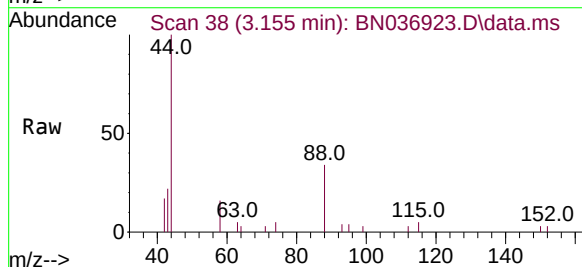
Manual Integrations
APPROVED

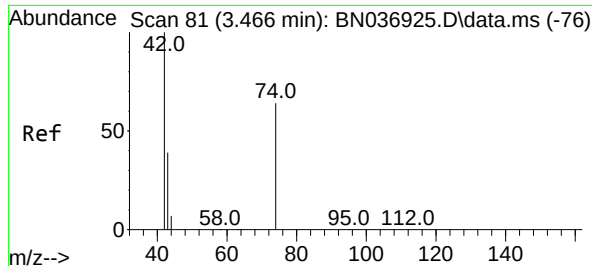
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#2
1,4-Dioxane
Concen: 0.090 ng m
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion: 88 Resp: 302
Ion Ratio Lower Upper
88 100
43 74.8 37.9 56.9#
58 106.0 65.8 98.6#





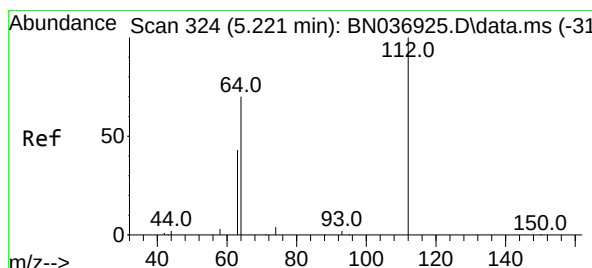
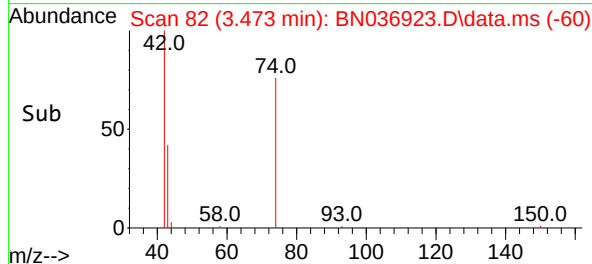
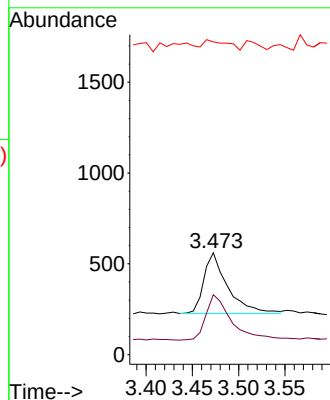
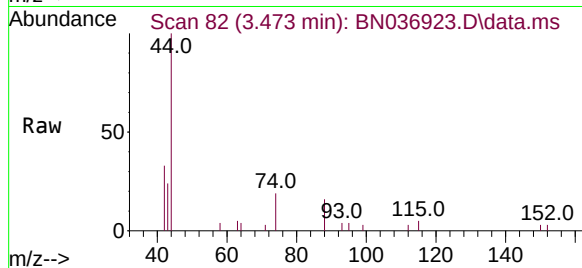
#3
n-Nitrosodimethylamine
Concen: 0.093 ng
RT: 3.473 min Scan# 81
Delta R.T. 0.007 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 600
Ion Ratio Lower Upper
42 100
74 80.8 59.9 89.9
44 15.4 7.5 11.3

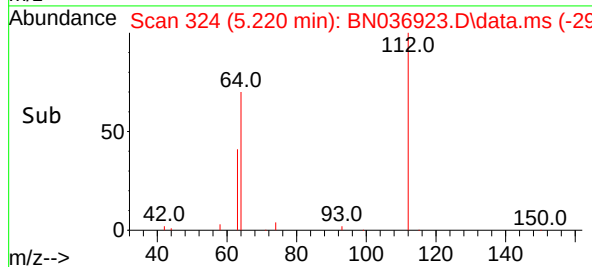
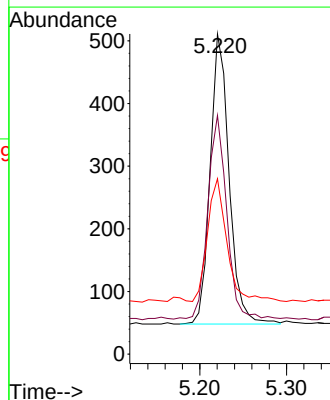
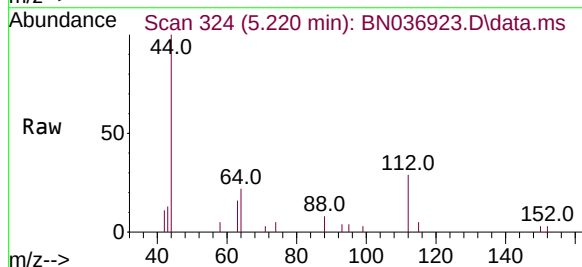
Manual Integrations
APPROVED

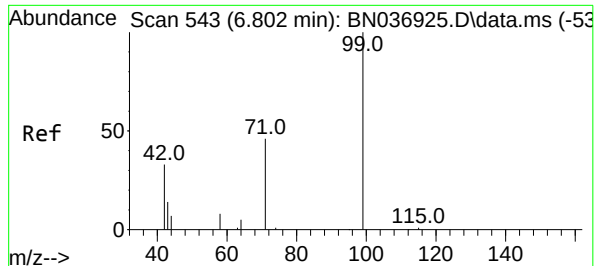
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#4
2-Fluorophenol
Concen: 0.102 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:112 Resp: 701
Ion Ratio Lower Upper
112 100
64 71.9 55.7 83.5
63 43.5 33.9 50.9





#5

Phenol-d6

Concen: 0.101 ng

RT: 6.802 min Scan# 543

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

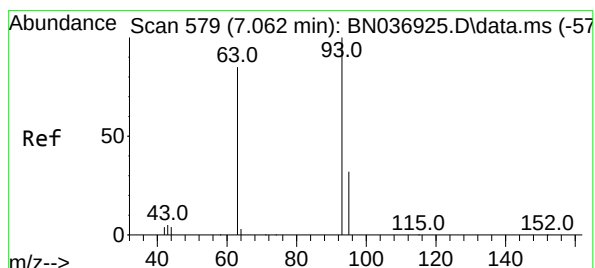
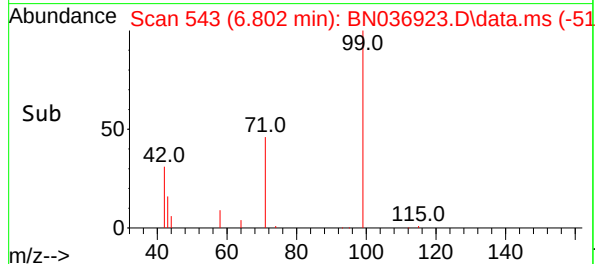
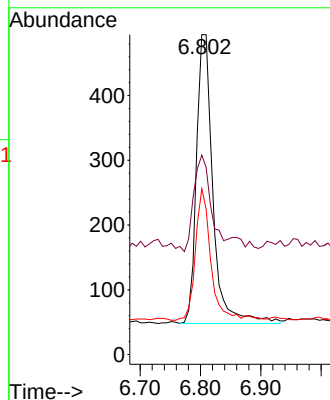
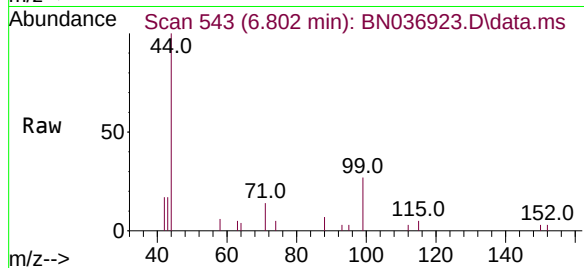
Tgt Ion:	99	Resp:	844
Ion	Ratio	Lower	Upper
99	100		
42	35.0	29.6	44.4
71	41.5	36.0	54.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#6

bis(2-Chloroethyl)ether

Concen: 0.101 ng

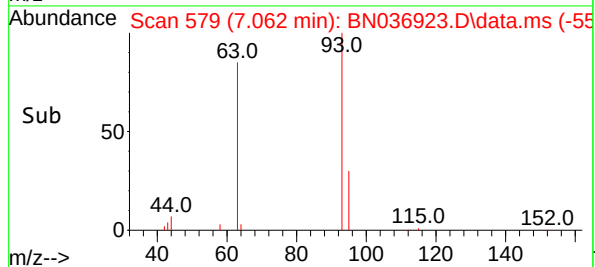
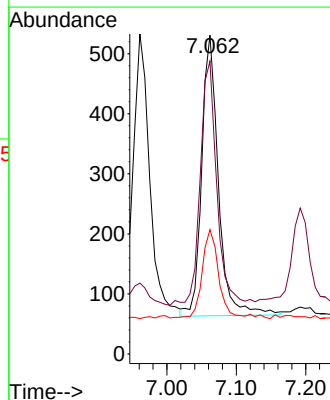
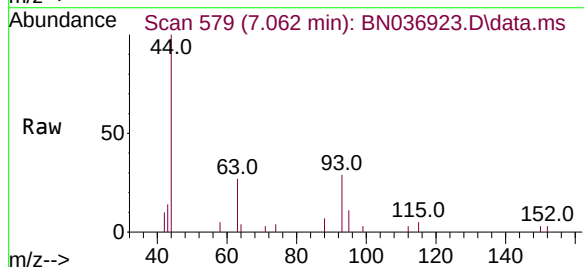
RT: 7.062 min Scan# 579

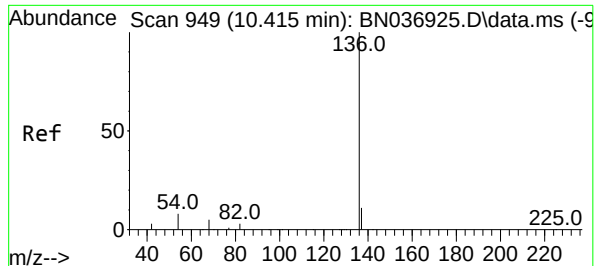
Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Tgt Ion:	93	Resp:	784
Ion	Ratio	Lower	Upper
93	100		
63	85.7	69.0	103.6
95	29.5	25.4	38.0





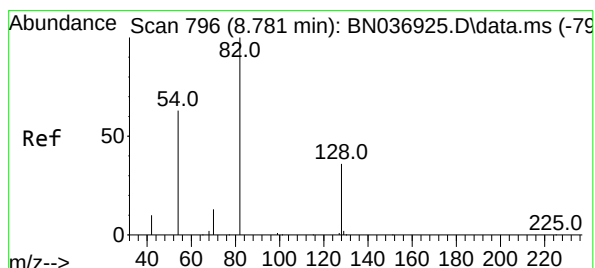
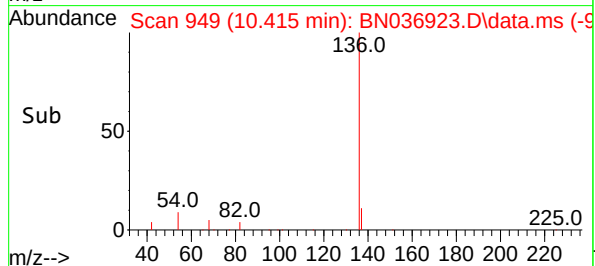
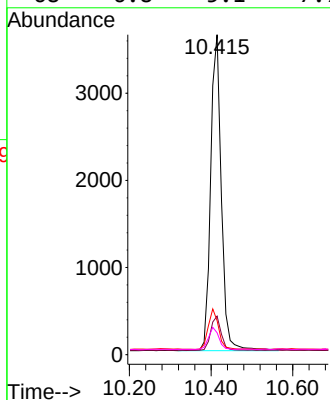
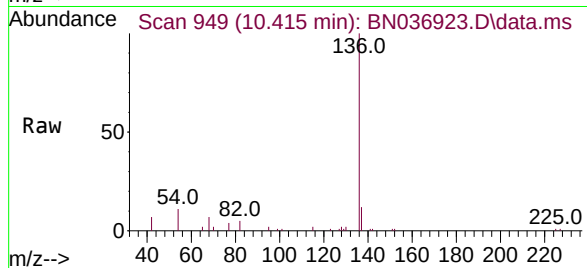
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.7	14.5
54	10.6	8.0	12.0
68	6.8	5.1	7.7

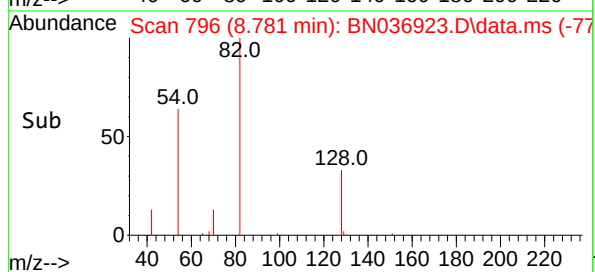
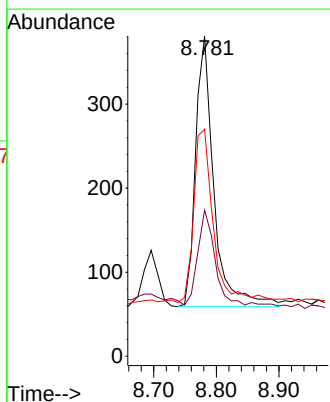
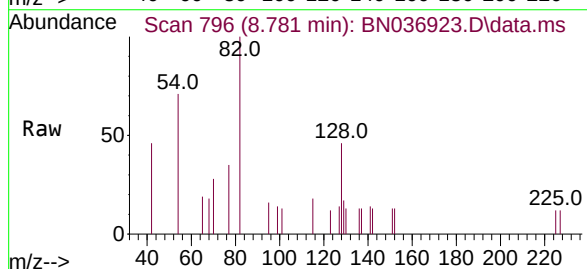
Manual Integrations
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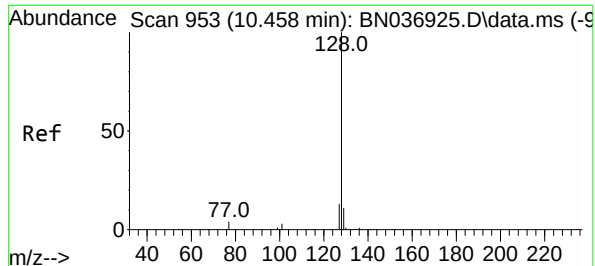
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#8
Nitrobenzene-d5
Concen: 0.096 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion	Ratio	Lower	Upper
82	100		
128	45.7	30.7	46.1
54	70.9	52.1	78.1





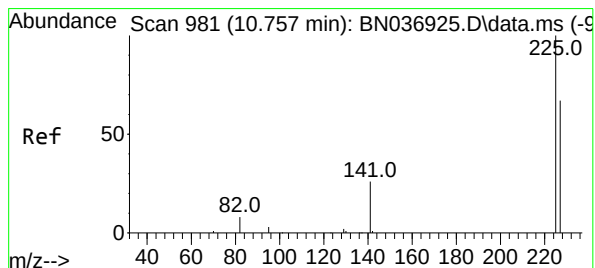
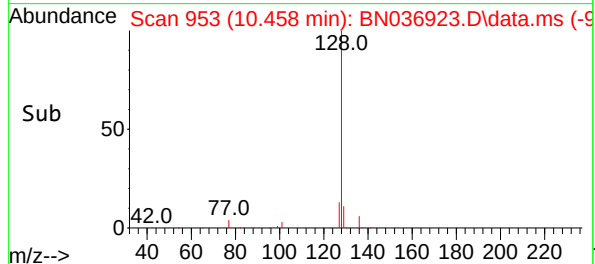
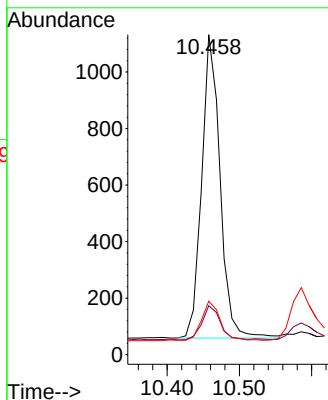
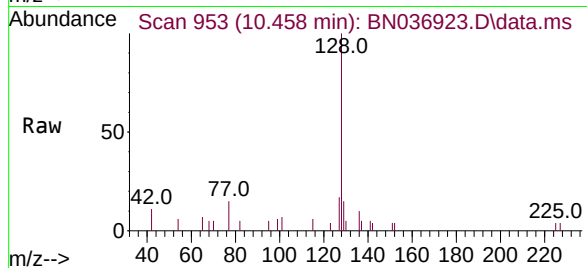
#9
Naphthalene
Concen: 0.099 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 189
Ion Ratio Lower Upper
128 100
129 15.3 9.8 14.6
127 16.7 11.4 17.2

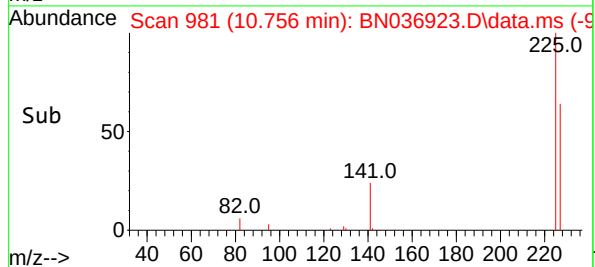
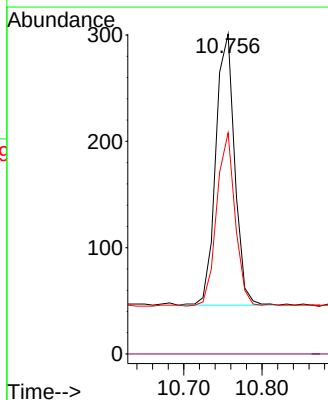
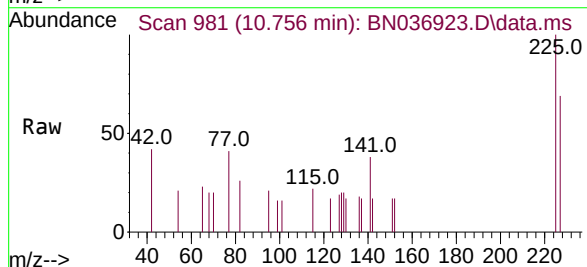
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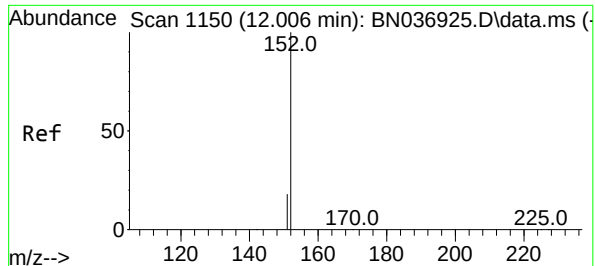
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#10
Hexachlorobutadiene
Concen: 0.102 ng
RT: 10.756 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:225 Resp: 427
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 52.2 78.4





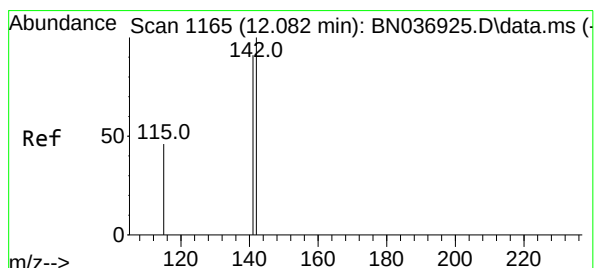
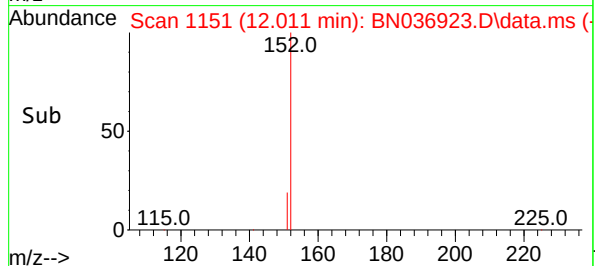
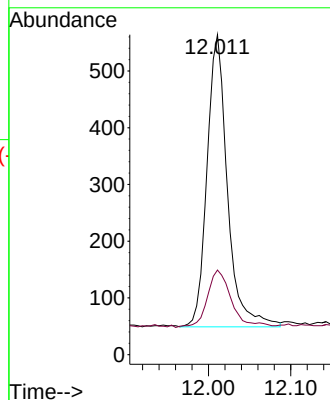
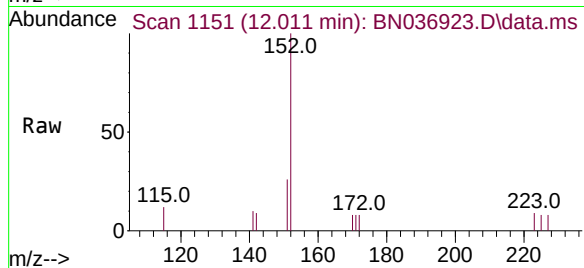
#11
2-Methylnaphthalene-d10
Concen: 0.097 ng
RT: 12.011 min Scan# 1151
Delta R.T. 0.005 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 88
Ion Ratio Lower Upper
152 100
151 23.2 16.9 25.3

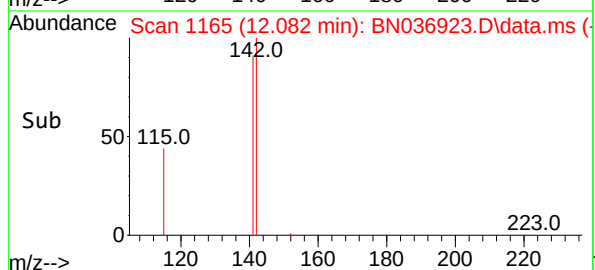
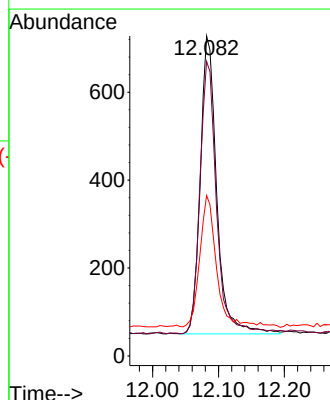
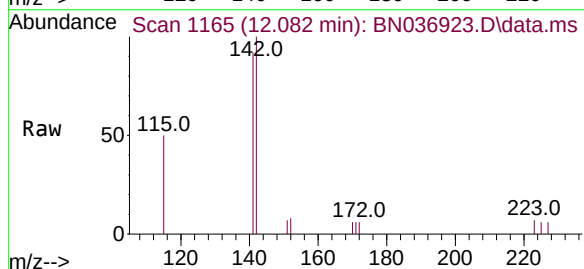
Manual Integrations
APPROVED

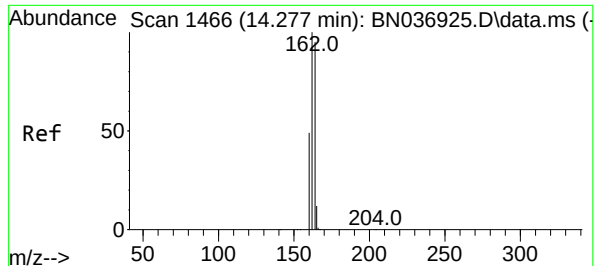
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

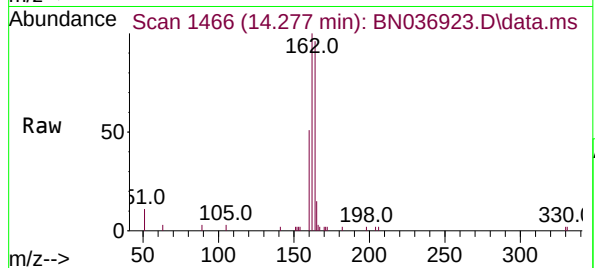
Tgt Ion:142 Resp: 1176
Ion Ratio Lower Upper
142 100
141 92.0 72.8 109.2
115 50.1 38.2 57.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

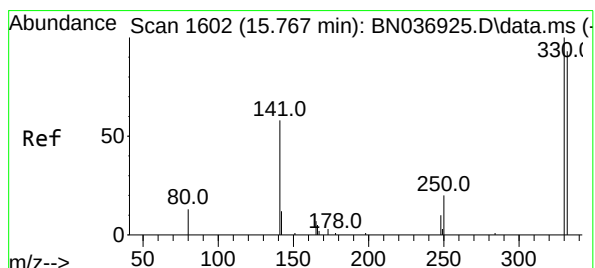
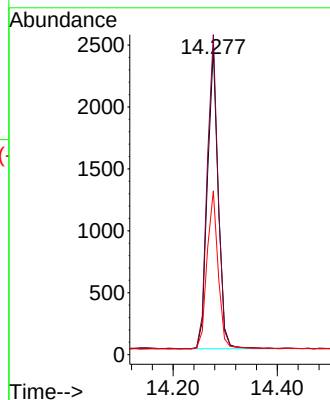
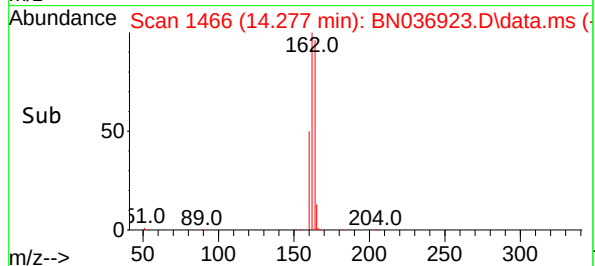
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



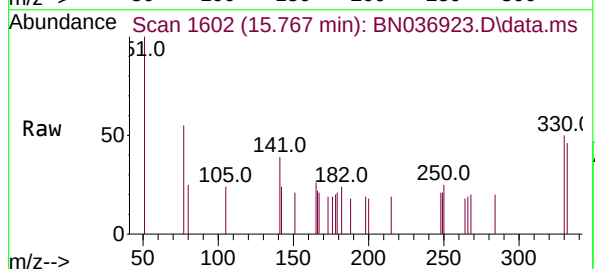
Tgt Ion:164 Resp: 3480
Ion Ratio Lower Upper
164 100
162 104.4 83.8 125.8
160 53.4 42.0 63.0

Manual Integrations
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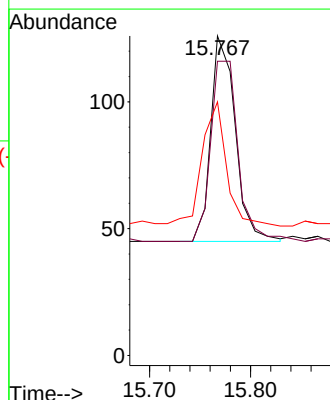
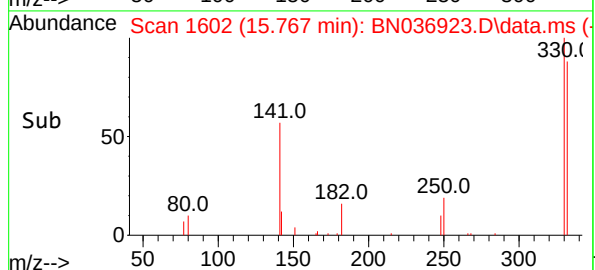
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

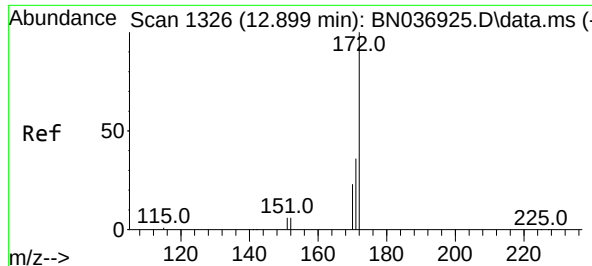


#14
2,4,6-Tribromophenol
Concen: 0.089 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35



Tgt Ion:330 Resp: 136
Ion Ratio Lower Upper
330 100
332 99.3 76.3 114.5
141 61.0 45.4 68.2





#15

2-Fluorobiphenyl

Concen: 0.097 ng

RT: 12.898 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

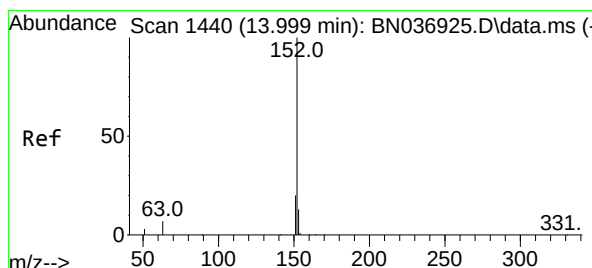
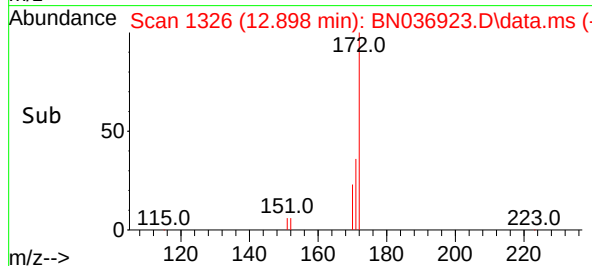
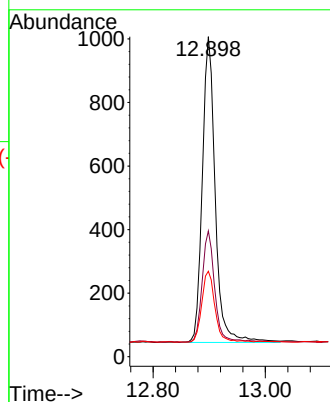
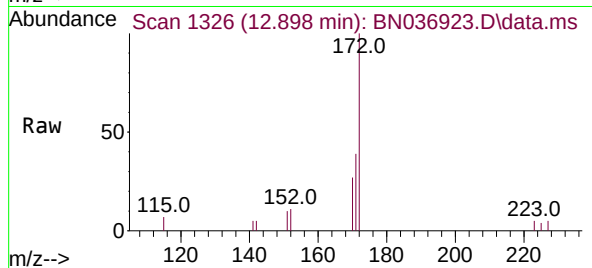
Tgt Ion:	172	Resp:	1630
Ion	Ratio	Lower	Upper
172	100		
171	39.3	29.4	44.0
170	26.7	19.4	29.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#16

Acenaphthylene

Concen: 0.097 ng

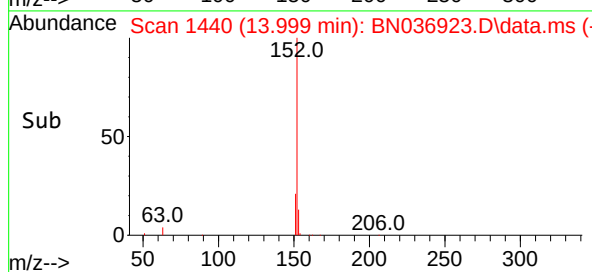
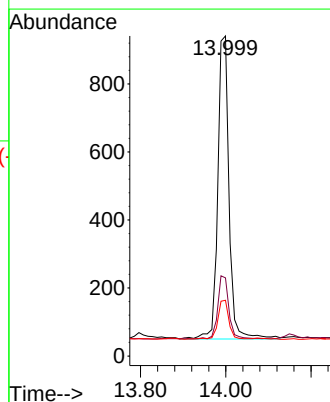
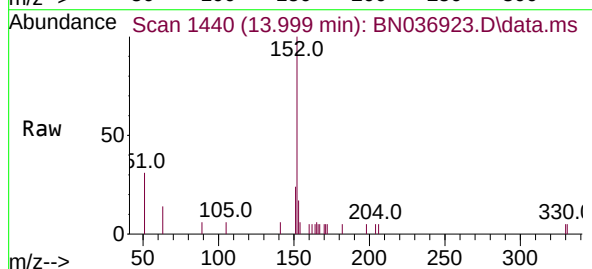
RT: 13.999 min Scan# 1440

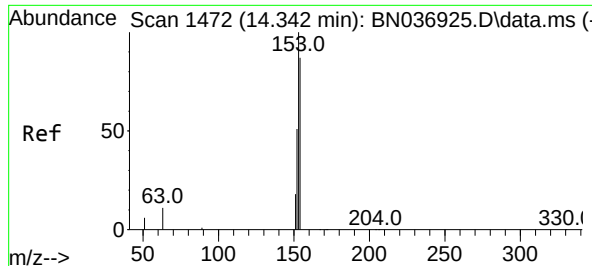
Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

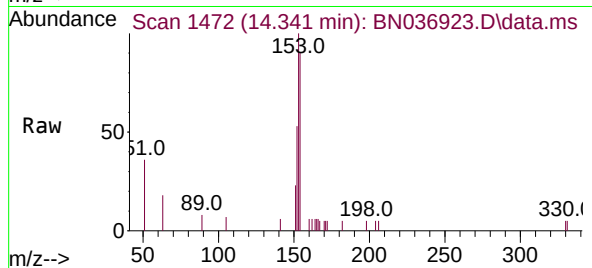
Tgt Ion:	152	Resp:	1635
Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	12.7	10.2	15.2





#17
Acenaphthene
Concen: 0.099 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

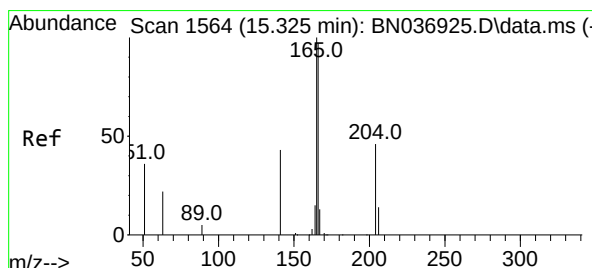
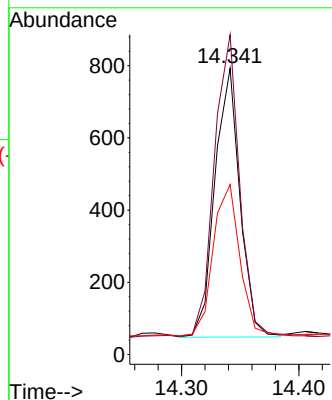
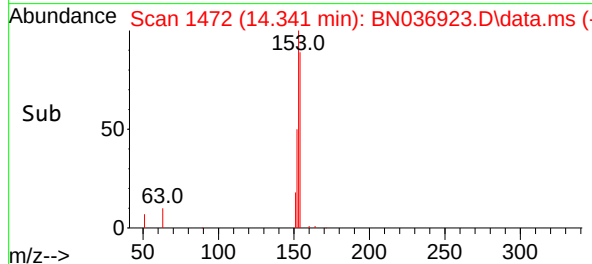
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:154 Resp: 110
Ion Ratio Lower Upper
154 100
153 115.4 93.4 140.2
152 60.2 49.5 74.3

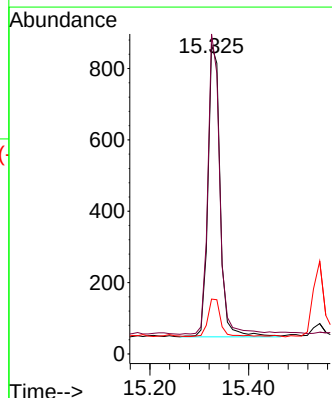
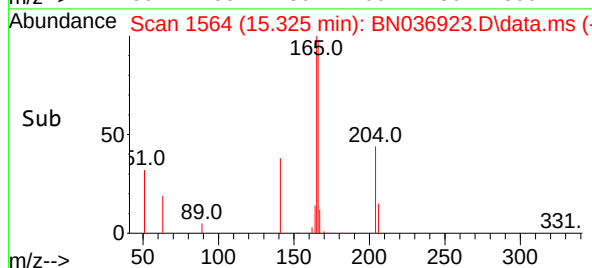
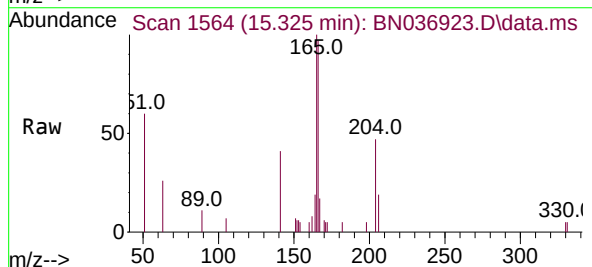
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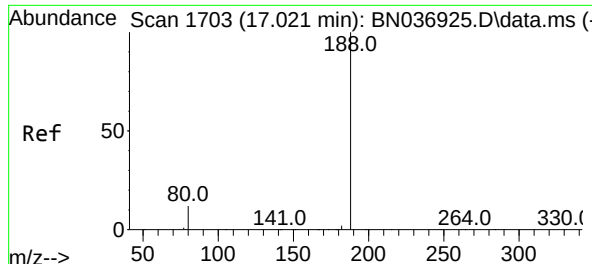
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#18
Fluorene
Concen: 0.096 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:166 Resp: 1398
Ion Ratio Lower Upper
166 100
165 99.7 80.8 121.2
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1703

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

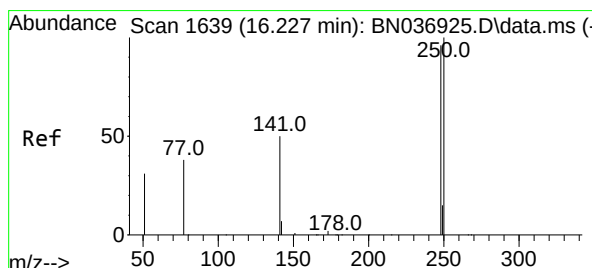
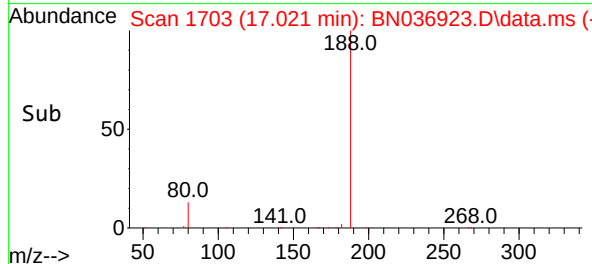
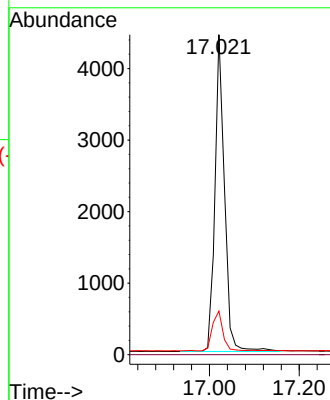
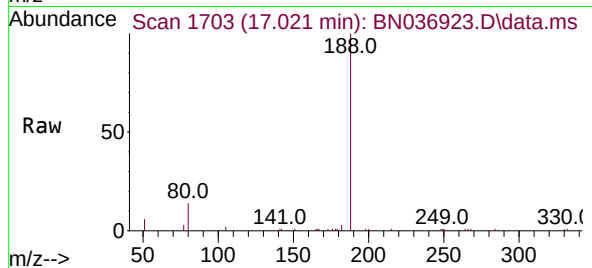
SSTDIC0.1

Tgt Ion:	188	Resp:	651
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.7	10.7	16.1

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#21

4-Bromophenyl-phenylether

Concen: 0.098 ng

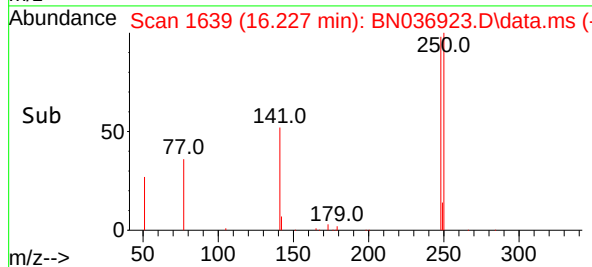
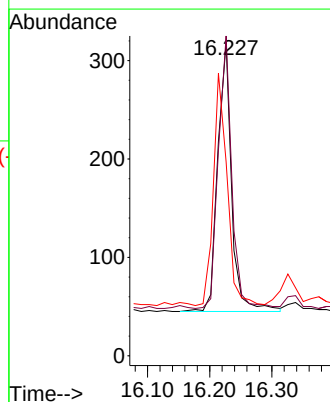
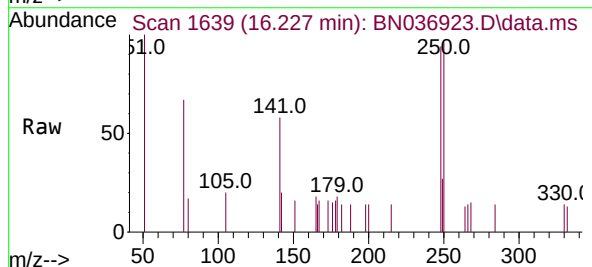
RT: 16.227 min Scan# 1639

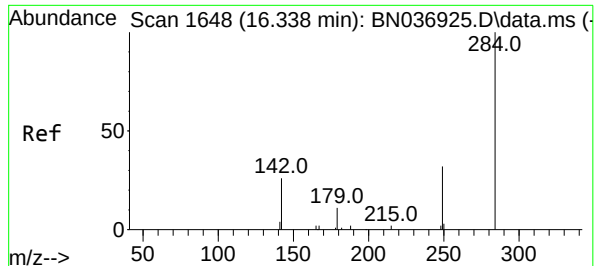
Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Tgt Ion:	248	Resp:	424
Ion Ratio	Lower	Upper	
248	100		
250	102.2	83.7	125.5
141	61.9	43.8	65.8





#22

Hexachlorobenzene

Concen: 0.102 ng

RT: 16.338 min Scan# 1648

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

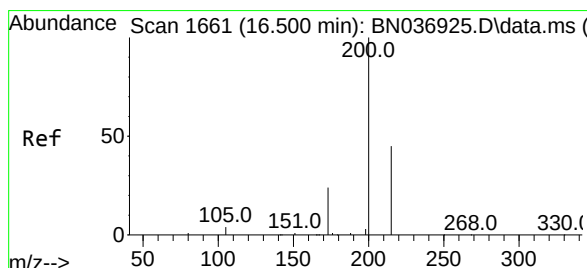
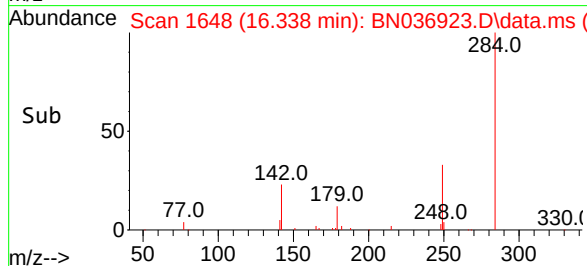
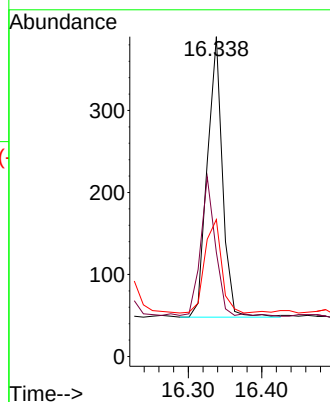
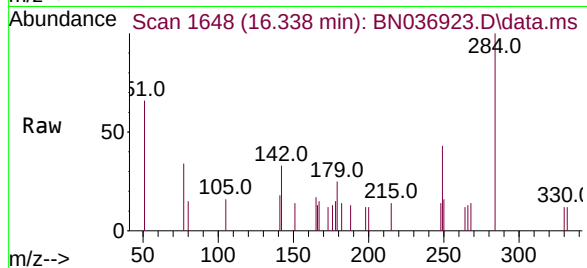
SSTDICC0.1

Tgt Ion:	284	Resp:	490
Ion Ratio	Lower	Upper	
284	100		
142	51.0	40.0	60.0
249	37.8	28.2	42.2

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#23

Atrazine

Concen: 0.092 ng

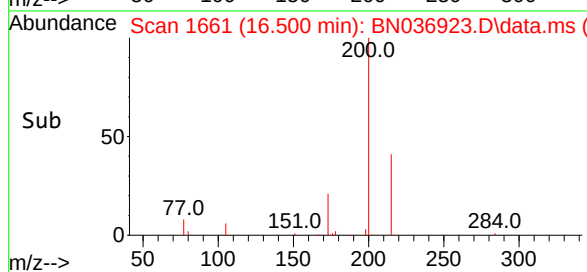
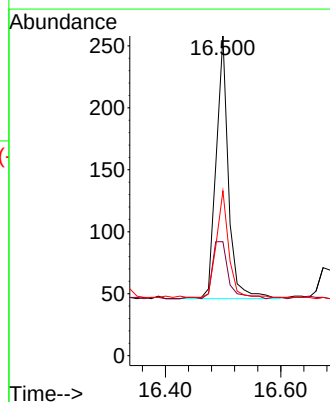
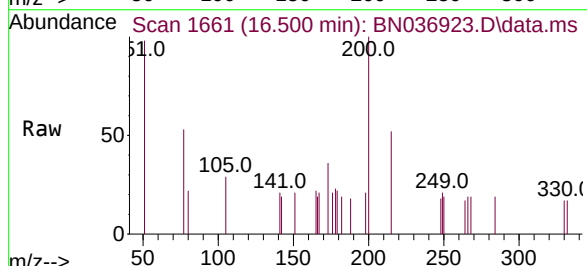
RT: 16.500 min Scan# 1661

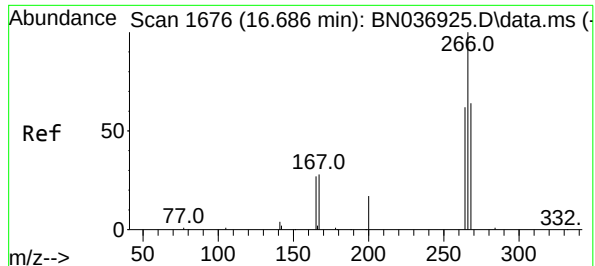
Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Tgt Ion:	200	Resp:	314
Ion Ratio	Lower	Upper	
200	100		
173	35.7	22.4	33.6
215	51.6	38.6	57.8





#24

Pentachlorophenol

Concen: 0.105 ng

RT: 16.686 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

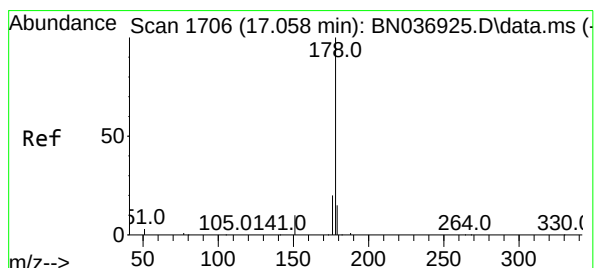
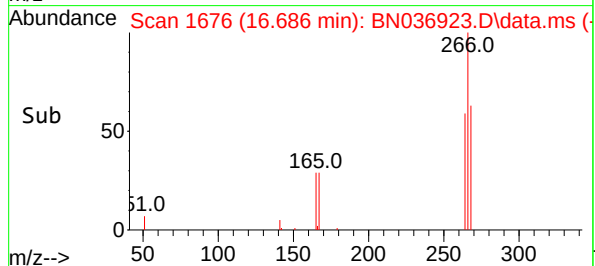
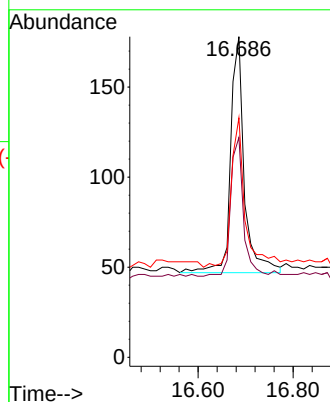
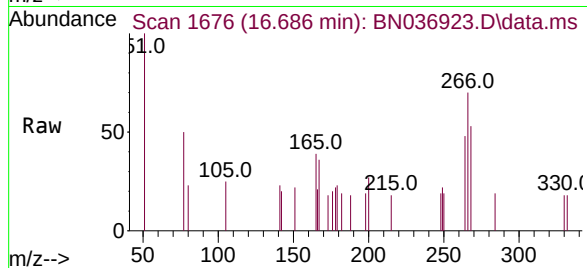
Tgt Ion:	266	Resp:	26
Ion Ratio	Lower	Upper	
266	100		
264	54.0	49.9	74.9
268	61.3	52.2	78.4

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#25

Phenanthrene

Concen: 0.099 ng

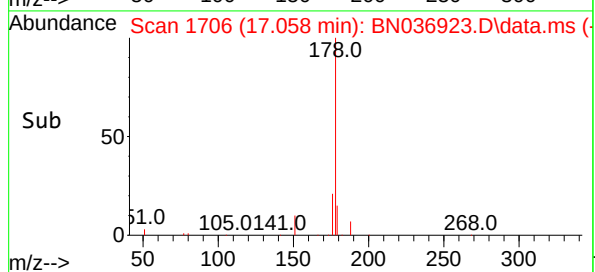
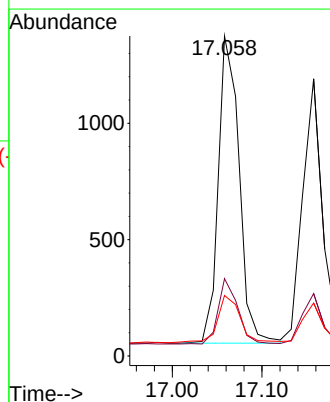
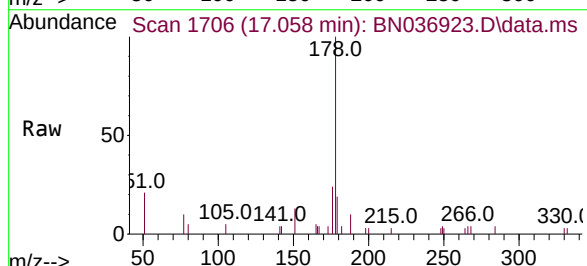
RT: 17.058 min Scan# 1706

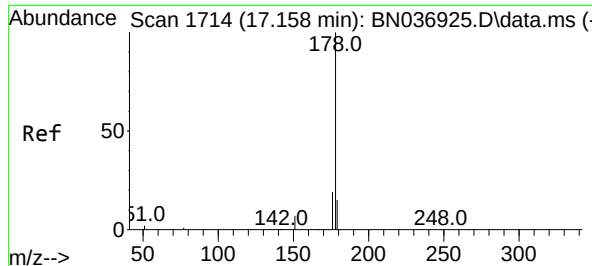
Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Tgt Ion:	178	Resp:	2132
Ion Ratio	Lower	Upper	
178	100		
176	19.9	15.7	23.5
179	16.7	12.4	18.6





#26

Anthracene

Concen: 0.096 ng

RT: 17.157 min Scan# 1714

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

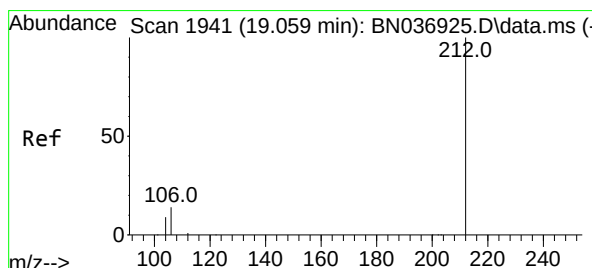
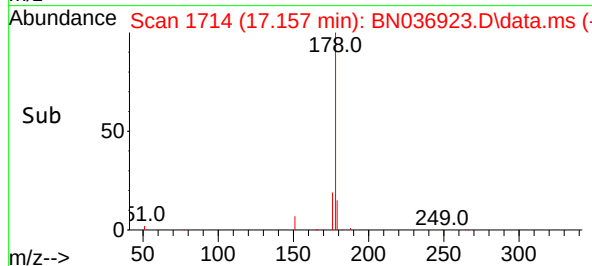
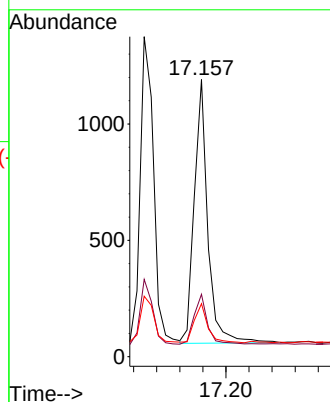
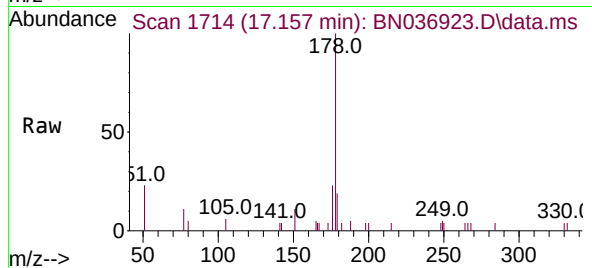
Tgt Ion:	178	Resp:	184
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.3	22.9
179	15.1	12.1	18.1

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#27

Fluoranthene-d10

Concen: 0.097 ng

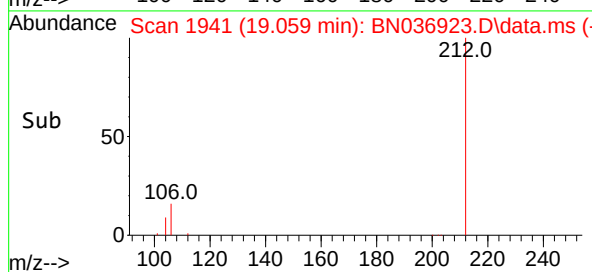
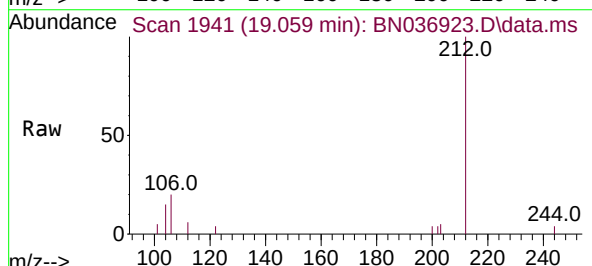
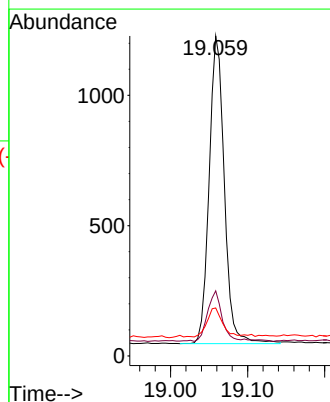
RT: 19.059 min Scan# 1941

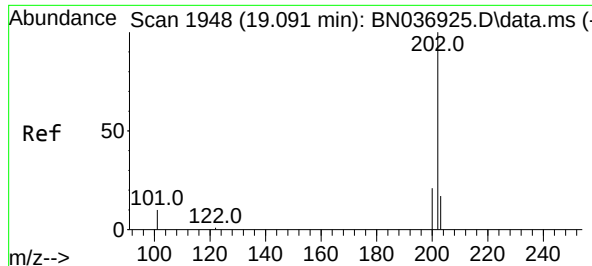
Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

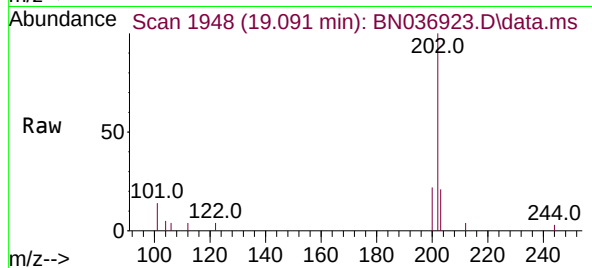
Tgt Ion:	212	Resp:	1617
Ion	Ratio	Lower	Upper
212	100		
106	16.3	11.6	17.4
104	9.3	7.0	10.4





#28
Fluoranthene
Concen: 0.095 ng
RT: 19.091 min Scan# 1948
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

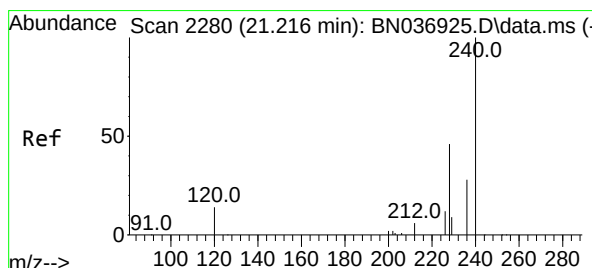
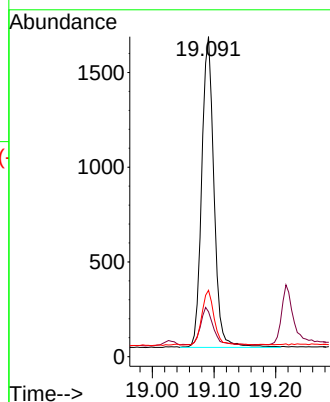
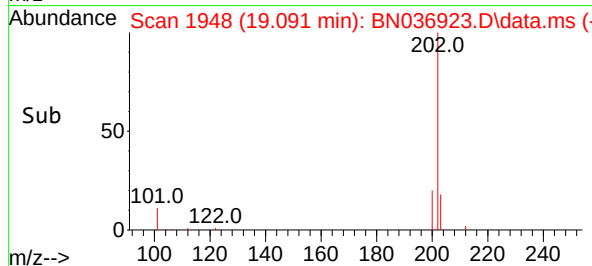
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:202 Resp: 2259
Ion Ratio Lower Upper
202 100
101 12.3 8.5 12.7
203 17.9 13.7 20.5

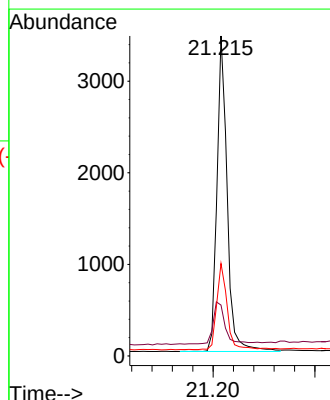
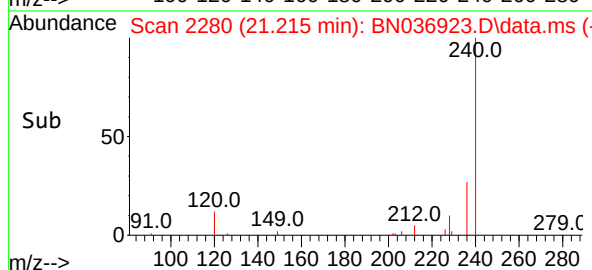
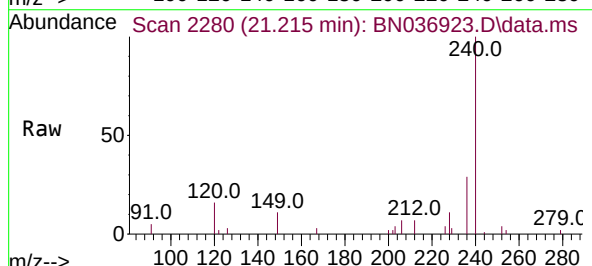
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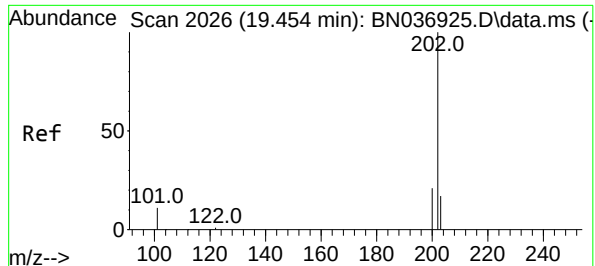
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 2280
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:240 Resp: 4809
Ion Ratio Lower Upper
240 100
120 15.9 14.1 21.1
236 28.9 23.8 35.8





#30

Pyrene

Concen: 0.099 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

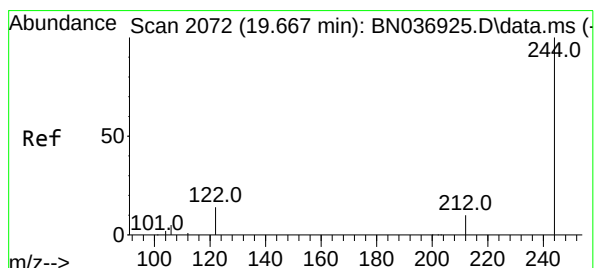
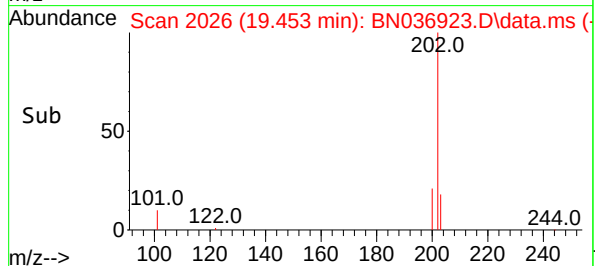
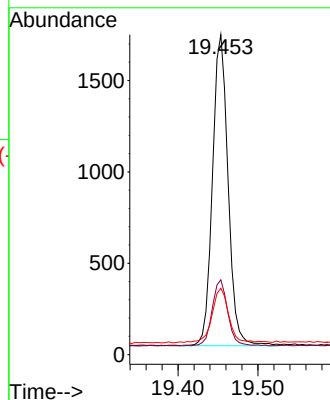
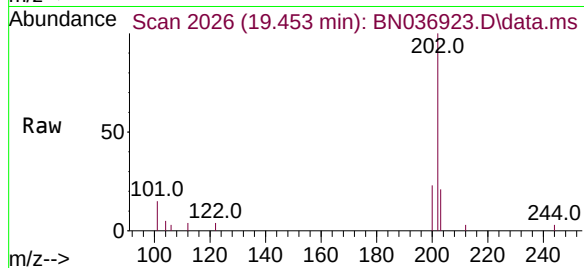
SSTDIC0.1

Tgt Ion:	202	Resp:	230
Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.6
203	19.4	14.0	21.0

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#31

Terphenyl-d14

Concen: 0.102 ng

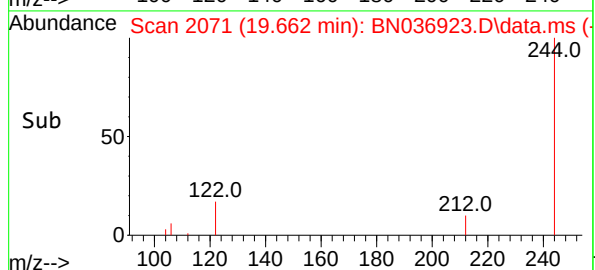
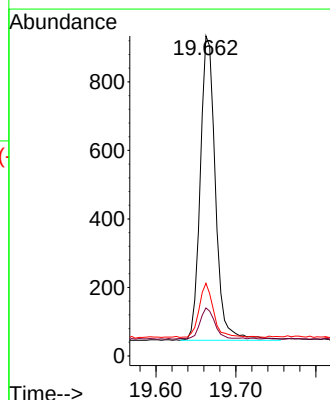
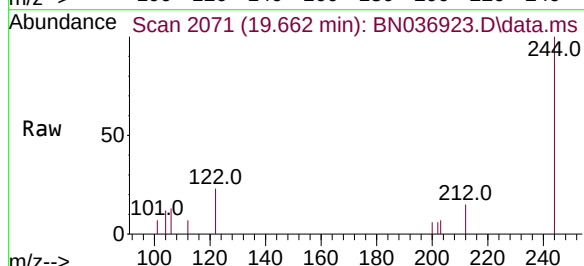
RT: 19.662 min Scan# 2071

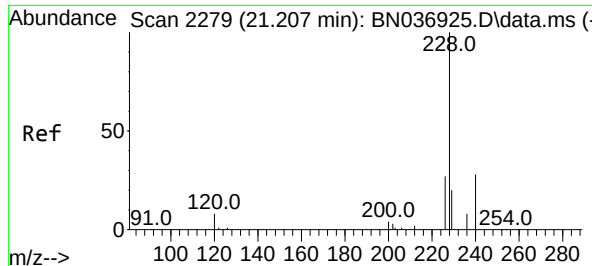
Delta R.T. -0.005 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Tgt Ion:	244	Resp:	1171
Ion	Ratio	Lower	Upper
244	100		
212	15.0	9.6	14.4#
122	22.7	12.7	19.1#





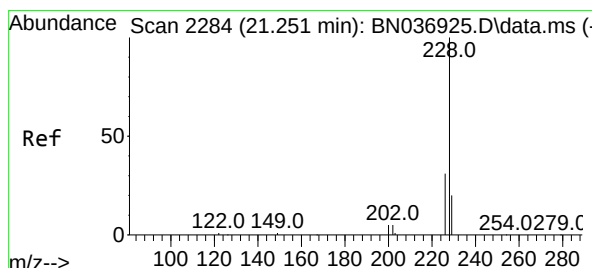
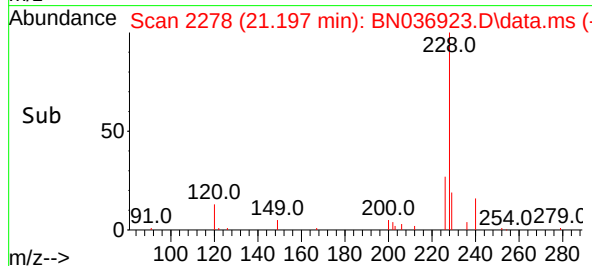
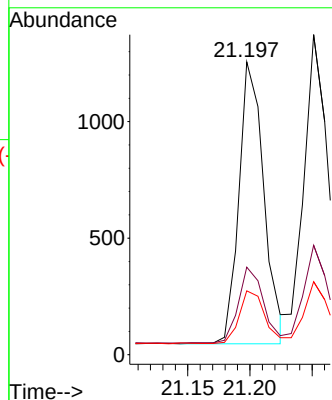
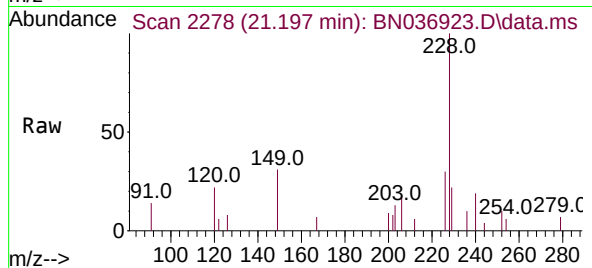
#32
Benzo(a)anthracene
Concen: 0.096 ng
RT: 21.197 min Scan# 2119
Delta R.T. -0.009 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 168
Ion Ratio Lower Upper
228 100
226 29.9 22.2 33.4
229 21.8 16.4 24.6

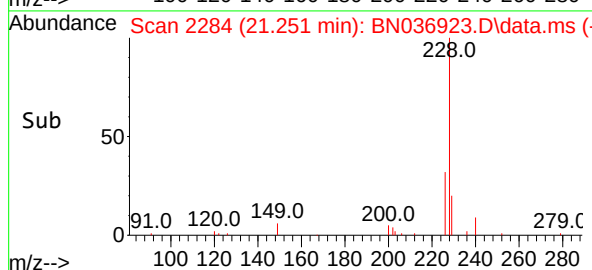
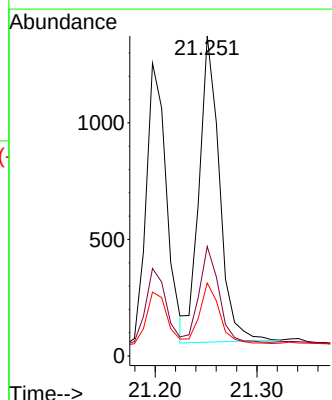
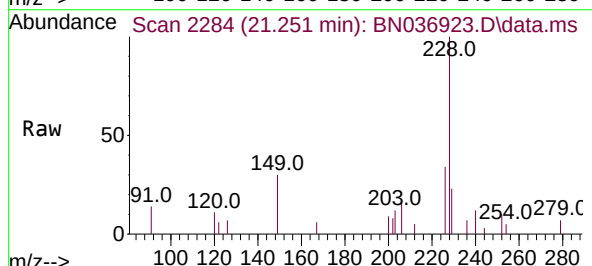
Manual Integrations
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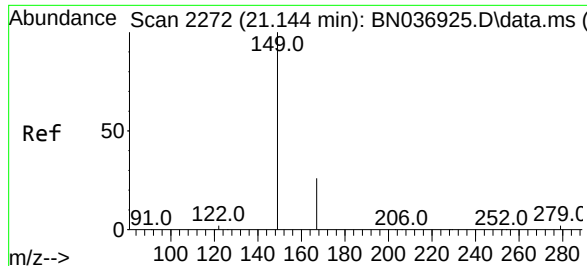
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#33
Chrysene
Concen: 0.095 ng
RT: 21.251 min Scan# 2284
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:228 Resp: 1824
Ion Ratio Lower Upper
228 100
226 34.2 25.5 38.3
229 22.8 16.5 24.7





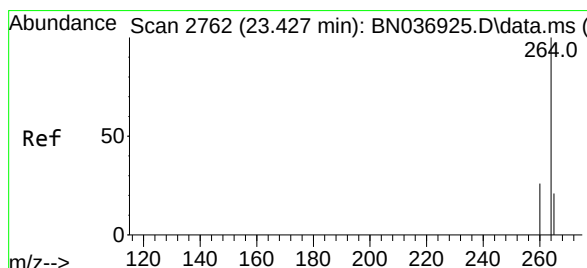
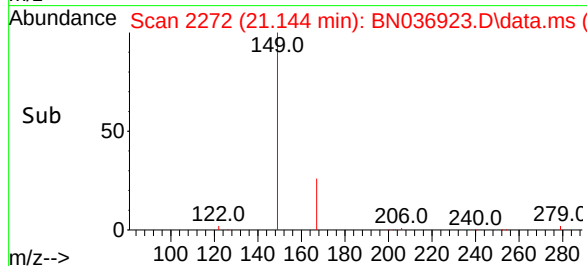
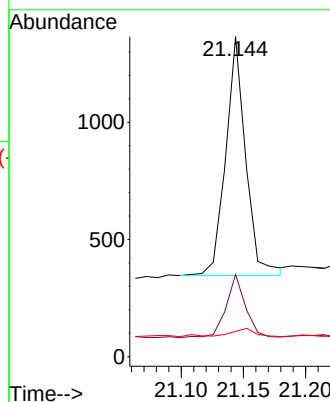
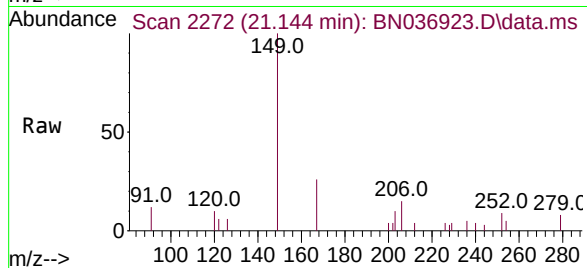
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 21.144 min Scan# 2114
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:149 Resp: 114
Ion Ratio Lower Upper
149 100
167 25.9 21.0 31.6
279 3.7 2.7 4.1

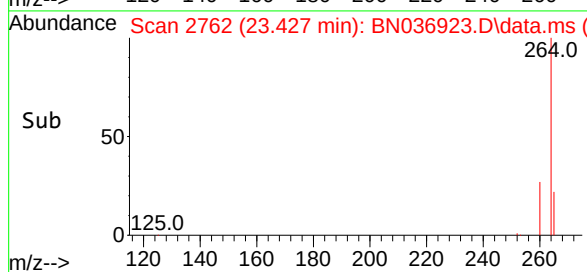
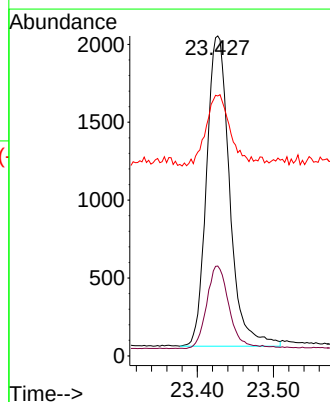
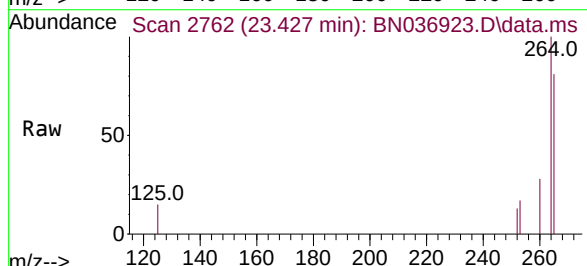
Manual Integrations
APPROVED

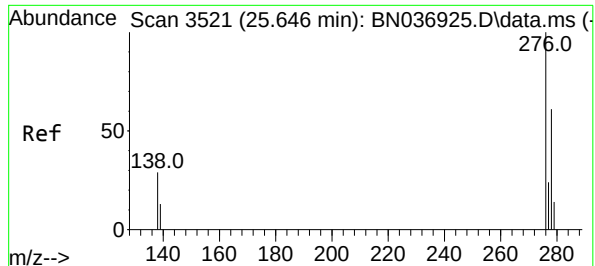
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 2762
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:264 Resp: 4185
Ion Ratio Lower Upper
264 100
260 28.1 22.2 33.2
265 81.3 65.8 98.6





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.097 ng

RT: 25.646 min Scan# 3521

Delta R.T. -0.000 min

Lab File: BN036923.D

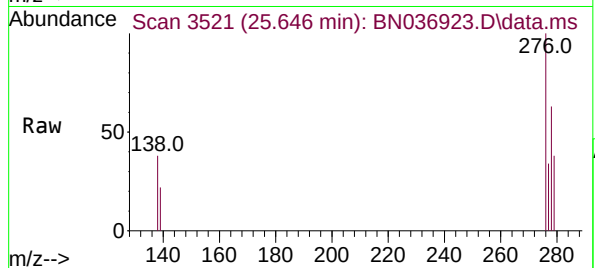
Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:276 Resp: 1669

Ion Ratio Lower Upper

276 100

138 29.5 23.0 34.6

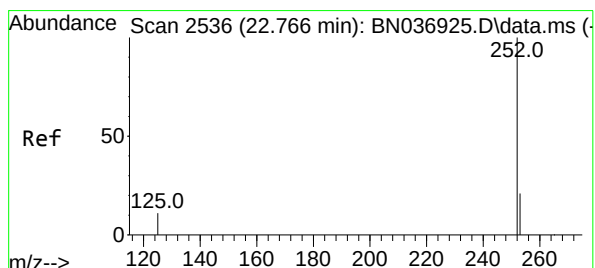
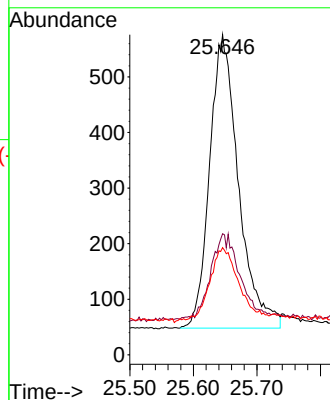
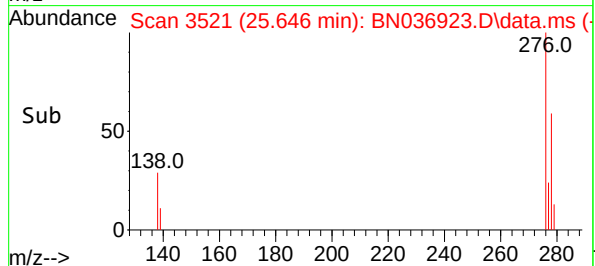
277 24.7 20.0 30.0

Manual Integrations

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#37

Benzo(b)fluoranthene

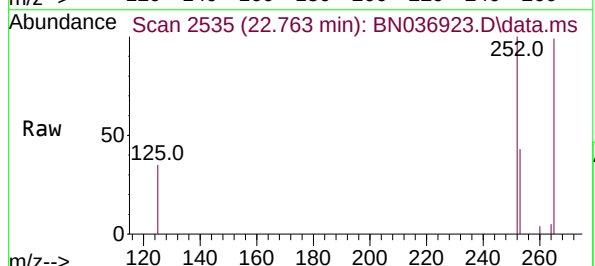
Concen: 0.095 ng

RT: 22.763 min Scan# 2535

Delta R.T. -0.003 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35



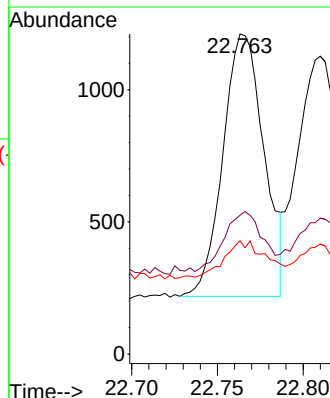
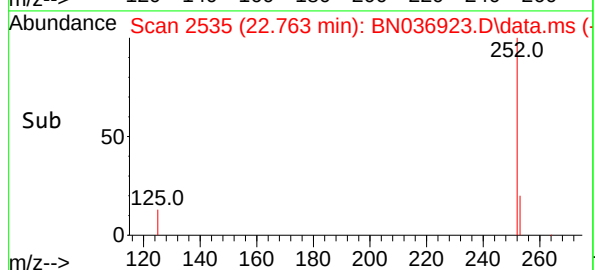
Tgt Ion:252 Resp: 1653

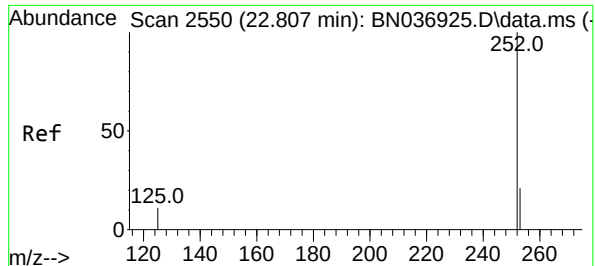
Ion Ratio Lower Upper

252 100

253 43.4 22.1 33.1#

125 35.4 14.2 21.2#





#38

Benzo(k)fluoranthene

Concen: 0.096 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.003 min

Lab File: BN036923.D

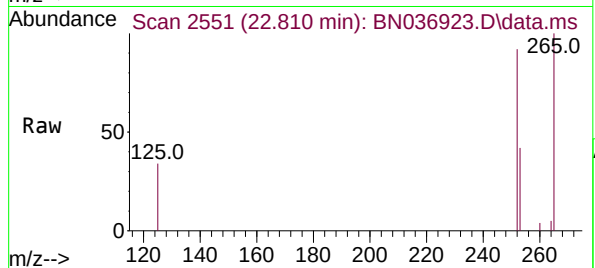
Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



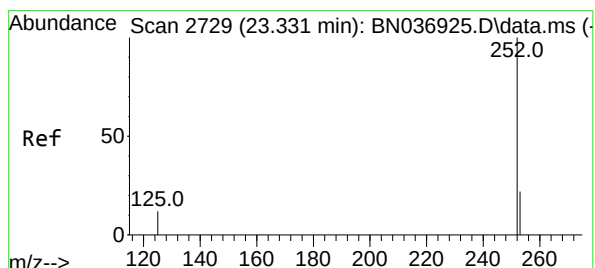
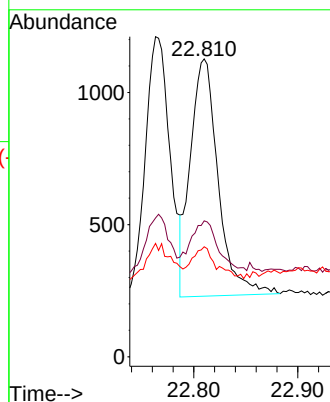
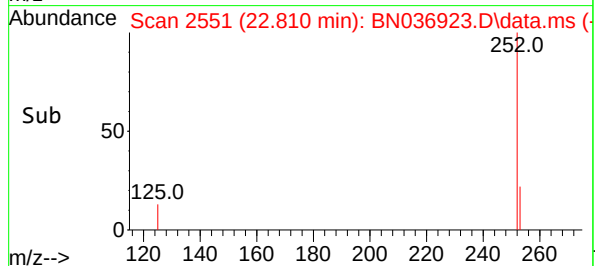
Tgt Ion:252	Resp:	1679
Ion Ratio	Lower	Upper
252	100	
253	45.6	22.8 34.2
125	36.9	14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#39

Benzo(a)pyrene

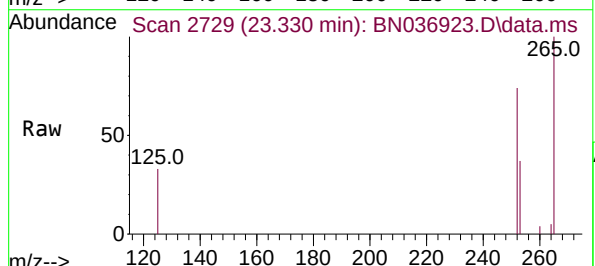
Concen: 0.096 ng

RT: 23.330 min Scan# 2729

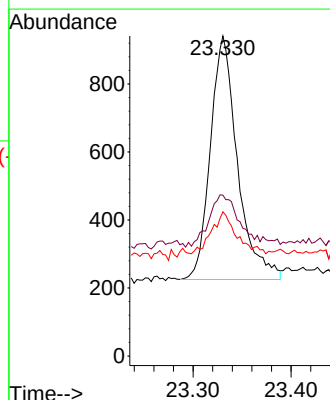
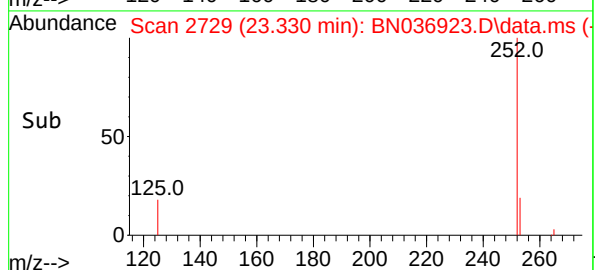
Delta R.T. -0.000 min

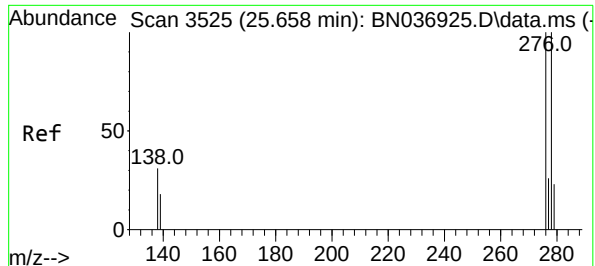
Lab File: BN036923.D

Acq: 28 Apr 2025 11:35



Tgt Ion:252	Resp:	1376
Ion Ratio	Lower	Upper
252	100	
253	50.3	25.9 38.9#
125	45.1	17.4 26.0#





#40

Dibenzo(a,h)anthracene

Concen: 0.095 ng

RT: 25.658 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

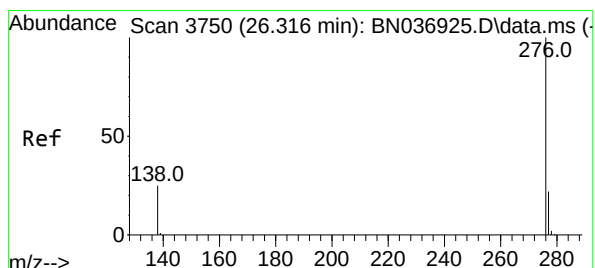
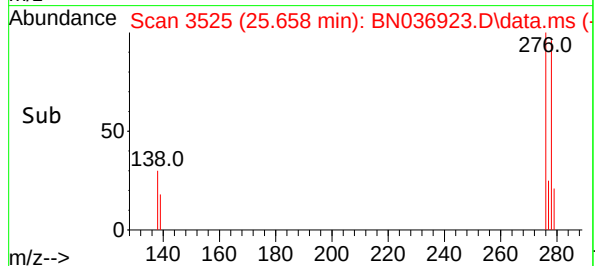
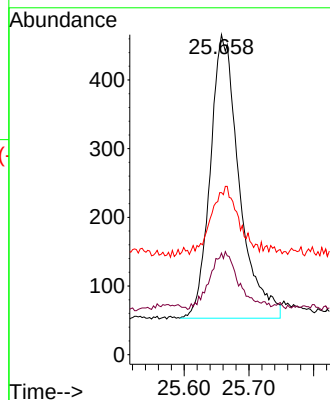
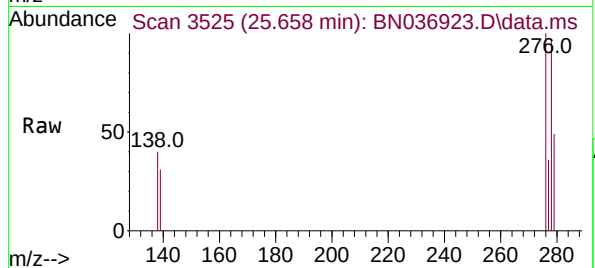
Tgt Ion:	278	Resp:	1280
Ion	Ratio	Lower	Upper
278	100		
139	31.8	17.4	26.2
279	50.6	24.9	37.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#41

Benzo(g,h,i)perylene

Concen: 0.101 ng

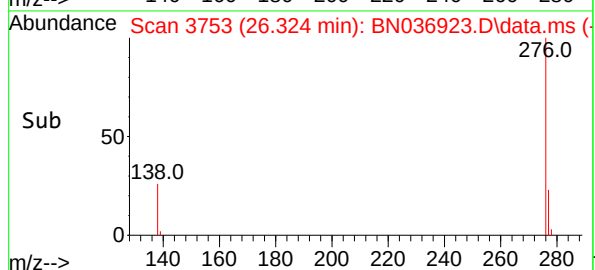
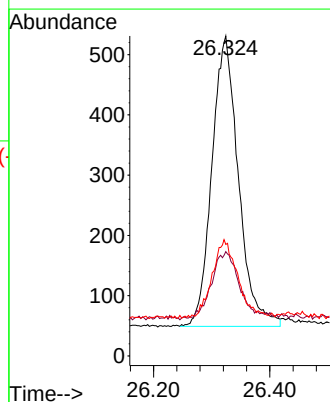
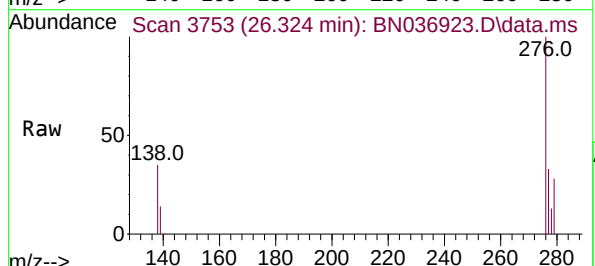
RT: 26.324 min Scan# 3753

Delta R.T. 0.009 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Tgt Ion:	276	Resp:	1527
Ion	Ratio	Lower	Upper
276	100		
277	32.6	20.2	30.2
138	34.8	21.9	32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036924.D
 Acq On : 28 Apr 2025 12:11
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 04/29/2025
 Supervised By :Jagrut Upadhyay 04/29/2025

Quant Time: Apr 28 15:12:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2482	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6094	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3232	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6237	0.400	ng	0.00
29) Chrysene-d12	21.216	240	4535	0.400	ng	0.00
35) Perylene-d12	23.430	264	4026	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	1310	0.205	ng	0.00
5) Phenol-d6	6.802	99	1535	0.197	ng	0.00
8) Nitrobenzene-d5	8.781	82	1223	0.193	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	1620	0.192	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	279	0.197	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	3191	0.204	ng	0.00
27) Fluoranthene-d10	19.059	212	3130	0.196	ng	0.00
31) Terphenyl-d14	19.667	244	2136	0.198	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.155	88	607m	0.194	ng	
3) n-Nitrosodimethylamine	3.473	42	1238	0.204	ng	# 99
6) bis(2-Chloroethyl)ether	7.062	93	1394	0.192	ng	98
9) Naphthalene	10.458	128	3495	0.197	ng	97
10) Hexachlorobutadiene	10.757	225	763	0.197	ng	# 98
12) 2-Methylnaphthalene	12.082	142	2173	0.191	ng	100
16) Acenaphthylene	13.989	152	2990	0.191	ng	100
17) Acenaphthene	14.341	154	2053	0.198	ng	99
18) Fluorene	15.325	166	2605	0.193	ng	99
20) 4,6-Dinitro-2-methylph...	15.411	198	258	0.165	ng	# 57
21) 4-Bromophenyl-phenylether	16.227	248	819	0.197	ng	99
22) Hexachlorobenzene	16.338	284	900	0.196	ng	99
23) Atrazine	16.500	200	618	0.189	ng	98
24) Pentachlorophenol	16.686	266	425	0.178	ng	98
25) Phenanthrene	17.058	178	3972	0.194	ng	100
26) Anthracene	17.158	178	3454	0.188	ng	100
28) Fluoranthene	19.091	202	4305	0.189	ng	99
30) Pyrene	19.454	202	4403	0.200	ng	100
32) Benzo(a)anthracene	21.198	228	3191	0.193	ng	97
33) Chrysene	21.251	228	3574	0.197	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	1921	0.203	ng	98
36) Indeno(1,2,3-cd)pyrene	25.643	276	3163	0.192	ng	99
37) Benzo(b)fluoranthene	22.766	252	3124	0.187	ng	# 88
38) Benzo(k)fluoranthene	22.810	252	3158	0.187	ng	# 87
39) Benzo(a)pyrene	23.328	252	2619	0.190	ng	# 84
40) Dibenzo(a,h)anthracene	25.661	278	2498	0.193	ng	# 88
41) Benzo(g,h,i)perylene	26.327	276	2828	0.195	ng	96

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

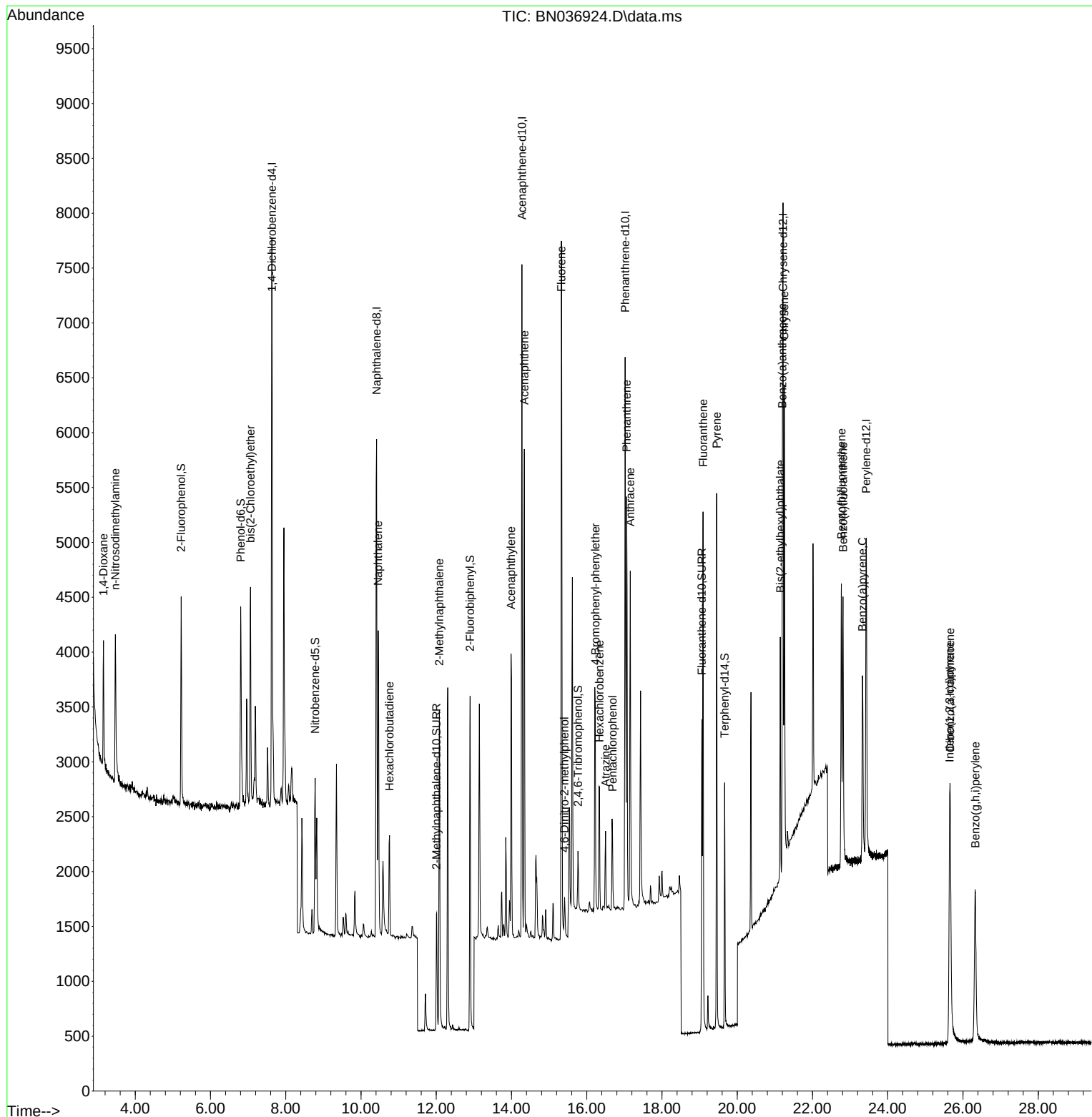
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Data File : BN036924.D
Acq On : 28 Apr 2025 12:11
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

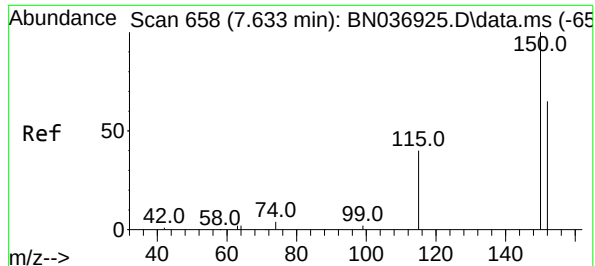
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Apr 28 15:12:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

Manual Integrations
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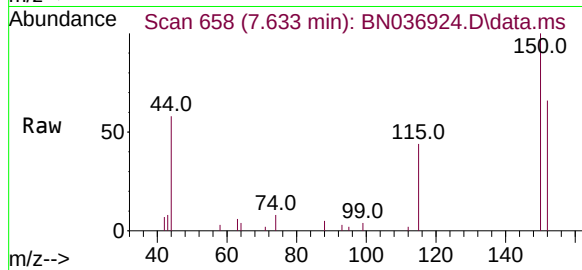
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

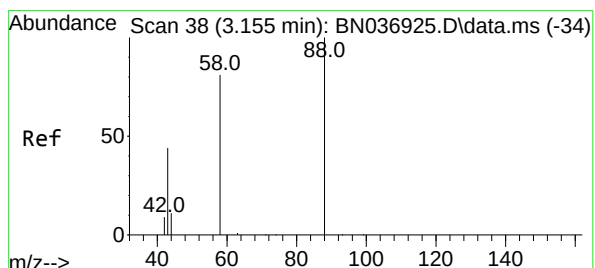
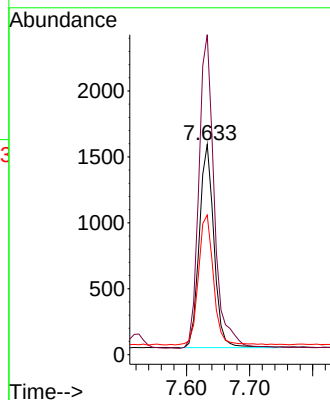
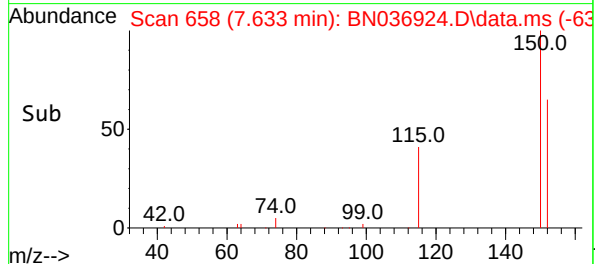
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 248
Ion Ratio Lower Upper
152 100
150 152.3 121.1 181.7
115 66.4 51.8 77.6

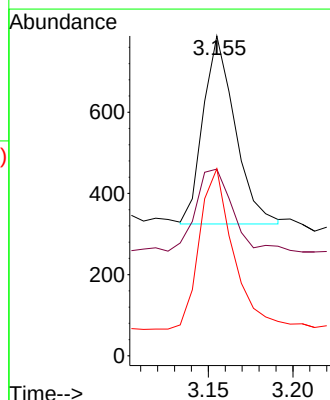
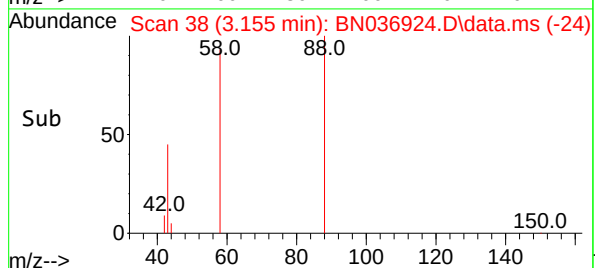
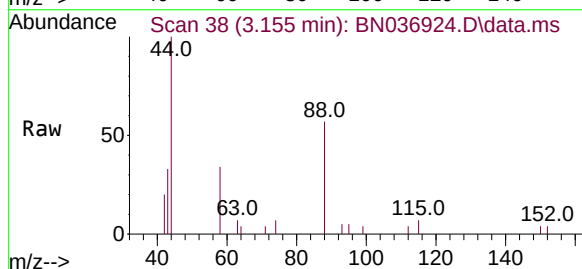
Manual Integrations
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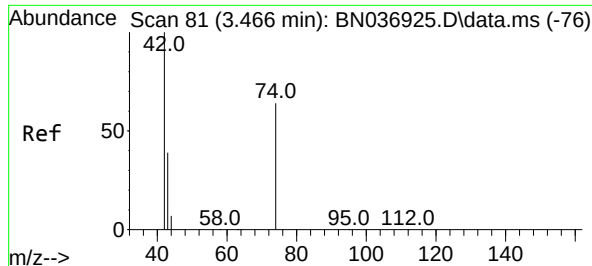
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#2
1,4-Dioxane
Concen: 0.194 ng m
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

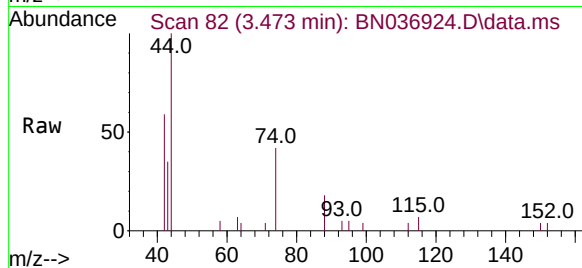
Tgt Ion: 88 Resp: 607
Ion Ratio Lower Upper
88 100
43 66.4 37.9 56.9#
58 94.4 65.8 98.6





#3
n-Nitrosodimethylamine
Concen: 0.204 ng
RT: 3.473 min Scan# 81
Delta R.T. 0.007 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

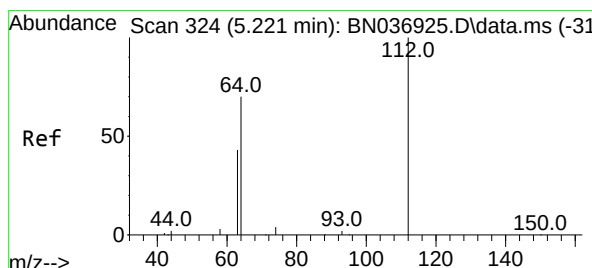
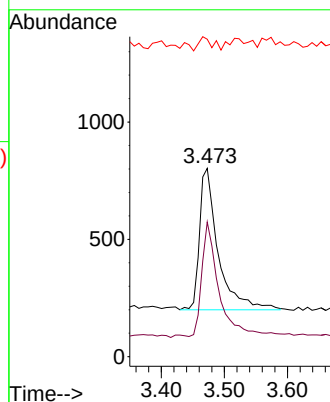
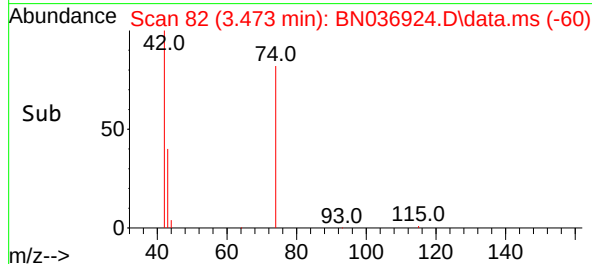
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 42 Resp: 1238
Ion Ratio Lower Upper
42 100
74 74.2 59.9 89.9
44 7.1 7.5 11.3

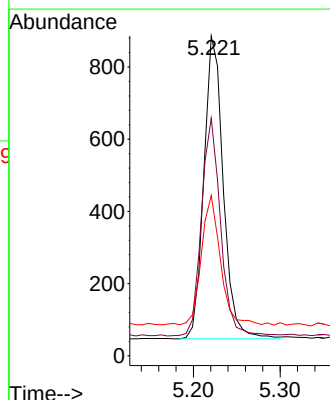
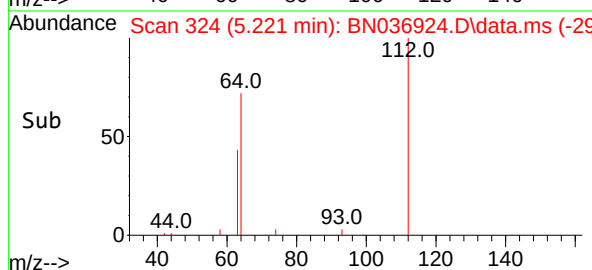
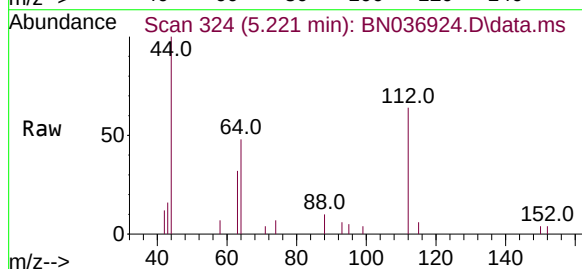
Manual Integrations
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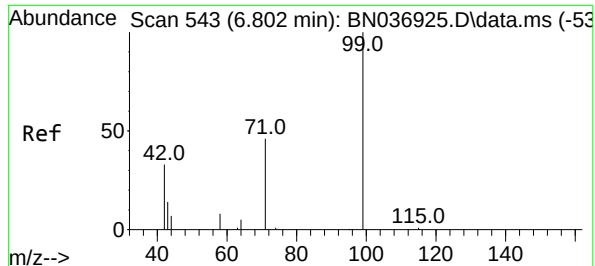
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#4
2-Fluorophenol
Concen: 0.205 ng
RT: 5.221 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:112 Resp: 1310
Ion Ratio Lower Upper
112 100
64 70.8 55.7 83.5
63 42.5 33.9 50.9





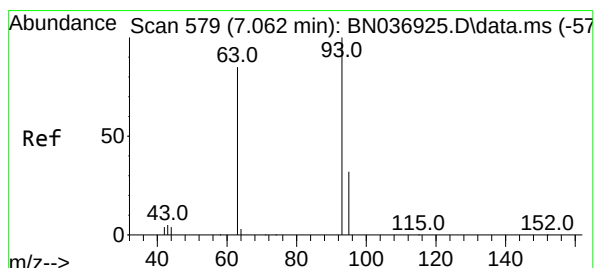
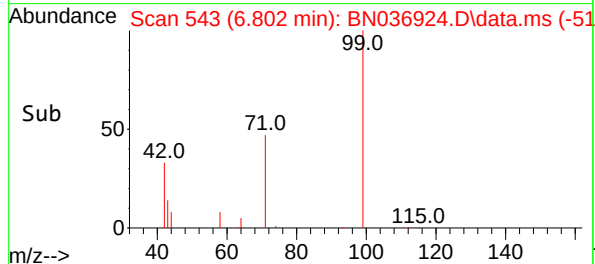
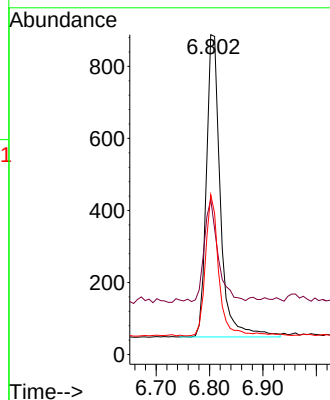
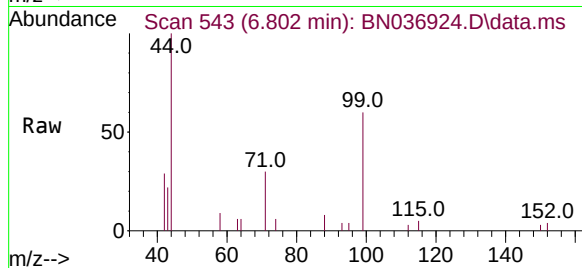
#5
Phenol-d6
Concen: 0.197 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
99	100		
42	33.2	29.6	44.4
71	43.6	36.0	54.0

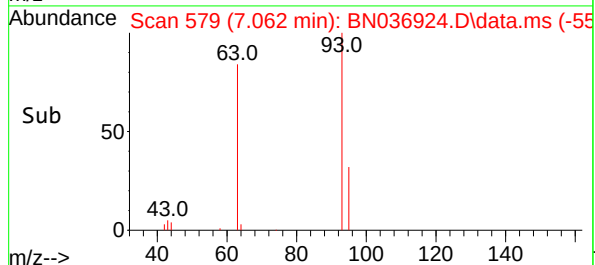
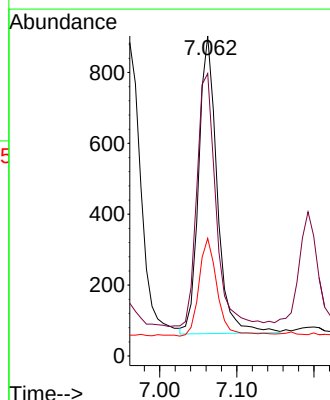
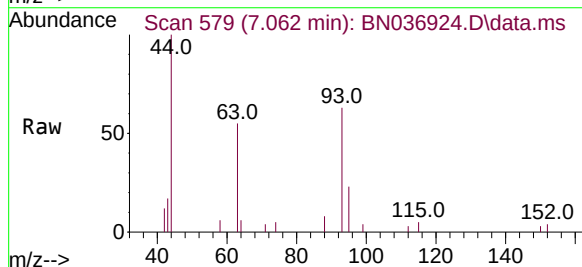
Manual Integrations
APPROVED

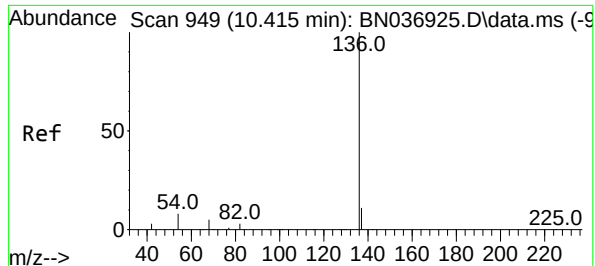
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.192 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion	Ratio	Lower	Upper
93	100		
63	88.4	69.0	103.6
95	33.1	25.4	38.0





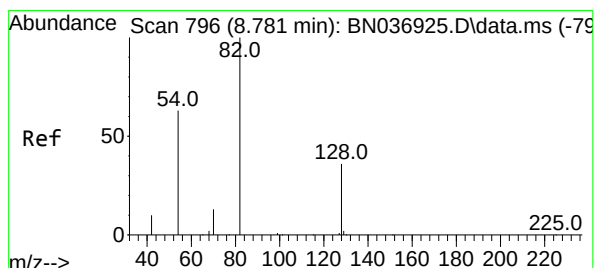
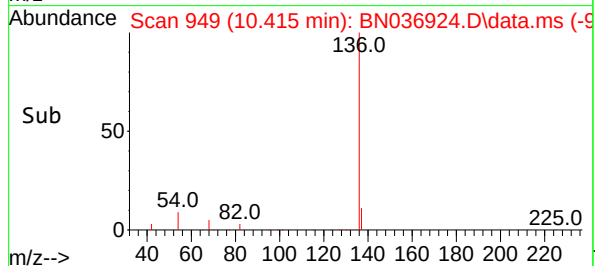
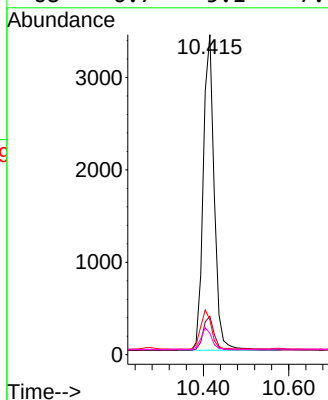
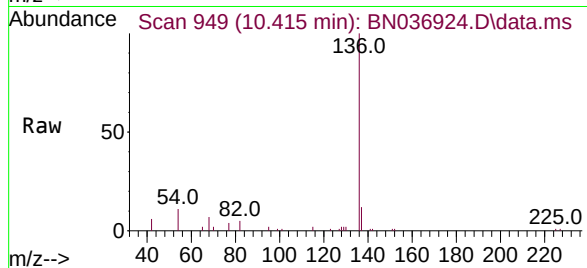
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.7	14.5
54	10.8	8.0	12.0
68	6.7	5.1	7.7

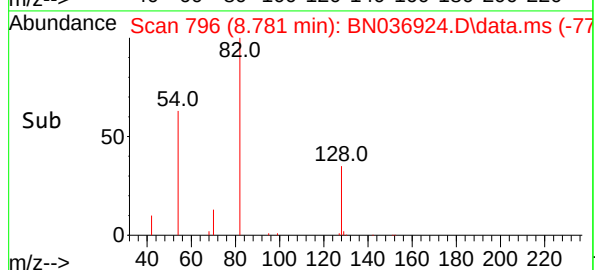
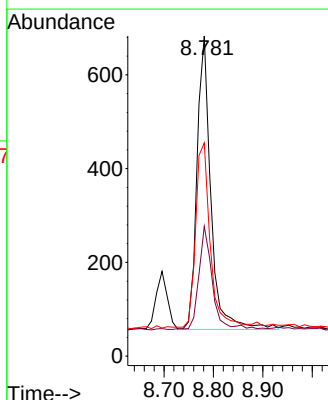
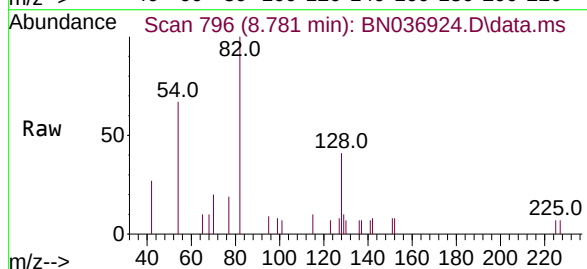
Manual Integrations
APPROVED

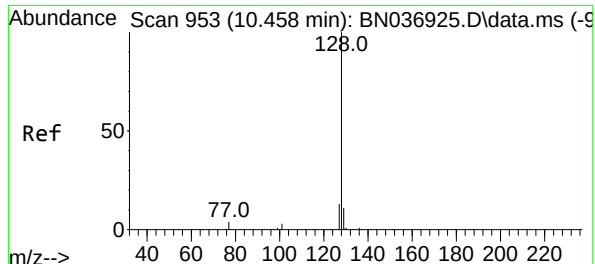
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#8
Nitrobenzene-d5
Concen: 0.193 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion	Ratio	Lower	Upper
82	100		
128	40.6	30.7	46.1
54	66.6	52.1	78.1





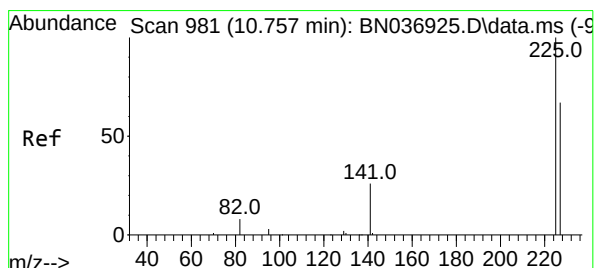
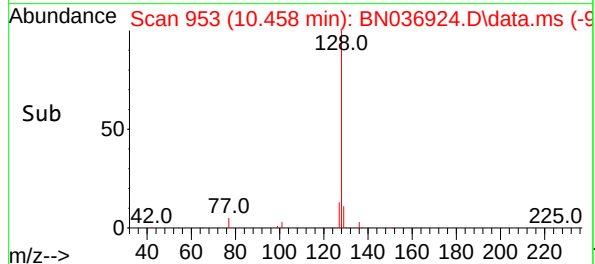
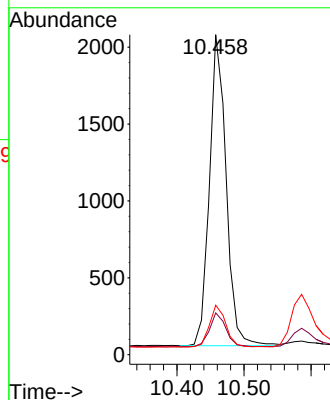
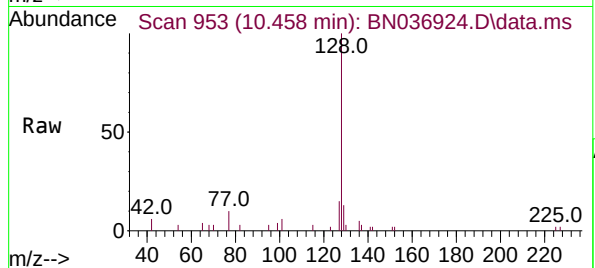
#9
Naphthalene
Concen: 0.197 ng
RT: 10.458 min Scan# 953
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 349
Ion Ratio Lower Upper
128 100
129 13.1 9.8 14.6
127 15.5 11.4 17.2

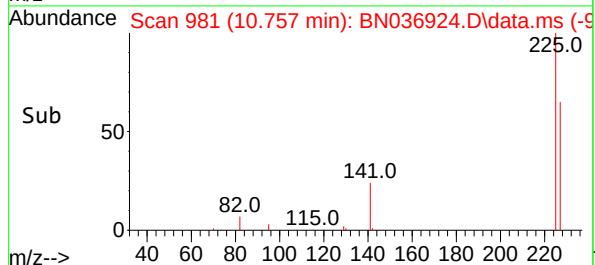
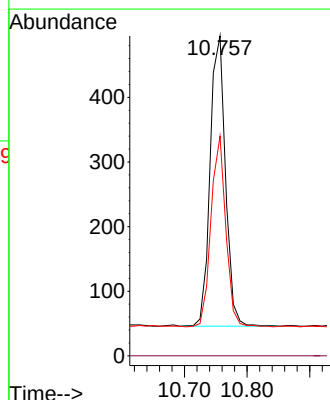
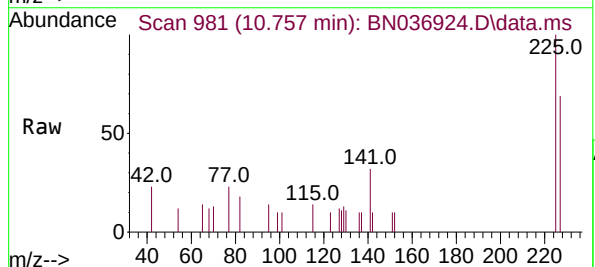
Manual Integrations
APPROVED

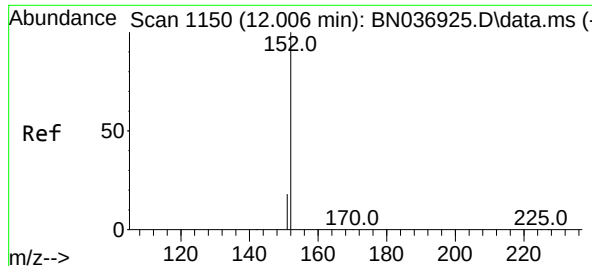
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#10
Hexachlorobutadiene
Concen: 0.197 ng
RT: 10.757 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

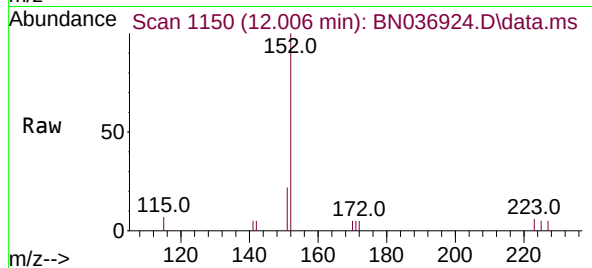
Tgt Ion:225 Resp: 763
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 52.2 78.4





#11
2-Methylnaphthalene-d10
Concen: 0.192 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

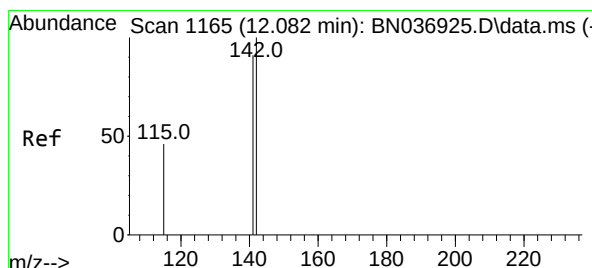
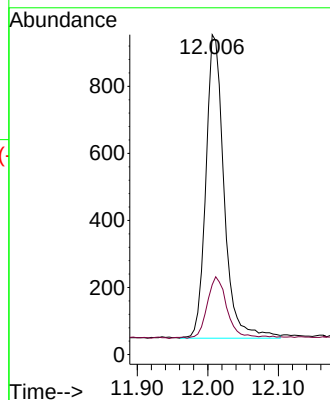
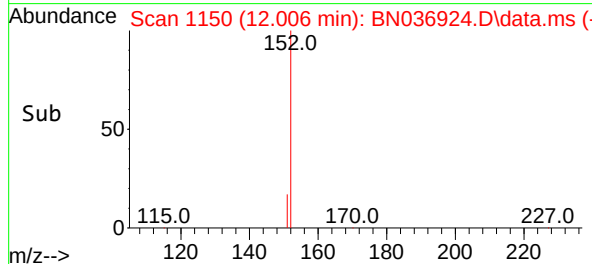
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 1620
Ion Ratio Lower Upper
152 100
151 21.7 16.9 25.3

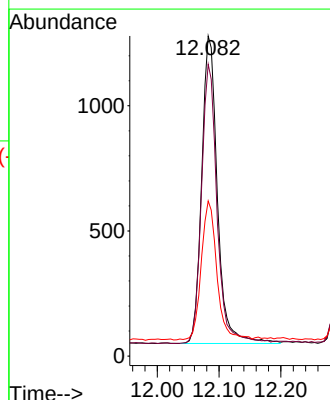
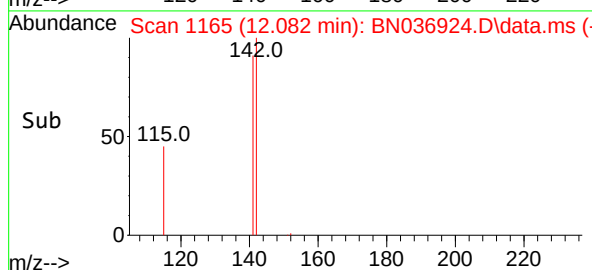
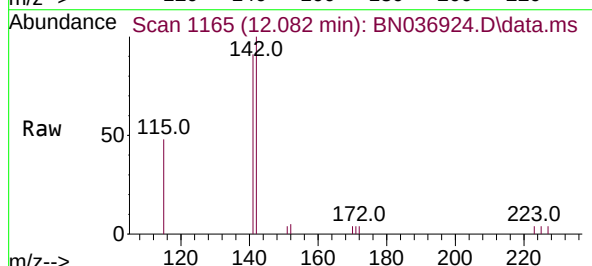
Manual Integrations
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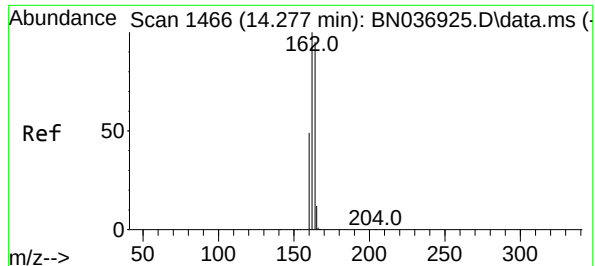
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#12
2-Methylnaphthalene
Concen: 0.191 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

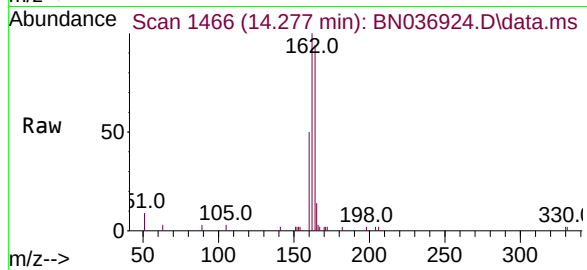
Tgt Ion:142 Resp: 2173
Ion Ratio Lower Upper
142 100
141 91.2 72.8 109.2
115 48.5 38.2 57.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

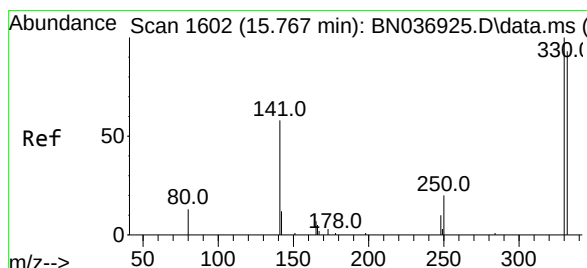
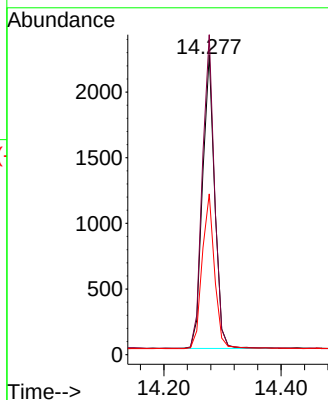
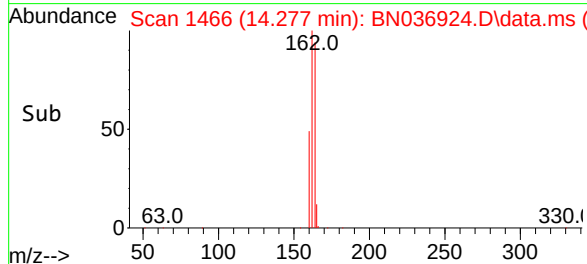
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



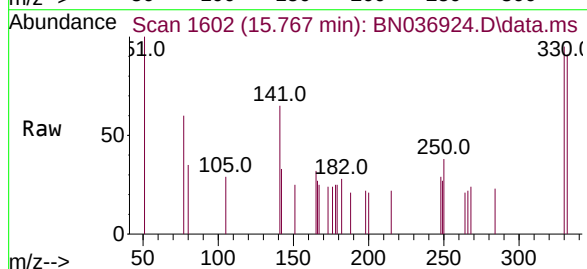
Tgt Ion:164 Resp: 323
Ion Ratio Lower Upper
164 100
162 106.7 83.8 125.8
160 53.6 42.0 63.0

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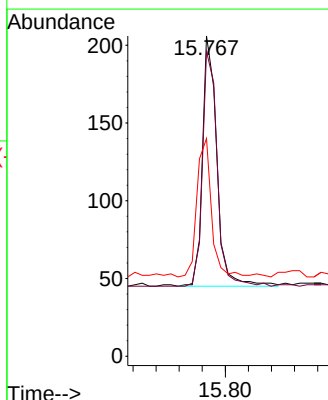
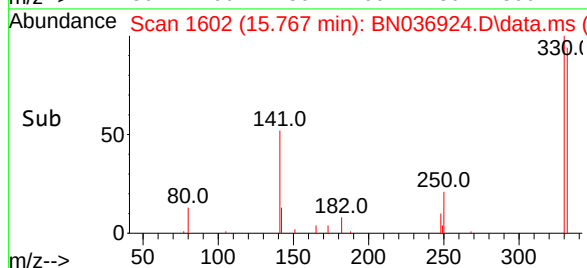
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

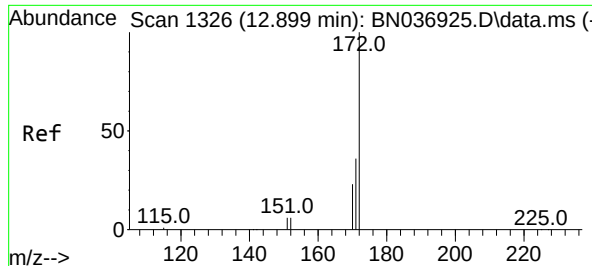


#14
2,4,6-Tribromophenol
Concen: 0.197 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11



Tgt Ion:330 Resp: 279
Ion Ratio Lower Upper
330 100
332 95.7 76.3 114.5
141 55.9 45.4 68.2





#15

2-Fluorobiphenyl

Concen: 0.204 ng

RT: 12.899 min Scan# 1439

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

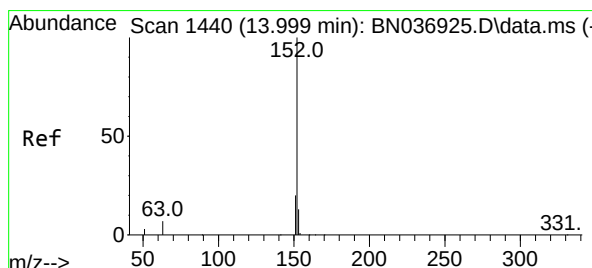
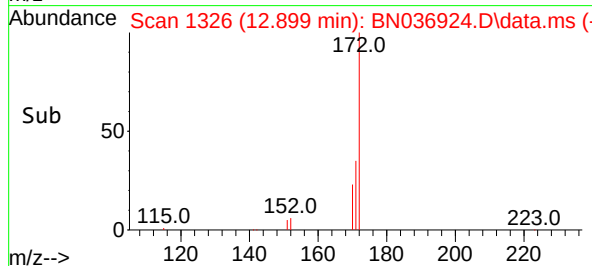
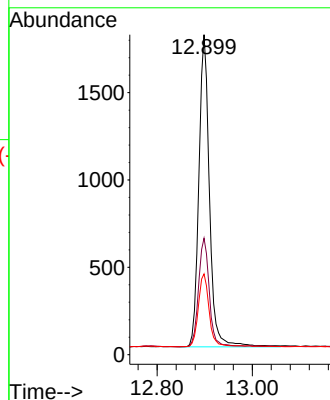
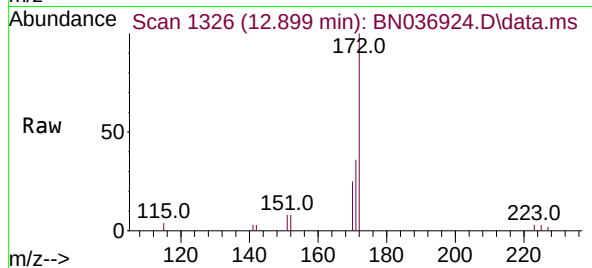
SSTDIC0.2

Tgt Ion:	172	Resp:	319
Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.4	44.0
170	25.3	19.4	29.0

Manual Integrations
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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#16

Acenaphthylene

Concen: 0.191 ng

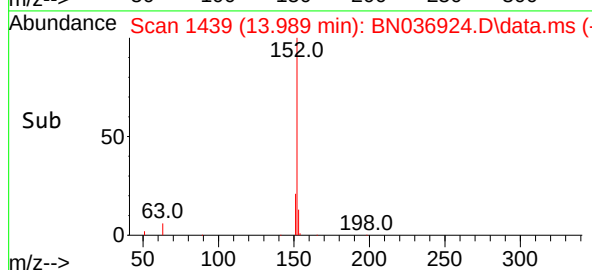
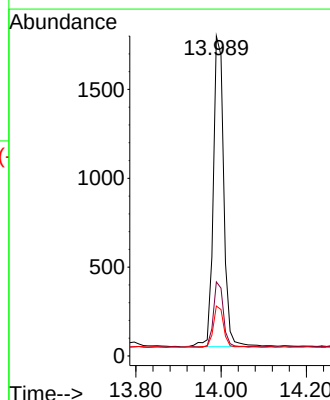
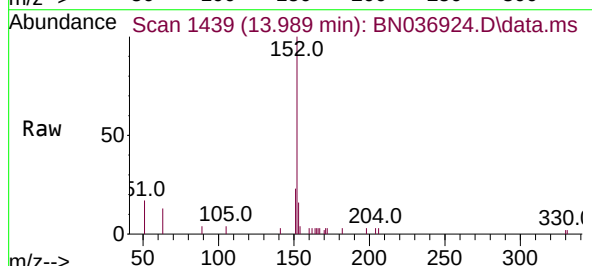
RT: 13.989 min Scan# 1439

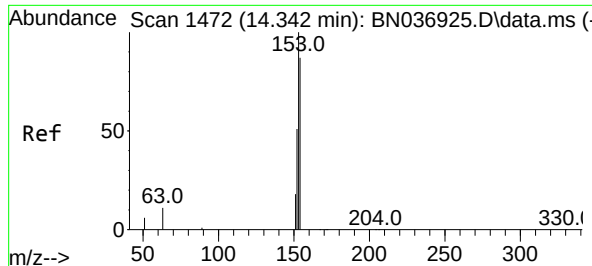
Delta R.T. -0.011 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

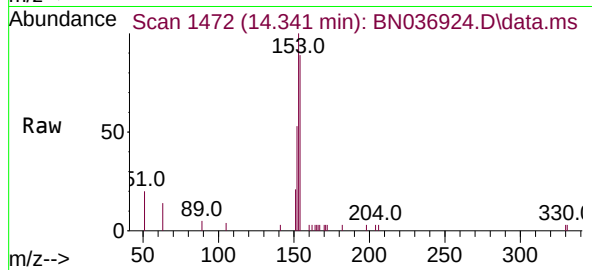
Tgt Ion:	152	Resp:	2990
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.0	24.0
153	12.8	10.2	15.2





#17
Acenaphthene
Concen: 0.198 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

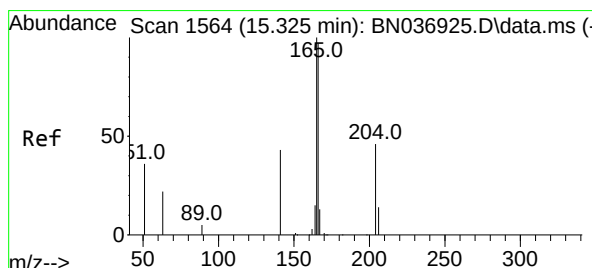
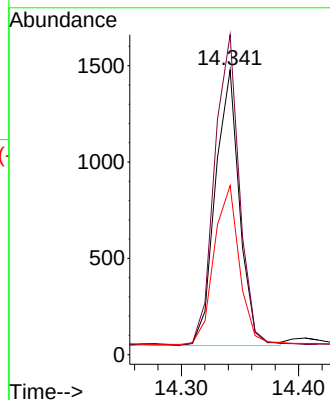
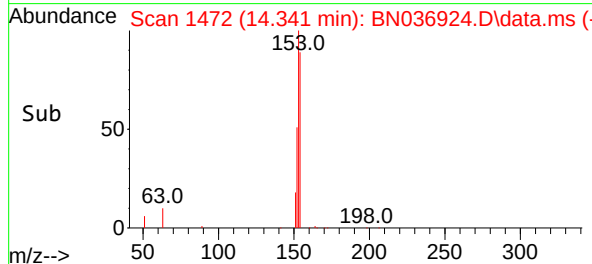
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 205
Ion Ratio Lower Upper
154 100
153 115.1 93.4 140.2
152 60.9 49.5 74.3

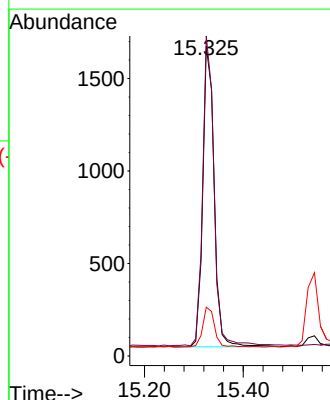
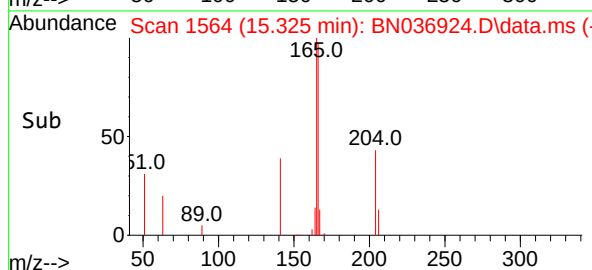
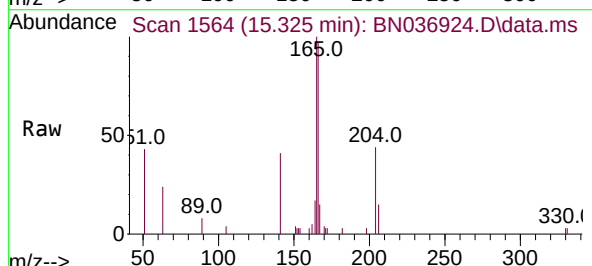
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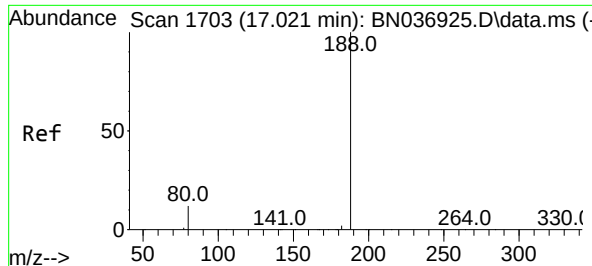
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#18
Fluorene
Concen: 0.193 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:166 Resp: 2605
Ion Ratio Lower Upper
166 100
165 101.9 80.8 121.2
167 14.0 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:188 Resp: 623

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

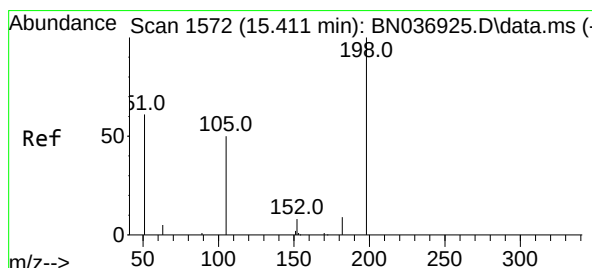
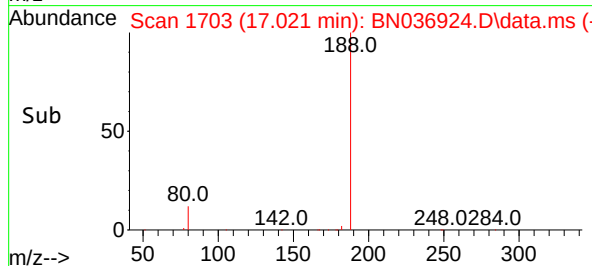
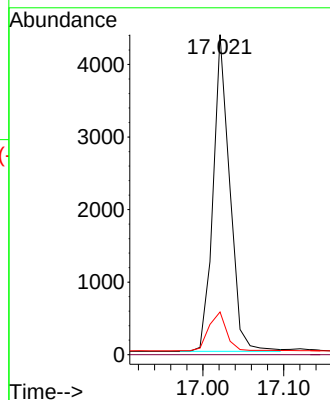
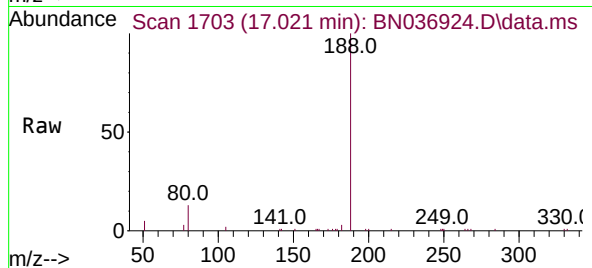
80 13.4 10.7 16.1

Manual Integrations

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.165 ng

RT: 15.411 min Scan# 1572

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

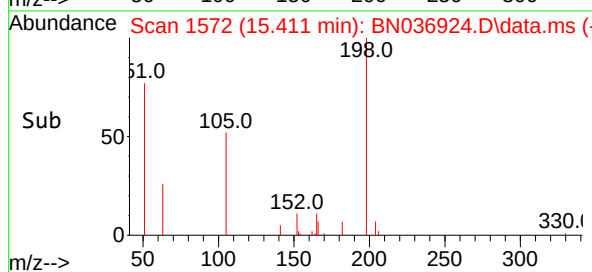
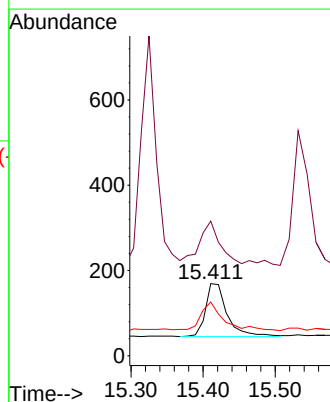
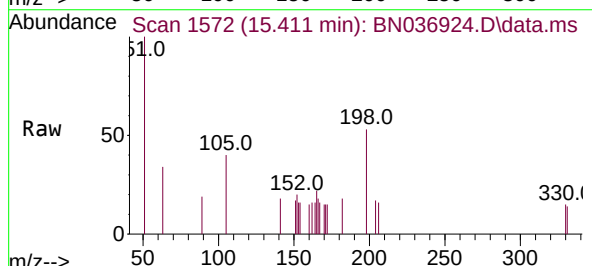
Tgt Ion:198 Resp: 258

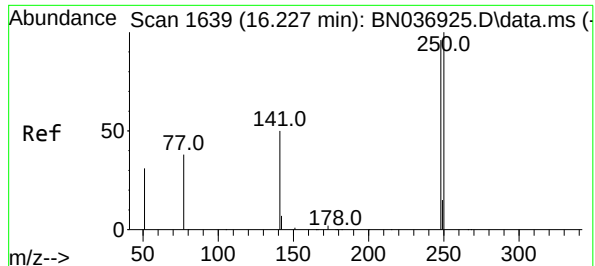
Ion Ratio Lower Upper

198 100

51 187.0 97.9 146.9#

105 74.6 50.0 75.0





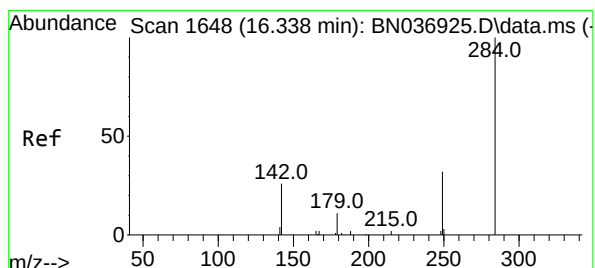
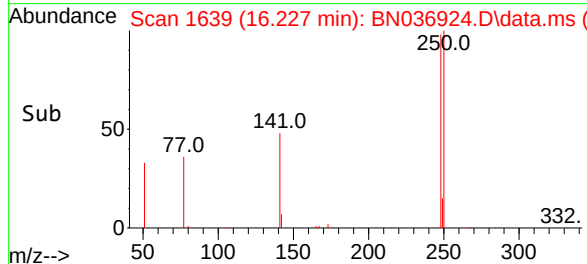
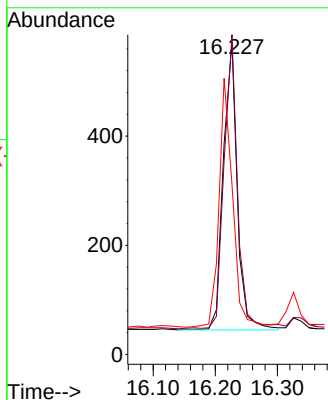
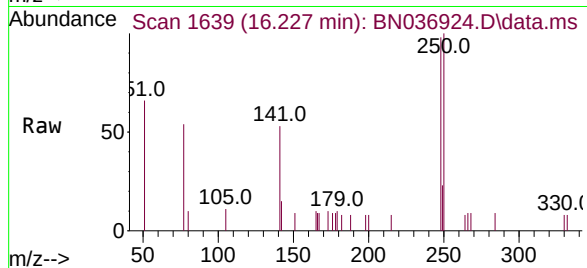
#21
4-Bromophenyl-phenylether
Concen: 0.197 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 819
Ion Ratio Lower Upper
248 100
250 102.4 83.7 125.5
141 54.5 43.8 65.8

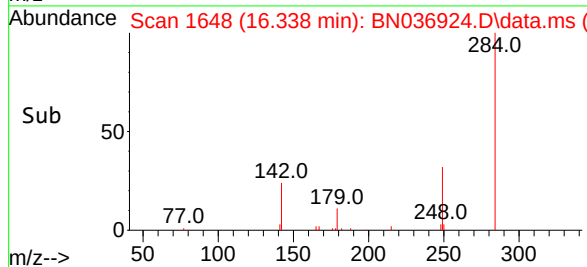
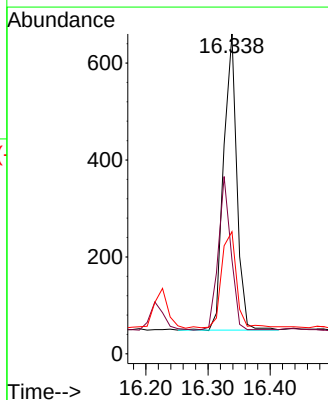
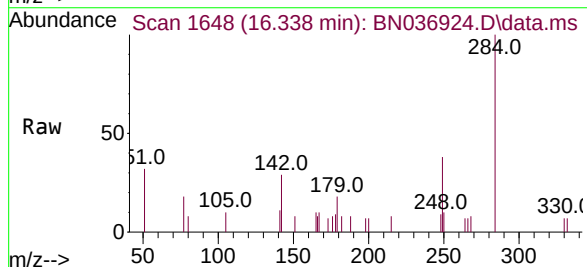
Manual Integrations
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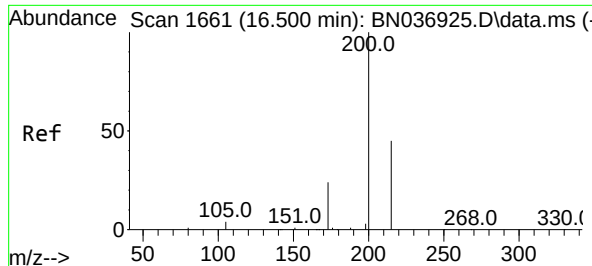
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#22
Hexachlorobenzene
Concen: 0.196 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

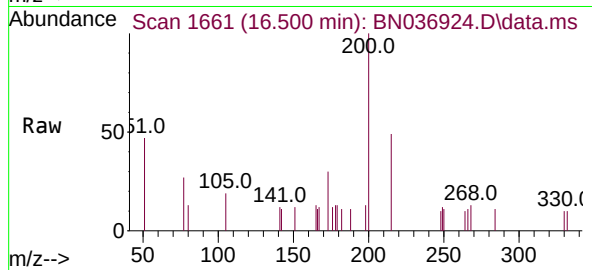
Tgt Ion:284 Resp: 900
Ion Ratio Lower Upper
284 100
142 49.8 40.0 60.0
249 37.0 28.2 42.2





#23
Atrazine
Concen: 0.189 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

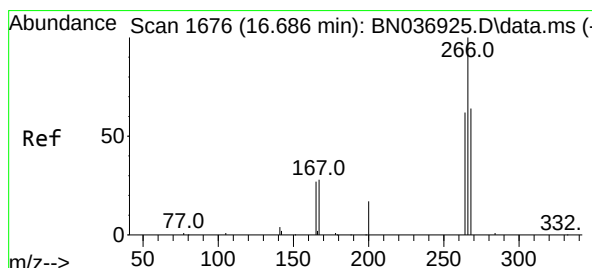
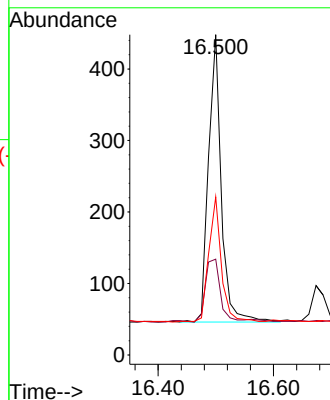
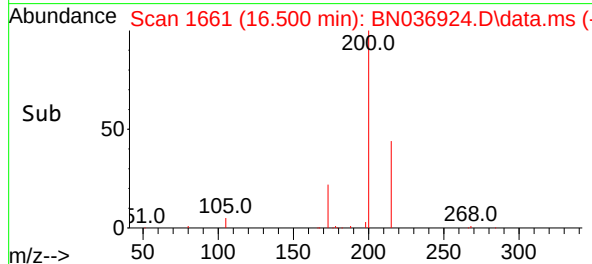
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:200 Resp: 618
Ion Ratio Lower Upper
200 100
173 29.9 22.4 33.6
215 49.3 38.6 57.8

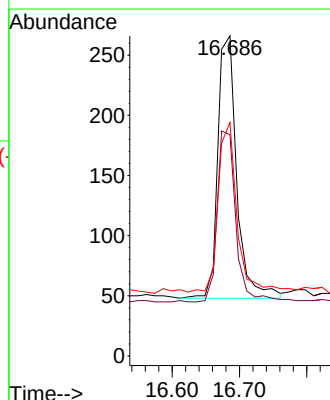
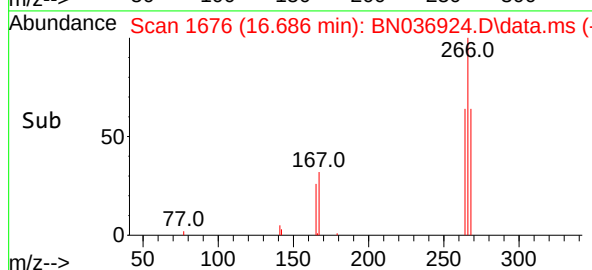
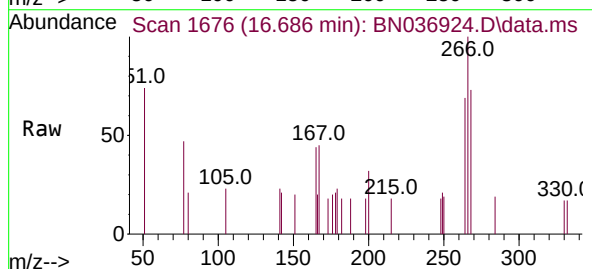
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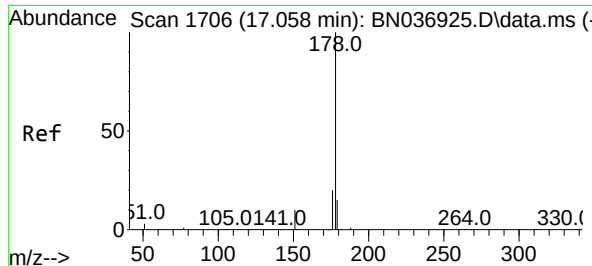
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#24
Pentachlorophenol
Concen: 0.178 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

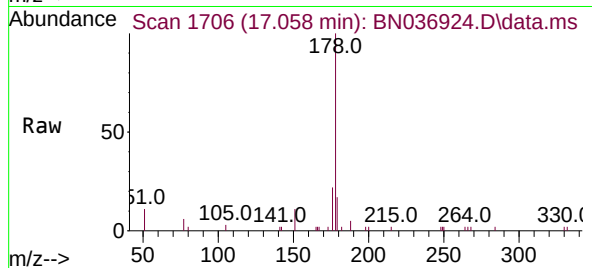
Tgt Ion:266 Resp: 425
Ion Ratio Lower Upper
266 100
264 64.5 49.9 74.9
268 66.8 52.2 78.4





#25
Phenanthrene
Concen: 0.194 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

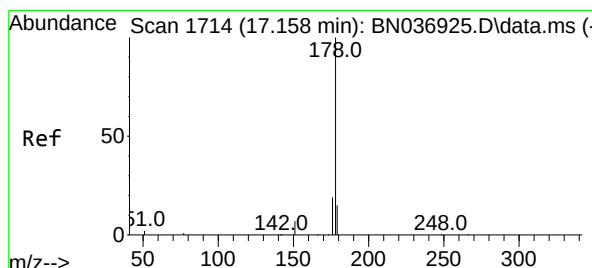
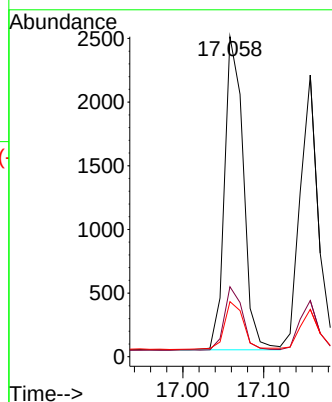
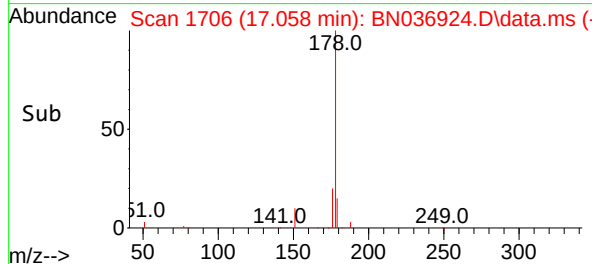
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:178 Resp: 3972
Ion Ratio Lower Upper
178 100
176 19.9 15.7 23.5
179 15.5 12.4 18.6

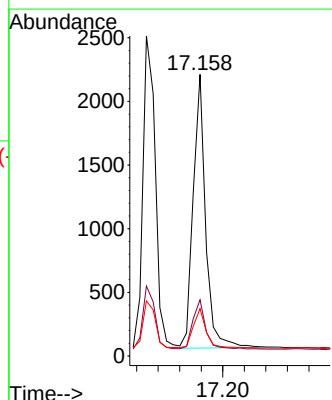
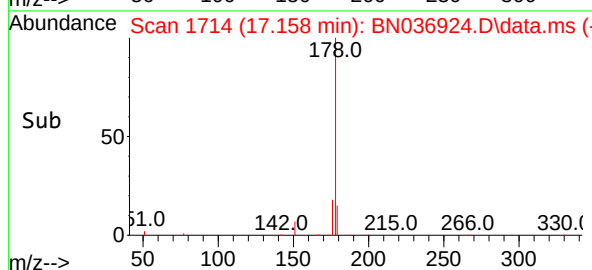
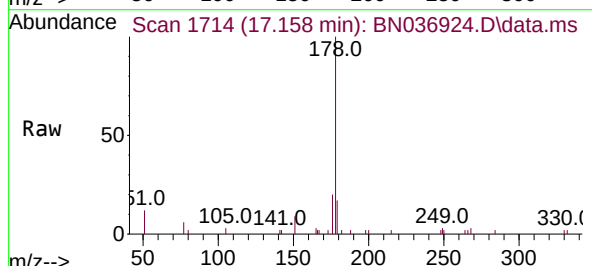
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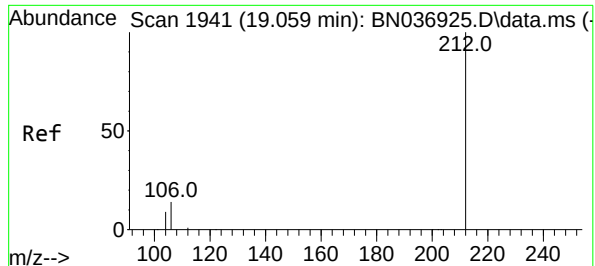
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#26
Anthracene
Concen: 0.188 ng
RT: 17.158 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:178 Resp: 3454
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.2 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.196 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

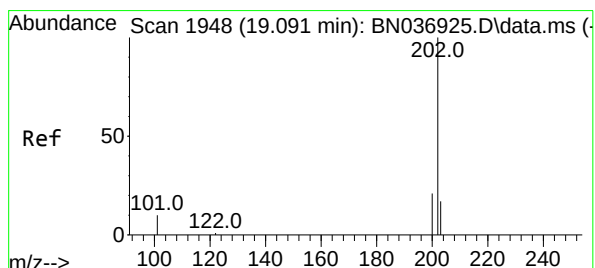
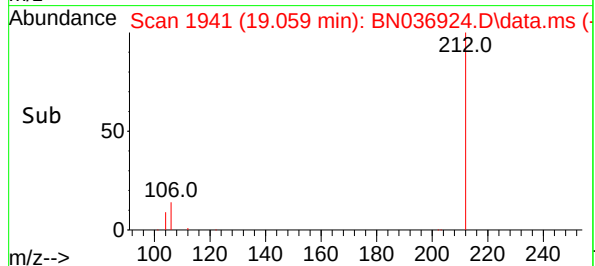
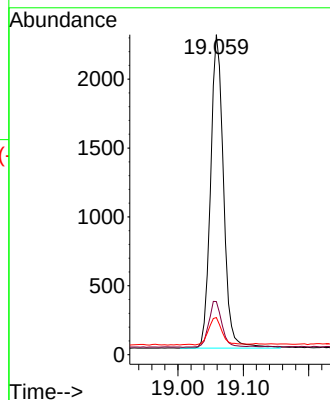
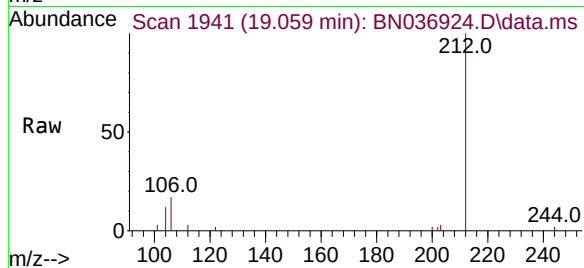
SSTDIC0.2

Tgt Ion:	212	Resp:	3130
Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.6	17.4
104	9.0	7.0	10.4

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#28

Fluoranthene

Concen: 0.189 ng

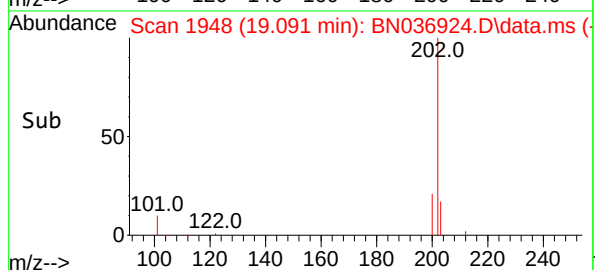
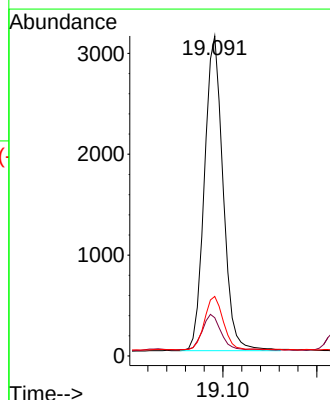
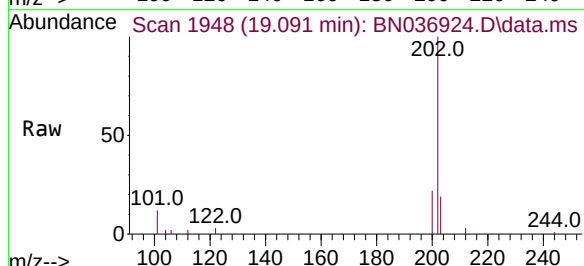
RT: 19.091 min Scan# 1948

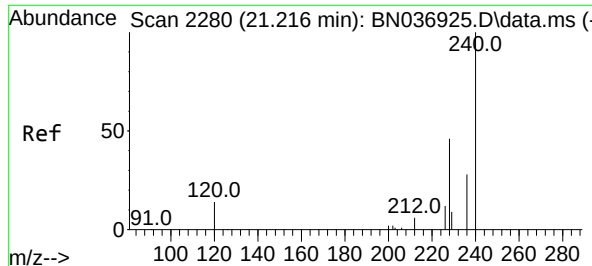
Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Tgt Ion:	202	Resp:	4305
Ion	Ratio	Lower	Upper
202	100		
101	11.2	8.5	12.7
203	17.4	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.216 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

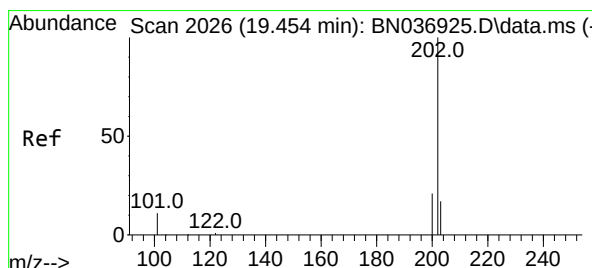
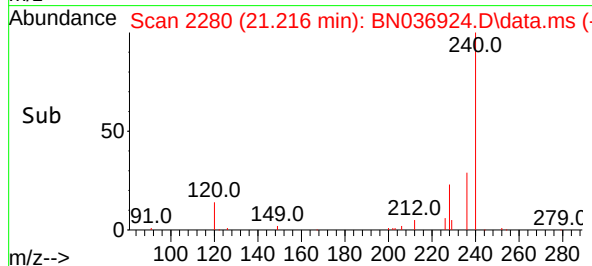
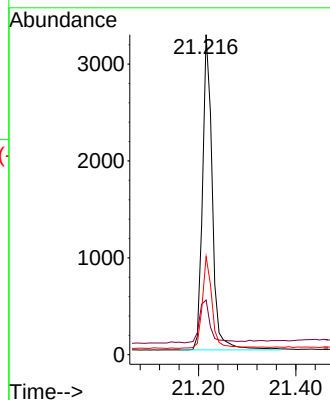
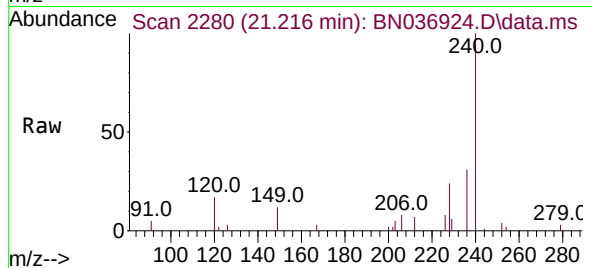
Tgt Ion:240 Resp: 453

Ion	Ratio	Lower	Upper
240	100		
120	17.1	14.1	21.1
236	30.7	23.8	35.8

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#30

Pyrene

Concen: 0.200 ng

RT: 19.454 min Scan# 2026

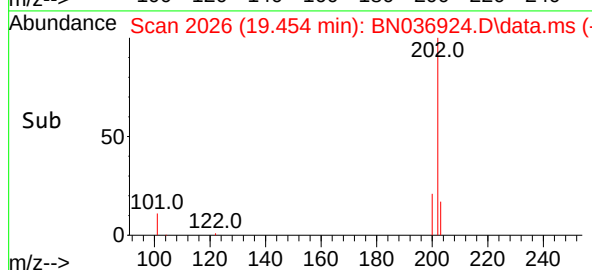
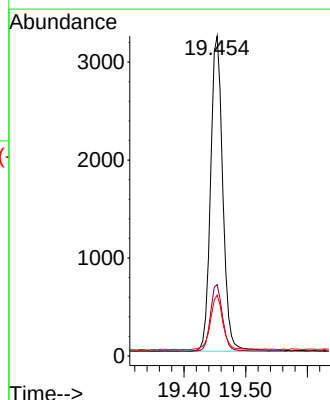
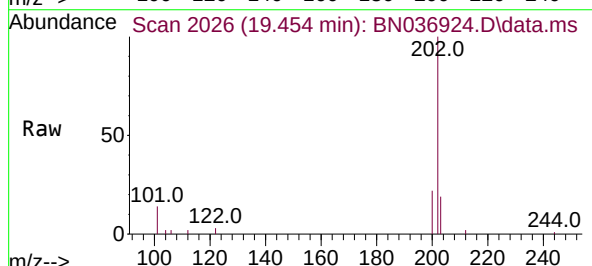
Delta R.T. -0.000 min

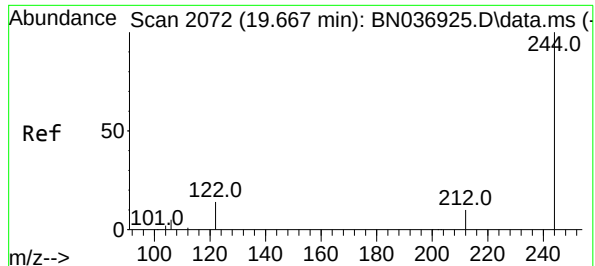
Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Tgt Ion:202 Resp: 4403

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.6
203	17.8	14.0	21.0





#31
Terphenyl-d14
Concen: 0.198 ng
RT: 19.667 min Scan# 2072
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

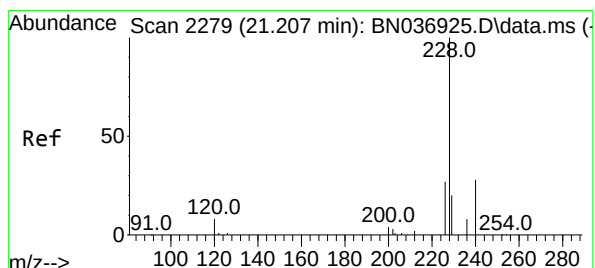
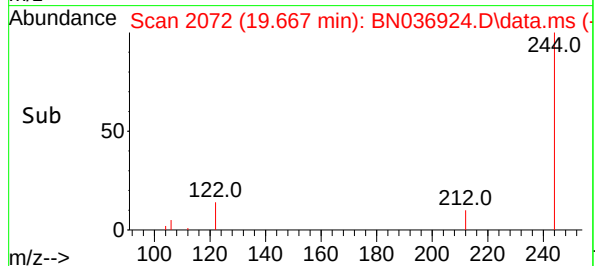
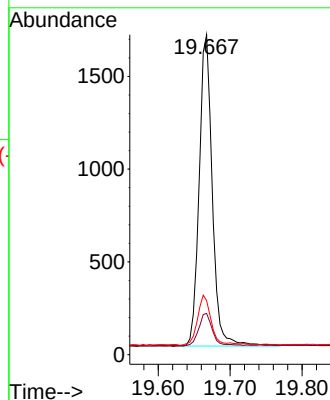
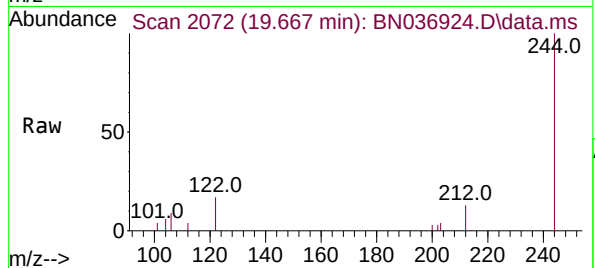
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.6	14.4
122	16.9	12.7	19.1

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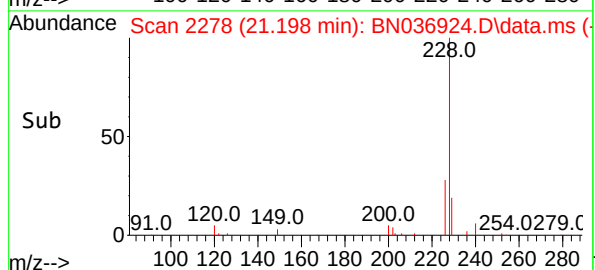
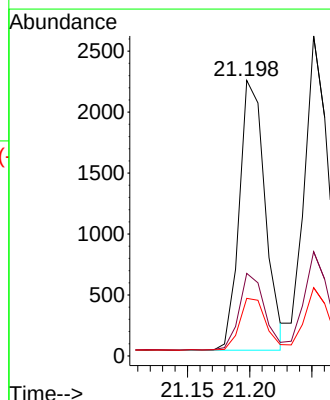
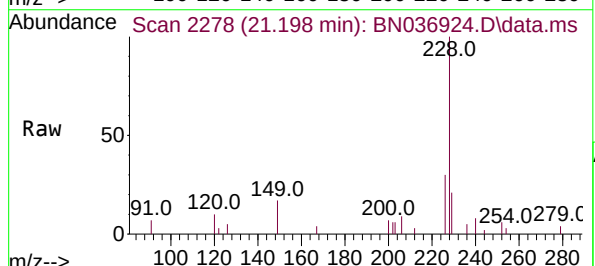
Reviewed By :Rahul Chavli 04/29/2025

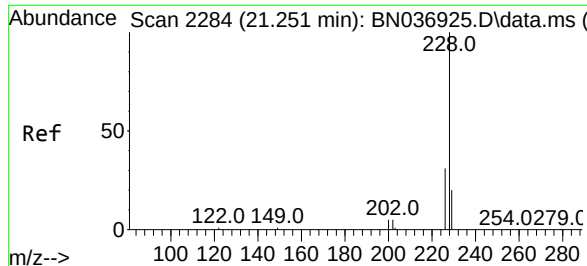
Supervised By :Jagrut Upadhyay 04/29/2025



#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

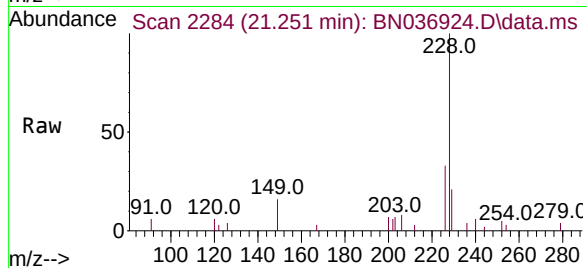
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	22.2	33.4
229	20.9	16.4	24.6





#33
Chrysene
Concen: 0.197 ng
RT: 21.251 min Scan# 2128
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

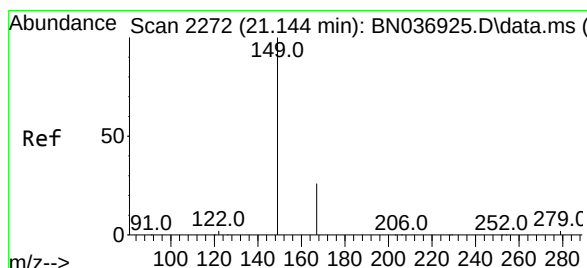
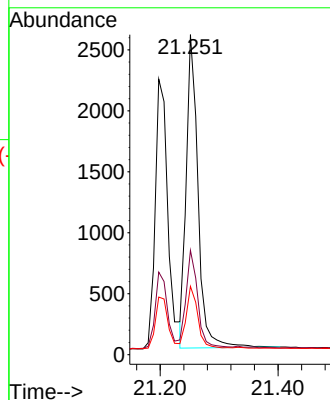
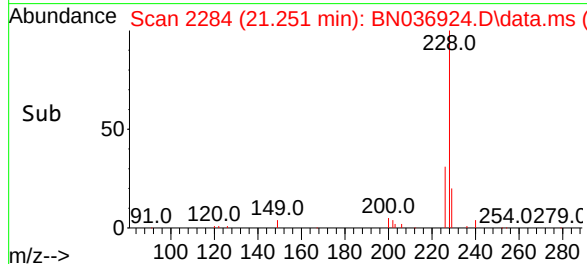
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 228 Resp: 3574
Ion Ratio Lower Upper
228 100
226 32.6 25.5 38.3
229 21.3 16.5 24.7

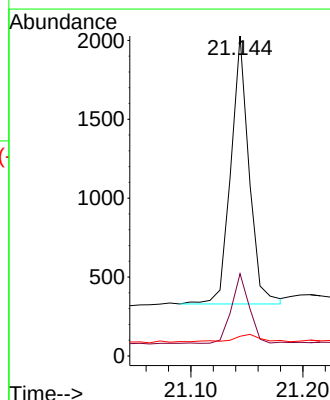
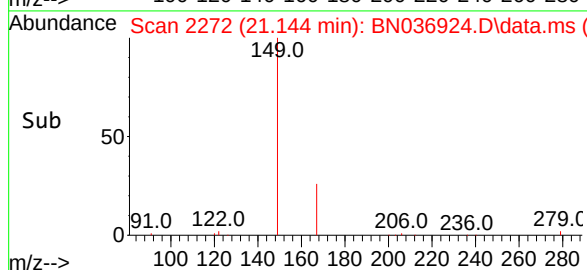
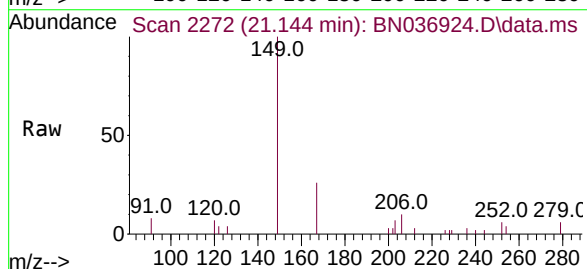
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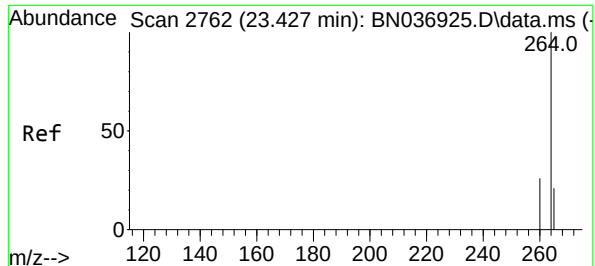
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.203 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

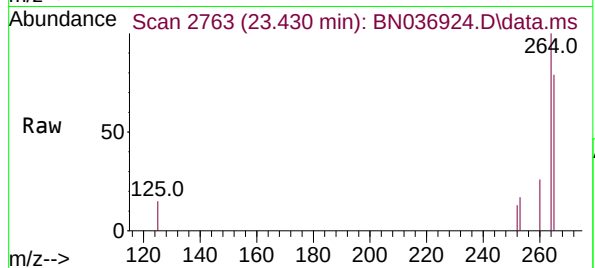
Tgt Ion: 149 Resp: 1921
Ion Ratio Lower Upper
149 100
167 25.4 21.0 31.6
279 3.9 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.430 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

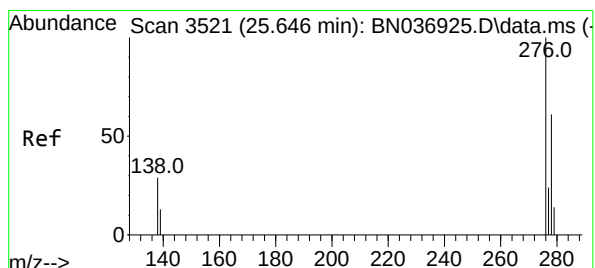
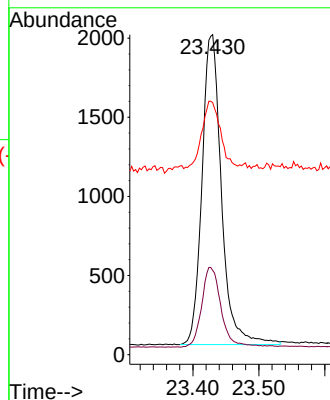
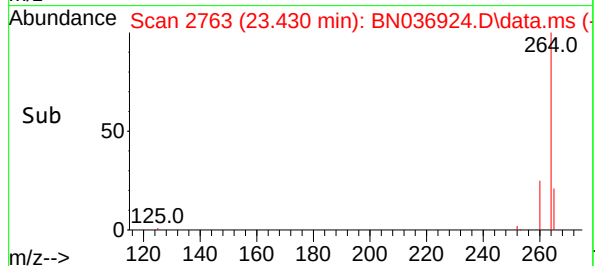
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2



Tgt Ion:264 Resp: 4020
Ion Ratio Lower Upper
264 100
260 26.4 22.2 33.2
265 78.7 65.8 98.6

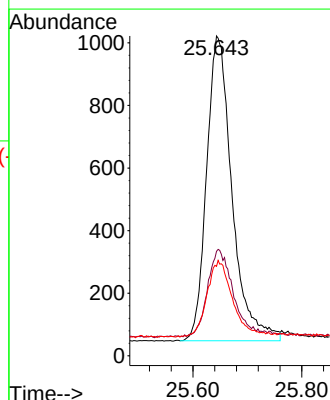
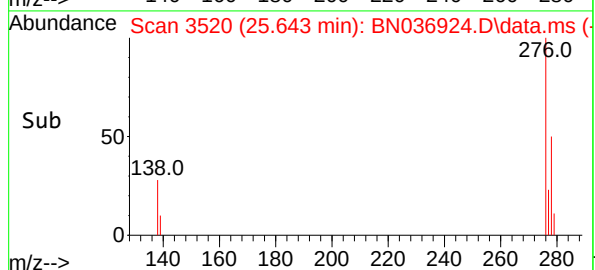
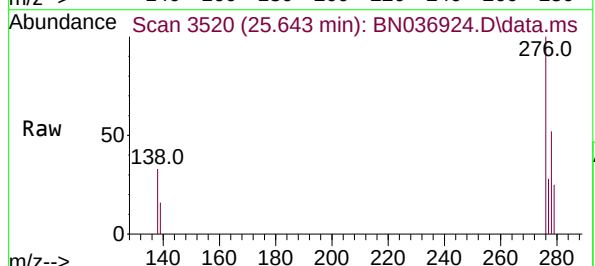
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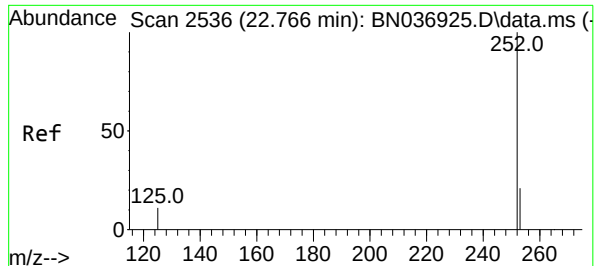
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.192 ng
RT: 25.643 min Scan# 3520
Delta R.T. -0.003 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:276 Resp: 3163
Ion Ratio Lower Upper
276 100
138 28.4 23.0 34.6
277 25.2 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.187 ng

RT: 22.766 min Scan# 2536

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

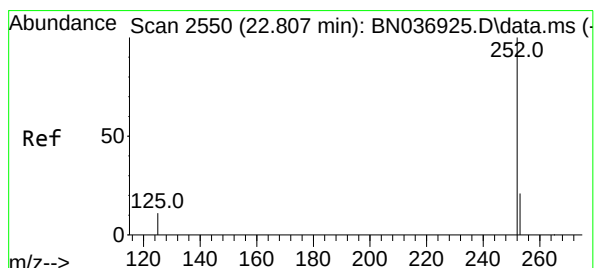
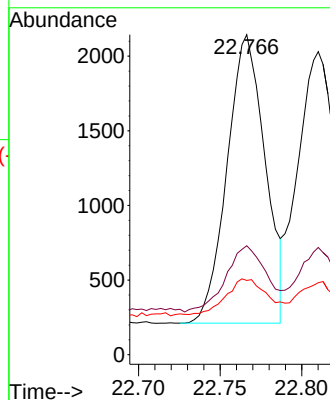
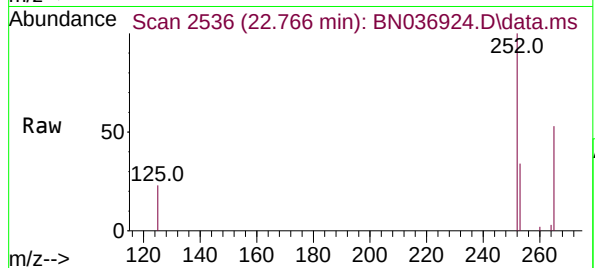
Tgt Ion:252	Resp:	3124
Ion Ratio	Lower	Upper
252	100	
253	34.0	22.1 33.1
125	23.2	14.2 21.2

Manual Integrations

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#38

Benzo(k)fluoranthene

Concen: 0.187 ng

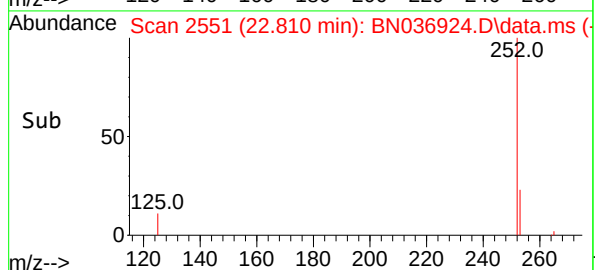
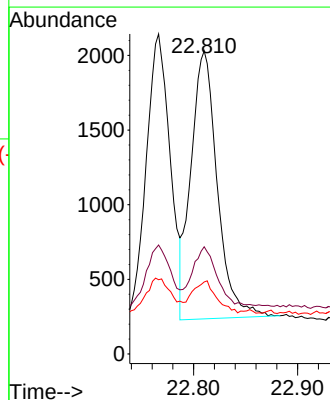
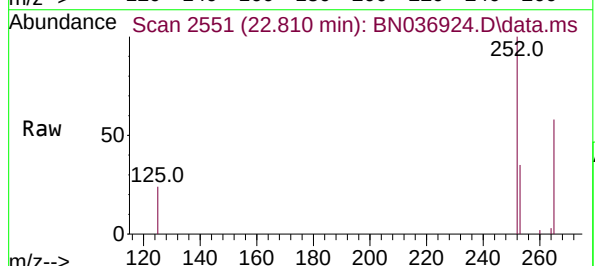
RT: 22.810 min Scan# 2551

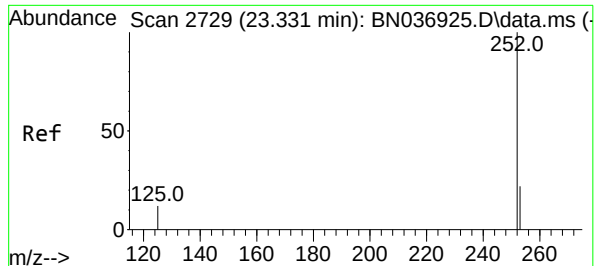
Delta R.T. 0.003 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Tgt Ion:252	Resp:	3158
Ion Ratio	Lower	Upper
252	100	
253	35.4	22.8 34.2
125	23.8	14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.190 ng

RT: 23.328 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

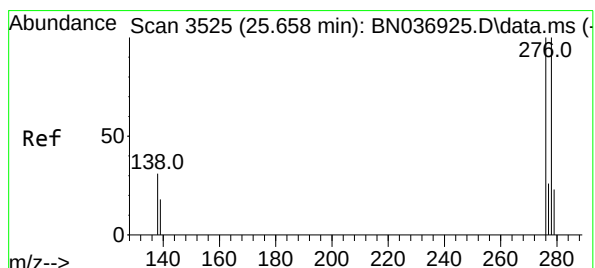
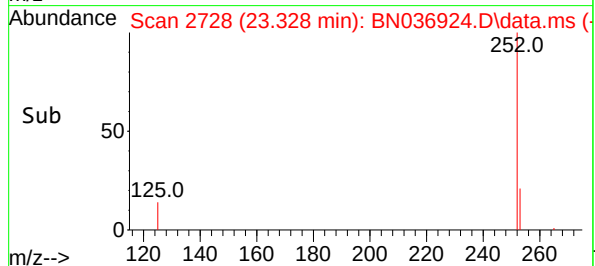
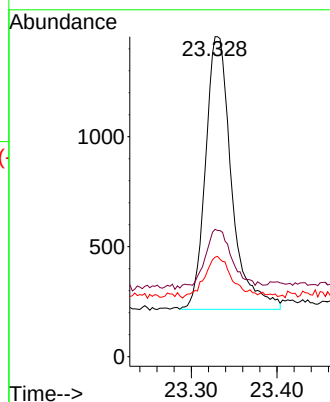
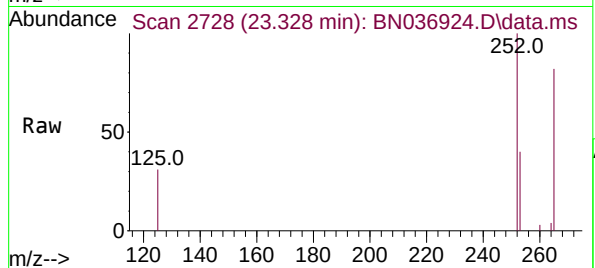
Tgt Ion:252	Resp:	2619
Ion Ratio	Lower	Upper
252	100	
253	39.8	25.9 38.9
125	31.1	17.4 26.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.193 ng

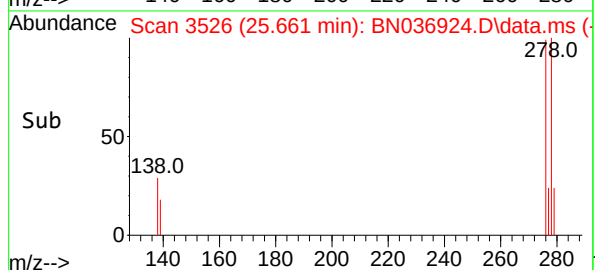
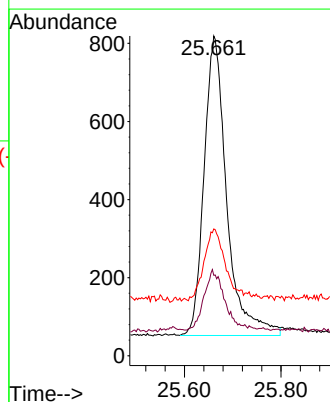
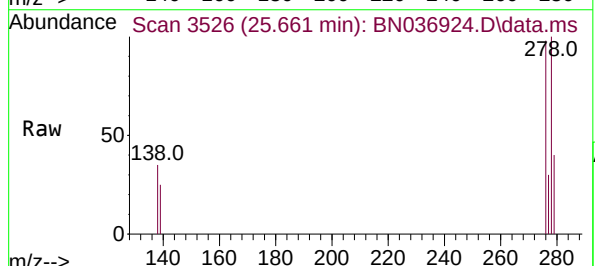
RT: 25.661 min Scan# 3526

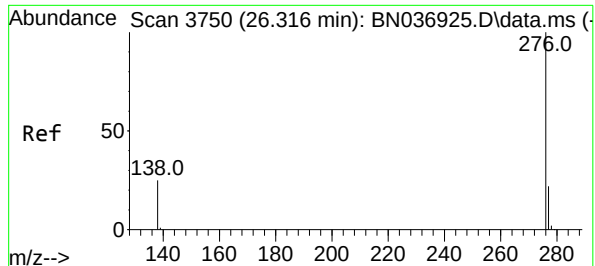
Delta R.T. 0.003 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

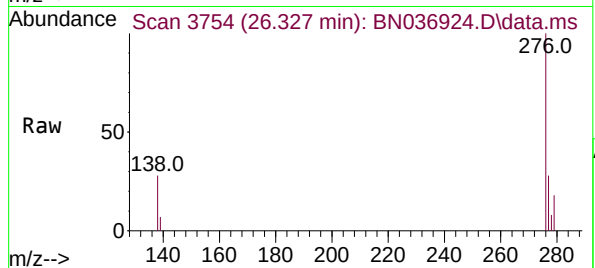
Tgt Ion:278	Resp:	2498
Ion Ratio	Lower	Upper
278	100	
139	25.2	17.4 26.2
279	39.7	24.9 37.3





#41
Benzo(g,h,i)perylene
Concen: 0.195 ng
RT: 26.327 min Scan# 31
Delta R.T. 0.012 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

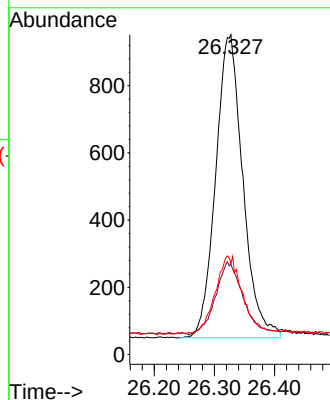
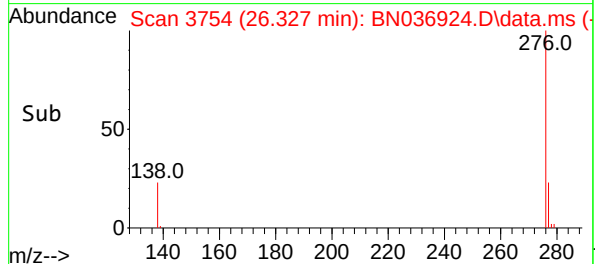
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 276 Resp: 2828
Ion Ratio Lower Upper
276 100
277 28.3 20.2 30.2
138 28.5 21.9 32.9

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036925.D
 Acq On : 28 Apr 2025 12:47
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Apr 28 15:12:49 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

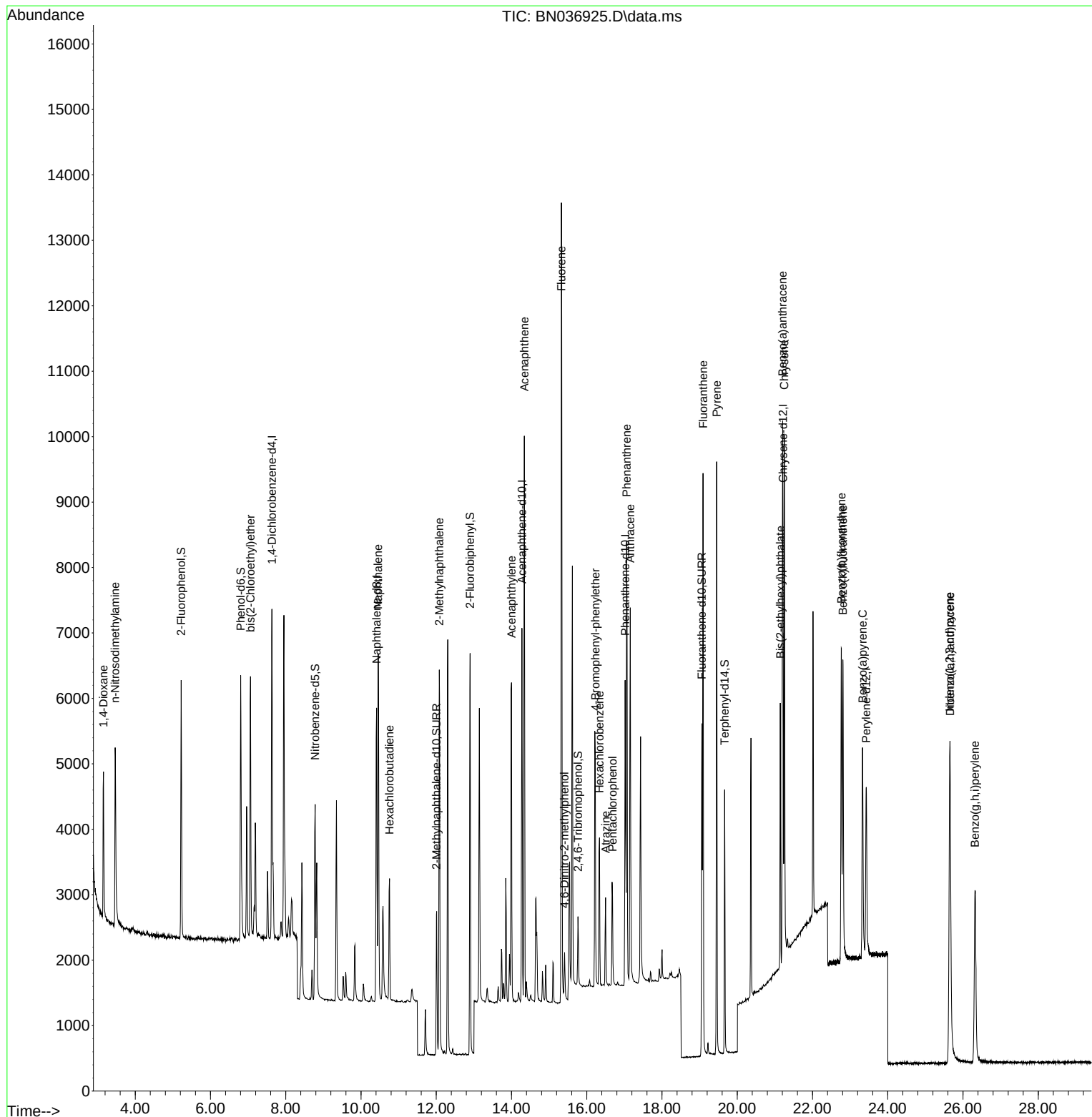
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2374	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5831	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3051	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5711	0.400	ng	0.00
29) Chrysene-d12	21.216	240	4119	0.400	ng	0.00
35) Perylene-d12	23.427	264	3630	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	2654	0.433	ng	0.00
5) Phenol-d6	6.802	99	3175	0.425	ng	0.00
8) Nitrobenzene-d5	8.781	82	2394	0.395	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	3153	0.390	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	540	0.404	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	6270	0.425	ng	0.00
27) Fluoranthene-d10	19.059	212	5661	0.387	ng	0.00
31) Terphenyl-d14	19.667	244	3895	0.397	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	1309	0.437	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.466	42	2398	0.414	ng	100
6) bis(2-Chloroethyl)ether	7.062	93	2778	0.401	ng	100
9) Naphthalene	10.458	128	6735	0.397	ng	100
10) Hexachlorobutadiene	10.757	225	1476	0.399	ng	# 100
12) 2-Methylnaphthalene	12.082	142	4195	0.386	ng	100
16) Acenaphthylene	13.999	152	5817	0.394	ng	100
17) Acenaphthene	14.342	154	3889	0.398	ng	100
18) Fluorene	15.325	166	4955	0.390	ng	100
20) 4,6-Dinitro-2-methylph...	15.411	198	516	0.361	ng	100
21) 4-Bromophenyl-phenylether	16.227	248	1494	0.393	ng	100
22) Hexachlorobenzene	16.338	284	1714	0.408	ng	100
23) Atrazine	16.500	200	1139	0.380	ng	100
24) Pentachlorophenol	16.686	266	824	0.378	ng	100
25) Phenanthrene	17.058	178	7417	0.395	ng	100
26) Anthracene	17.158	178	6553	0.390	ng	100
28) Fluoranthene	19.091	202	7988	0.384	ng	100
30) Pyrene	19.454	202	8067	0.403	ng	100
32) Benzo(a)anthracene	21.207	228	5885	0.392	ng	100
33) Chrysene	21.251	228	6742	0.410	ng	100
34) Bis(2-ethylhexyl)phtha...	21.144	149	3434	0.400	ng	100
36) Indeno(1,2,3-cd)pyrene	25.646	276	6214	0.418	ng	100
37) Benzo(b)fluoranthene	22.766	252	5932	0.394	ng	100
38) Benzo(k)fluoranthene	22.807	252	5983	0.393	ng	100
39) Benzo(a)pyrene	23.331	252	4940	0.398	ng	100
40) Dibenzo(a,h)anthracene	25.658	278	4897	0.419	ng	100
41) Benzo(g,h,i)perylene	26.316	276	5500	0.420	ng	100

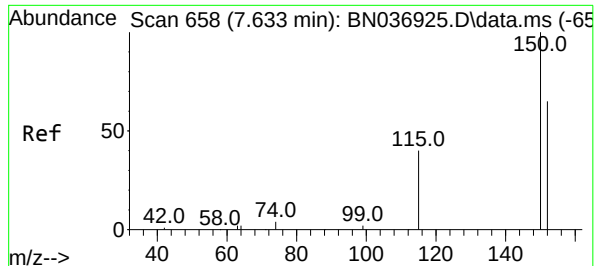
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036925.D
Acq On : 28 Apr 2025 12:47
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Apr 28 15:12:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

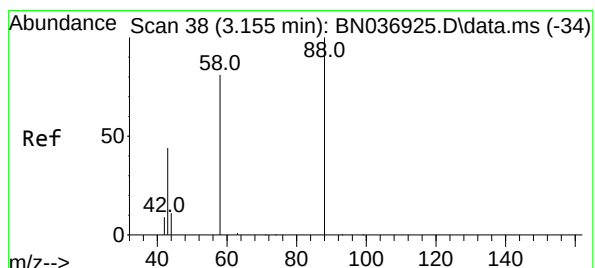
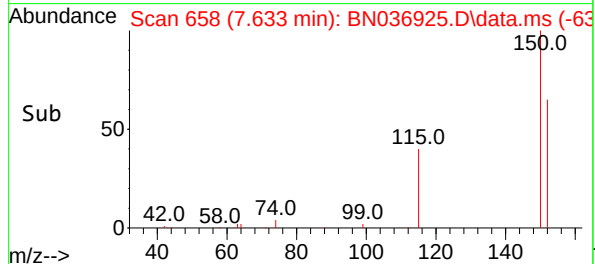
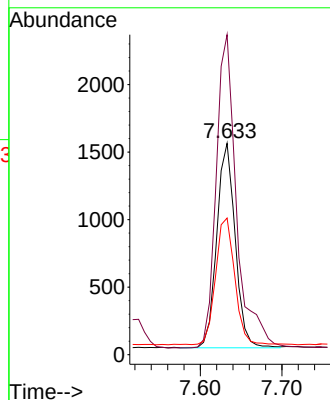
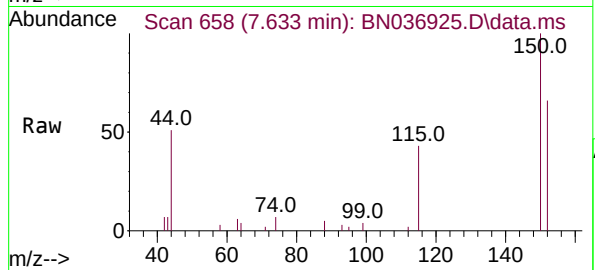




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

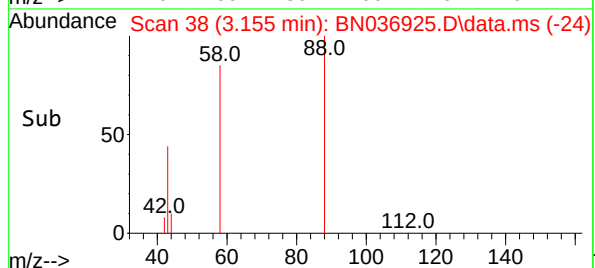
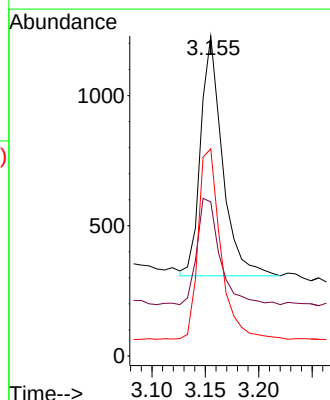
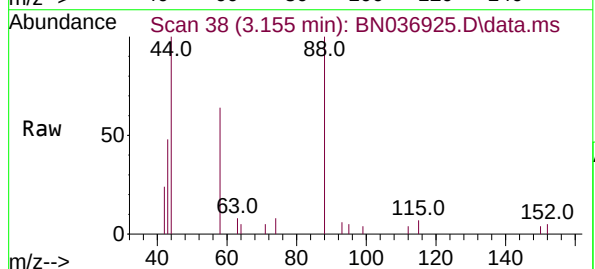
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

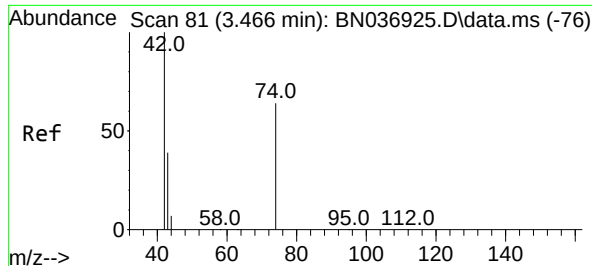
Tgt Ion:152 Resp: 2374
Ion Ratio Lower Upper
152 100
150 151.4 121.1 181.7
115 64.7 51.8 77.6



#2
1,4-Dioxane
Concen: 0.437 ng
RT: 3.155 min Scan# 38
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion: 88 Resp: 1309
Ion Ratio Lower Upper
88 100
43 47.4 37.9 56.9
58 82.2 65.8 98.6

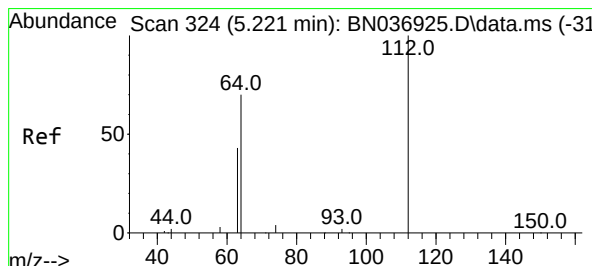
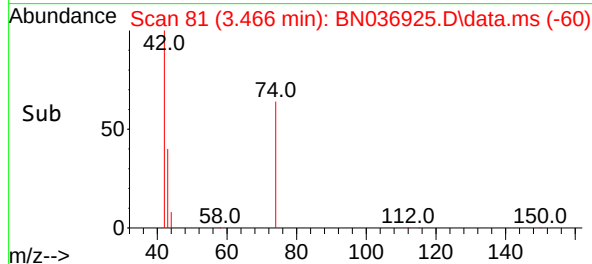
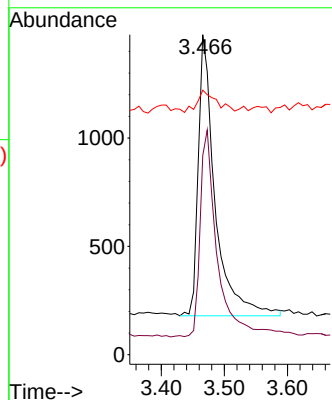
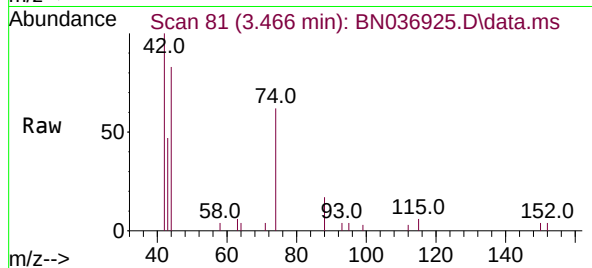




#3
n-Nitrosodimethylamine
Concen: 0.414 ng
RT: 3.466 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

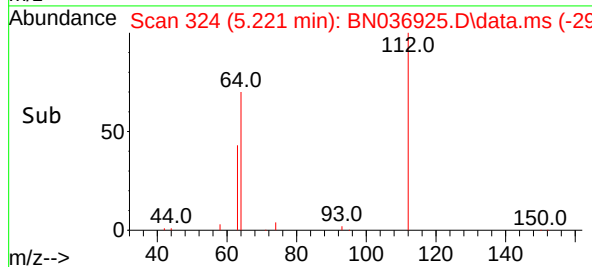
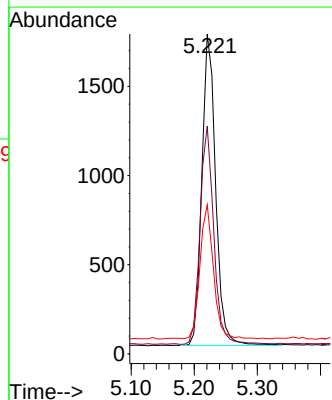
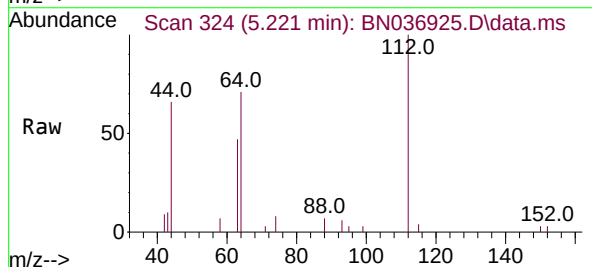
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

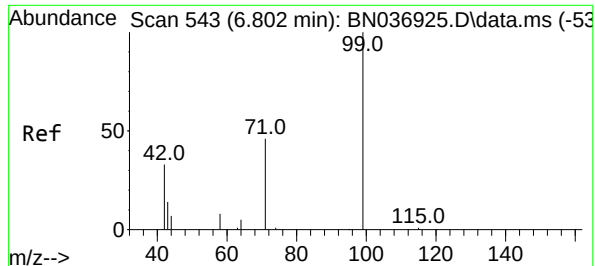
Tgt Ion: 42 Resp: 2398
Ion Ratio Lower Upper
42 100
74 74.9 59.9 89.9
44 9.4 7.5 11.3



#4
2-Fluorophenol
Concen: 0.433 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion: 112 Resp: 2654
Ion Ratio Lower Upper
112 100
64 69.6 55.7 83.5
63 42.4 33.9 50.9

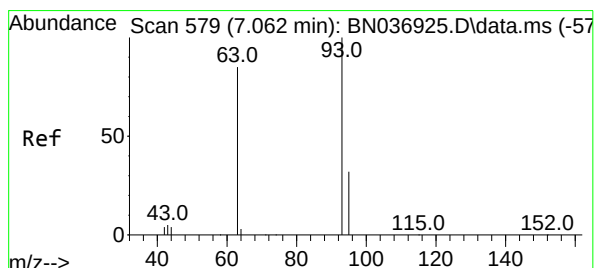
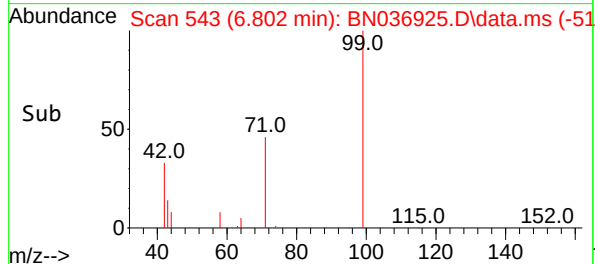
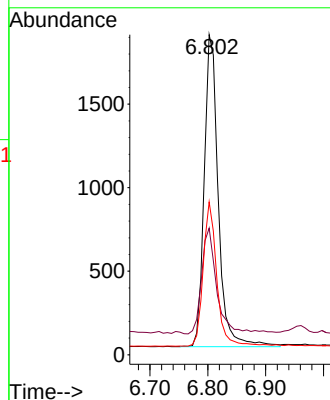
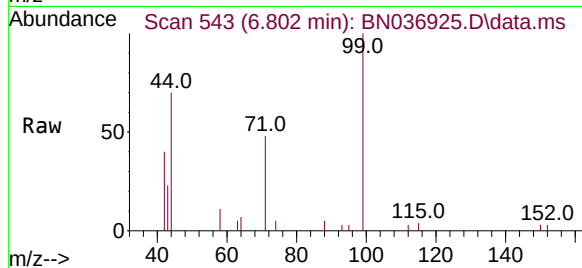




#5
Phenol-d6
Concen: 0.425 ng
RT: 6.802 min Scan# 543
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

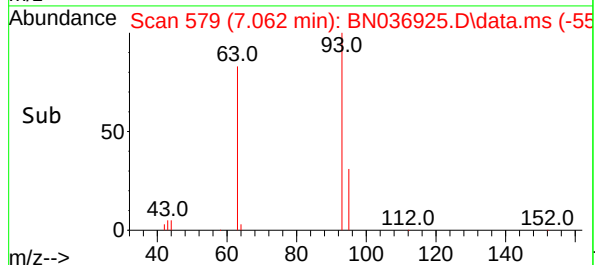
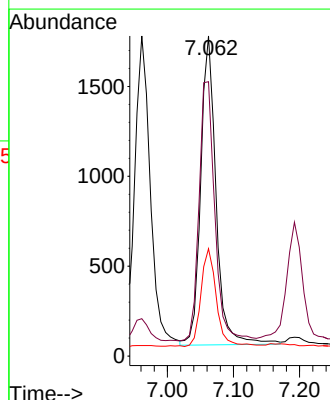
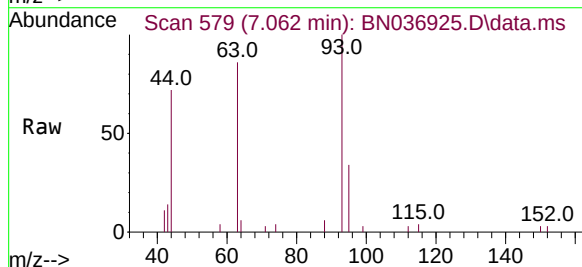
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

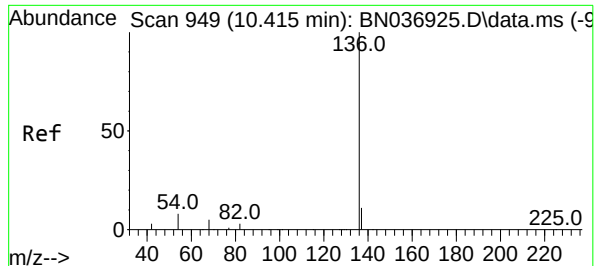
Tgt Ion	Ratio	Lower	Upper
99	100		
42	37.0	29.6	44.4
71	45.0	36.0	54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.401 ng
RT: 7.062 min Scan# 579
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
93	100		
63	86.3	69.0	103.6
95	31.7	25.4	38.0

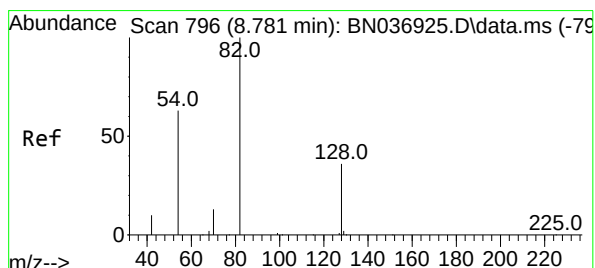
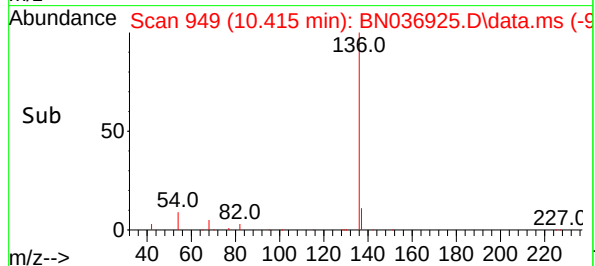
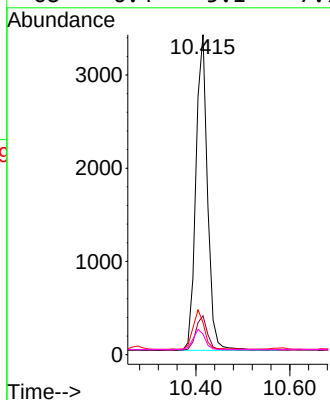
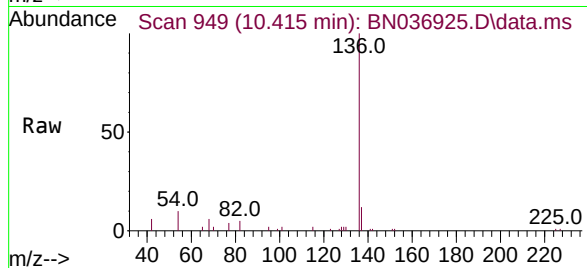




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

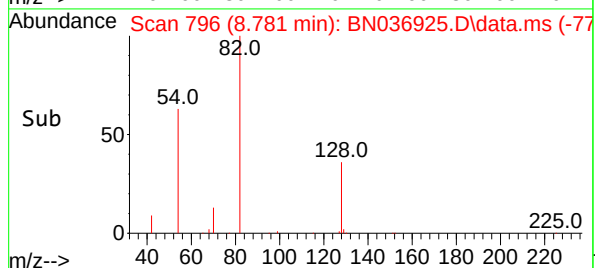
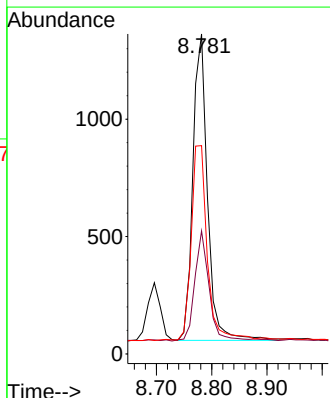
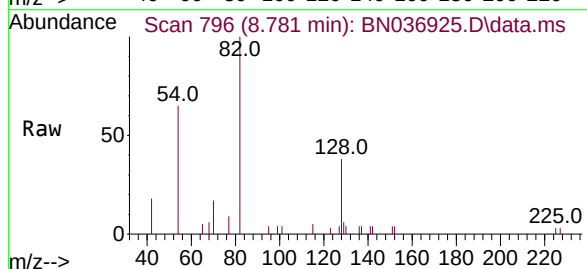
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

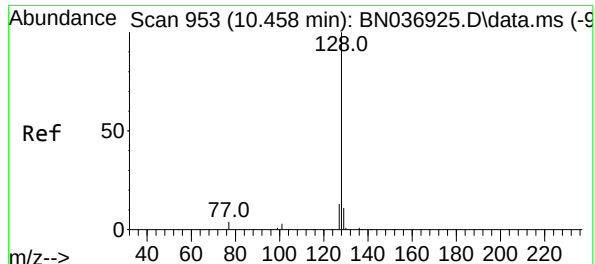
Tgt Ion:	136	Resp:	5831
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	10.0	8.0	12.0
68	6.4	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.395 ng
RT: 8.781 min Scan# 796
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:	82	Resp:	2394
Ion	Ratio	Lower	Upper
82	100		
128	38.4	30.7	46.1
54	65.1	52.1	78.1

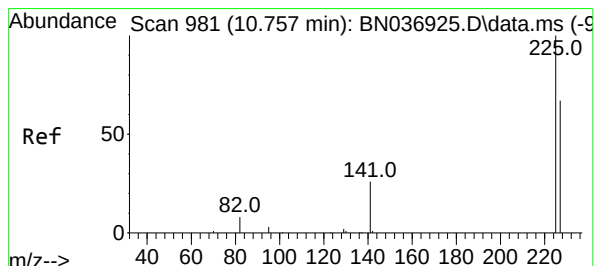
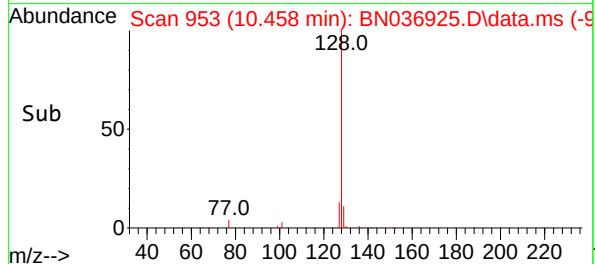
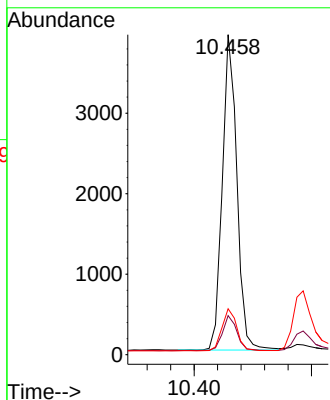
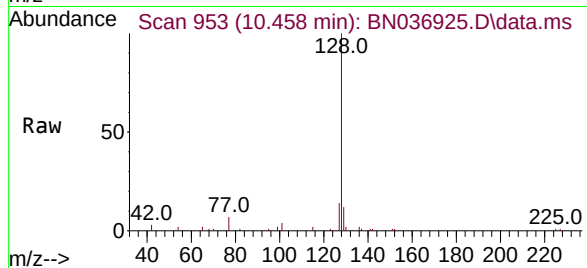




#9
Naphthalene
Concen: 0.397 ng
RT: 10.458 min Scan# 953
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

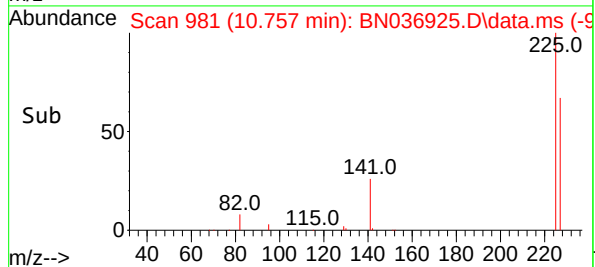
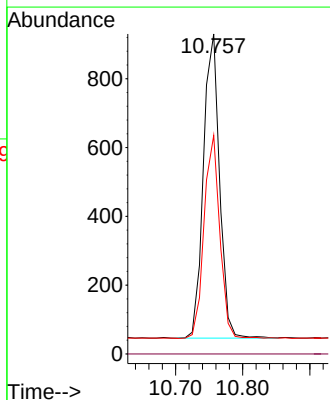
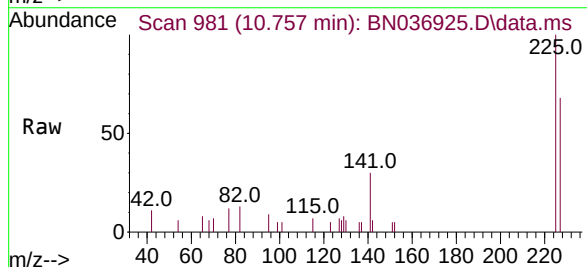
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

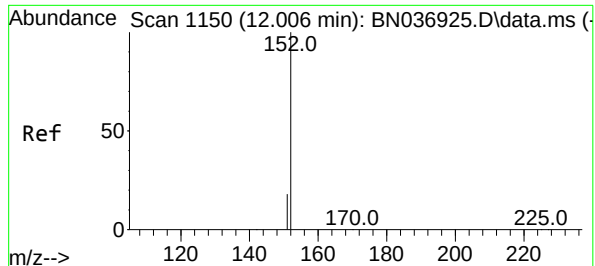
Tgt Ion:128 Resp: 6735
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.3 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.399 ng
RT: 10.757 min Scan# 981
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:225 Resp: 1476
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.3 52.2 78.4

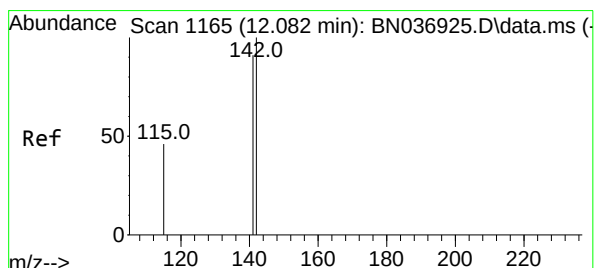
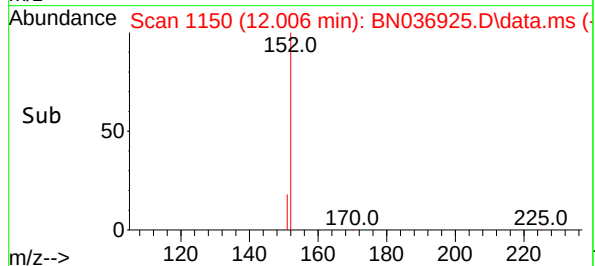
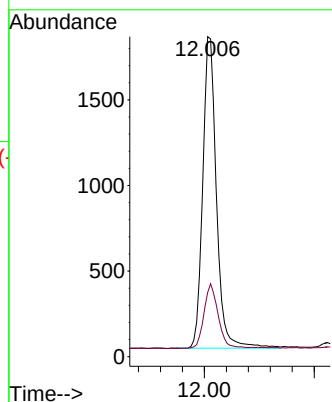
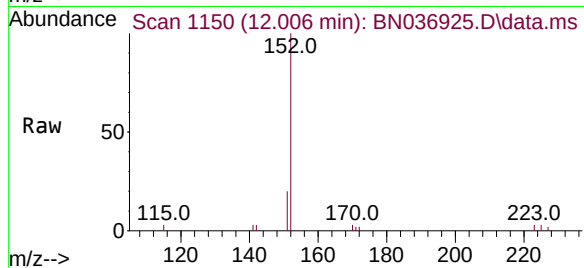




#11
2-Methylnaphthalene-d10
Concen: 0.390 ng
RT: 12.006 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

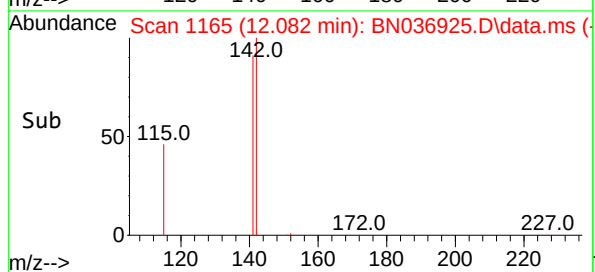
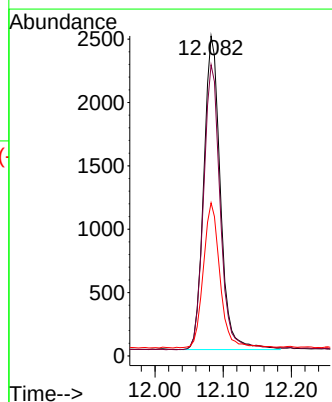
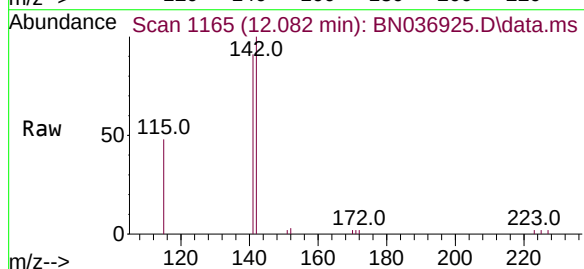
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

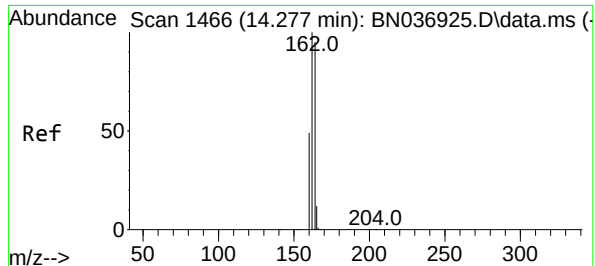
Tgt Ion:152 Resp: 3153
Ion Ratio Lower Upper
152 100
151 21.1 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 12.082 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:142 Resp: 4195
Ion Ratio Lower Upper
142 100
141 91.0 72.8 109.2
115 47.8 38.2 57.4

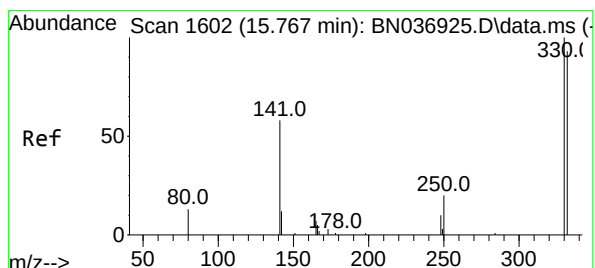
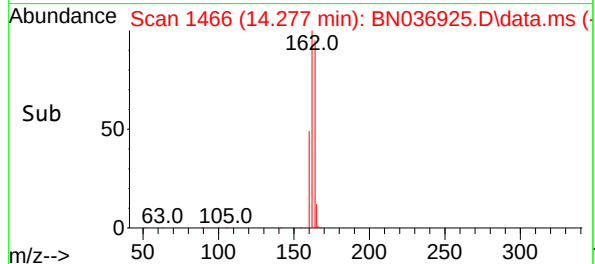
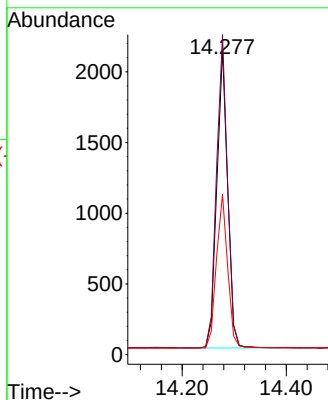
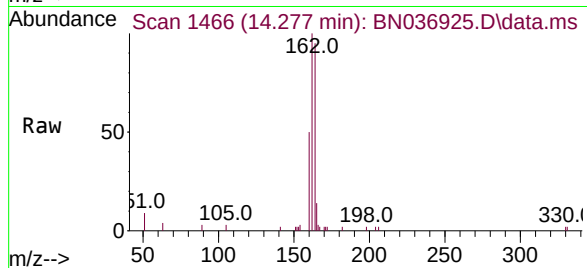




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

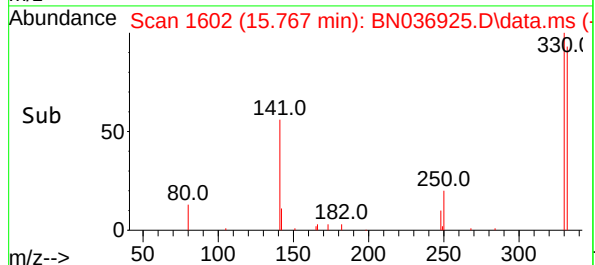
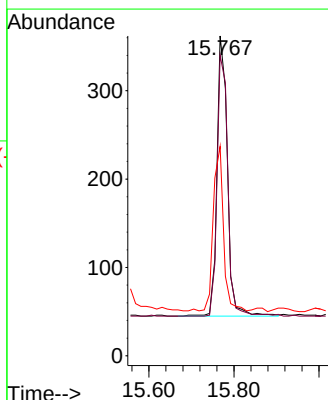
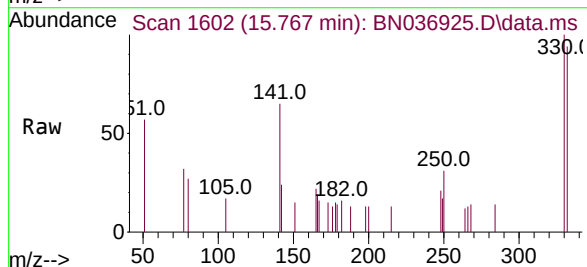
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

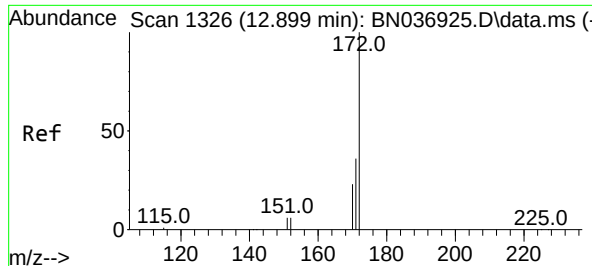
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.8	83.8	125.8
160	52.5	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.7	76.3	114.5
141	57.8	45.4	68.2

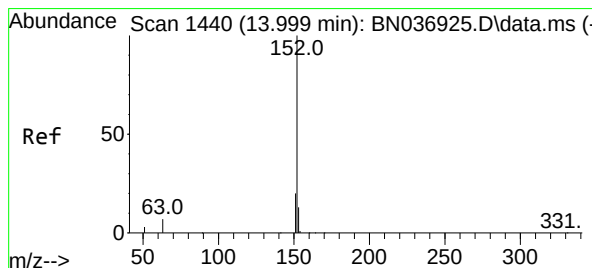
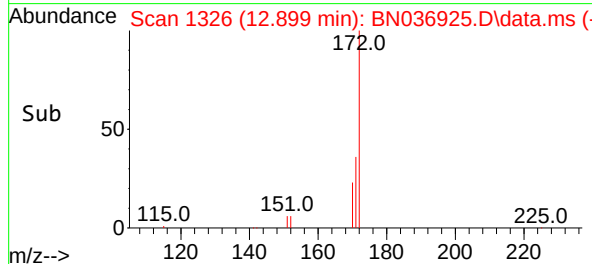
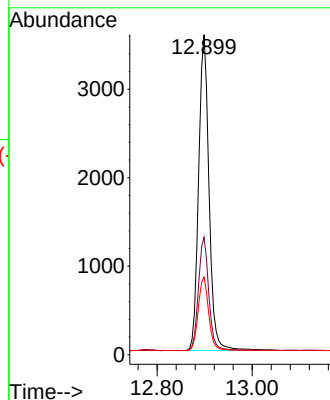
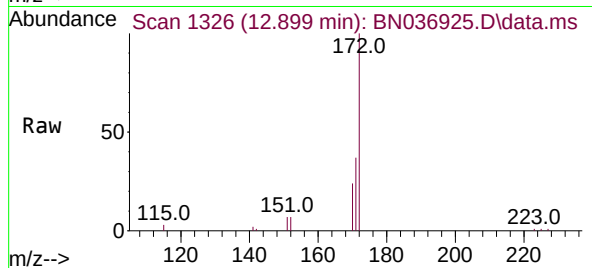




#15
2-Fluorobiphenyl
Concen: 0.425 ng
RT: 12.899 min Scan# 1326
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

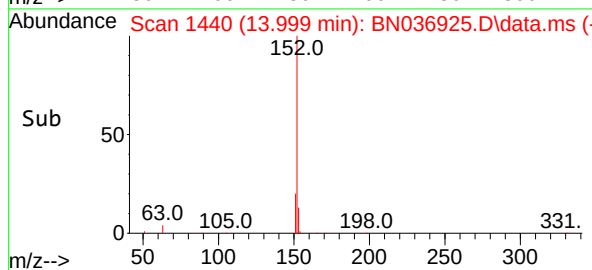
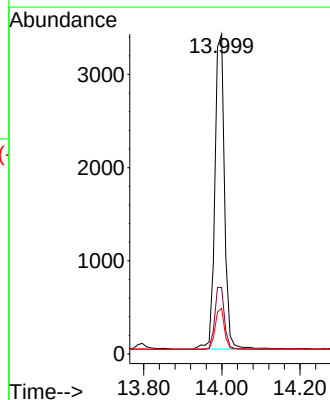
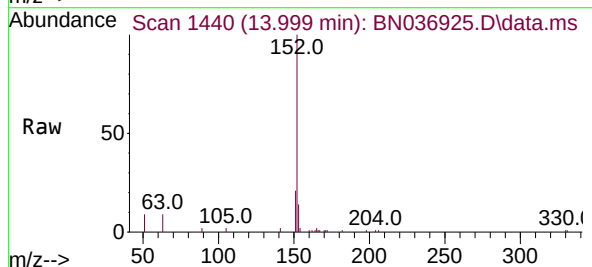
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

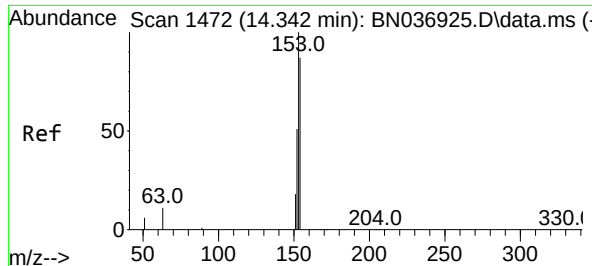
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.4	44.0
170	24.2	19.4	29.0



#16
Acenaphthylene
Concen: 0.394 ng
RT: 13.999 min Scan# 1440
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	12.7	10.2	15.2





#17

Acenaphthene

Concen: 0.398 ng

RT: 14.342 min Scan# 1472

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

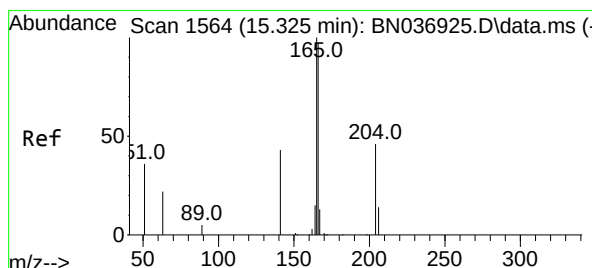
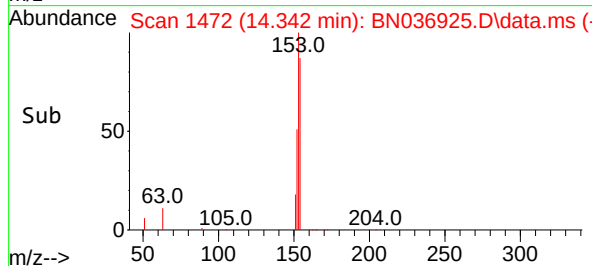
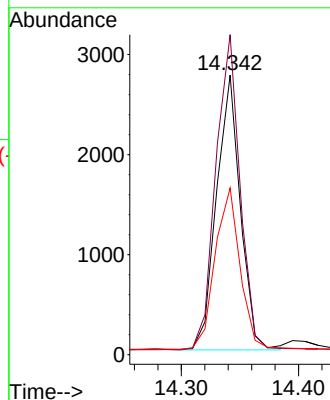
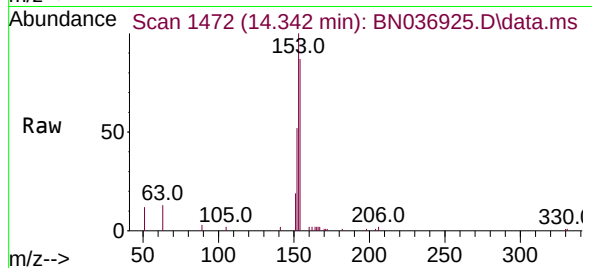
Tgt Ion:154 Resp: 3889

Ion Ratio Lower Upper

154 100

153 116.8 93.4 140.2

152 61.9 49.5 74.3



#18

Fluorene

Concen: 0.390 ng

RT: 15.325 min Scan# 1564

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

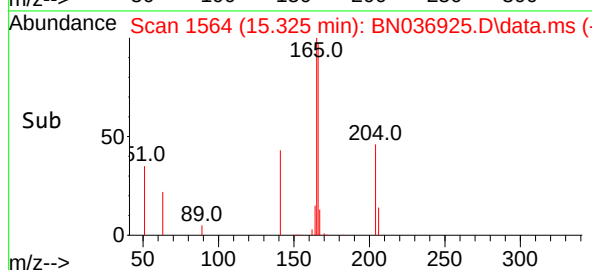
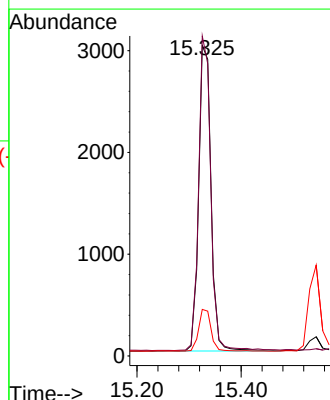
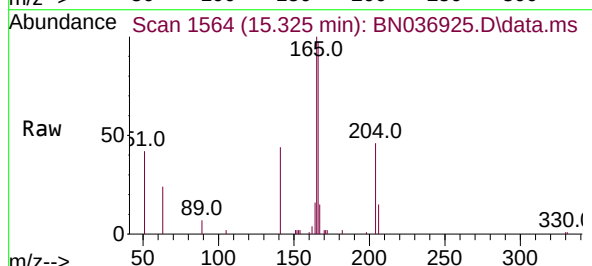
Tgt Ion:166 Resp: 4955

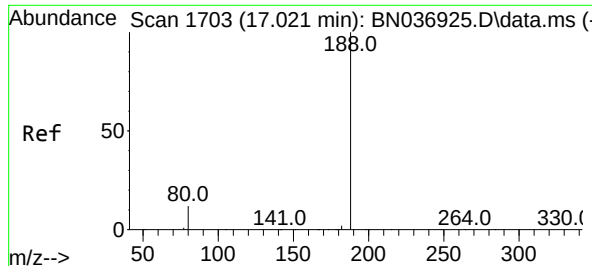
Ion Ratio Lower Upper

166 100

165 101.0 80.8 121.2

167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1703

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

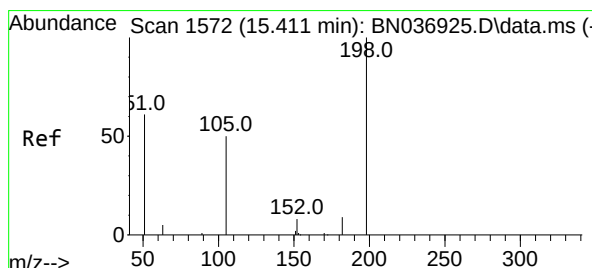
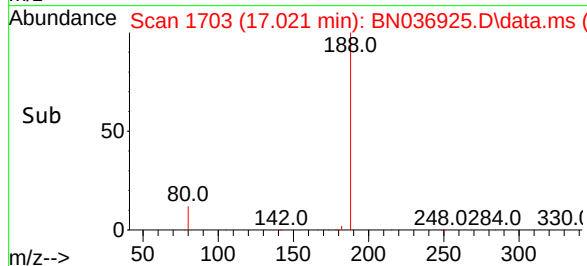
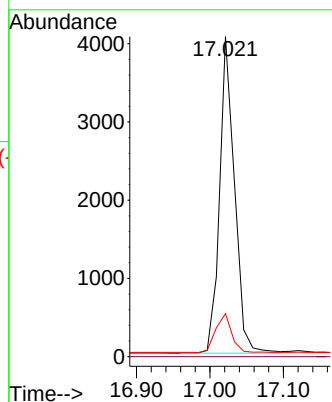
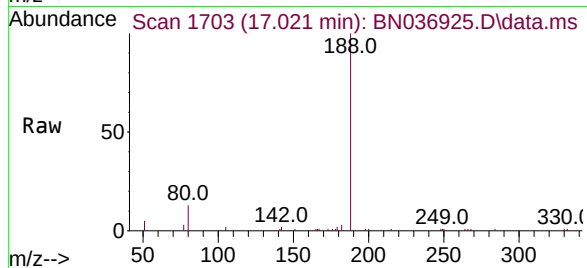
Tgt Ion:188 Resp: 5711

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.4 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.361 ng

RT: 15.411 min Scan# 1572

Delta R.T. -0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

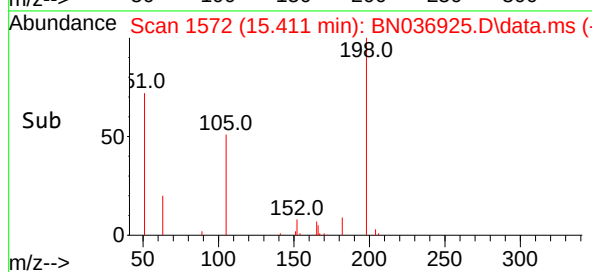
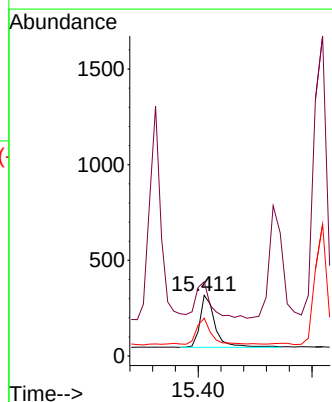
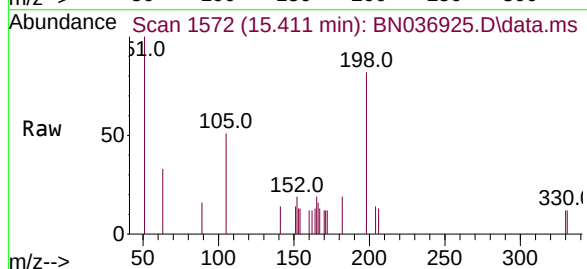
Tgt Ion:198 Resp: 516

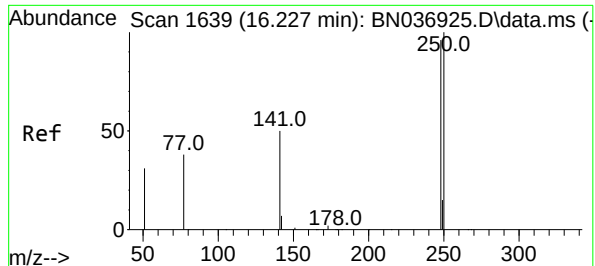
Ion Ratio Lower Upper

198 100

51 122.4 97.9 146.9

105 62.5 50.0 75.0

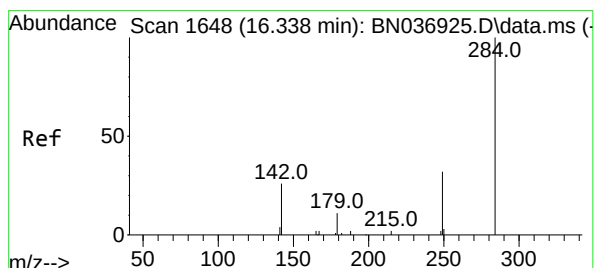
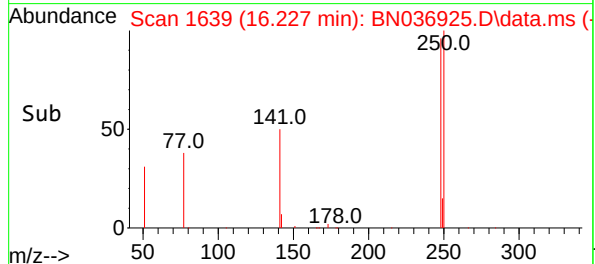
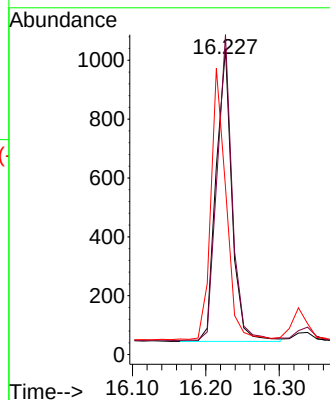
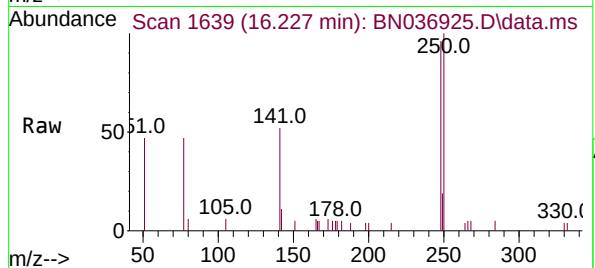




#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

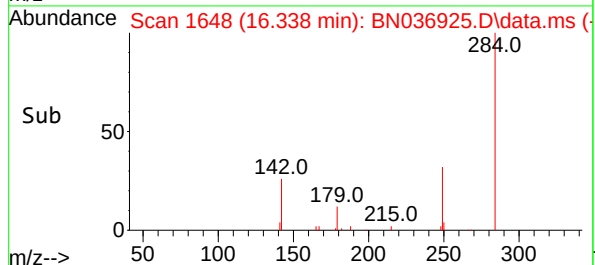
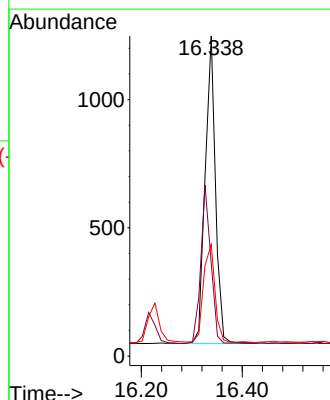
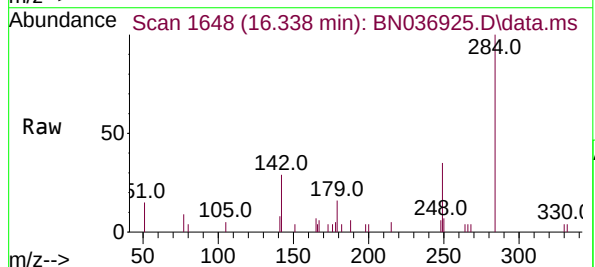
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

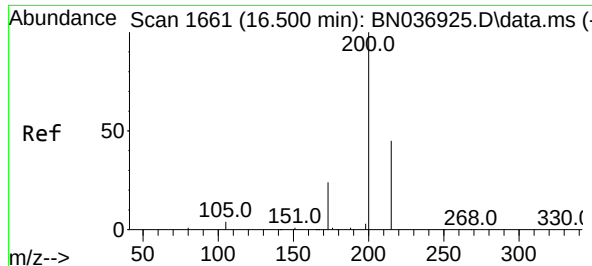
Tgt Ion	Ratio	Lower	Upper
248	100		
250	104.6	83.7	125.5
141	54.8	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.408 ng
RT: 16.338 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.0	40.0	60.0
249	35.2	28.2	42.2

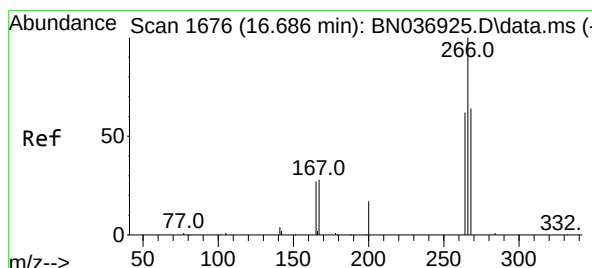
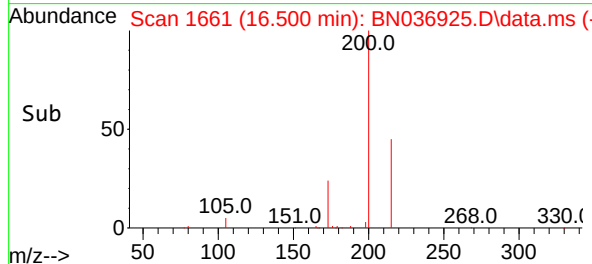
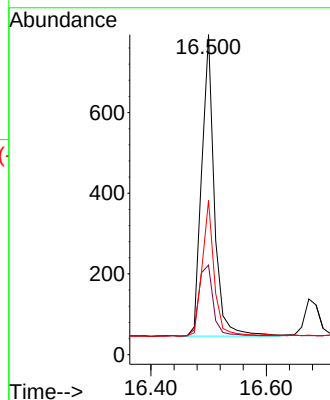
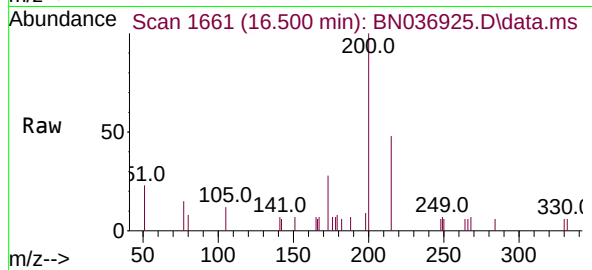




#23
Atrazine
Concen: 0.380 ng
RT: 16.500 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

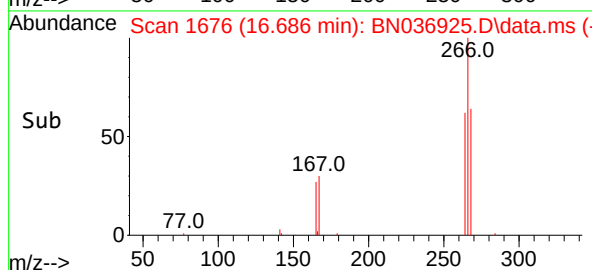
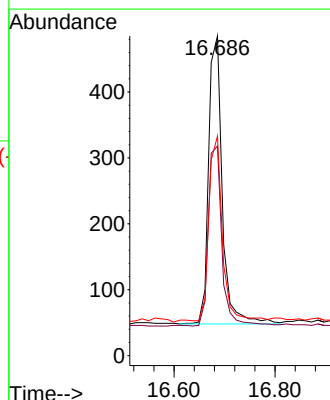
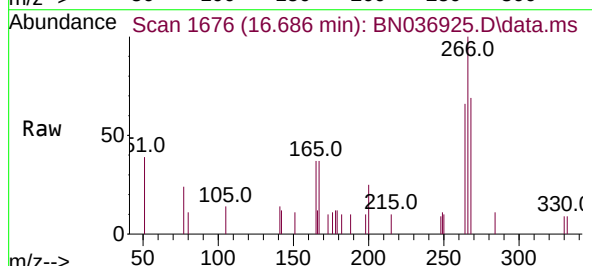
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

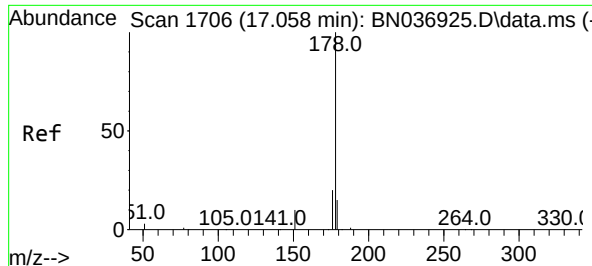
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.0	22.4	33.6
215	48.2	38.6	57.8



#24
Pentachlorophenol
Concen: 0.378 ng
RT: 16.686 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.4	49.9	74.9
268	65.3	52.2	78.4

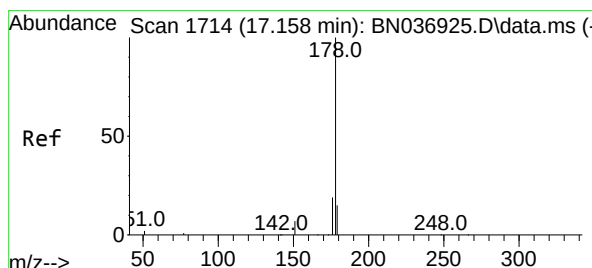
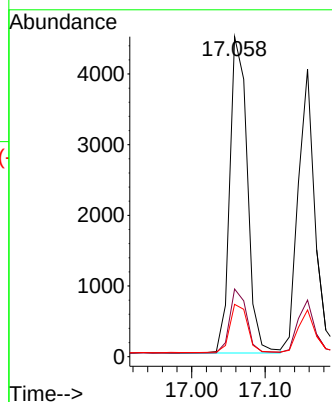
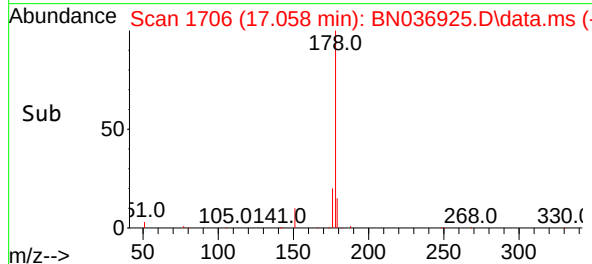
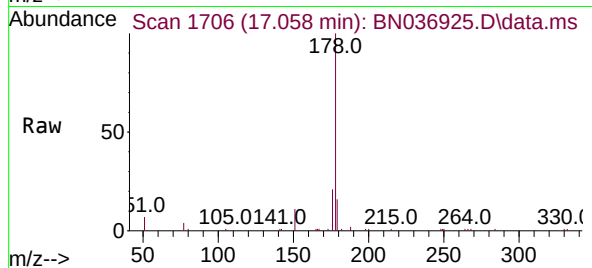




#25
Phenanthrene
Concen: 0.395 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

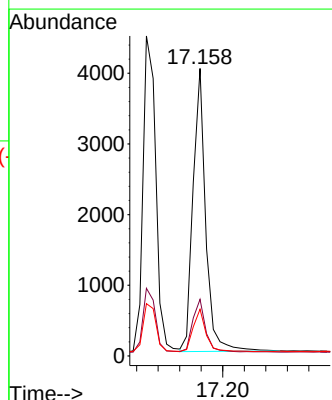
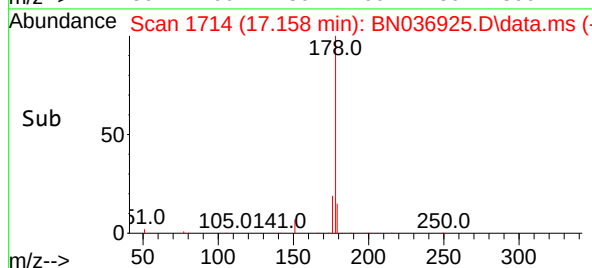
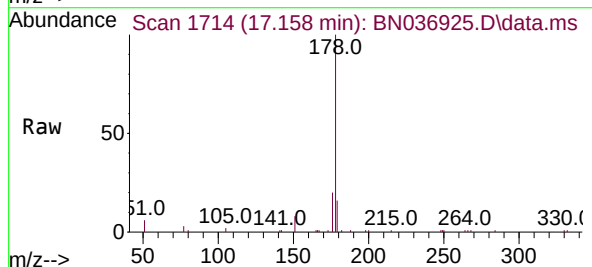
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

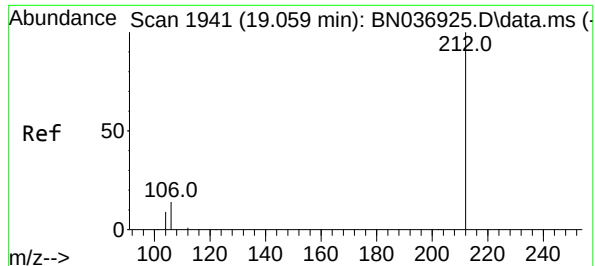
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.5	12.4	18.6



#26
Anthracene
Concen: 0.390 ng
RT: 17.158 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.0	12.1	18.1





#27

Fluoranthene-d10

Concen: 0.387 ng

RT: 19.059 min Scan# 1941

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

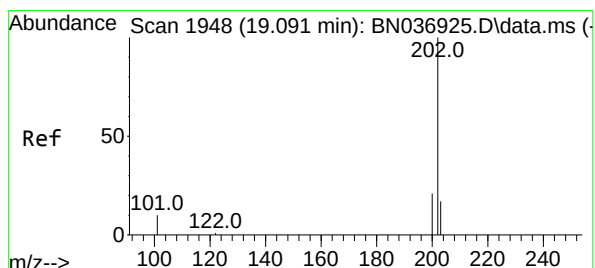
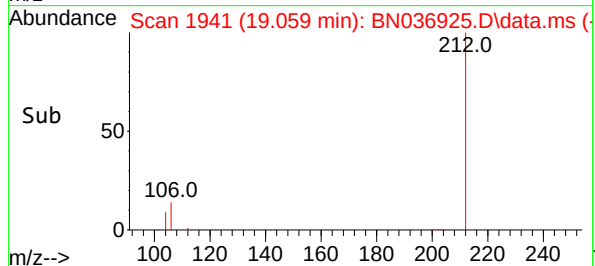
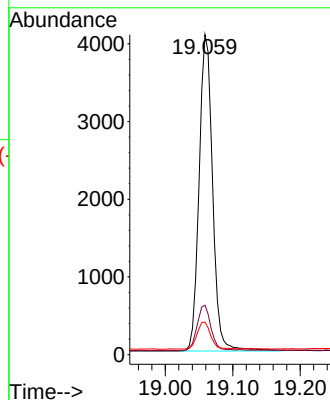
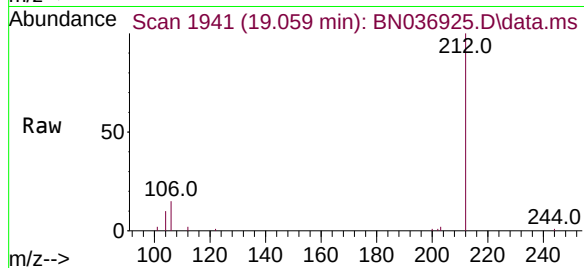
Tgt Ion:212 Resp: 5661

Ion Ratio Lower Upper

212 100

106 14.5 11.6 17.4

104 8.7 7.0 10.4



#28

Fluoranthene

Concen: 0.384 ng

RT: 19.091 min Scan# 1948

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

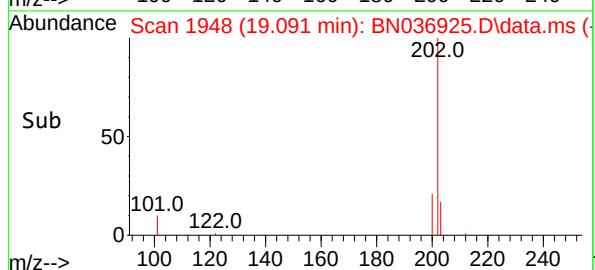
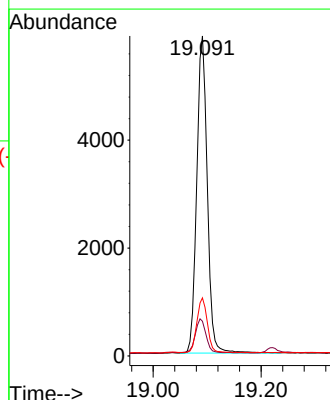
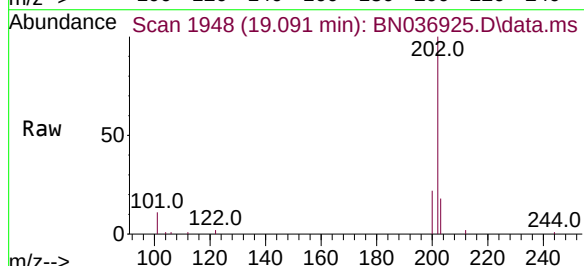
Tgt Ion:202 Resp: 7988

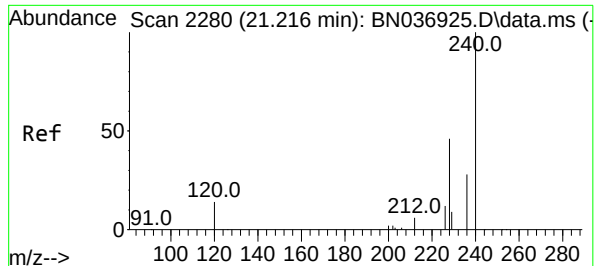
Ion Ratio Lower Upper

202 100

101 10.6 8.5 12.7

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.216 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

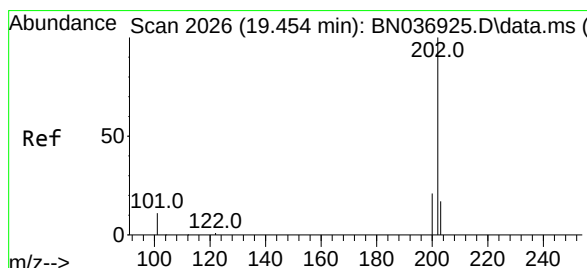
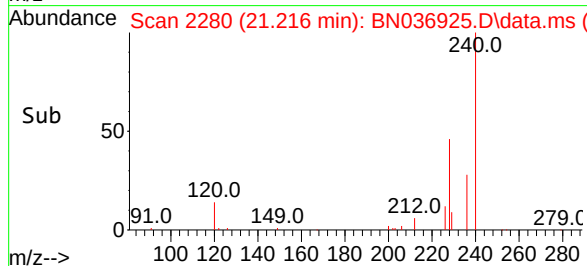
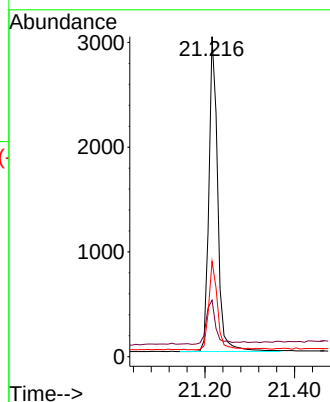
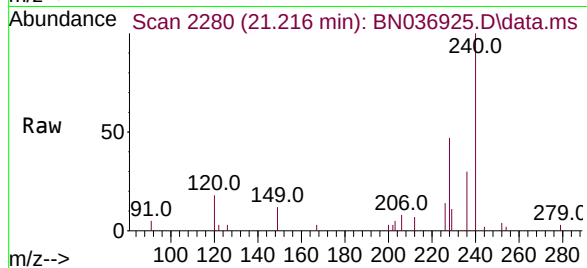
Tgt Ion:240 Resp: 4119

Ion Ratio Lower Upper

240 100

120 17.6 14.1 21.1

236 29.8 23.8 35.8



#30

Pyrene

Concen: 0.403 ng

RT: 19.454 min Scan# 2026

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

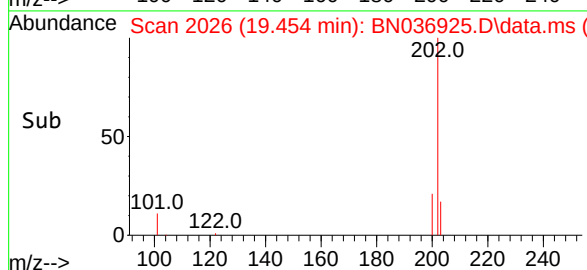
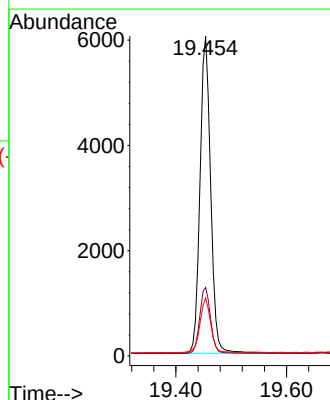
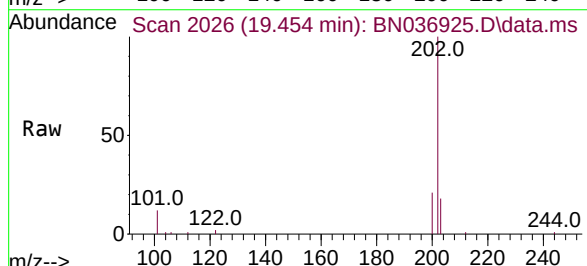
Tgt Ion:202 Resp: 8067

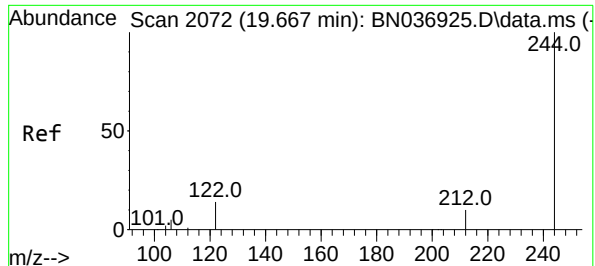
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.6

203 17.5 14.0 21.0

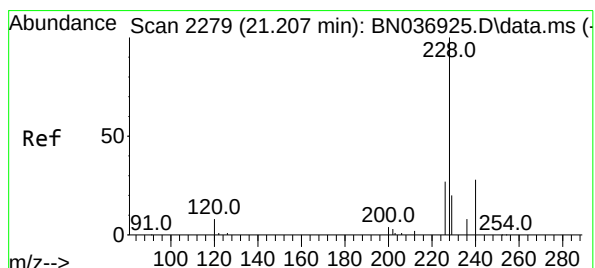
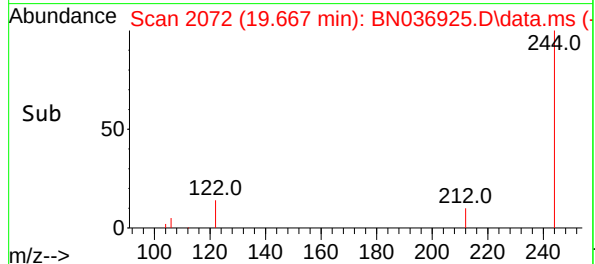
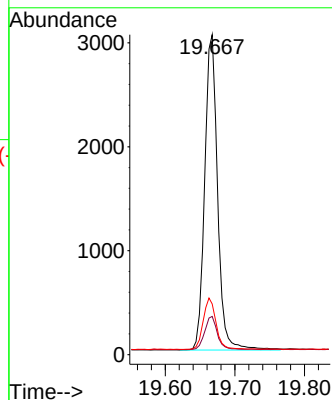
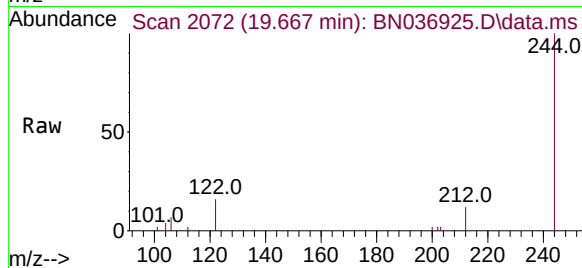




#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.667 min Scan# 2072
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

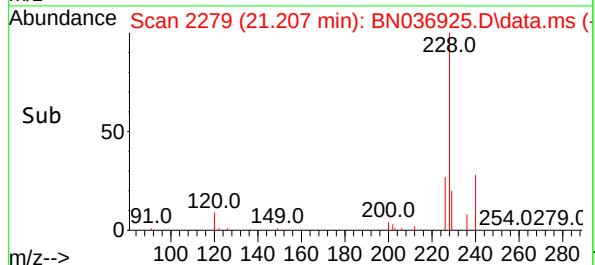
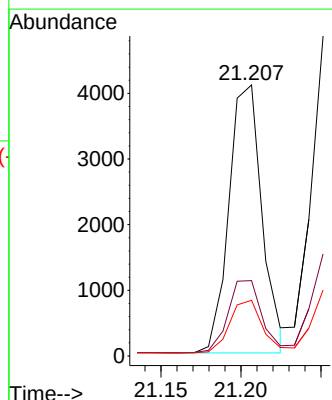
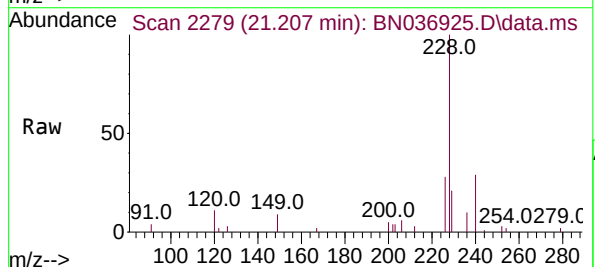
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

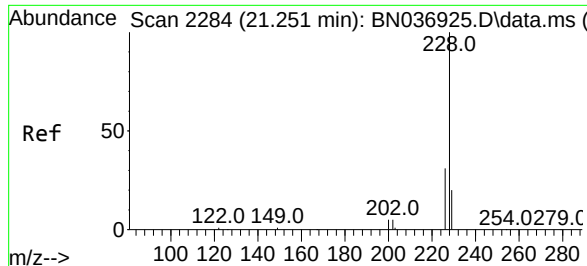
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	15.9	12.7	19.1



#32
Benzo(a)anthracene
Concen: 0.392 ng
RT: 21.207 min Scan# 2279
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.2	33.4
229	20.5	16.4	24.6





#33

Chrysene

Concen: 0.410 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

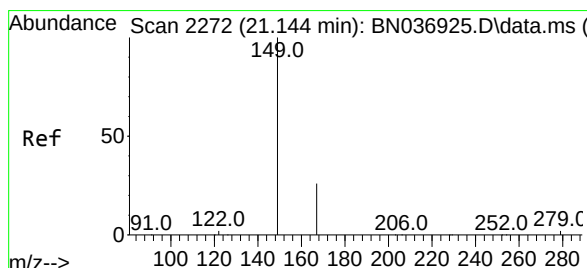
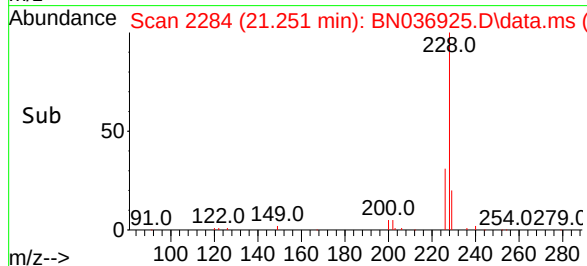
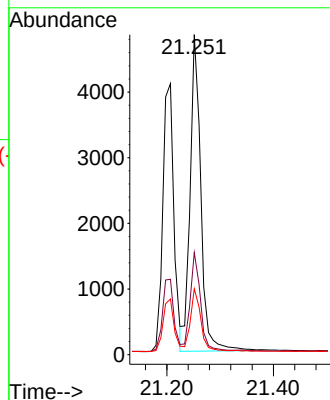
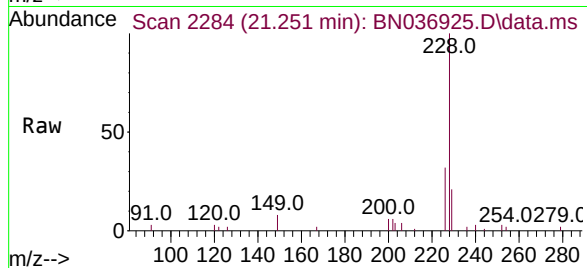
Tgt Ion:228 Resp: 6742

Ion Ratio Lower Upper

228 100

226 31.9 25.5 38.3

229 20.6 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.400 ng

RT: 21.144 min Scan# 2272

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

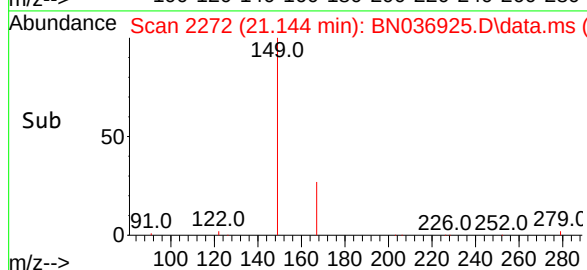
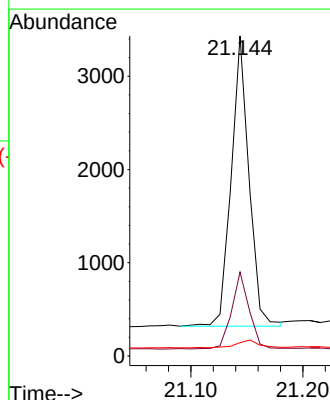
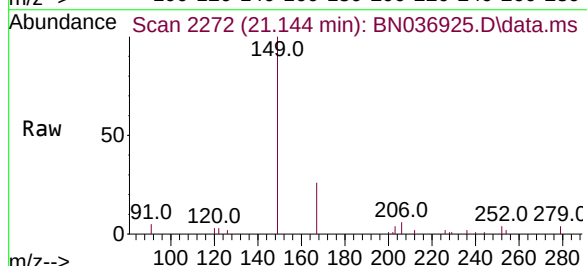
Tgt Ion:149 Resp: 3434

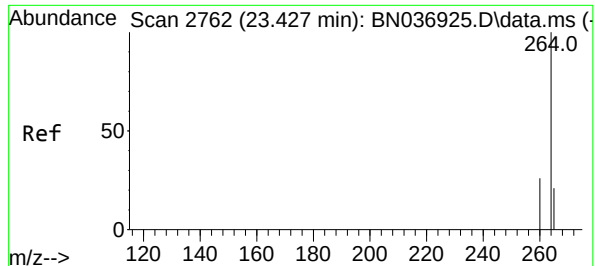
Ion Ratio Lower Upper

149 100

167 26.1 21.0 31.6

279 3.4 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

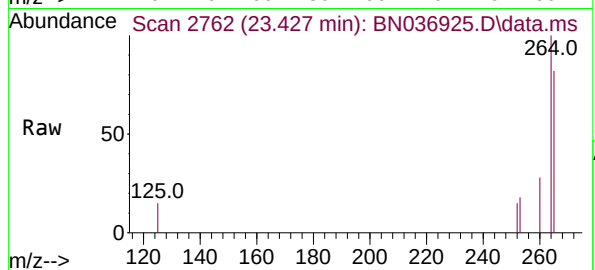
Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



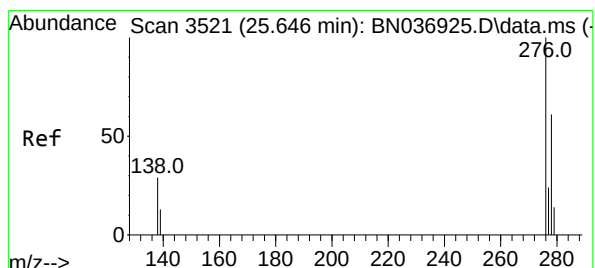
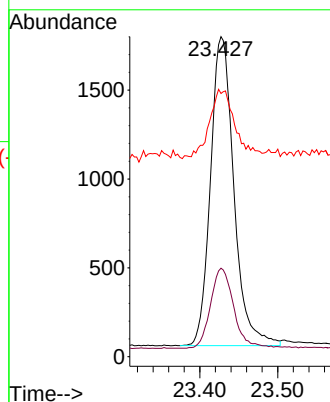
Tgt Ion:264 Resp: 3630

Ion Ratio Lower Upper

264 100

260 27.7 22.2 33.2

265 82.2 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.418 ng

RT: 25.646 min Scan# 3521

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

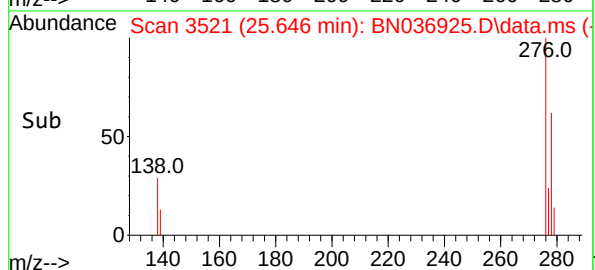
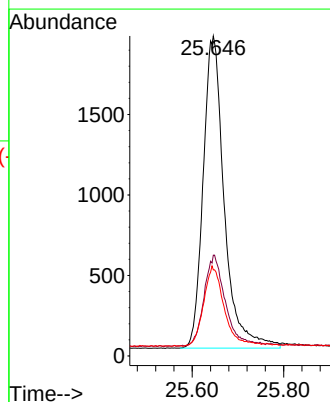
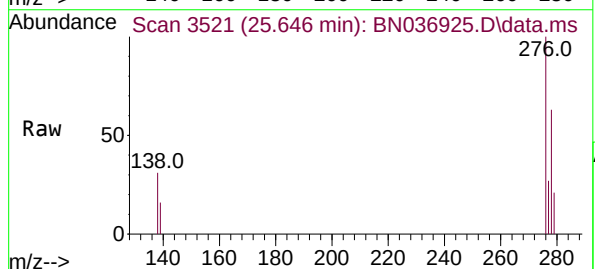
Tgt Ion:276 Resp: 6214

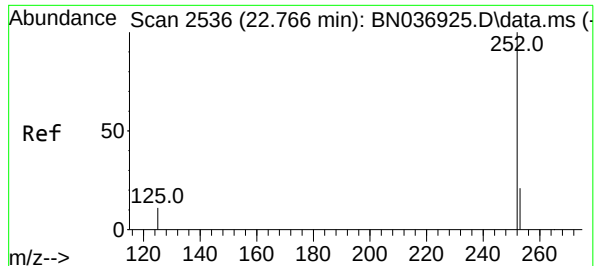
Ion Ratio Lower Upper

276 100

138 28.8 23.0 34.6

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.394 ng

RT: 22.766 min Scan# 2536

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

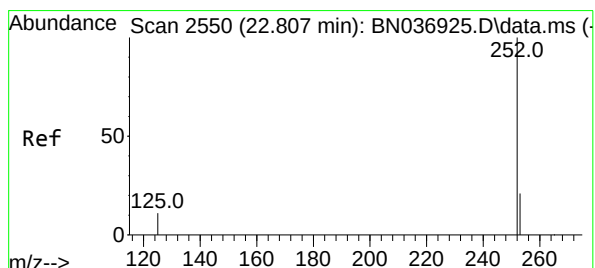
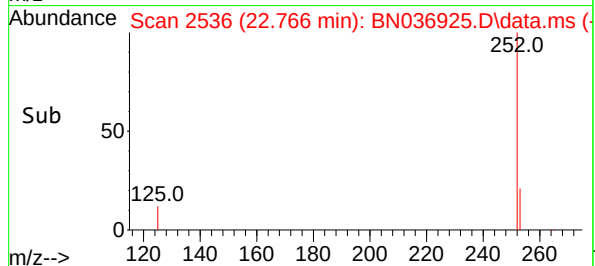
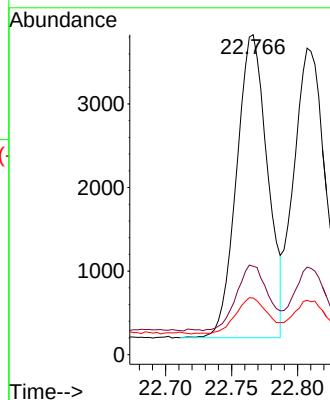
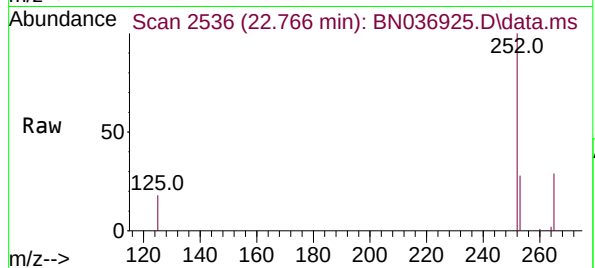
Tgt Ion:252 Resp: 5932

Ion Ratio Lower Upper

252 100

253 27.6 22.1 33.1

125 17.7 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.393 ng

RT: 22.807 min Scan# 2550

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

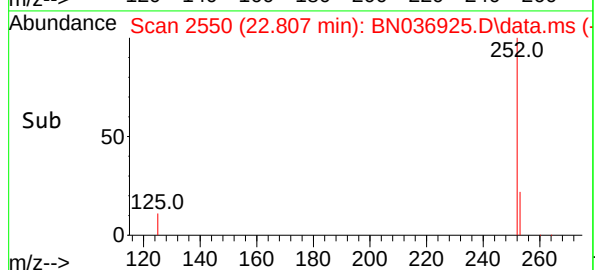
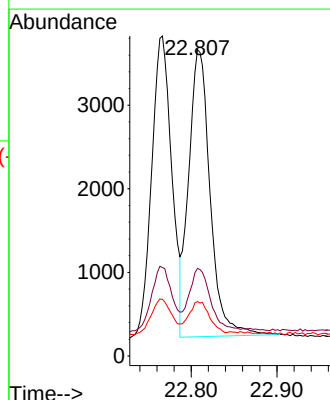
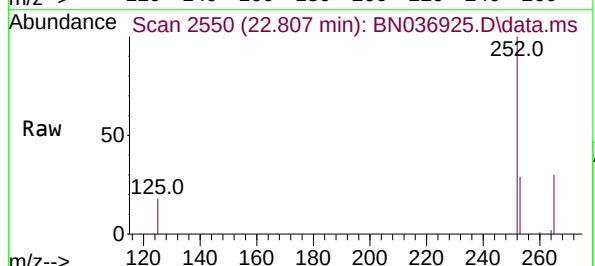
Tgt Ion:252 Resp: 5983

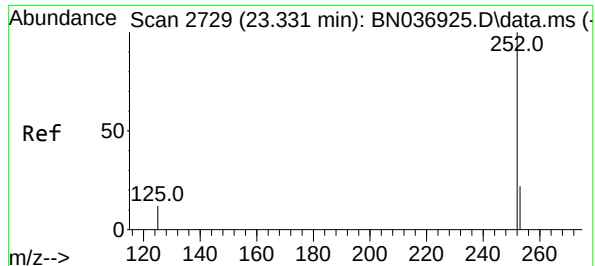
Ion Ratio Lower Upper

252 100

253 28.5 22.8 34.2

125 17.7 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.398 ng

RT: 23.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

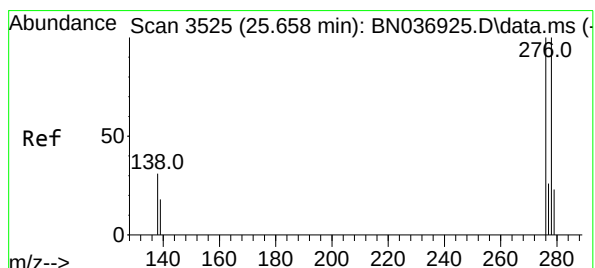
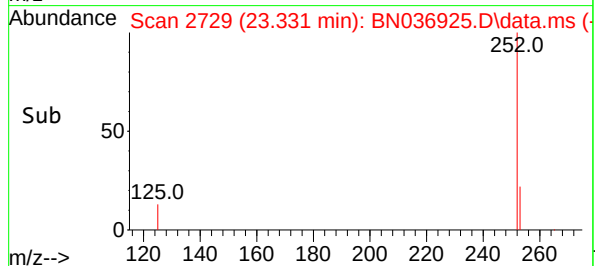
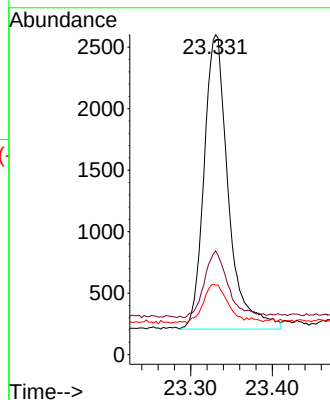
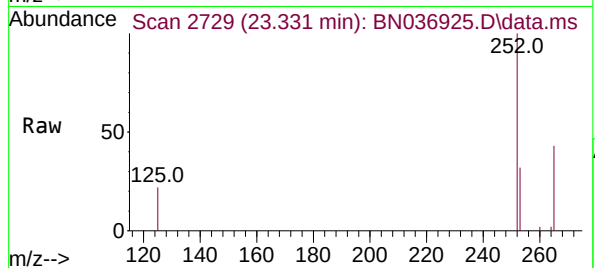
Tgt Ion:252 Resp: 4940

Ion Ratio Lower Upper

252 100

253 32.4 25.9 38.9

125 21.7 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.419 ng

RT: 25.658 min Scan# 3525

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

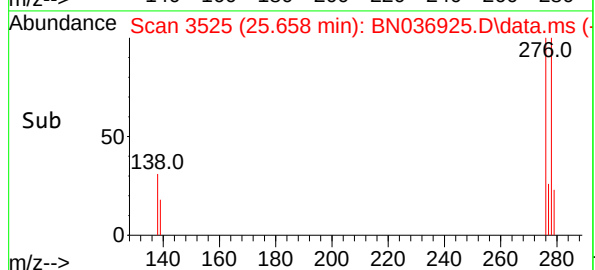
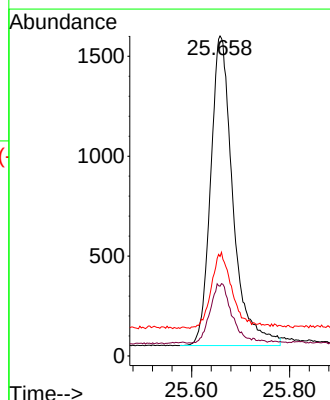
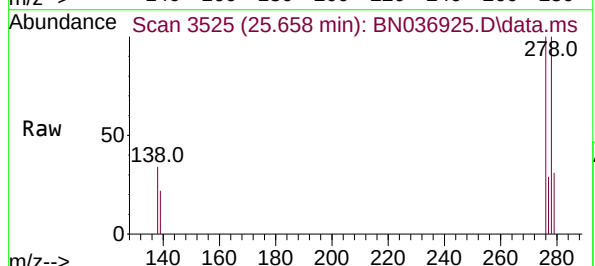
Tgt Ion:278 Resp: 4897

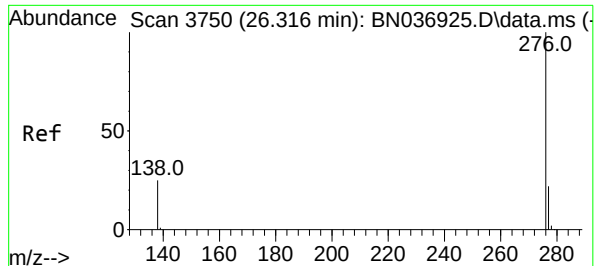
Ion Ratio Lower Upper

278 100

139 21.8 17.4 26.2

279 31.1 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.420 ng

RT: 26.316 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036925.D

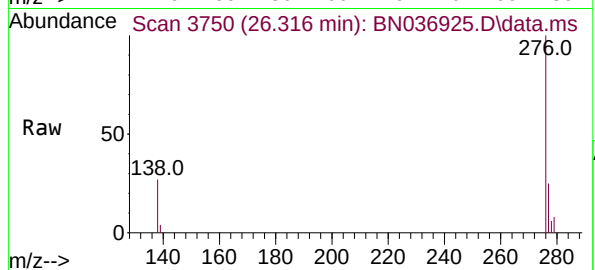
Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



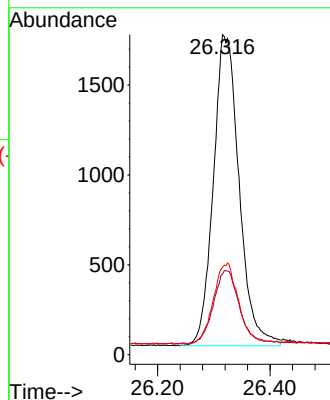
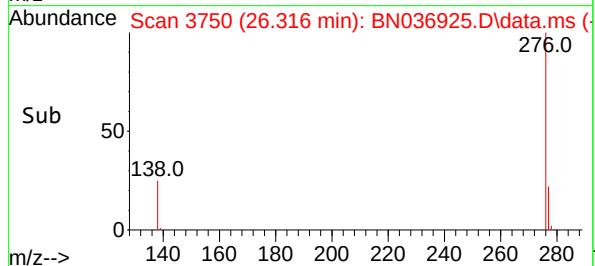
Tgt Ion:276 Resp: 5500

Ion Ratio Lower Upper

276 100

277 25.2 20.2 30.2

138 27.4 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036926.D
 Acq On : 28 Apr 2025 13:24
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Apr 28 15:13:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

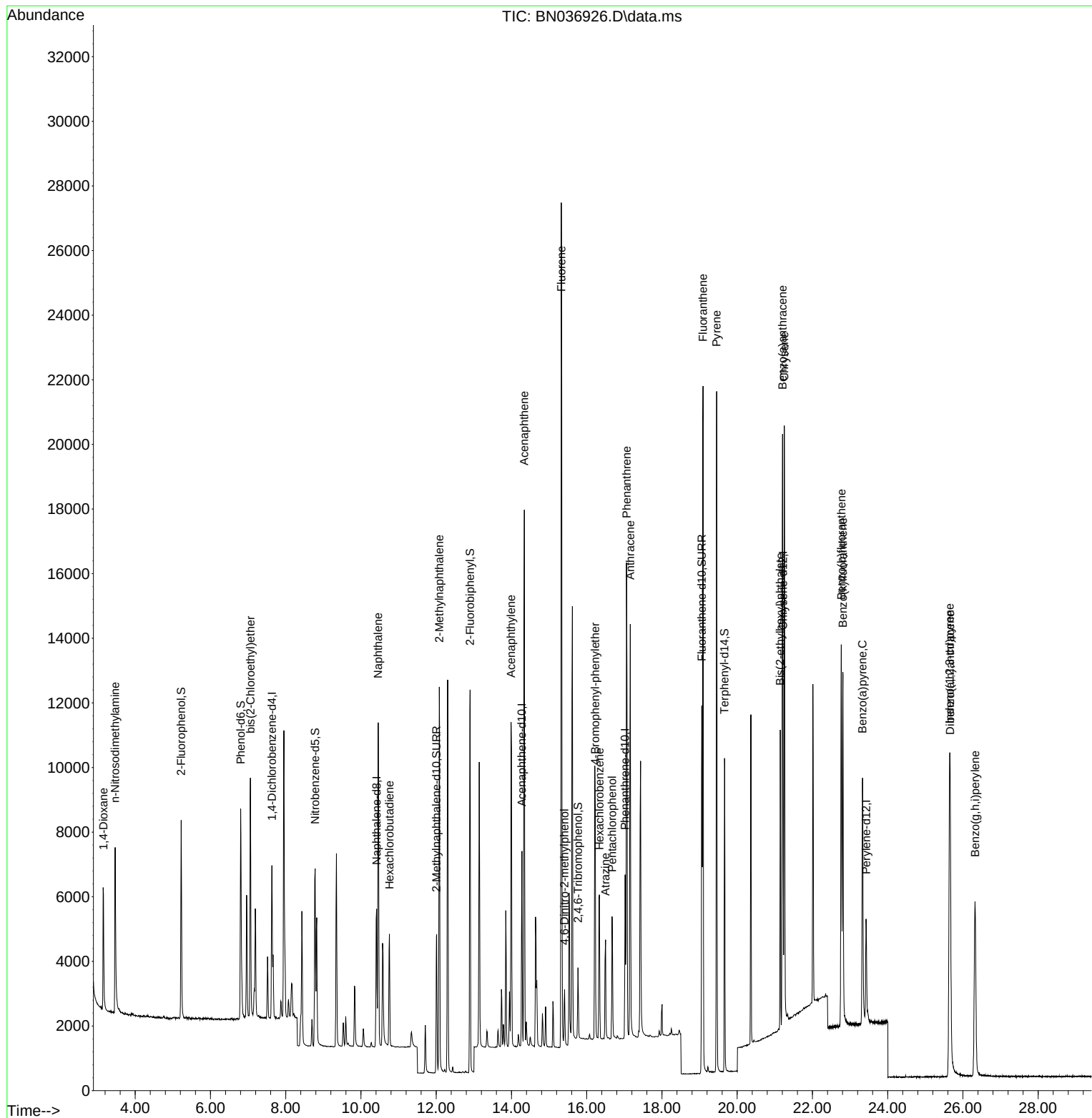
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2230	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5489	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3040	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6101	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4993	0.400	ng	0.00
35) Perylene-d12	23.427	264	4243	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	4217	0.733	ng	0.00
5) Phenol-d6	6.802	99	5133	0.732	ng	0.00
8) Nitrobenzene-d5	8.781	82	4432	0.777	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	5965	0.784	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	1061	0.796	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	10275	0.699	ng	0.00
27) Fluoranthene-d10	19.059	212	12399	0.794	ng	0.00
31) Terphenyl-d14	19.663	244	8916	0.750	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	2257	0.801	ng	97
3) n-Nitrosodimethylamine	3.465	42	4269	0.785	ng	# 97
6) bis(2-Chloroethyl)ether	7.062	93	5078	0.780	ng	99
9) Naphthalene	10.458	128	12423	0.778	ng	99
10) Hexachlorobutadiene	10.757	225	2738	0.786	ng	# 98
12) 2-Methylnaphthalene	12.082	142	8066	0.789	ng	100
16) Acenaphthylene	13.989	152	11455	0.778	ng	100
17) Acenaphthene	14.341	154	7590	0.780	ng	99
18) Fluorene	15.325	166	10080	0.795	ng	98
20) 4,6-Dinitro-2-methylph...	15.410	198	1166	0.763	ng	# 65
21) 4-Bromophenyl-phenylether	16.227	248	3169	0.780	ng	94
22) Hexachlorobenzene	16.338	284	3420	0.762	ng	99
23) Atrazine	16.500	200	2644	0.825	ng	94
24) Pentachlorophenol	16.673	266	1767	0.758	ng	99
25) Phenanthrene	17.058	178	15621	0.778	ng	100
26) Anthracene	17.157	178	13888	0.774	ng	100
28) Fluoranthene	19.091	202	17952	0.808	ng	99
30) Pyrene	19.453	202	17990	0.741	ng	100
32) Benzo(a)anthracene	21.206	228	14201	0.780	ng	99
33) Chrysene	21.251	228	15802	0.792	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	7831	0.753	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.643	276	12758	0.734	ng	100
37) Benzo(b)fluoranthene	22.766	252	13818	0.786	ng	93
38) Benzo(k)fluoranthene	22.807	252	13927	0.783	ng	93
39) Benzo(a)pyrene	23.330	252	11160	0.770	ng	# 89
40) Dibenzo(a,h)anthracene	25.661	278	9982	0.730	ng	95
41) Benzo(g,h,i)perylene	26.321	276	11072	0.724	ng	99

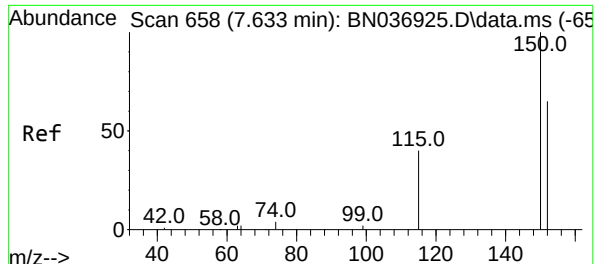
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036926.D
Acq On : 28 Apr 2025 13:24
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Apr 28 15:13:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

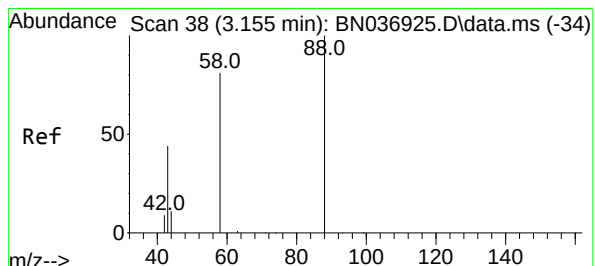
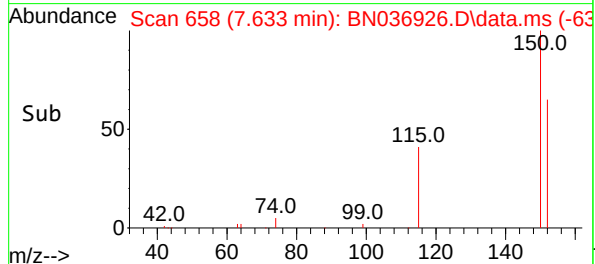
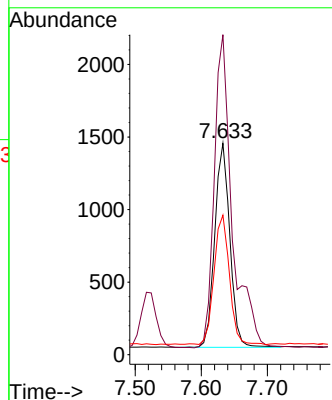
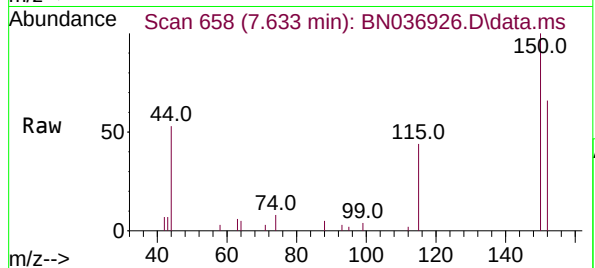




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

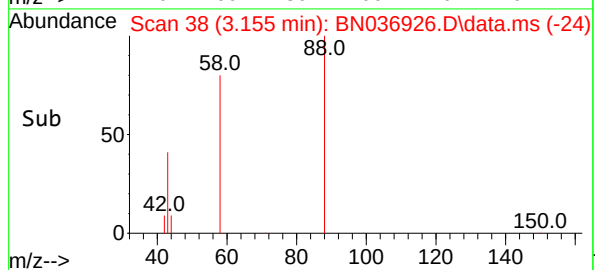
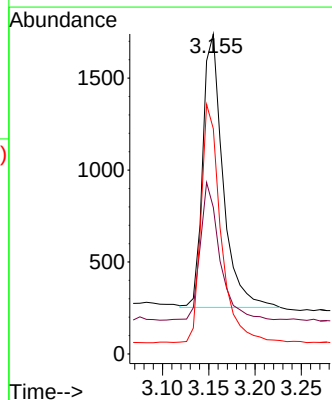
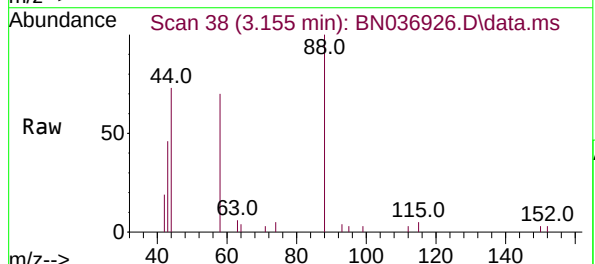
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

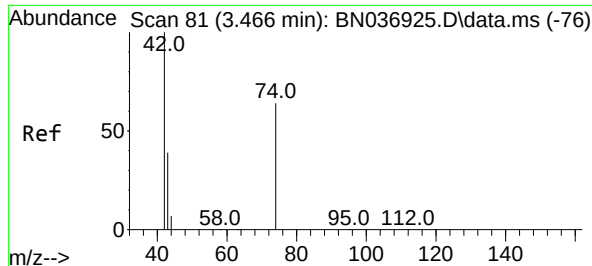
Tgt Ion:152 Resp: 2230
Ion Ratio Lower Upper
152 100
150 151.3 121.1 181.7
115 66.0 51.8 77.6



#2
1,4-Dioxane
Concen: 0.801 ng
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion: 88 Resp: 2257
Ion Ratio Lower Upper
88 100
43 49.0 37.9 56.9
58 85.8 65.8 98.6

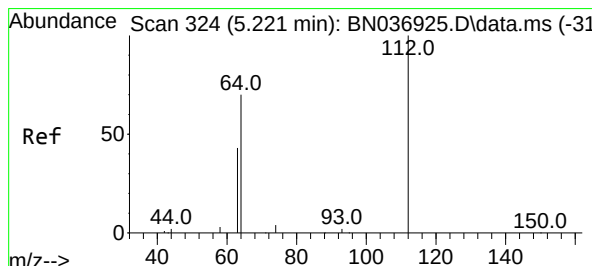
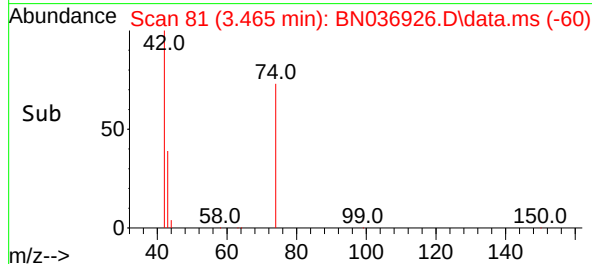
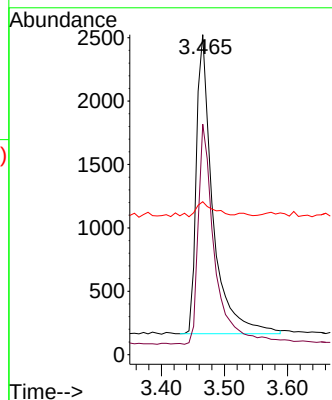
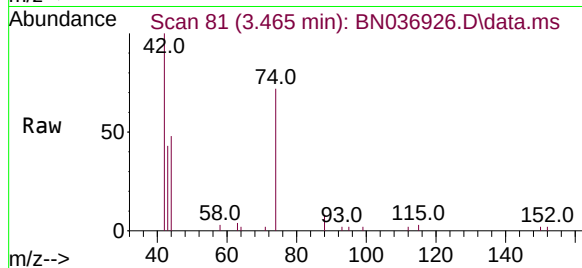




#3
n-Nitrosodimethylamine
Concen: 0.785 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

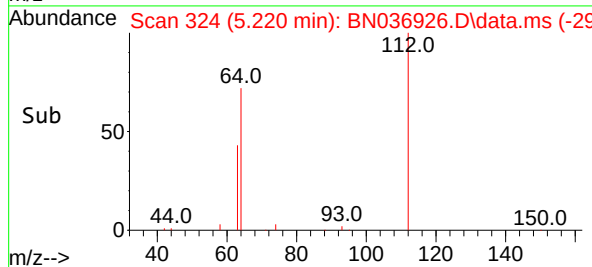
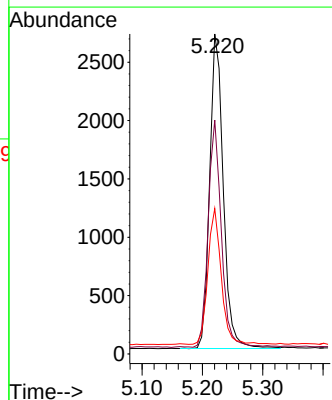
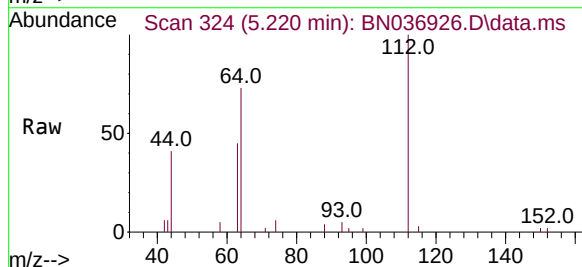
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

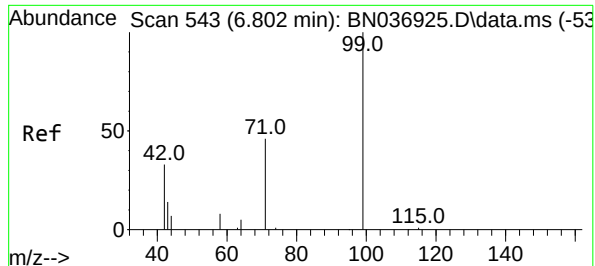
Tgt Ion: 42 Resp: 4269
Ion Ratio Lower Upper
42 100
74 72.8 59.9 89.9
44 5.2 7.5 11.3#



#4
2-Fluorophenol
Concen: 0.733 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion: 112 Resp: 4217
Ion Ratio Lower Upper
112 100
64 69.9 55.7 83.5
63 42.7 33.9 50.9

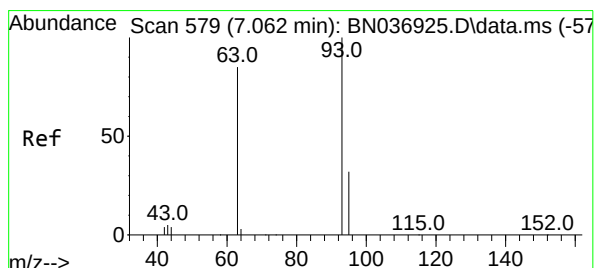
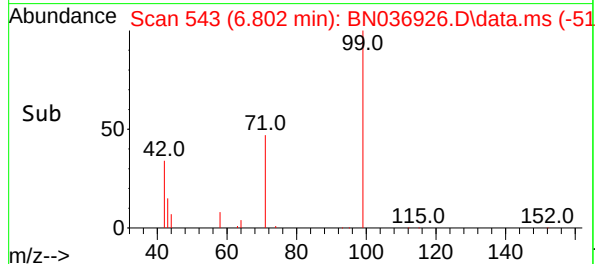
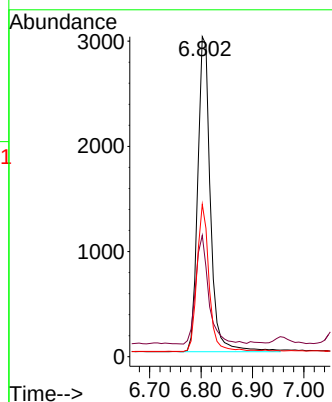
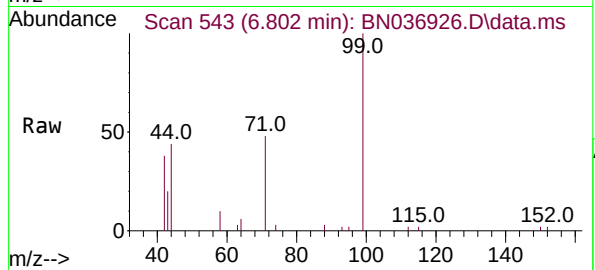




#5
Phenol-d6
Concen: 0.732 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

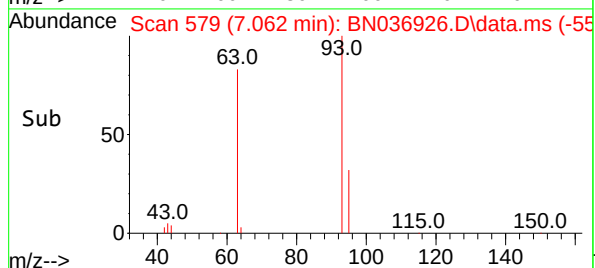
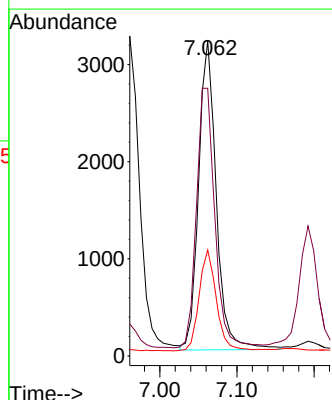
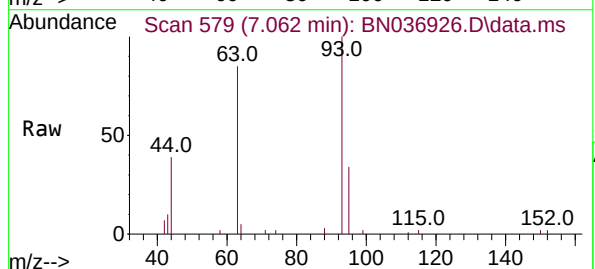
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

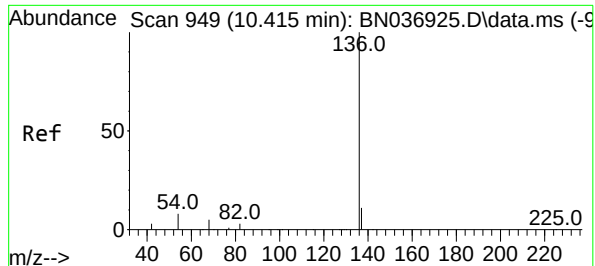
Tgt Ion: 99 Resp: 5133
Ion Ratio Lower Upper
99 100
42 35.2 29.6 44.4
71 44.7 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.780 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion: 93 Resp: 5078
Ion Ratio Lower Upper
93 100
63 87.5 69.0 103.6
95 31.9 25.4 38.0

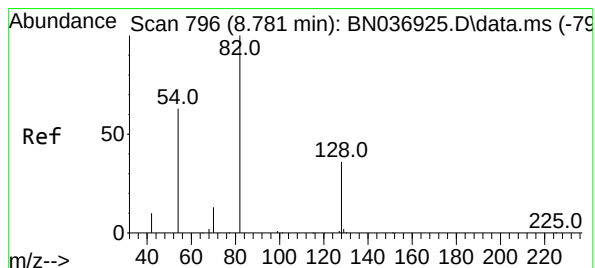
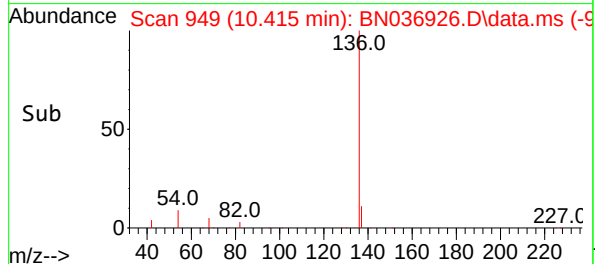
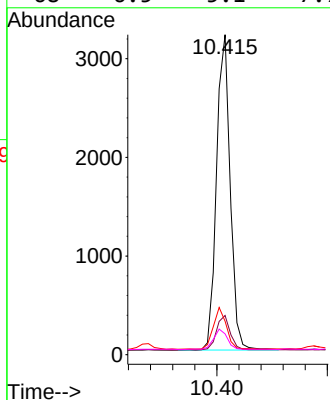
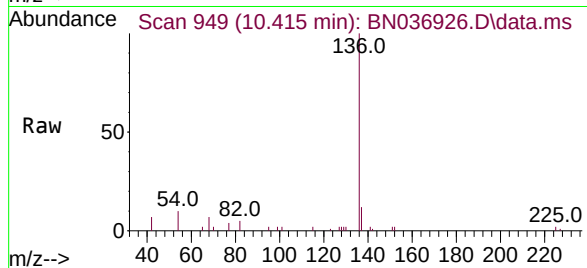




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

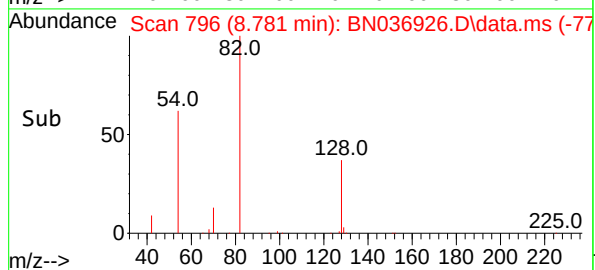
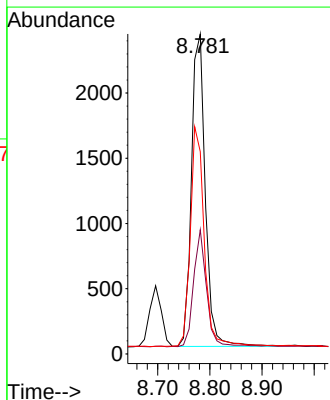
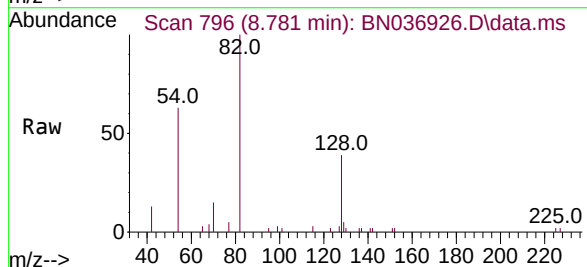
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

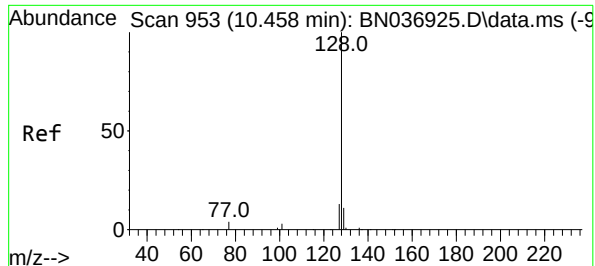
Tgt Ion:	136	Resp:	5489
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.7	14.5
54	10.5	8.0	12.0
68	6.5	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.777 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:	82	Resp:	4432
Ion	Ratio	Lower	Upper
82	100		
128	38.8	30.7	46.1
54	63.2	52.1	78.1

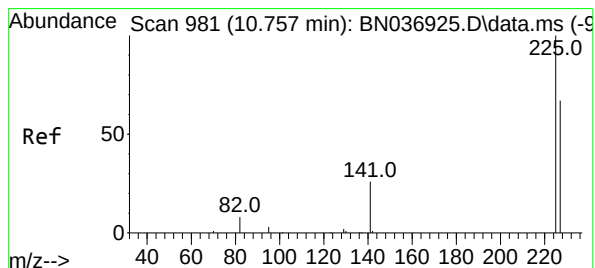
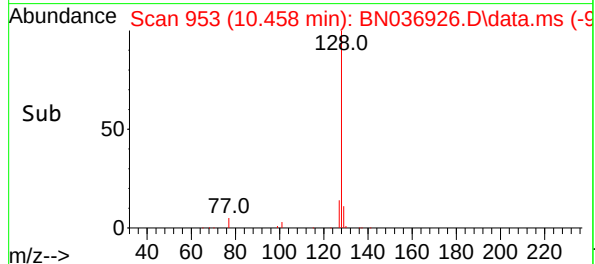
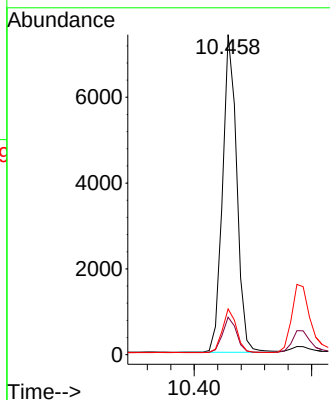
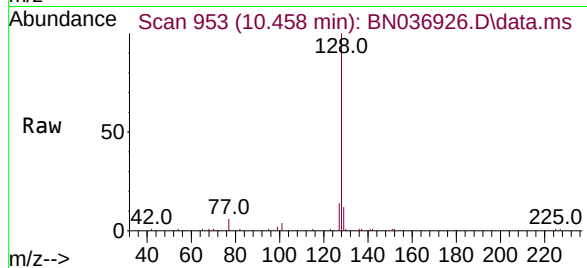




#9
Naphthalene
Concen: 0.778 ng
RT: 10.458 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

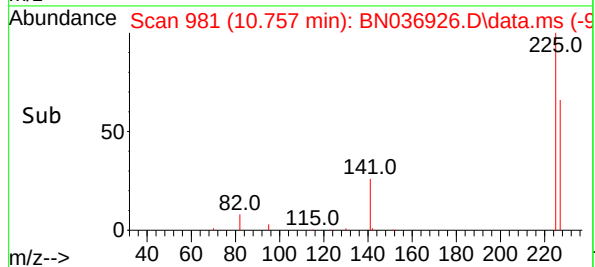
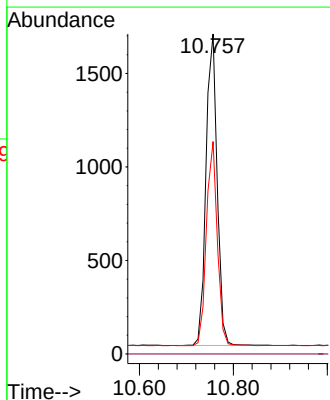
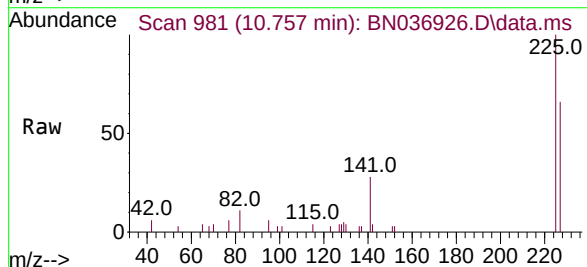
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

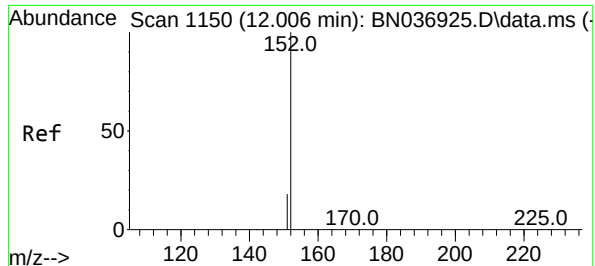
Tgt Ion:128 Resp: 12423
Ion Ratio Lower Upper
128 100
129 11.7 9.8 14.6
127 14.3 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.786 ng
RT: 10.757 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:225 Resp: 2738
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 52.2 78.4

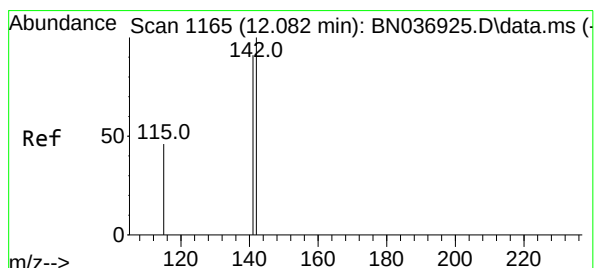
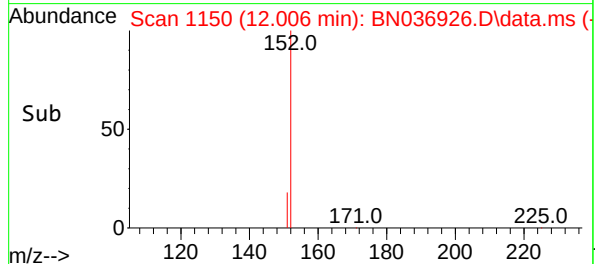
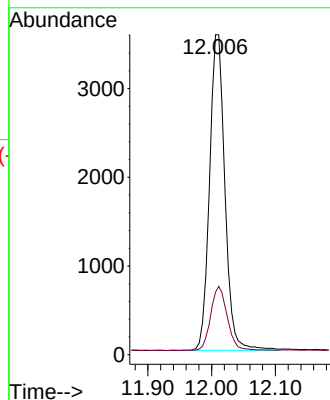
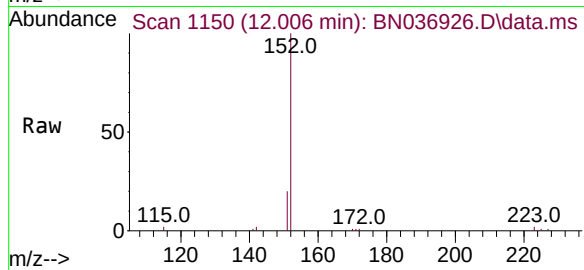




#11
2-Methylnaphthalene-d10
Concen: 0.784 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

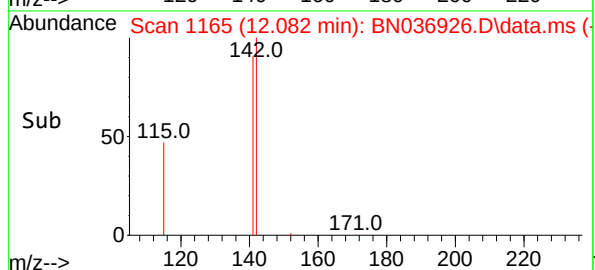
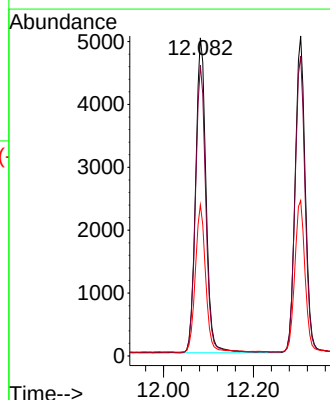
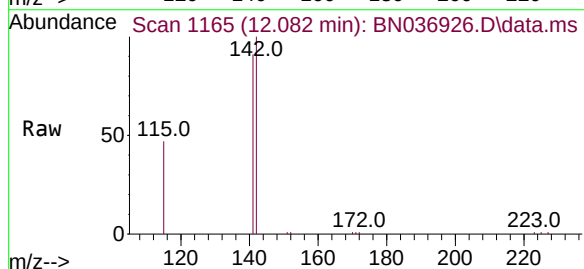
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

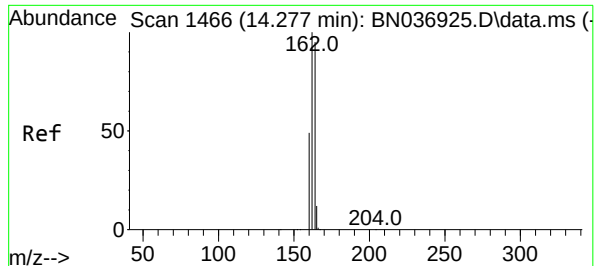
Tgt Ion:152 Resp: 5965
Ion Ratio Lower Upper
152 100
151 21.8 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.789 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:142 Resp: 8066
Ion Ratio Lower Upper
142 100
141 91.4 72.8 109.2
115 47.5 38.2 57.4

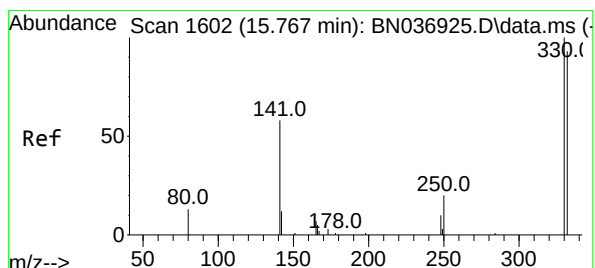
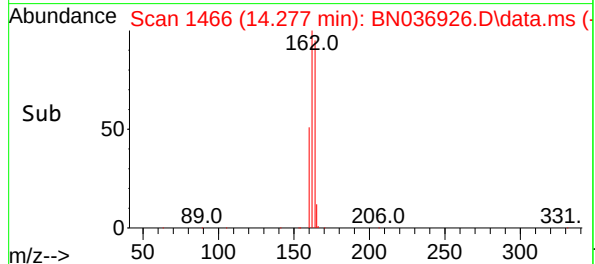
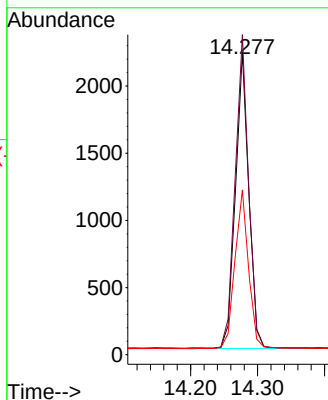
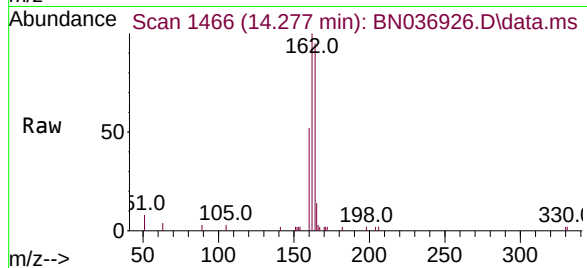




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

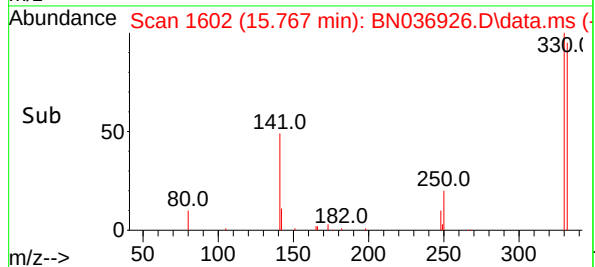
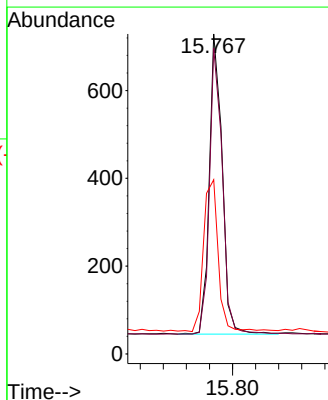
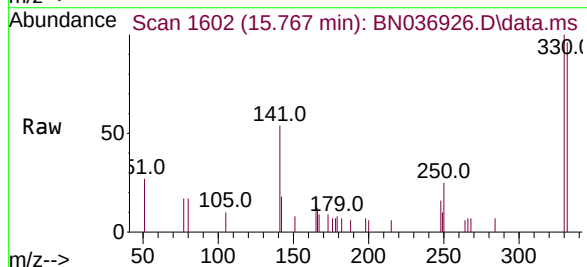
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

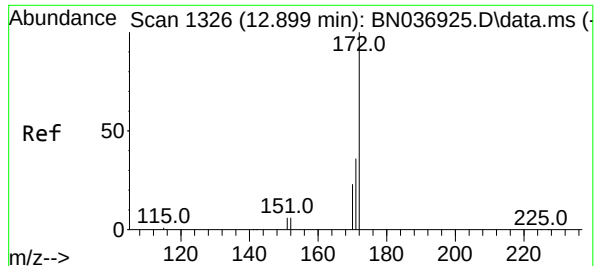
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.7	83.8	125.8
160	54.5	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 0.796 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.2	76.3	114.5
141	56.7	45.4	68.2





#15

2-Fluorobiphenyl

Concen: 0.699 ng

RT: 12.899 min Scan# 1439

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

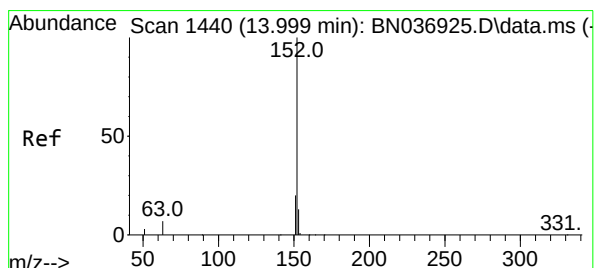
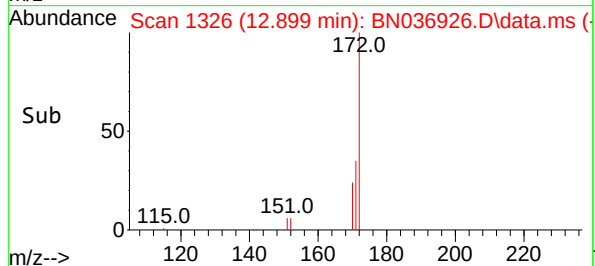
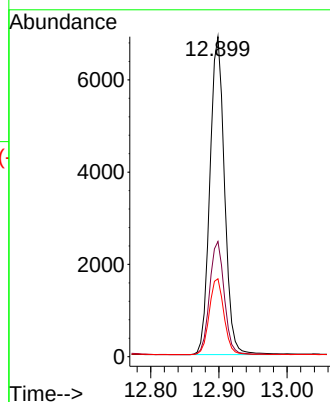
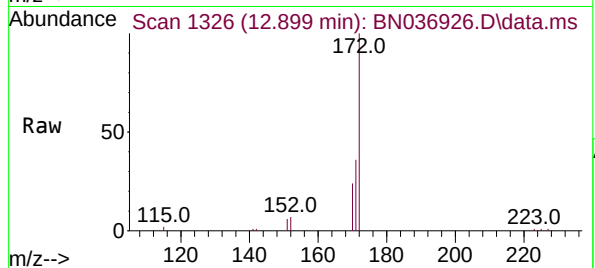
Tgt Ion:172 Resp: 10275

Ion Ratio Lower Upper

172 100

171 36.0 29.4 44.0

170 24.3 19.4 29.0



#16

Acenaphthylene

Concen: 0.778 ng

RT: 13.989 min Scan# 1439

Delta R.T. -0.011 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

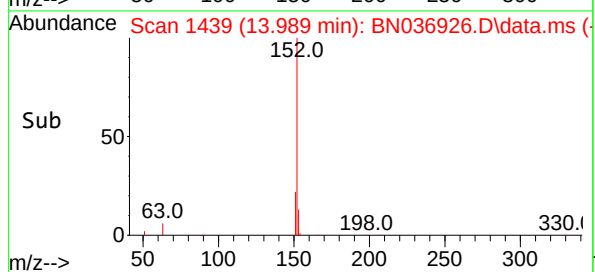
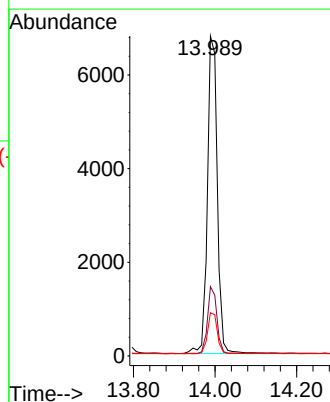
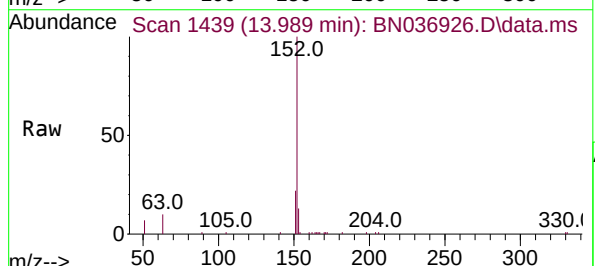
Tgt Ion:152 Resp: 11455

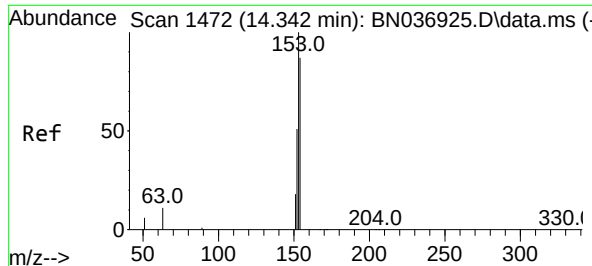
Ion Ratio Lower Upper

152 100

151 20.0 16.0 24.0

153 12.9 10.2 15.2

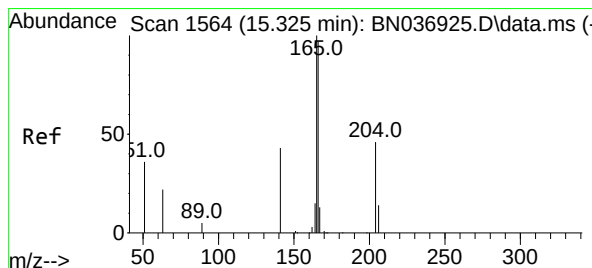
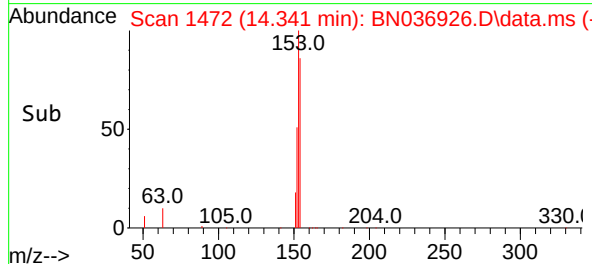
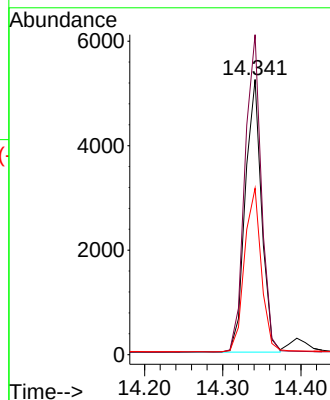
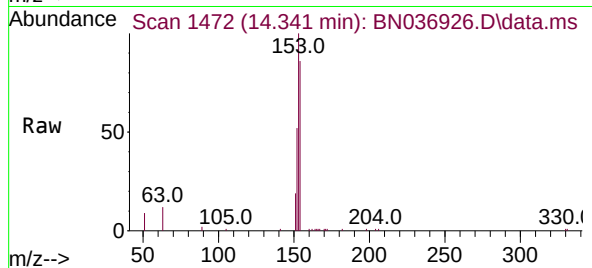




#17
Acenaphthene
Concen: 0.780 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

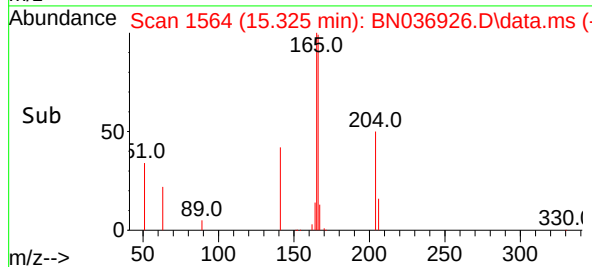
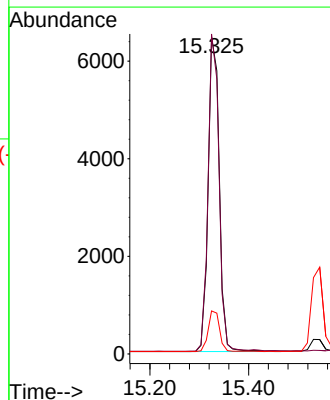
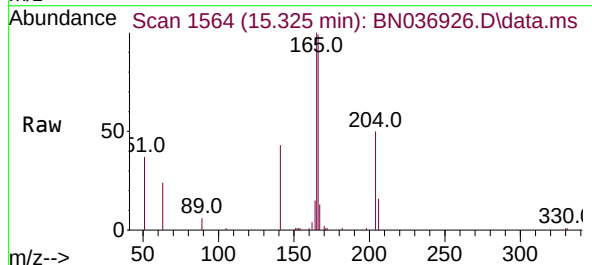
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

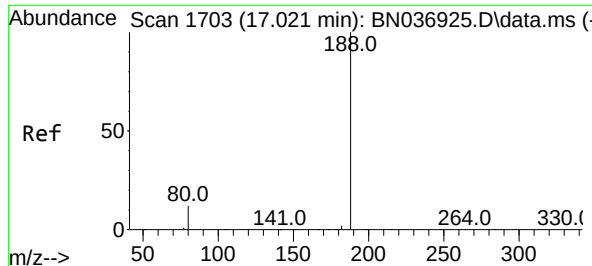
Tgt Ion:154 Resp: 7590
Ion Ratio Lower Upper
154 100
153 117.5 93.4 140.2
152 62.1 49.5 74.3



#18
Fluorene
Concen: 0.795 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:166 Resp: 10080
Ion Ratio Lower Upper
166 100
165 99.0 80.8 121.2
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

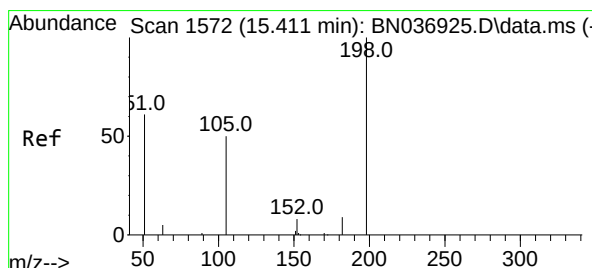
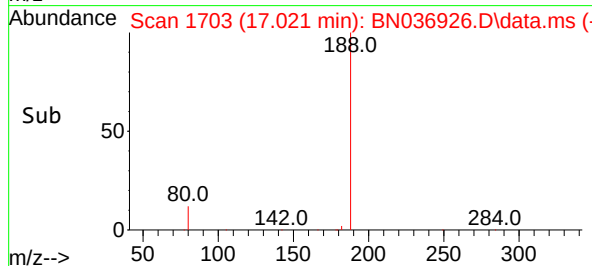
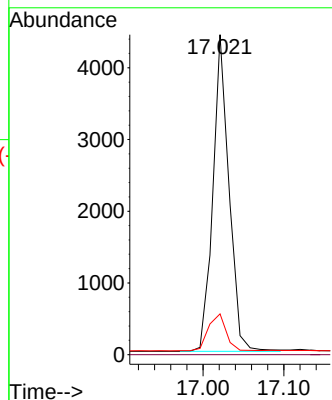
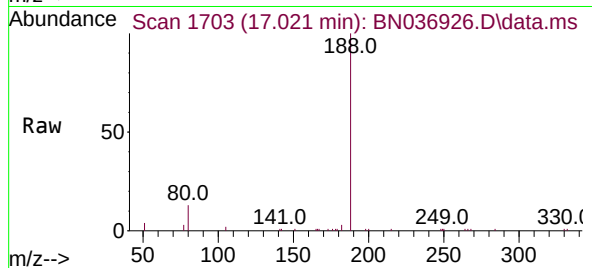
Tgt Ion:188 Resp: 6101

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.8 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.763 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

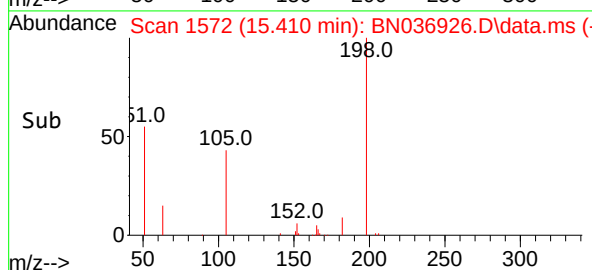
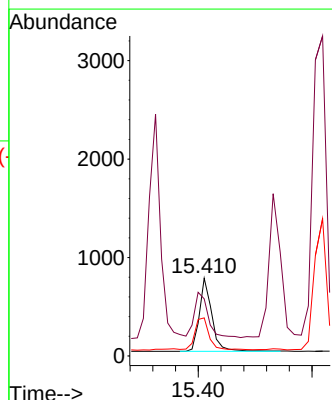
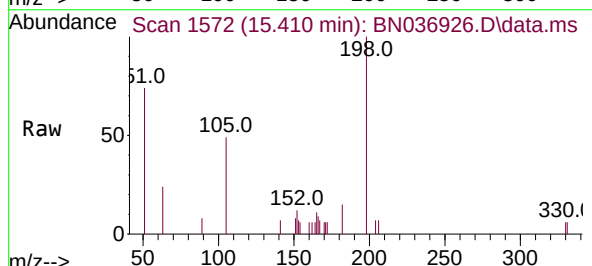
Tgt Ion:198 Resp: 1166

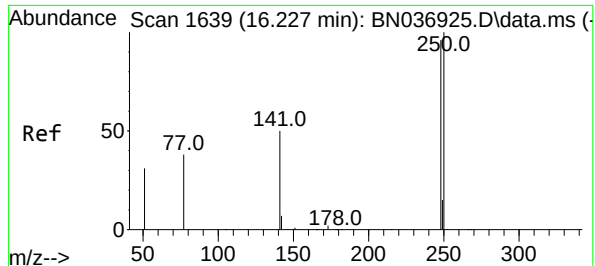
Ion Ratio Lower Upper

198 100

51 73.5 97.9 146.9#

105 48.9 50.0 75.0#

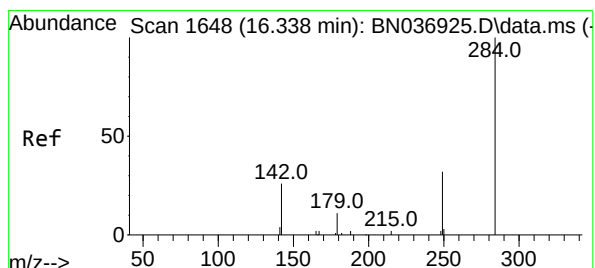
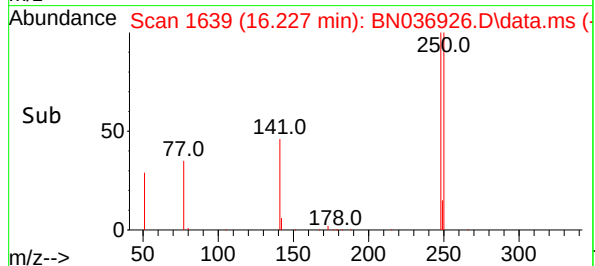
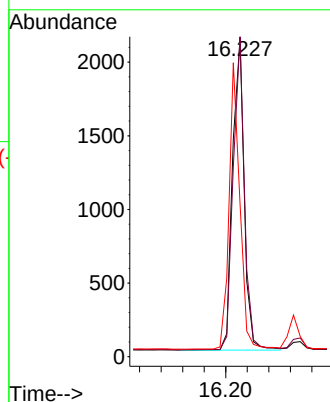
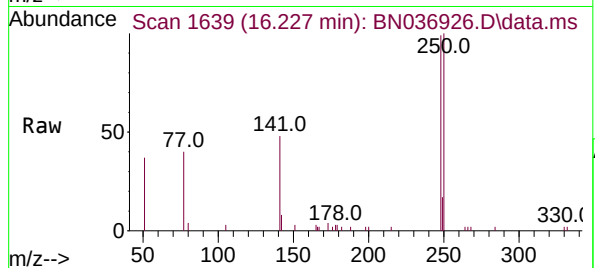




#21
4-Bromophenyl-phenylether
Concen: 0.780 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

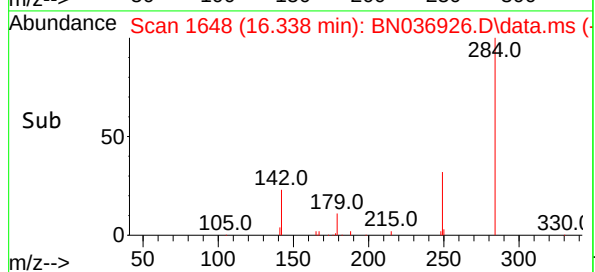
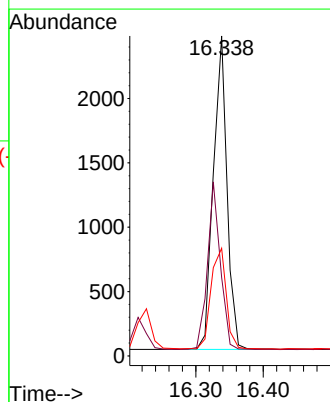
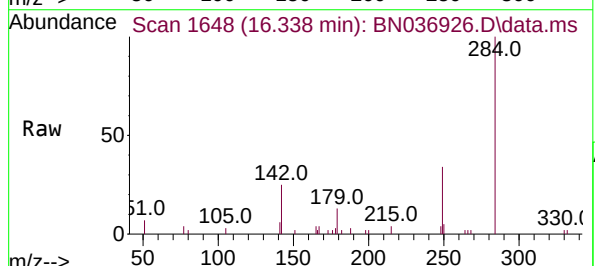
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

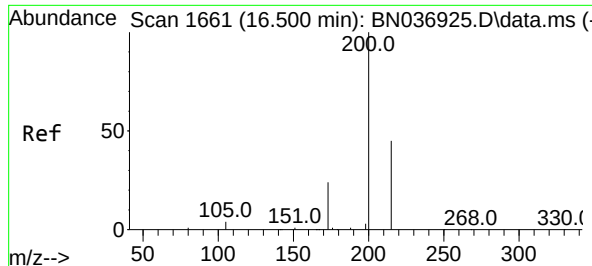
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.6	83.7	125.5
141	48.1	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.762 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.9	40.0	60.0
249	36.1	28.2	42.2

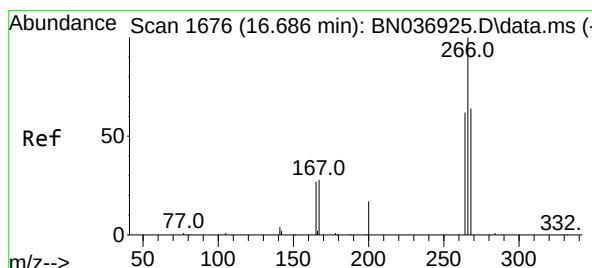
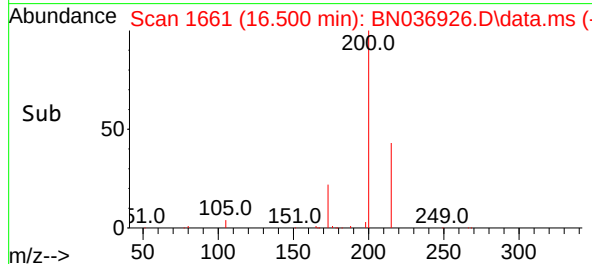
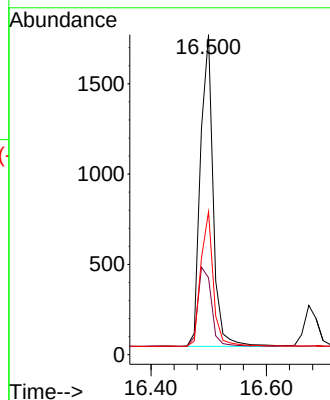
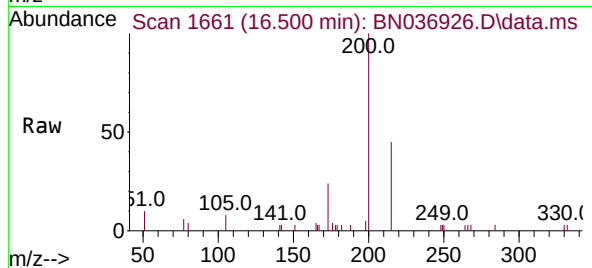




#23
Atrazine
Concen: 0.825 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

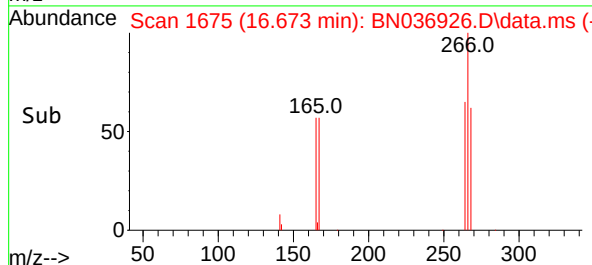
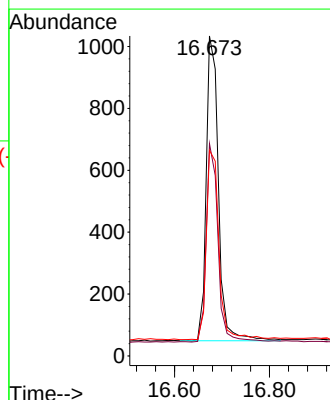
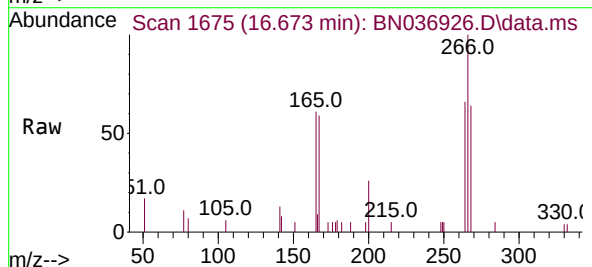
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

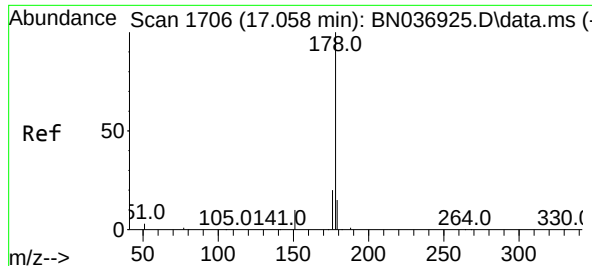
Tgt Ion	200	Resp:	2644
Ion Ratio	Lower	Upper	
200	100		
173	24.0	22.4	33.6
215	44.6	38.6	57.8



#24
Pentachlorophenol
Concen: 0.758 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion	266	Resp:	1767
Ion Ratio	Lower	Upper	
266	100		
264	62.5	49.9	74.9
268	64.1	52.2	78.4

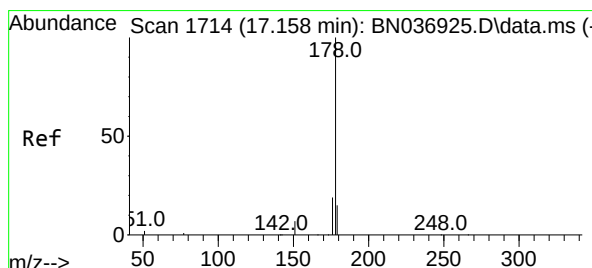
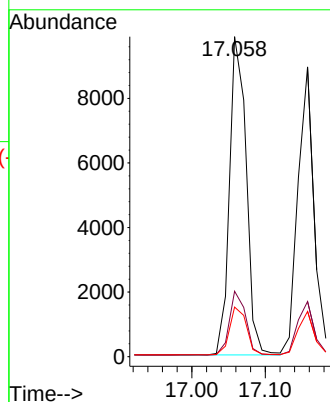
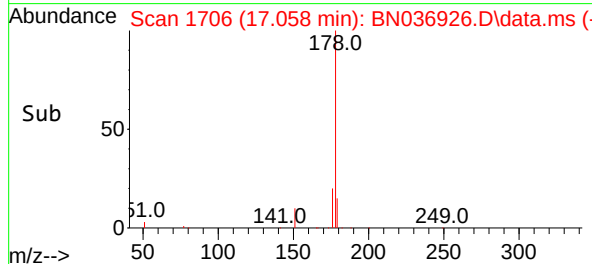
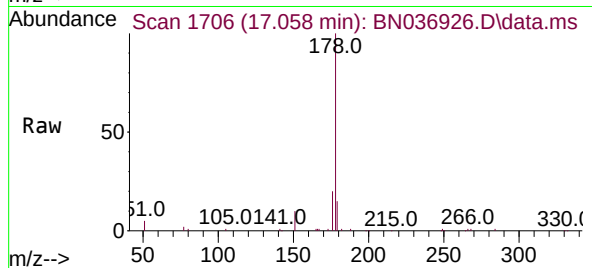




#25
Phenanthrene
Concen: 0.778 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

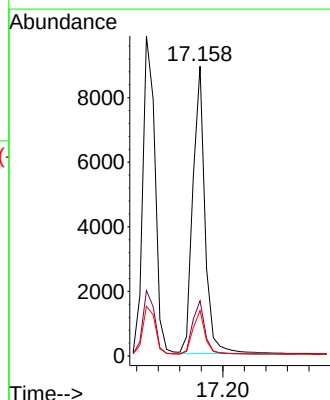
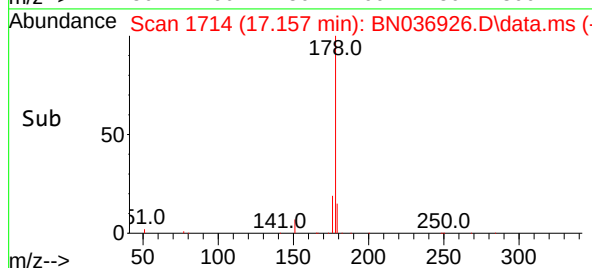
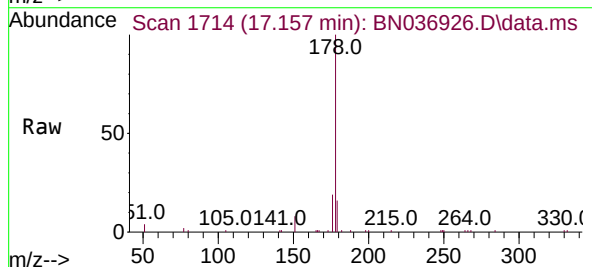
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

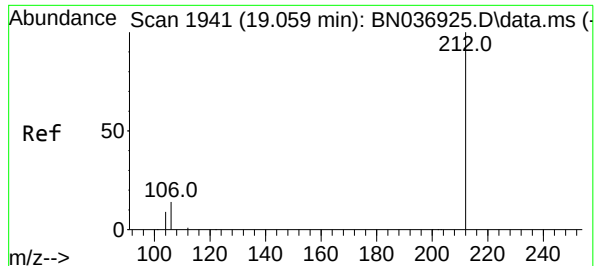
Tgt Ion:178 Resp: 15621
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.2 12.4 18.6



#26
Anthracene
Concen: 0.774 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:178 Resp: 13888
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.1 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.794 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

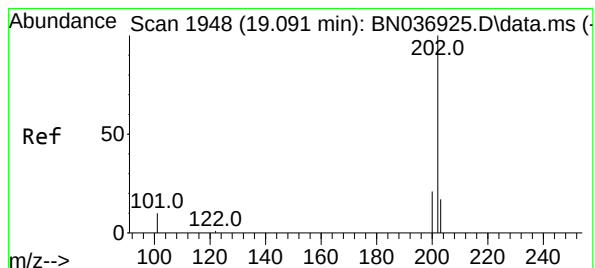
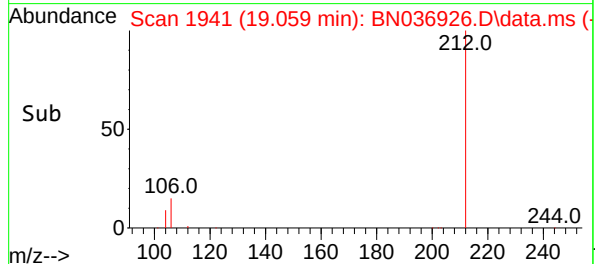
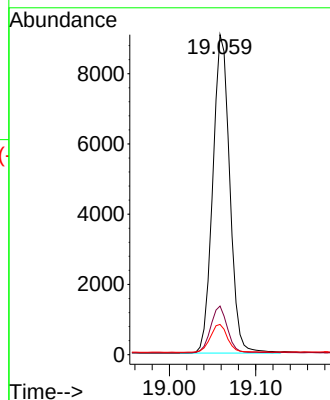
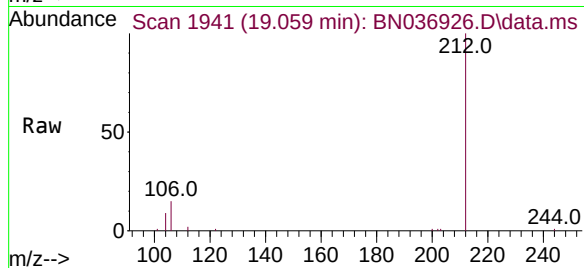
Tgt Ion:212 Resp: 12399

Ion Ratio Lower Upper

212 100

106 14.4 11.6 17.4

104 9.0 7.0 10.4



#28

Fluoranthene

Concen: 0.808 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

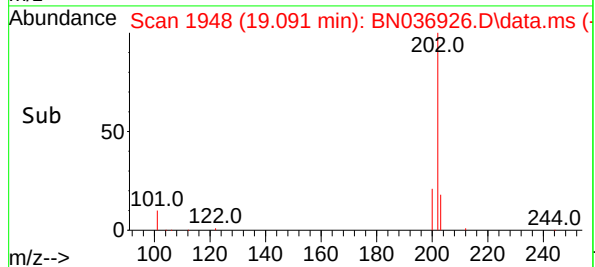
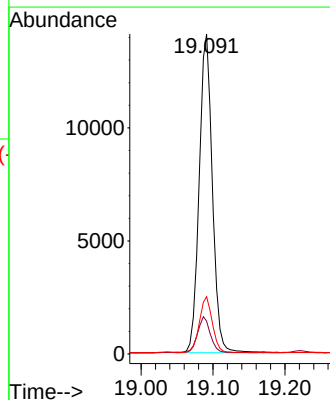
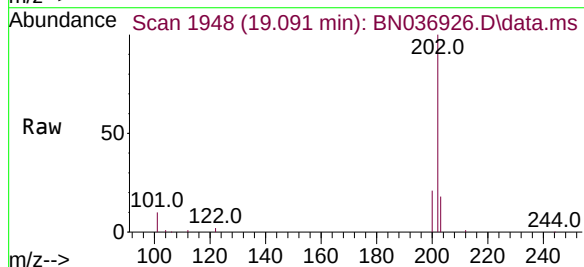
Tgt Ion:202 Resp: 17952

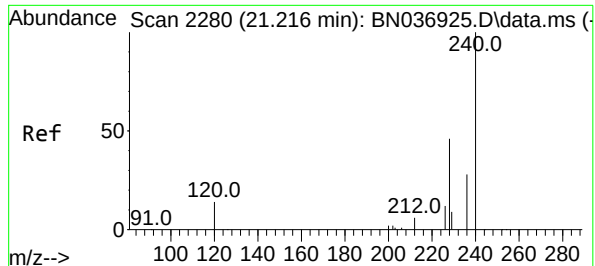
Ion Ratio Lower Upper

202 100

101 11.1 8.5 12.7

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

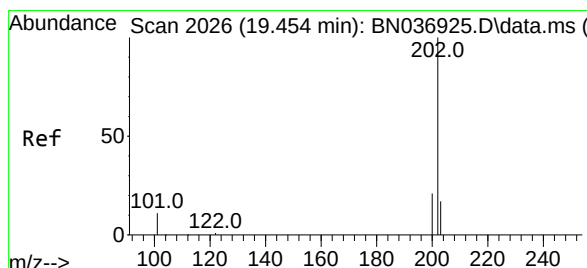
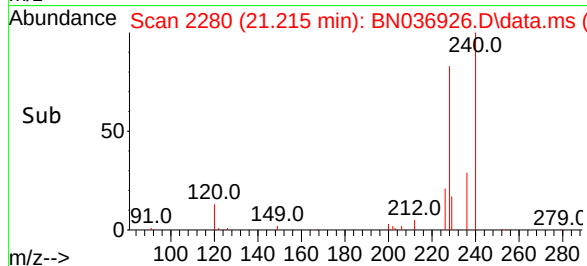
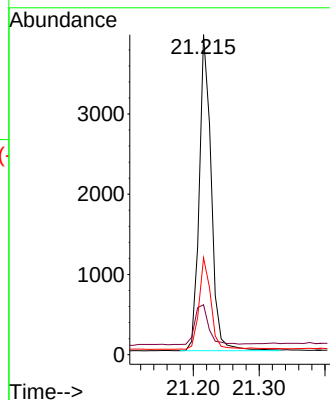
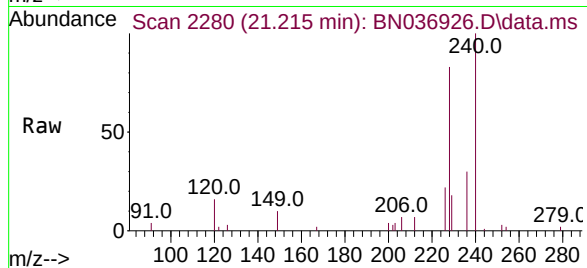
Tgt Ion:240 Resp: 4993

Ion Ratio Lower Upper

240 100

120 15.6 14.1 21.1

236 30.3 23.8 35.8



#30

Pyrene

Concen: 0.741 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

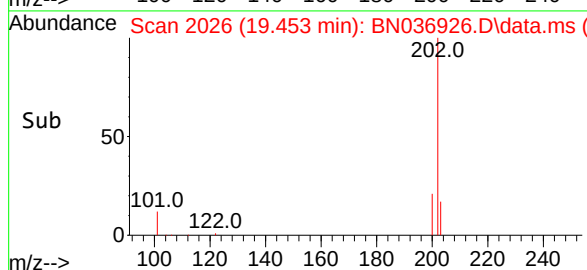
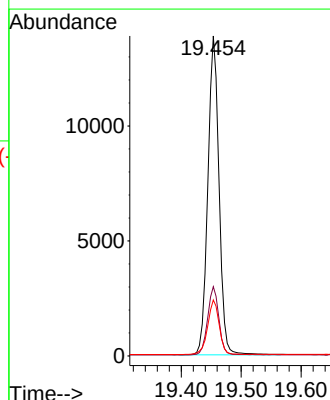
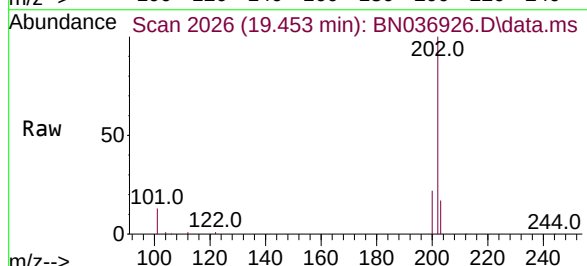
Tgt Ion:202 Resp: 17990

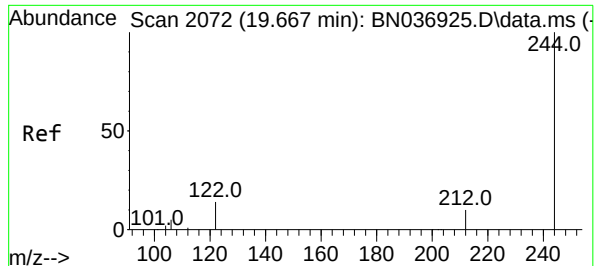
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.7 14.0 21.0

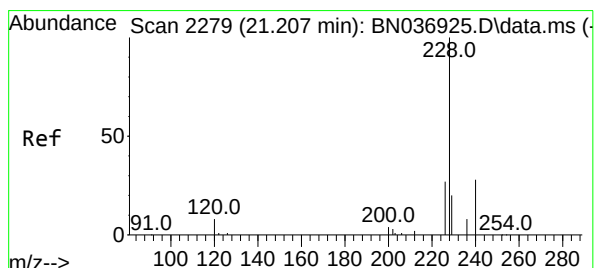
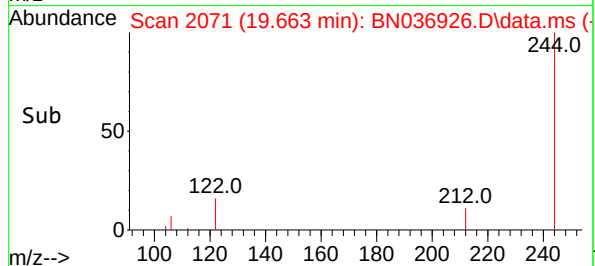
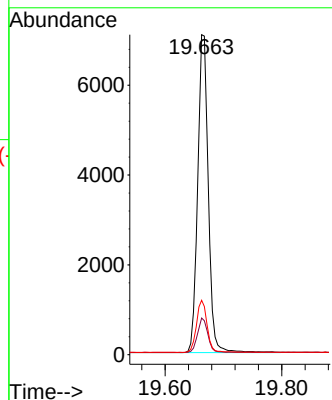
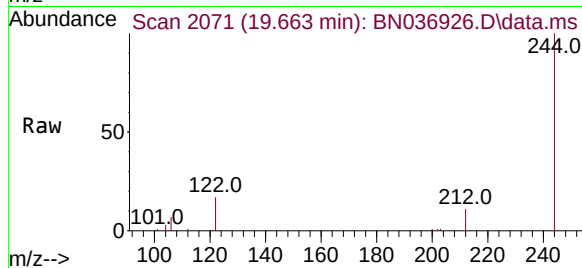




#31
Terphenyl-d14
Concen: 0.750 ng
RT: 19.663 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

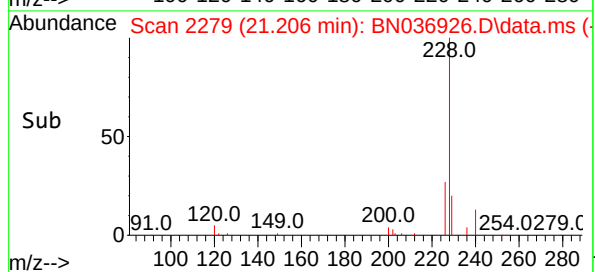
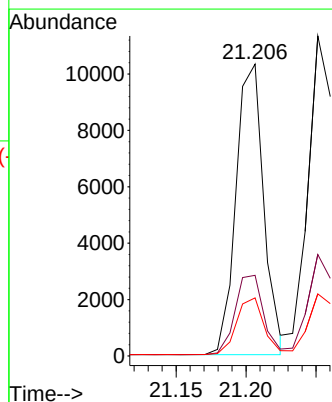
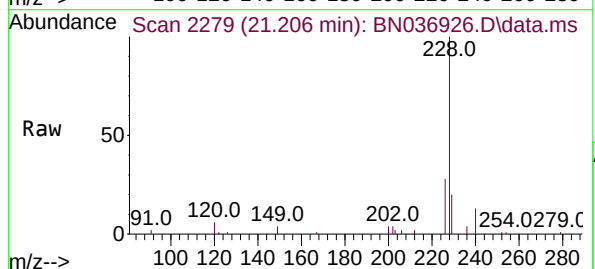
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

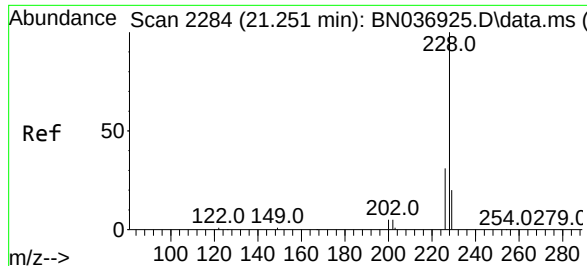
Tgt Ion:244 Resp: 8916
Ion Ratio Lower Upper
244 100
212 11.4 9.6 14.4
122 17.0 12.7 19.1



#32
Benzo(a)anthracene
Concen: 0.780 ng
RT: 21.206 min Scan# 2279
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:228 Resp: 14201
Ion Ratio Lower Upper
228 100
226 27.7 22.2 33.4
229 19.9 16.4 24.6





#33

Chrysene

Concen: 0.792 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

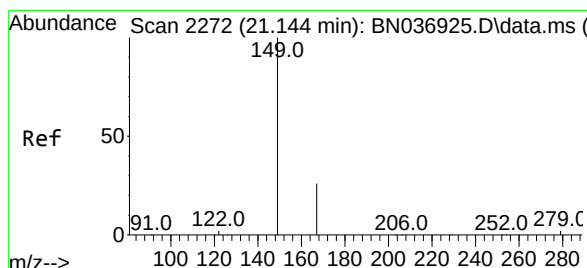
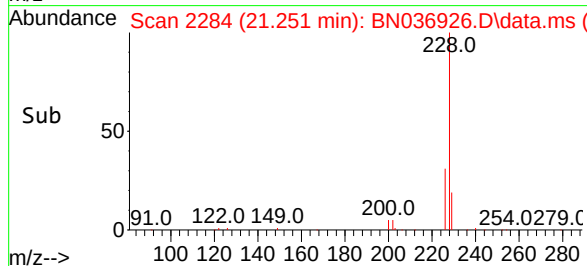
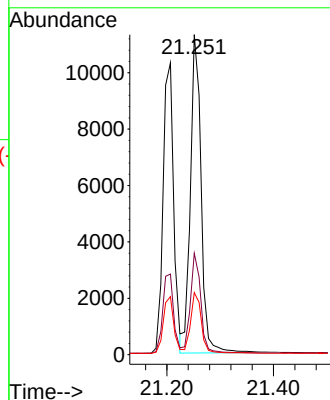
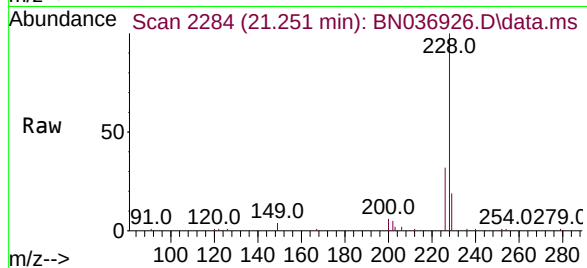
Tgt Ion:228 Resp: 15802

Ion Ratio Lower Upper

228 100

226 31.7 25.5 38.3

229 19.4 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.753 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

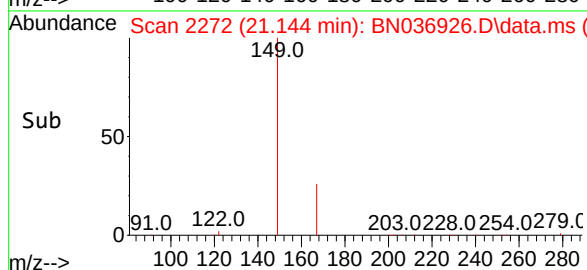
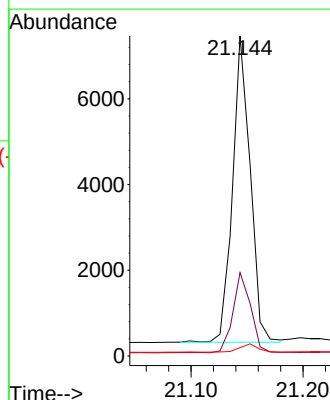
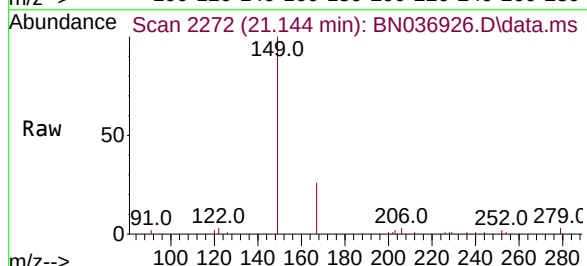
Tgt Ion:149 Resp: 7831

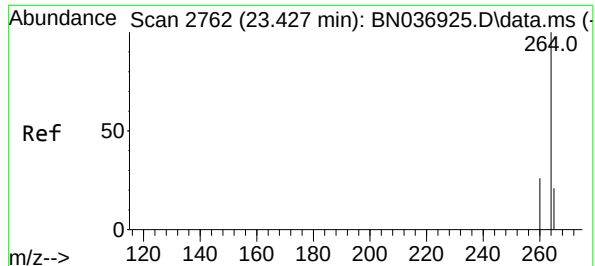
Ion Ratio Lower Upper

149 100

167 26.1 21.0 31.6

279 2.7 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

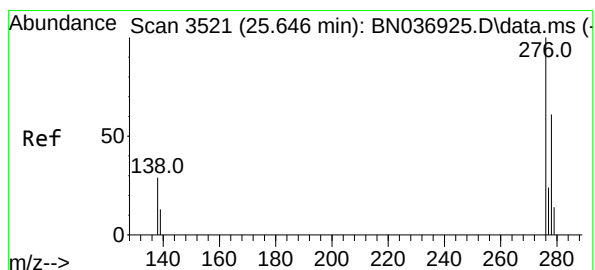
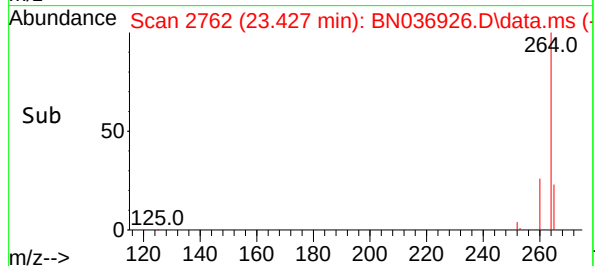
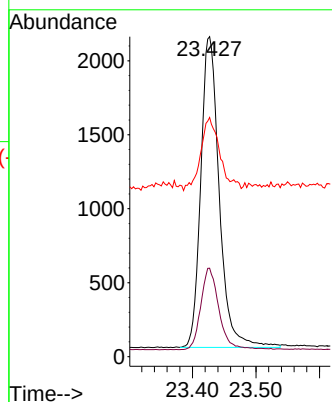
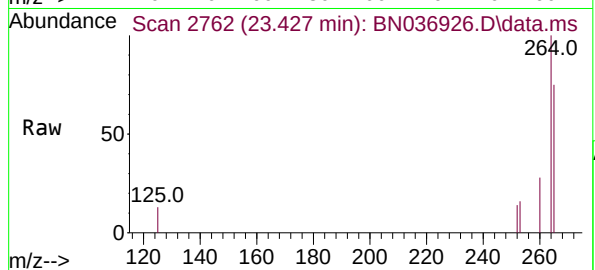
Tgt Ion:264 Resp: 4243

Ion Ratio Lower Upper

264 100

260 27.6 22.2 33.2

265 74.8 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.734 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

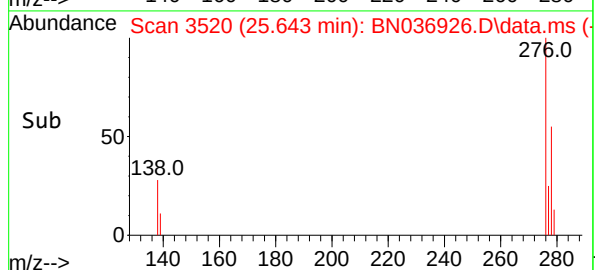
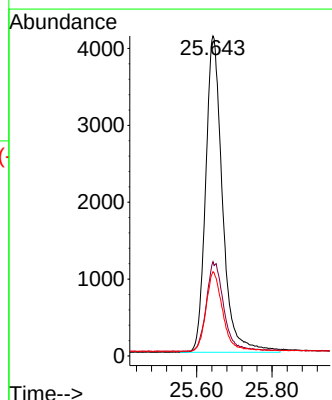
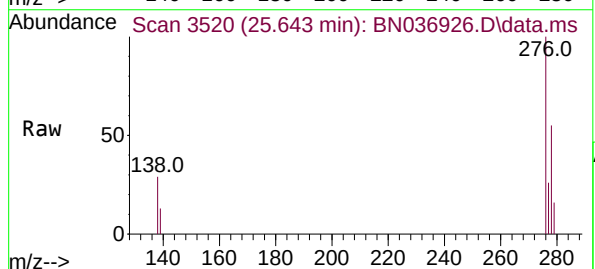
Tgt Ion:276 Resp: 12758

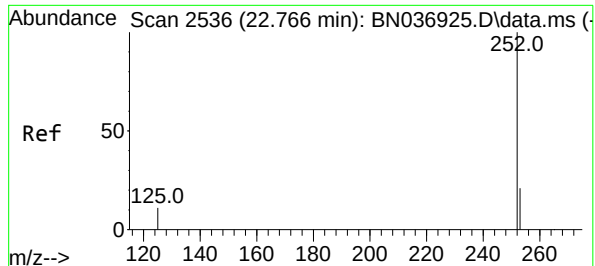
Ion Ratio Lower Upper

276 100

138 28.8 23.0 34.6

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.786 ng

RT: 22.766 min Scan# 2536

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

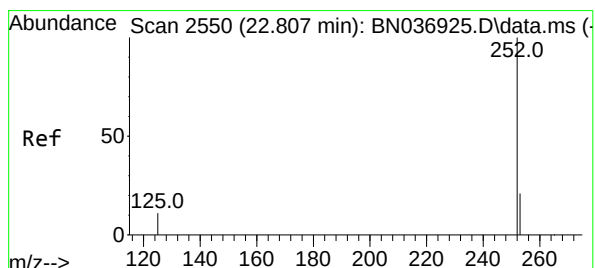
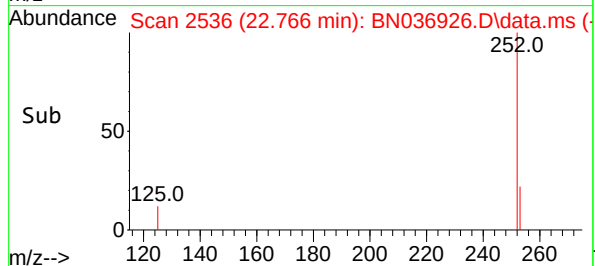
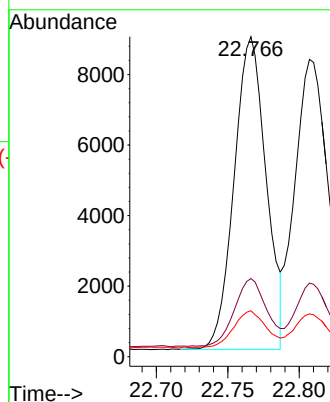
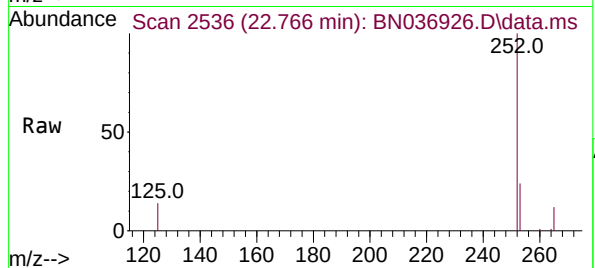
Tgt Ion:252 Resp: 13818

Ion Ratio Lower Upper

252 100

253 24.4 22.1 33.1

125 14.3 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.783 ng

RT: 22.807 min Scan# 2550

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

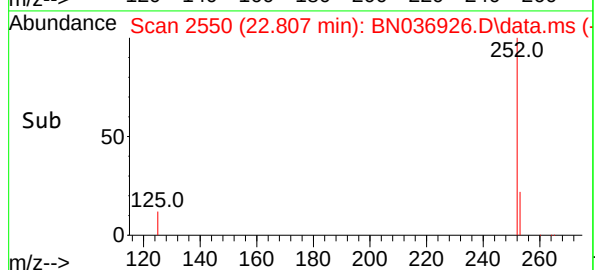
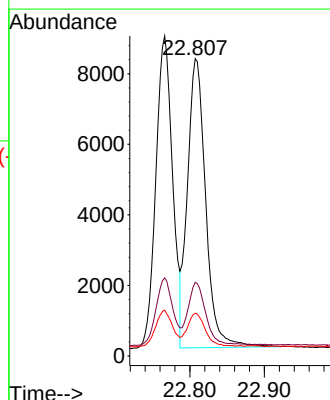
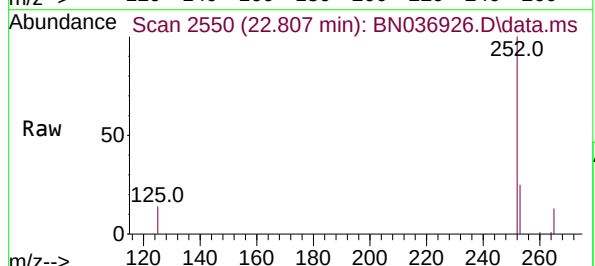
Tgt Ion:252 Resp: 13927

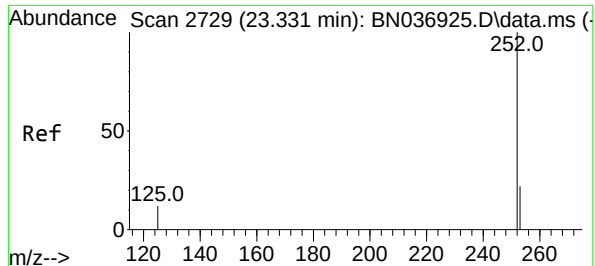
Ion Ratio Lower Upper

252 100

253 24.8 22.8 34.2

125 14.4 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.770 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

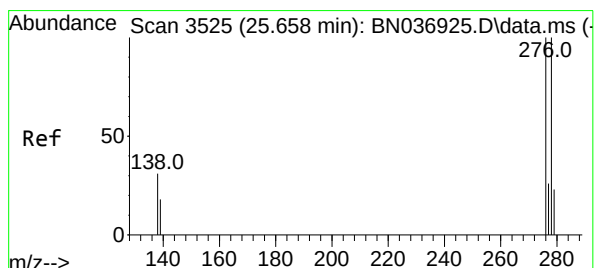
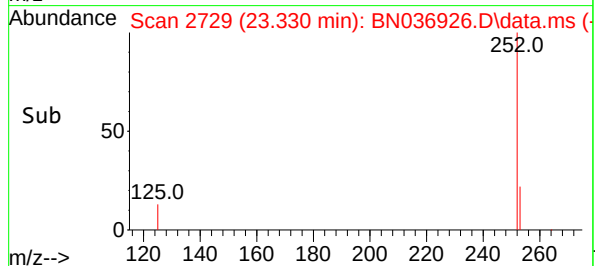
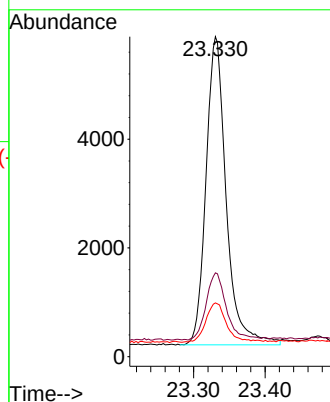
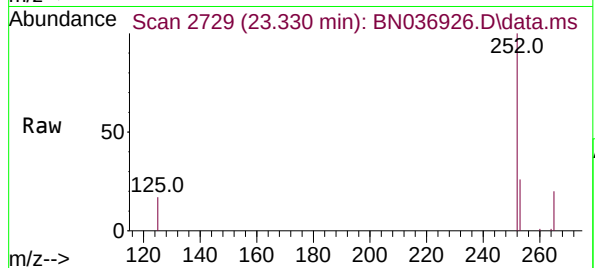
Tgt Ion:252 Resp: 11160

Ion Ratio Lower Upper

252 100

253 26.2 25.9 38.9

125 16.8 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.730 ng

RT: 25.661 min Scan# 3526

Delta R.T. 0.003 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

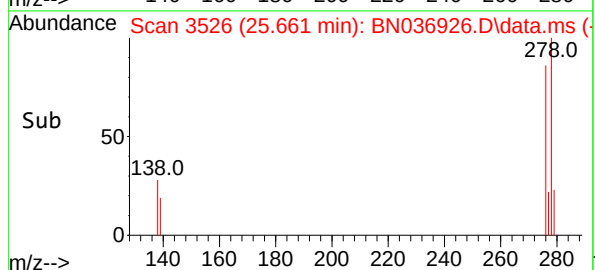
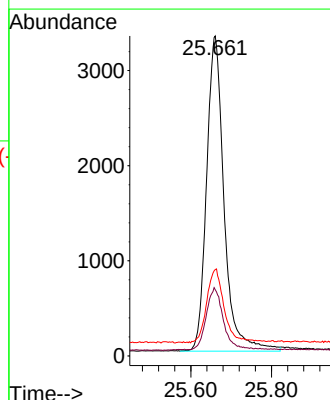
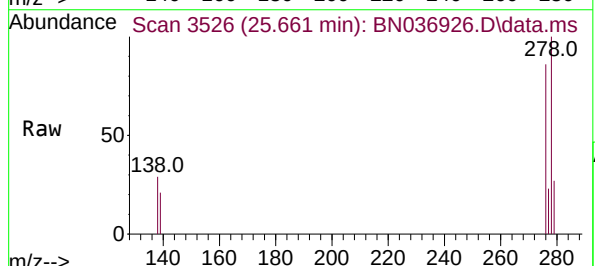
Tgt Ion:278 Resp: 9982

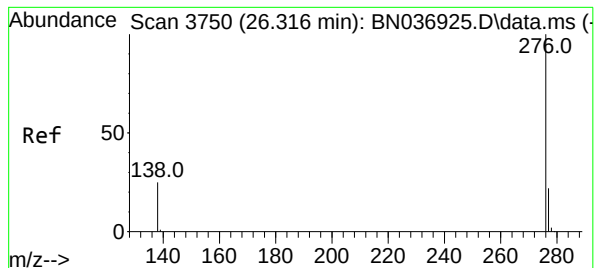
Ion Ratio Lower Upper

278 100

139 20.7 17.4 26.2

279 27.0 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.724 ng

RT: 26.321 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036926.D

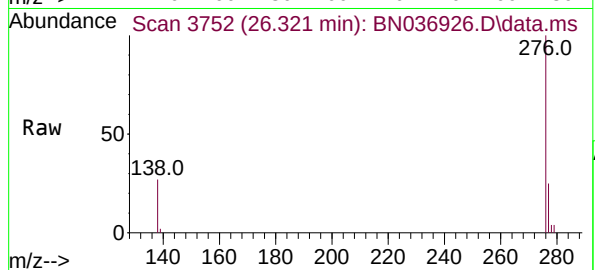
Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



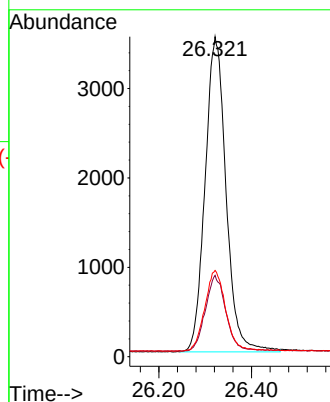
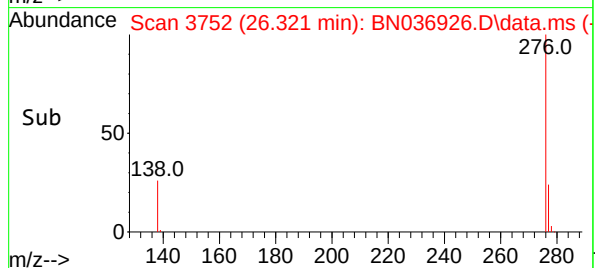
Tgt Ion:276 Resp: 11072

Ion Ratio Lower Upper

276 100

277 25.4 20.2 30.2

138 27.0 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036927.D
 Acq On : 28 Apr 2025 14:00
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Apr 28 15:13:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

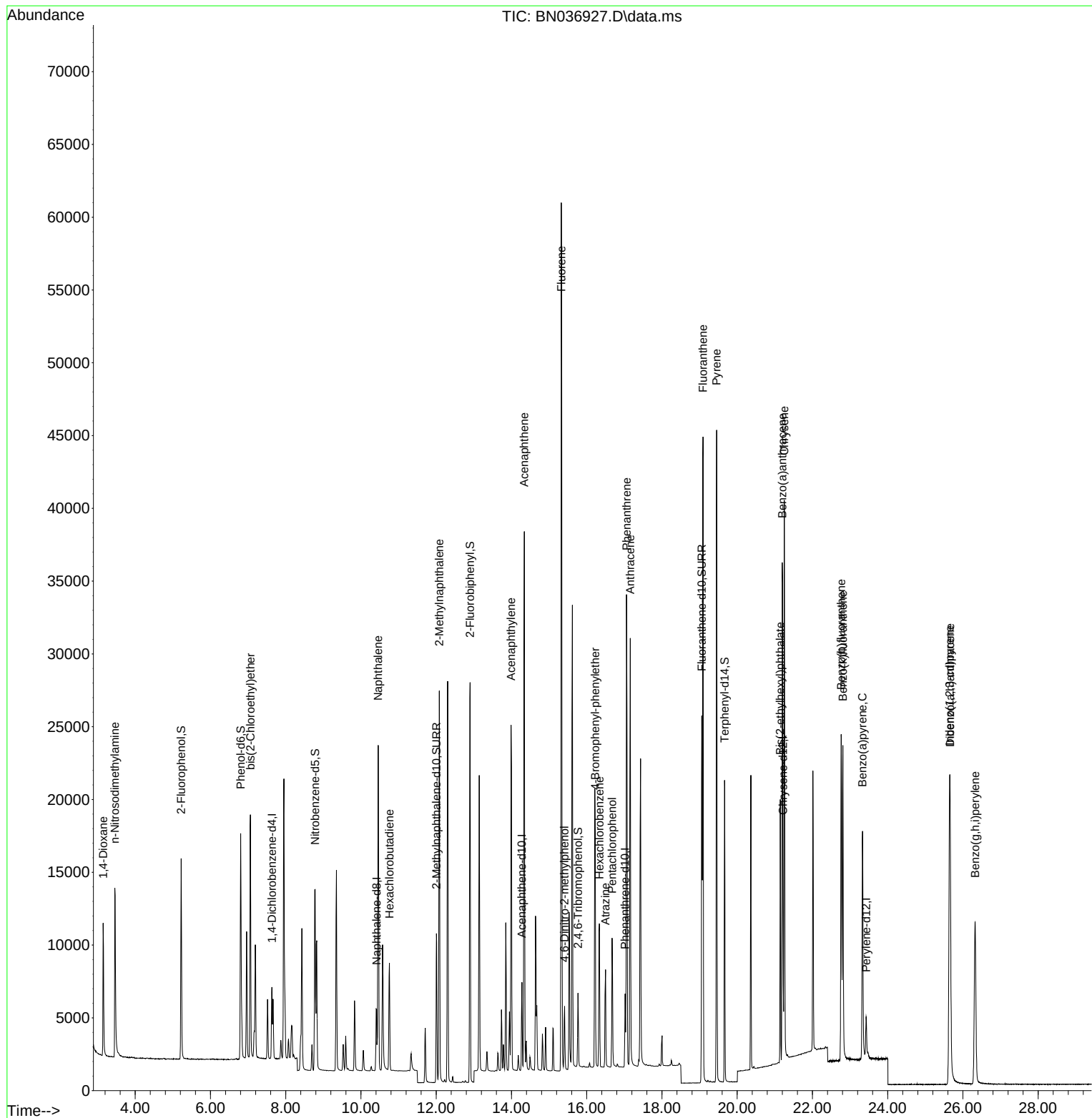
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2241	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5594	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3185	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6118	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4605	0.400	ng	0.00
35) Perylene-d12	23.427	264	3734	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	9327	1.613	ng	0.00
5) Phenol-d6	6.802	99	11600	1.647	ng	0.00
8) Nitrobenzene-d5	8.781	82	9972	1.716	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	13343	1.720	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	2388	1.711	ng	0.00
15) 2-Fluorobiphenyl	12.898	172	25773	1.673	ng	0.00
27) Fluoranthene-d10	19.059	212	26603	1.699	ng	0.00
31) Terphenyl-d14	19.667	244	18514	1.689	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.148	88	4813	1.701	ng	96
3) n-Nitrosodimethylamine	3.458	42	9269	1.696	ng	# 98
6) bis(2-Chloroethyl)ether	7.062	93	11118	1.699	ng	99
9) Naphthalene	10.458	128	27421	1.684	ng	98
10) Hexachlorobutadiene	10.756	225	5873	1.655	ng	# 98
12) 2-Methylnaphthalene	12.082	142	17991	1.727	ng	99
16) Acenaphthylene	13.988	152	26335	1.708	ng	100
17) Acenaphthene	14.341	154	16981	1.665	ng	99
18) Fluorene	15.325	166	22781	1.715	ng	98
20) 4,6-Dinitro-2-methylph...	15.410	198	2759	1.800	ng	# 58
21) 4-Bromophenyl-phenylether	16.226	248	6907	1.695	ng	95
22) Hexachlorobenzene	16.338	284	7427	1.650	ng	99
23) Atrazine	16.500	200	5555	1.729	ng	93
24) Pentachlorophenol	16.673	266	3995	1.710	ng	98
25) Phenanthrene	17.058	178	33948	1.687	ng	99
26) Anthracene	17.157	178	31205	1.734	ng	100
28) Fluoranthene	19.091	202	38607	1.732	ng	99
30) Pyrene	19.453	202	38176	1.706	ng	100
32) Benzo(a)anthracene	21.197	228	29164	1.737	ng	98
33) Chrysene	21.251	228	31322	1.703	ng	98
34) Bis(2-ethylhexyl)phtha...	21.144	149	14810	1.544	ng	99
36) Indeno(1,2,3-cd)pyrene	25.643	276	25695	1.681	ng	99
37) Benzo(b)fluoranthene	22.763	252	26826	1.733	ng	# 91
38) Benzo(k)fluoranthene	22.807	252	27065	1.730	ng	# 90
39) Benzo(a)pyrene	23.330	252	21844	1.712	ng	# 85
40) Dibenzo(a,h)anthracene	25.658	278	20274	1.685	ng	# 92
41) Benzo(g,h,i)perylene	26.324	276	22323	1.659	ng	97

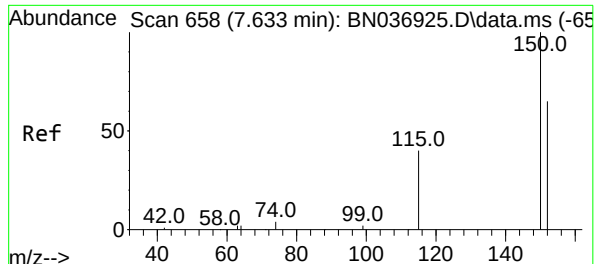
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036927.D
Acq On : 28 Apr 2025 14:00
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Apr 28 15:13:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

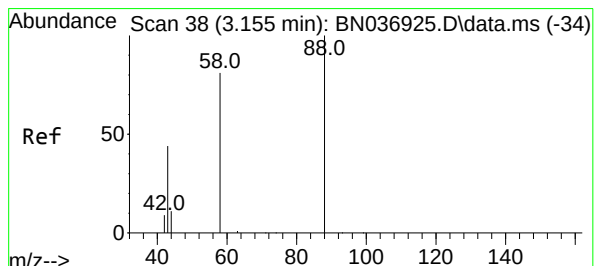
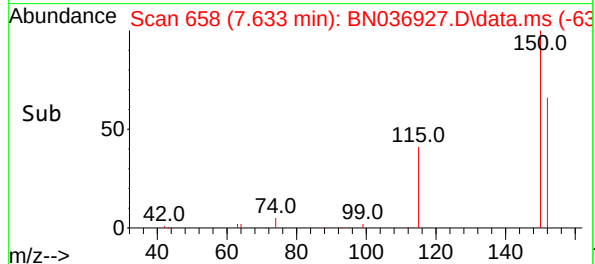
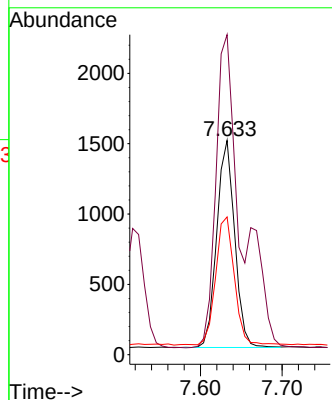
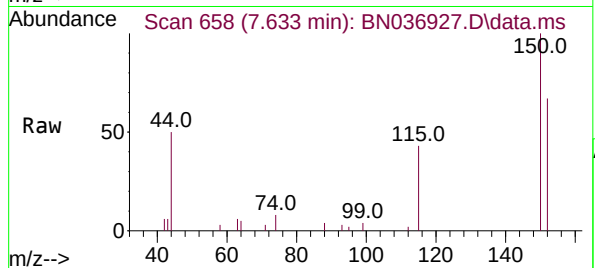




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

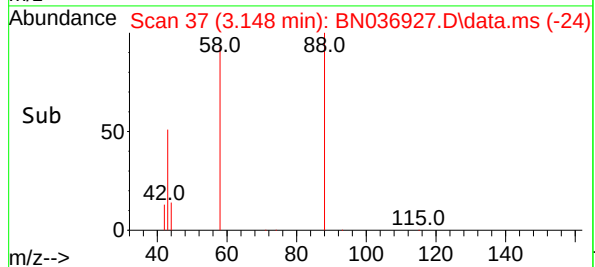
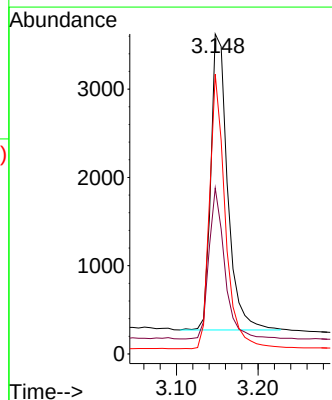
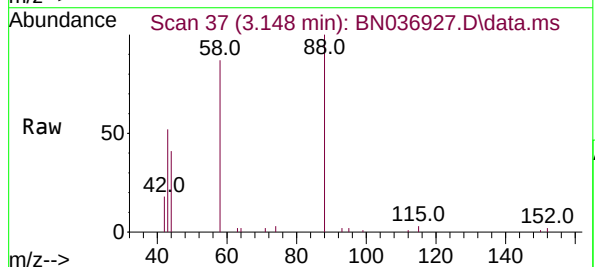
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

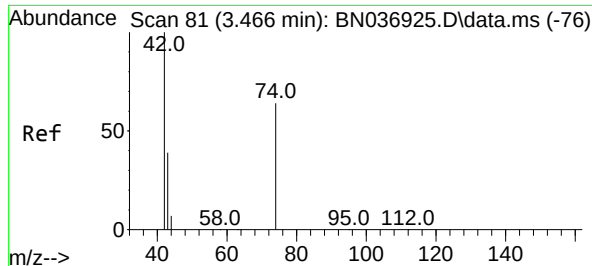
Tgt Ion:152 Resp: 2241
Ion Ratio Lower Upper
152 100
150 149.4 121.1 181.7
115 64.3 51.8 77.6



#2
1,4-Dioxane
Concen: 1.701 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 88 Resp: 4813
Ion Ratio Lower Upper
88 100
43 48.0 37.9 56.9
58 86.9 65.8 98.6

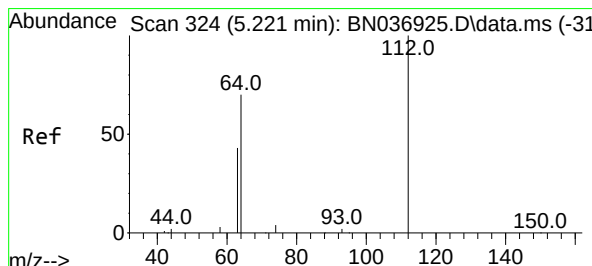
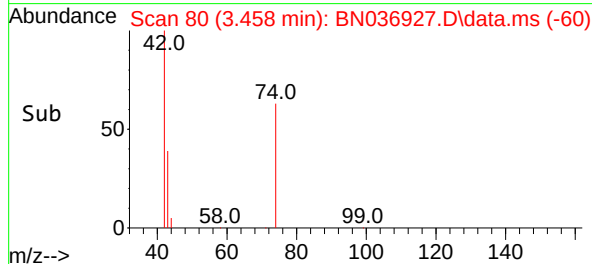
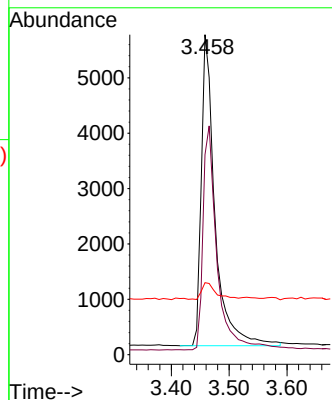
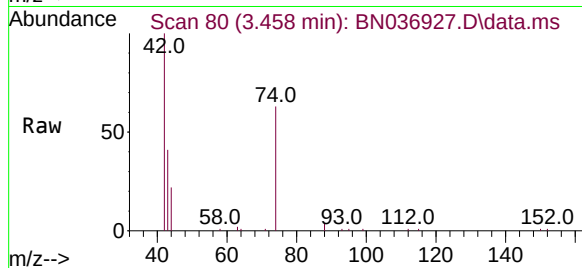




#3
n-Nitrosodimethylamine
Concen: 1.696 ng
RT: 3.458 min Scan# 80
Delta R.T. -0.007 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

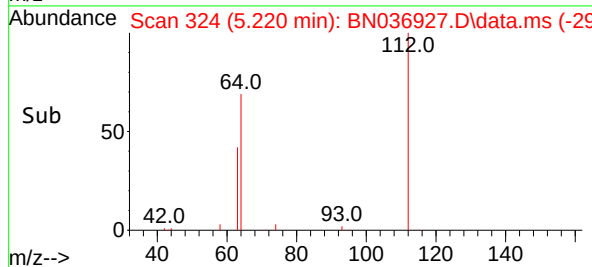
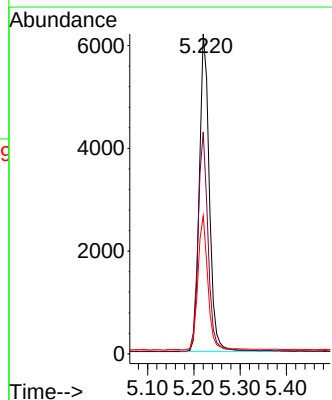
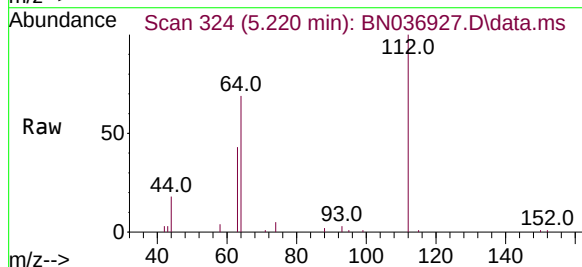
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

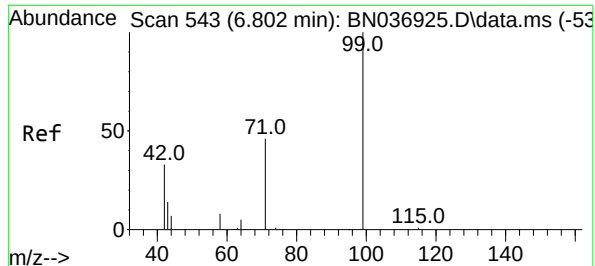
Tgt Ion: 42 Resp: 9269
Ion Ratio Lower Upper
42 100
74 73.6 59.9 89.9
44 5.5 7.5 11.3#



#4
2-Fluorophenol
Concen: 1.613 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 112 Resp: 9327
Ion Ratio Lower Upper
112 100
64 68.9 55.7 83.5
63 42.2 33.9 50.9

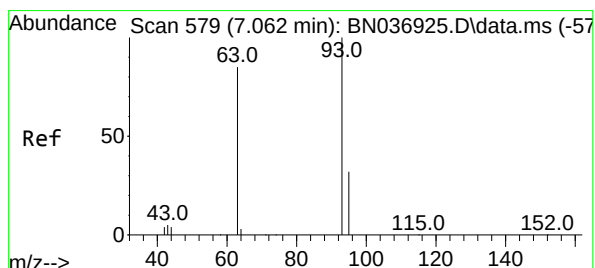
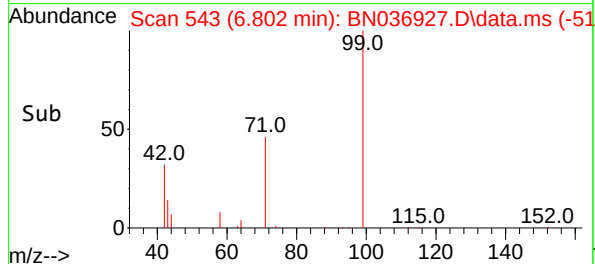
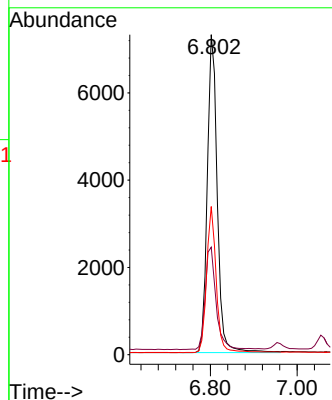
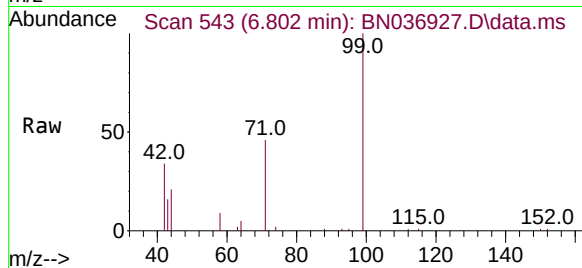




#5
Phenol-d6
Concen: 1.647 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

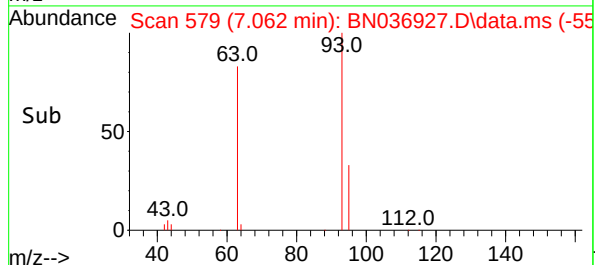
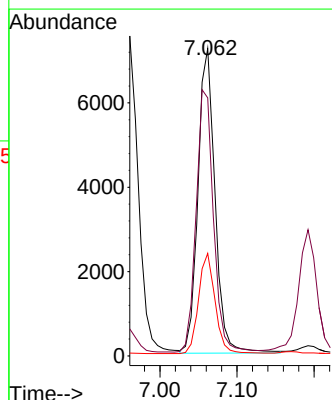
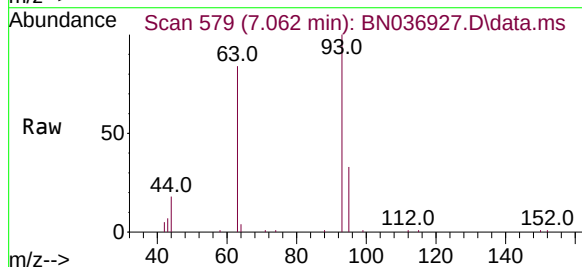
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

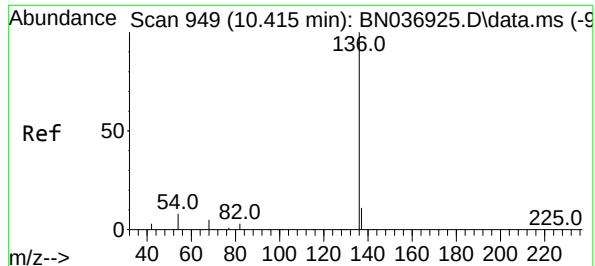
Tgt Ion: 99 Resp: 11600
Ion Ratio Lower Upper
99 100
42 35.3 29.6 44.4
71 44.4 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 1.699 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 93 Resp: 11118
Ion Ratio Lower Upper
93 100
63 87.5 69.0 103.6
95 31.9 25.4 38.0

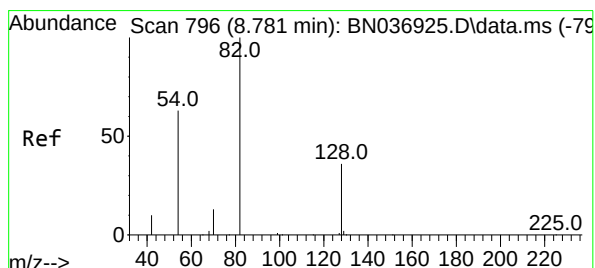
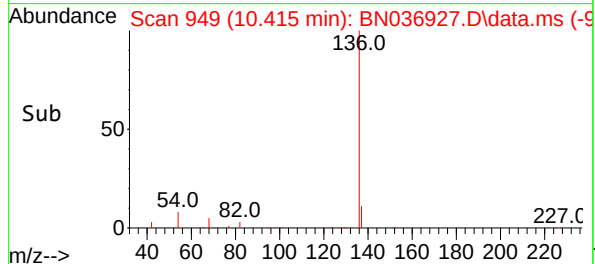
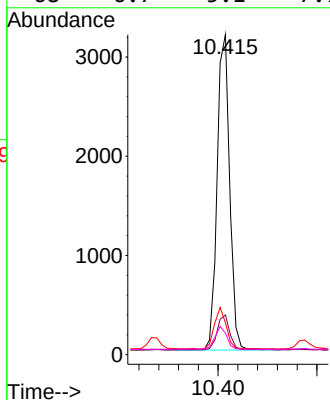
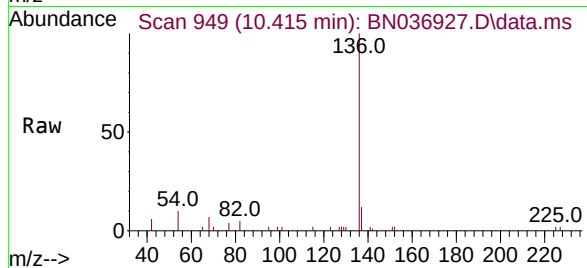




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

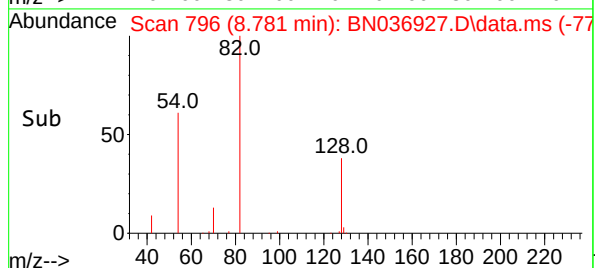
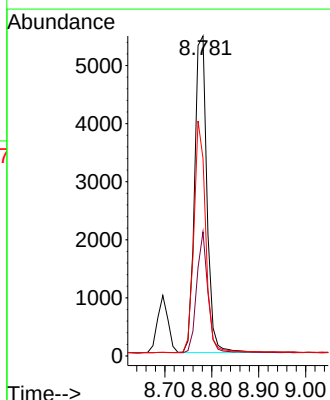
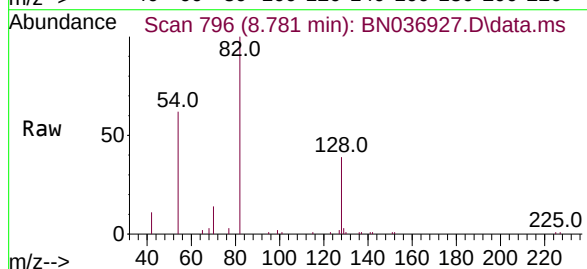
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

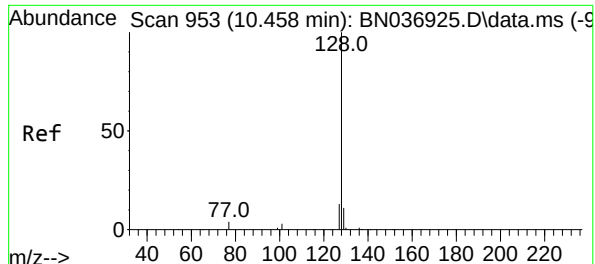
Tgt Ion:136	Resp:	5594
Ion	Ratio	Lower Upper
136	100	
137	12.4	9.7 14.5
54	10.0	8.0 12.0
68	6.7	5.1 7.7



#8
Nitrobenzene-d5
Concen: 1.716 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 82	Resp:	9972
Ion	Ratio	Lower Upper
82	100	
128	38.8	30.7 46.1
54	61.8	52.1 78.1

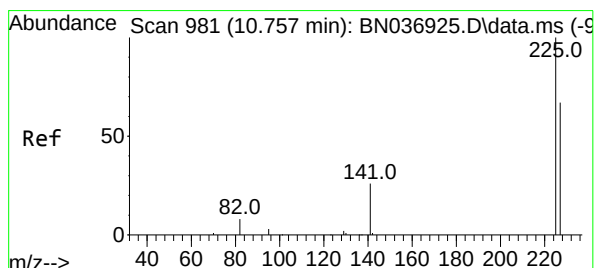
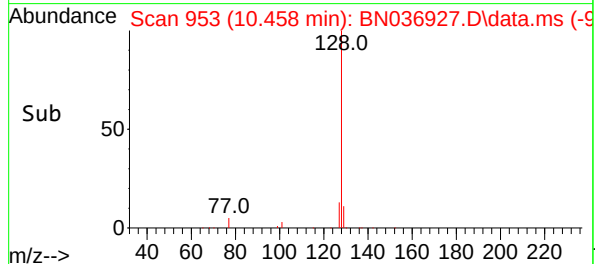
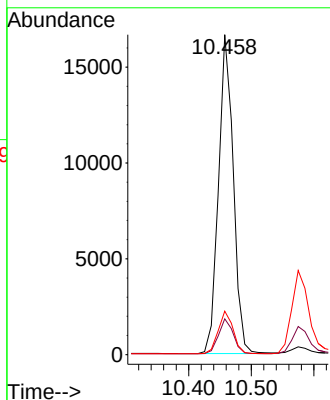
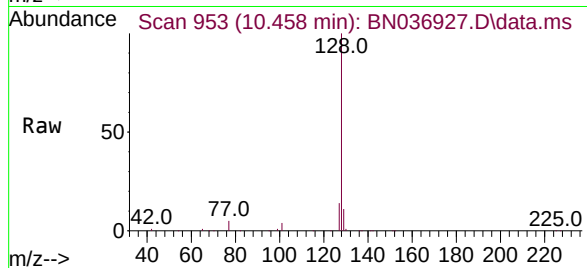




#9
Naphthalene
Concen: 1.684 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

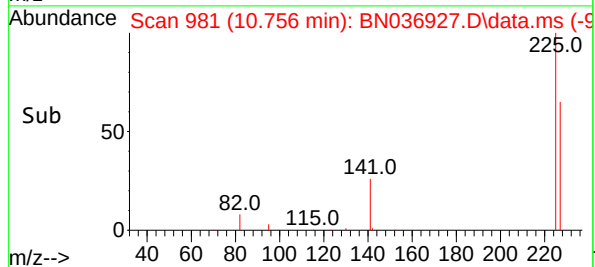
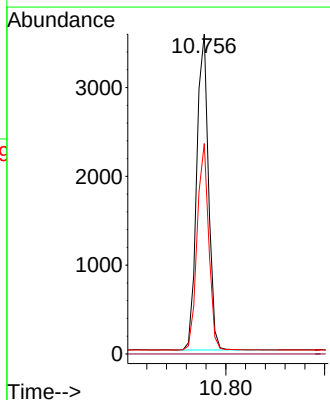
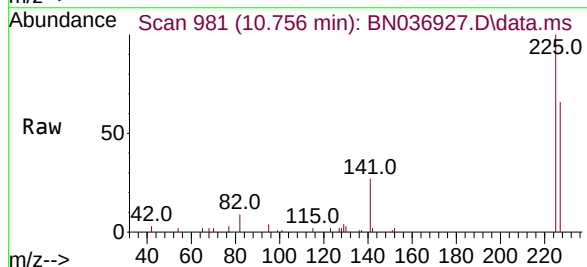
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

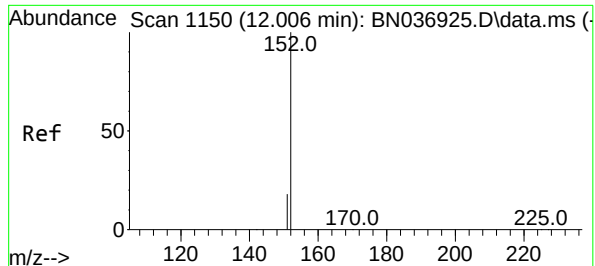
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.8	14.6
127	13.6	11.4	17.2



#10
Hexachlorobutadiene
Concen: 1.655 ng
RT: 10.756 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	52.2	78.4

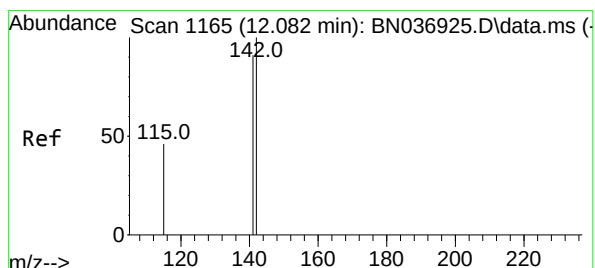
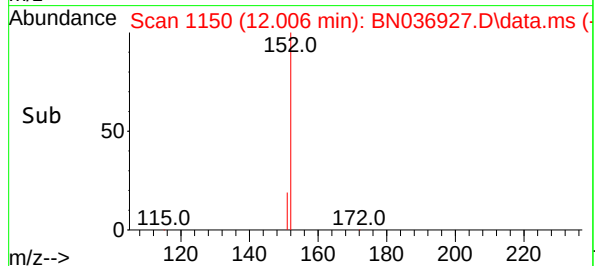
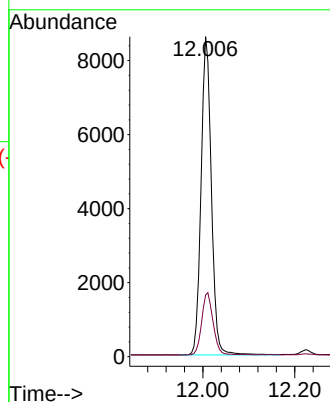
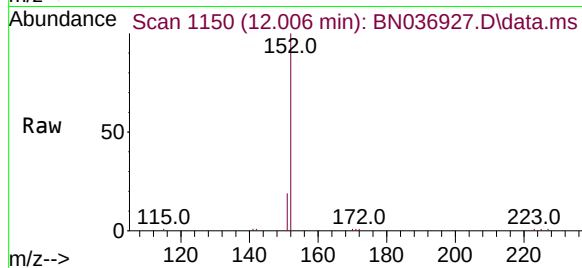




#11
2-Methylnaphthalene-d10
Concen: 1.720 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

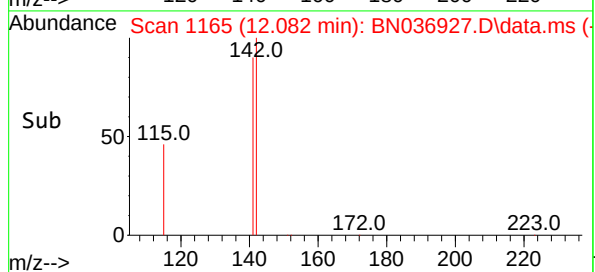
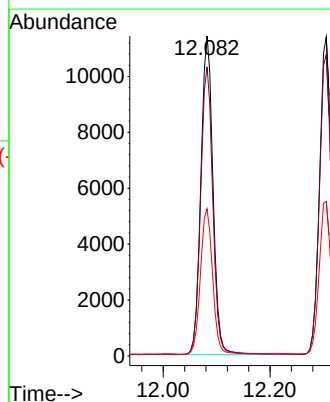
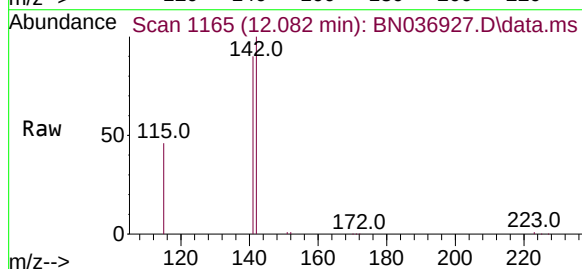
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

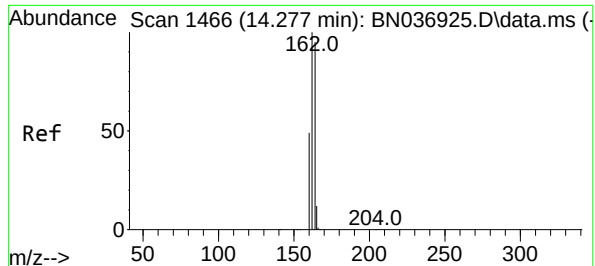
Tgt Ion:152 Resp: 13343
Ion Ratio Lower Upper
152 100
151 21.6 16.9 25.3



#12
2-Methylnaphthalene
Concen: 1.727 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:142 Resp: 17991
Ion Ratio Lower Upper
142 100
141 90.3 72.8 109.2
115 46.0 38.2 57.4

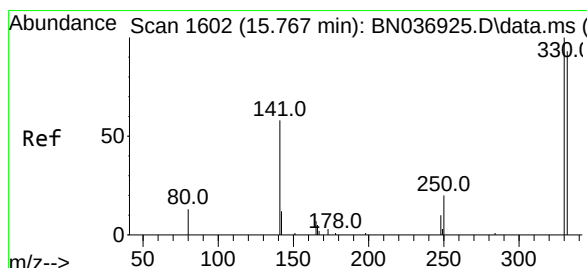
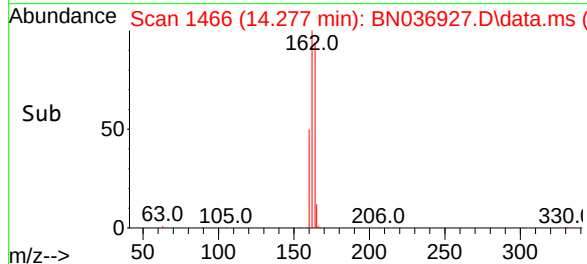
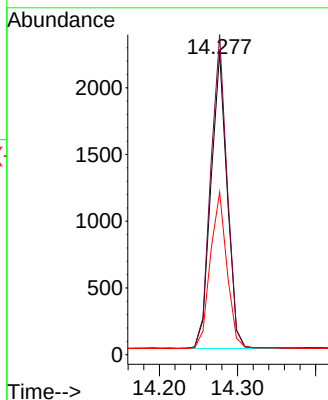
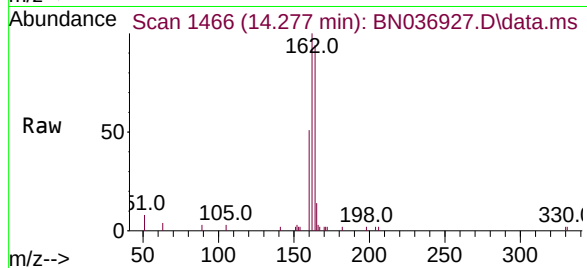




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

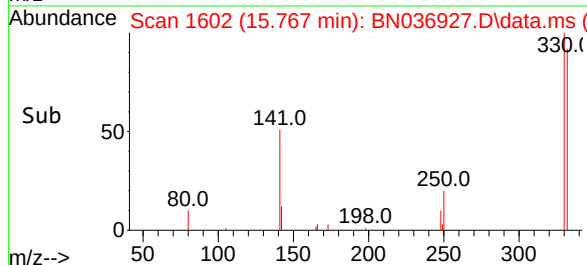
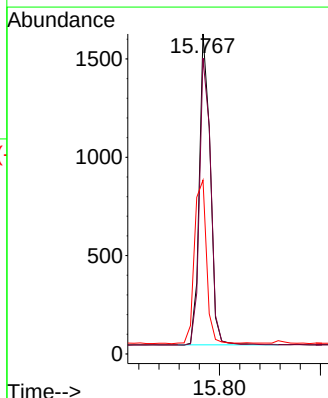
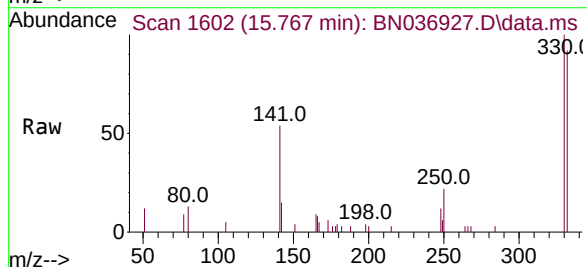
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

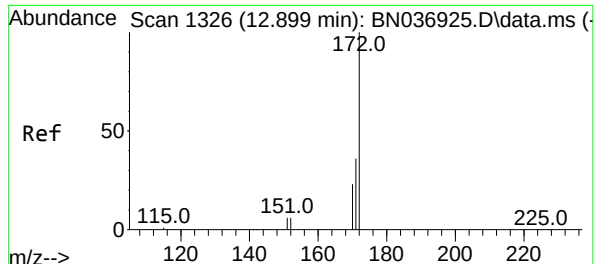
Tgt Ion	164	Resp:	3185
Ion	Ratio	Lower	Upper
164	100		
162	105.9	83.8	125.8
160	53.8	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 1.711 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion	330	Resp:	2388
Ion	Ratio	Lower	Upper
330	100		
332	95.3	76.3	114.5
141	58.3	45.4	68.2





#15

2-Fluorobiphenyl

Concen: 1.673 ng

RT: 12.898 min Scan# 1439

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

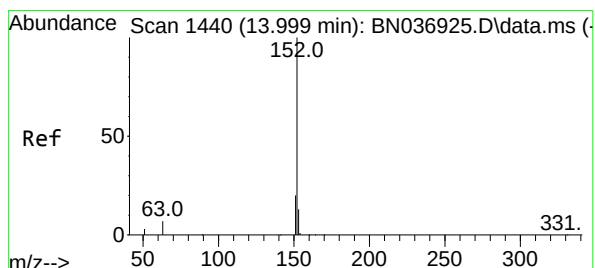
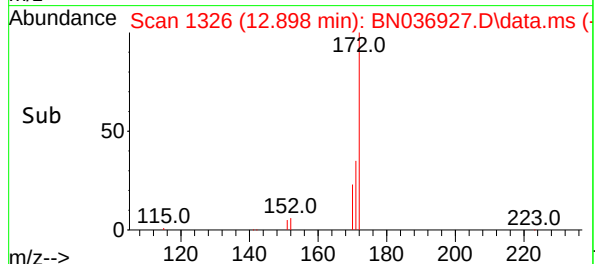
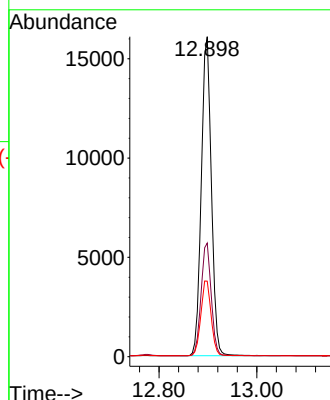
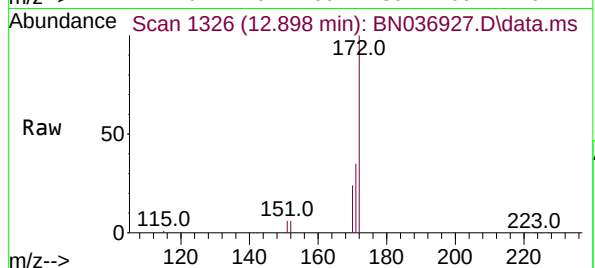
Tgt Ion:172 Resp: 25773

Ion Ratio Lower Upper

172 100

171 35.5 29.4 44.0

170 23.6 19.4 29.0



#16

Acenaphthylene

Concen: 1.708 ng

RT: 13.988 min Scan# 1439

Delta R.T. -0.011 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

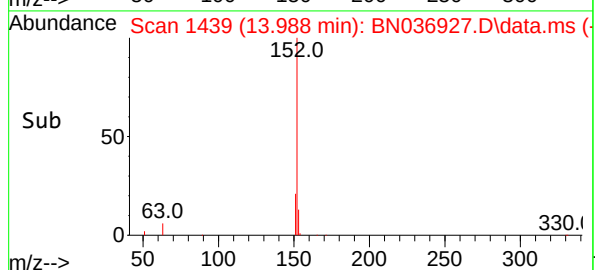
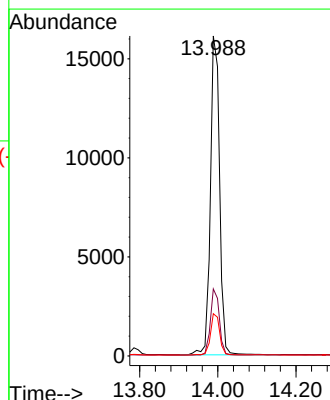
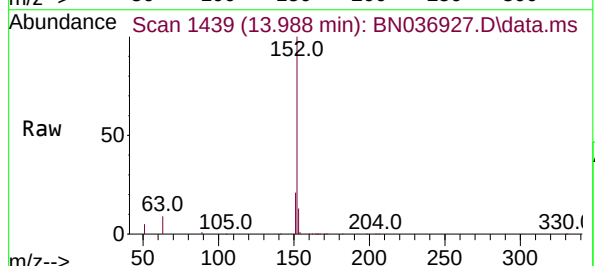
Tgt Ion:152 Resp: 26335

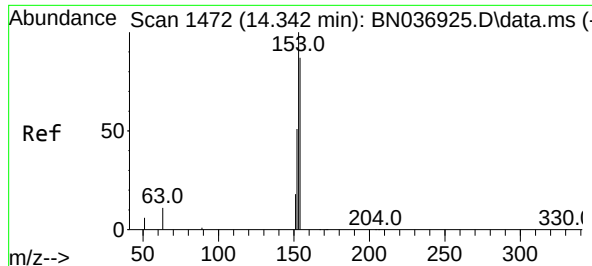
Ion Ratio Lower Upper

152 100

151 20.0 16.0 24.0

153 13.0 10.2 15.2





#17

Acenaphthene

Concen: 1.665 ng

RT: 14.341 min Scan# 1472

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

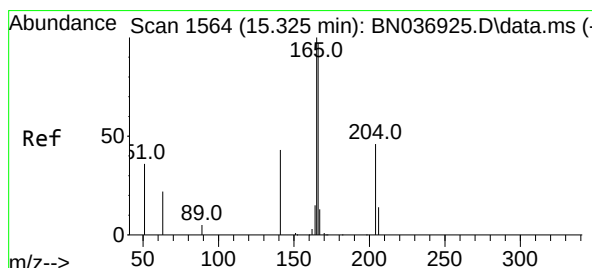
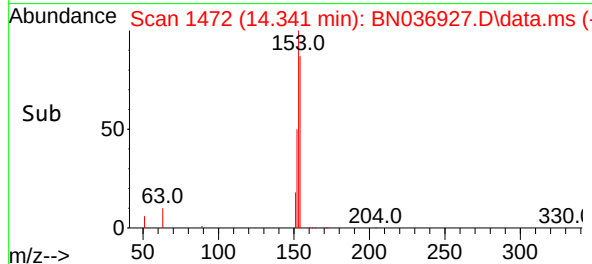
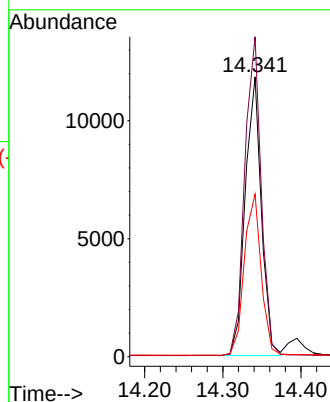
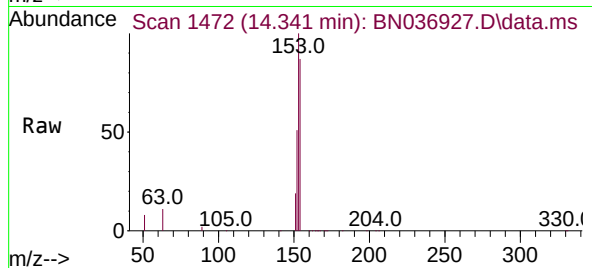
Tgt Ion:154 Resp: 16981

Ion Ratio Lower Upper

154 100

153 116.6 93.4 140.2

152 60.9 49.5 74.3



#18

Fluorene

Concen: 1.715 ng

RT: 15.325 min Scan# 1564

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

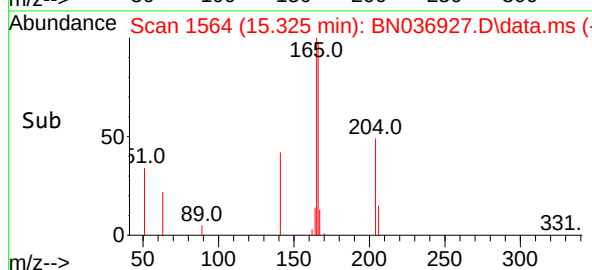
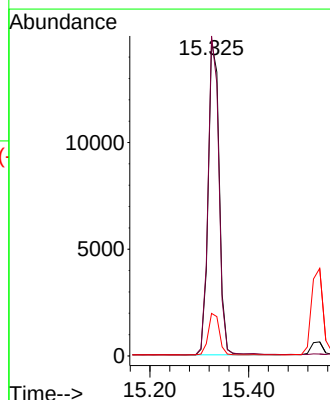
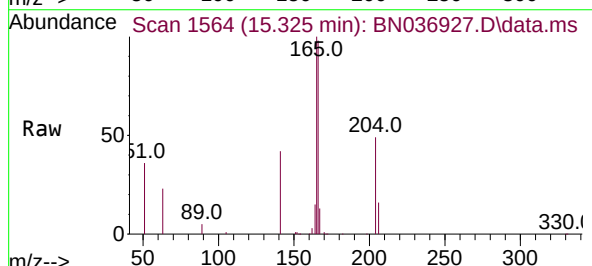
Tgt Ion:166 Resp: 22781

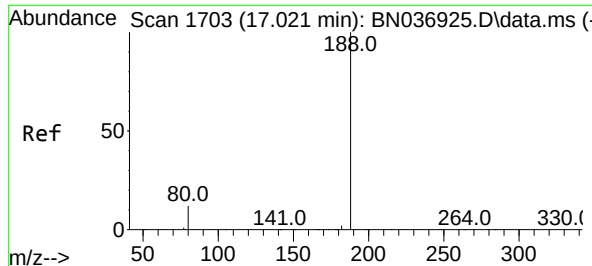
Ion Ratio Lower Upper

166 100

165 99.0 80.8 121.2

167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

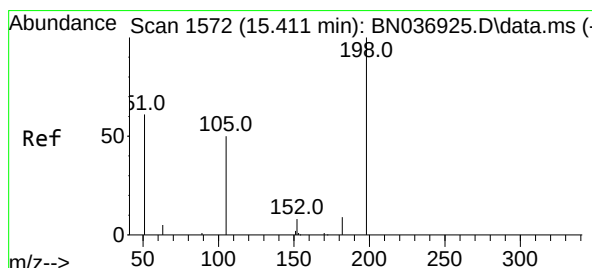
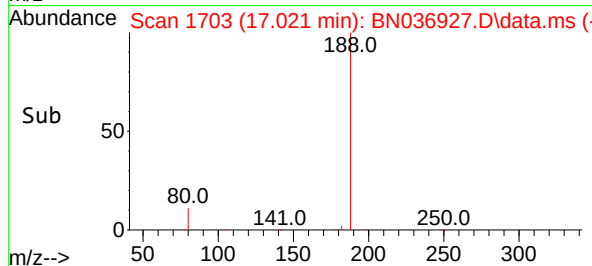
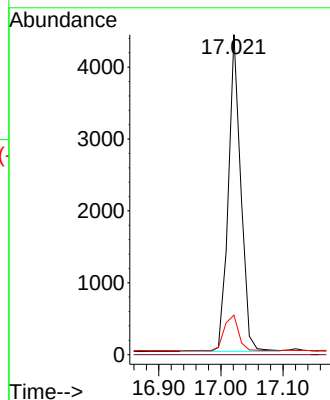
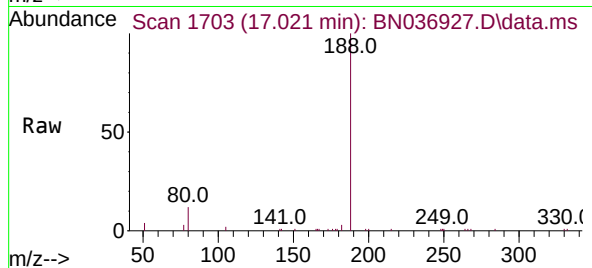
Tgt Ion:188 Resp: 6118

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.3 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 1.800 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

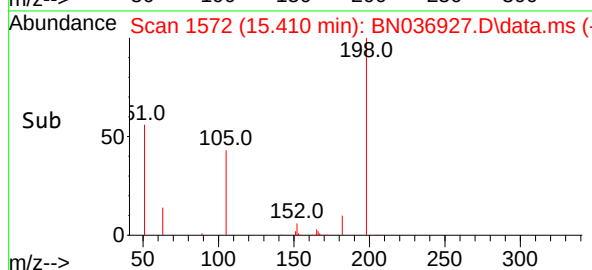
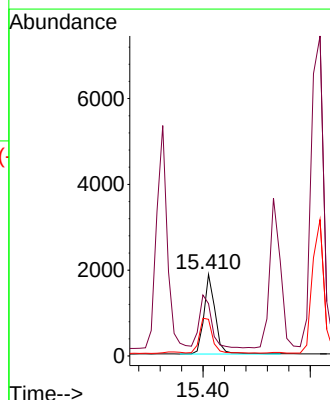
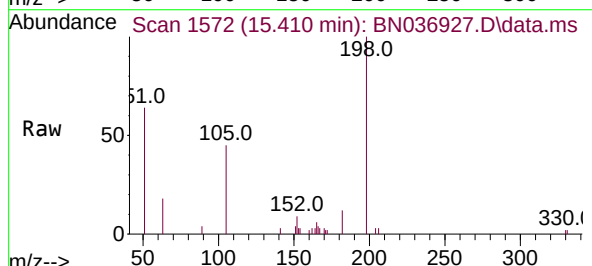
Tgt Ion:198 Resp: 2759

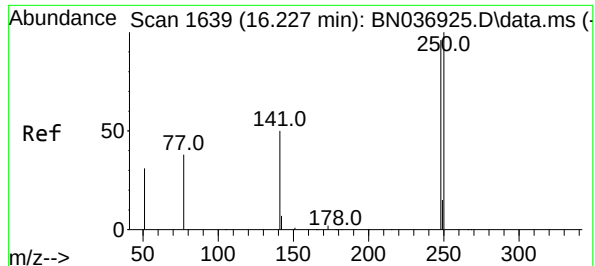
Ion Ratio Lower Upper

198 100

51 64.1 97.9 146.9#

105 44.9 50.0 75.0#

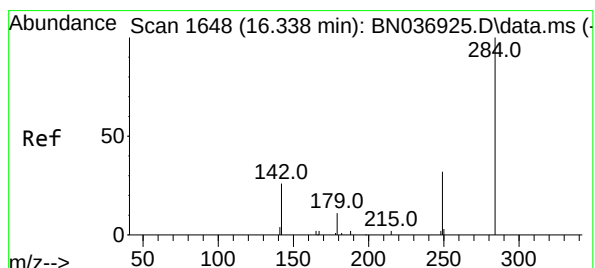
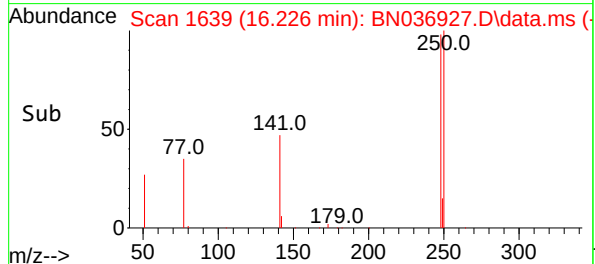
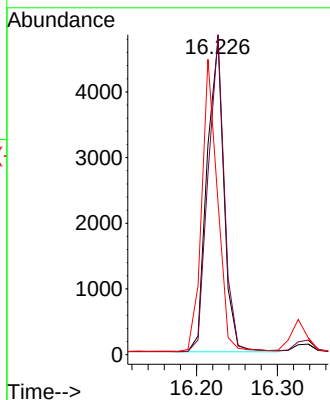
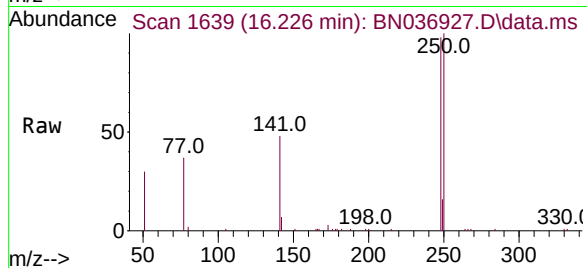




#21
4-Bromophenyl-phenylether
Concen: 1.695 ng
RT: 16.226 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

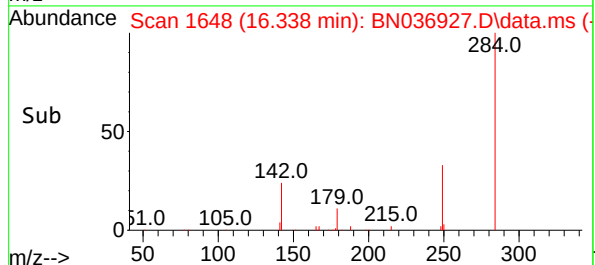
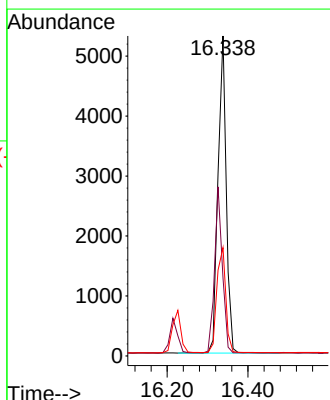
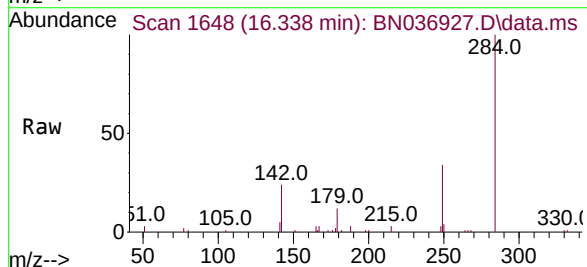
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

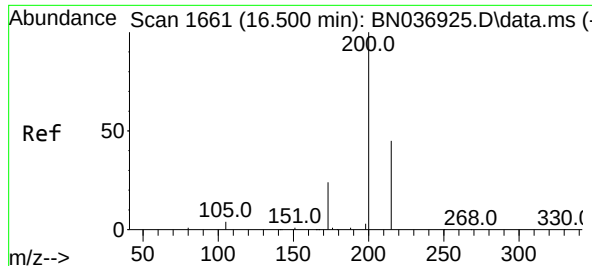
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.8	83.7	125.5
141	48.5	43.8	65.8



#22
Hexachlorobenzene
Concen: 1.650 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.5	40.0	60.0
249	36.5	28.2	42.2

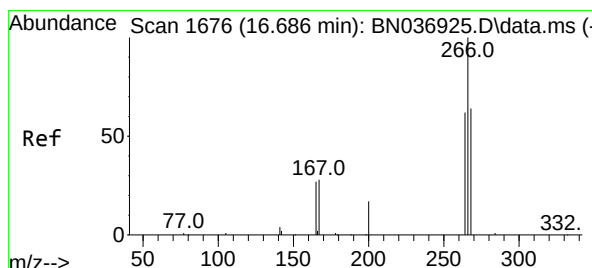
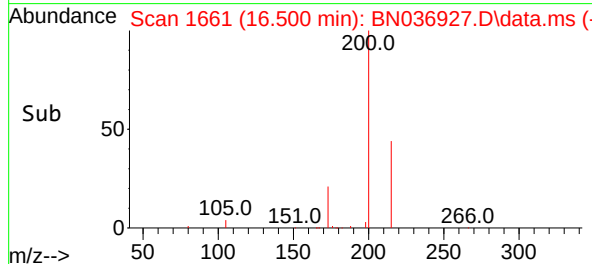
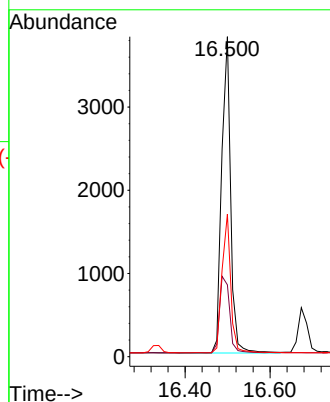
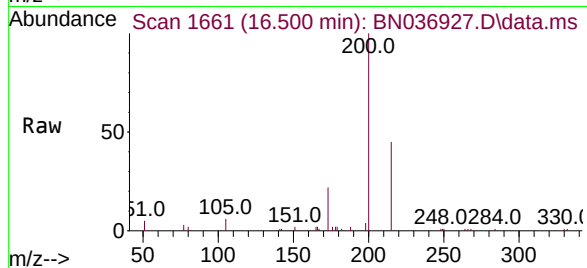




#23
Atrazine
Concen: 1.729 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

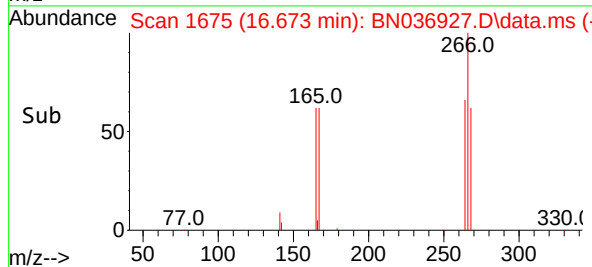
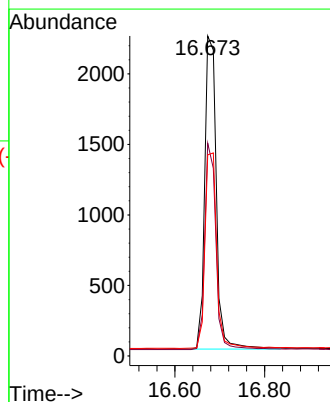
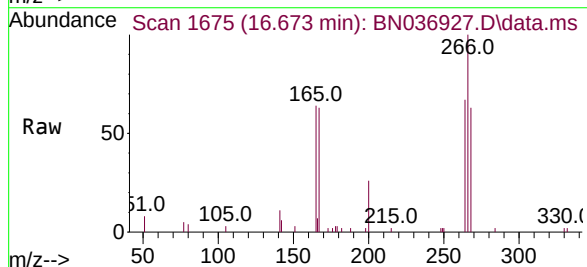
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

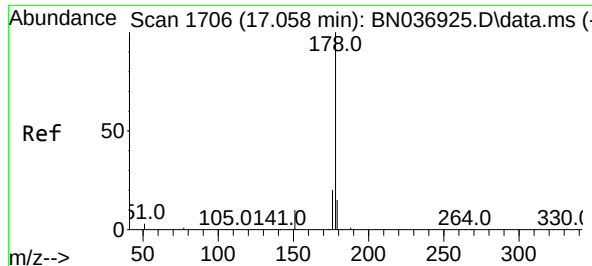
Tgt Ion	Ratio	Lower	Upper
200	100		
173	22.5	22.4	33.6
215	44.6	38.6	57.8



#24
Pentachlorophenol
Concen: 1.710 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.3	49.9	74.9
268	63.2	52.2	78.4

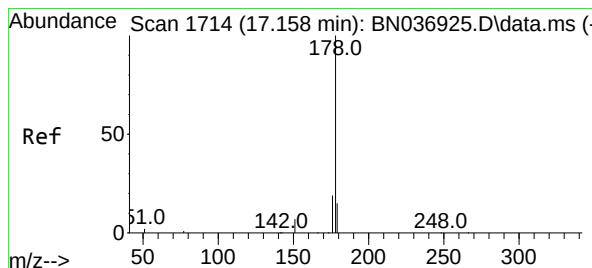
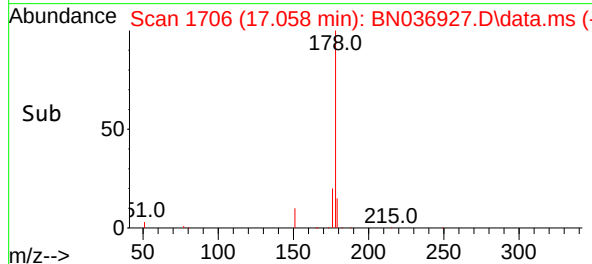
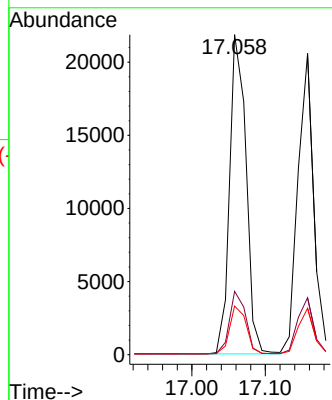
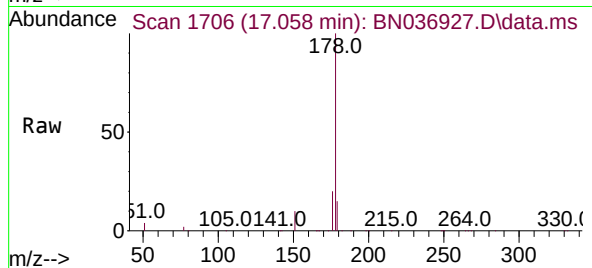




#25
Phenanthrene
Concen: 1.687 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

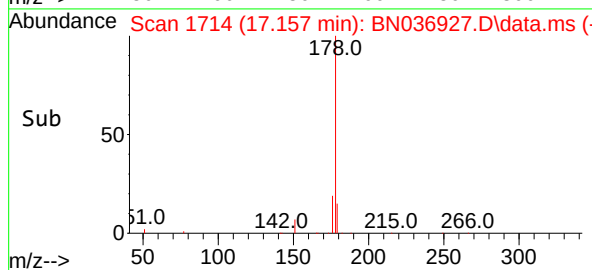
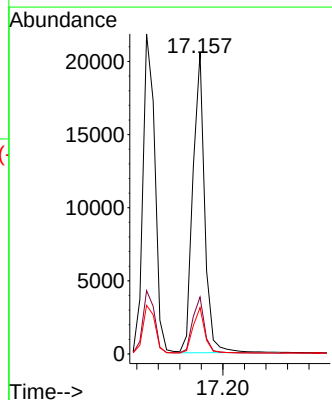
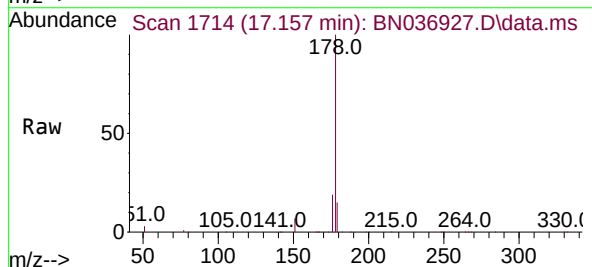
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

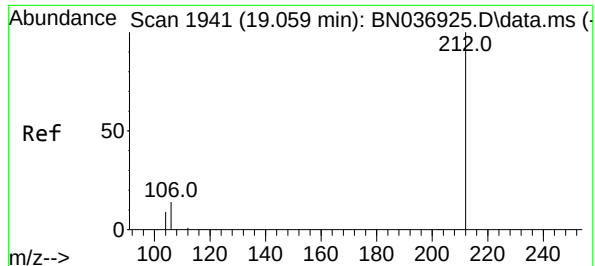
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.7	23.5
179	15.1	12.4	18.6



#26
Anthracene
Concen: 1.734 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.2	12.1	18.1





#27

Fluoranthene-d10

Concen: 1.699 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

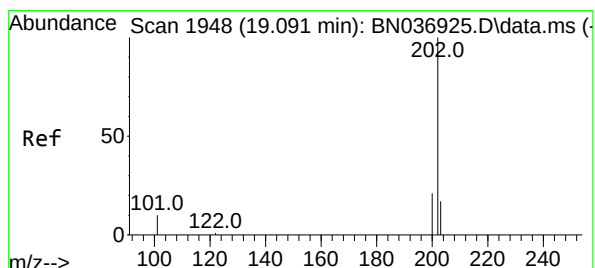
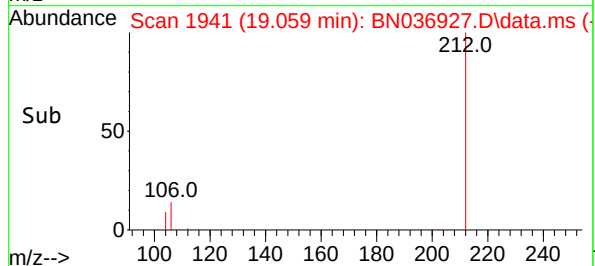
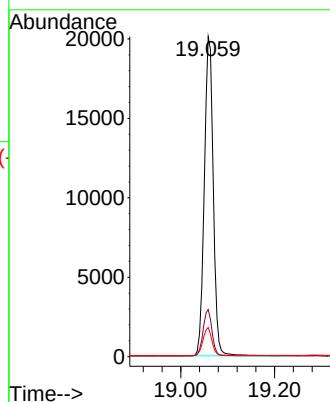
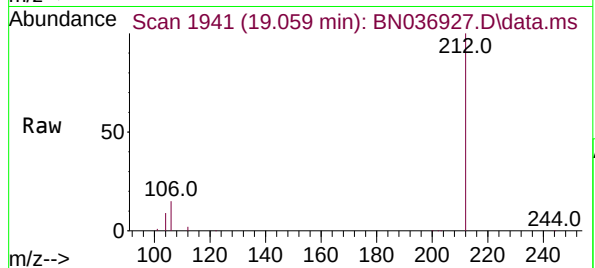
Tgt Ion:212 Resp: 26603

Ion Ratio Lower Upper

212 100

106 14.4 11.6 17.4

104 8.8 7.0 10.4



#28

Fluoranthene

Concen: 1.732 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

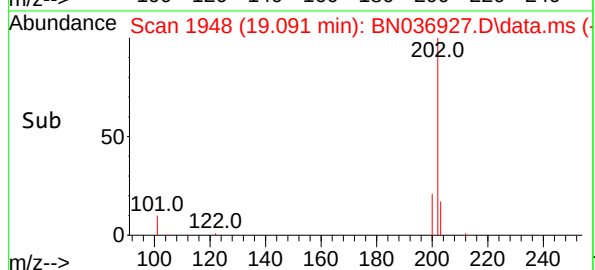
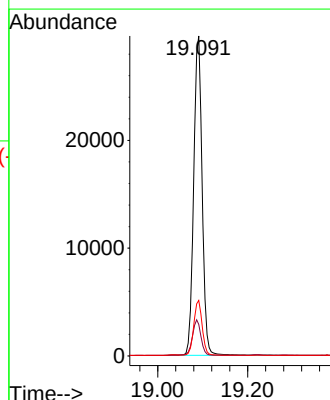
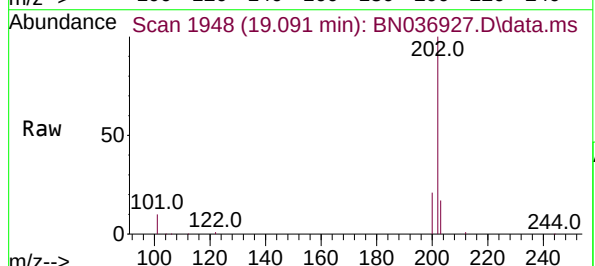
Tgt Ion:202 Resp: 38607

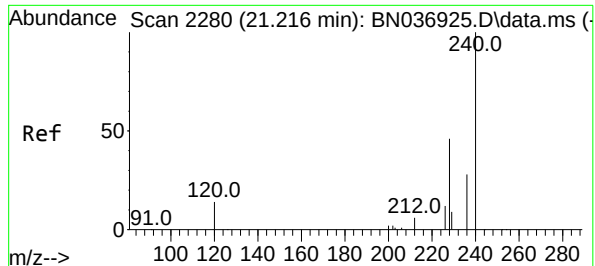
Ion Ratio Lower Upper

202 100

101 11.3 8.5 12.7

203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

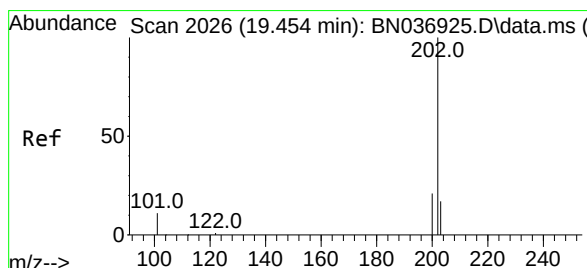
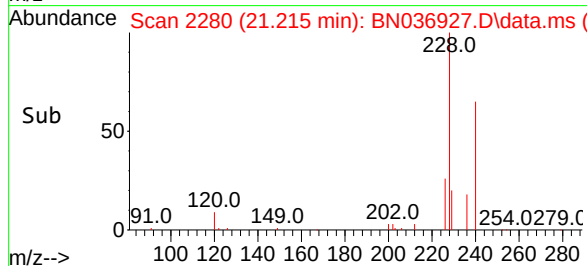
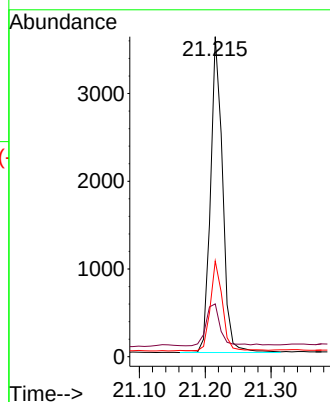
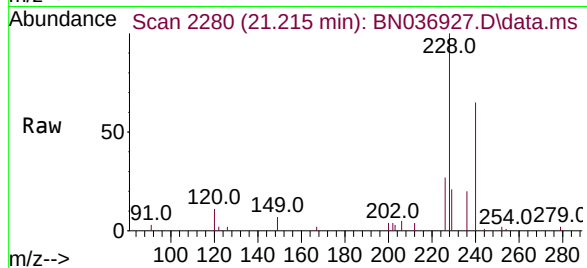
Tgt Ion:240 Resp: 4605

Ion Ratio Lower Upper

240 100

120 16.5 14.1 21.1

236 29.9 23.8 35.8



#30

Pyrene

Concen: 1.706 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

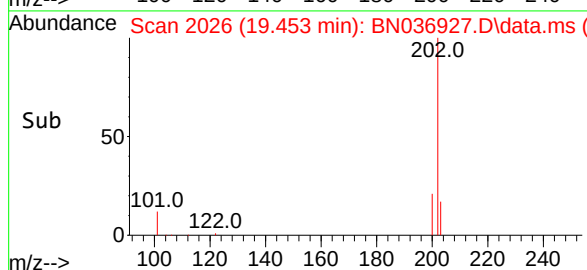
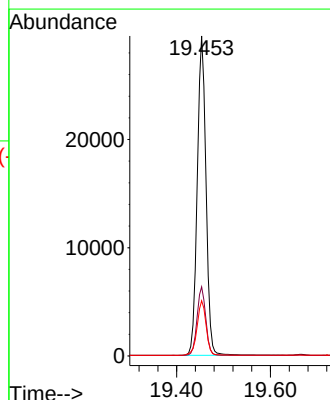
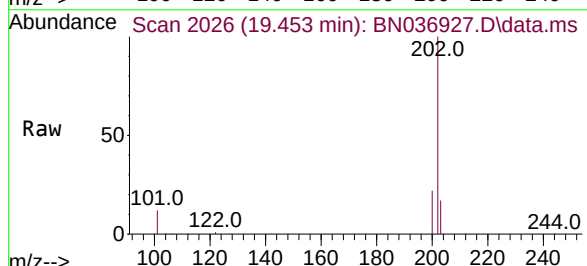
Tgt Ion:202 Resp: 38176

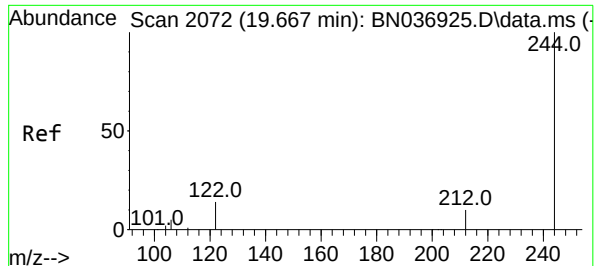
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.7 14.0 21.0

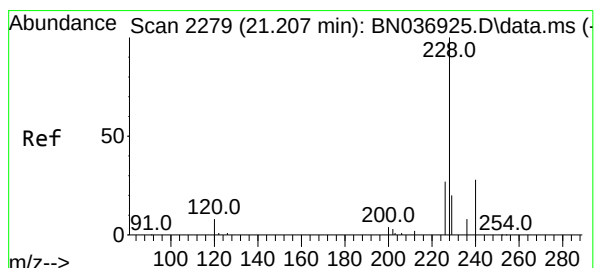
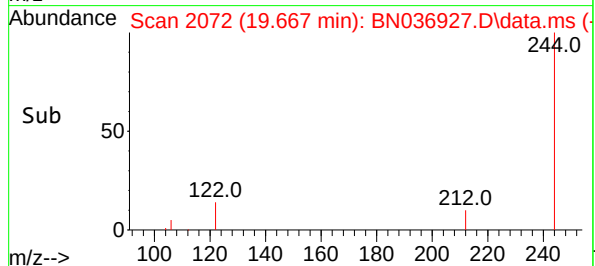
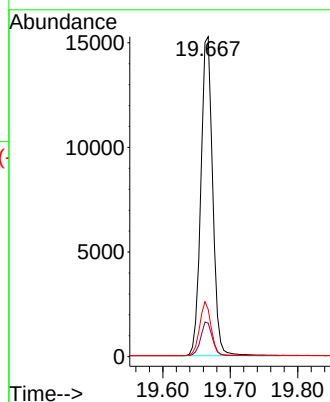
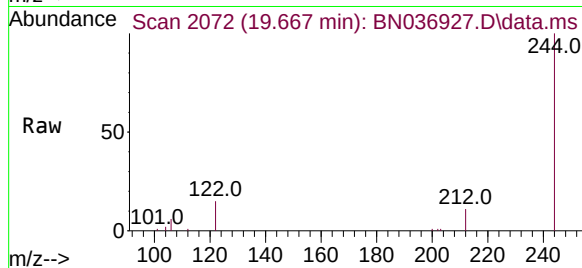




#31
Terphenyl-d14
Concen: 1.689 ng
RT: 19.667 min Scan# 2072
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

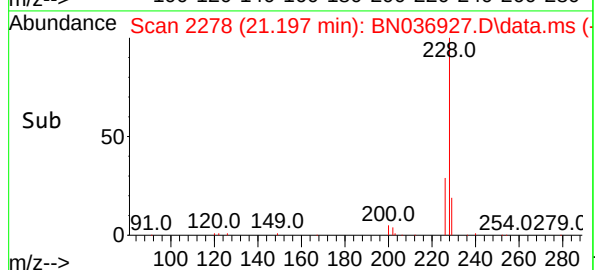
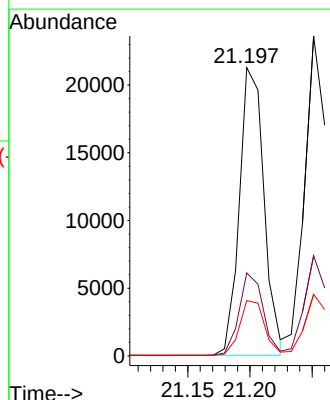
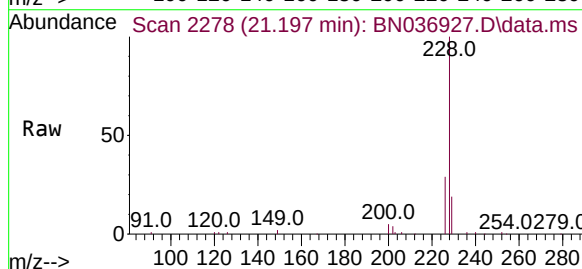
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

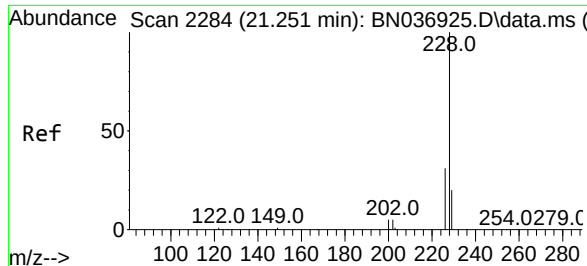
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.5	9.6	14.4
122	14.7	12.7	19.1



#32
Benzo(a)anthracene
Concen: 1.737 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.2	33.4
229	19.2	16.4	24.6





#33

Chrysene

Concen: 1.703 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

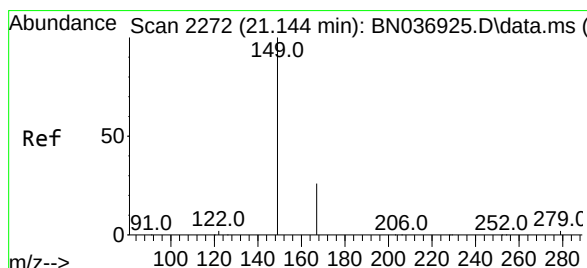
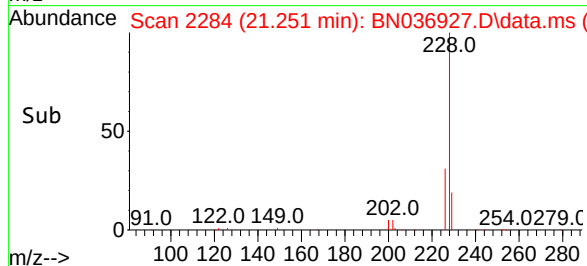
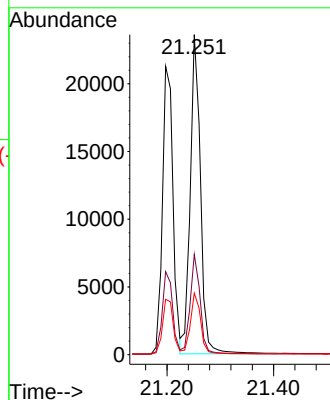
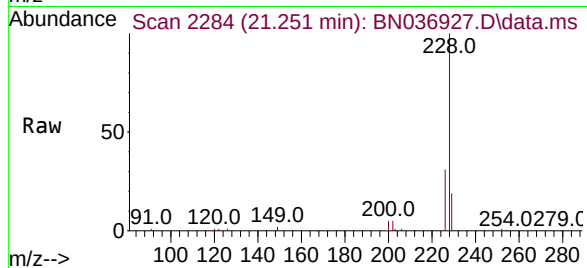
Tgt Ion:228 Resp: 31322

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 19.3 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.544 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

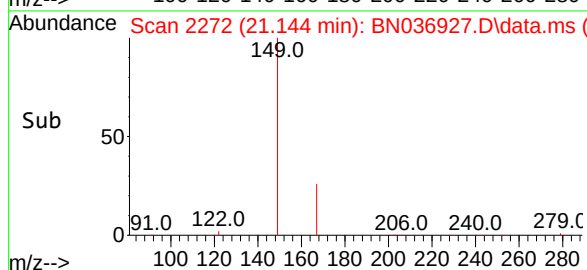
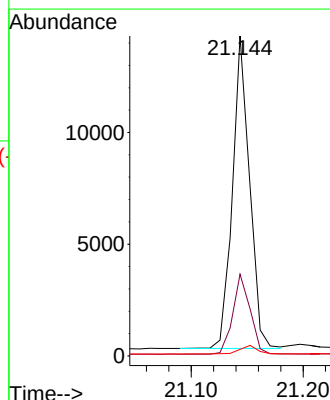
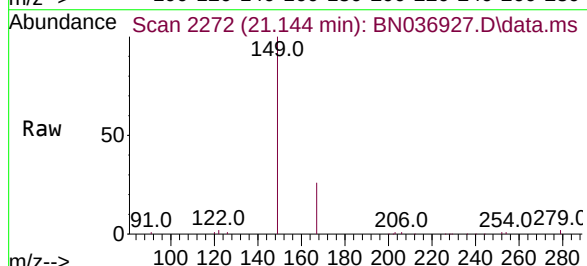
Tgt Ion:149 Resp: 14810

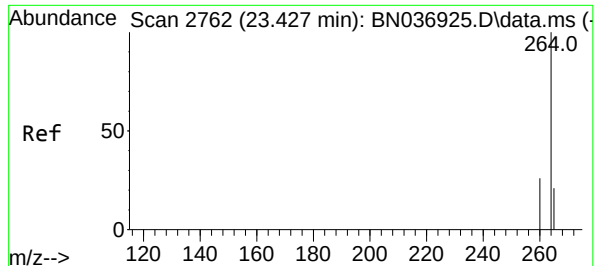
Ion Ratio Lower Upper

149 100

167 25.9 21.0 31.6

279 2.9 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

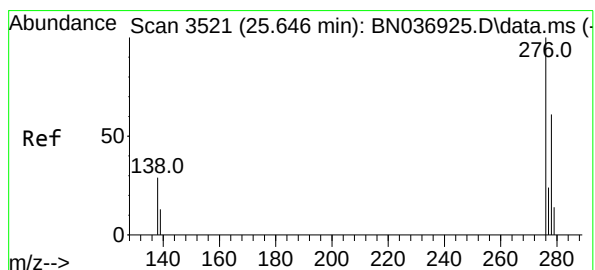
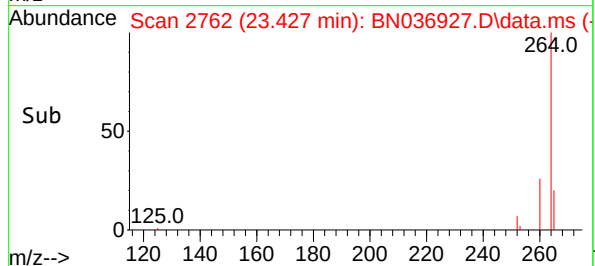
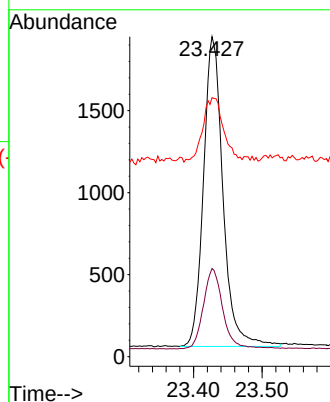
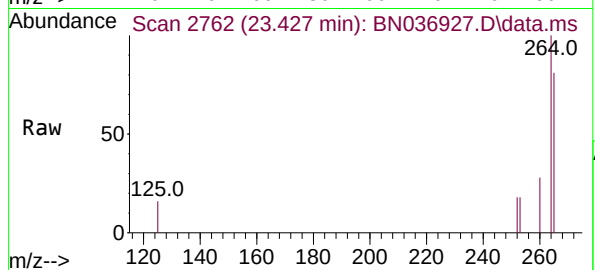
Tgt Ion:264 Resp: 3734

Ion Ratio Lower Upper

264 100

260 27.5 22.2 33.2

265 80.9 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.681 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

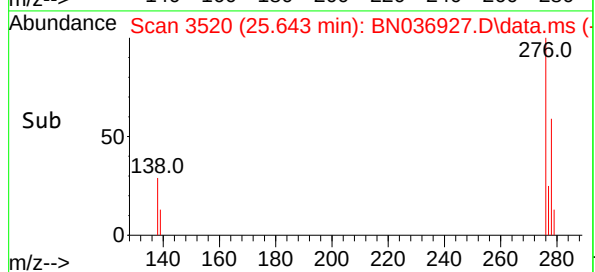
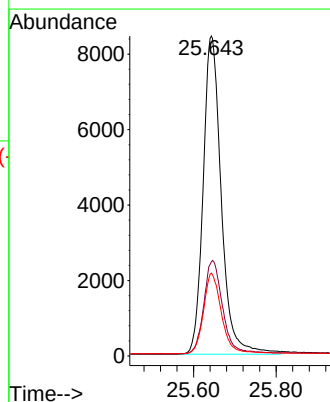
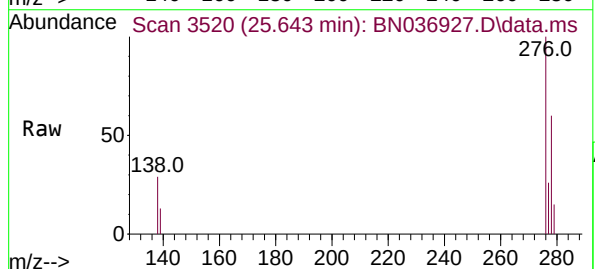
Tgt Ion:276 Resp: 25695

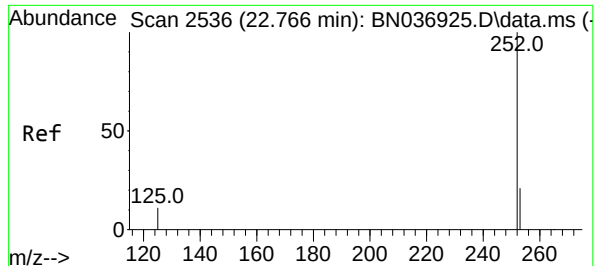
Ion Ratio Lower Upper

276 100

138 30.1 23.0 34.6

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 1.733 ng

RT: 22.763 min Scan# 2536

Delta R.T. -0.003 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

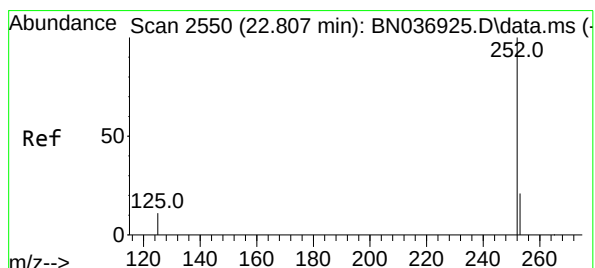
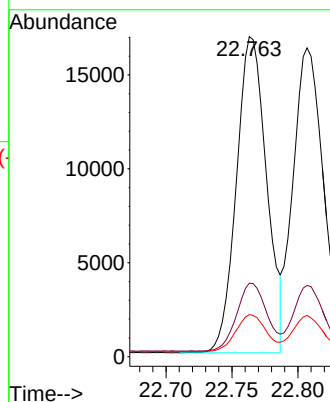
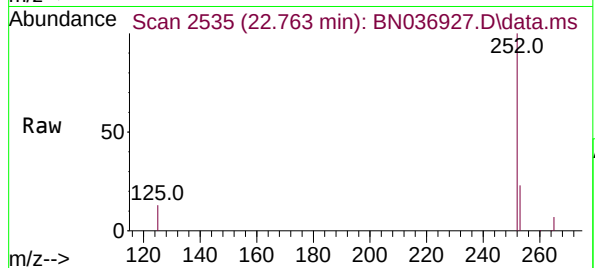
Tgt Ion:252 Resp: 26826

Ion Ratio Lower Upper

252 100

253 23.0 22.1 33.1

125 13.1 14.2 21.2#



#38

Benzo(k)fluoranthene

Concen: 1.730 ng

RT: 22.807 min Scan# 2550

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

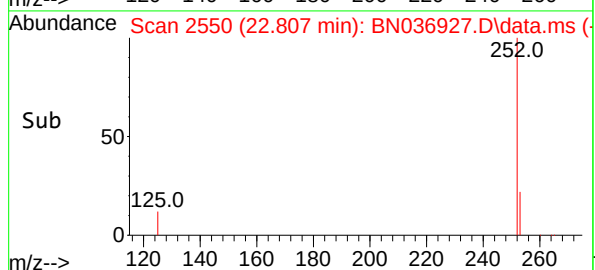
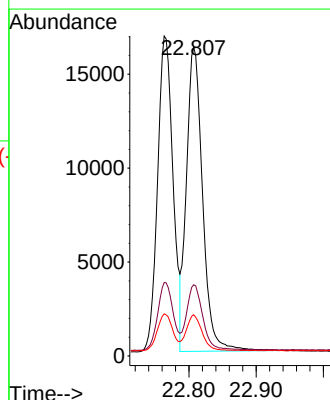
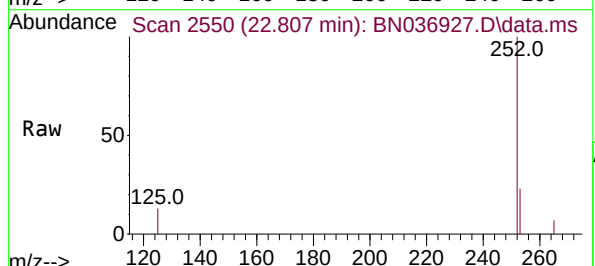
Tgt Ion:252 Resp: 27065

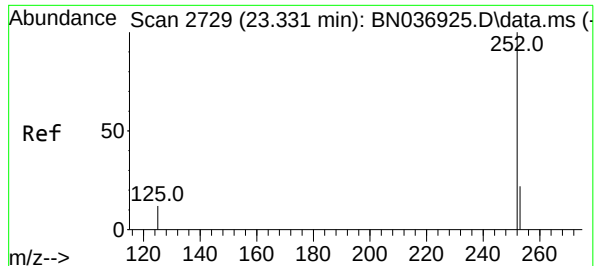
Ion Ratio Lower Upper

252 100

253 23.1 22.8 34.2

125 13.4 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 1.712 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

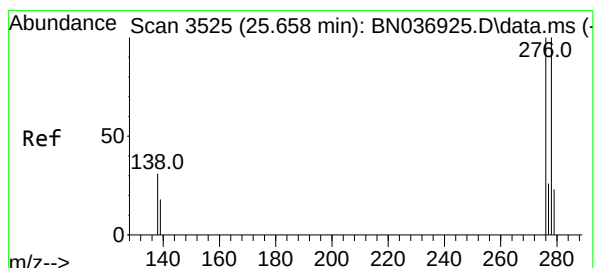
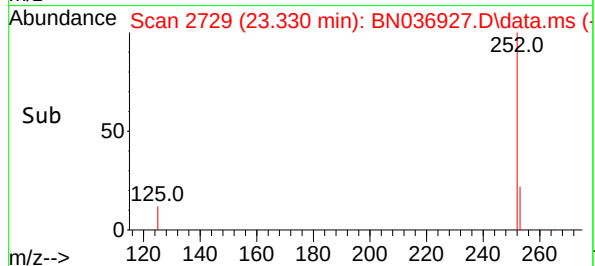
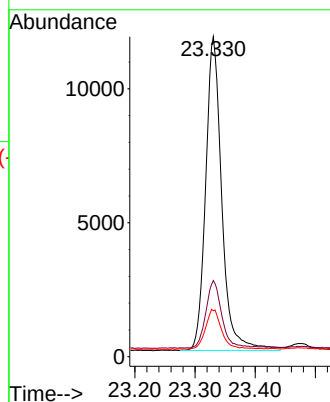
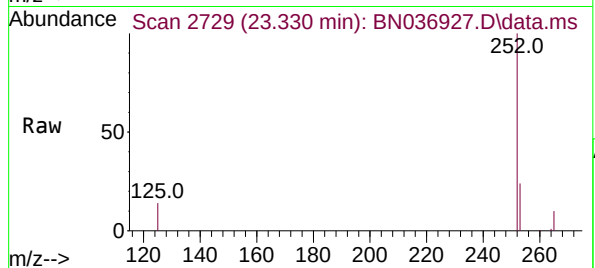
Tgt Ion:252 Resp: 21844

Ion Ratio Lower Upper

252 100

253 23.8 25.9 38.9#

125 14.4 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 1.685 ng

RT: 25.658 min Scan# 3525

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

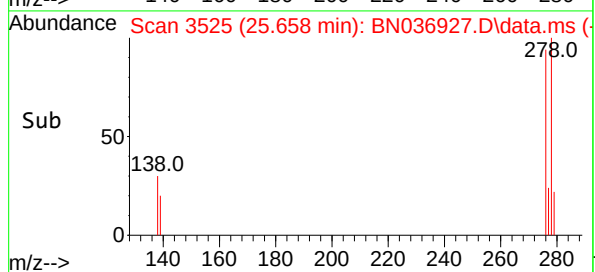
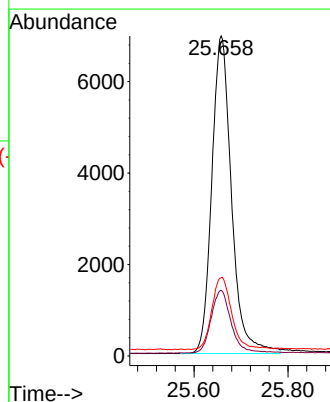
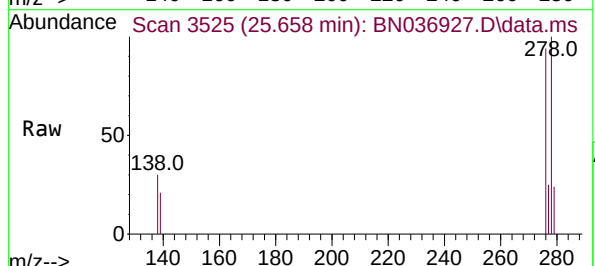
Tgt Ion:278 Resp: 20274

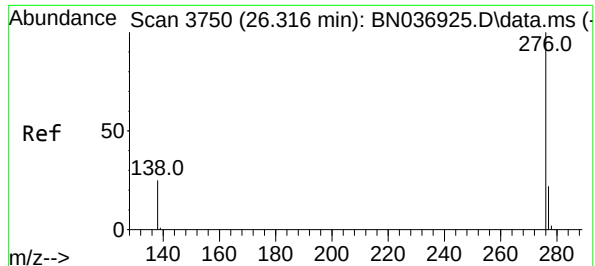
Ion Ratio Lower Upper

278 100

139 20.5 17.4 26.2

279 24.5 24.9 37.3#





#41

Benzo(g,h,i)perylene

Concen: 1.659 ng

RT: 26.324 min Scan# 31

Delta R.T. 0.009 min

Lab File: BN036927.D

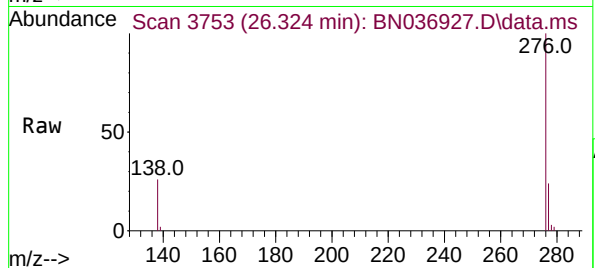
Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



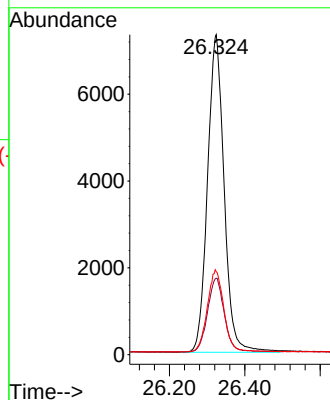
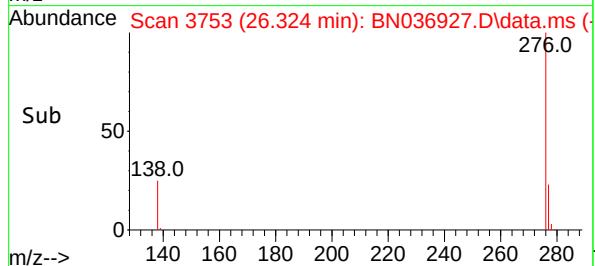
Tgt Ion:276 Resp: 22323

Ion Ratio Lower Upper

276 100

277 23.9 20.2 30.2

138 26.0 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036928.D
 Acq On : 28 Apr 2025 14:36
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Apr 28 15:14:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

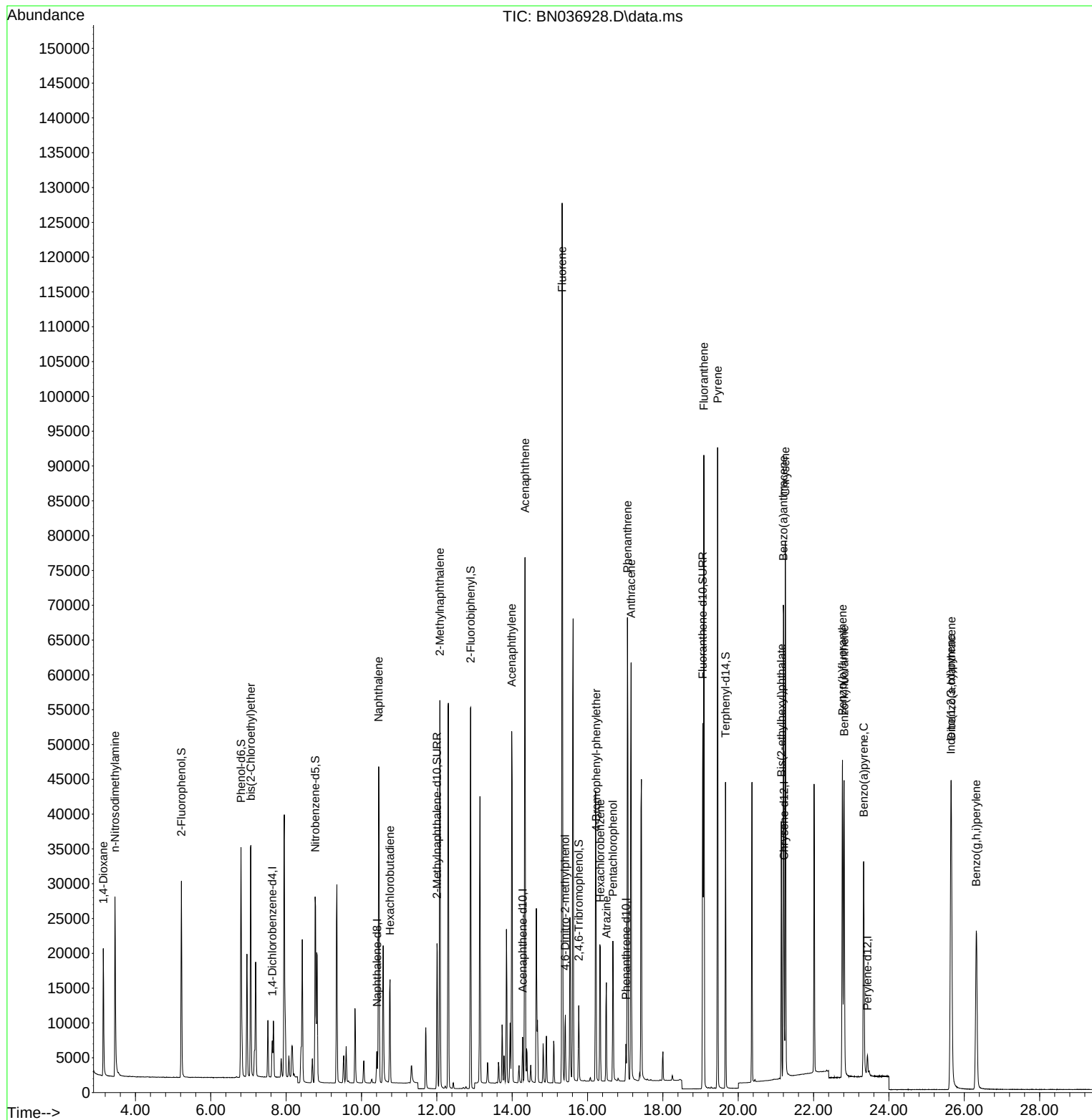
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2400	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5910	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3394	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6361	0.400	ng	0.00
29) Chrysene-d12	21.216	240	4896	0.400	ng	0.00
35) Perylene-d12	23.430	264	3763	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	18856	3.045	ng	0.00
5) Phenol-d6	6.802	99	24093	3.194	ng	0.00
8) Nitrobenzene-d5	8.771	82	20418	3.326	ng	-0.01
11) 2-Methylnaphthalene-d10	12.006	152	27198	3.319	ng	0.00
14) 2,4,6-Tribromophenol	15.768	330	4998	3.360	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	53914	3.285	ng	0.00
27) Fluoranthene-d10	19.059	212	53576	3.290	ng	0.00
31) Terphenyl-d14	19.663	244	37287	3.200	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.148	88	9383	3.096	ng	96
3) n-Nitrosodimethylamine	3.458	42	18278	3.122	ng	# 99
6) bis(2-Chloroethyl)ether	7.062	93	22311	3.183	ng	99
9) Naphthalene	10.458	128	55337	3.217	ng	98
10) Hexachlorobutadiene	10.757	225	11705	3.121	ng	# 98
12) 2-Methylnaphthalene	12.082	142	36995	3.361	ng	98
16) Acenaphthylene	13.989	152	55247	3.362	ng	100
17) Acenaphthene	14.342	154	35171	3.236	ng	98
18) Fluorene	15.325	166	46714	3.301	ng	99
20) 4,6-Dinitro-2-methylph...	15.411	198	6093	3.823	ng	# 51
21) 4-Bromophenyl-phenylether	16.227	248	13834	3.266	ng	# 94
22) Hexachlorobenzene	16.338	284	14891	3.181	ng	99
23) Atrazine	16.500	200	11521	3.449	ng	# 91
24) Pentachlorophenol	16.674	266	8528	3.511	ng	99
25) Phenanthrene	17.058	178	68482	3.273	ng	99
26) Anthracene	17.158	178	64181	3.430	ng	100
28) Fluoranthene	19.087	202	77836	3.358	ng	99
30) Pyrene	19.454	202	77117	3.241	ng	100
32) Benzo(a)anthracene	21.198	228	59092	3.310	ng	97
33) Chrysene	21.251	228	61582	3.149	ng	98
34) Bis(2-ethylhexyl)phtha...	21.144	149	30625	3.002	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.643	276	51906	3.369	ng	98
37) Benzo(b)fluoranthene	22.766	252	52921	3.393	ng	# 89
38) Benzo(k)fluoranthene	22.810	252	53706	3.406	ng	# 88
39) Benzo(a)pyrene	23.331	252	43554	3.387	ng	# 83
40) Dibenzo(a,h)anthracene	25.655	278	41500	3.423	ng	# 91
41) Benzo(g,h,i)perylene	26.319	276	44250	3.263	ng	98

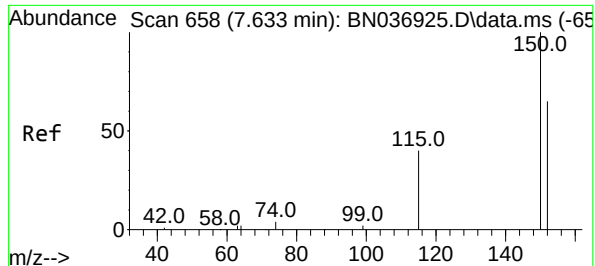
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036928.D
Acq On : 28 Apr 2025 14:36
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Apr 28 15:14:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

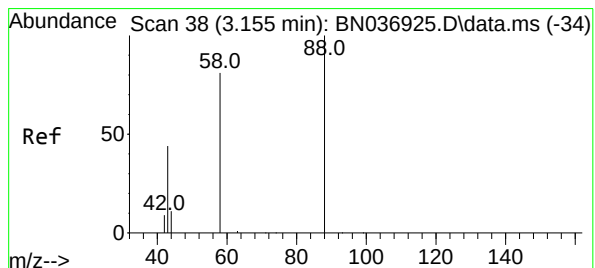
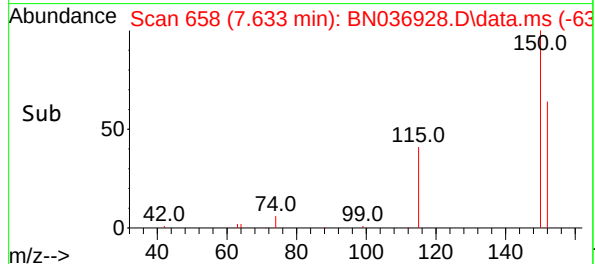
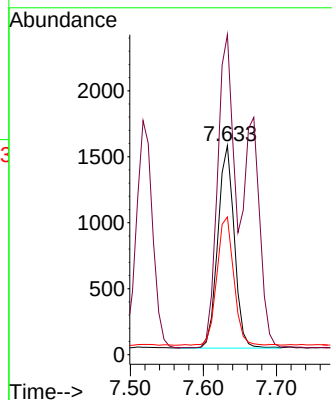
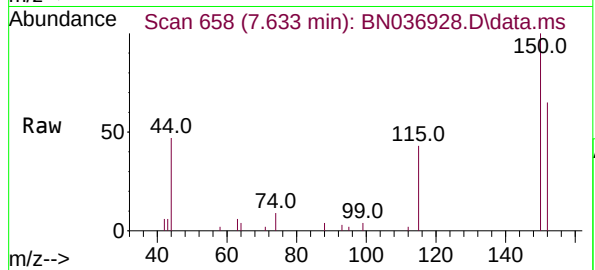




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

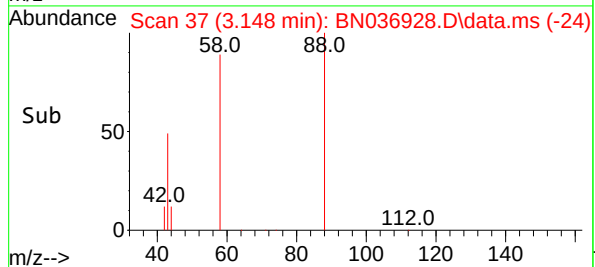
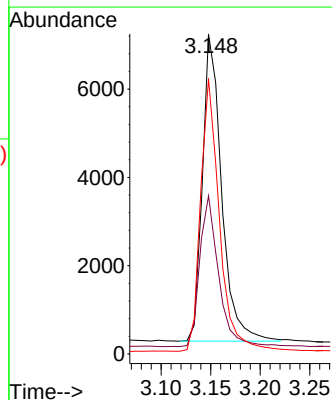
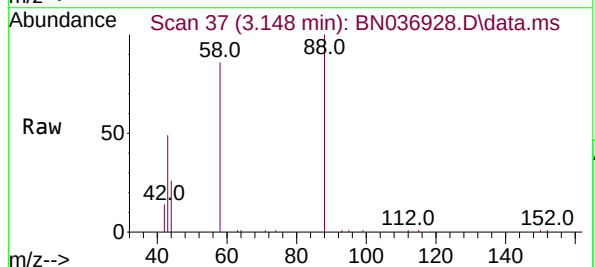
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

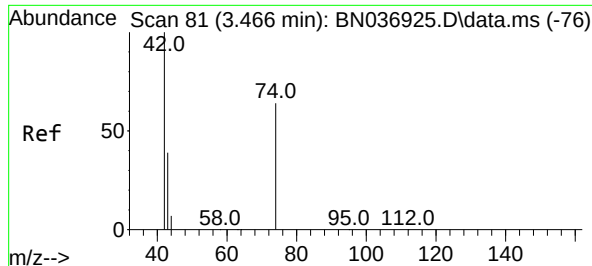
Tgt Ion:152 Resp: 2400
Ion Ratio Lower Upper
152 100
150 153.0 121.1 181.7
115 65.9 51.8 77.6



#2
1,4-Dioxane
Concen: 3.096 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion: 88 Resp: 9383
Ion Ratio Lower Upper
88 100
43 48.3 37.9 56.9
58 87.1 65.8 98.6

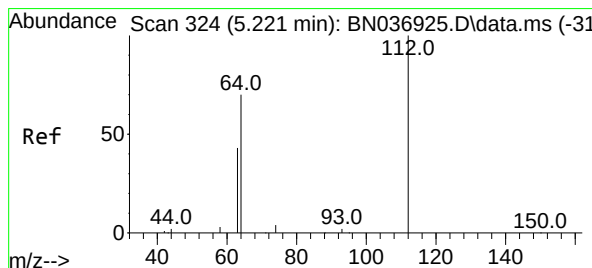
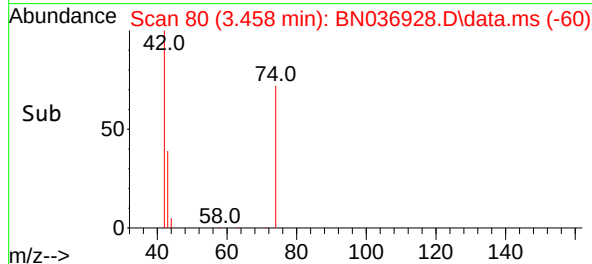
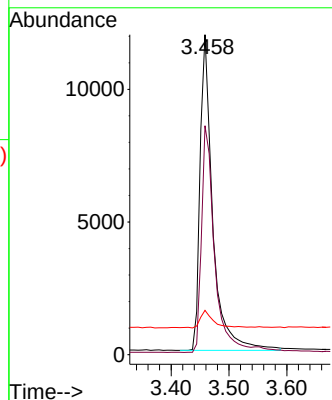
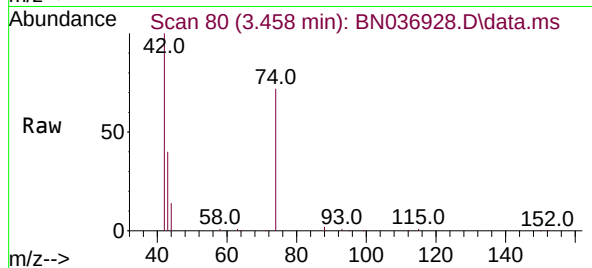




#3
n-Nitrosodimethylamine
Concen: 3.122 ng
RT: 3.458 min Scan# 80
Delta R.T. -0.007 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

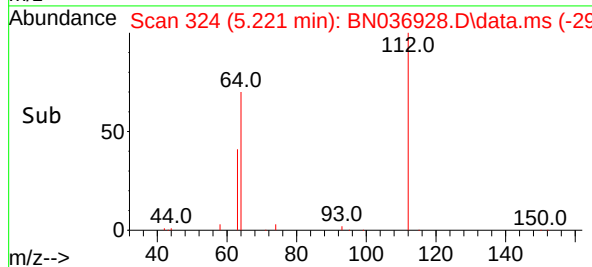
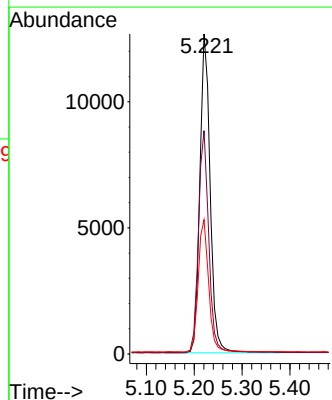
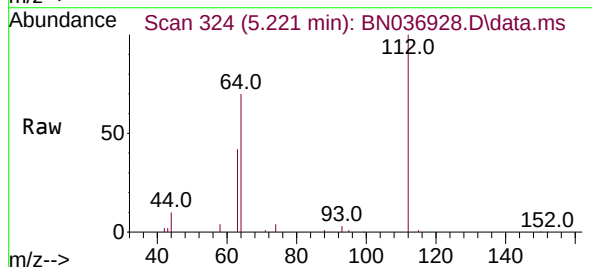
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

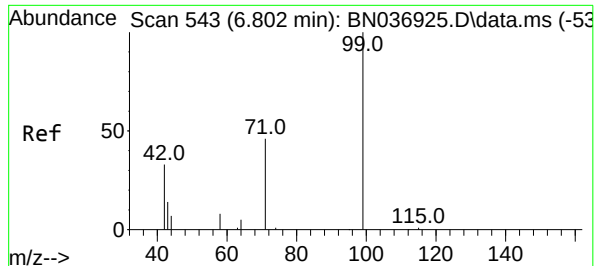
Tgt Ion: 42 Resp: 18278
Ion Ratio Lower Upper
42 100
74 74.8 59.9 89.9
44 5.4 7.5 11.3#



#4
2-Fluorophenol
Concen: 3.045 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion: 112 Resp: 18856
Ion Ratio Lower Upper
112 100
64 69.6 55.7 83.5
63 42.0 33.9 50.9

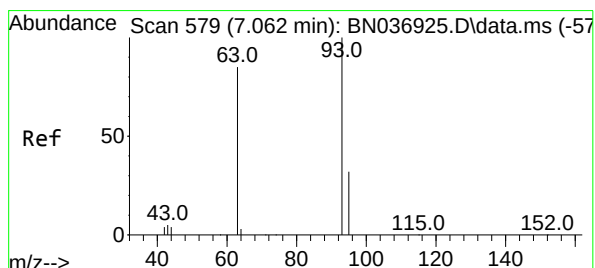
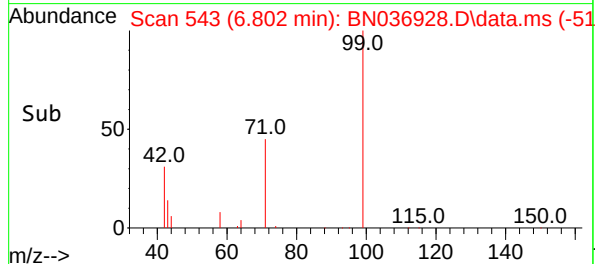
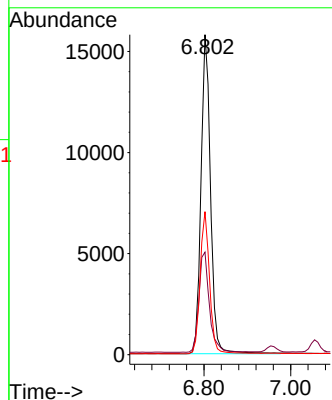
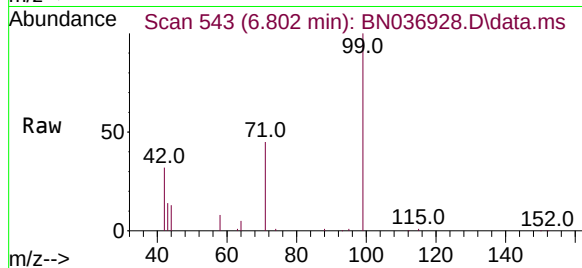




#5
Phenol-d6
Concen: 3.194 ng
RT: 6.802 min Scan# 543
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

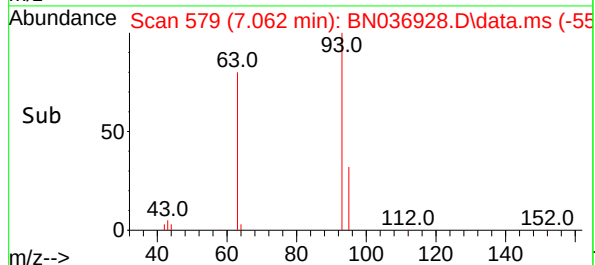
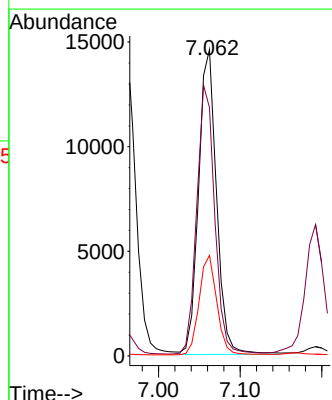
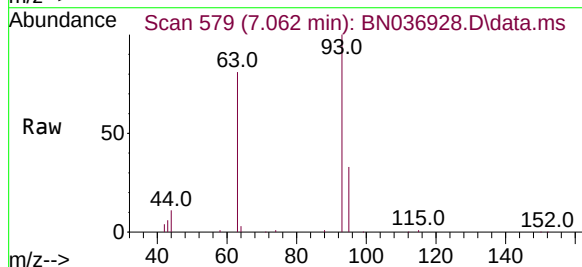
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

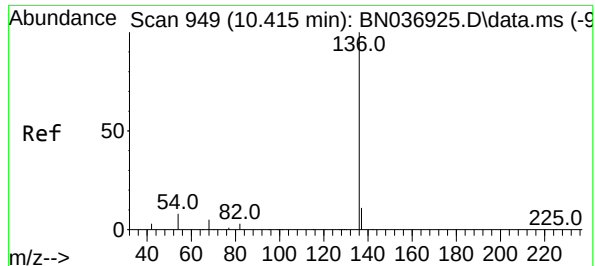
Tgt Ion	Ratio	Lower	Upper
99	100		
42	35.0	29.6	44.4
71	44.3	36.0	54.0



#6
bis(2-Chloroethyl)ether
Concen: 3.183 ng
RT: 7.062 min Scan# 579
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion	Ratio	Lower	Upper
93	100		
63	87.8	69.0	103.6
95	32.2	25.4	38.0

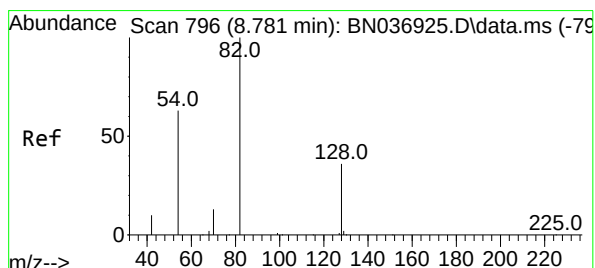
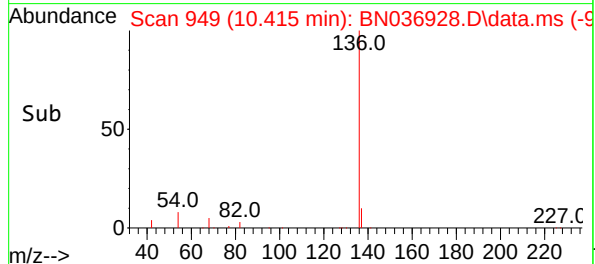
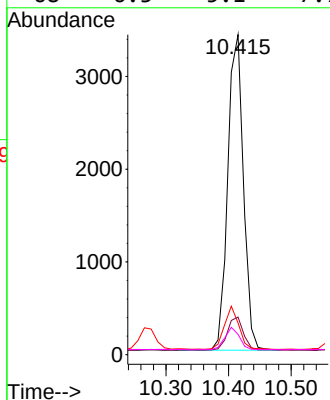
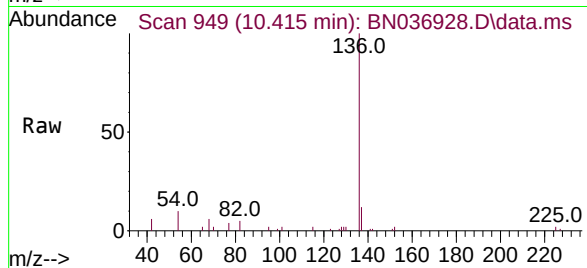




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

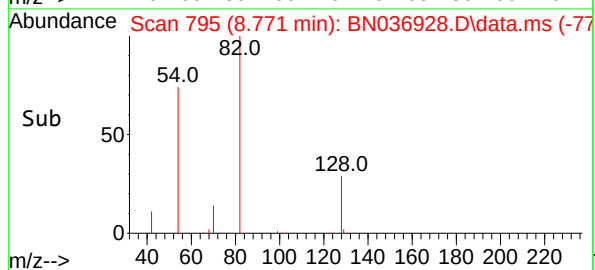
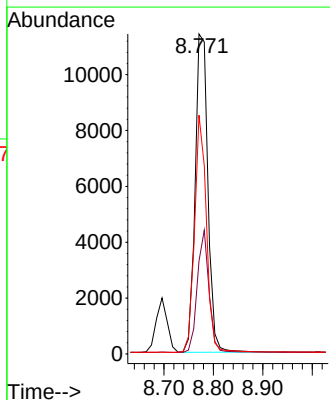
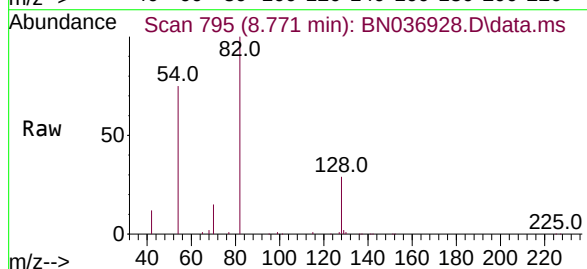
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

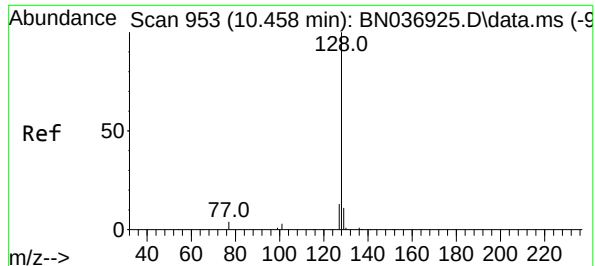
Tgt Ion:	136	Resp:	5910
Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.7	14.5
54	9.9	8.0	12.0
68	6.3	5.1	7.7



#8
Nitrobenzene-d5
Concen: 3.326 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:	82	Resp:	20418
Ion	Ratio	Lower	Upper
82	100		
128	29.1	30.7	46.1#
54	74.6	52.1	78.1

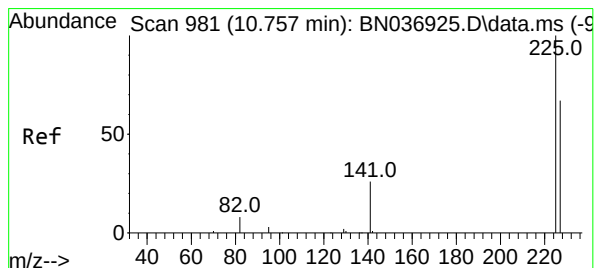
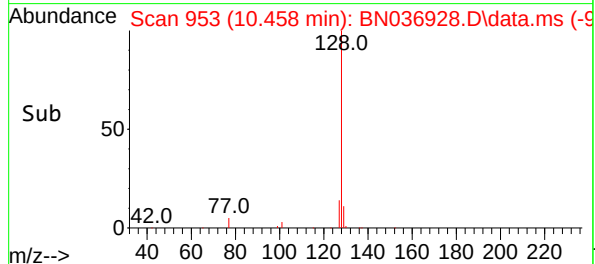
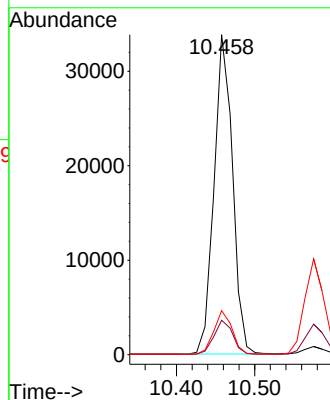
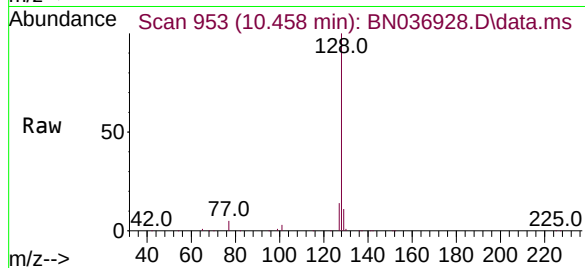




#9
Naphthalene
Concen: 3.217 ng
RT: 10.458 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

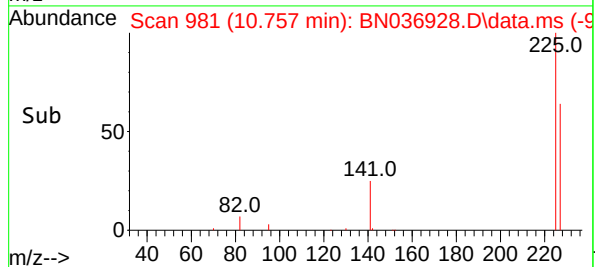
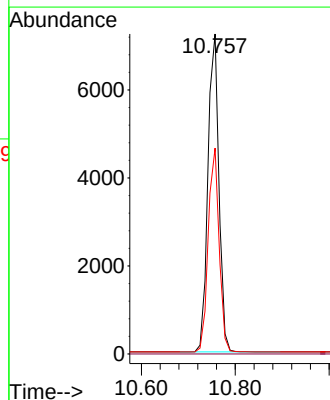
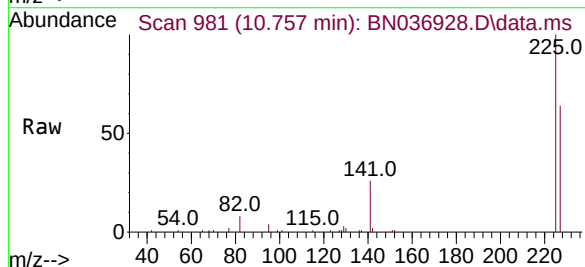
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

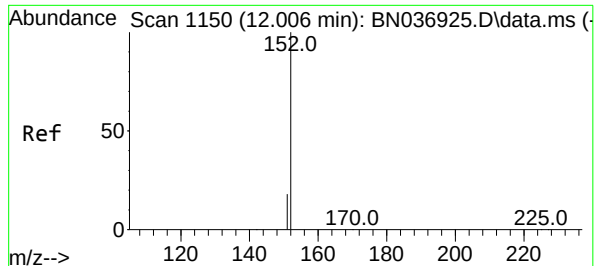
Tgt Ion	128	129	127
Resp:	55337		
Ion Ratio	100	10.8	13.8
Lower		9.8	11.4
Upper		14.6	17.2



#10
Hexachlorobutadiene
Concen: 3.121 ng
RT: 10.757 min Scan# 981
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion	225	223	227
Resp:	11705		
Ion Ratio	100	0.0	63.5
Lower		0.0	52.2
Upper		0.0	78.4

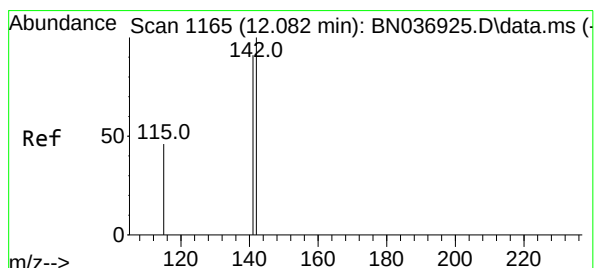
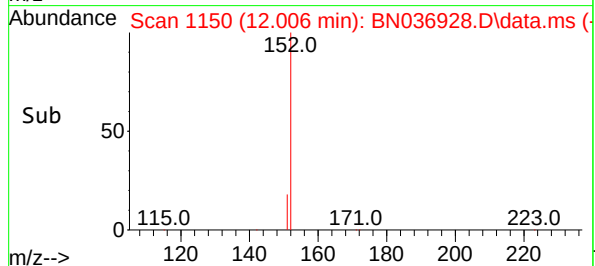
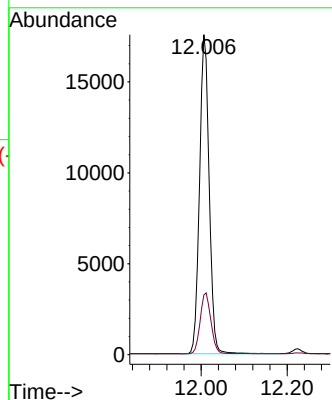
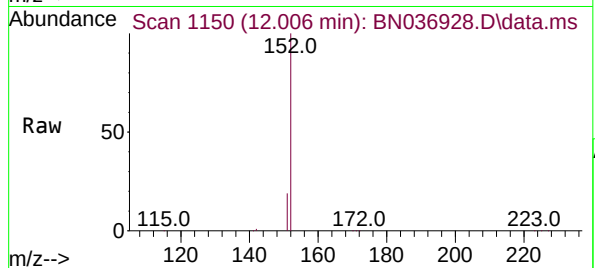




#11
2-Methylnaphthalene-d10
Concen: 3.319 ng
RT: 12.006 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

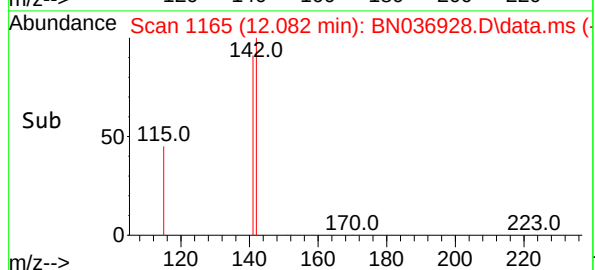
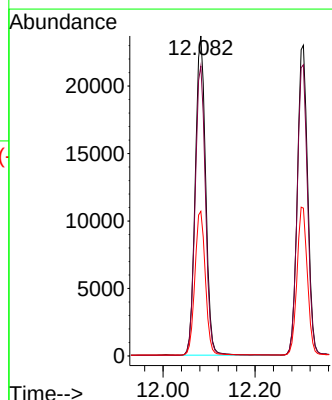
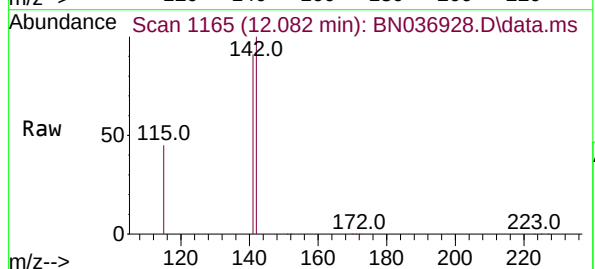
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

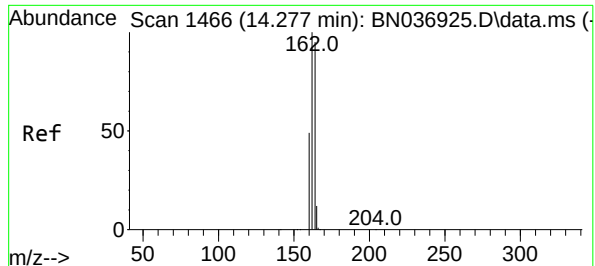
Tgt Ion:152 Resp: 27198
Ion Ratio Lower Upper
152 100
151 21.3 16.9 25.3



#12
2-Methylnaphthalene
Concen: 3.361 ng
RT: 12.082 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:142 Resp: 36995
Ion Ratio Lower Upper
142 100
141 90.6 72.8 109.2
115 45.2 38.2 57.4

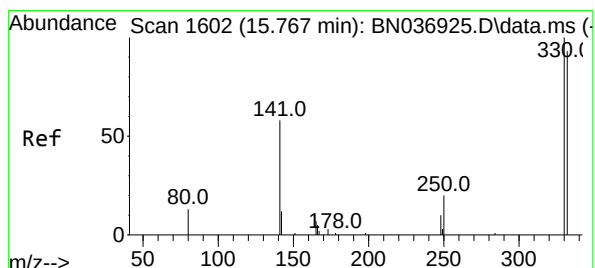
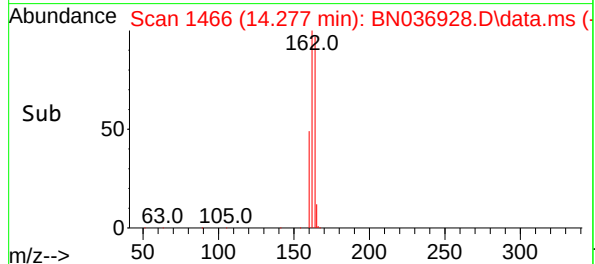
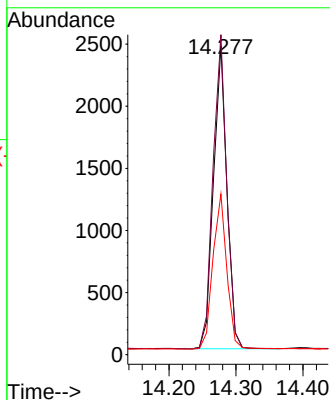
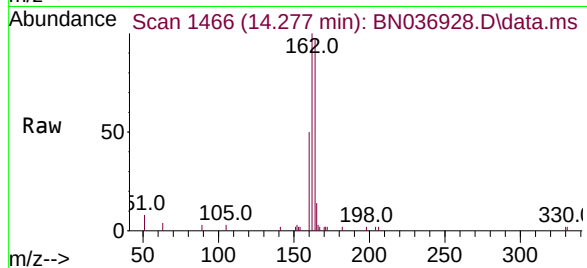




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

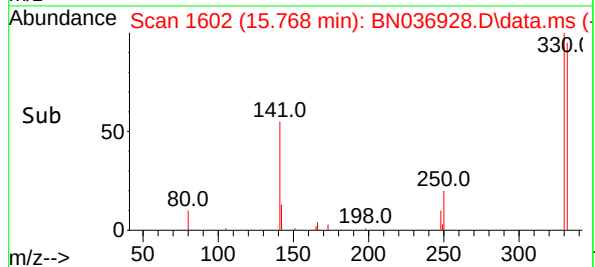
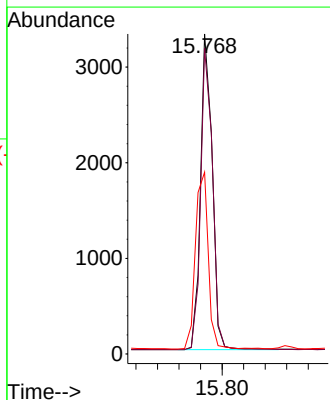
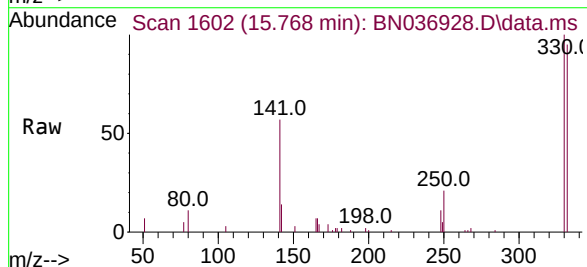
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

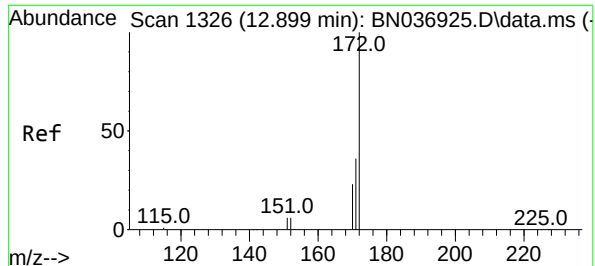
Tgt Ion	164	Resp	3394
Ion Ratio	Lower	Upper	
164	100		
162	103.5	83.8	125.8
160	51.9	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 3.360 ng
RT: 15.768 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion	330	Resp	4998
Ion Ratio	Lower	Upper	
330	100		
332	96.6	76.3	114.5
141	61.6	45.4	68.2





#15

2-Fluorobiphenyl

Concen: 3.285 ng

RT: 12.899 min Scan# 1439

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

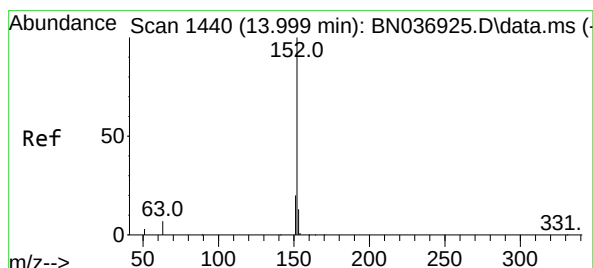
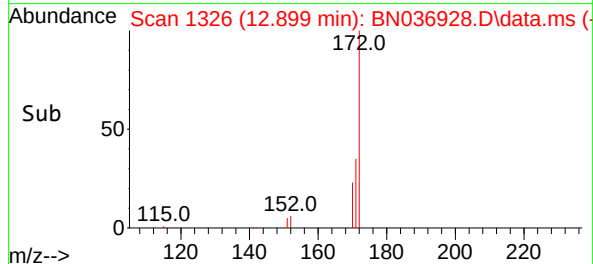
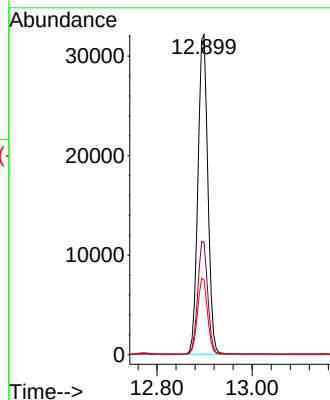
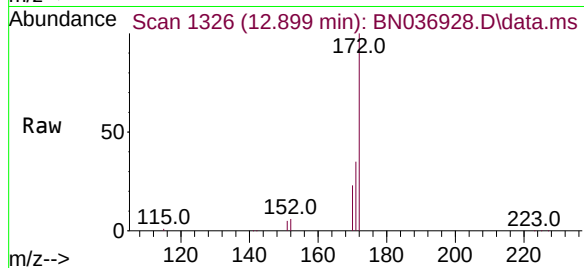
Tgt Ion:172 Resp: 53914

Ion Ratio Lower Upper

172 100

171 35.2 29.4 44.0

170 23.4 19.4 29.0



#16

Acenaphthylene

Concen: 3.362 ng

RT: 13.989 min Scan# 1439

Delta R.T. -0.011 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

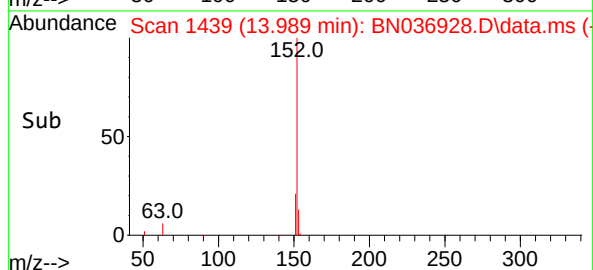
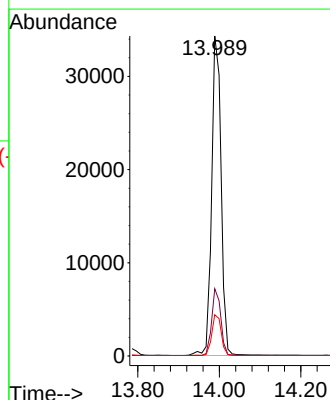
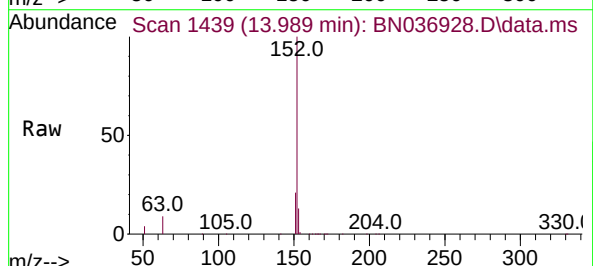
Tgt Ion:152 Resp: 55247

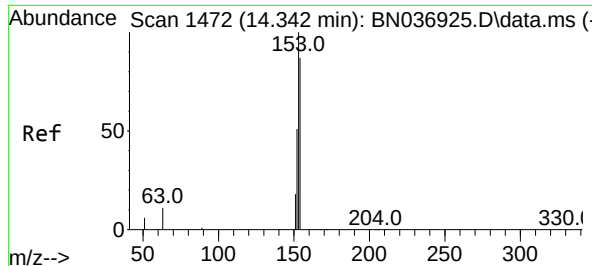
Ion Ratio Lower Upper

152 100

151 20.1 16.0 24.0

153 12.8 10.2 15.2

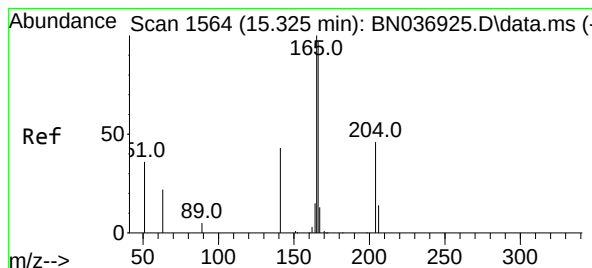
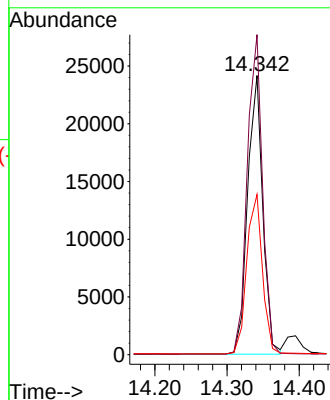
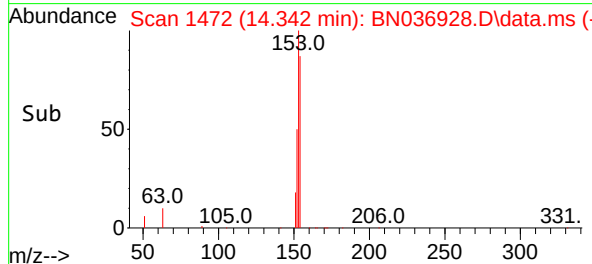
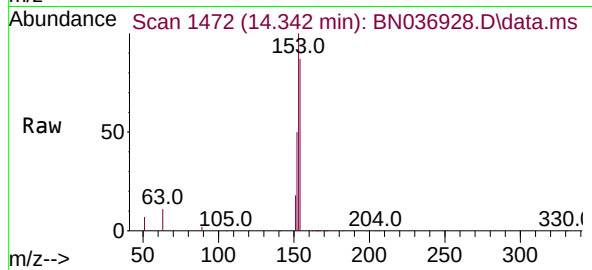




#17
Acenaphthene
Concen: 3.236 ng
RT: 14.342 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

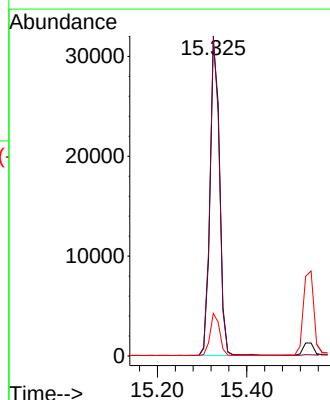
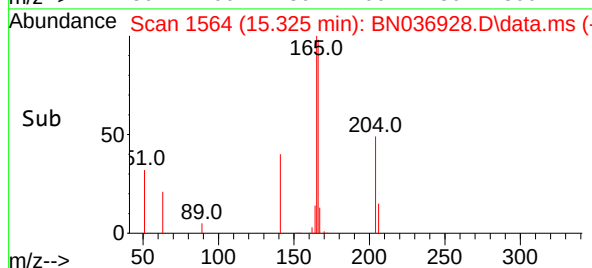
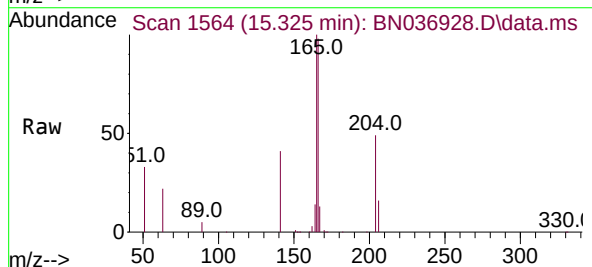
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

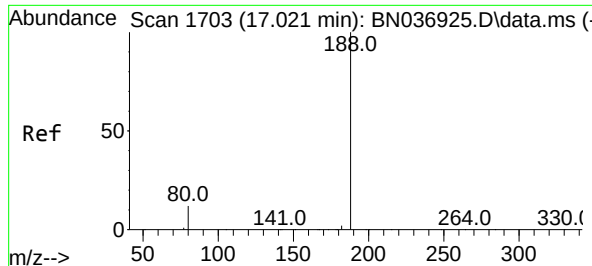
Tgt Ion:154 Resp: 35171
Ion Ratio Lower Upper
154 100
153 115.7 93.4 140.2
152 59.7 49.5 74.3



#18
Fluorene
Concen: 3.301 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:166 Resp: 46714
Ion Ratio Lower Upper
166 100
165 99.7 80.8 121.2
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

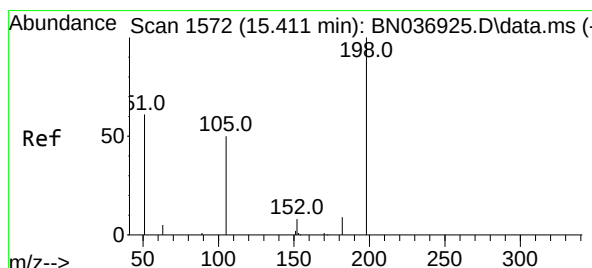
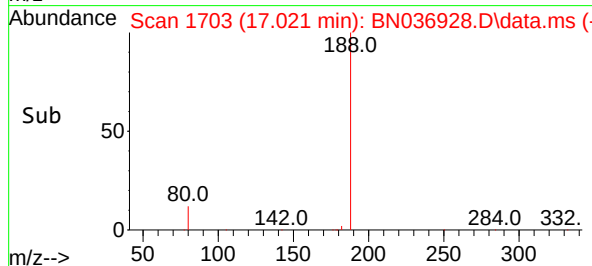
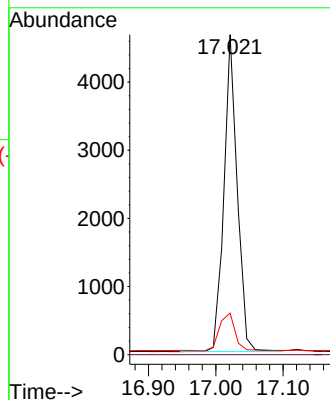
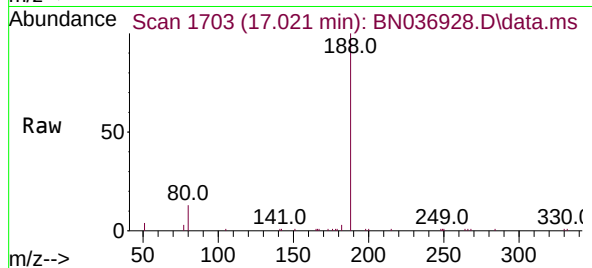
Tgt Ion:188 Resp: 6361

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.0 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 3.823 ng

RT: 15.411 min Scan# 1572

Delta R.T. -0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

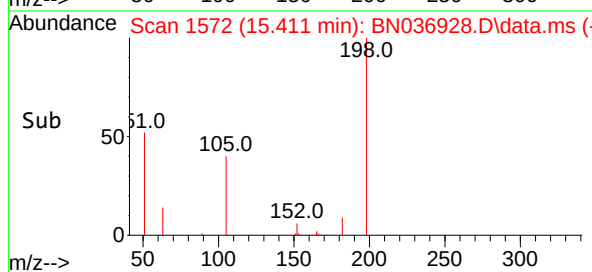
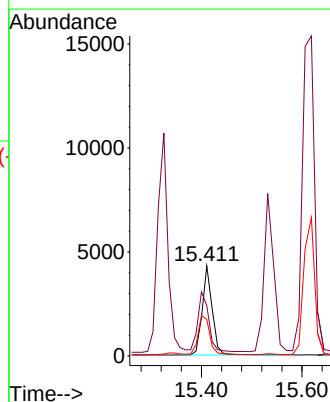
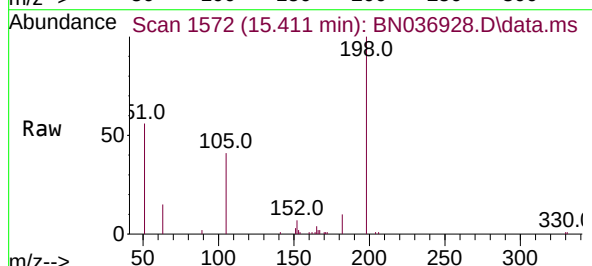
Tgt Ion:198 Resp: 6093

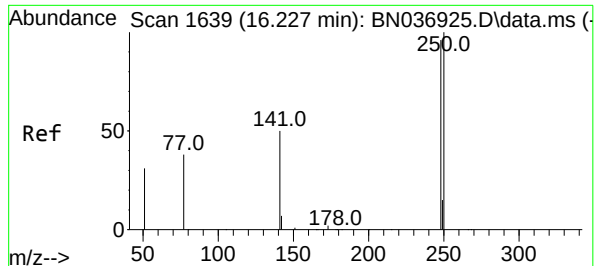
Ion Ratio Lower Upper

198 100

51 56.0 97.9 146.9#

105 40.7 50.0 75.0#

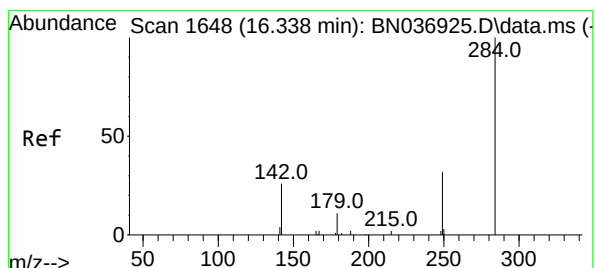
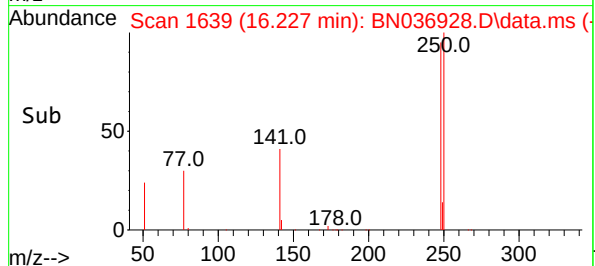
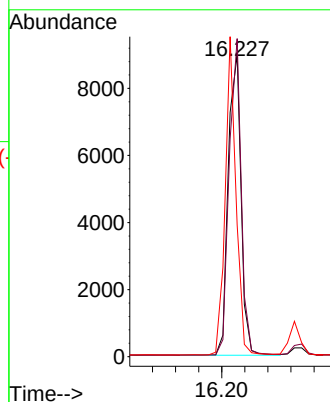
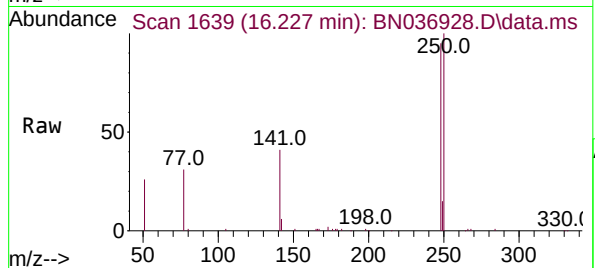




#21
4-Bromophenyl-phenylether
Concen: 3.266 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

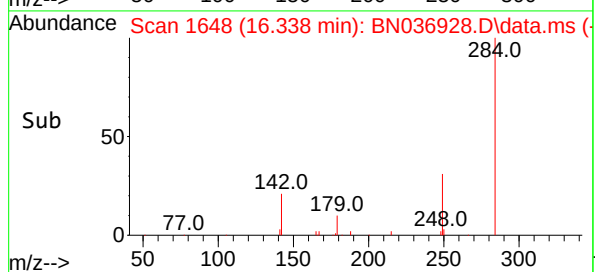
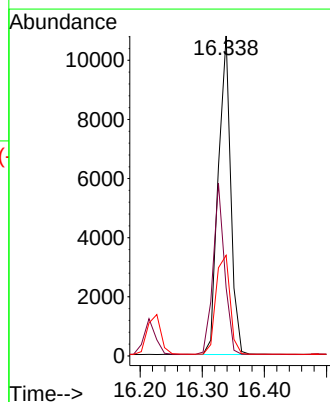
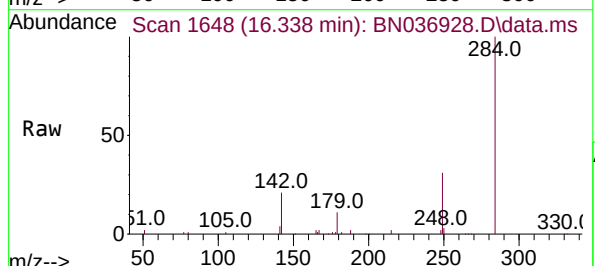
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

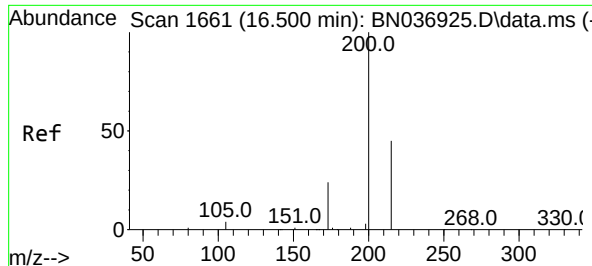
Tgt Ion:248 Resp: 13834
Ion Ratio Lower Upper
248 100
250 105.4 83.7 125.5
141 43.6 43.8 65.8#



#22
Hexachlorobenzene
Concen: 3.181 ng
RT: 16.338 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:284 Resp: 14891
Ion Ratio Lower Upper
284 100
142 50.5 40.0 60.0
249 35.8 28.2 42.2

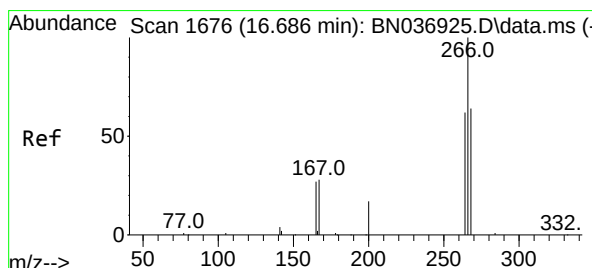
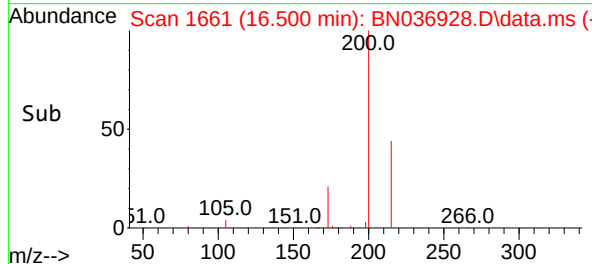
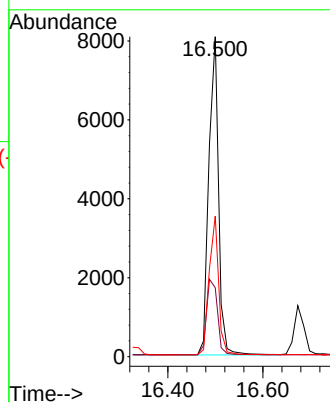
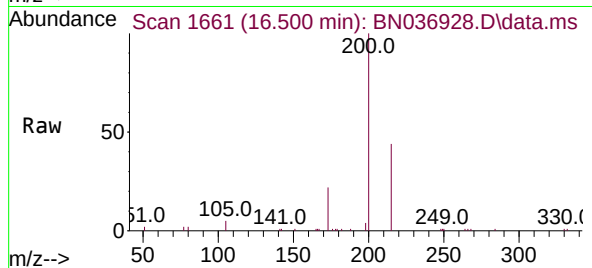




#23
Atrazine
Concen: 3.449 ng
RT: 16.500 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

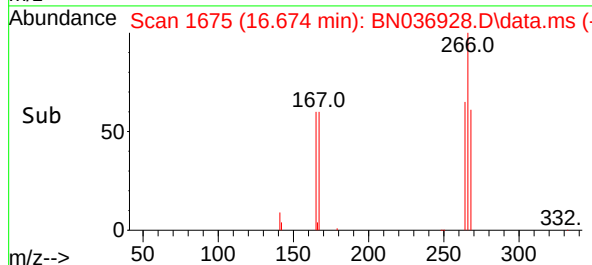
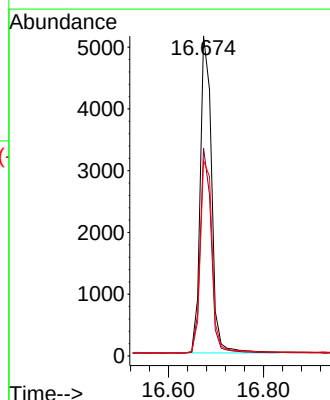
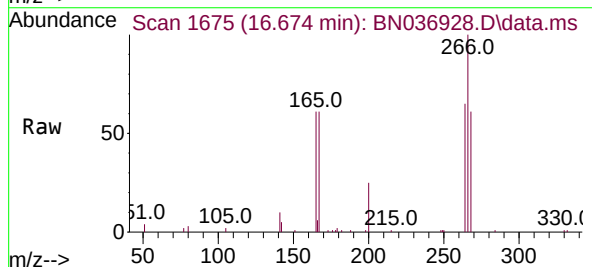
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

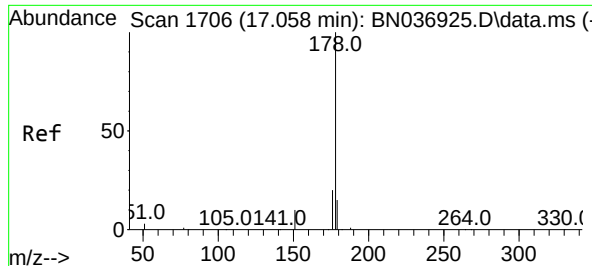
Tgt Ion:200 Resp: 11521
Ion Ratio Lower Upper
200 100
173 21.6 22.4 33.6#
215 43.9 38.6 57.8



#24
Pentachlorophenol
Concen: 3.511 ng
RT: 16.674 min Scan# 1675
Delta R.T. -0.012 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:266 Resp: 8528
Ion Ratio Lower Upper
266 100
264 62.8 49.9 74.9
268 63.7 52.2 78.4

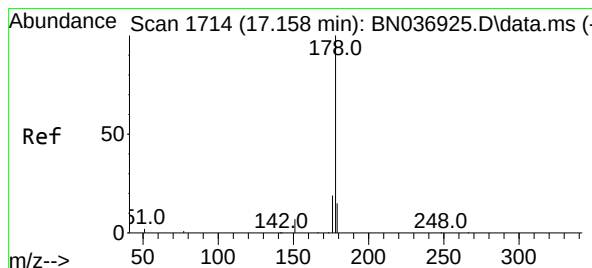
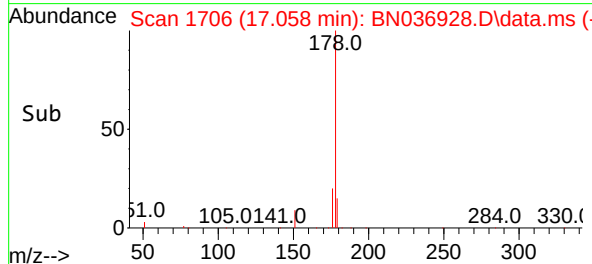
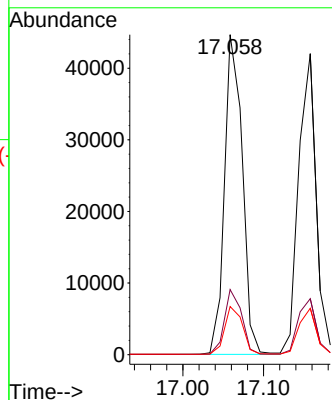
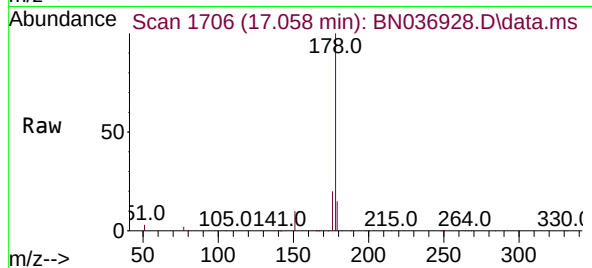




#25
Phenanthrene
Concen: 3.273 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

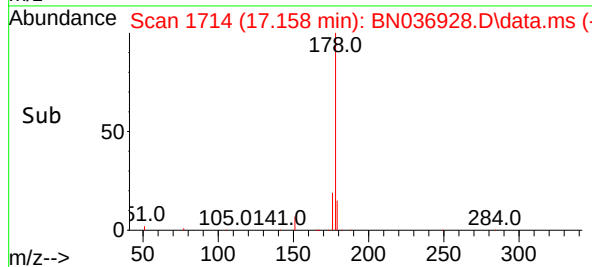
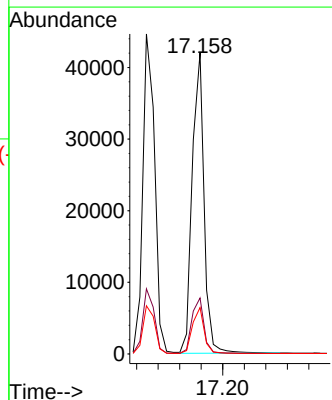
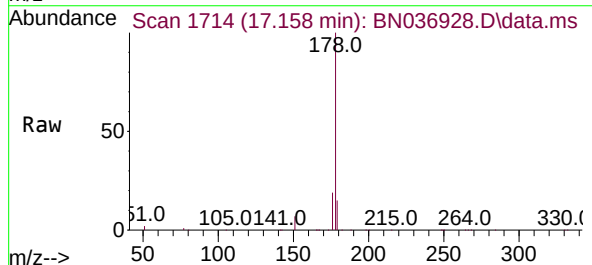
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

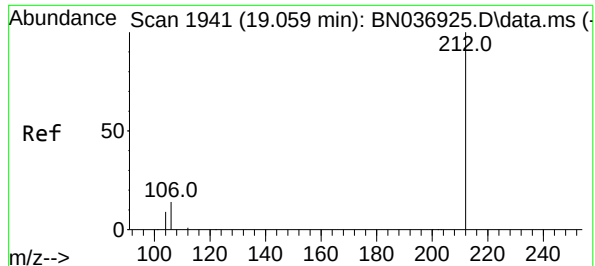
Tgt Ion:178 Resp: 68482
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.1 12.4 18.6



#26
Anthracene
Concen: 3.430 ng
RT: 17.158 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:178 Resp: 64181
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.2 12.1 18.1





#27

Fluoranthene-d10

Concen: 3.290 ng

RT: 19.059 min Scan# 1941

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

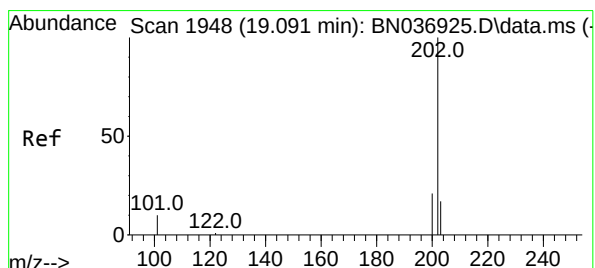
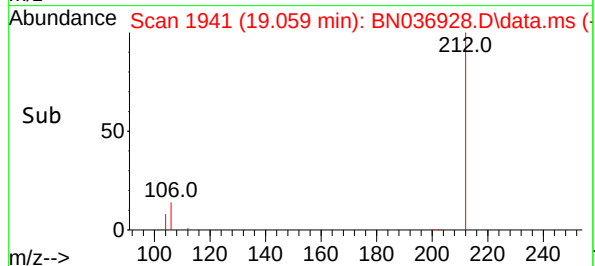
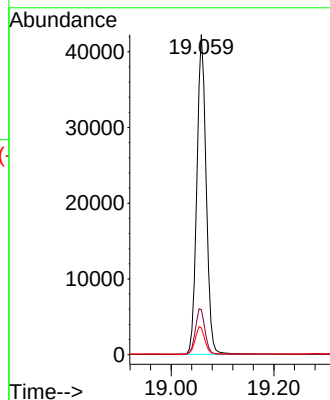
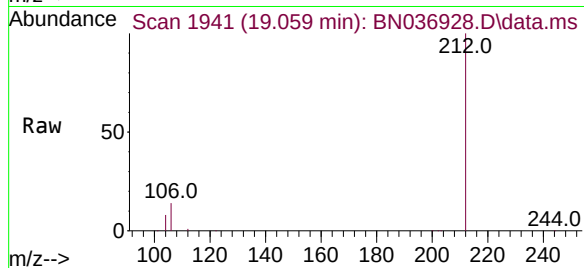
Tgt Ion:212 Resp: 53576

Ion Ratio Lower Upper

212 100

106 14.7 11.6 17.4

104 8.8 7.0 10.4



#28

Fluoranthene

Concen: 3.358 ng

RT: 19.087 min Scan# 1947

Delta R.T. -0.005 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

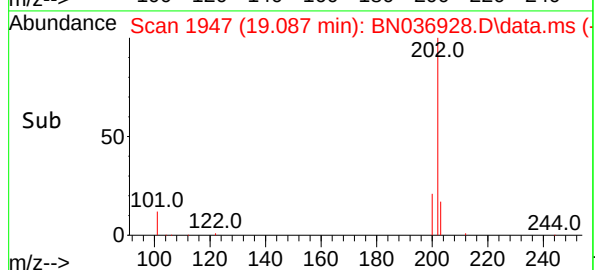
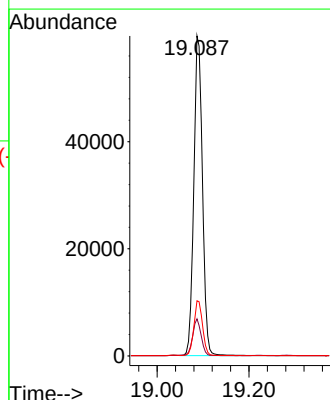
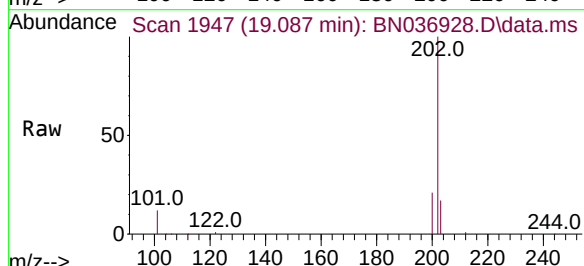
Tgt Ion:202 Resp: 77836

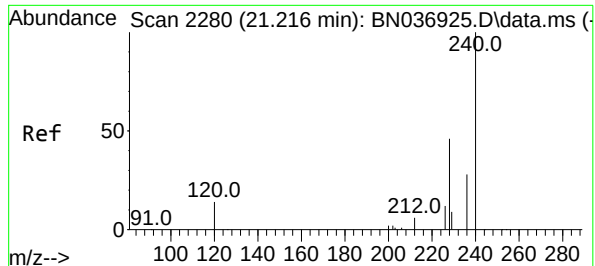
Ion Ratio Lower Upper

202 100

101 11.5 8.5 12.7

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.216 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

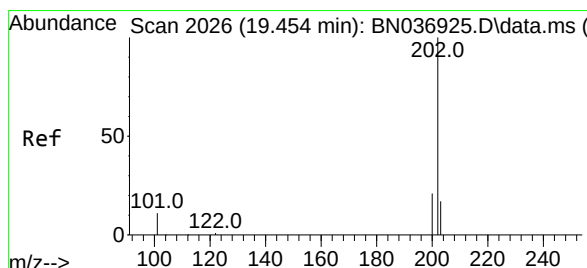
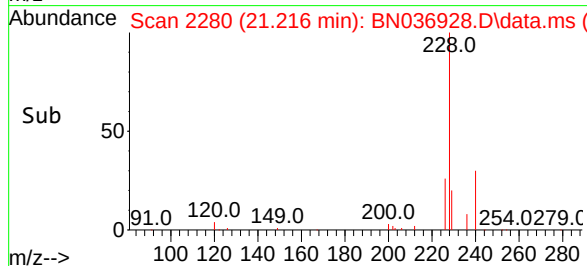
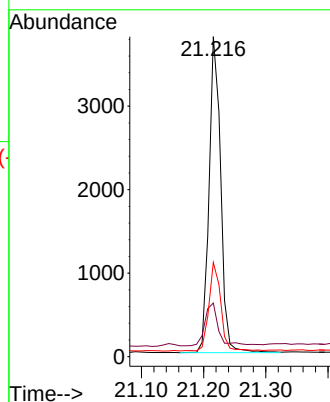
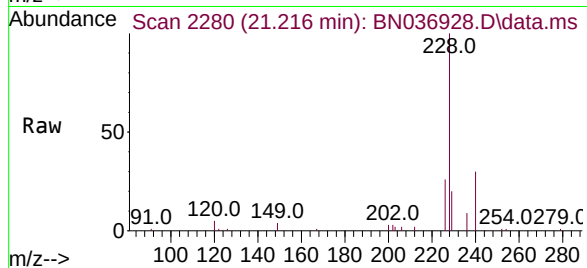
Tgt Ion:240 Resp: 4896

Ion Ratio Lower Upper

240 100

120 16.7 14.1 21.1

236 29.5 23.8 35.8



#30

Pyrene

Concen: 3.241 ng

RT: 19.454 min Scan# 2026

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

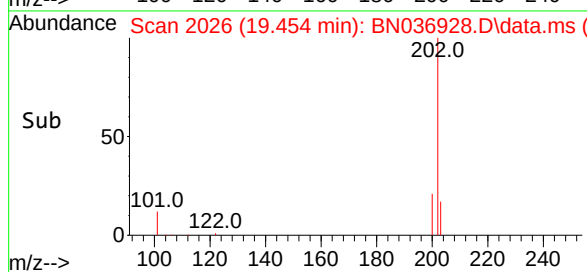
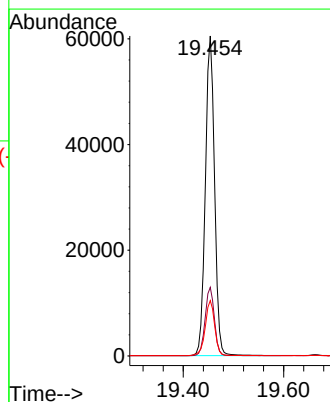
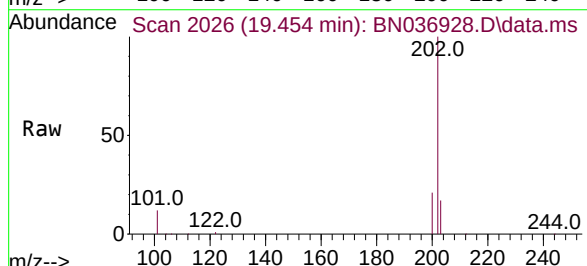
Tgt Ion:202 Resp: 77117

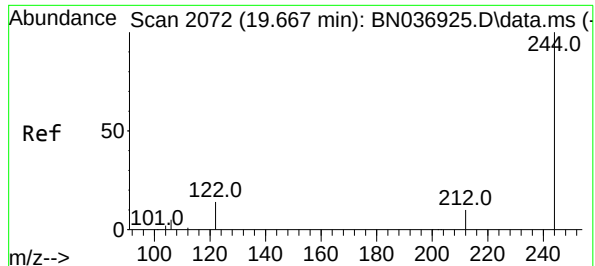
Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.6

203 17.7 14.0 21.0

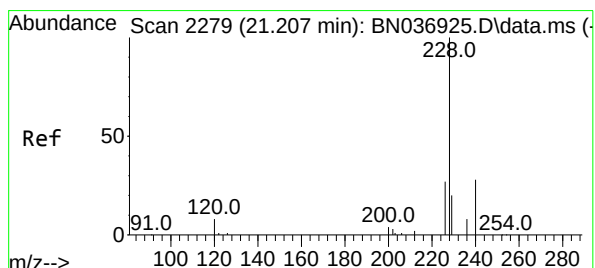
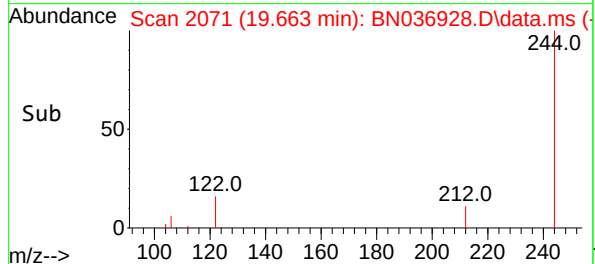
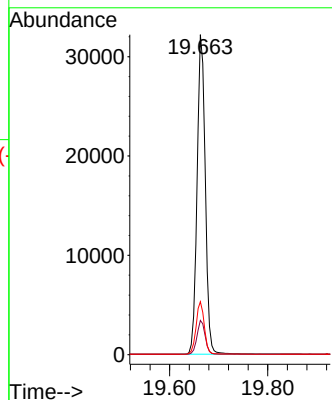
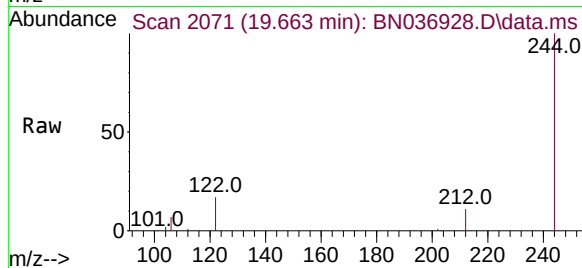




#31
Terphenyl-d14
Concen: 3.200 ng
RT: 19.663 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

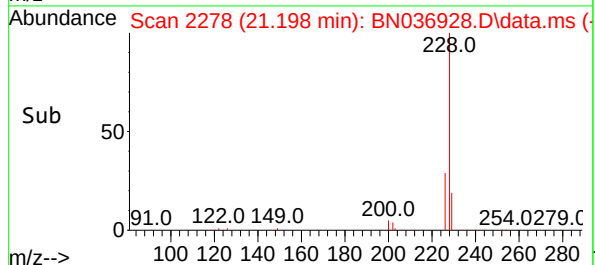
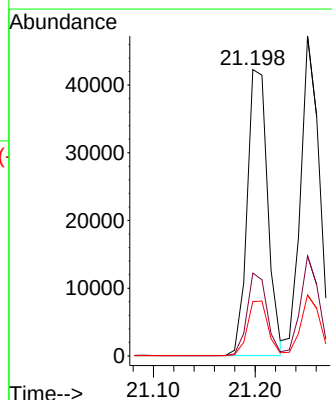
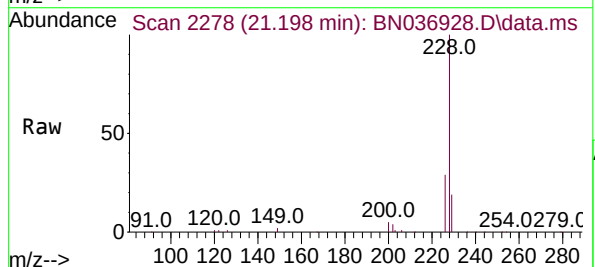
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

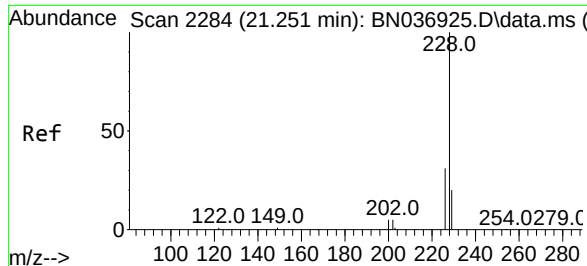
Tgt Ion:244 Resp: 37287
Ion Ratio Lower Upper
244 100
212 10.7 9.6 14.4
122 16.5 12.7 19.1



#32
Benzo(a)anthracene
Concen: 3.310 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:228 Resp: 59092
Ion Ratio Lower Upper
228 100
226 29.0 22.2 33.4
229 19.0 16.4 24.6





#33

Chrysene

Concen: 3.149 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

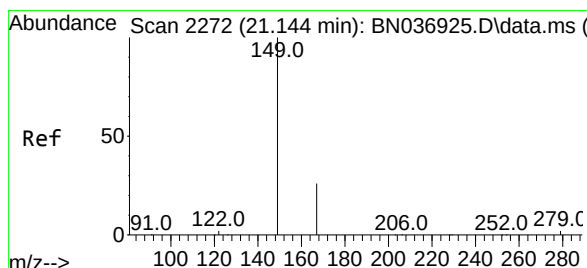
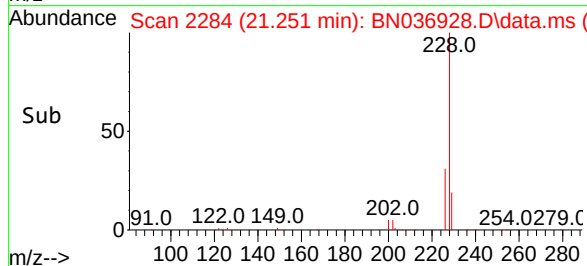
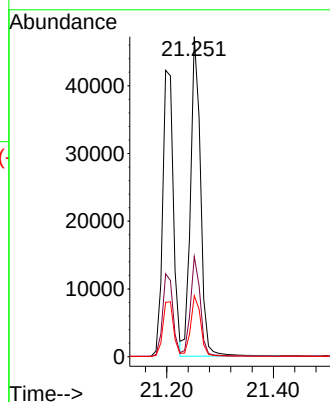
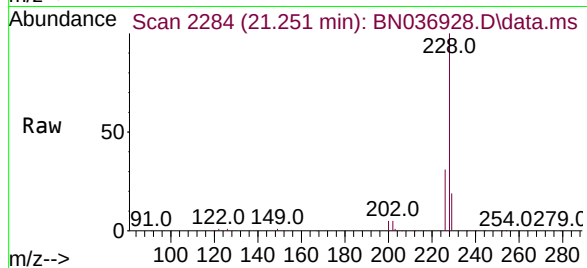
Tgt Ion:228 Resp: 61582

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 19.1 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.002 ng

RT: 21.144 min Scan# 2272

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

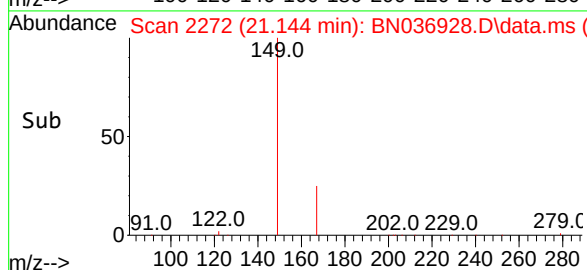
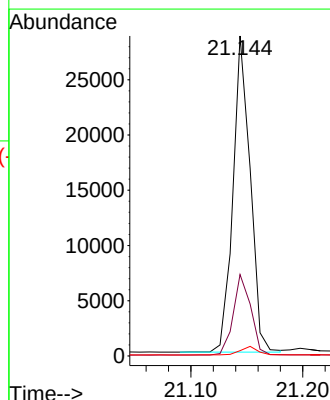
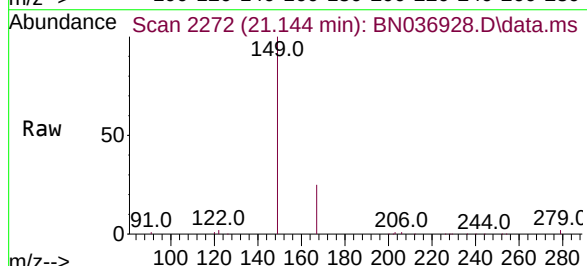
Tgt Ion:149 Resp: 30625

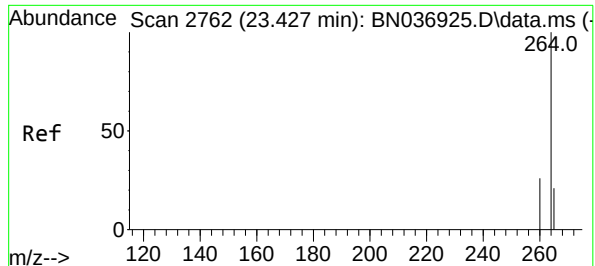
Ion Ratio Lower Upper

149 100

167 26.0 21.0 31.6

279 2.7 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.430 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036928.D

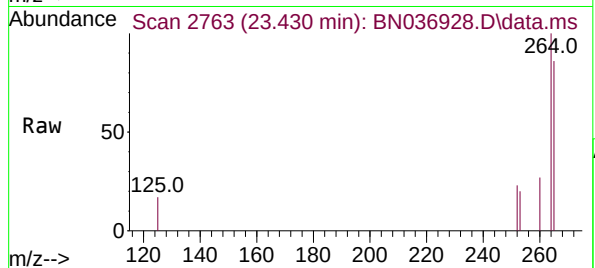
Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



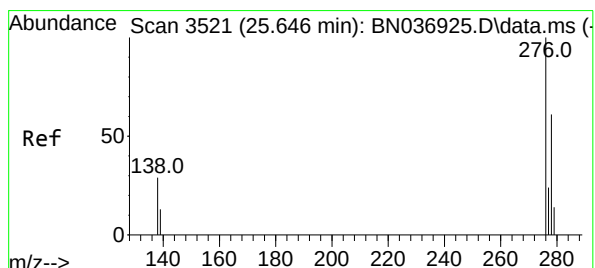
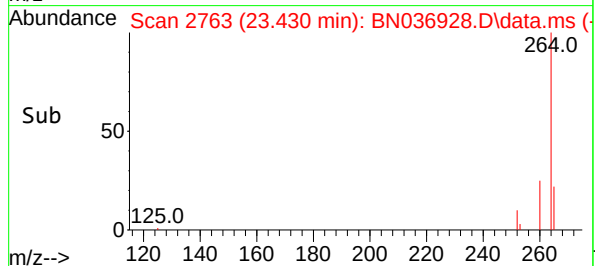
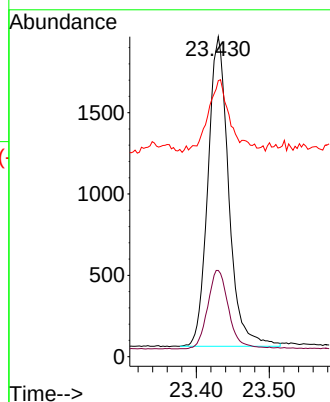
Tgt Ion:264 Resp: 3763

Ion Ratio Lower Upper

264 100

260 26.9 22.2 33.2

265 86.3 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.369 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

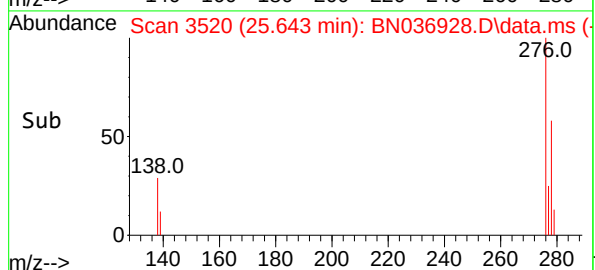
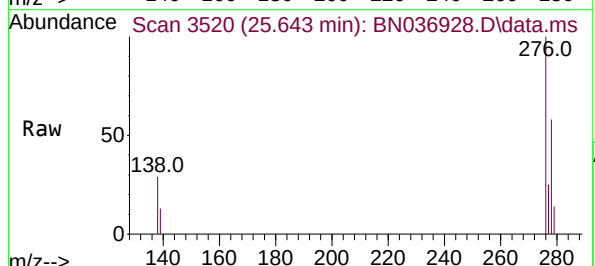
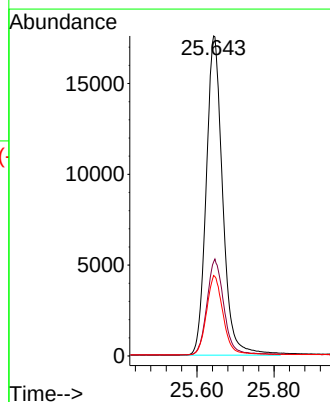
Tgt Ion:276 Resp: 51906

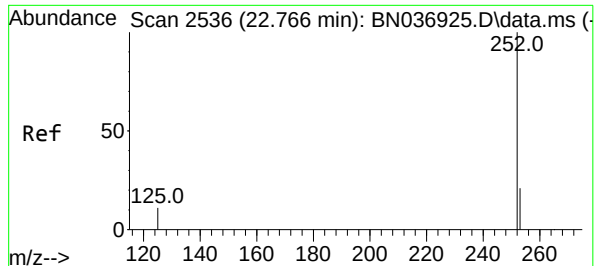
Ion Ratio Lower Upper

276 100

138 30.7 23.0 34.6

277 25.1 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 3.393 ng

RT: 22.766 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

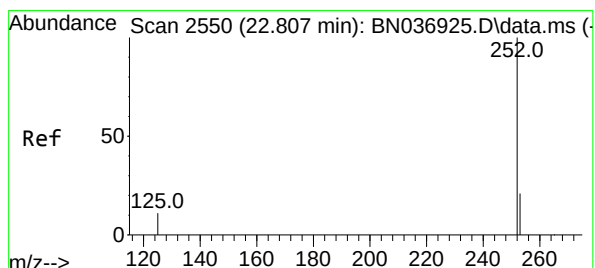
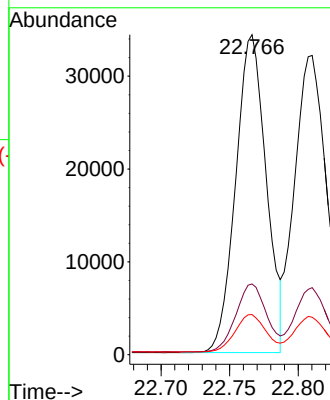
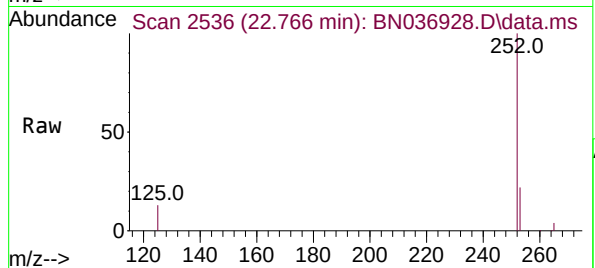
Tgt Ion:252 Resp: 52921

Ion Ratio Lower Upper

252 100

253 22.1 22.1 33.1

125 12.6 14.2 21.2#



#38

Benzo(k)fluoranthene

Concen: 3.406 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.003 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

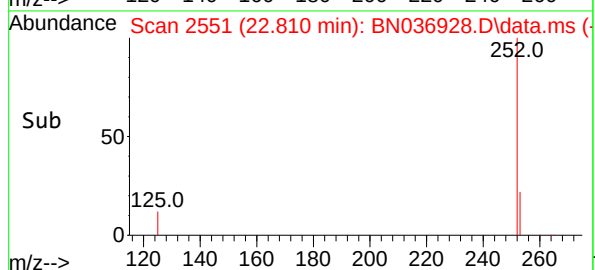
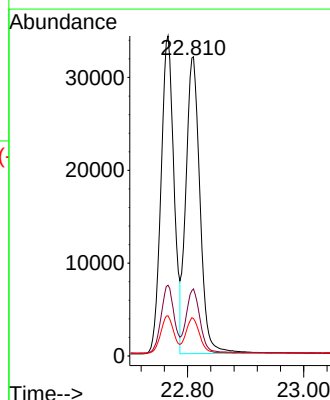
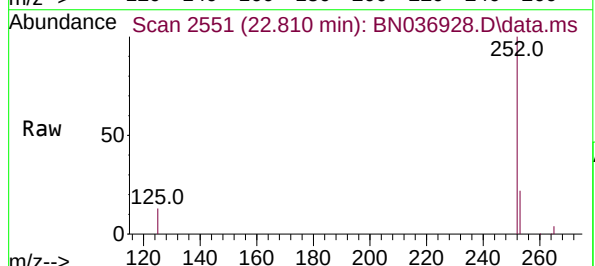
Tgt Ion:252 Resp: 53706

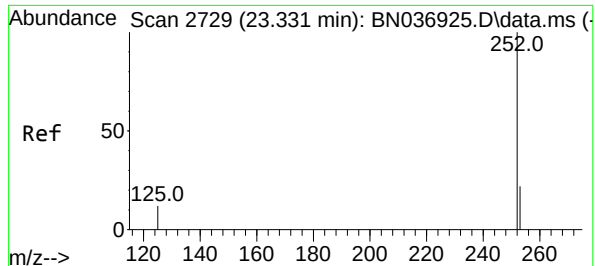
Ion Ratio Lower Upper

252 100

253 22.4 22.8 34.2#

125 12.5 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 3.387 ng

RT: 23.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036928.D

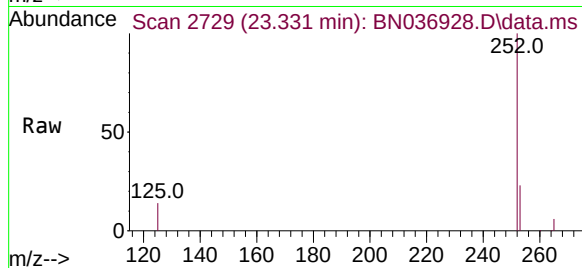
Acq: 28 Apr 2025 14:36

Instrument :

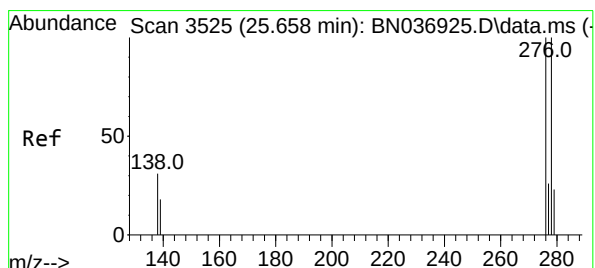
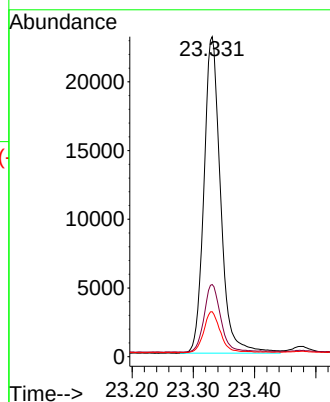
BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:	252	Resp:	43554
Ion Ratio	Lower	Upper	
252	100		
253	22.6	25.9	38.9#
125	14.1	17.4	26.0#



#40

Dibenzo(a,h)anthracene

Concen: 3.423 ng

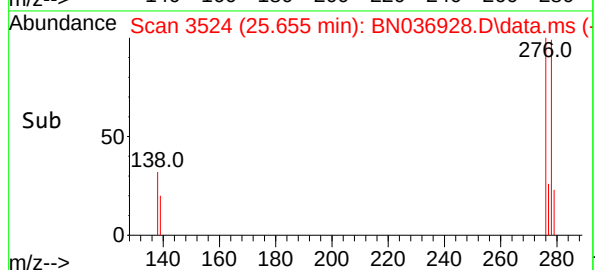
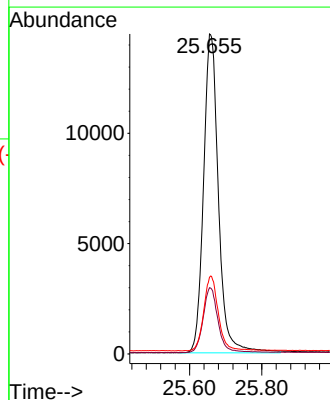
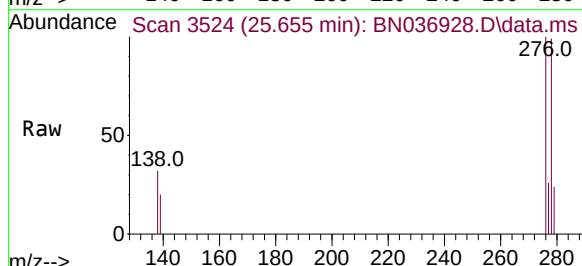
RT: 25.655 min Scan# 3524

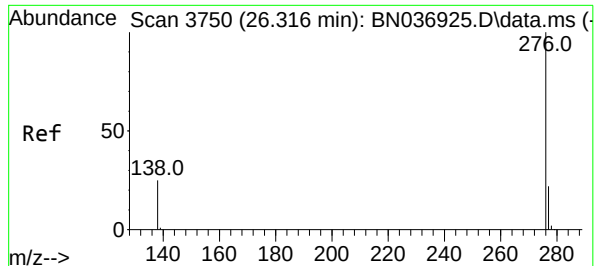
Delta R.T. -0.003 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Tgt Ion:	278	Resp:	41500
Ion Ratio	Lower	Upper	
278	100		
139	20.7	17.4	26.2
279	23.9	24.9	37.3#





#41

Benzo(g,h,i)perylene

Concen: 3.263 ng

RT: 26.319 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036928.D

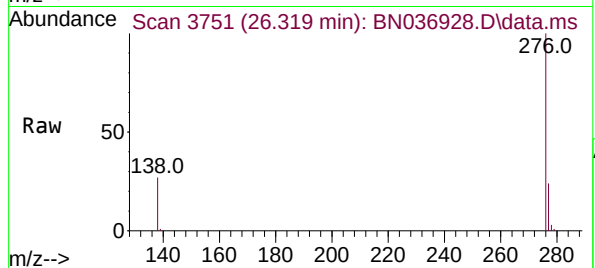
Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



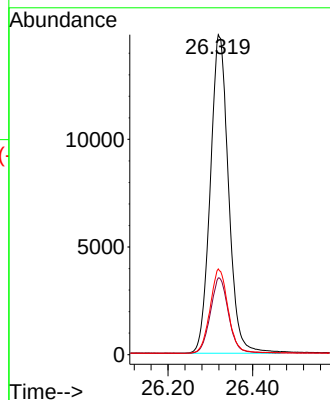
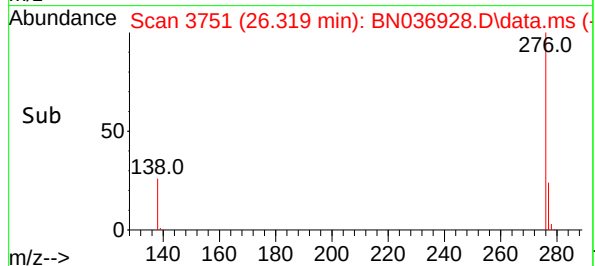
Tgt Ion:276 Resp: 44250

Ion Ratio Lower Upper

276 100

277 24.0 20.2 30.2

138 26.8 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036929.D
 Acq On : 28 Apr 2025 15:12
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Apr 28 15:34:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:18:01 2025
 Response via : Initial Calibration

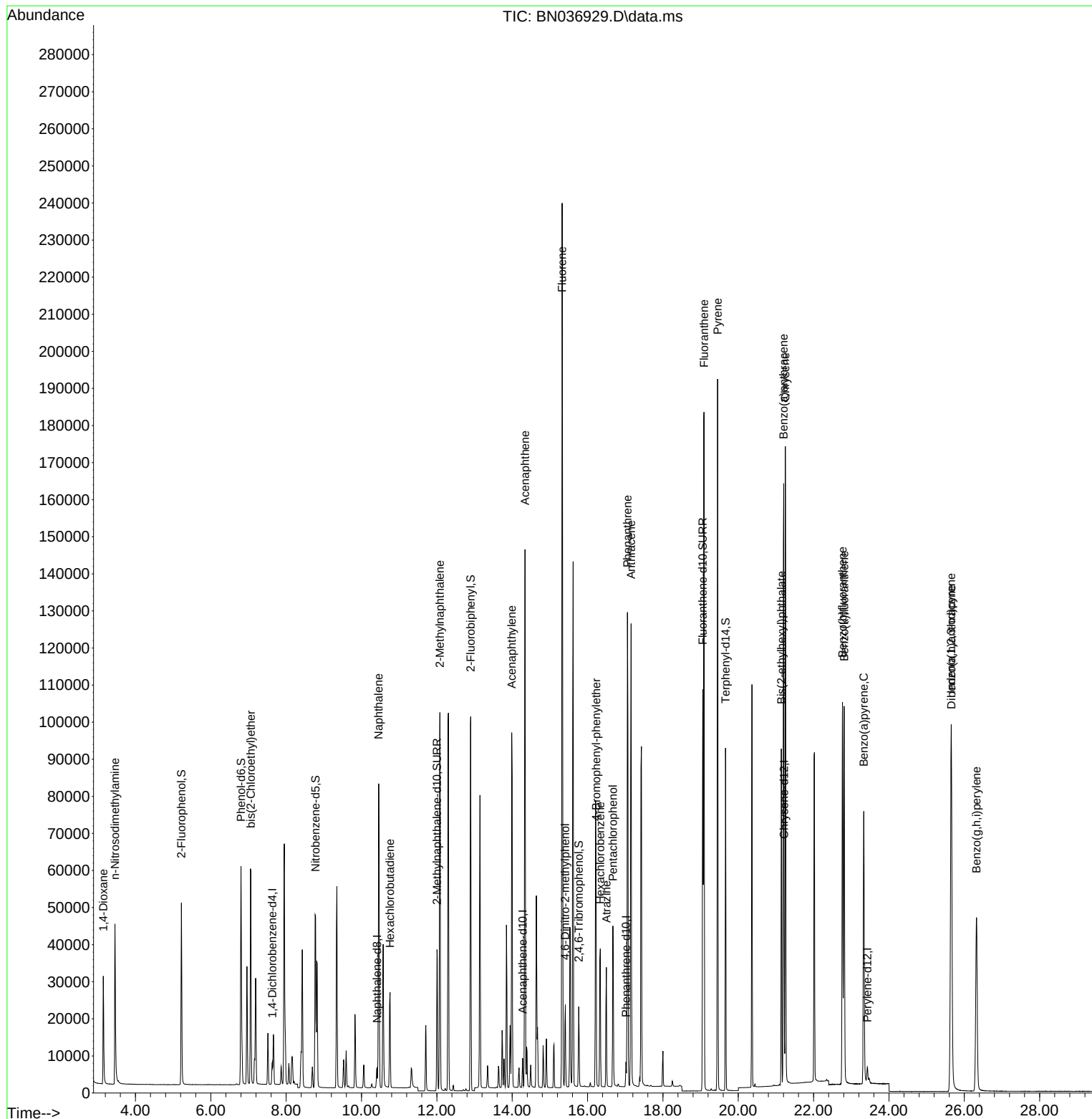
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.632	152	2667	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6741	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	4034	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	7924	0.400	ng	0.00
29) Chrysene-d12	21.215	240	7034	0.400	ng	0.00
35) Perylene-d12	23.427	264	5350	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	32346	4.701	ng	0.00
5) Phenol-d6	6.802	99	42419	5.060	ng	0.00
8) Nitrobenzene-d5	8.781	82	36759	5.249	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	49610	5.308	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	9898	5.599	ng	0.00
15) 2-Fluorobiphenyl	12.898	172	97228	4.984	ng	0.00
27) Fluoranthene-d10	19.058	212	110482	5.447	ng	0.00
31) Terphenyl-d14	19.662	244	78873	4.712	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.147	88	15494	4.610	ng	96
3) n-Nitrosodimethylamine	3.458	42	30605	4.705	ng	# 98
6) bis(2-Chloroethyl)ether	7.062	93	38731	4.973	ng	99
9) Naphthalene	10.457	128	98160	5.004	ng	98
10) Hexachlorobutadiene	10.756	225	20245	4.733	ng	# 98
12) 2-Methylnaphthalene	12.082	142	67281	5.359	ng	98
16) Acenaphthylene	13.988	152	104172	5.334	ng	100
17) Acenaphthene	14.341	154	65801	5.093	ng	98
18) Fluorene	15.325	166	88362	5.254	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	13303	6.700	ng	# 52
21) 4-Bromophenyl-phenylether	16.226	248	26778	5.074	ng	94
22) Hexachlorobenzene	16.338	284	27944	4.793	ng	99
23) Atrazine	16.499	200	24525	5.893	ng	# 91
24) Pentachlorophenol	16.673	266	17963	5.937	ng	99
25) Phenanthrene	17.058	178	133437	5.119	ng	99
26) Anthracene	17.157	178	128680	5.520	ng	100
28) Fluoranthene	19.091	202	159754	5.533	ng	99
30) Pyrene	19.453	202	160324	4.691	ng	100
32) Benzo(a)anthracene	21.206	228	137209	5.349	ng	98
33) Chrysene	21.251	228	135038	4.807	ng	98
34) Bis(2-ethylhexyl)phtha...	21.143	149	76115	5.194	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.649	276	107583	4.911	ng	97
37) Benzo(b)fluoranthene	22.766	252	122058	5.504	ng	# 89
38) Benzo(k)fluoranthene	22.810	252	119359	5.325	ng	# 87
39) Benzo(a)pyrene	23.333	252	98753	5.402	ng	# 82
40) Dibenzo(a,h)anthracene	25.660	278	84789	4.920	ng	# 91
41) Benzo(g,h,i)perylene	26.324	276	89523	4.643	ng	99

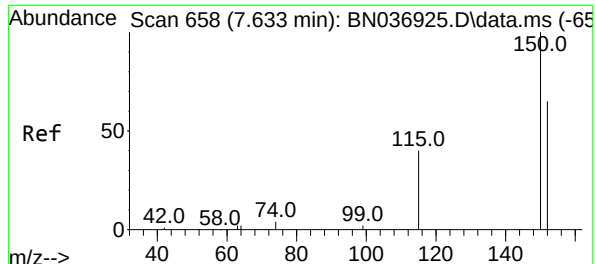
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036929.D
Acq On : 28 Apr 2025 15:12
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Apr 28 15:34:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:18:01 2025
Response via : Initial Calibration

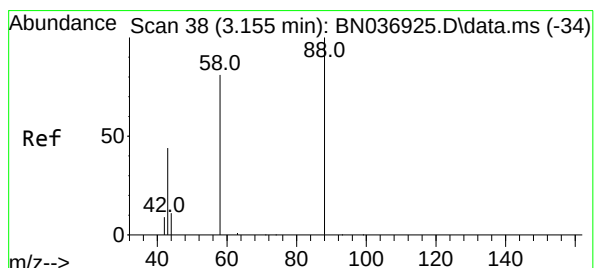
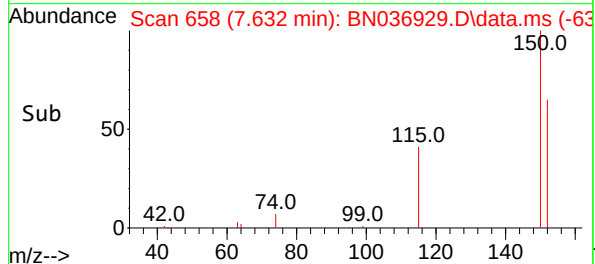
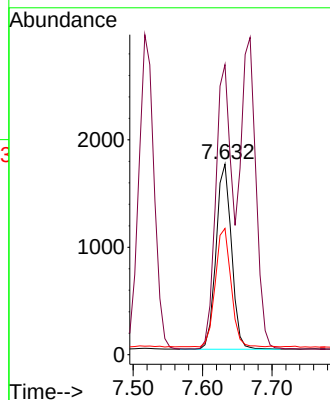
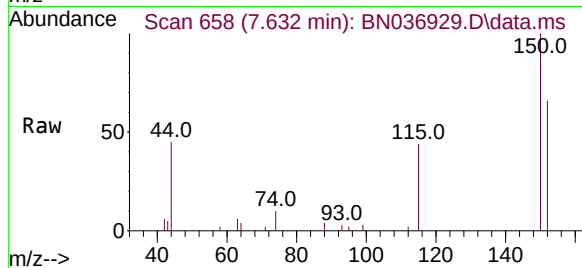




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.632 min Scan# 61
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

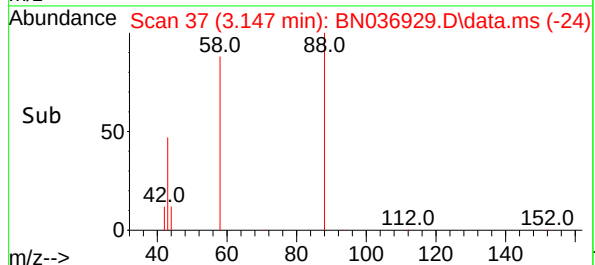
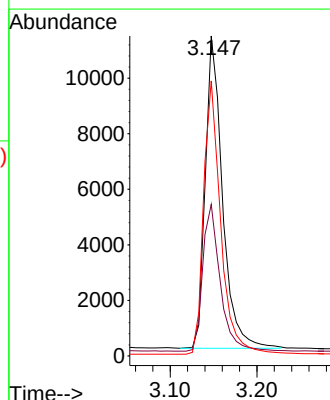
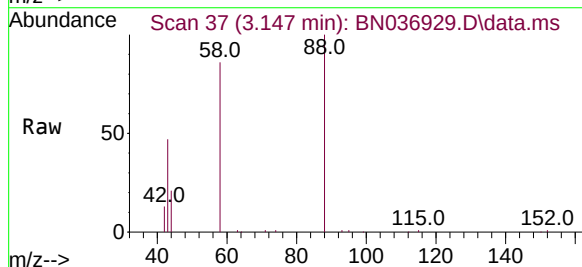
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

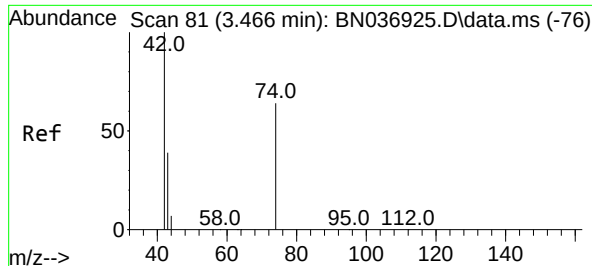
Tgt Ion:152 Resp: 2667
Ion Ratio Lower Upper
152 100
150 152.3 121.1 181.7
115 66.3 51.8 77.6



#2
1,4-Dioxane
Concen: 4.610 ng
RT: 3.147 min Scan# 37
Delta R.T. -0.008 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion: 88 Resp: 15494
Ion Ratio Lower Upper
88 100
43 47.8 37.9 56.9
58 87.2 65.8 98.6

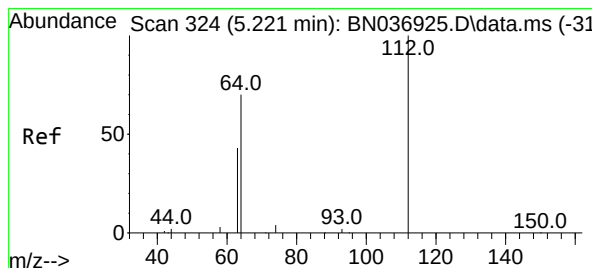
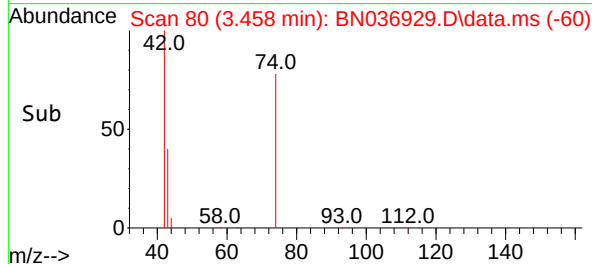
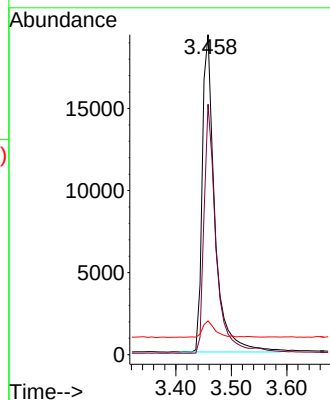
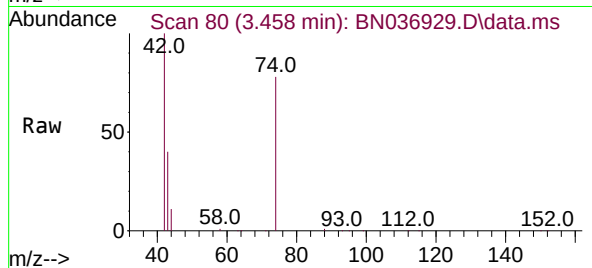




#3
n-Nitrosodimethylamine
Concen: 4.705 ng
RT: 3.458 min Scan# 80
Delta R.T. -0.008 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

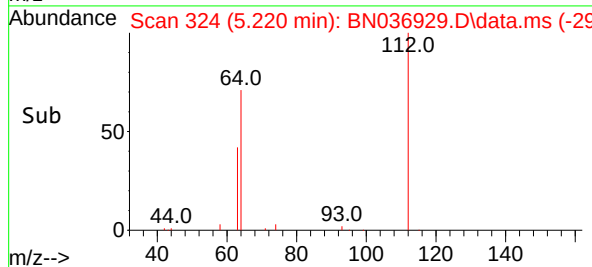
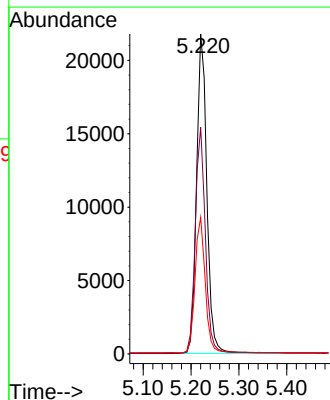
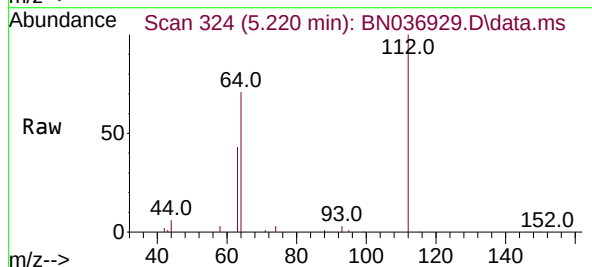
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

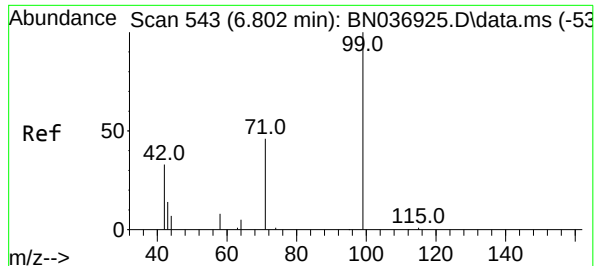
Tgt Ion: 42 Resp: 30605
Ion Ratio Lower Upper
42 100
74 75.7 59.9 89.9
44 5.2 7.5 11.3#



#4
2-Fluorophenol
Concen: 4.701 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion: 112 Resp: 32346
Ion Ratio Lower Upper
112 100
64 69.9 55.7 83.5
63 42.2 33.9 50.9

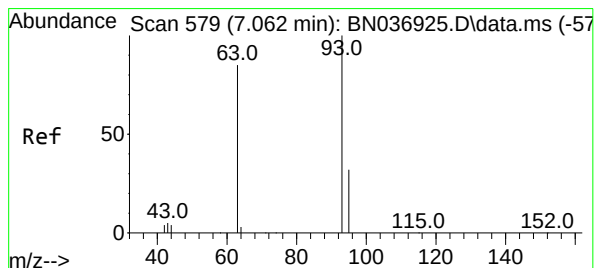
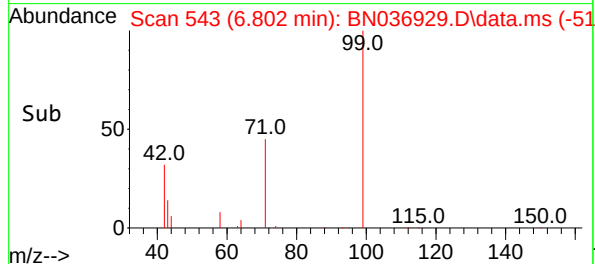
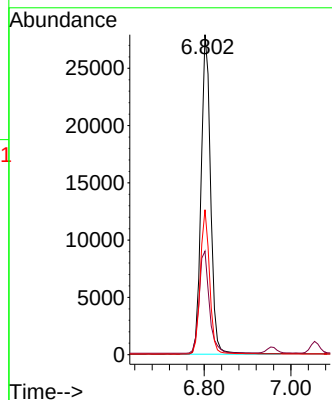
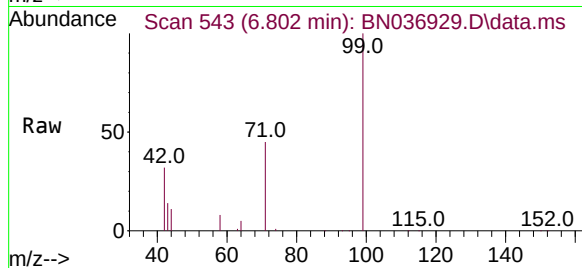




#5
Phenol-d6
Concen: 5.060 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

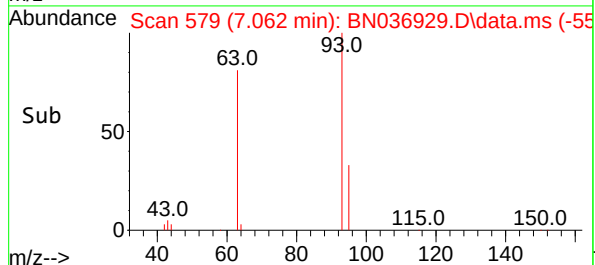
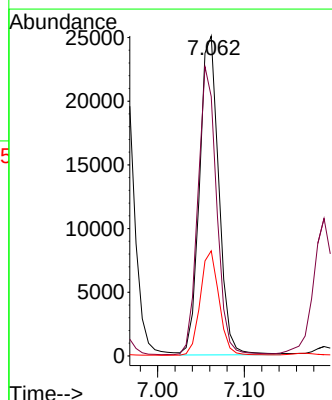
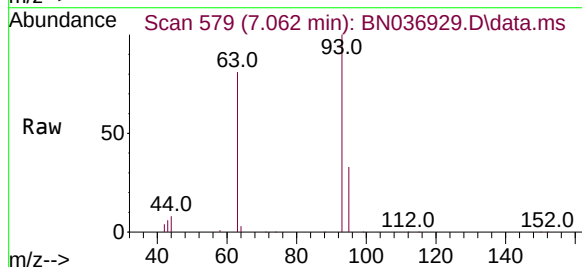
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

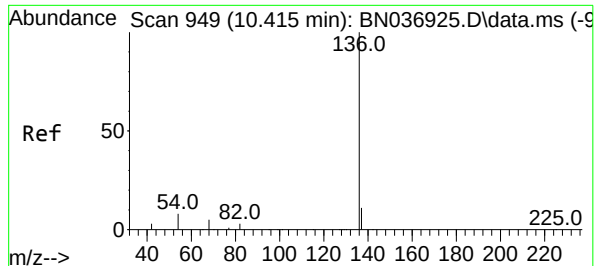
Tgt Ion: 99 Resp: 42419
Ion Ratio Lower Upper
99 100
42 34.6 29.6 44.4
71 44.3 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 4.973 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion: 93 Resp: 38731
Ion Ratio Lower Upper
93 100
63 87.6 69.0 103.6
95 32.0 25.4 38.0

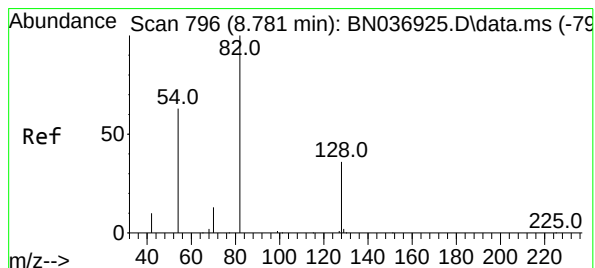
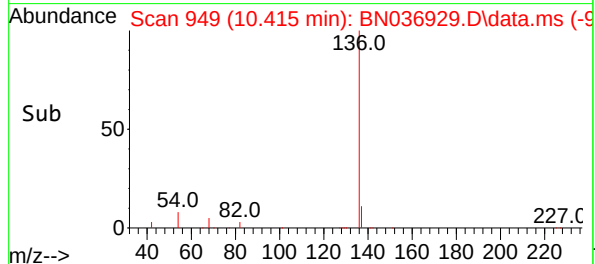
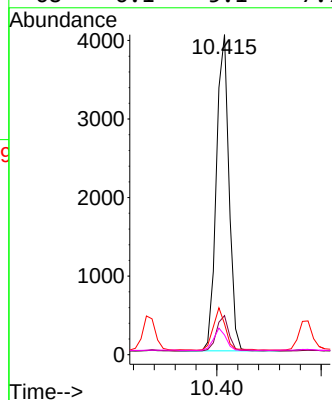
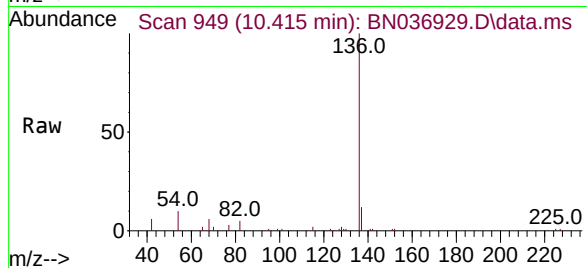




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

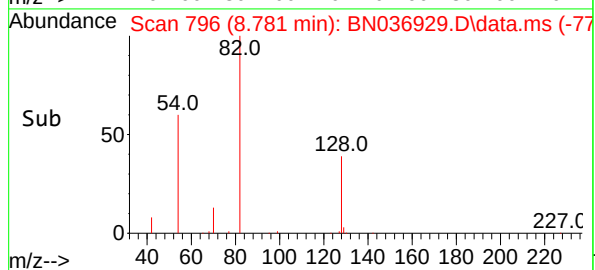
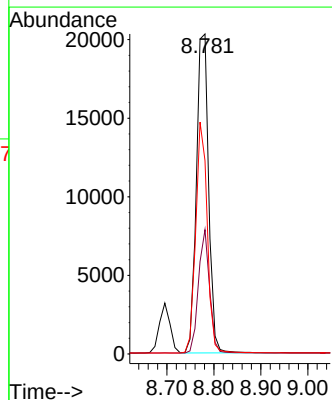
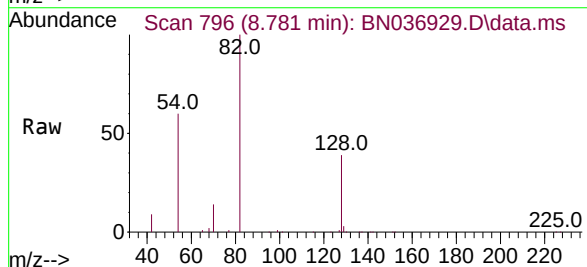
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

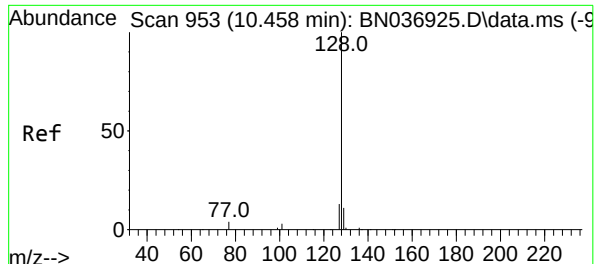
Tgt Ion:	136	Resp:	6741
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.7	14.5
54	9.7	8.0	12.0
68	6.1	5.1	7.7



#8
Nitrobenzene-d5
Concen: 5.249 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:	82	Resp:	36759
Ion	Ratio	Lower	Upper
82	100		
128	38.9	30.7	46.1
54	60.4	52.1	78.1

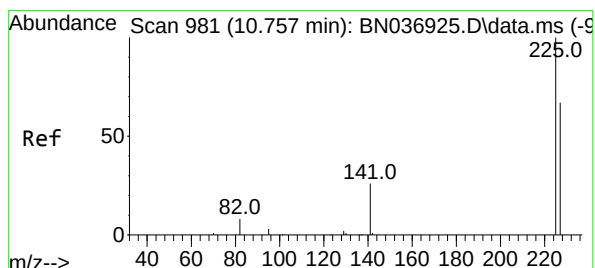
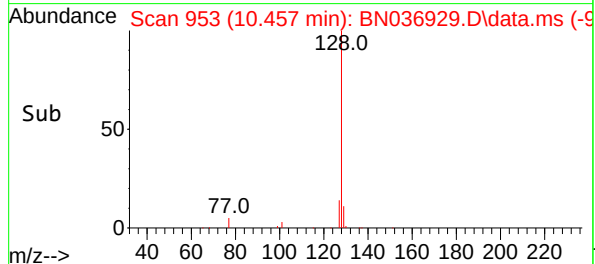
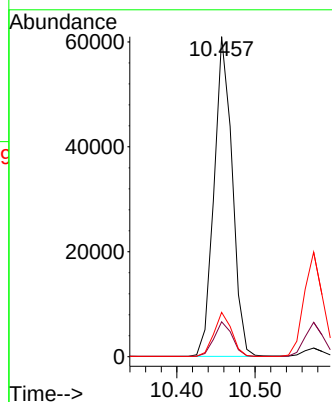
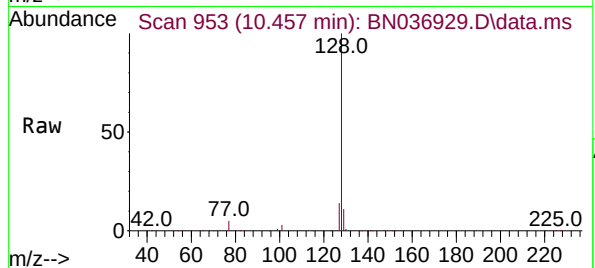




#9
Naphthalene
Concen: 5.004 ng
RT: 10.457 min Scan# 91
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

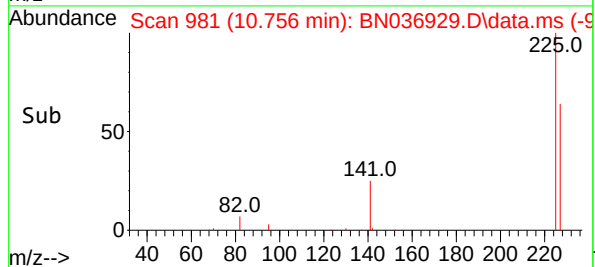
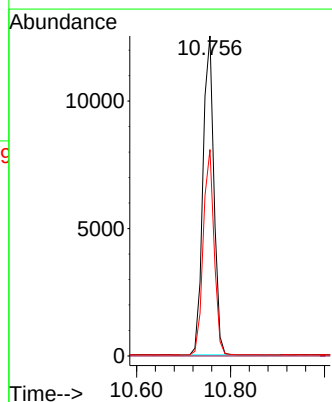
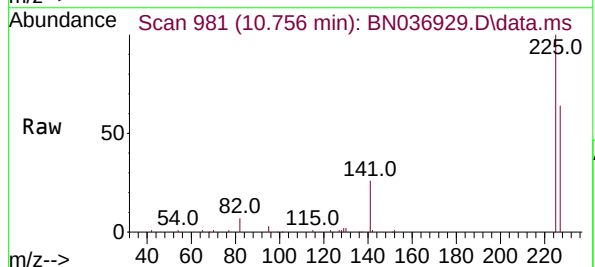
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

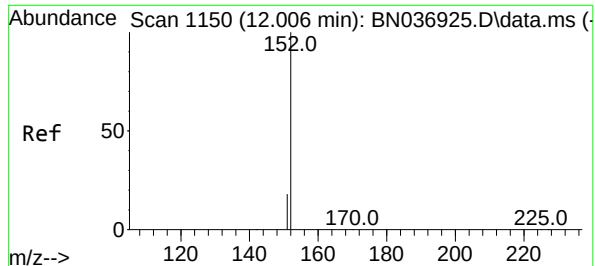
Tgt Ion:128 Resp: 98160
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.9 11.4 17.2



#10
Hexachlorobutadiene
Concen: 4.733 ng
RT: 10.756 min Scan# 981
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:225 Resp: 20245
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 52.2 78.4

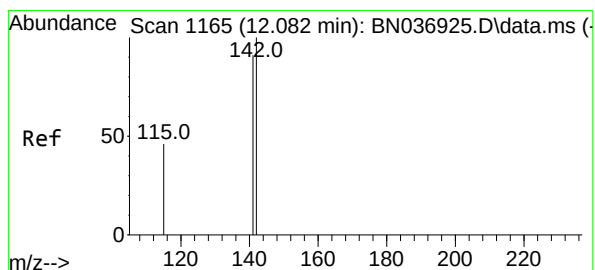
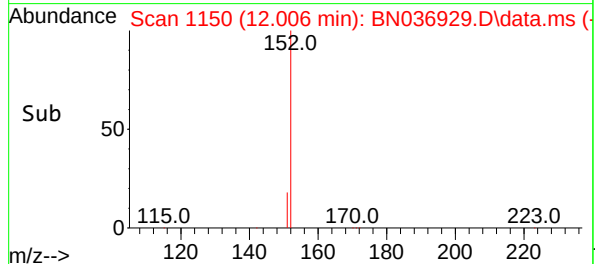
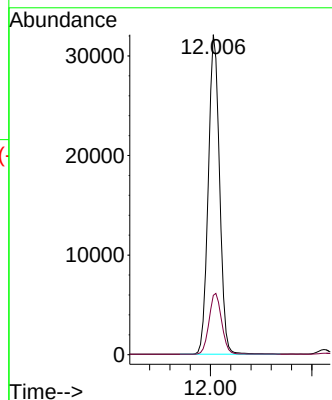
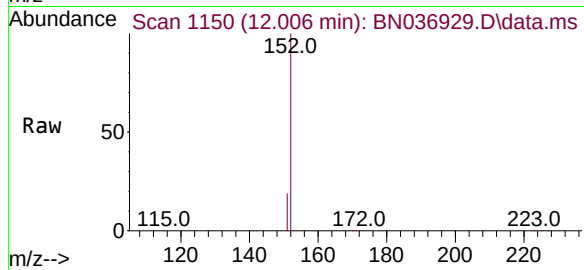




#11
2-Methylnaphthalene-d10
Concen: 5.308 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

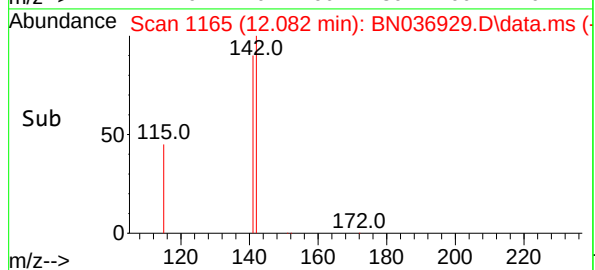
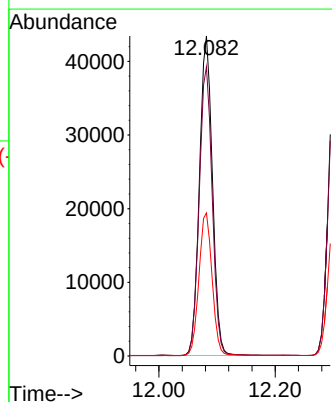
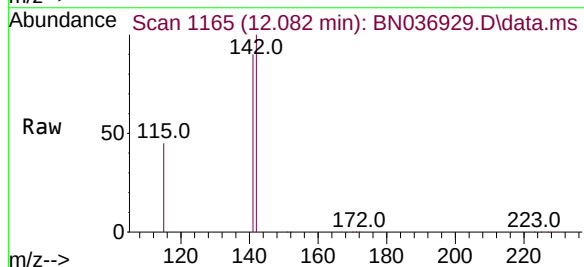
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

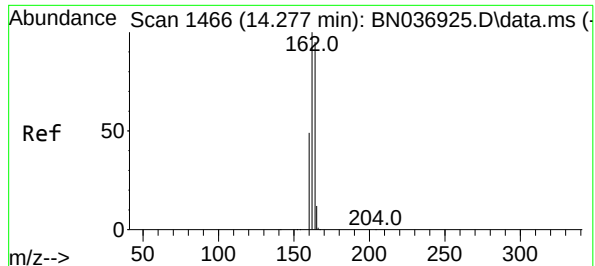
Tgt Ion:152 Resp: 49610
Ion Ratio Lower Upper
152 100
151 21.3 16.9 25.3



#12
2-Methylnaphthalene
Concen: 5.359 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:142 Resp: 67281
Ion Ratio Lower Upper
142 100
141 90.4 72.8 109.2
115 44.7 38.2 57.4

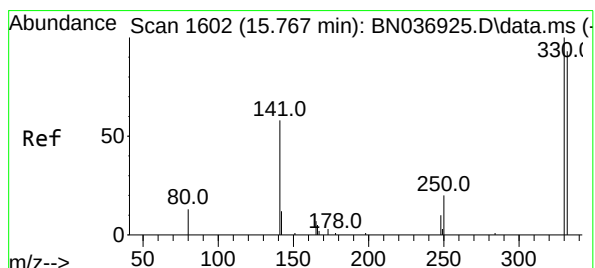
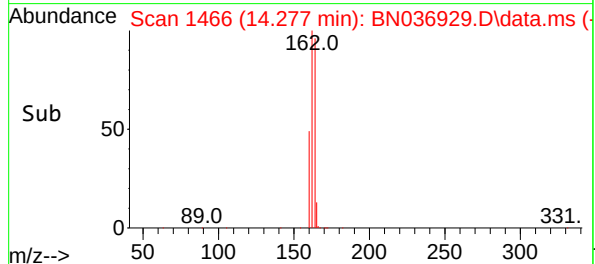
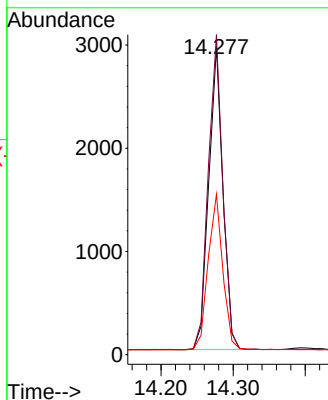
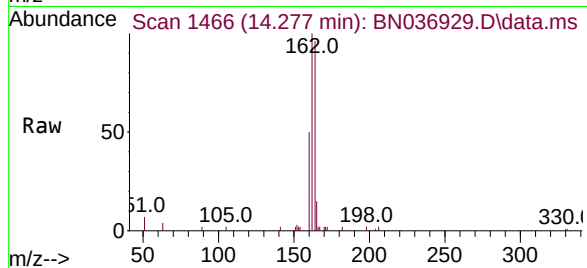




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

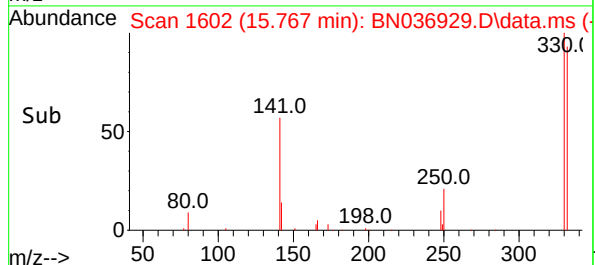
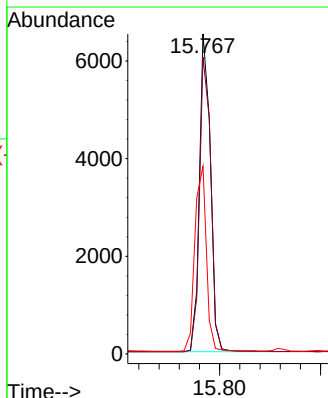
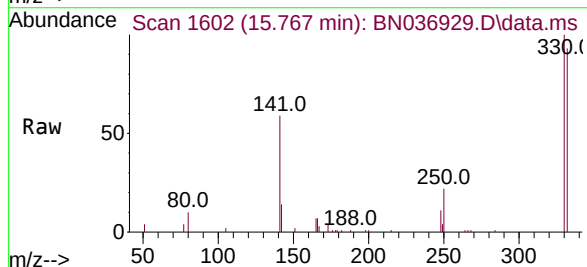
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

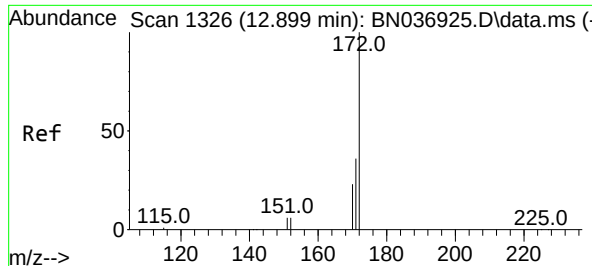
Tgt Ion:	164	Resp:	4034
Ion	Ratio	Lower	Upper
164	100		
162	103.9	83.8	125.8
160	52.0	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 5.599 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:	330	Resp:	9898
Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.3	114.5
141	60.7	45.4	68.2





#15

2-Fluorobiphenyl

Concen: 4.984 ng

RT: 12.898 min Scan# 1439

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

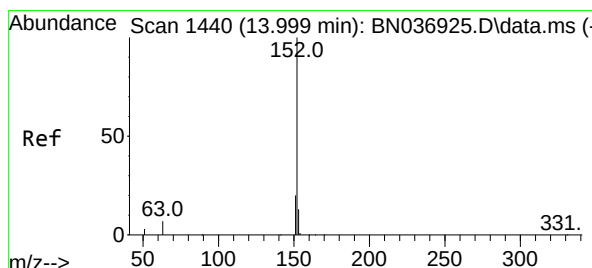
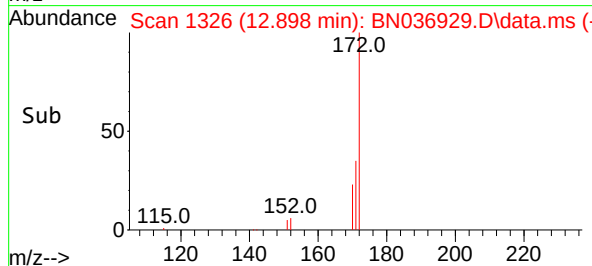
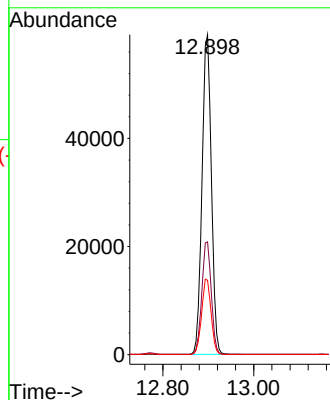
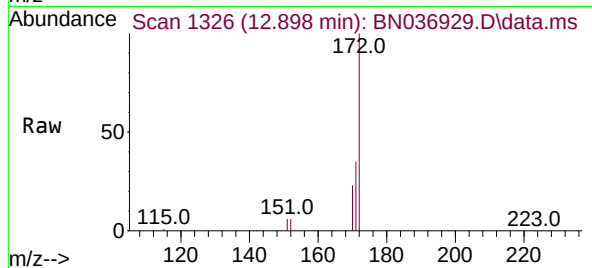
Tgt Ion:172 Resp: 97228

Ion Ratio Lower Upper

172 100

171 35.2 29.4 44.0

170 23.2 19.4 29.0



#16

Acenaphthylene

Concen: 5.334 ng

RT: 13.988 min Scan# 1439

Delta R.T. -0.011 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

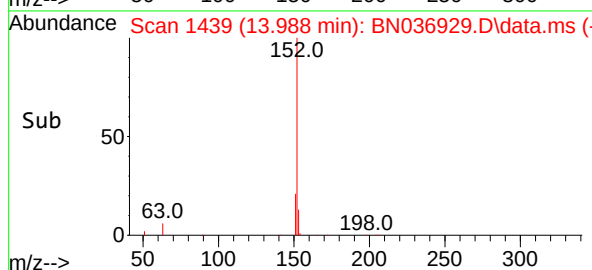
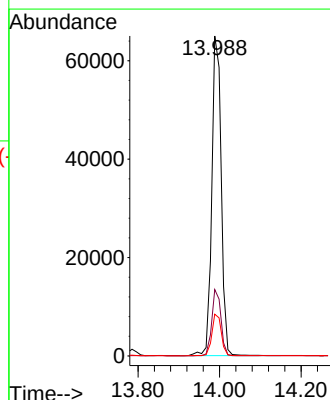
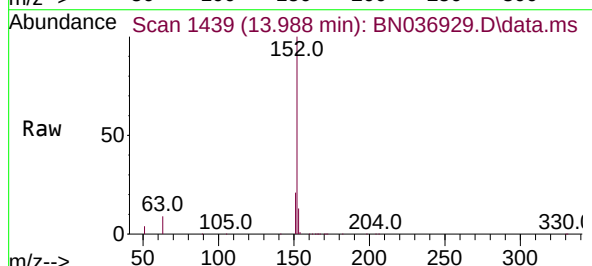
Tgt Ion:152 Resp: 104172

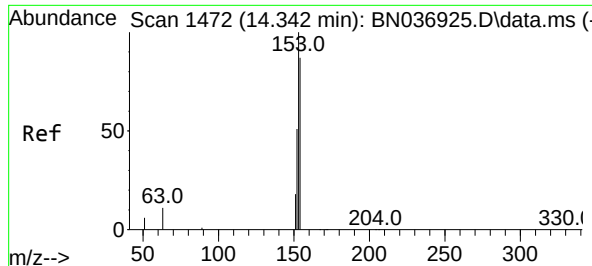
Ion Ratio Lower Upper

152 100

151 20.0 16.0 24.0

153 13.0 10.2 15.2

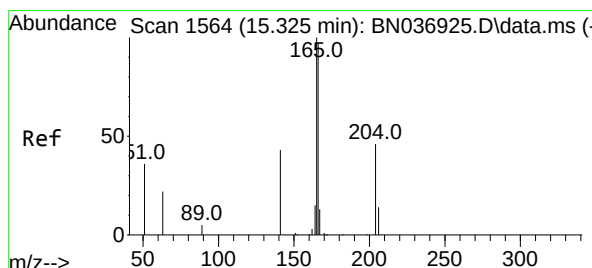
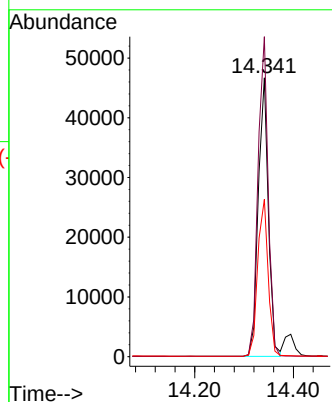
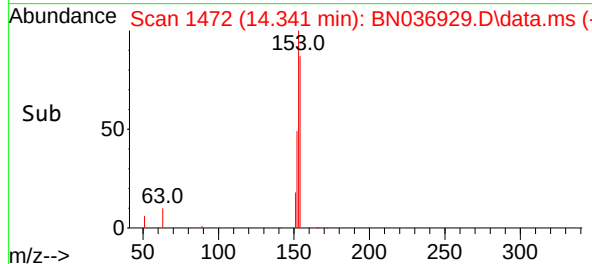
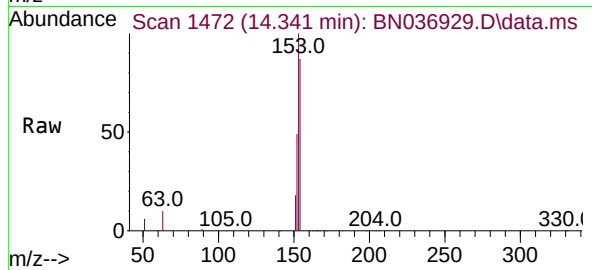




#17
Acenaphthene
Concen: 5.093 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

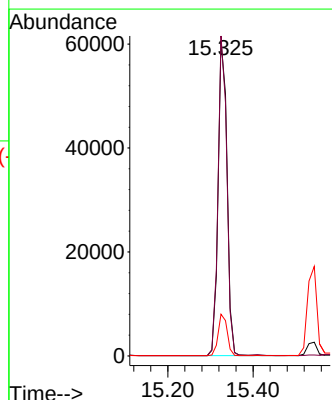
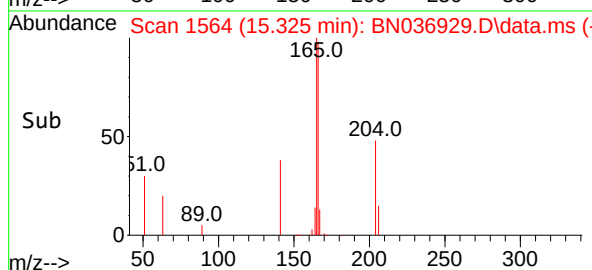
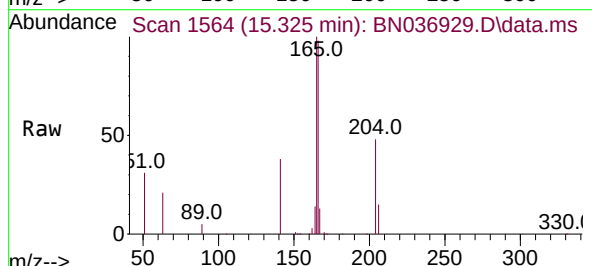
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

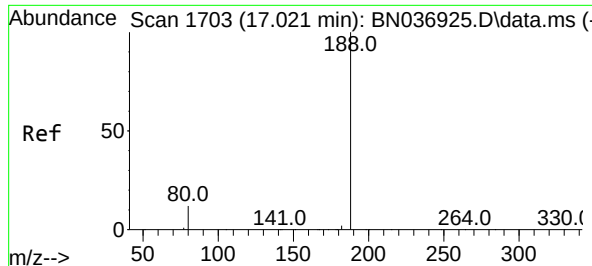
Tgt Ion:154 Resp: 65801
Ion Ratio Lower Upper
154 100
153 115.8 93.4 140.2
152 58.6 49.5 74.3



#18
Fluorene
Concen: 5.254 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:166 Resp: 88362
Ion Ratio Lower Upper
166 100
165 99.7 80.8 121.2
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

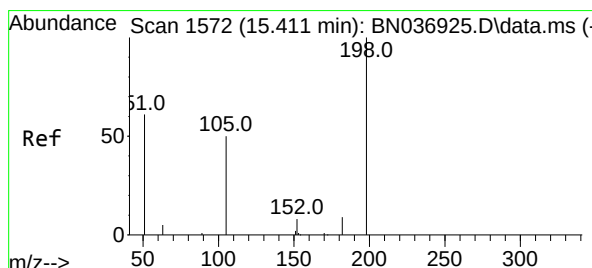
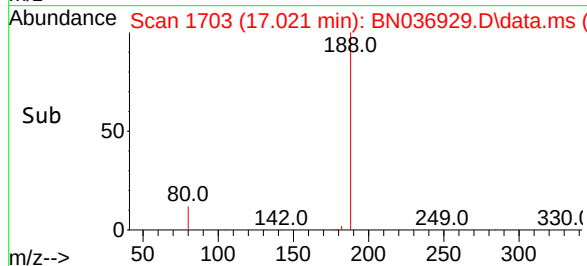
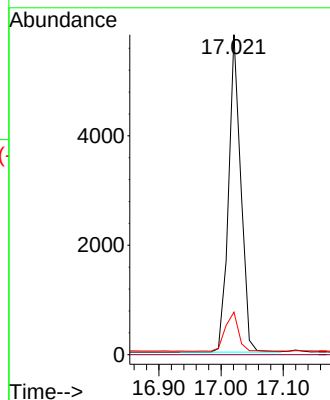
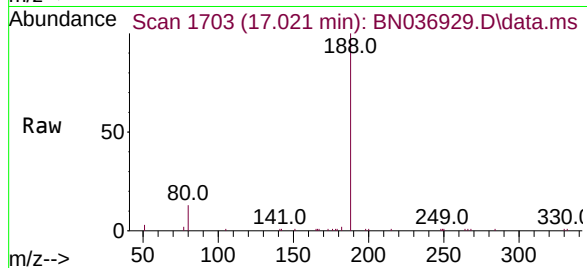
Tgt Ion:188 Resp: 7924

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.3 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 6.700 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

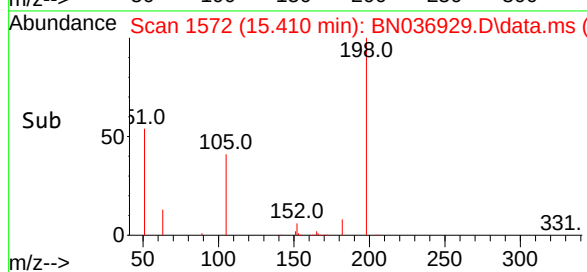
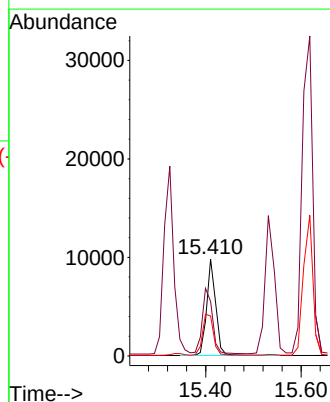
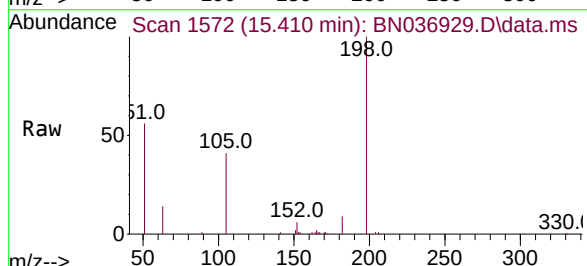
Tgt Ion:198 Resp: 13303

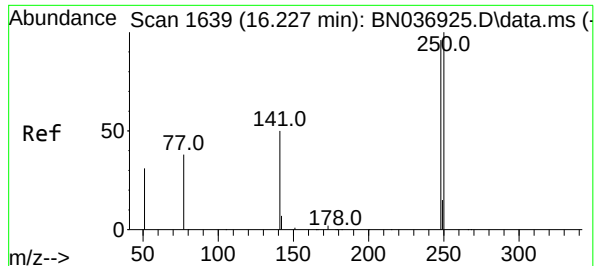
Ion Ratio Lower Upper

198 100

51 56.3 97.9 146.9#

105 41.2 50.0 75.0#

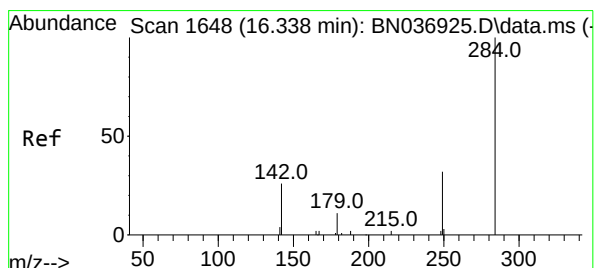
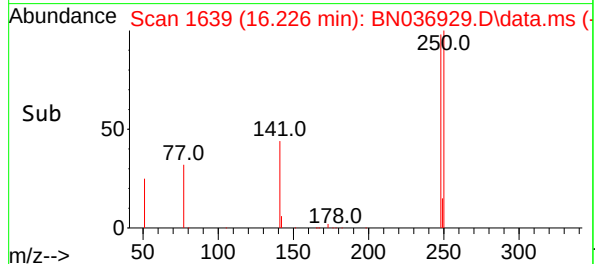
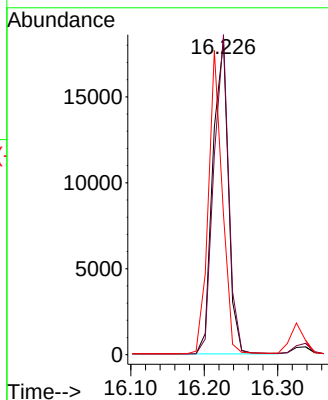
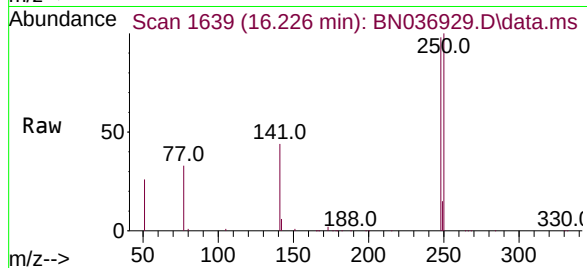




#21
4-Bromophenyl-phenylether
Concen: 5.074 ng
RT: 16.226 min Scan# 1639
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

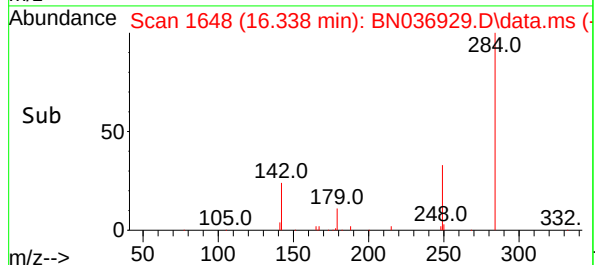
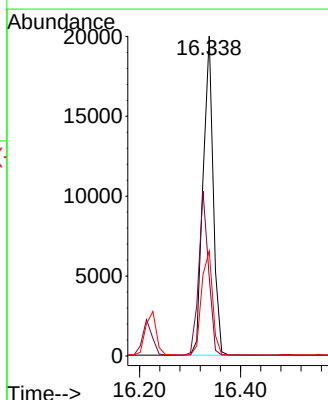
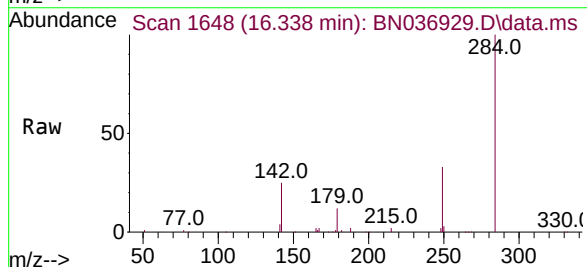
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

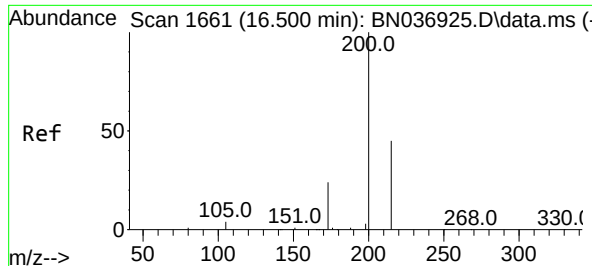
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.1	83.7	125.5
141	44.7	43.8	65.8



#22
Hexachlorobenzene
Concen: 4.793 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion	Ratio	Lower	Upper
284	100		
142	49.9	40.0	60.0
249	35.8	28.2	42.2





#23

Atrazine

Concen: 5.893 ng

RT: 16.499 min Scan# 1661

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

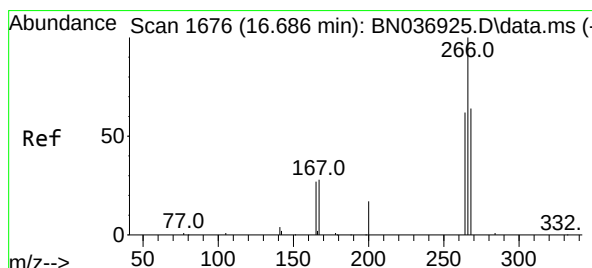
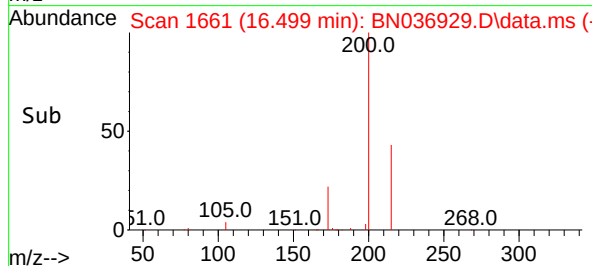
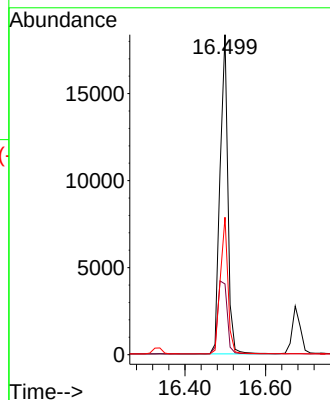
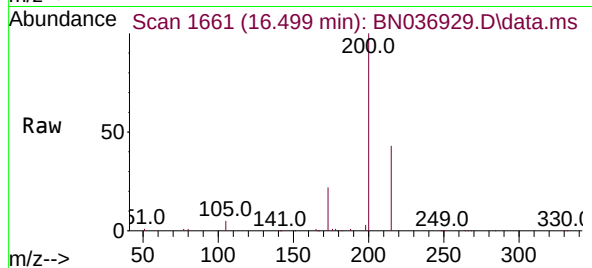
Tgt Ion:200 Resp: 24525

Ion Ratio Lower Upper

200 100

173 22.1 22.4 33.6#

215 42.9 38.6 57.8



#24

Pentachlorophenol

Concen: 5.937 ng

RT: 16.673 min Scan# 1675

Delta R.T. -0.013 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

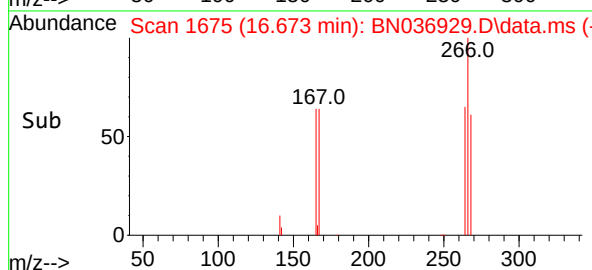
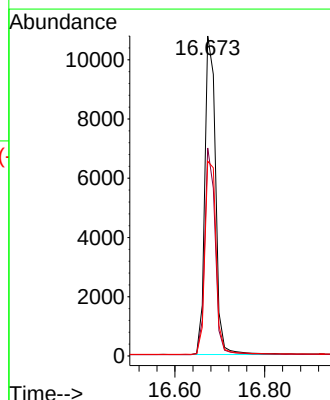
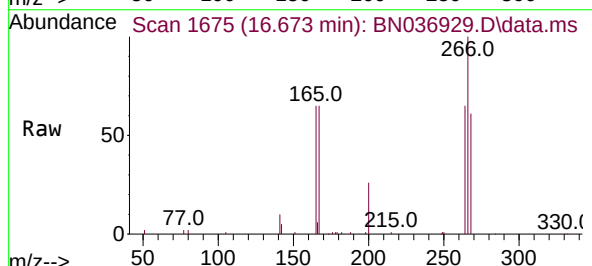
Tgt Ion:266 Resp: 17963

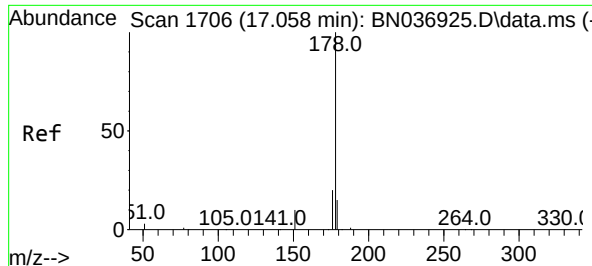
Ion Ratio Lower Upper

266 100

264 62.6 49.9 74.9

268 63.3 52.2 78.4

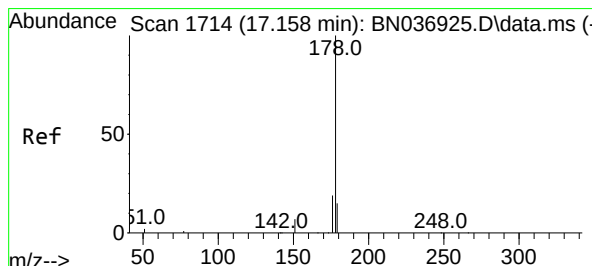
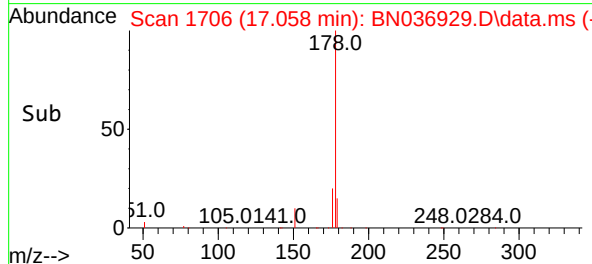
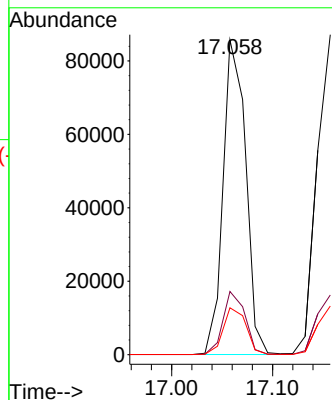
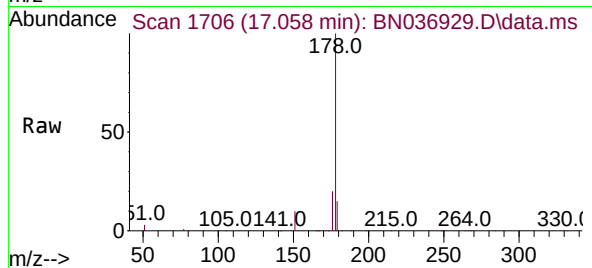




#25
Phenanthrene
Concen: 5.119 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

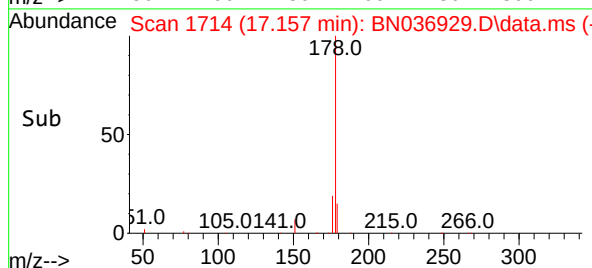
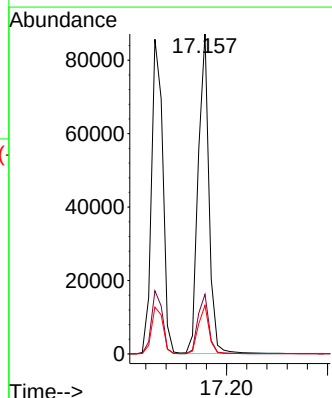
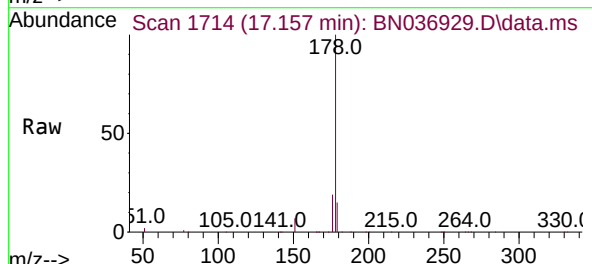
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

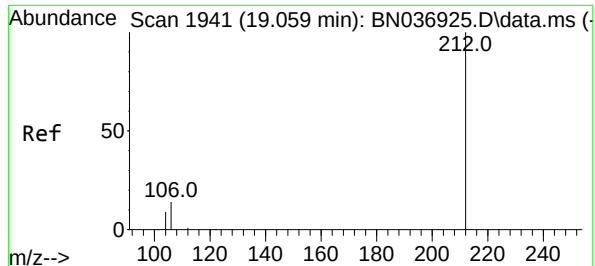
Tgt Ion:178 Resp: 133437
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.0 12.4 18.6



#26
Anthracene
Concen: 5.520 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:178 Resp: 128680
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.0 12.1 18.1





#27

Fluoranthene-d10

Concen: 5.447 ng

RT: 19.058 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

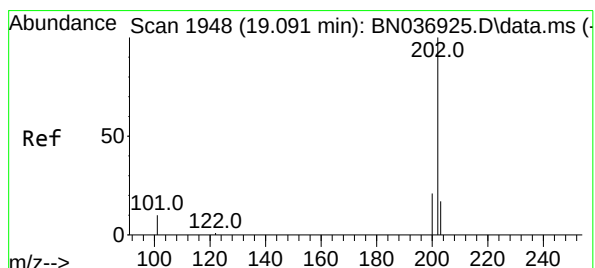
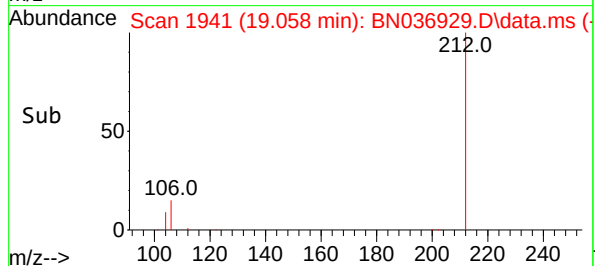
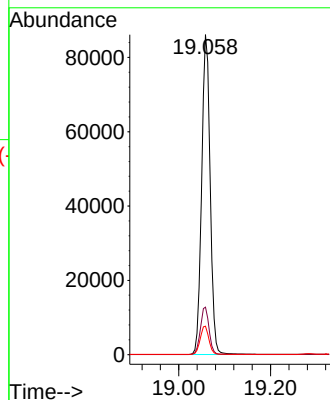
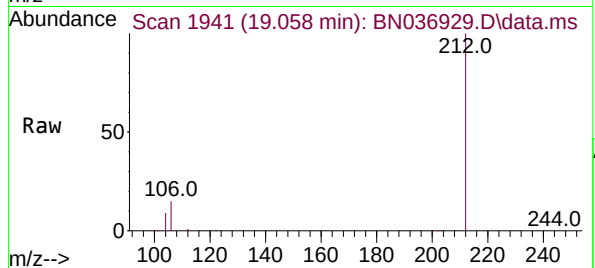
Tgt Ion:212 Resp: 110482

Ion Ratio Lower Upper

212 100

106 15.0 11.6 17.4

104 9.0 7.0 10.4



#28

Fluoranthene

Concen: 5.533 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

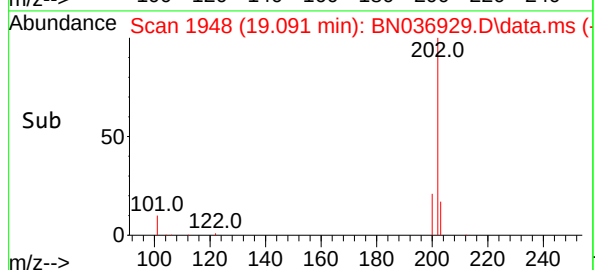
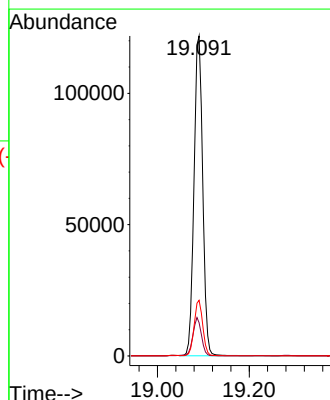
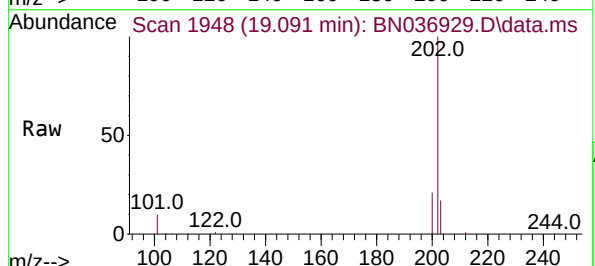
Tgt Ion:202 Resp: 159754

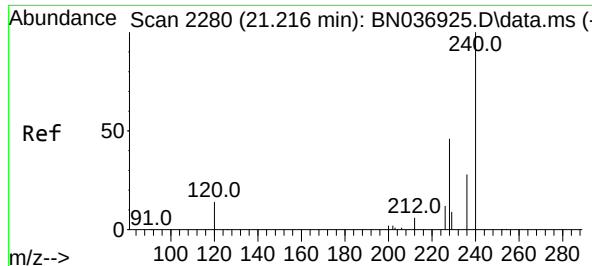
Ion Ratio Lower Upper

202 100

101 11.7 8.5 12.7

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

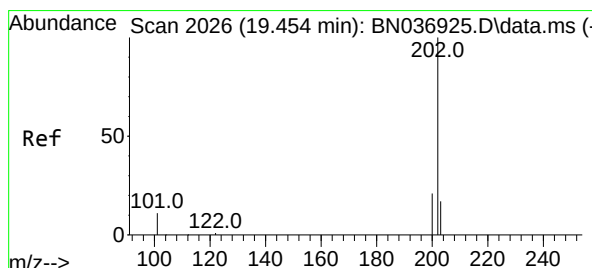
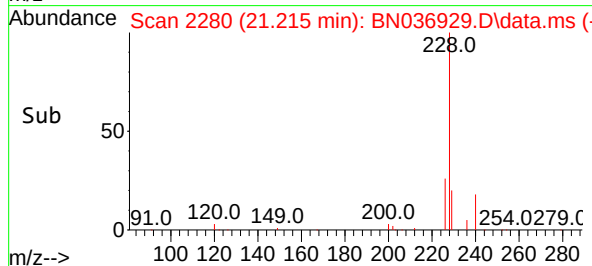
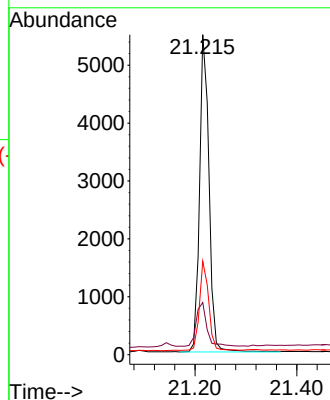
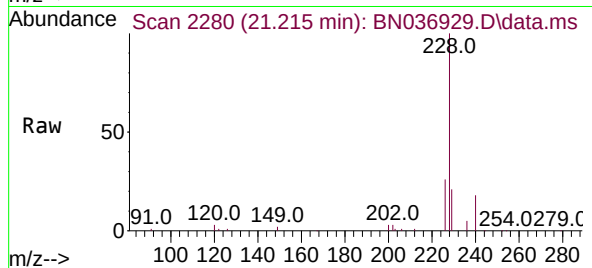
Tgt Ion:240 Resp: 7034

Ion Ratio Lower Upper

240 100

120 16.3 14.1 21.1

236 29.2 23.8 35.8



#30

Pyrene

Concen: 4.691 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

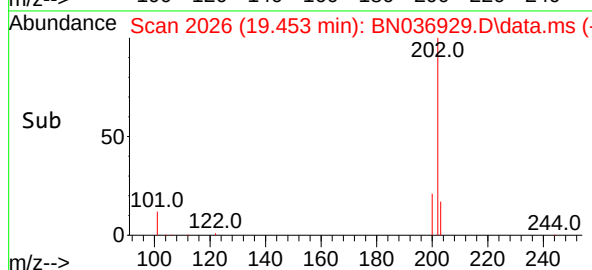
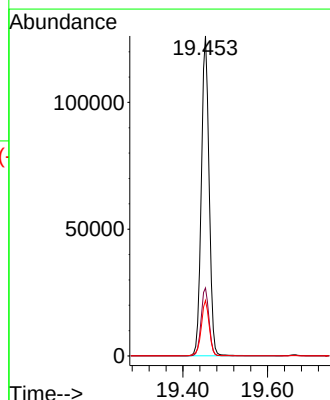
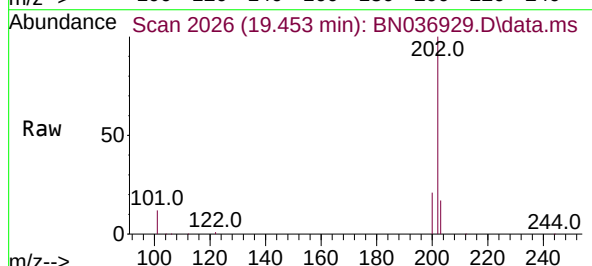
Tgt Ion:202 Resp: 160324

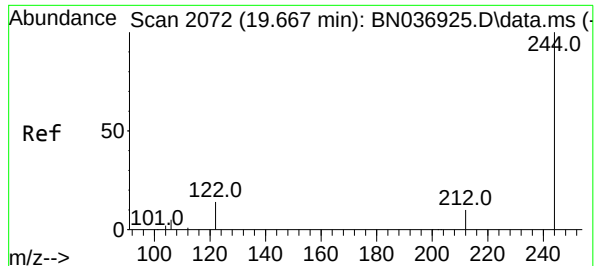
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.7 14.0 21.0

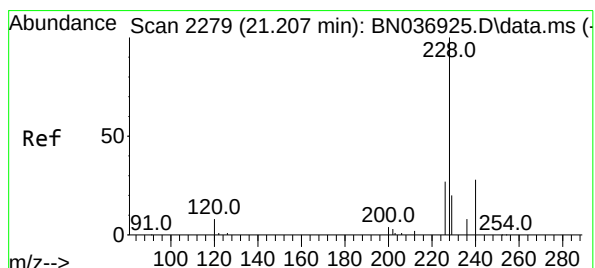
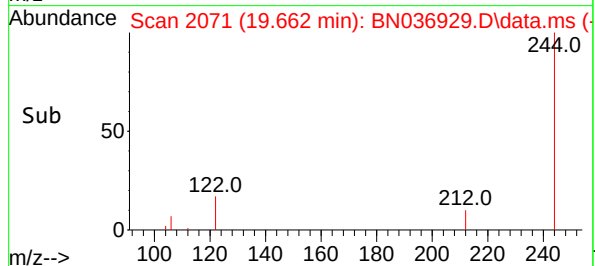
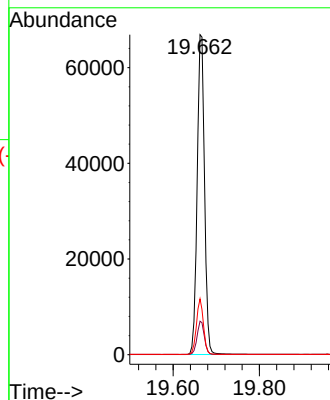
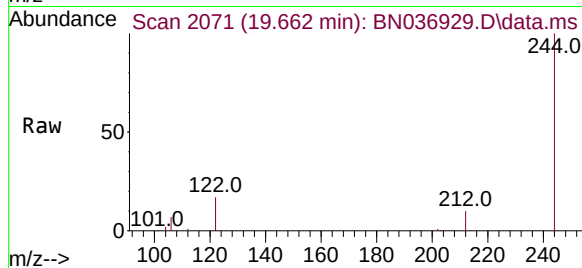




#31
Terphenyl-d14
Concen: 4.712 ng
RT: 19.662 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

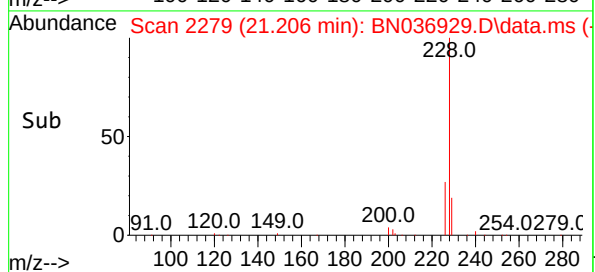
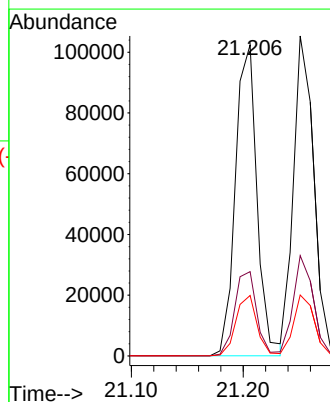
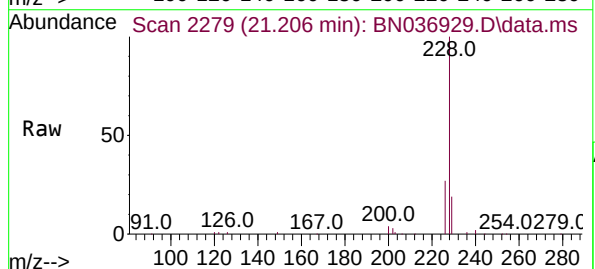
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

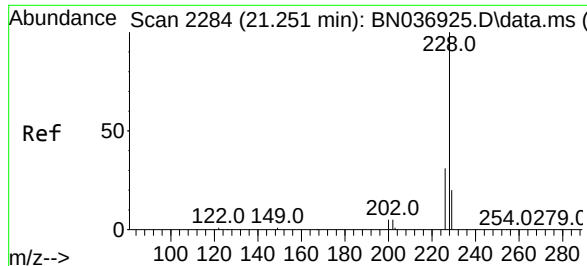
Tgt Ion:244 Resp: 78873
Ion Ratio Lower Upper
244 100
212 10.5 9.6 14.4
122 17.4 12.7 19.1



#32
Benzo(a)anthracene
Concen: 5.349 ng
RT: 21.206 min Scan# 2279
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:228 Resp: 137209
Ion Ratio Lower Upper
228 100
226 27.1 22.2 33.4
229 19.4 16.4 24.6





#33

Chrysene

Concen: 4.807 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

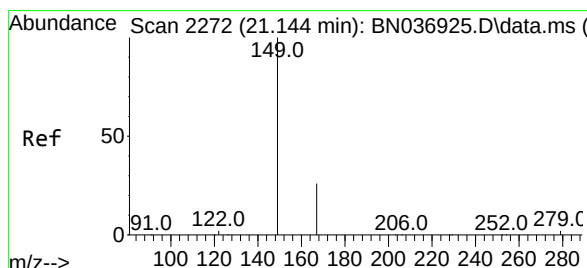
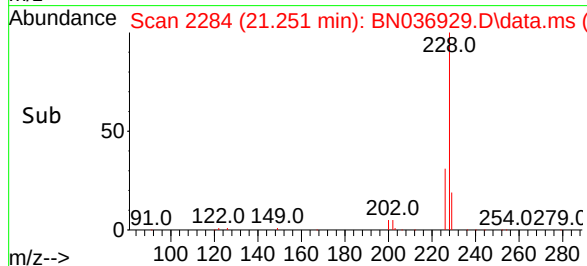
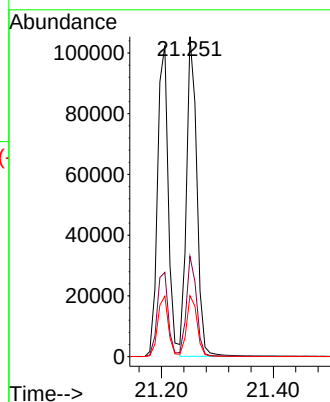
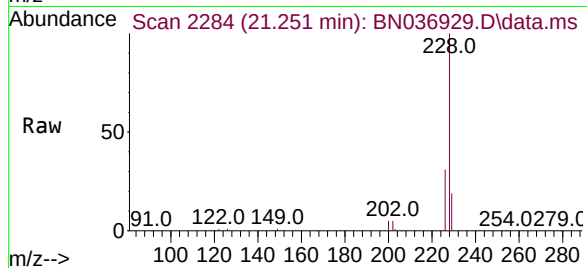
Tgt Ion:228 Resp: 135038

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 19.1 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.194 ng

RT: 21.143 min Scan# 2272

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

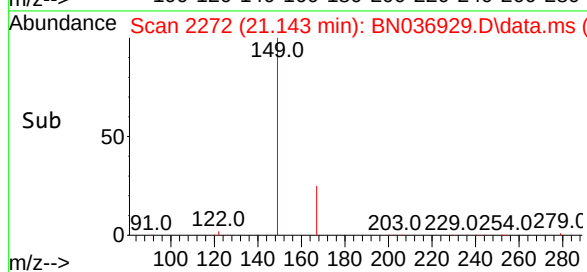
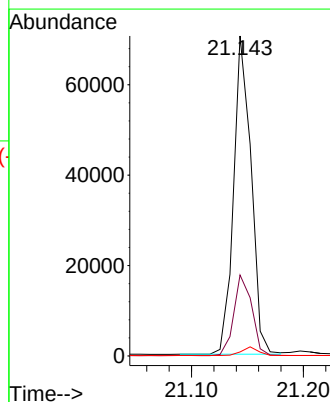
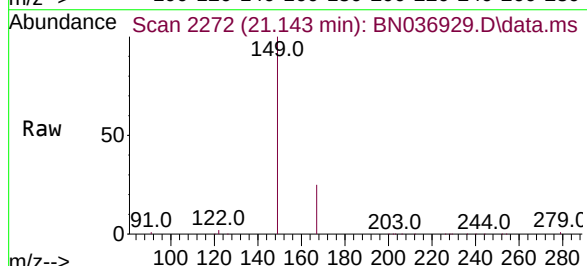
Tgt Ion:149 Resp: 76115

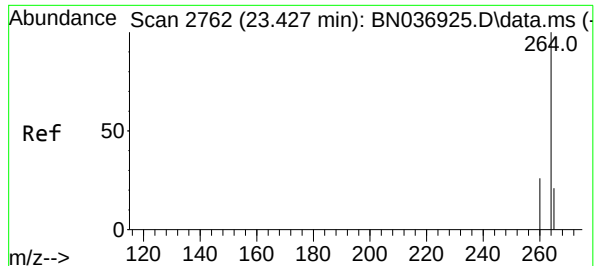
Ion Ratio Lower Upper

149 100

167 26.0 21.0 31.6

279 2.6 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN036929.D

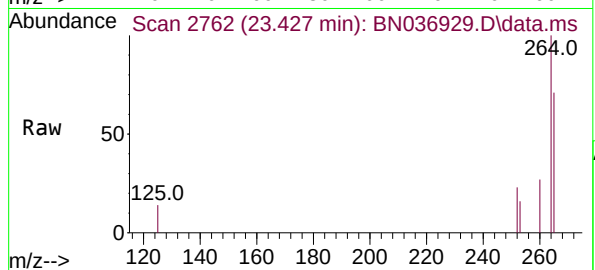
Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



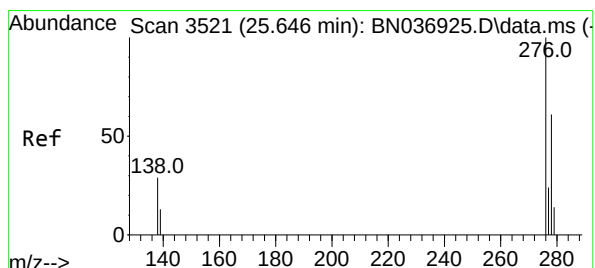
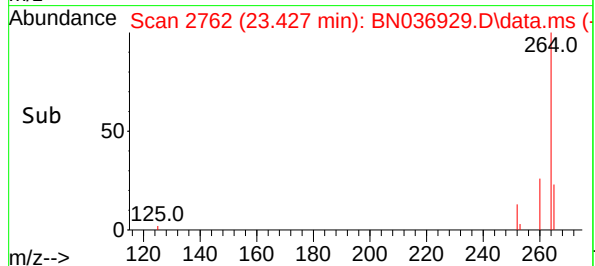
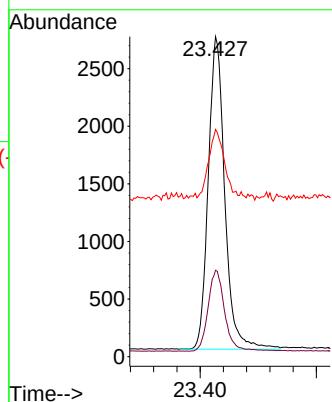
Tgt Ion:264 Resp: 5350

Ion	Ratio	Lower	Upper

264	100		

260	27.0	22.2	33.2

265	71.0	65.8	98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 4.911 ng

RT: 25.649 min Scan# 3522

Delta R.T. 0.002 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

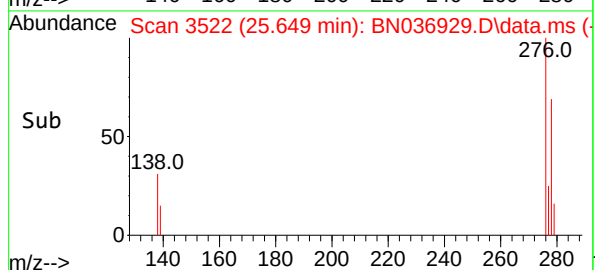
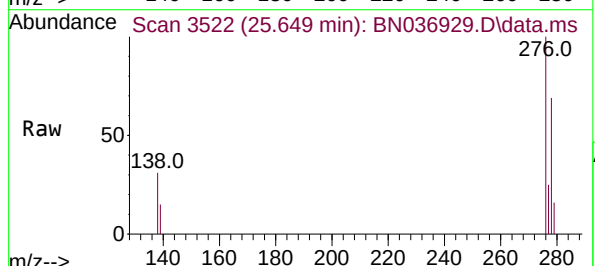
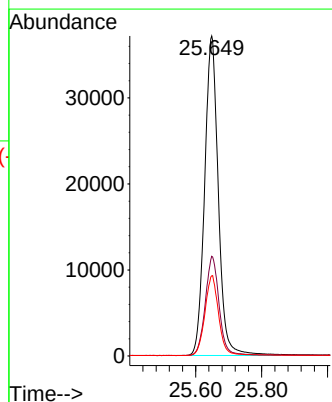
Tgt Ion:276 Resp: 107583

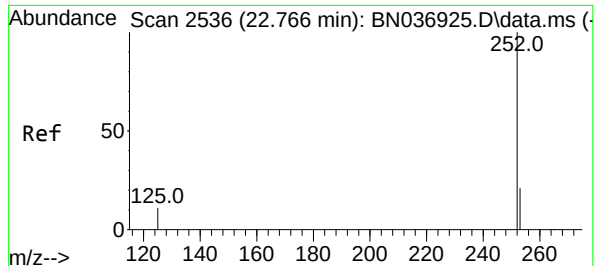
Ion	Ratio	Lower	Upper

276	100		

138	31.3	23.0	34.6

277	25.0	20.0	30.0





#37

Benzo(b)fluoranthene

Concen: 5.504 ng

RT: 22.766 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

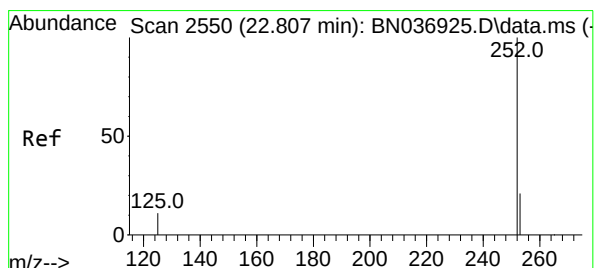
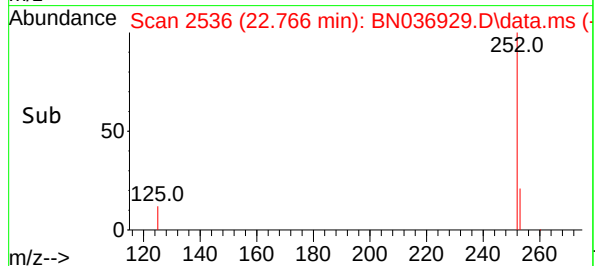
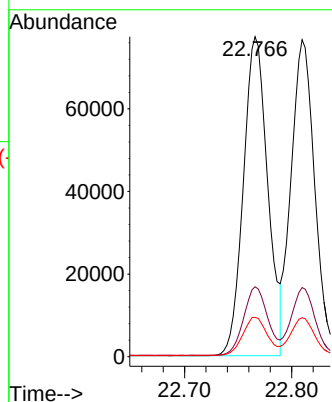
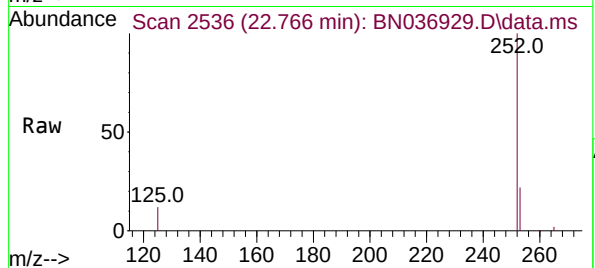
Tgt Ion:252 Resp: 122058

Ion Ratio Lower Upper

252 100

253 21.9 22.1 33.1#

125 12.3 14.2 21.2#



#38

Benzo(k)fluoranthene

Concen: 5.325 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.002 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

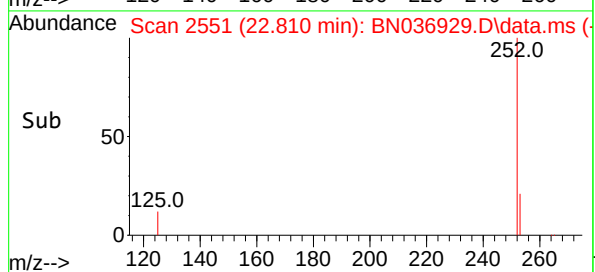
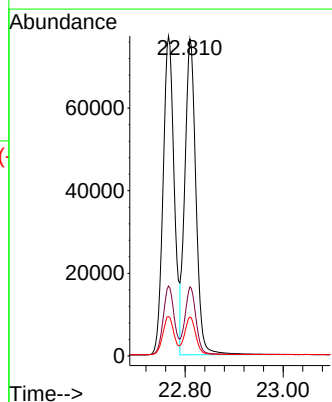
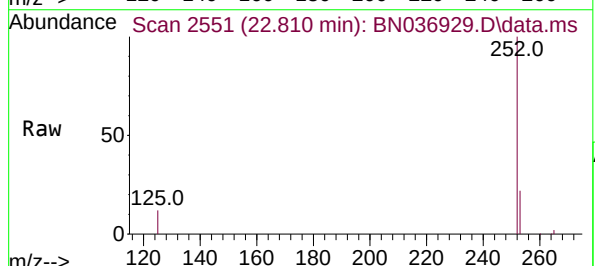
Tgt Ion:252 Resp: 119359

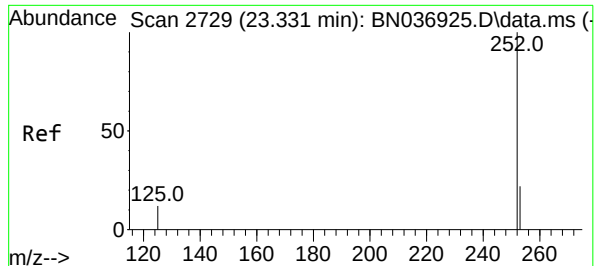
Ion Ratio Lower Upper

252 100

253 21.8 22.8 34.2#

125 12.3 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 5.402 ng

RT: 23.333 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN036929.D

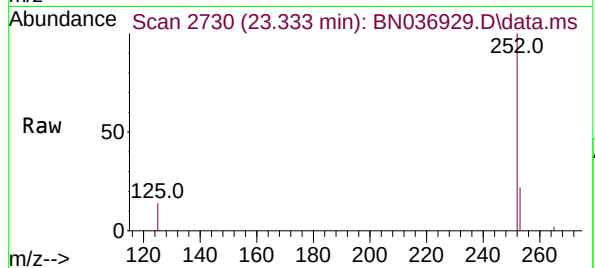
Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



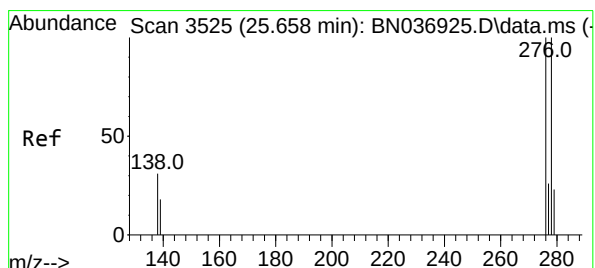
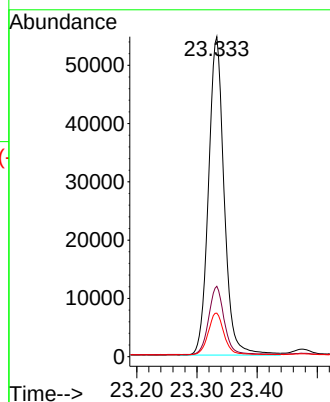
Tgt Ion:252 Resp: 98753

Ion Ratio Lower Upper

252 100

253 22.0 25.9 38.9#

125 13.6 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 4.920 ng

RT: 25.660 min Scan# 3526

Delta R.T. 0.002 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

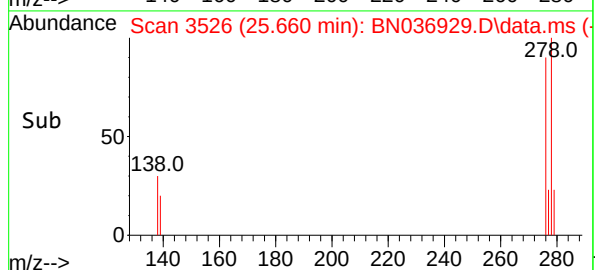
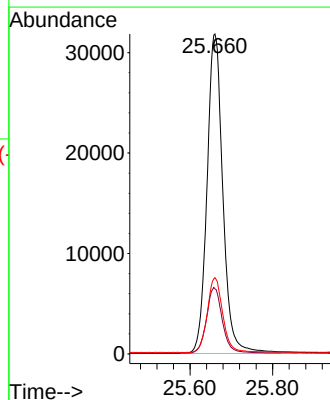
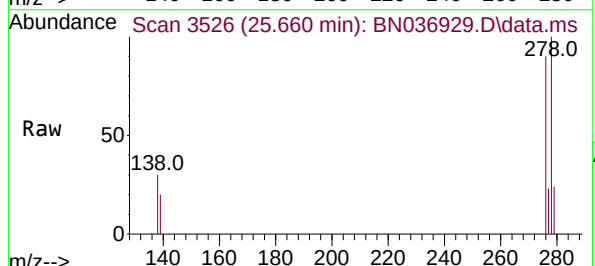
Tgt Ion:278 Resp: 84789

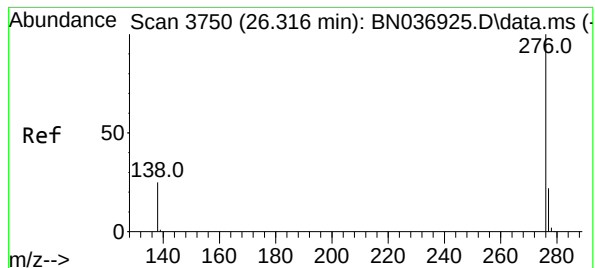
Ion Ratio Lower Upper

278 100

139 20.4 17.4 26.2

279 23.8 24.9 37.3#





#41

Benzo(g,h,i)perylene

Concen: 4.643 ng

RT: 26.324 min Scan# 31

Delta R.T. 0.008 min

Lab File: BN036929.D

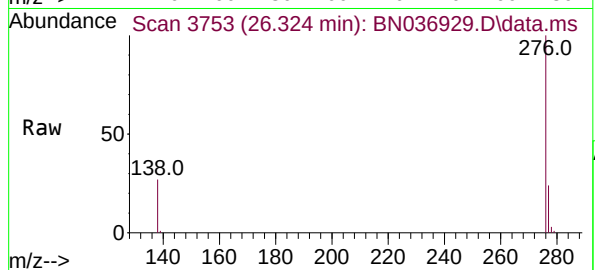
Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



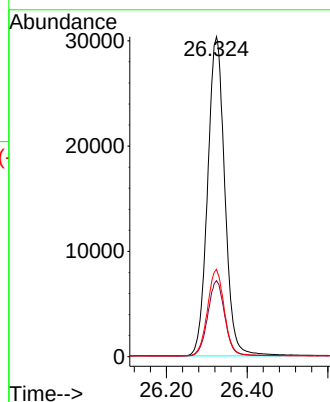
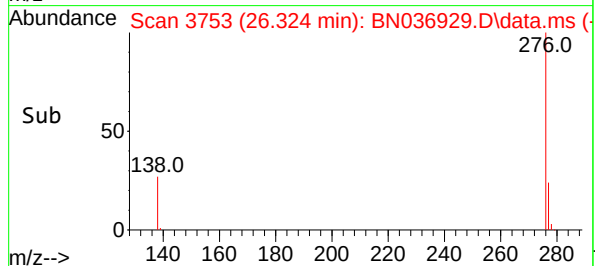
Tgt Ion:276 Resp: 89523

Ion Ratio Lower Upper

276 100

277 23.7 20.2 30.2

138 27.3 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036930.D
 Acq On : 28 Apr 2025 15:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN042825

Quant Time: Apr 28 18:00:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

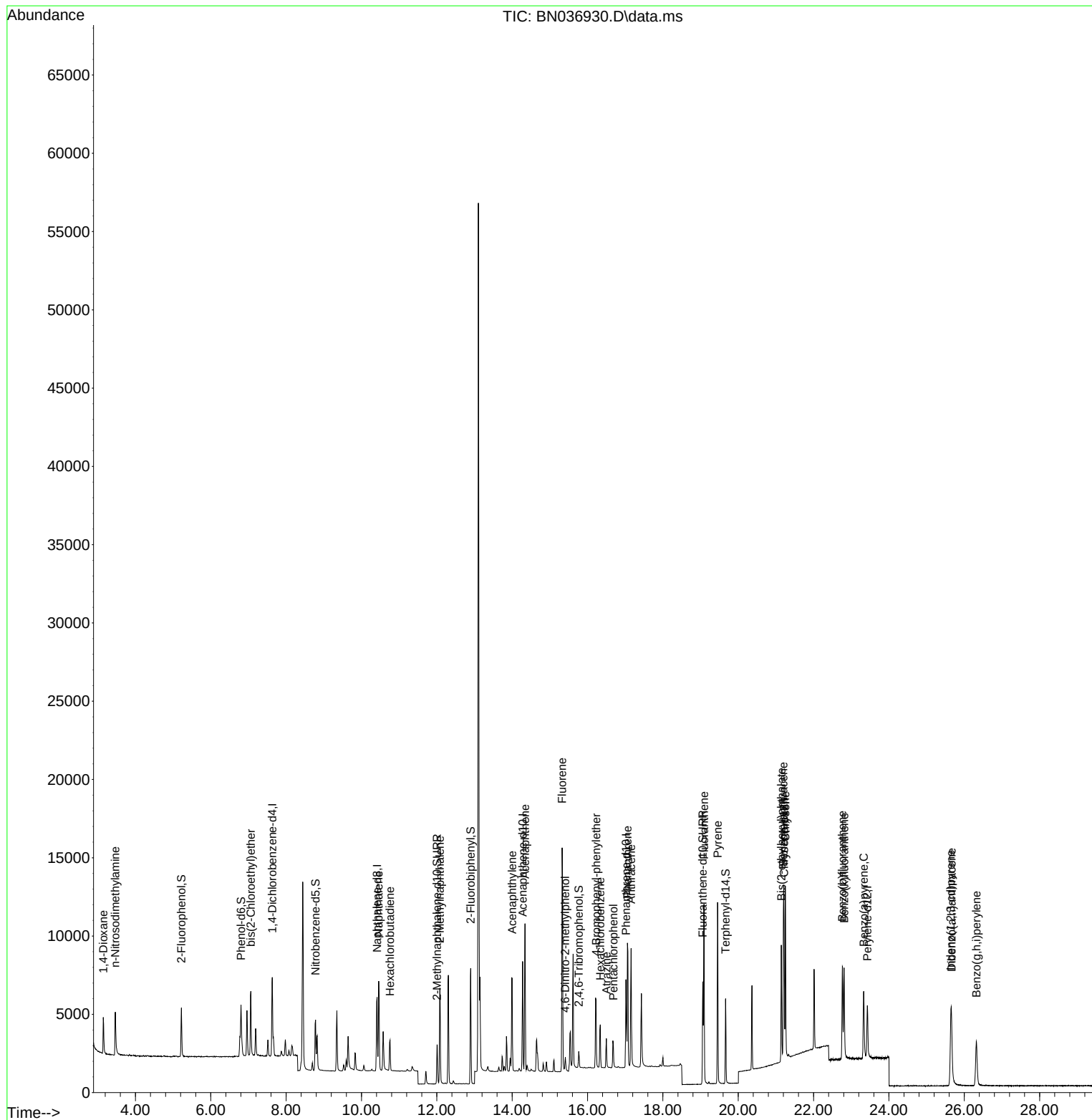
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2409	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6199	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3595	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	7165	0.400	ng	0.00
29) Chrysene-d12	21.215	240	5561	0.400	ng	0.00
35) Perylene-d12	23.427	264	4453	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	2200	0.357	ng	0.00
5) Phenol-d6	6.802	99	2639	0.348	ng	0.00
8) Nitrobenzene-d5	8.781	82	2643	0.408	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	3565	0.411	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	524	0.327	ng	0.00
15) 2-Fluorobiphenyl	12.898	172	6791	0.391	ng	0.00
27) Fluoranthene-d10	19.059	212	7362	0.396	ng	0.00
31) Terphenyl-d14	19.667	244	5345	0.407	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.148	88	1307	0.435	ng	96
3) n-Nitrosodimethylamine	3.465	42	2382	0.409	ng	# 98
6) bis(2-Chloroethyl)ether	7.062	93	2960	0.421	ng	97
9) Naphthalene	10.458	128	7201	0.399	ng	100
10) Hexachlorobutadiene	10.757	225	1616	0.414	ng	# 98
12) 2-Methylnaphthalene	12.082	142	4278	0.367	ng	100
16) Acenaphthylene	13.999	152	7225	0.411	ng	100
17) Acenaphthene	14.341	154	4406	0.382	ng	100
18) Fluorene	15.325	166	5893	0.390	ng	100
20) 4,6-Dinitro-2-methylph...	15.410	198	612	0.323	ng	91
21) 4-Bromophenyl-phenylether	16.227	248	1798	0.376	ng	96
22) Hexachlorobenzene	16.338	284	2026	0.387	ng	99
23) Atrazine	16.500	200	1554	0.403	ng	99
24) Pentachlorophenol	16.686	266	885	0.315	ng	99
25) Phenanthrene	17.058	178	9212	0.390	ng	100
26) Anthracene	17.157	178	8400	0.393	ng	100
28) Fluoranthene	19.091	202	10081	0.380	ng	99
30) Pyrene	19.453	202	10076	0.376	ng	100
32) Benzo(a)anthracene	21.197	228	8105	0.396	ng	98
33) Chrysene	21.251	228	8947	0.405	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	4190	0.360	ng	99
36) Indeno(1,2,3-cd)pyrene	25.640	276	6626	0.364	ng	99
37) Benzo(b)fluoranthene	22.763	252	7283	0.389	ng	99
38) Benzo(k)fluoranthene	22.810	252	7655	0.407	ng	98
39) Benzo(a)pyrene	23.330	252	6417	0.417	ng	97
40) Dibenzo(a,h)anthracene	25.663	278	5177	0.362	ng	99
41) Benzo(g,h,i)perylene	26.321	276	5705	0.359	ng	98

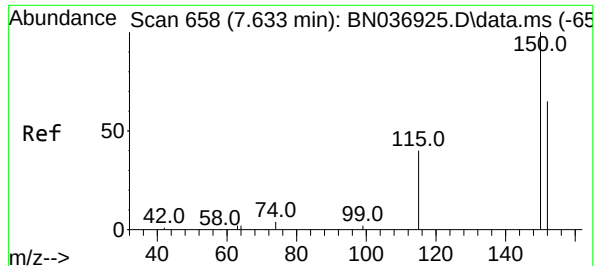
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036930.D
Acq On : 28 Apr 2025 15:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Quant Time: Apr 28 18:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

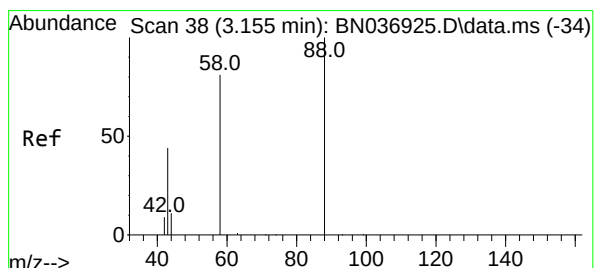
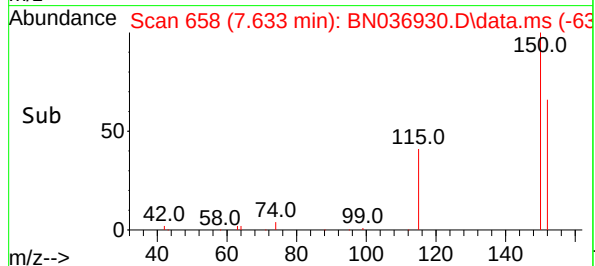
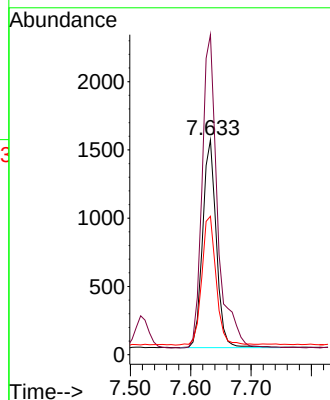
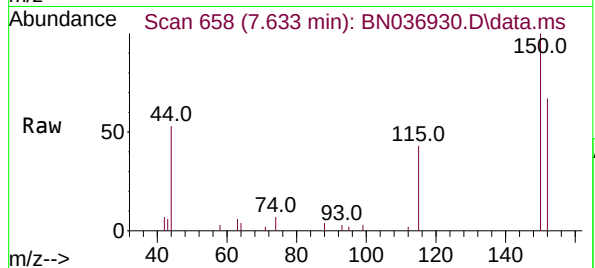




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

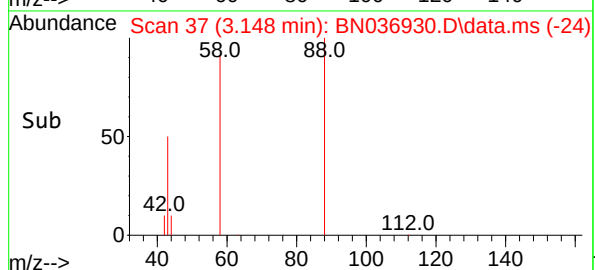
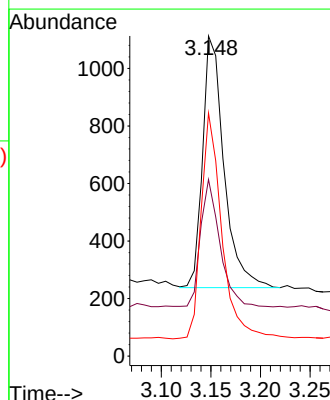
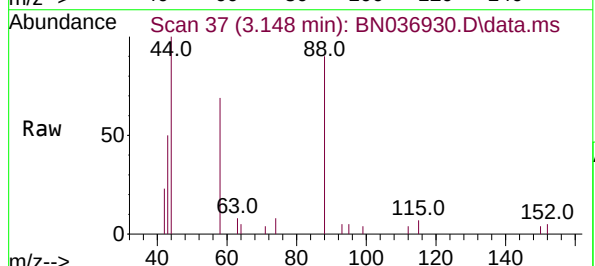
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

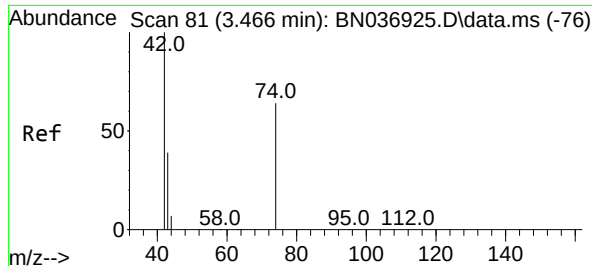
Tgt Ion:152 Resp: 2409
Ion Ratio Lower Upper
152 100
150 149.0 121.1 181.7
115 64.5 51.8 77.6



#2
1,4-Dioxane
Concen: 0.435 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion: 88 Resp: 1307
Ion Ratio Lower Upper
88 100
43 46.8 37.9 56.9
58 87.2 65.8 98.6

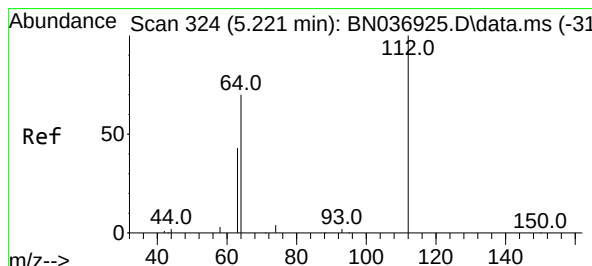
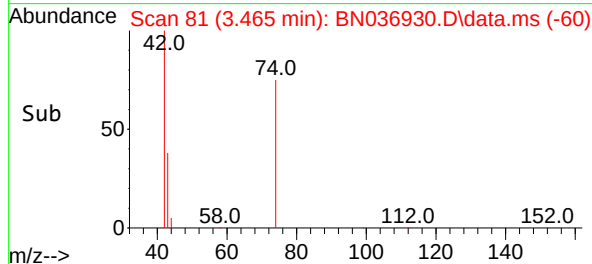
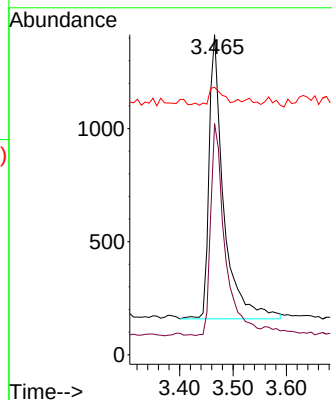
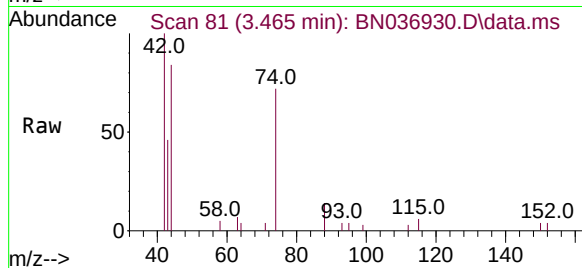




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

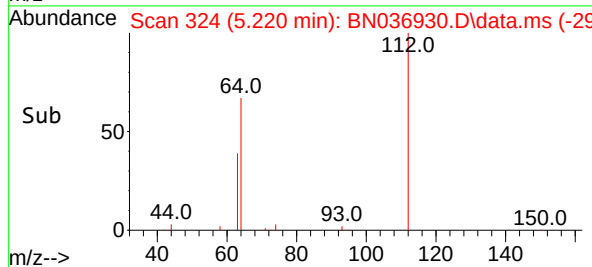
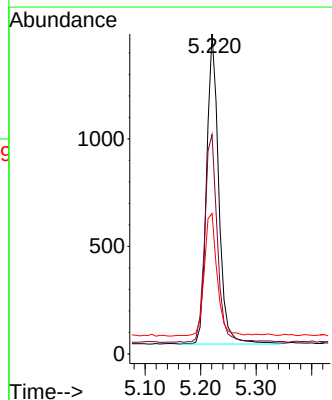
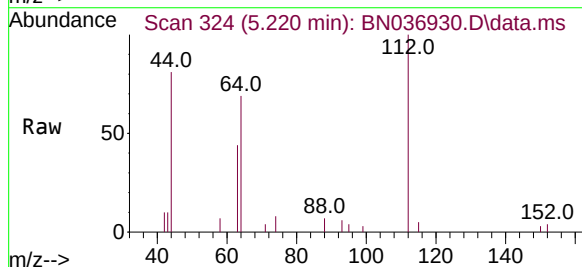
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

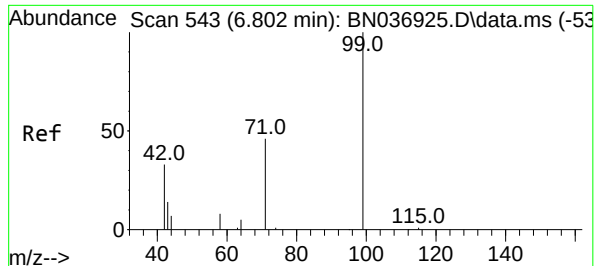
Tgt Ion: 42 Resp: 2382
Ion Ratio Lower Upper
42 100
74 73.5 59.9 89.9
44 6.3 7.5 11.3#



#4
2-Fluorophenol
Concen: 0.357 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion: 112 Resp: 2200
Ion Ratio Lower Upper
112 100
64 69.0 55.7 83.5
63 41.9 33.9 50.9

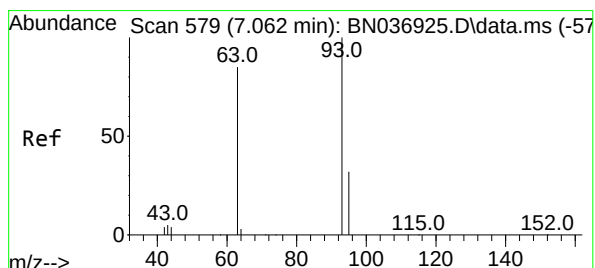
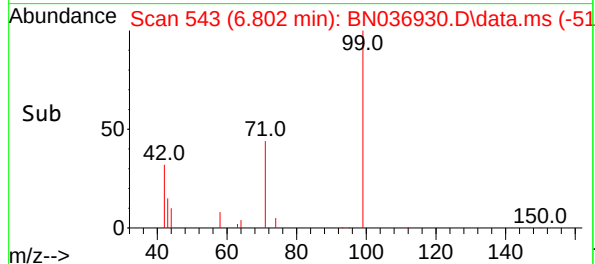
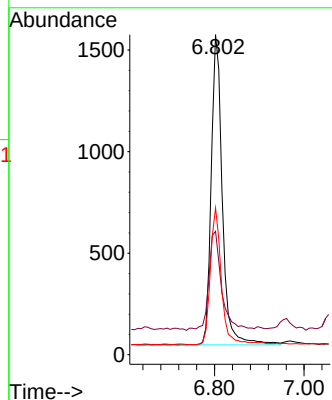
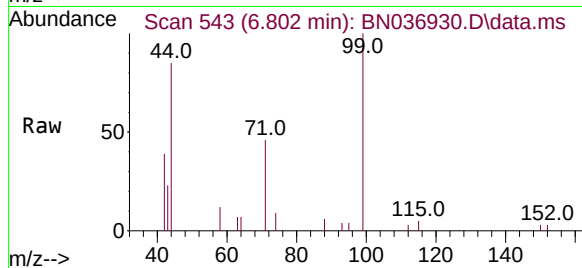




#5
Phenol-d6
Concen: 0.348 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

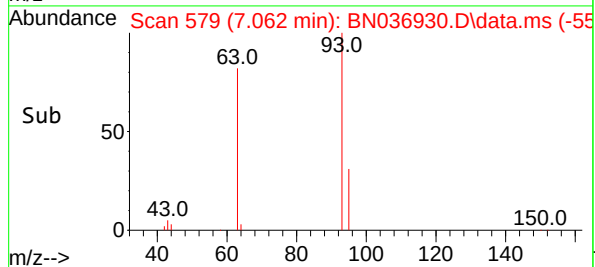
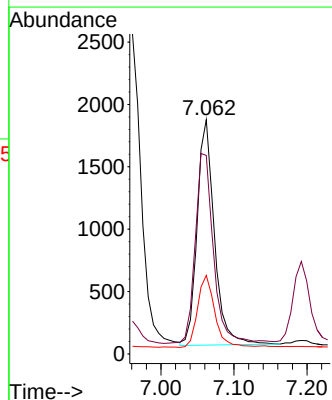
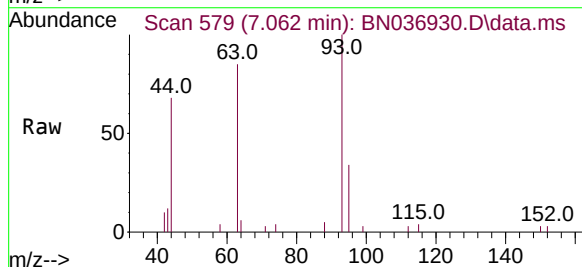
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

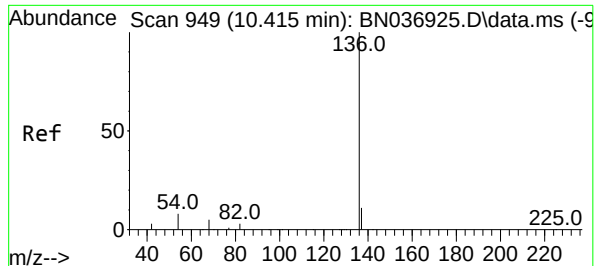
Tgt Ion:	99	Resp:	2639
Ion	Ratio	Lower	Upper
99	100		
42	36.9	29.6	44.4
71	43.1	36.0	54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.421 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:	93	Resp:	2960
Ion	Ratio	Lower	Upper
93	100		
63	89.5	69.0	103.6
95	31.8	25.4	38.0

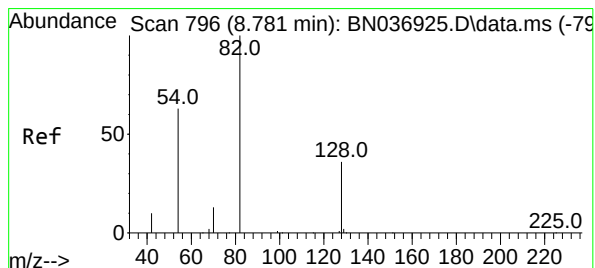
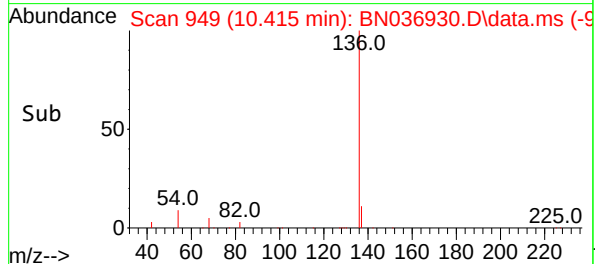
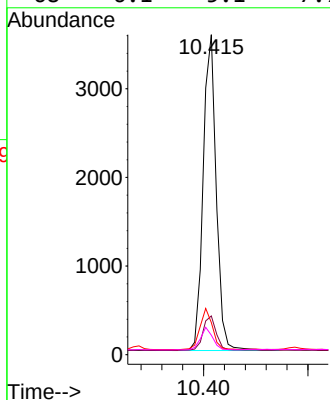
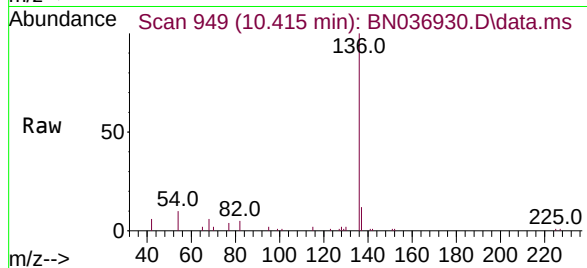




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

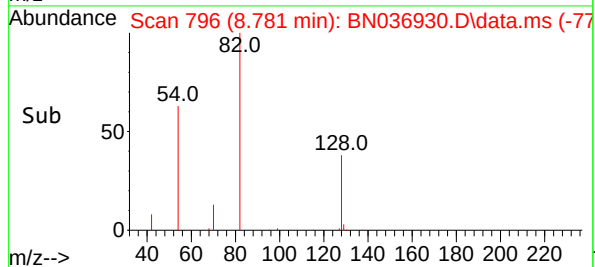
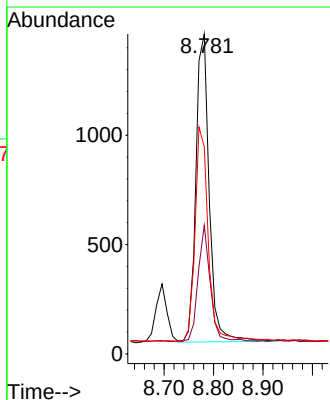
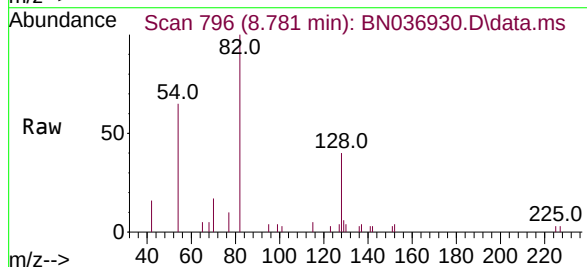
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

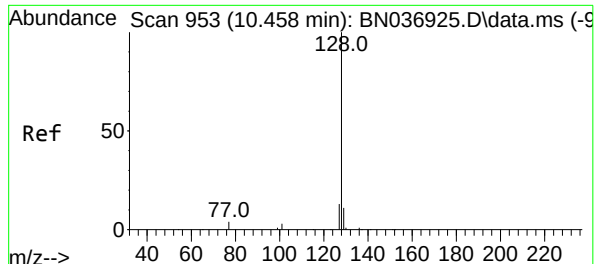
Tgt Ion:	136	Resp:	6199
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	10.1	8.0	12.0
68	6.1	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.408 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:	82	Resp:	2643
Ion	Ratio	Lower	Upper
82	100		
128	40.2	30.7	46.1
54	64.7	52.1	78.1





#9

Naphthalene

Concen: 0.399 ng

RT: 10.458 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

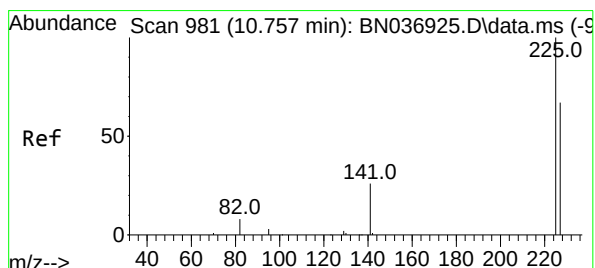
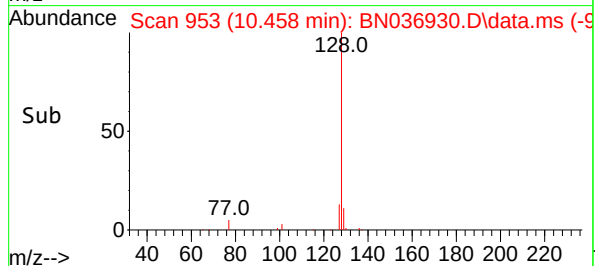
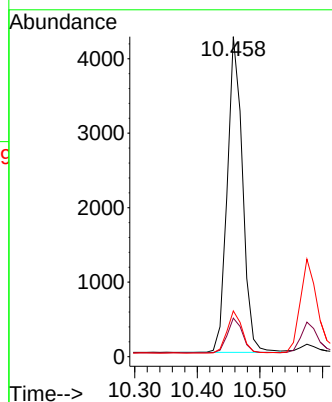
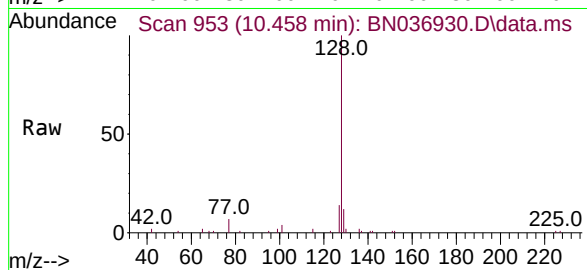
Tgt Ion:128 Resp: 7201

Ion Ratio Lower Upper

128 100

129 12.1 9.8 14.6

127 14.3 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.414 ng

RT: 10.757 min Scan# 981

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

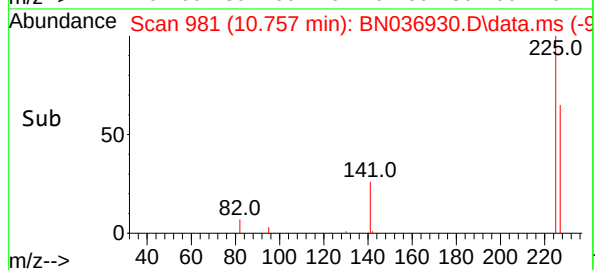
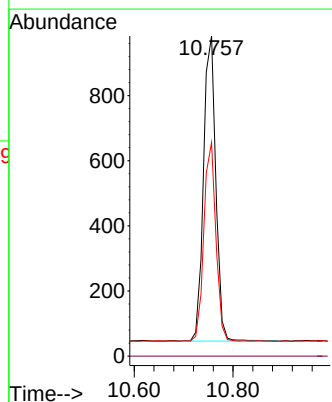
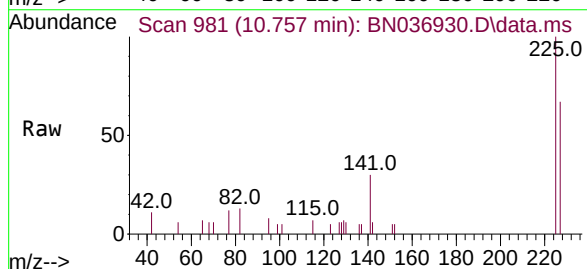
Tgt Ion:225 Resp: 1616

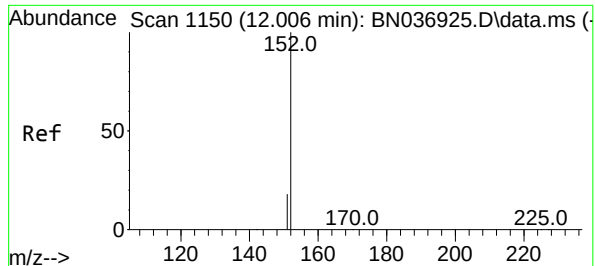
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.5 52.2 78.4

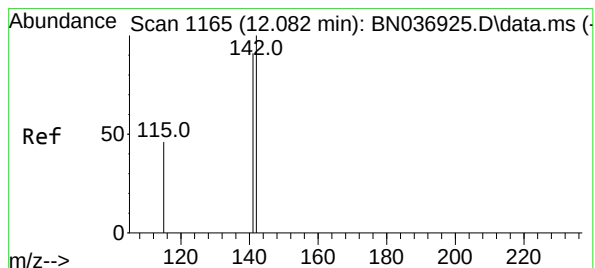
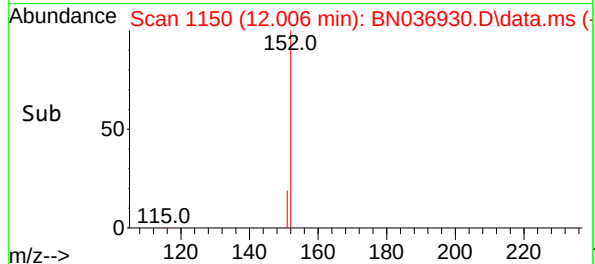
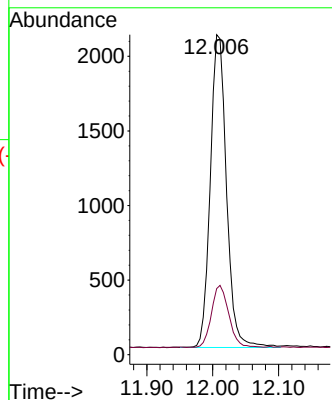
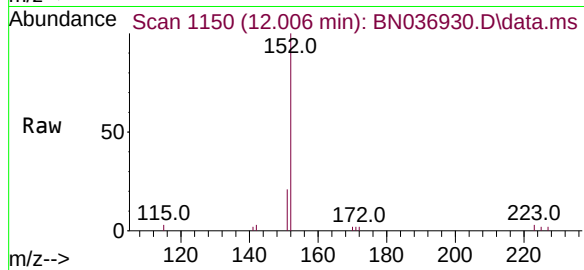




#11
2-Methylnaphthalene-d10
Concen: 0.411 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

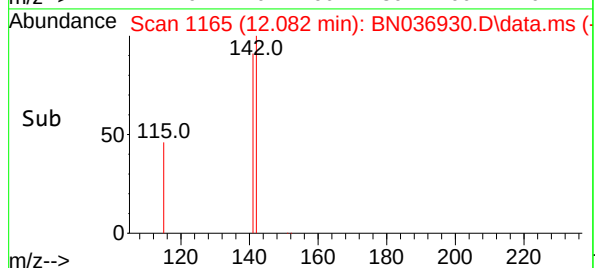
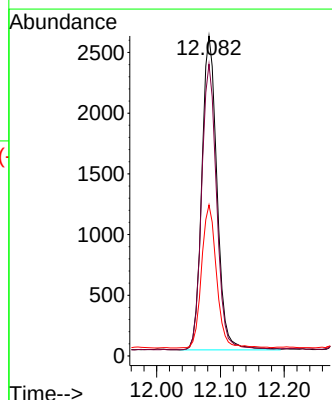
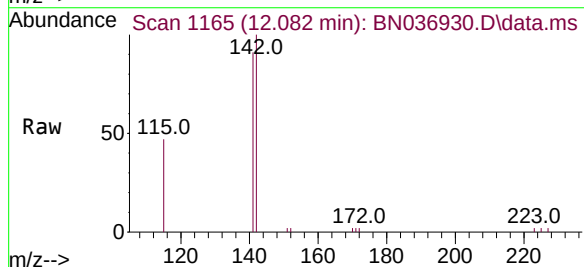
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

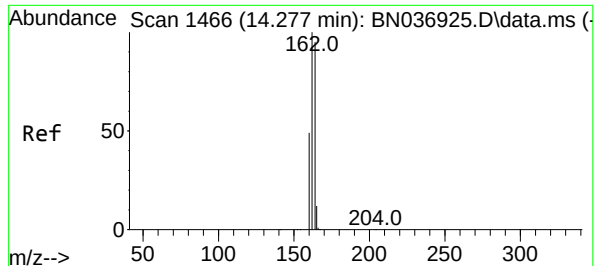
Tgt Ion:152 Resp: 3565
Ion Ratio Lower Upper
152 100
151 21.3 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.367 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:142 Resp: 4278
Ion Ratio Lower Upper
142 100
141 91.2 72.8 109.2
115 47.2 38.2 57.4

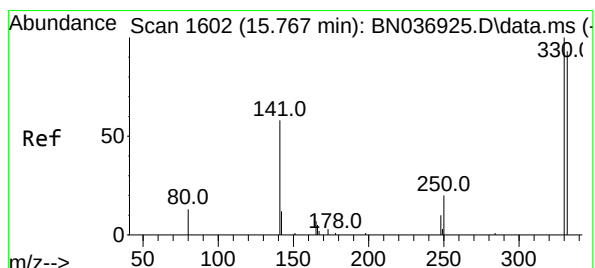
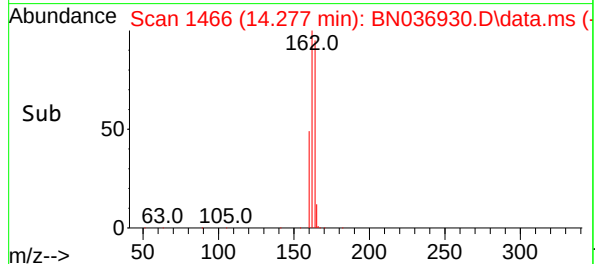
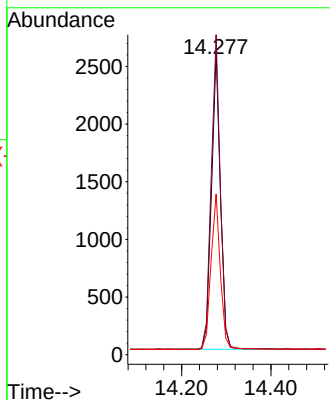
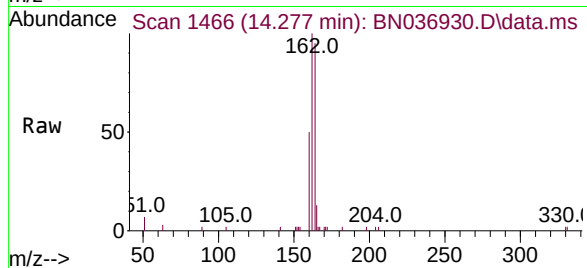




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

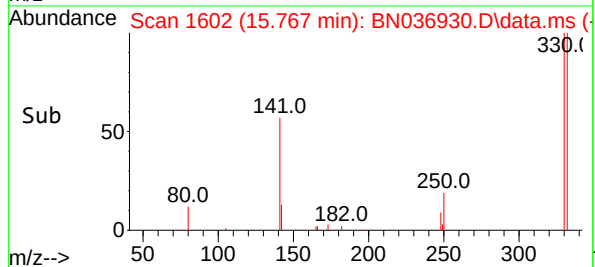
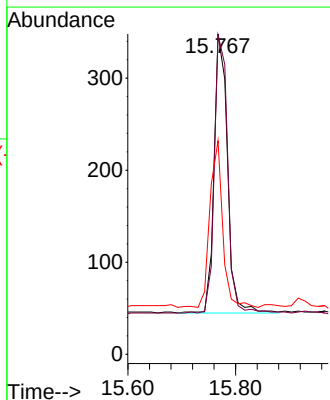
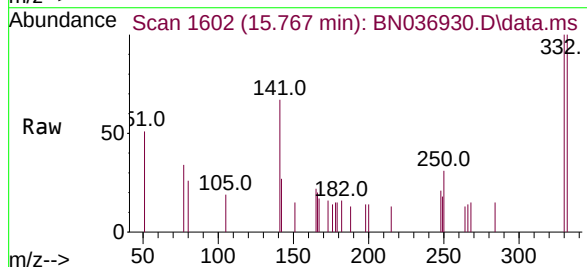
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

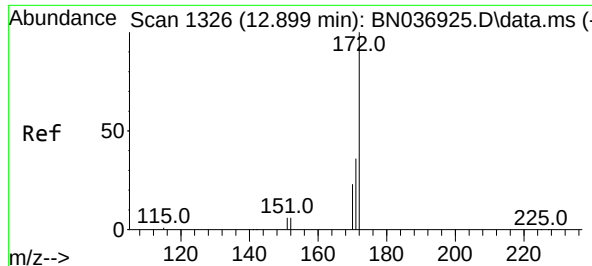
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.4	83.8	125.8
160	52.9	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 0.327 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.9	76.3	114.5
141	56.5	45.4	68.2





#15

2-Fluorobiphenyl

Concen: 0.391 ng

RT: 12.898 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

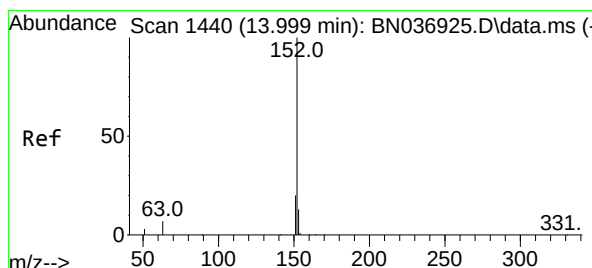
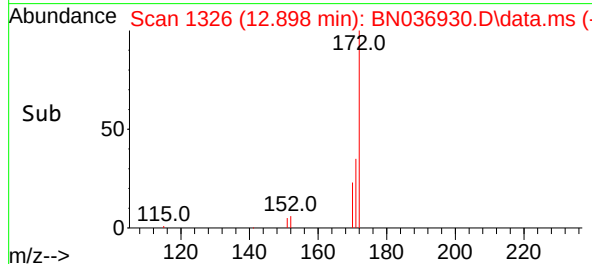
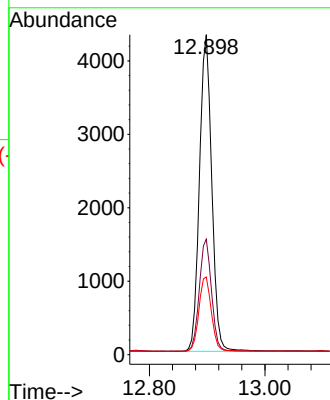
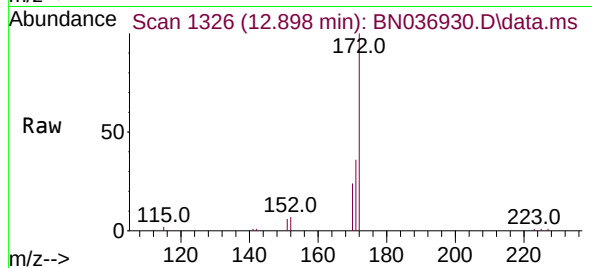
Tgt Ion:172 Resp: 6791

Ion Ratio Lower Upper

172 100

171 36.1 29.4 44.0

170 24.3 19.4 29.0



#16

Acenaphthylene

Concen: 0.411 ng

RT: 13.999 min Scan# 1440

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

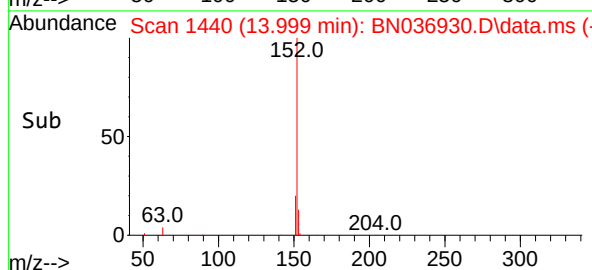
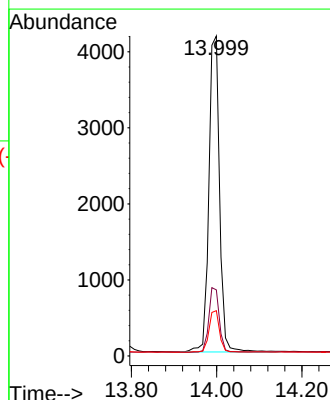
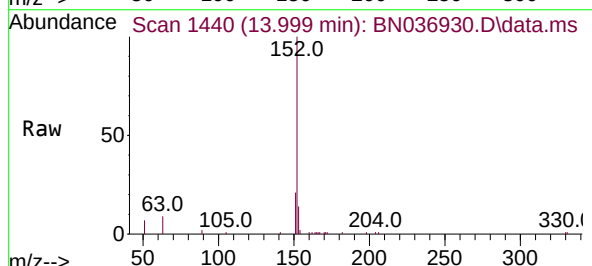
Tgt Ion:152 Resp: 7225

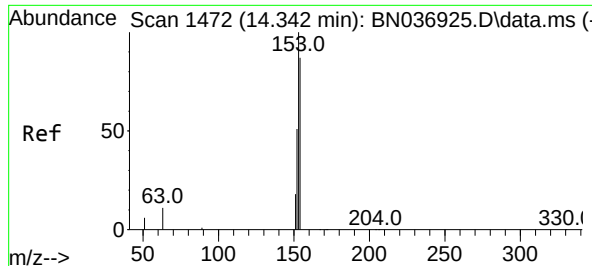
Ion Ratio Lower Upper

152 100

151 20.1 16.0 24.0

153 13.0 10.2 15.2





#17

Acenaphthene

Concen: 0.382 ng

RT: 14.341 min Scan# 1472

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

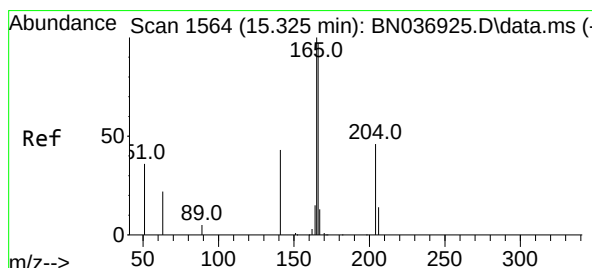
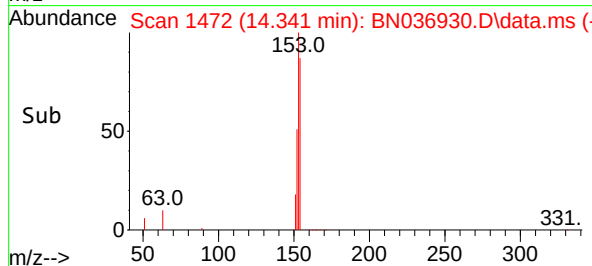
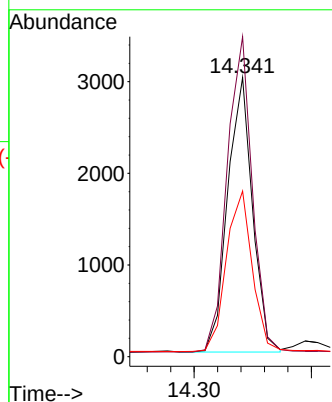
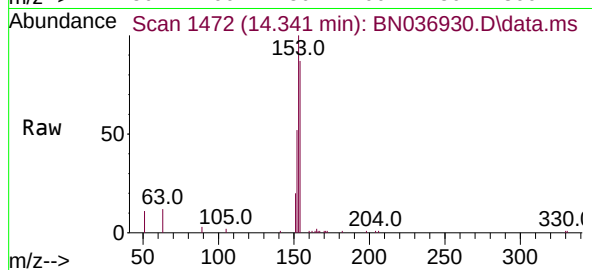
Tgt Ion:154 Resp: 4406

Ion Ratio Lower Upper

154 100

153 116.8 93.4 140.2

152 61.9 49.5 74.3



#18

Fluorene

Concen: 0.390 ng

RT: 15.325 min Scan# 1564

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

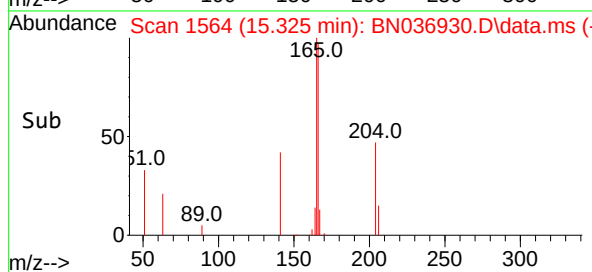
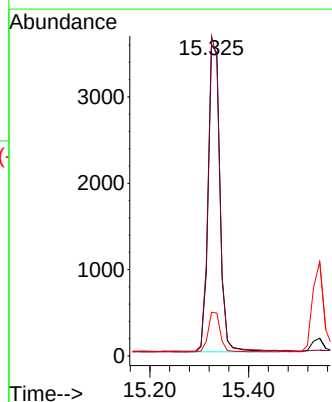
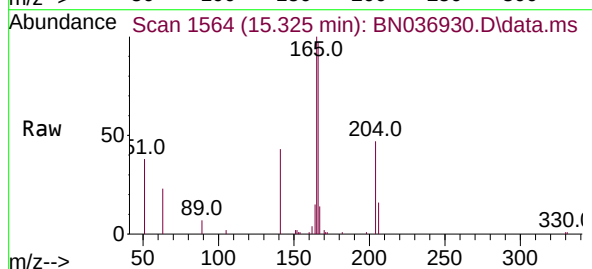
Tgt Ion:166 Resp: 5893

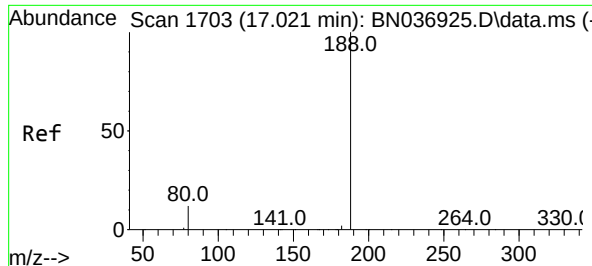
Ion Ratio Lower Upper

166 100

165 100.7 80.8 121.2

167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

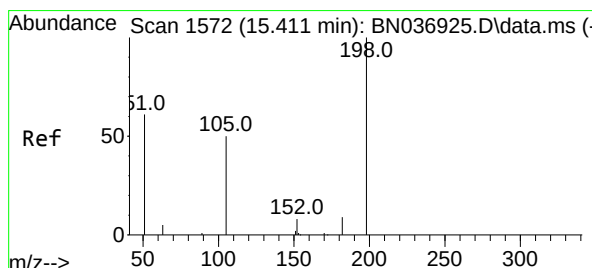
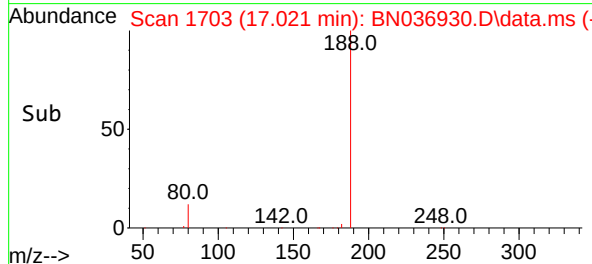
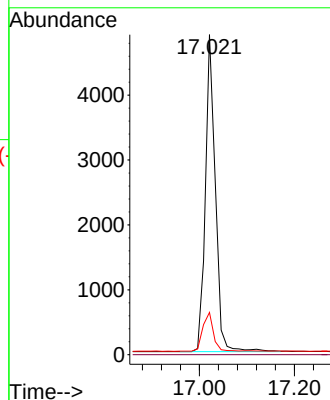
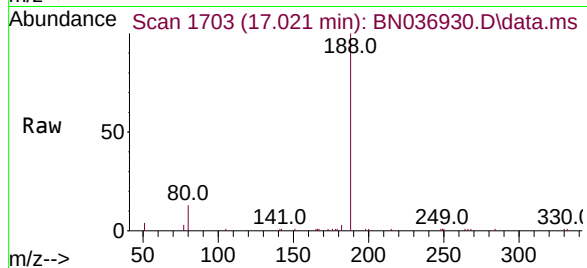
Tgt Ion:188 Resp: 7165

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.2 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.323 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

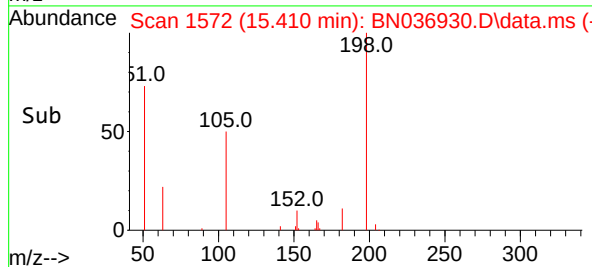
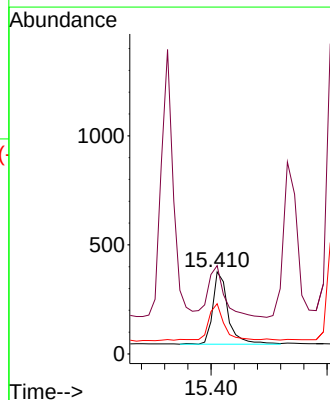
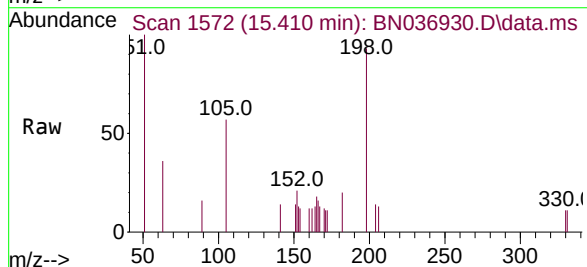
Tgt Ion:198 Resp: 612

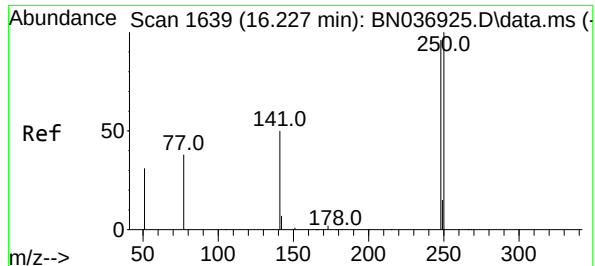
Ion Ratio Lower Upper

198 100

51 107.7 97.9 146.9

105 61.2 50.0 75.0

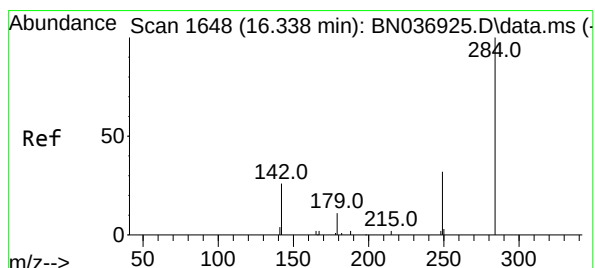
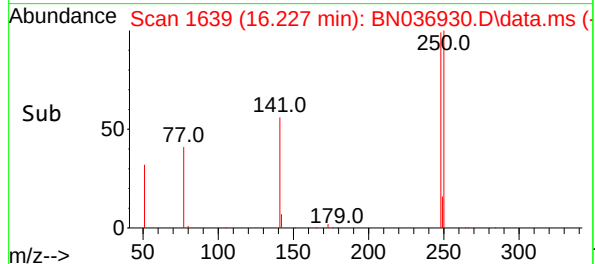
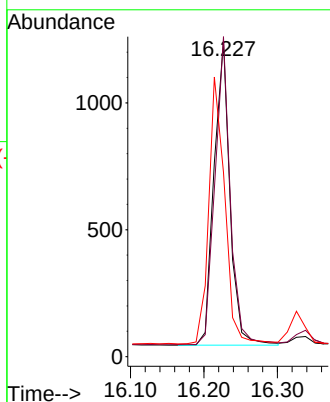
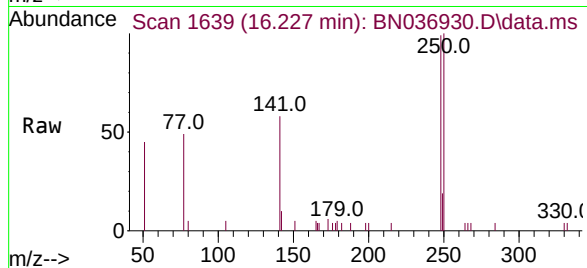




#21
4-Bromophenyl-phenylether
Concen: 0.376 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

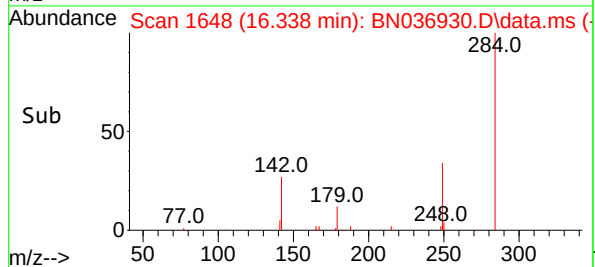
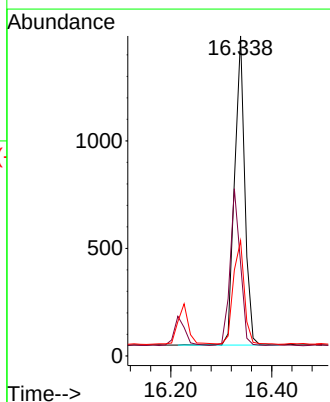
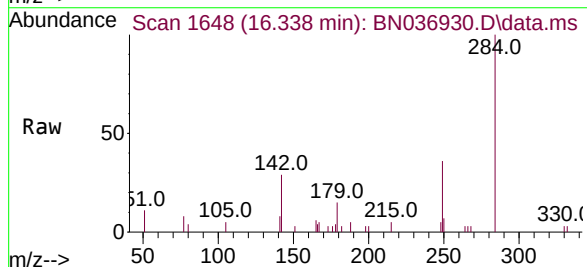
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

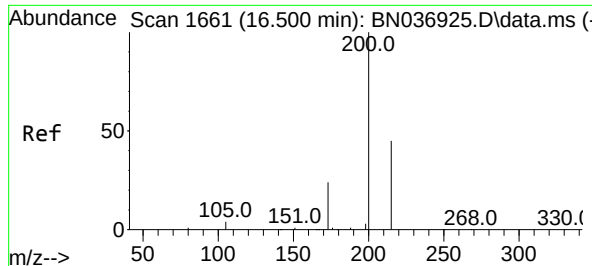
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.3	83.7	125.5
141	58.3	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.387 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.7	40.0	60.0
249	36.4	28.2	42.2





#23

Atrazine

Concen: 0.403 ng

RT: 16.500 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

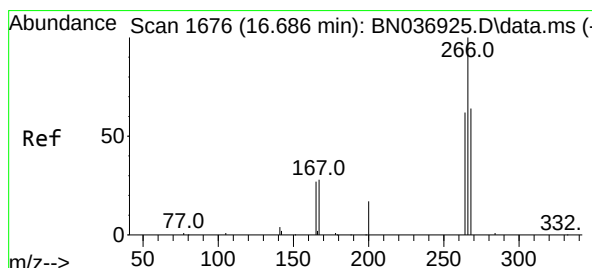
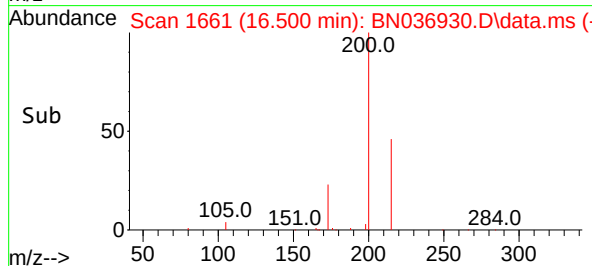
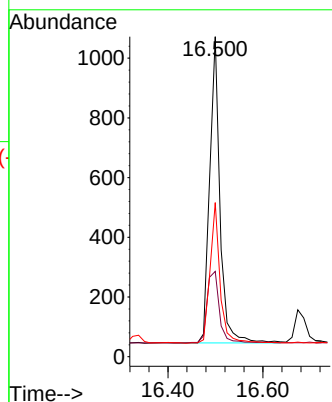
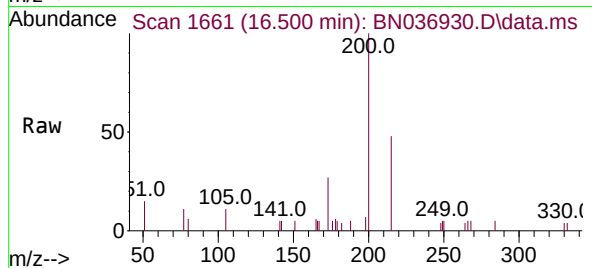
Tgt Ion:200 Resp: 1554

Ion Ratio Lower Upper

200 100

173 26.7 22.4 33.6

215 48.1 38.6 57.8



#24

Pentachlorophenol

Concen: 0.315 ng

RT: 16.686 min Scan# 1676

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

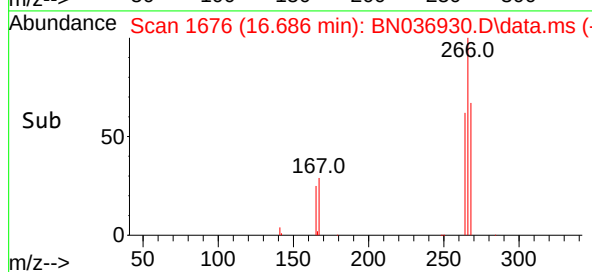
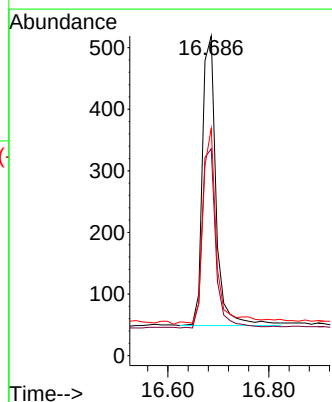
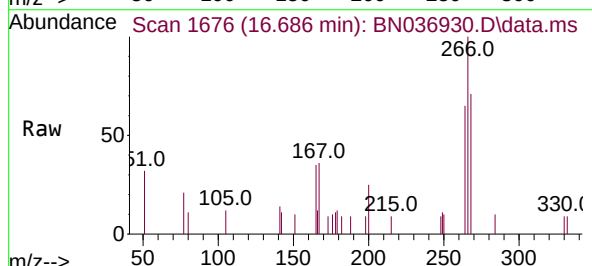
Tgt Ion:266 Resp: 885

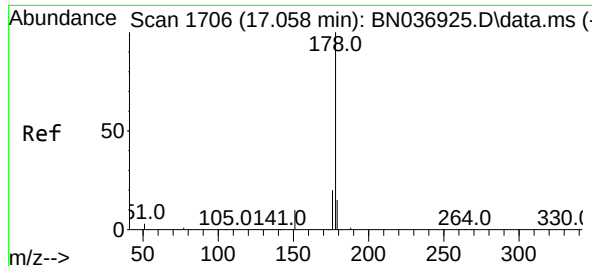
Ion Ratio Lower Upper

266 100

264 62.4 49.9 74.9

268 67.1 52.2 78.4





#25

Phenanthrene

Concen: 0.390 ng

RT: 17.058 min Scan# 1706

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

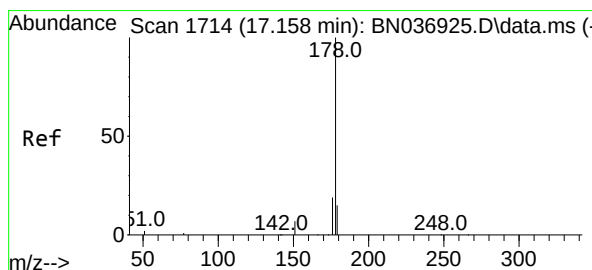
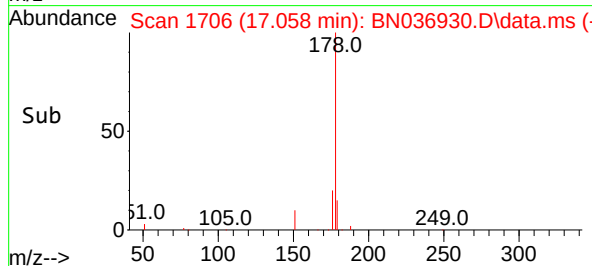
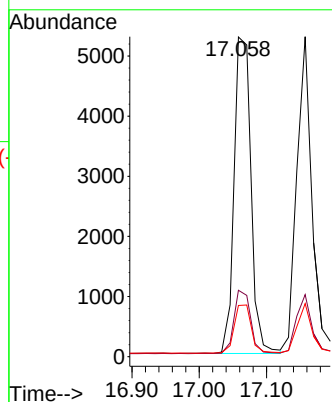
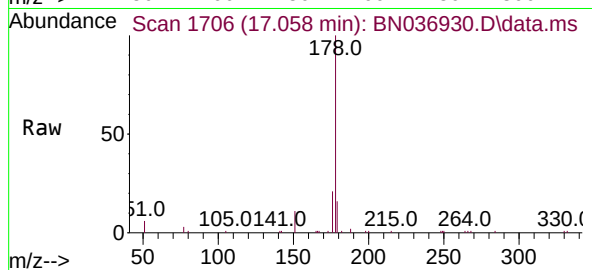
Tgt Ion:178 Resp: 9212

Ion Ratio Lower Upper

178 100

176 19.8 15.7 23.5

179 15.5 12.4 18.6



#26

Anthracene

Concen: 0.393 ng

RT: 17.157 min Scan# 1714

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

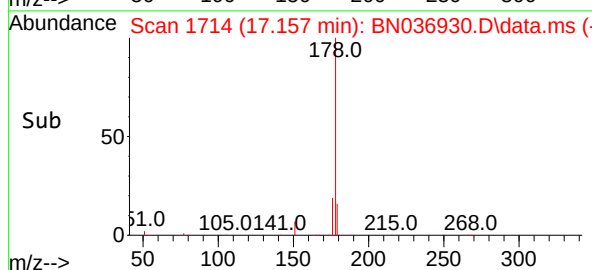
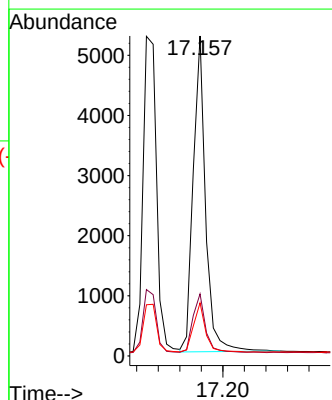
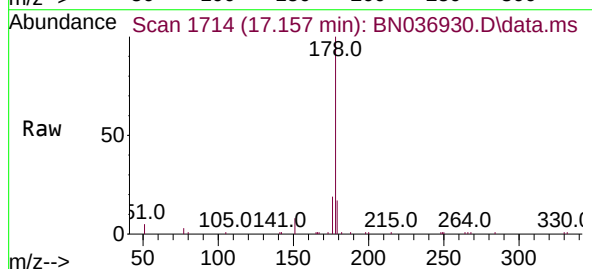
Tgt Ion:178 Resp: 8400

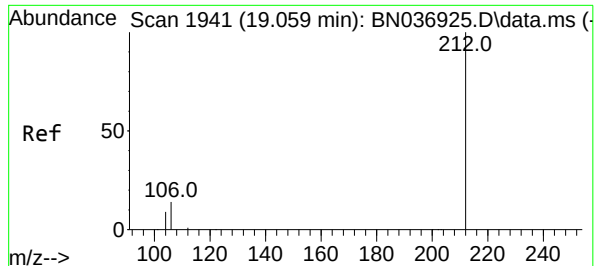
Ion Ratio Lower Upper

178 100

176 19.1 15.3 22.9

179 15.1 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.396 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

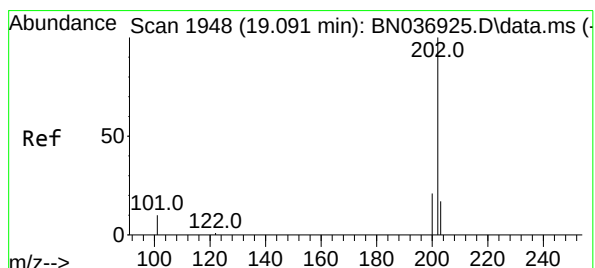
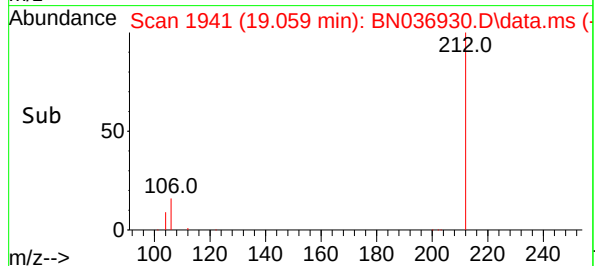
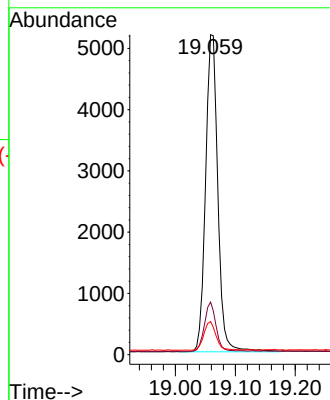
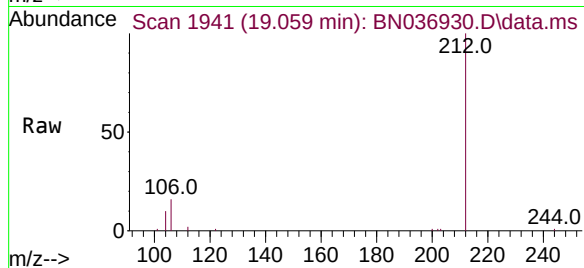
Tgt Ion:212 Resp: 7362

Ion Ratio Lower Upper

212 100

106 14.7 11.6 17.4

104 9.0 7.0 10.4



#28

Fluoranthene

Concen: 0.380 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

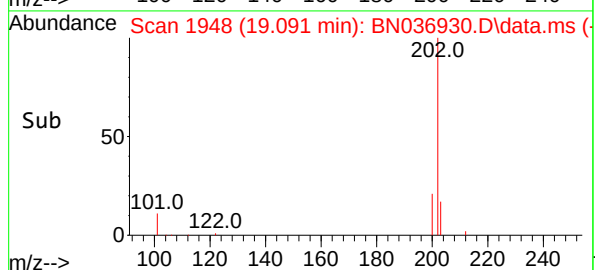
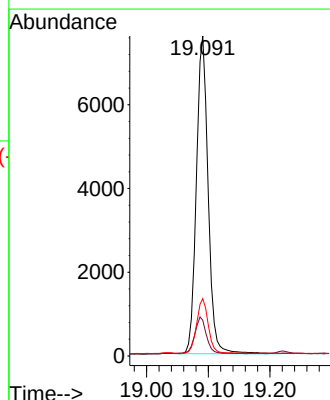
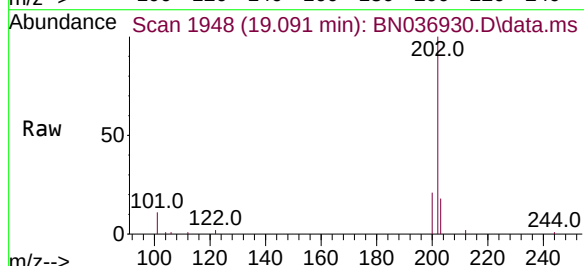
Tgt Ion:202 Resp: 10081

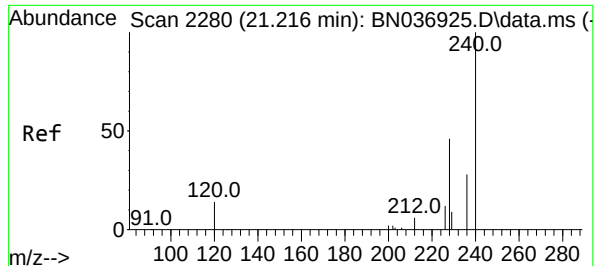
Ion Ratio Lower Upper

202 100

101 11.4 8.5 12.7

203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

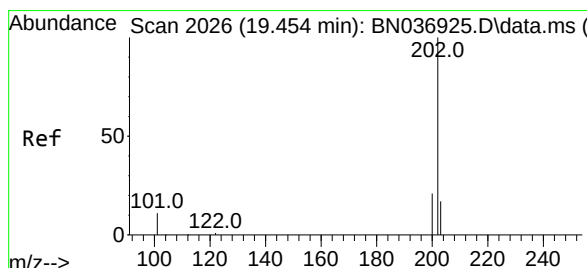
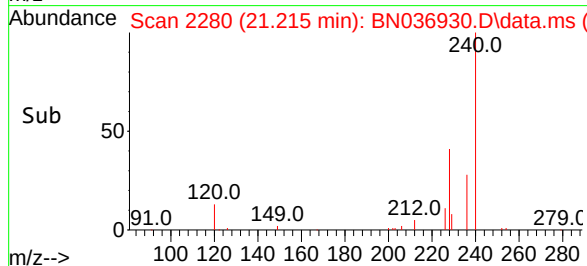
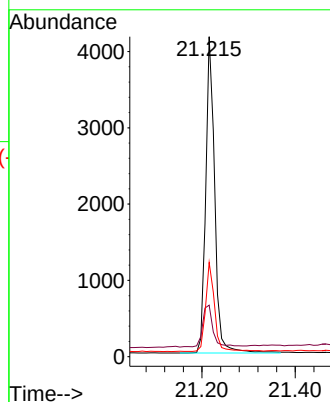
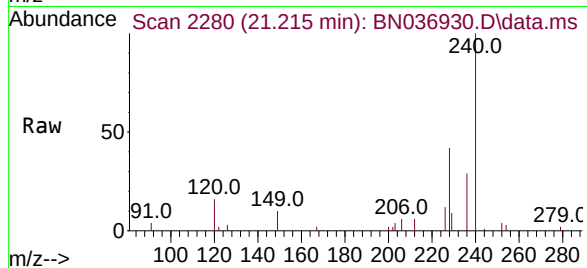
Tgt Ion:240 Resp: 5561

Ion Ratio Lower Upper

240 100

120 16.1 14.1 21.1

236 29.5 23.8 35.8



#30

Pyrene

Concen: 0.376 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

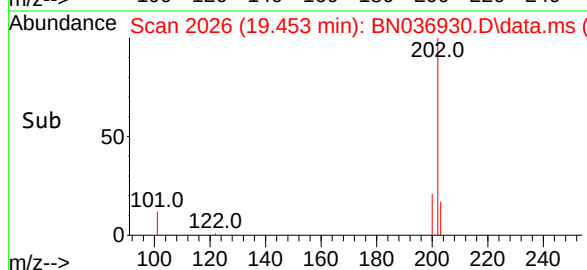
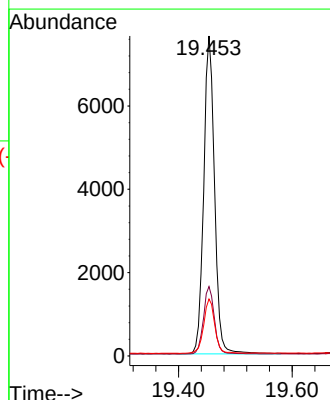
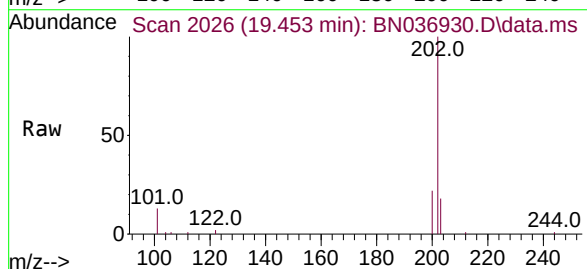
Tgt Ion:202 Resp: 10076

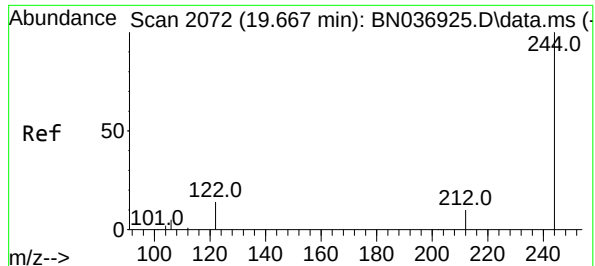
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.6 14.0 21.0

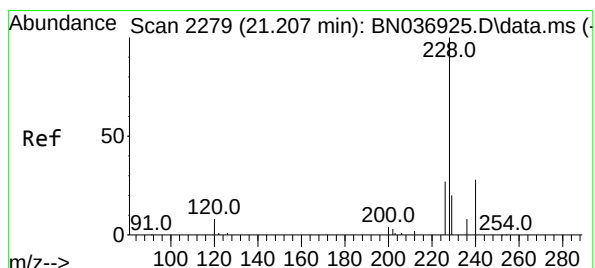
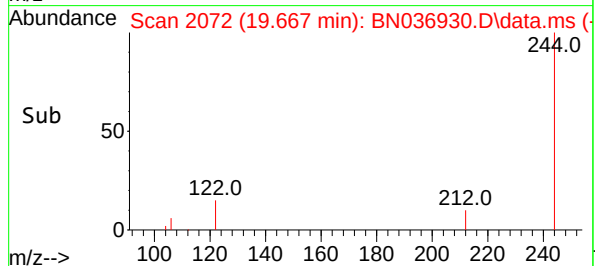
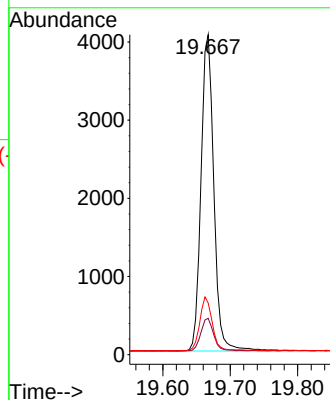
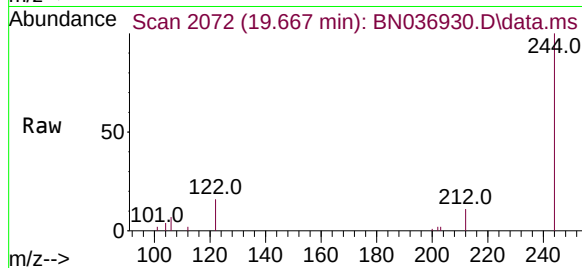




#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.667 min Scan# 2072
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

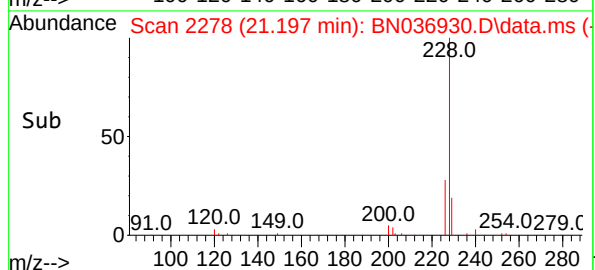
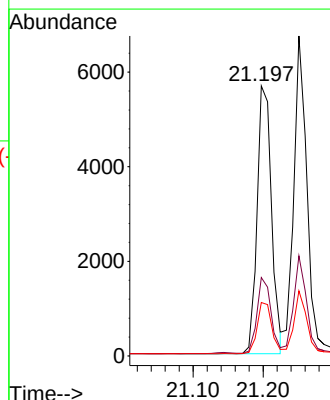
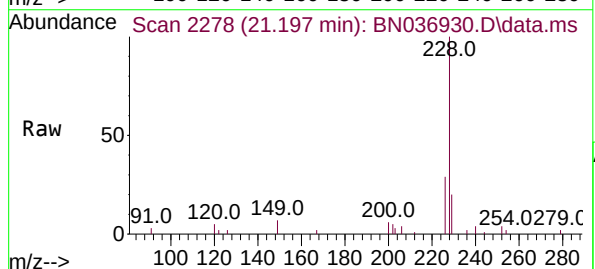
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

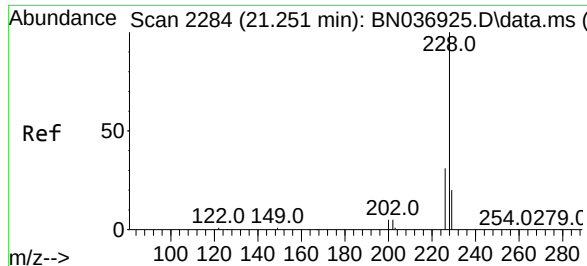
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.3	9.6	14.4
122	16.2	12.7	19.1



#32
Benzo(a)anthracene
Concen: 0.396 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.2	33.4
229	19.8	16.4	24.6





#33

Chrysene

Concen: 0.405 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

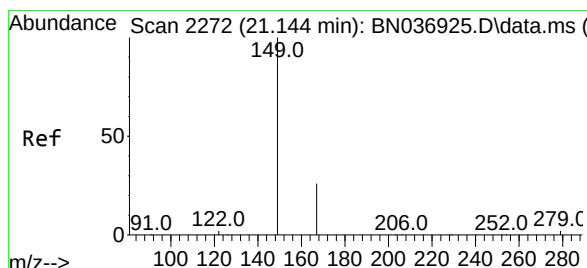
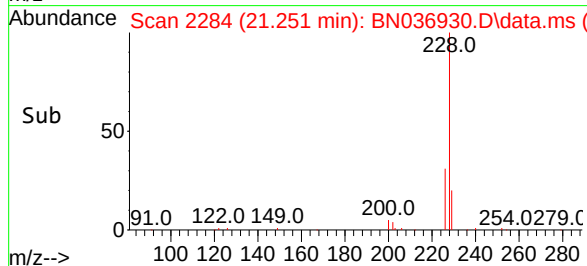
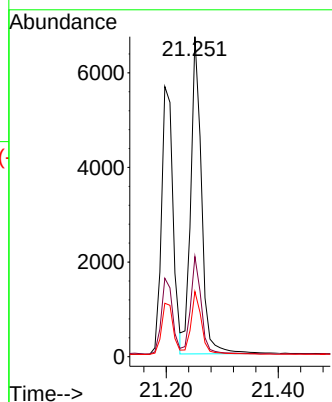
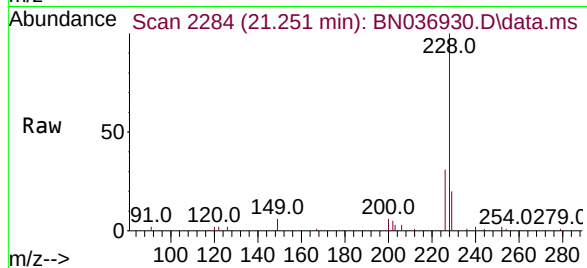
Tgt Ion:228 Resp: 8947

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 20.4 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.360 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

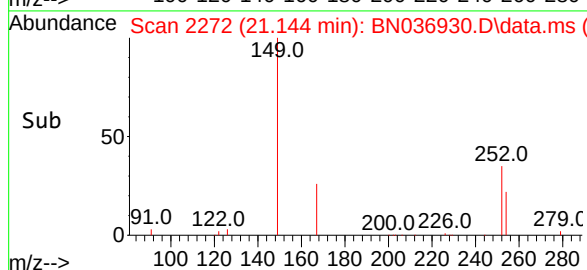
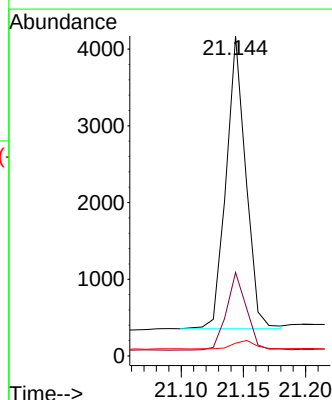
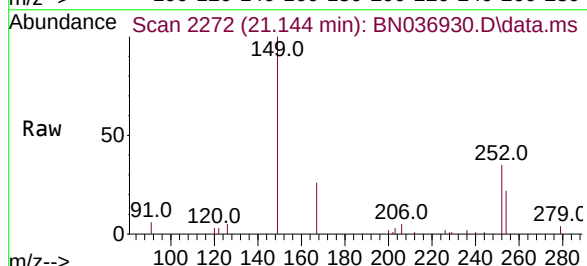
Tgt Ion:149 Resp: 4190

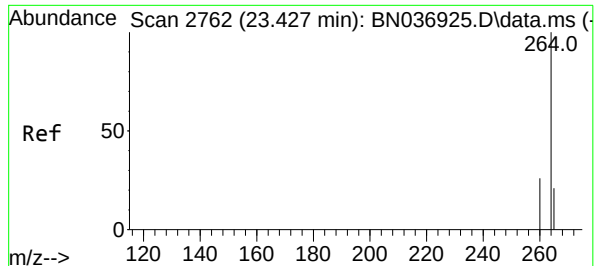
Ion Ratio Lower Upper

149 100

167 27.1 21.0 31.6

279 3.2 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

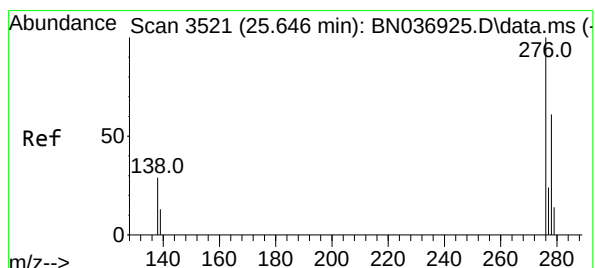
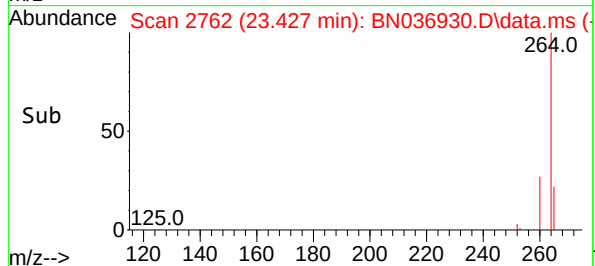
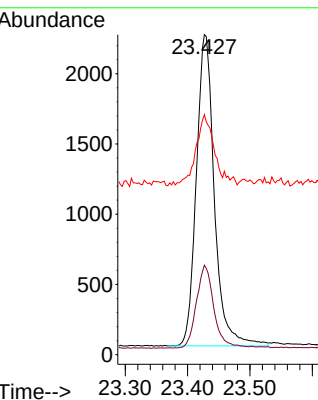
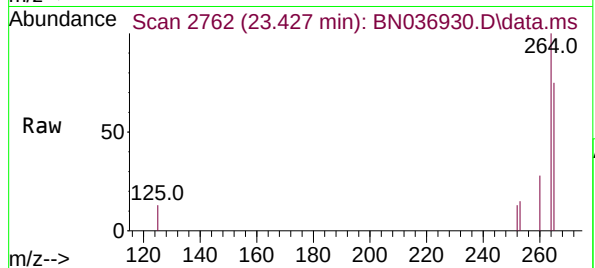
Tgt Ion:264 Resp: 4453

Ion Ratio Lower Upper

264 100

260 28.0 22.2 33.2

265 75.0 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.364 ng

RT: 25.640 min Scan# 3519

Delta R.T. -0.006 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

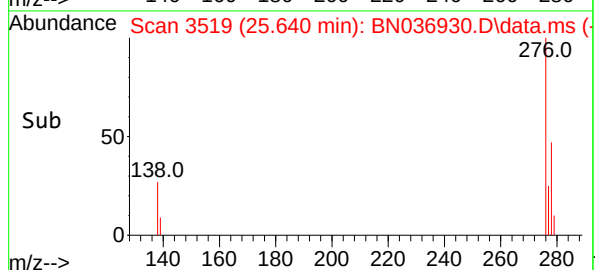
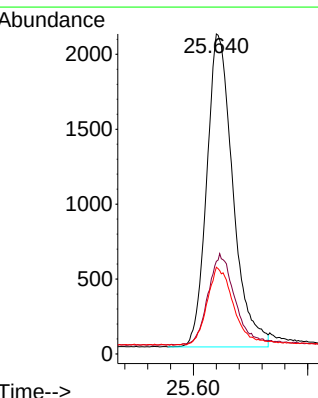
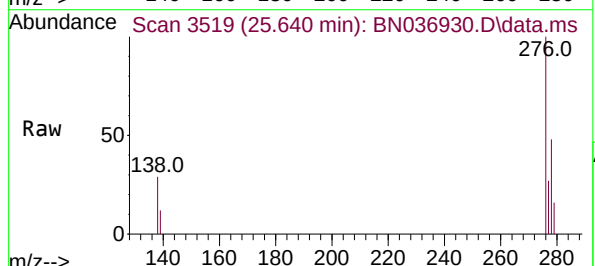
Tgt Ion:276 Resp: 6626

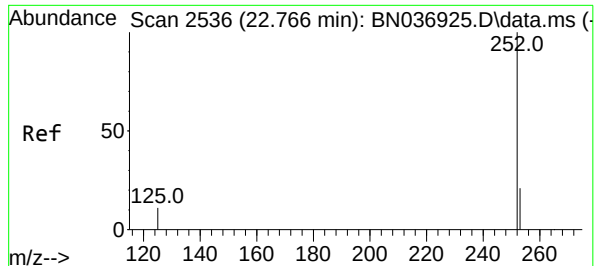
Ion Ratio Lower Upper

276 100

138 29.6 23.0 34.6

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.389 ng

RT: 22.763 min Scan# 2535

Delta R.T. -0.003 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

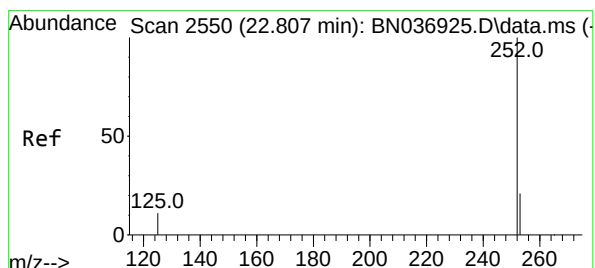
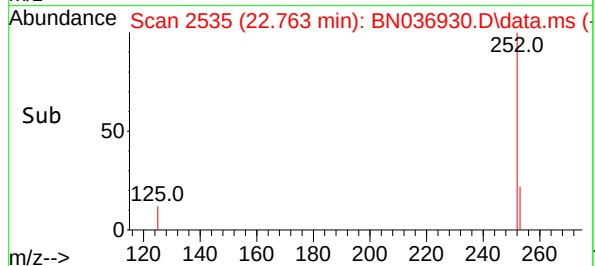
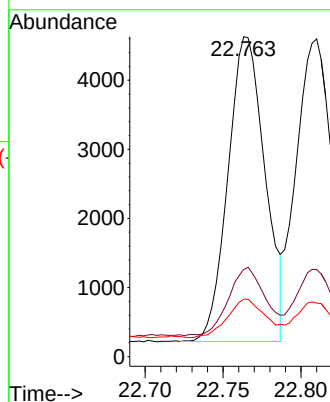
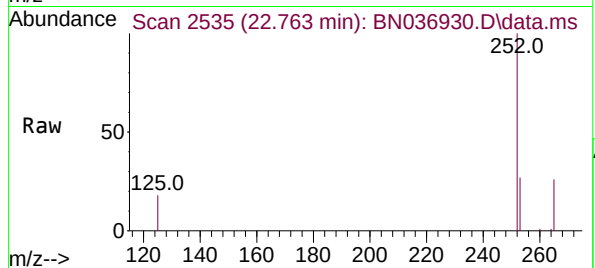
Tgt Ion:252 Resp: 7283

Ion Ratio Lower Upper

252 100

253 27.3 22.1 33.1

125 18.0 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.407 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.003 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

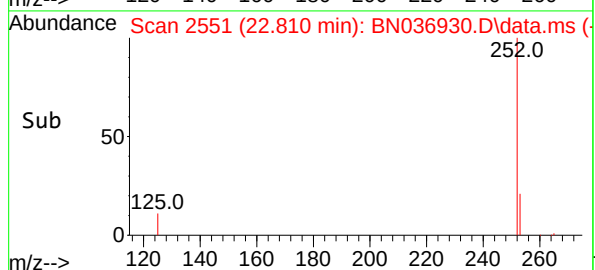
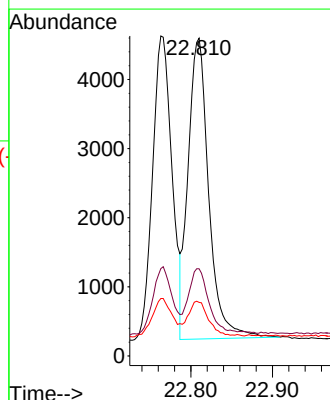
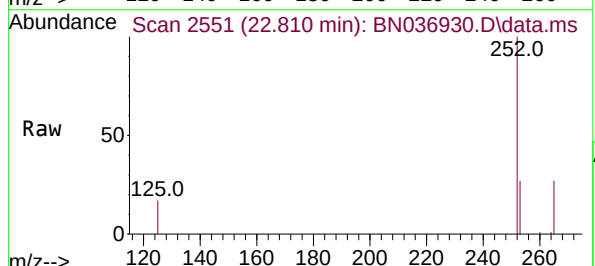
Tgt Ion:252 Resp: 7655

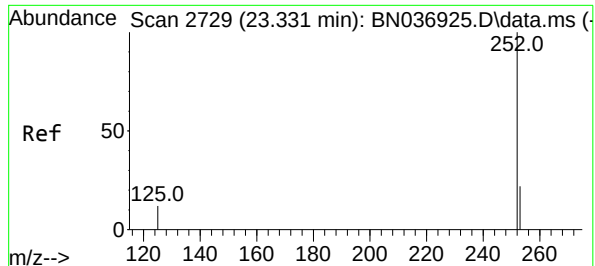
Ion Ratio Lower Upper

252 100

253 27.4 22.8 34.2

125 16.9 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.417 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

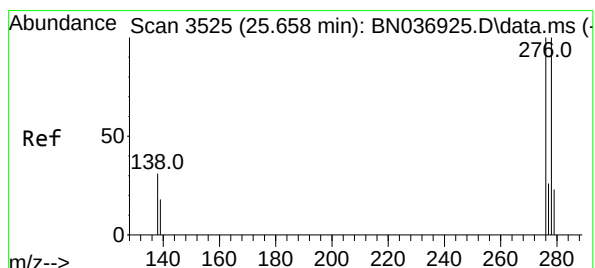
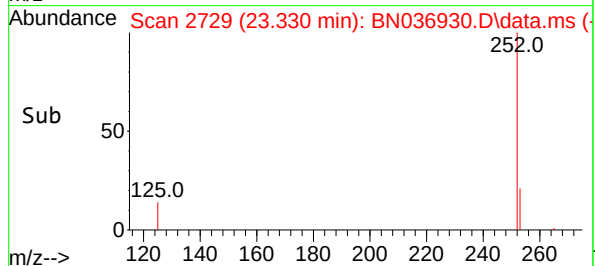
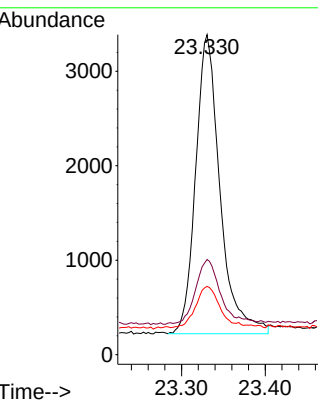
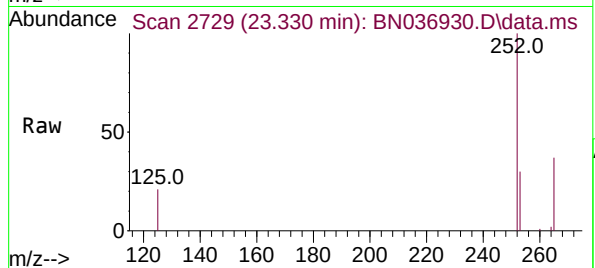
Tgt Ion:252 Resp: 6417

Ion Ratio Lower Upper

252 100

253 29.8 25.9 38.9

125 21.3 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.362 ng

RT: 25.663 min Scan# 3527

Delta R.T. 0.006 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

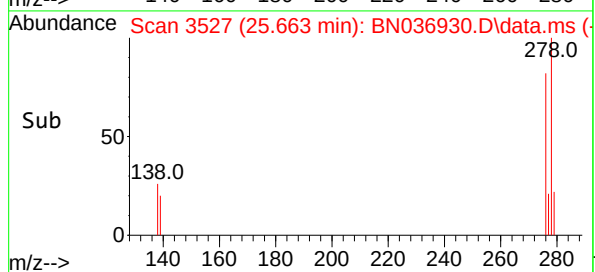
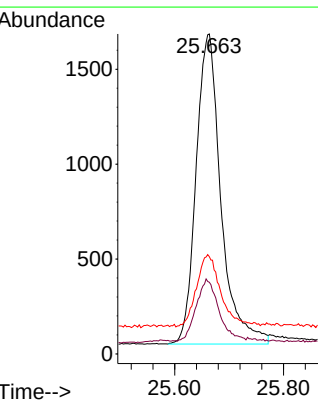
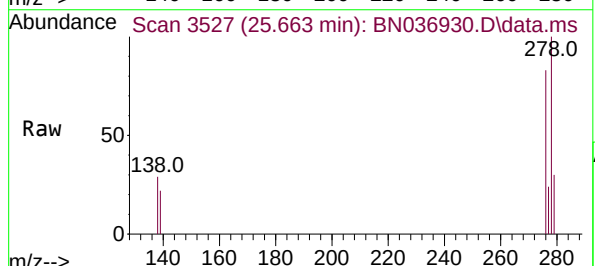
Tgt Ion:278 Resp: 5177

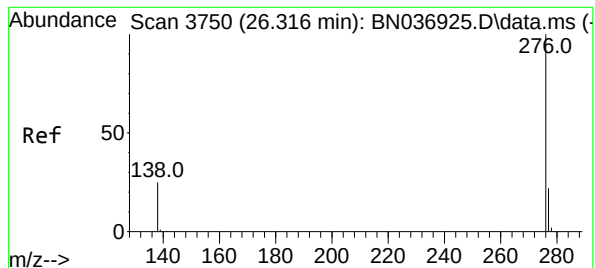
Ion Ratio Lower Upper

278 100

139 22.4 17.4 26.2

279 30.4 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.359 ng

RT: 26.321 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036930.D

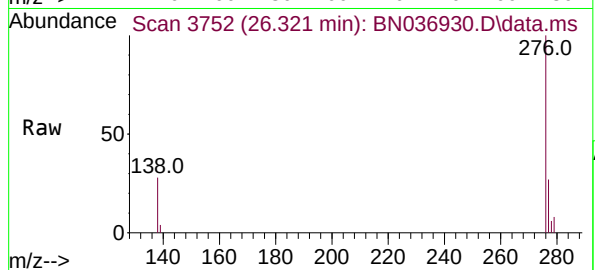
Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825



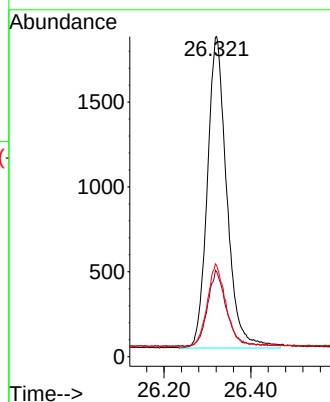
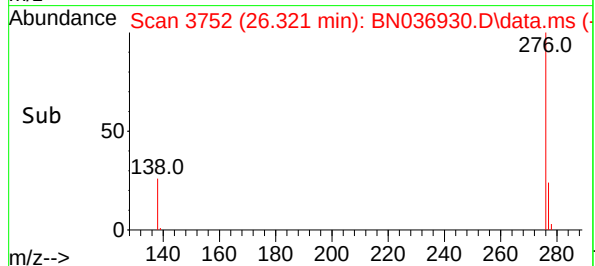
Tgt Ion:276 Resp: 5705

Ion Ratio Lower Upper

276 100

277 26.5 20.2 30.2

138 28.5 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036930.D
Acq On : 28 Apr 2025 15:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Quant Time: Apr 28 18:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 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	101	0.00
2	1,4-Dioxane	0.498	0.543	-9.0	100	0.00
3	n-Nitrosodimethylamine	0.967	0.989	-2.3	99	0.00
4 S	2-Fluorophenol	1.023	0.913	10.8	83	0.00
5 S	Phenol-d6	1.259	1.095	13.0	83	0.00
6	bis(2-Chloroethyl)ether	1.167	1.229	-5.3	107	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	106	0.00
8 S	Nitrobenzene-d5	0.418	0.426	-1.9	110	0.00
9	Naphthalene	1.164	1.162	0.2	107	0.00
10	Hexachlorobutadiene	0.252	0.261	-3.6	109	0.00
11 SURR	2-Methylnaphthalene-d10	0.559	0.575	-2.9	113	0.00
12	2-Methylnaphthalene	0.753	0.690	8.4	102	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	118	0.00
14 S	2,4,6-Tribromophenol	0.178	0.146	18.0	97	0.00
15 S	2-Fluorobiphenyl	1.933	1.889	2.3	108	0.00
16	Acenaphthylene	1.955	2.010	-2.8	124	0.00
17	Acenaphthene	1.284	1.226	4.5	113	0.00
18	Fluorene	1.680	1.639	2.4	119	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	125	0.00
20	4,6-Dinitro-2-methylphenol	0.106	0.085	19.8	119	0.00
21	4-Bromophenyl-phenylether	0.267	0.251	6.0	120	0.00
22	Hexachlorobenzene	0.293	0.283	3.4	118	0.00
23	Atrazine	0.215	0.217	-0.9	136	0.00
24	Pentachlorophenol	0.157	0.124	21.0	107	0.00
25	Phenanthrene	1.320	1.286	2.6	124	0.00
26	Anthracene	1.194	1.172	1.8	128	0.00
27 SURR	Fluoranthene-d10	1.037	1.027	1.0	130	0.00
28	Fluoranthene	1.480	1.407	4.9	126	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	135	0.00
30	Pyrene	1.927	1.812	6.0	125	0.00
31 S	Terphenyl-d14	0.944	0.961	-1.8	137	0.00
32	Benzo(a)anthracene	1.473	1.457	1.1	138	0.00
33	Chrysene	1.589	1.609	-1.3	133	0.00
34	Bis(2-ethylhexyl)phthalate	0.838	0.753	10.1	122	0.00
35 I	Perylene-d12	1.000	1.000	0.0	123	0.00
36	Indeno(1,2,3-cd)pyrene	1.634	1.488	8.9	107	0.00
37	Benzo(b)fluoranthene	1.682	1.636	2.7	123	0.00
38	Benzo(k)fluoranthene	1.691	1.719	-1.7	128	0.00
39 C	Benzo(a)pyrene	1.383	1.441	-4.2	130	0.00
40	Dibenzo(a,h)anthracene	1.286	1.163	9.6	106	0.00
41	Benzo(g,h,i)perylene	1.427	1.281	10.2	104	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036930.D
Acq On : 28 Apr 2025 15:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Quant Time: Apr 28 18:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 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	101	0.00
2	1,4-Dioxane	0.400	0.435	-8.7	100	0.00
3	n-Nitrosodimethylamine	0.400	0.409	-2.2	99	0.00
4 S	2-Fluorophenol	0.400	0.357	10.8	83	0.00
5 S	Phenol-d6	0.400	0.348	13.0	83	0.00
6	bis(2-Chloroethyl)ether	0.400	0.421	-5.2	107	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	106	0.00
8 S	Nitrobenzene-d5	0.400	0.408	-2.0	110	0.00
9	Naphthalene	0.400	0.399	0.3	107	0.00
10	Hexachlorobutadiene	0.400	0.414	-3.5	109	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.411	-2.7	113	0.00
12	2-Methylnaphthalene	0.400	0.367	8.3	102	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	118	0.00
14 S	2,4,6-Tribromophenol	0.400	0.327	18.3	97	0.00
15 S	2-Fluorobiphenyl	0.400	0.391	2.3	108	0.00
16	Acenaphthylene	0.400	0.411	-2.7	124	0.00
17	Acenaphthene	0.400	0.382	4.5	113	0.00
18	Fluorene	0.400	0.390	2.5	119	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	125	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.323	19.3	119	0.00
21	4-Bromophenyl-phenylether	0.400	0.376	6.0	120	0.00
22	Hexachlorobenzene	0.400	0.387	3.3	118	0.00
23	Atrazine	0.400	0.403	-0.8	136	0.00
24	Pentachlorophenol	0.400	0.315	21.3	107	0.00
25	Phenanthrene	0.400	0.390	2.5	124	0.00
26	Anthracene	0.400	0.393	1.8	128	0.00
27 SURR	Fluoranthene-d10	0.400	0.396	1.0	130	0.00
28	Fluoranthene	0.400	0.380	5.0	126	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	135	0.00
30	Pyrene	0.400	0.376	6.0	125	0.00
31 S	Terphenyl-d14	0.400	0.407	-1.7	137	0.00
32	Benzo(a)anthracene	0.400	0.396	1.0	138	0.00
33	Chrysene	0.400	0.405	-1.3	133	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.360	10.0	122	0.00
35 I	Perylene-d12	0.400	0.400	0.0	123	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.364	9.0	107	0.00
37	Benzo(b)fluoranthene	0.400	0.389	2.8	123	0.00
38	Benzo(k)fluoranthene	0.400	0.407	-1.7	128	0.00
39 C	Benzo(a)pyrene	0.400	0.417	-4.2	130	0.00
40	Dibenzo(a,h)anthracene	0.400	0.362	9.5	106	0.00
41	Benzo(g,h,i)perylene	0.400	0.359	10.3	104	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1886 SAS No.: Q1886 SDG No.: Q1886

Instrument ID: BNA_N Calibration Date/Time: 04/30/2025 10:59

Lab File ID: BN036941.D Init. Calib. Date(s): 04/28/2025 04/28/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:35 15:12

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.559	0.553		-1.1	20.0
Fluoranthene-d10	1.037	1.024		-1.3	20.0
2-Fluorophenol	1.023	1.039		1.6	20.0
Phenol-d6	1.259	1.276		1.4	20.0
Nitrobenzene-d5	0.418	0.412		-1.4	20.0
2-Fluorobiphenyl	1.933	2.002		3.6	20.0
2,4,6-Tribromophenol	0.178	0.171		-3.9	20.0
Terphenyl-d14	0.944	0.910		-3.6	20.0
1,4-Dioxane	0.498	0.530		6.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
 Data File : BN036941.D
 Acq On : 30 Apr 2025 10:59
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Apr 30 11:41:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

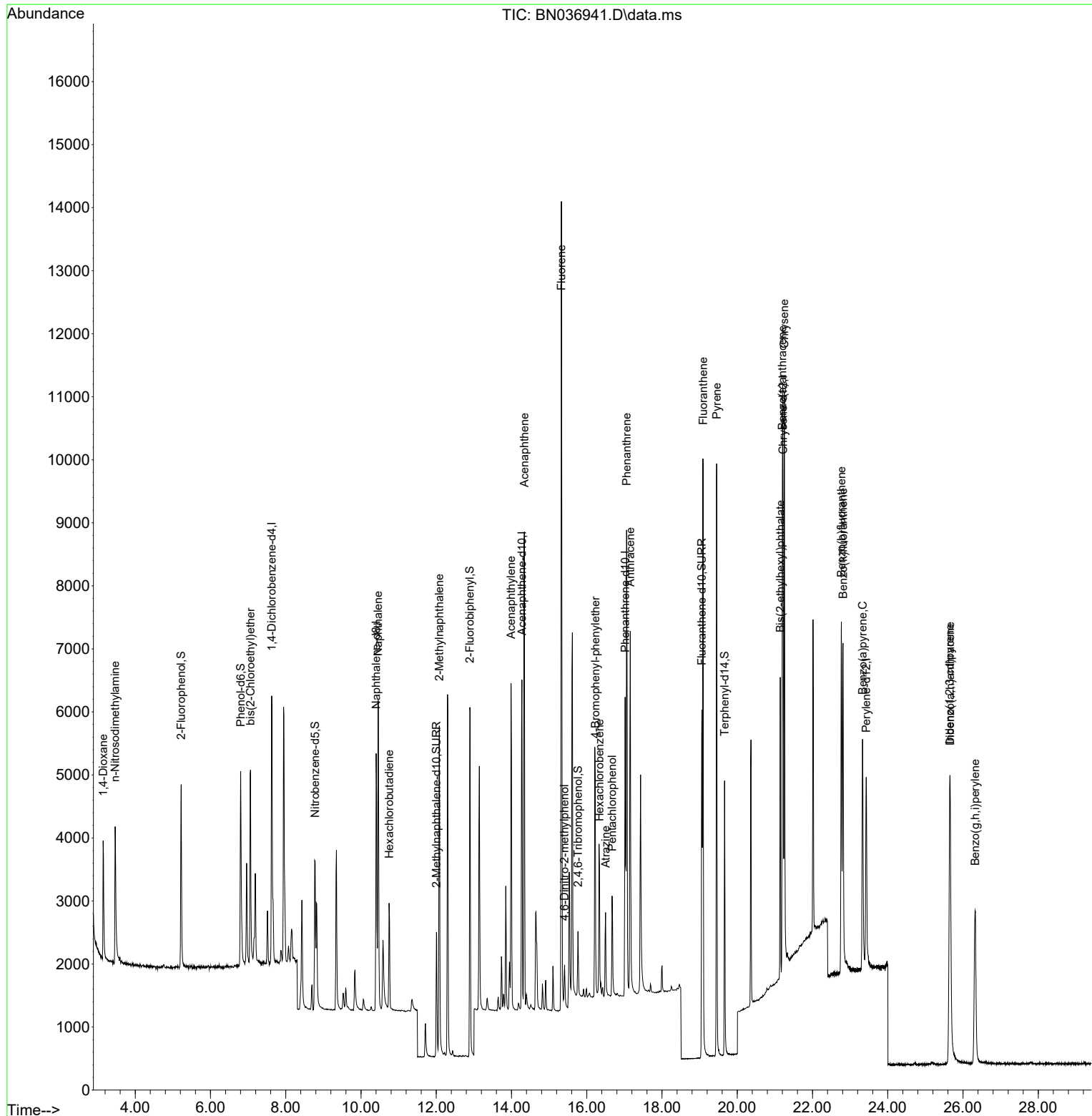
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.625	152	2089	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	5327	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	3019	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6059	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4788	0.400	ng	0.00
35) Perylene-d12	23.427	264	4103	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	2170	0.406	ng	0.00
5) Phenol-d6	6.802	99	2665	0.405	ng	0.00
8) Nitrobenzene-d5	8.781	82	2193	0.393	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	2946	0.395	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	516	0.383	ng	0.00
15) 2-Fluorobiphenyl	12.893	172	6043	0.414	ng	0.00
27) Fluoranthene-d10	19.059	212	6203	0.395	ng	0.00
31) Terphenyl-d14	19.663	244	4357	0.386	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.148	88	1108	0.426	ng	Qvalue 94
3) n-Nitrosodimethylamine	3.465	42	2073	0.410	ng	# 94
6) bis(2-Chloroethyl)ether	7.062	93	2393	0.393	ng	100
9) Naphthalene	10.458	128	6195	0.400	ng	99
10) Hexachlorobutadiene	10.746	225	1363	0.406	ng	# 95
12) 2-Methylnaphthalene	12.082	142	3959	0.395	ng	98
16) Acenaphthylene	13.989	152	5724	0.388	ng	100
17) Acenaphthene	14.341	154	3781	0.390	ng	99
18) Fluorene	15.325	166	4951	0.390	ng	100
20) 4,6-Dinitro-2-methylph...	15.410	198	533	0.332	ng	85
21) 4-Bromophenyl-phenylether	16.227	248	1557	0.385	ng	98
22) Hexachlorobenzene	16.338	284	1740	0.393	ng	98
23) Atrazine	16.500	200	1270	0.389	ng	99
24) Pentachlorophenol	16.673	266	828	0.349	ng	98
25) Phenanthrene	17.058	178	7786	0.389	ng	100
26) Anthracene	17.157	178	6822	0.377	ng	100
28) Fluoranthene	19.091	202	8782	0.392	ng	99
30) Pyrene	19.453	202	8781	0.381	ng	100
32) Benzo(a)anthracene	21.197	228	6761	0.383	ng	97
33) Chrysene	21.251	228	7941	0.418	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	3907	0.390	ng	100
36) Indeno(1,2,3-cd)pyrene	25.646	276	6159	0.368	ng	99
37) Benzo(b)fluoranthene	22.766	252	6735	0.390	ng	98
38) Benzo(k)fluoranthene	22.810	252	6709	0.387	ng	99
39) Benzo(a)pyrene	23.330	252	5522	0.389	ng	97
40) Dibenzo(a,h)anthracene	25.661	278	4805	0.364	ng	99
41) Benzo(g,h,i)perylene	26.321	276	5438	0.372	ng	99

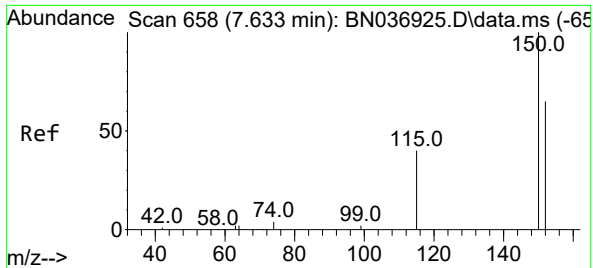
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036941.D
Acq On : 30 Apr 2025 10:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Apr 30 11:41:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

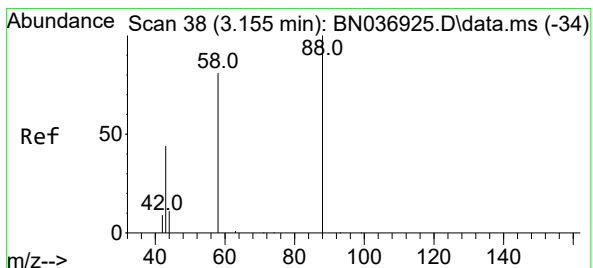
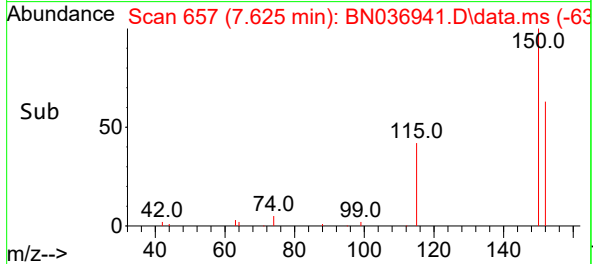
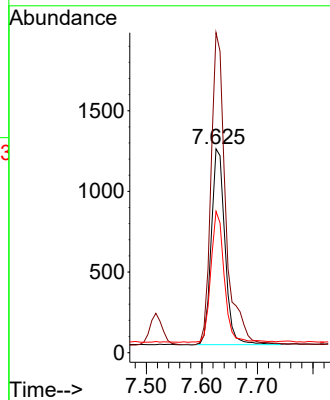
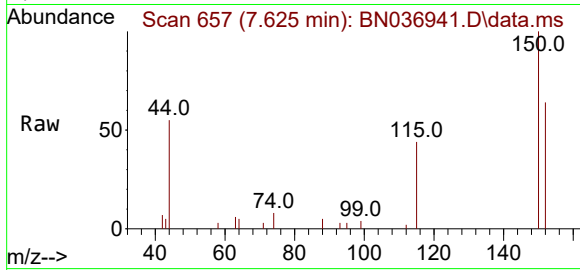




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.625 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

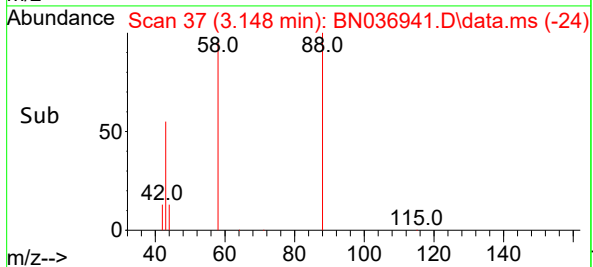
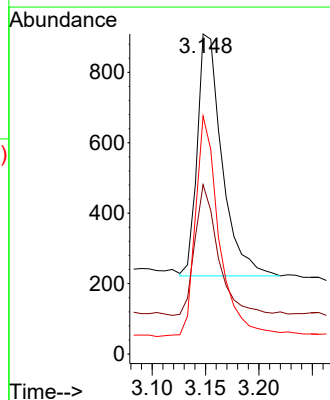
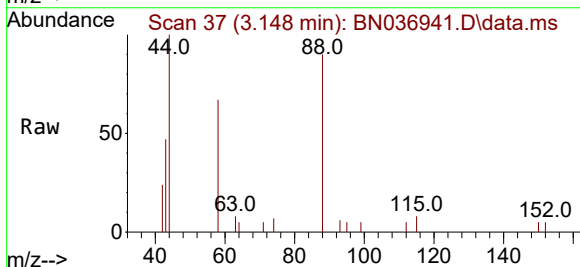
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

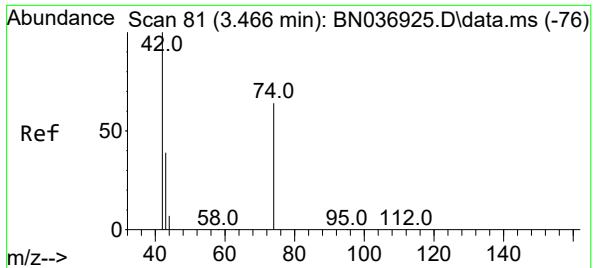
Tgt Ion:152 Resp: 2089
Ion Ratio Lower Upper
152 100
150 157.0 121.1 181.7
115 69.3 51.8 77.6



#2
1,4-Dioxane
Concen: 0.426 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion: 88 Resp: 1108
Ion Ratio Lower Upper
88 100
43 51.3 37.9 56.9
58 87.6 65.8 98.6

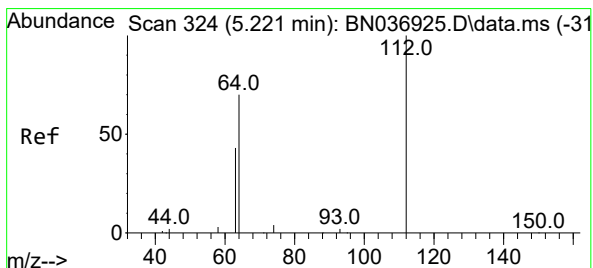
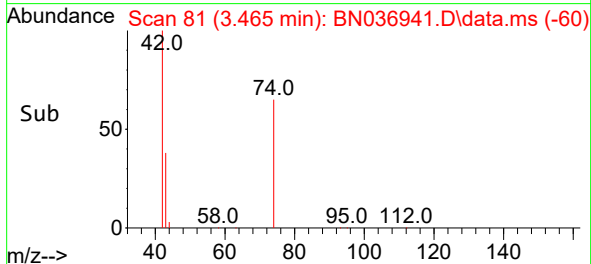
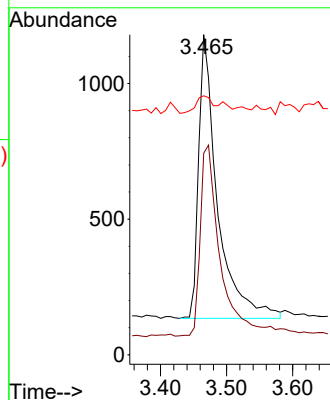
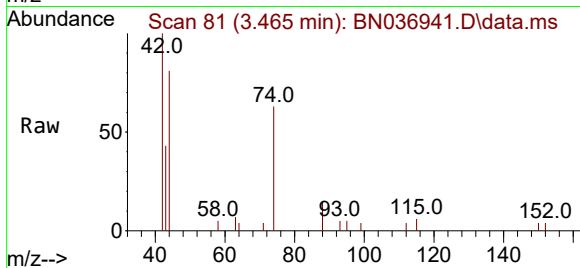




#3
n-Nitrosodimethylamine
Concen: 0.410 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

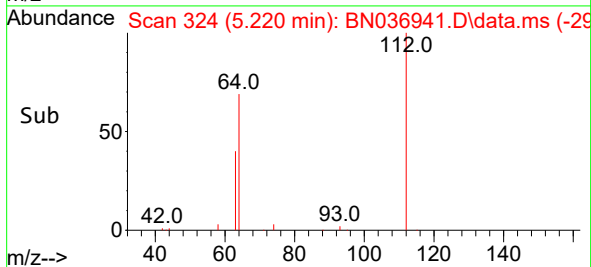
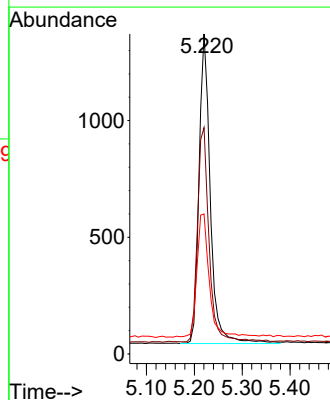
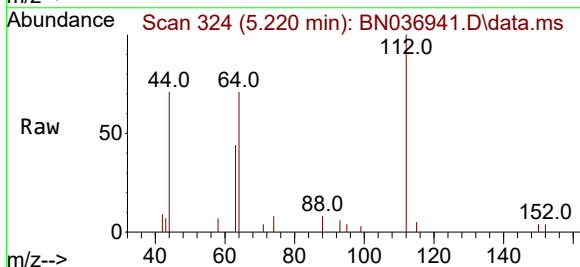
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

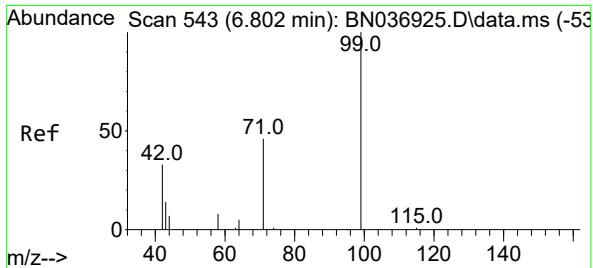
Tgt Ion: 42 Resp: 2073
Ion Ratio Lower Upper
42 100
74 70.8 59.9 89.9
44 5.1 7.5 11.3#



#4
2-Fluorophenol
Concen: 0.406 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion: 112 Resp: 2170
Ion Ratio Lower Upper
112 100
64 71.3 55.7 83.5
63 44.0 33.9 50.9

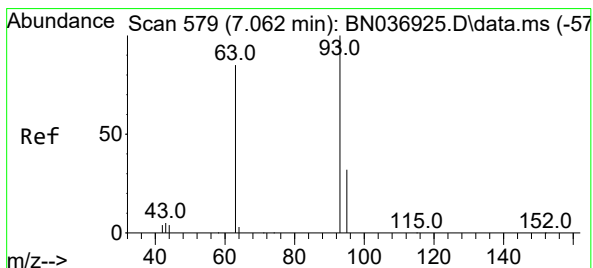
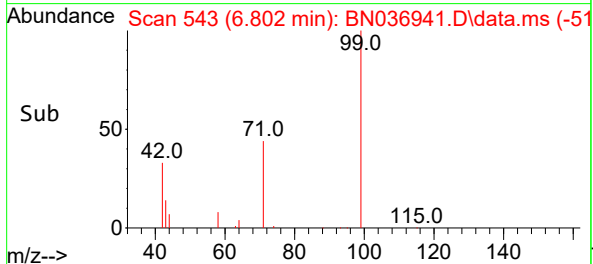
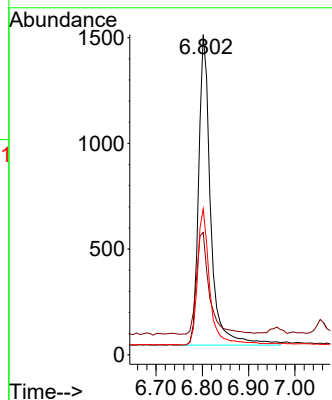
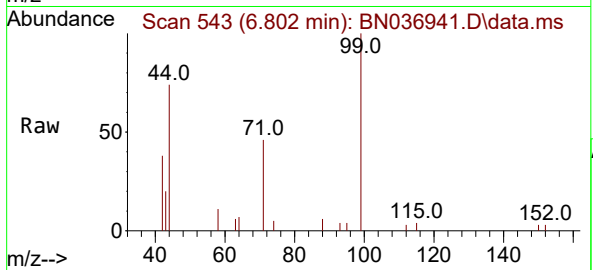




#5
Phenol-d6
Concen: 0.405 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

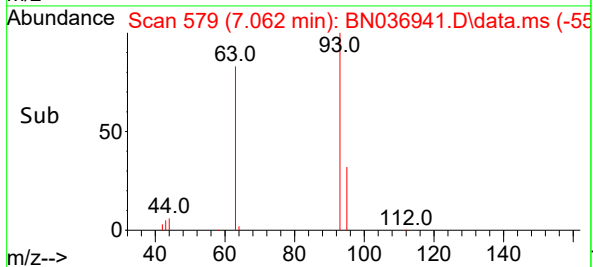
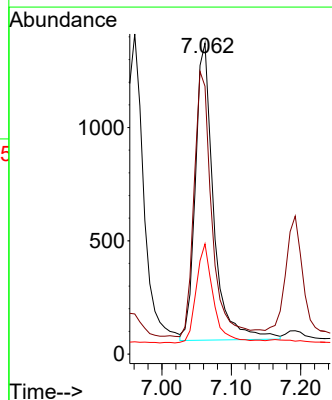
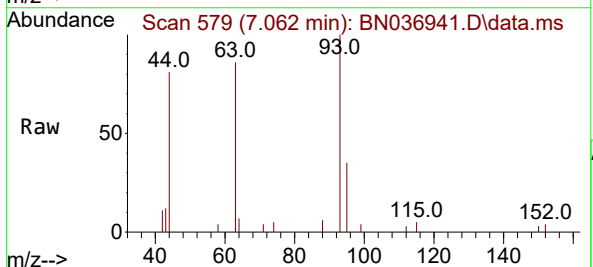
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

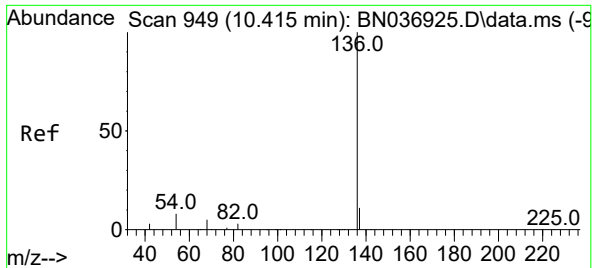
Tgt Ion: 99 Resp: 2665
Ion Ratio Lower Upper
99 100
42 35.4 29.6 44.4
71 44.7 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.393 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion: 93 Resp: 2393
Ion Ratio Lower Upper
93 100
63 86.4 69.0 103.6
95 31.9 25.4 38.0

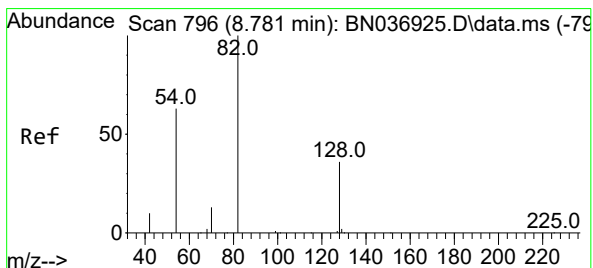
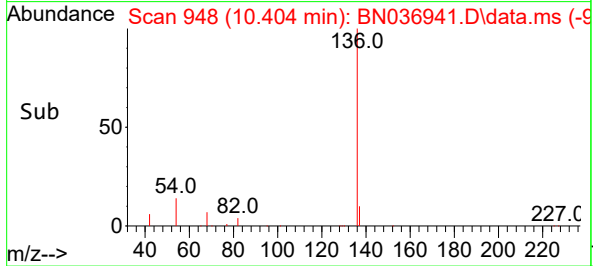
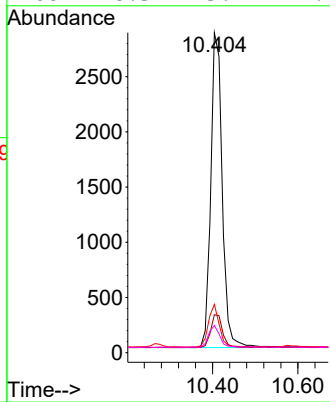
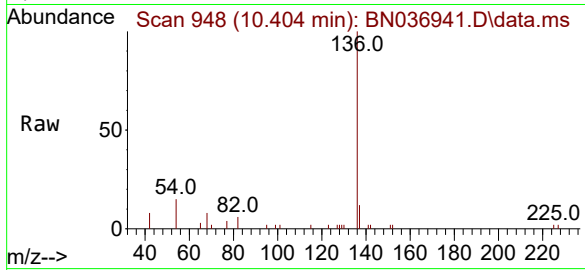




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

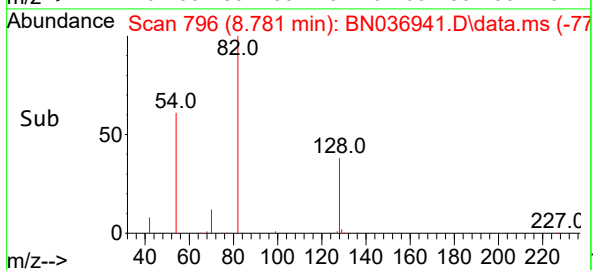
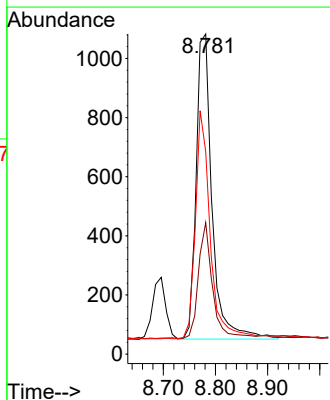
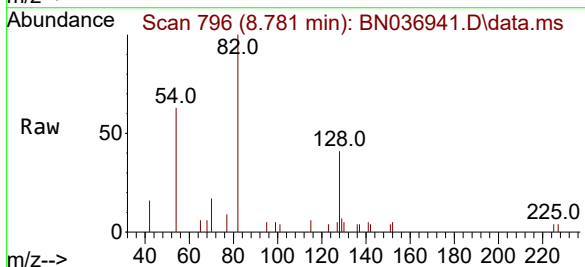
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

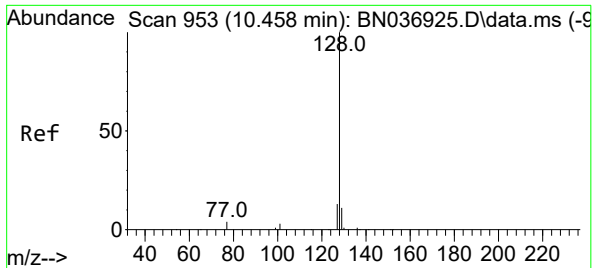
Tgt Ion:	136	Resp:	5327
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.7	14.5
54	15.1	8.0	12.0#
68	8.5	5.1	7.7#



#8
Nitrobenzene-d5
Concen: 0.393 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion:	82	Resp:	2193
Ion	Ratio	Lower	Upper
82	100		
128	41.1	30.7	46.1
54	63.3	52.1	78.1

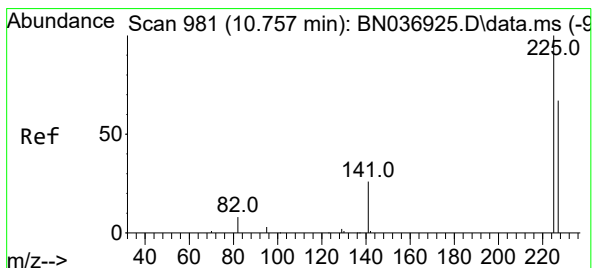
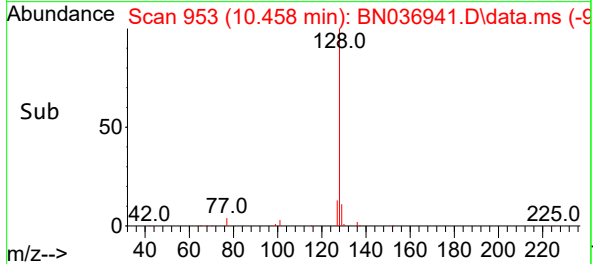
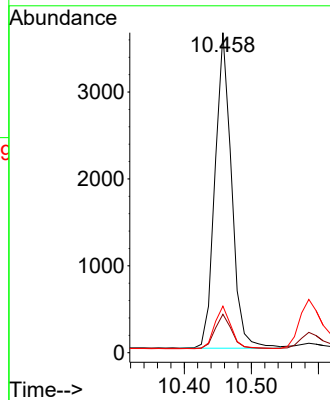
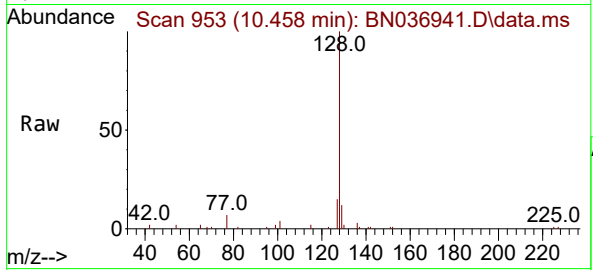




#9
Naphthalene
Concen: 0.400 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

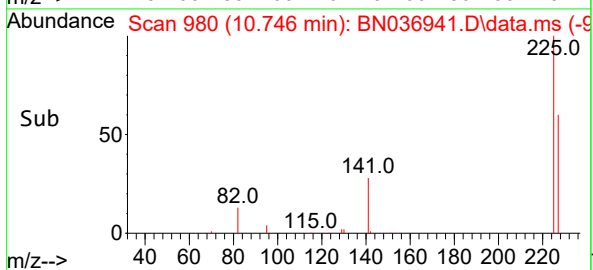
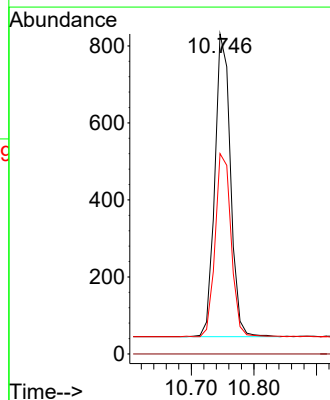
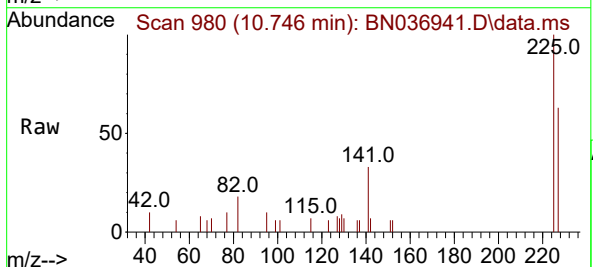
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

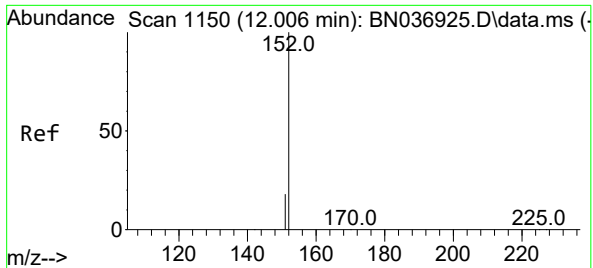
Tgt Ion:	128	Resp:	6195
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.6	11.4	17.2



#10
Hexachlorobutadiene
Concen: 0.406 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.011 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion:	225	Resp:	1363
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.6	52.2	78.4

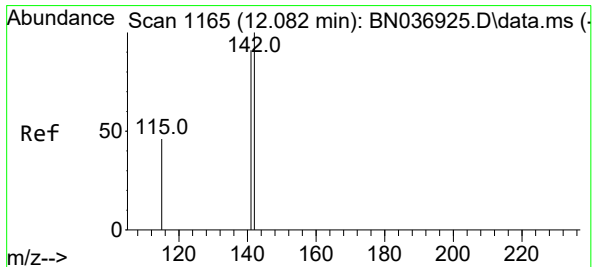
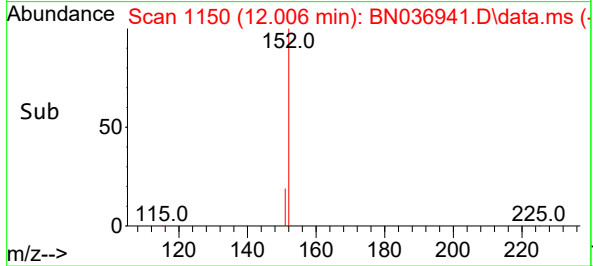
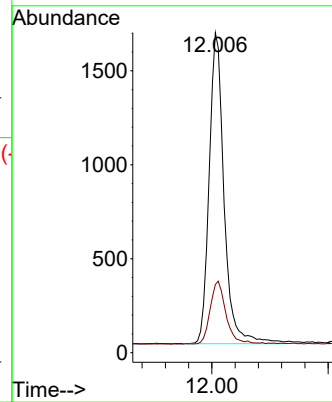
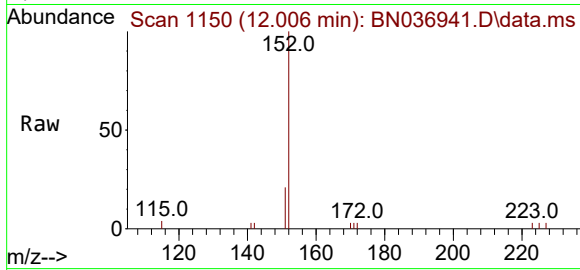




#11
2-Methylnaphthalene-d10
Concen: 0.395 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

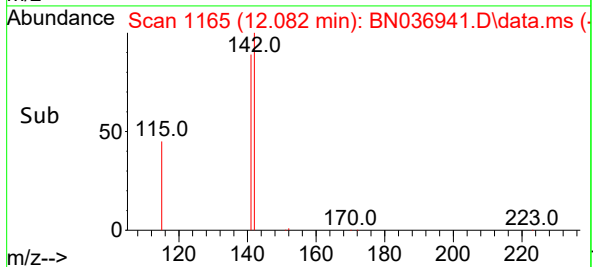
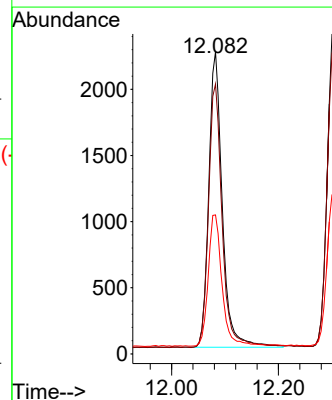
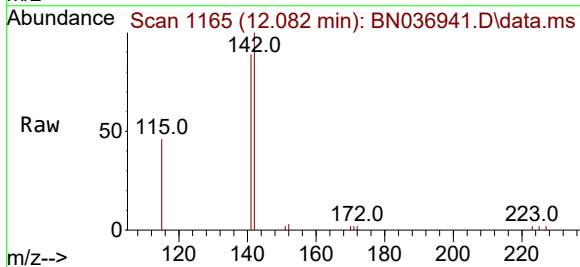
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

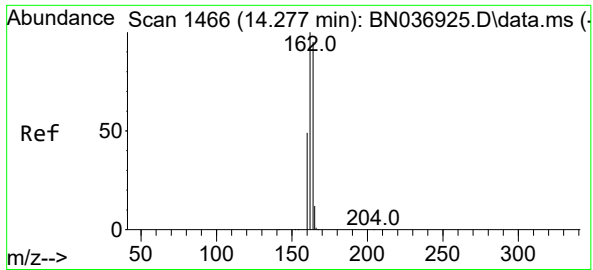
Tgt Ion:152 Resp: 2946
Ion Ratio Lower Upper
152 100
151 21.5 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.395 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion:142 Resp: 3959
Ion Ratio Lower Upper
142 100
141 89.3 72.8 109.2
115 46.0 38.2 57.4

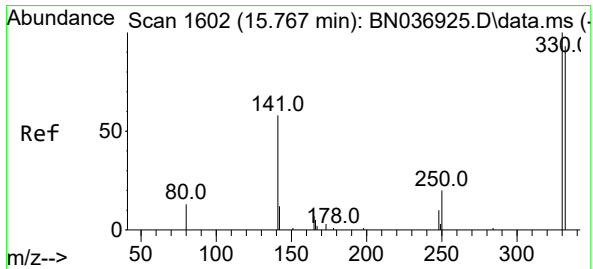
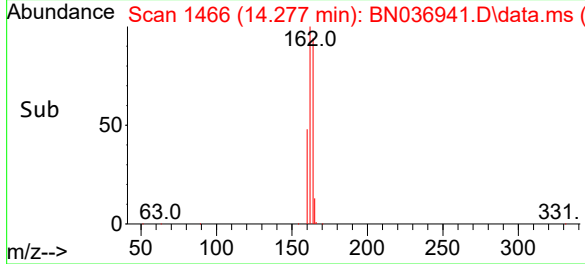
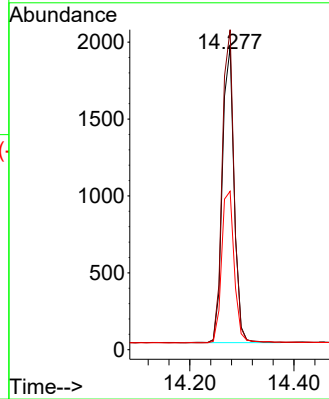
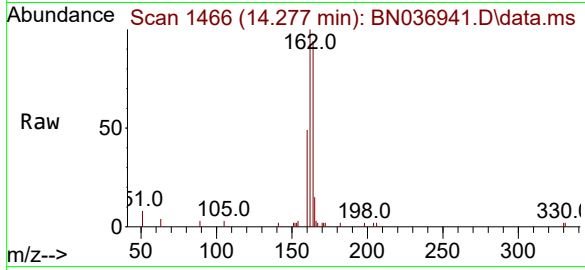




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

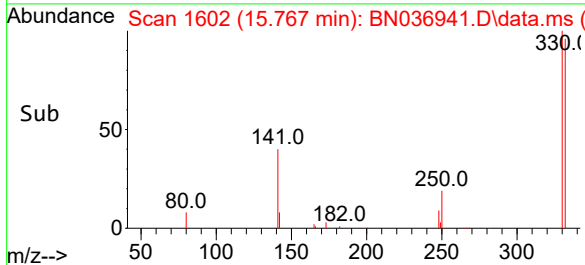
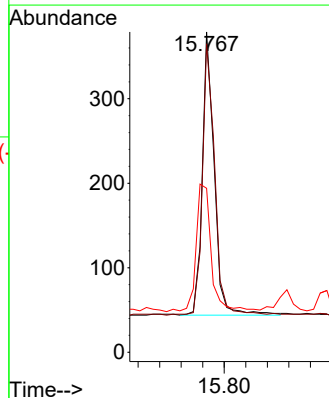
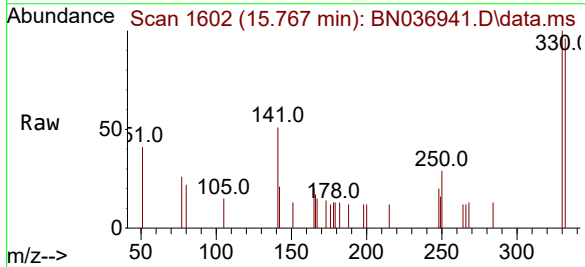
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

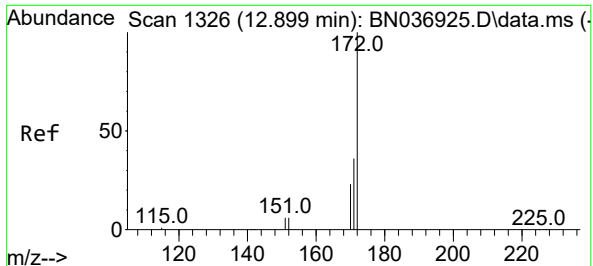
Tgt Ion:	164	Resp:	3019
Ion	Ratio	Lower	Upper
164	100		
162	105.8	83.8	125.8
160	52.4	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 0.383 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion:	330	Resp:	516
Ion	Ratio	Lower	Upper
330	100		
332	99.2	76.3	114.5
141	57.8	45.4	68.2

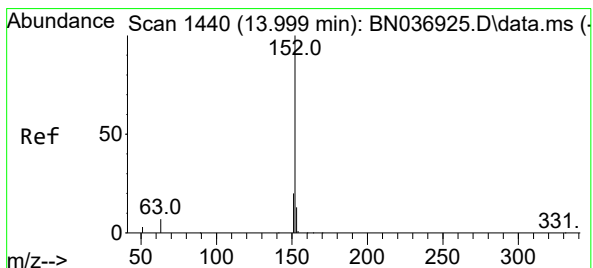
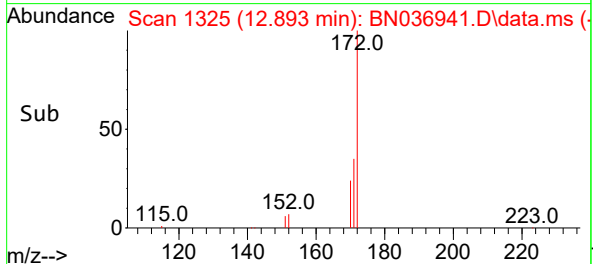
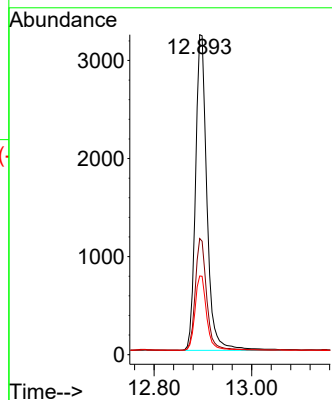
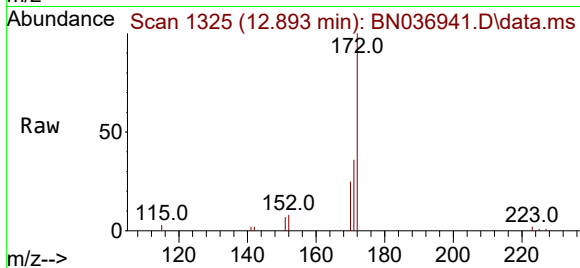




#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.893 min Scan# 1439
Delta R.T. -0.005 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

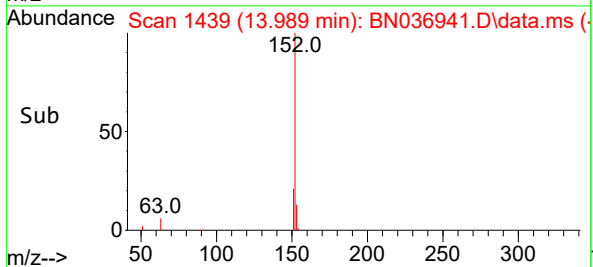
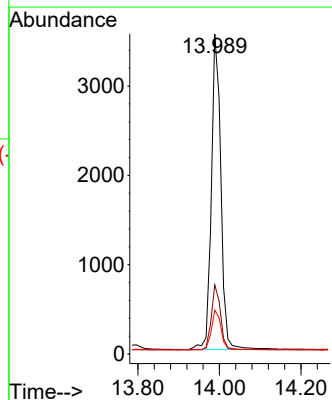
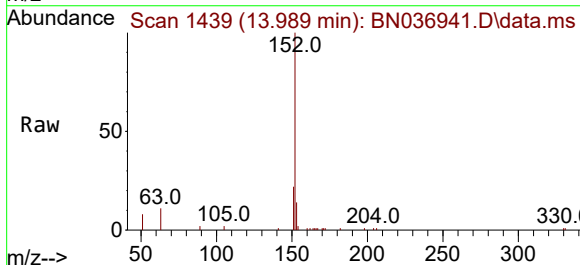
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

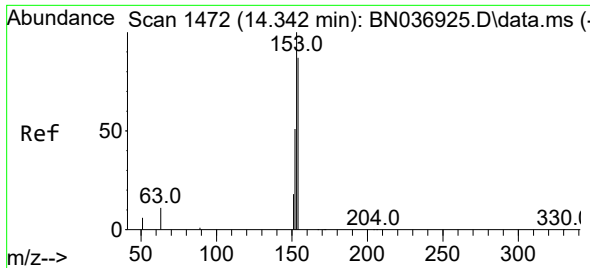
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.4	44.0
170	24.6	19.4	29.0



#16
Acenaphthylene
Concen: 0.388 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0
153	13.0	10.2	15.2

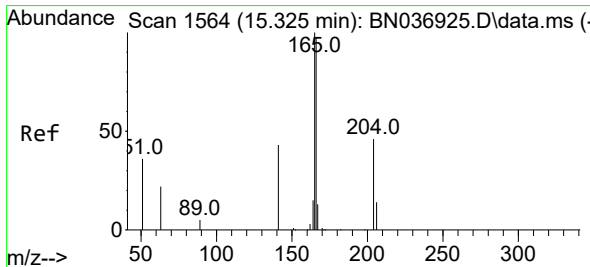
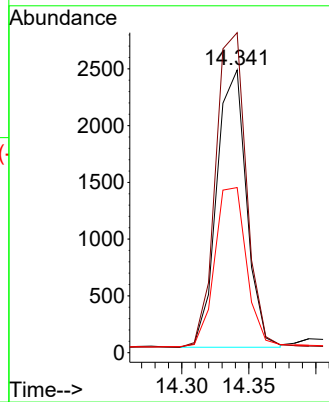
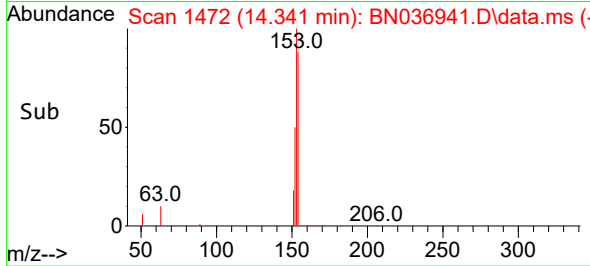
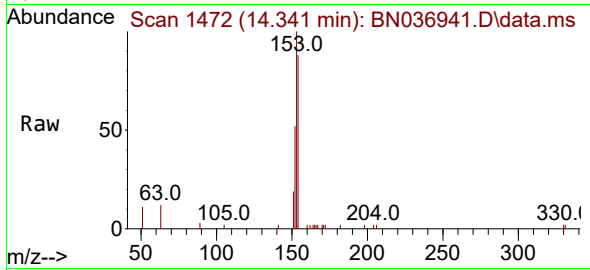




#17
Acenaphthene
Concen: 0.390 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

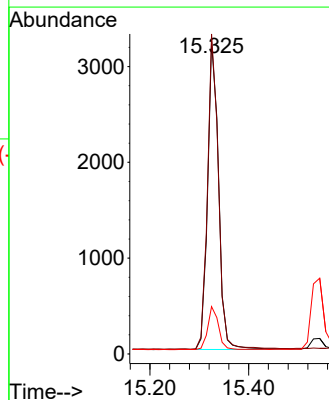
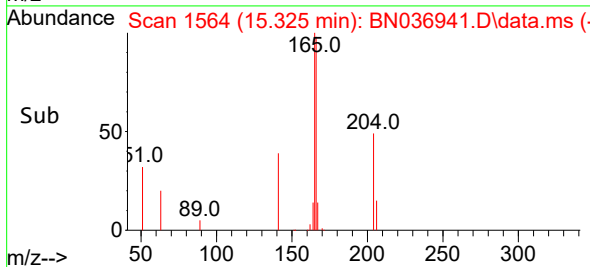
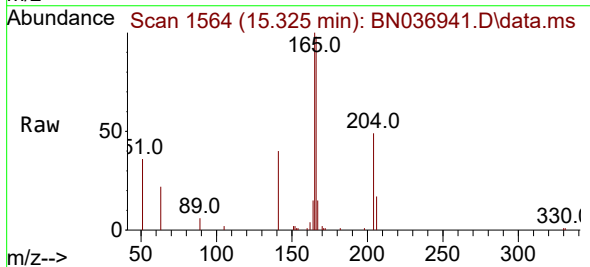
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

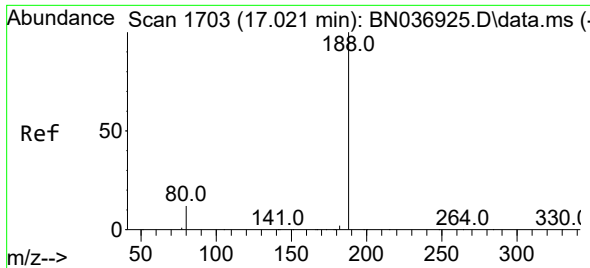
Tgt Ion:154 Resp: 3781
Ion Ratio Lower Upper
154 100
153 117.6 93.4 140.2
152 62.9 49.5 74.3



#18
Fluorene
Concen: 0.390 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion:166 Resp: 4951
Ion Ratio Lower Upper
166 100
165 101.2 80.8 121.2
167 13.7 10.8 16.2

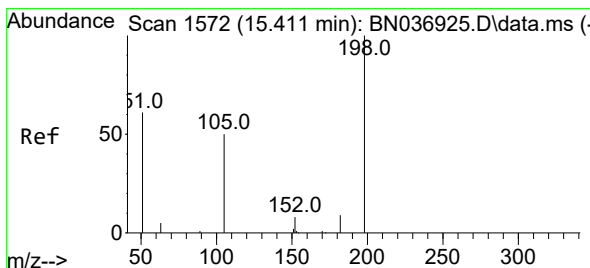
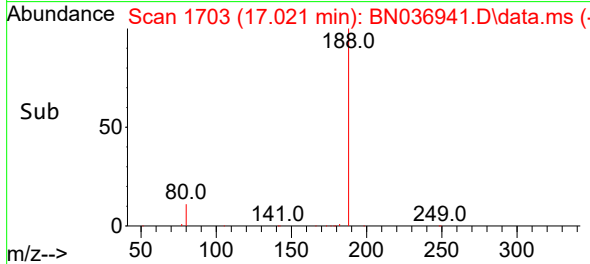
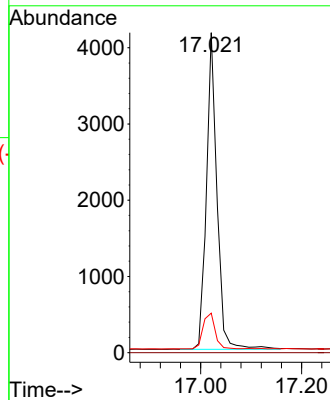
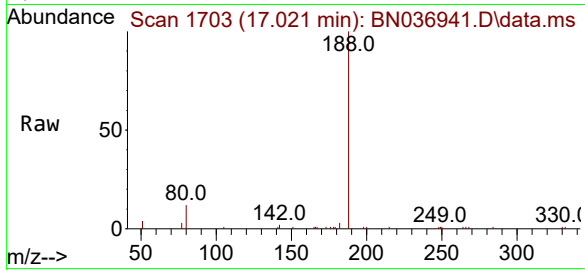




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

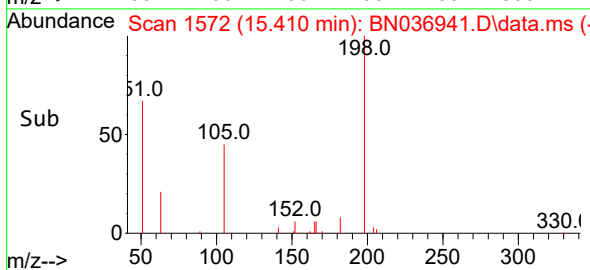
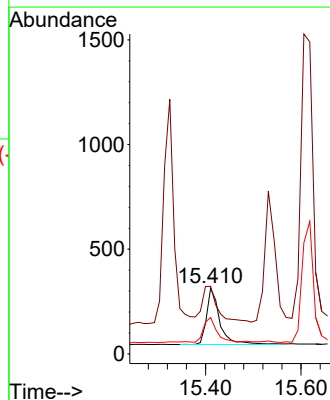
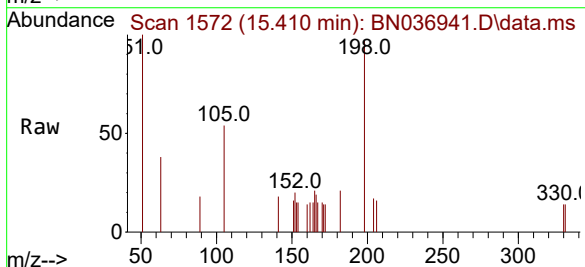
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

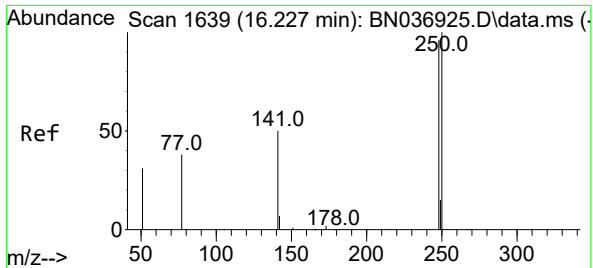
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.3	10.7	16.1



#20
4,6-Dinitro-2-methylphenol
Concen: 0.332 ng
RT: 15.410 min Scan# 1572
Delta R.T. -0.001 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion	Ratio	Lower	Upper
198	100		
51	102.9	97.9	146.9
105	55.4	50.0	75.0

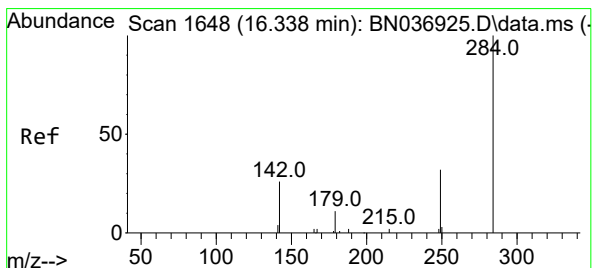
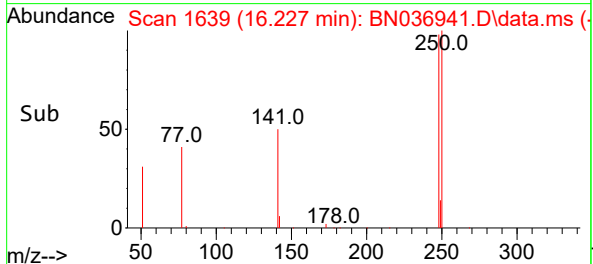
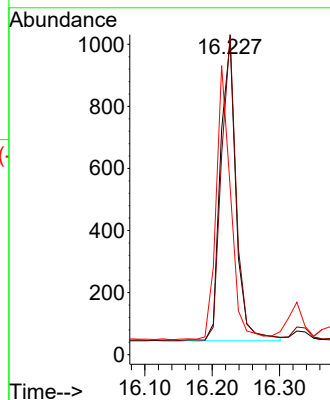
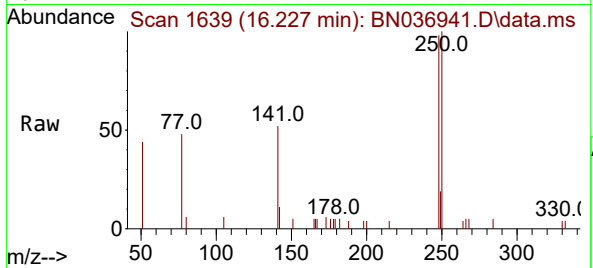




#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

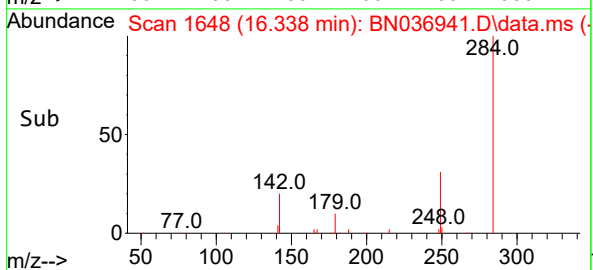
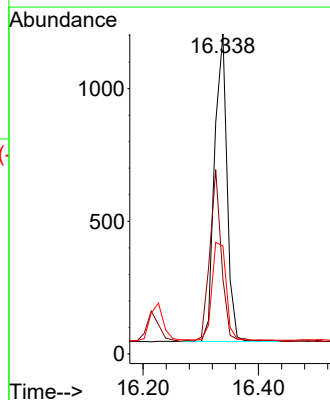
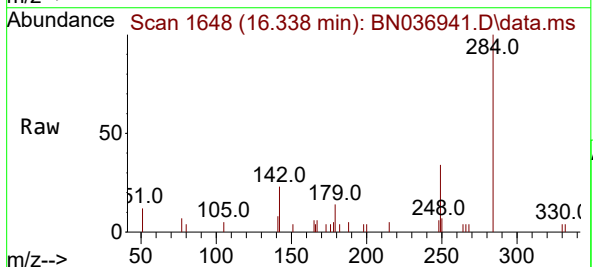
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

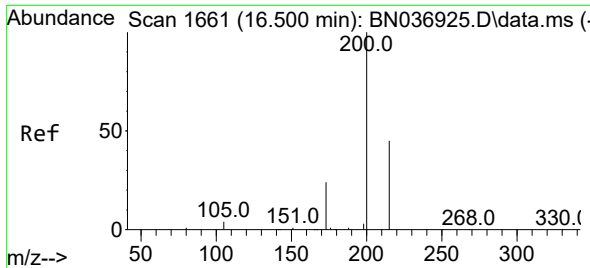
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.9	83.7	125.5
141	53.5	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.393 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion	Ratio	Lower	Upper
284	100		
142	52.2	40.0	60.0
249	36.0	28.2	42.2

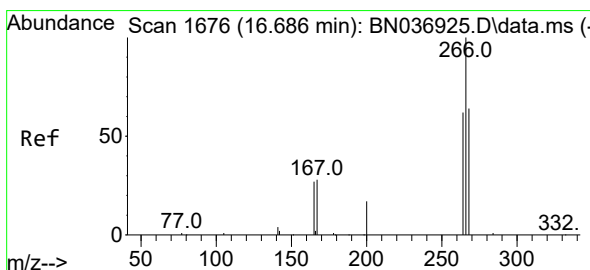
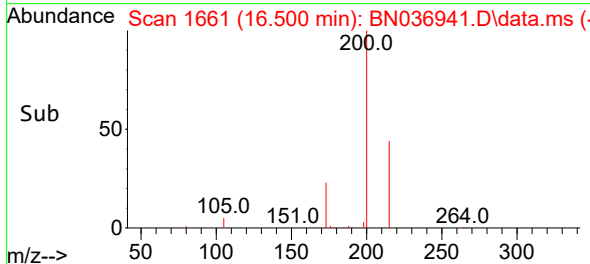
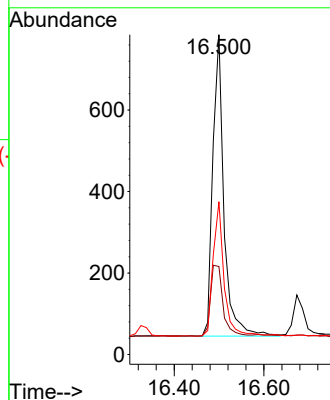
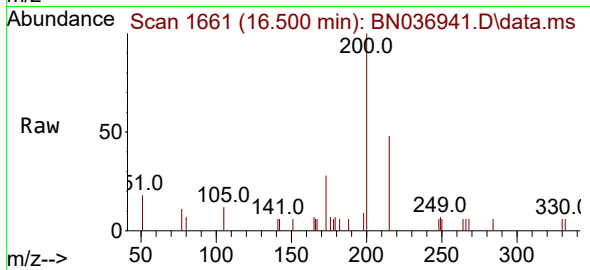




#23
Atrazine
Concen: 0.389 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

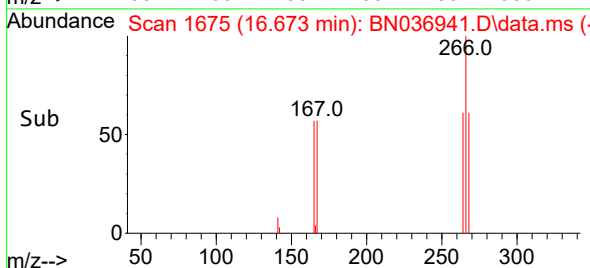
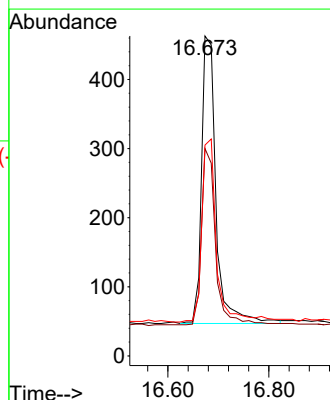
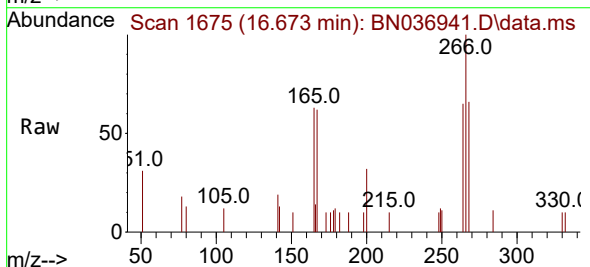
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

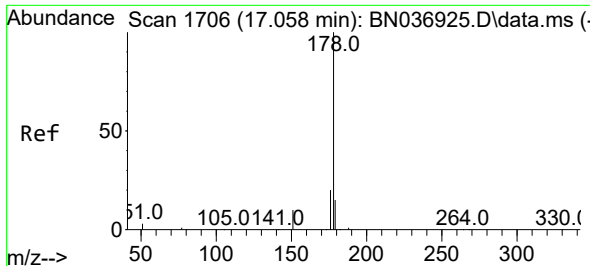
Tgt Ion	Ratio	Lower	Upper
200	100		
173	27.5	22.4	33.6
215	47.8	38.6	57.8



#24
Pentachlorophenol
Concen: 0.349 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion	Ratio	Lower	Upper
266	100		
264	59.4	49.9	74.9
268	65.3	52.2	78.4

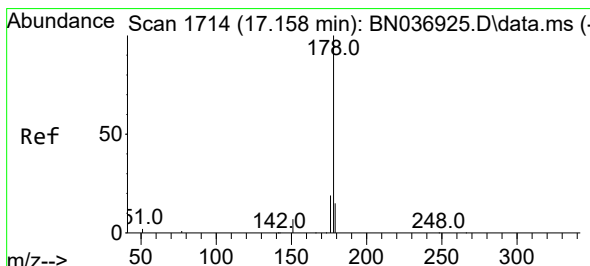
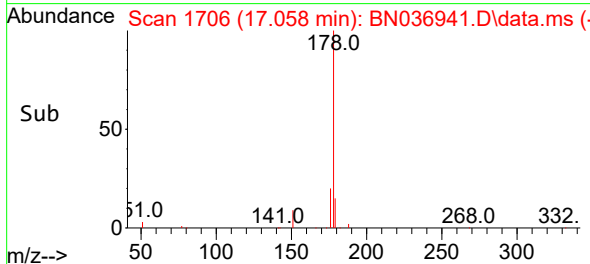
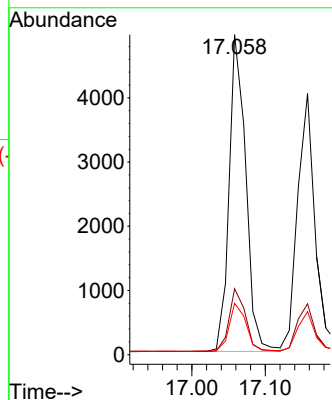
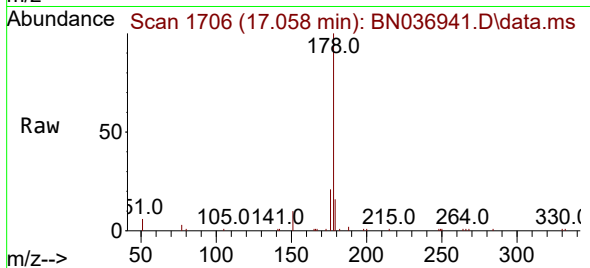




#25
Phenanthrene
Concen: 0.389 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

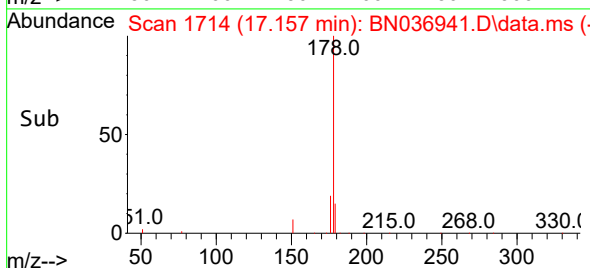
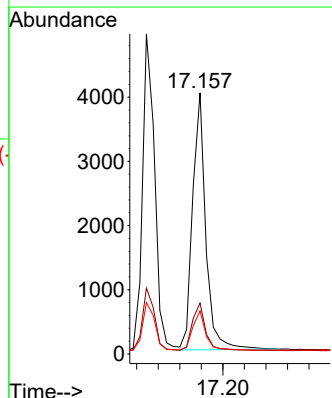
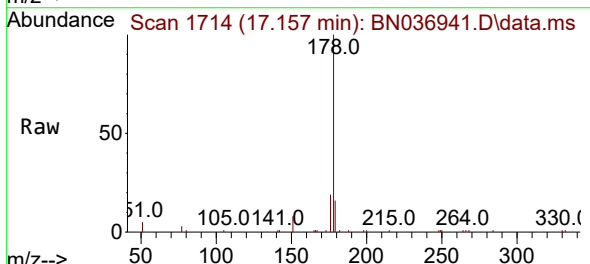
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

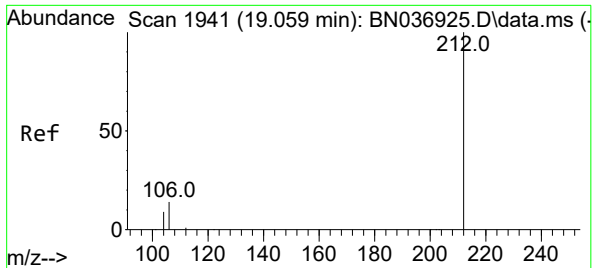
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.7	23.5
179	15.5	12.4	18.6



#26
Anthracene
Concen: 0.377 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.3	22.9
179	15.1	12.1	18.1





#27

Fluoranthene-d10

Concen: 0.395 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036941.D

Acq: 30 Apr 2025 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

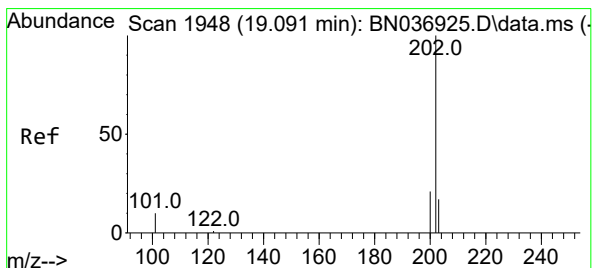
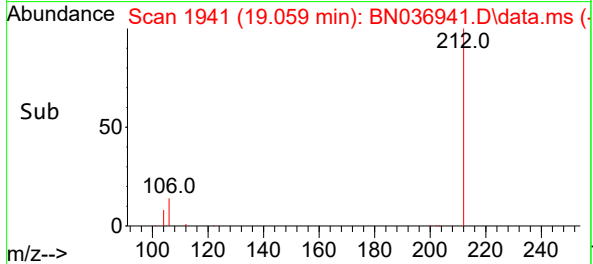
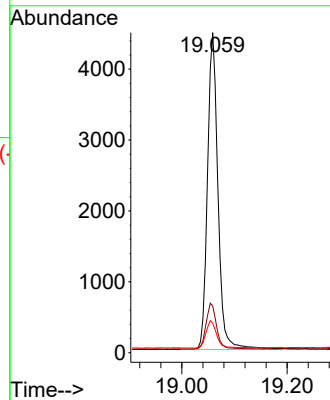
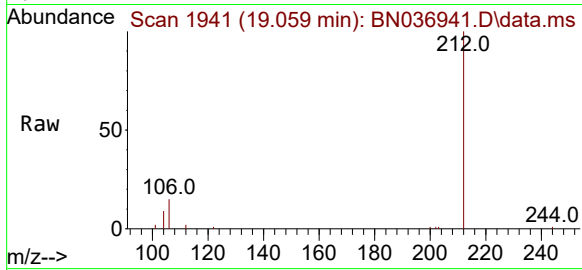
Tgt Ion:212 Resp: 6203

Ion Ratio Lower Upper

212 100

106 14.6 11.6 17.4

104 8.9 7.0 10.4



#28

Fluoranthene

Concen: 0.392 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.000 min

Lab File: BN036941.D

Acq: 30 Apr 2025 10:59

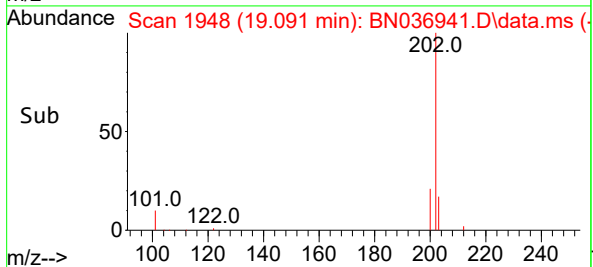
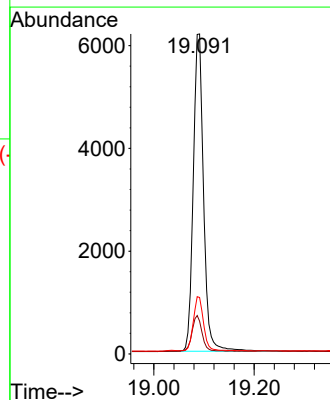
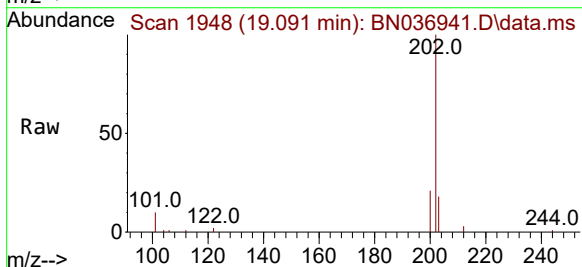
Tgt Ion:202 Resp: 8782

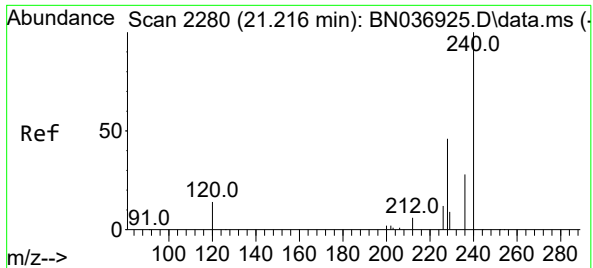
Ion Ratio Lower Upper

202 100

101 11.4 8.5 12.7

203 17.0 13.7 20.5

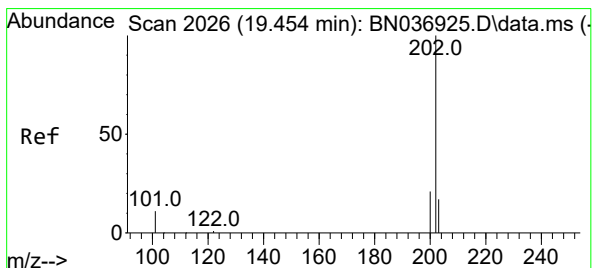
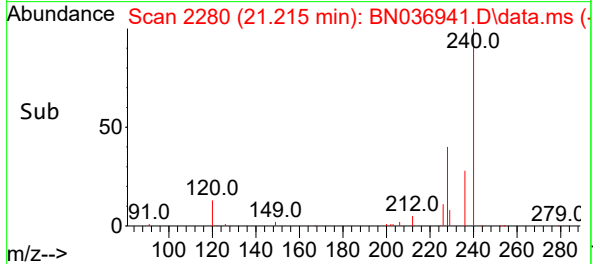
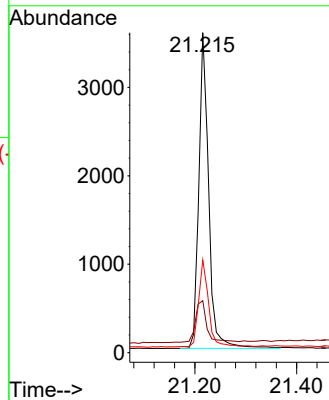
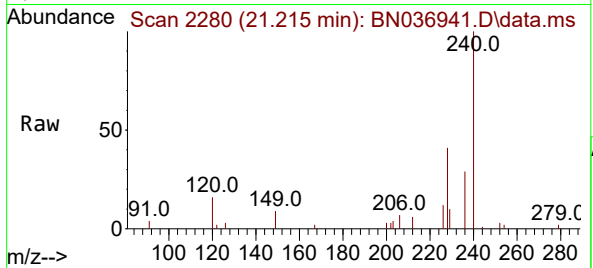




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

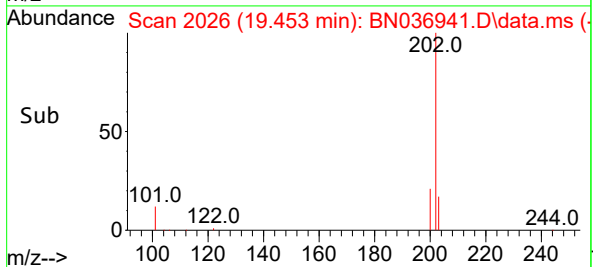
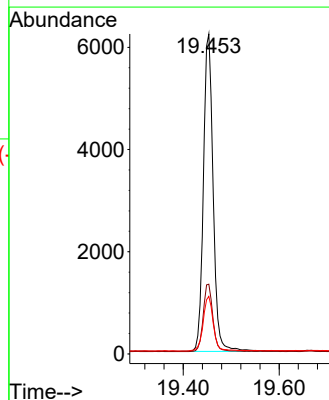
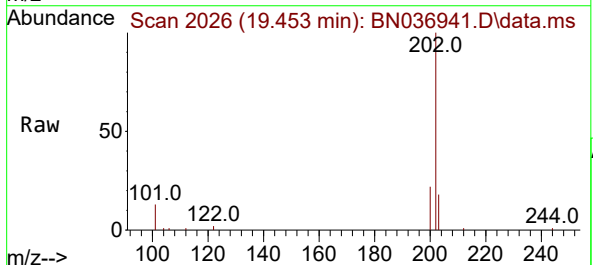
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

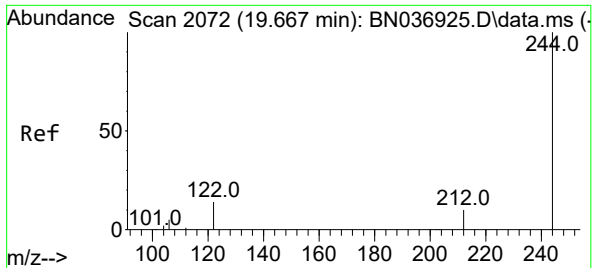
Tgt Ion:240 Resp: 4788
Ion Ratio Lower Upper
240 100
120 16.2 14.1 21.1
236 29.0 23.8 35.8



#30
Pyrene
Concen: 0.381 ng
RT: 19.453 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion:202 Resp: 8781
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.6
203 17.9 14.0 21.0

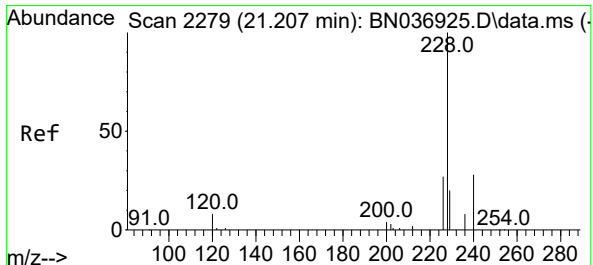
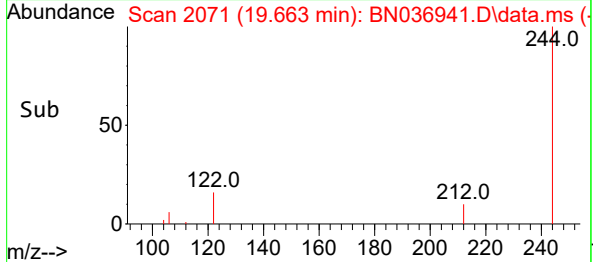
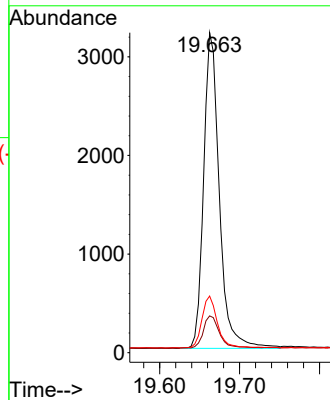
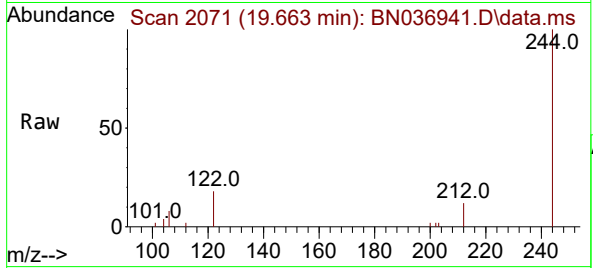




#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.663 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

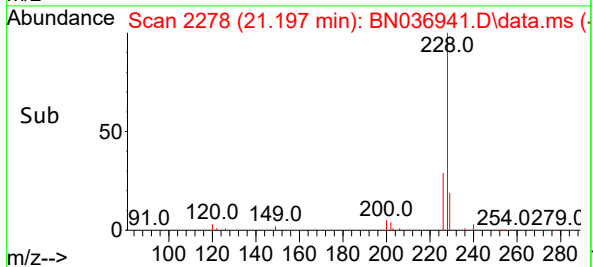
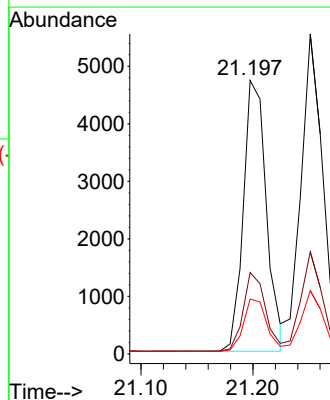
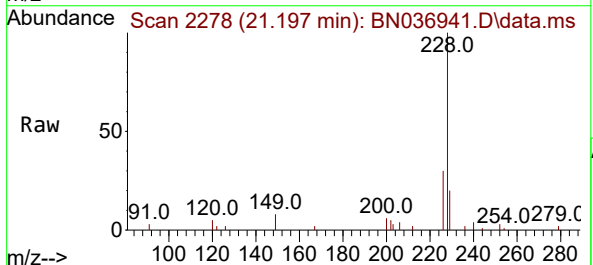
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

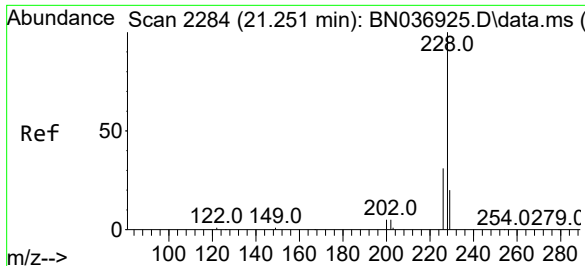
Tgt Ion:244 Resp: 4357
Ion Ratio Lower Upper
244 100
212 11.5 9.6 14.4
122 17.7 12.7 19.1



#32
Benzo(a)anthracene
Concen: 0.383 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion:228 Resp: 6761
Ion Ratio Lower Upper
228 100
226 29.8 22.2 33.4
229 20.1 16.4 24.6

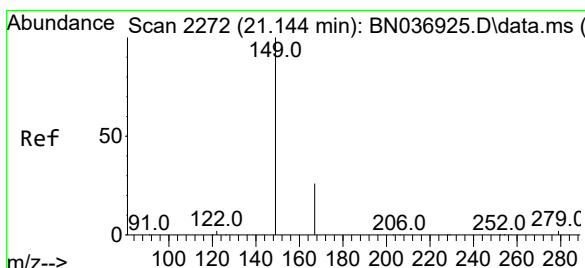
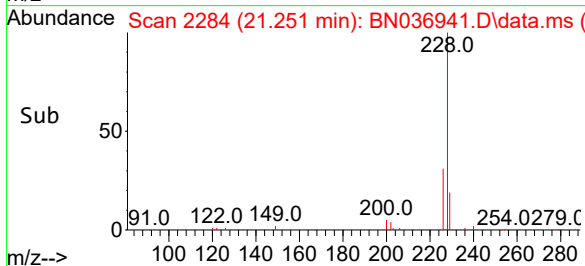
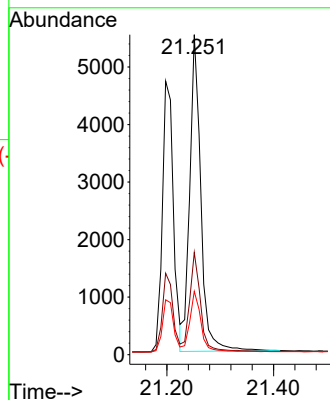
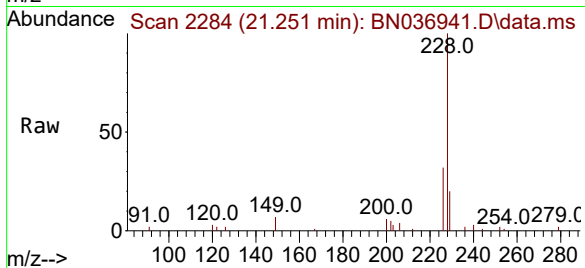




#33
Chrysene
Concen: 0.418 ng
RT: 21.251 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

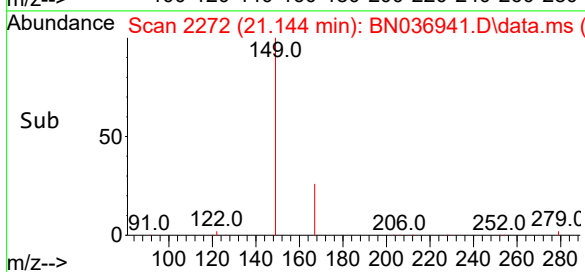
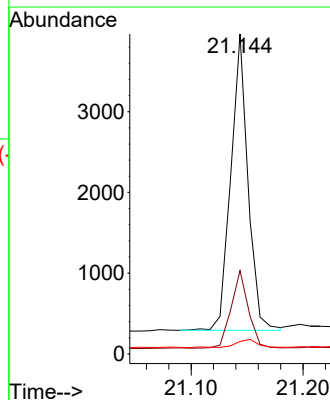
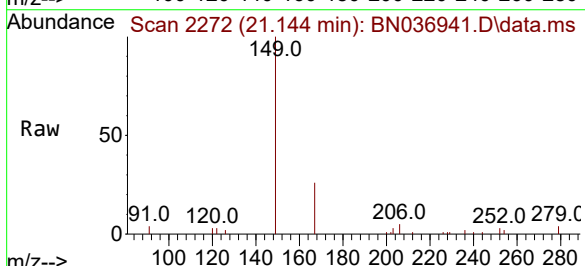
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

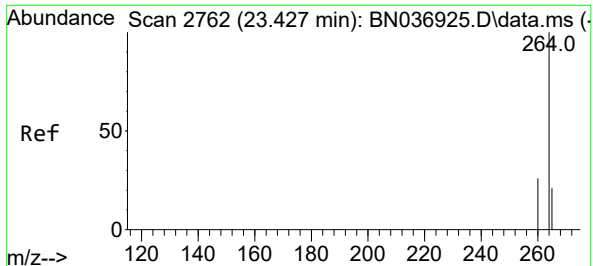
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.9	25.5	38.3
229	19.8	16.5	24.7



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.390 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.0	31.6
279	3.5	2.7	4.1

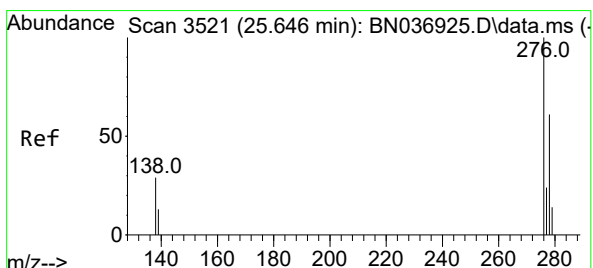
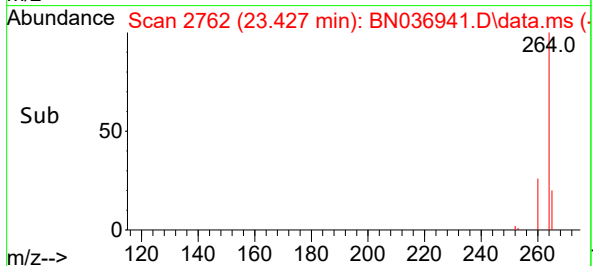
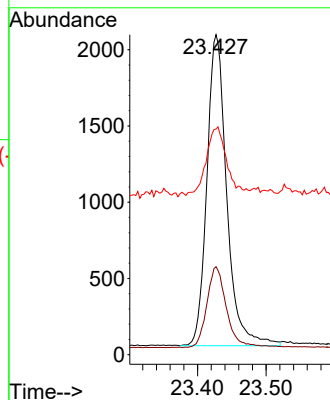
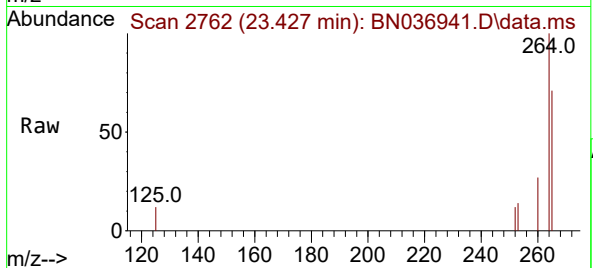




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

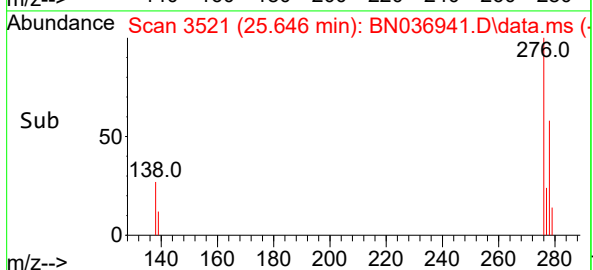
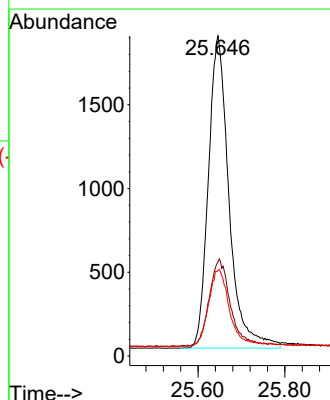
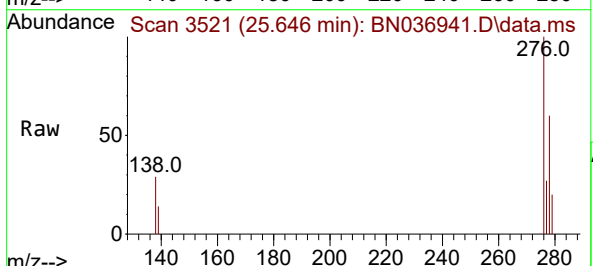
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

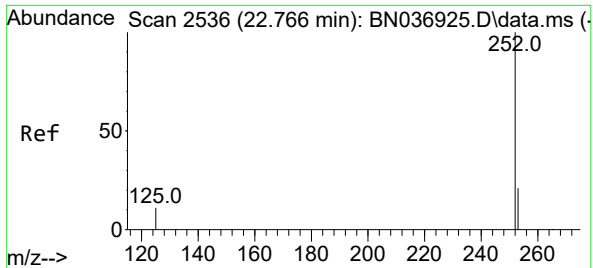
Tgt Ion:264 Resp: 4103
Ion Ratio Lower Upper
264 100
260 27.5 22.2 33.2
265 70.5 65.8 98.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.368 ng
RT: 25.646 min Scan# 3521
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion:276 Resp: 6159
Ion Ratio Lower Upper
276 100
138 27.8 23.0 34.6
277 24.6 20.0 30.0

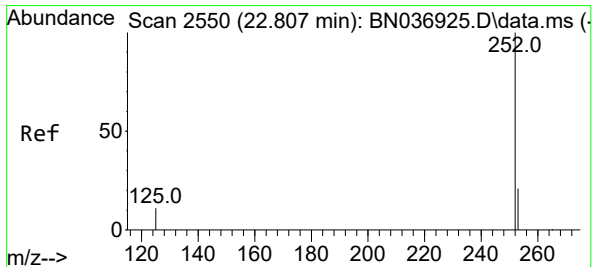
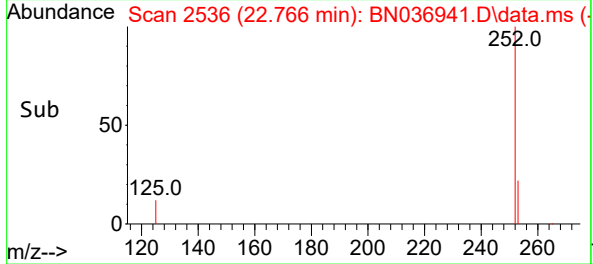
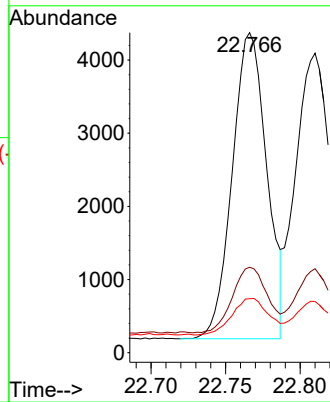
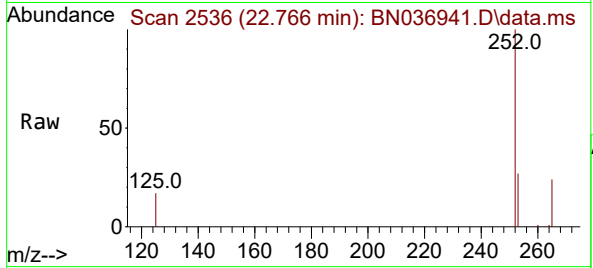




#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.766 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

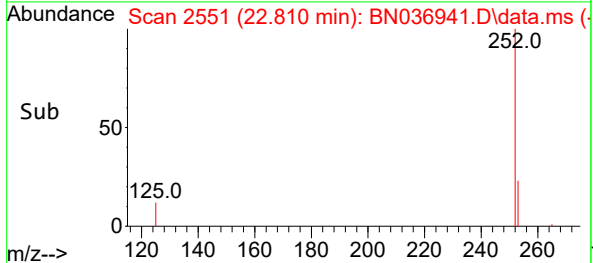
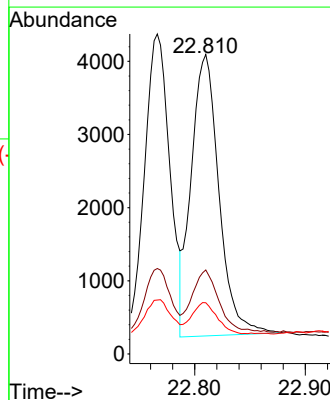
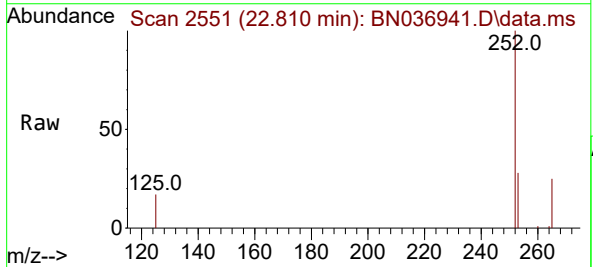
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

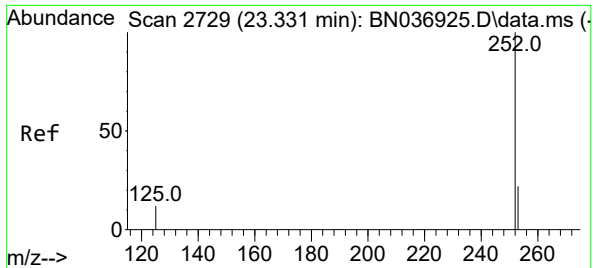
Tgt Ion:252 Resp: 6735
Ion Ratio Lower Upper
252 100
253 26.7 22.1 33.1
125 16.9 14.2 21.2



#38
Benzo(k)fluoranthene
Concen: 0.387 ng
RT: 22.810 min Scan# 2551
Delta R.T. 0.003 min
Lab File: BN036941.D
Acq: 30 Apr 2025 10:59

Tgt Ion:252 Resp: 6709
Ion Ratio Lower Upper
252 100
253 28.0 22.8 34.2
125 17.1 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036941.D

Acq: 30 Apr 2025 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

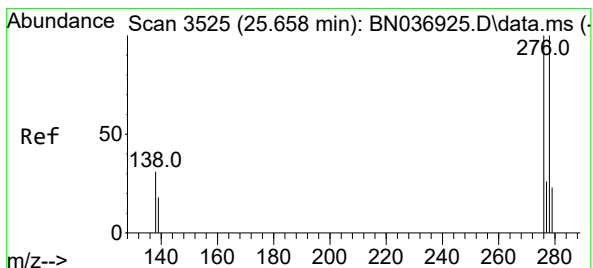
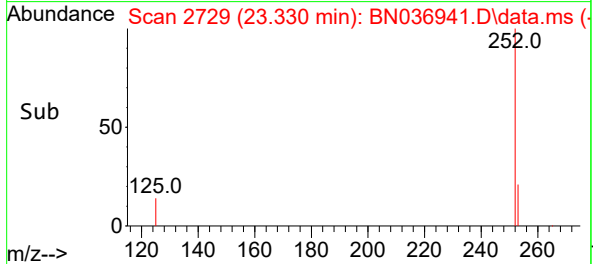
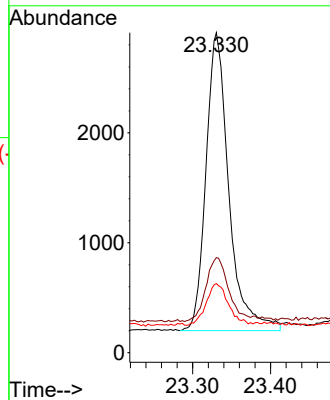
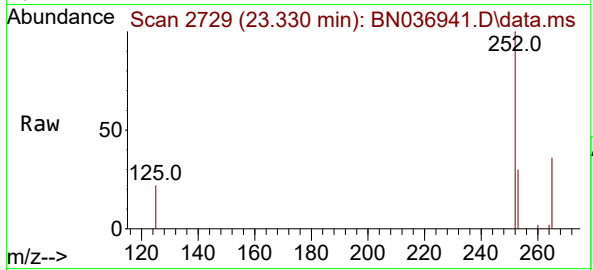
Tgt Ion:252 Resp: 5522

Ion Ratio Lower Upper

252 100

253 29.7 25.9 38.9

125 21.6 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.364 ng

RT: 25.661 min Scan# 3526

Delta R.T. 0.003 min

Lab File: BN036941.D

Acq: 30 Apr 2025 10:59

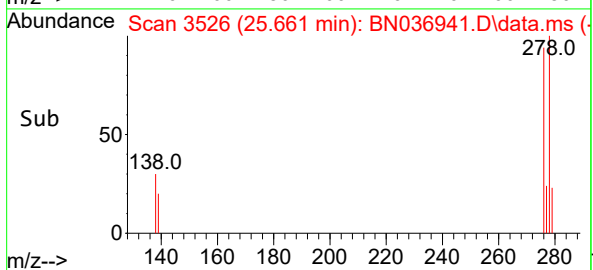
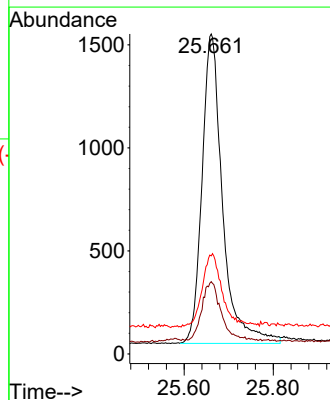
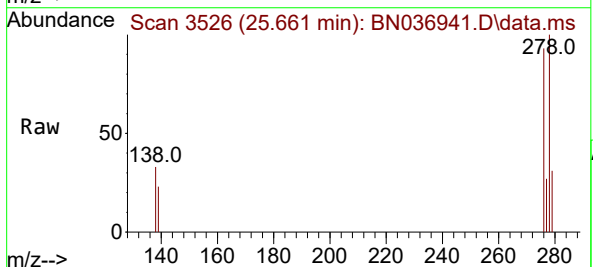
Tgt Ion:278 Resp: 4805

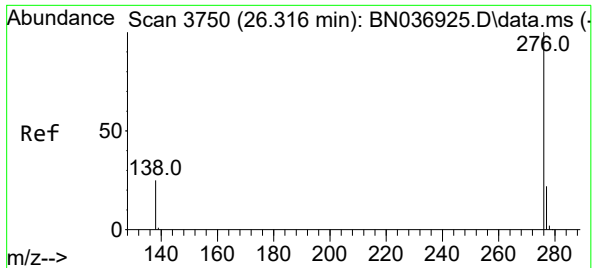
Ion Ratio Lower Upper

278 100

139 22.6 17.4 26.2

279 30.7 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.372 ng

RT: 26.321 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036941.D

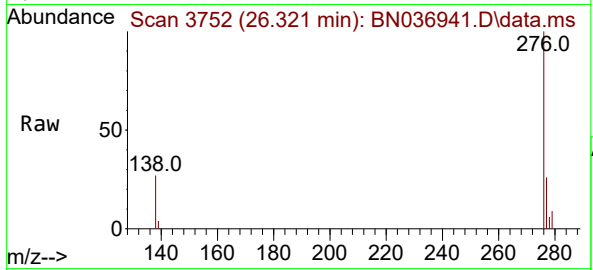
Acq: 30 Apr 2025 10:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



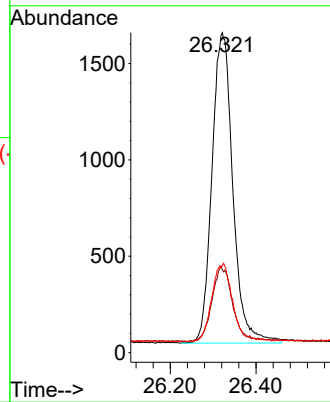
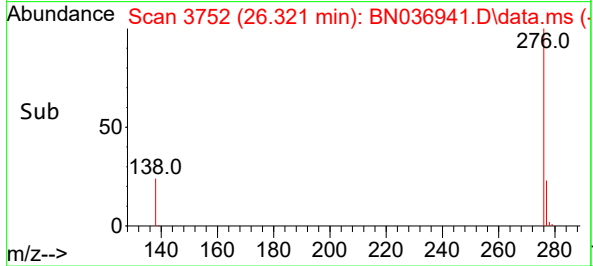
Tgt Ion:276 Resp: 5438

Ion Ratio Lower Upper

276 100

277 25.9 20.2 30.2

138 27.2 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036941.D
Acq On : 30 Apr 2025 10:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Apr 30 11:41:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
2	1,4-Dioxane	0.498	0.530	-6.4	85	0.00
3	n-Nitrosodimethylamine	0.967	0.992	-2.6	86	0.00
4 S	2-Fluorophenol	1.023	1.039	-1.6	82	0.00
5 S	Phenol-d6	1.259	1.276	-1.4	84	0.00
6	bis(2-Chloroethyl)ether	1.167	1.146	1.8	86	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	91	-0.01
8 S	Nitrobenzene-d5	0.418	0.412	1.4	92	0.00
9	Naphthalene	1.164	1.163	0.1	92	0.00
10	Hexachlorobutadiene	0.252	0.256	-1.6	92	-0.01
11 SURR	2-Methylnaphthalene-d10	0.559	0.553	1.1	93	0.00
12	2-Methylnaphthalene	0.753	0.743	1.3	94	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	99	0.00
14 S	2,4,6-Tribromophenol	0.178	0.171	3.9	96	0.00
15 S	2-Fluorobiphenyl	1.933	2.002	-3.6	96	0.00
16	Acenaphthylene	1.955	1.896	3.0	98	-0.01
17	Acenaphthene	1.284	1.252	2.5	97	0.00
18	Fluorene	1.680	1.640	2.4	100	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	106	0.00
20	4,6-Dinitro-2-methylphenol	0.106	0.088	17.0	103	0.00
21	4-Bromophenyl-phenylether	0.267	0.257	3.7	104	0.00
22	Hexachlorobenzene	0.293	0.287	2.0	102	0.00
23	Atrazine	0.215	0.210	2.3	112	0.00
24	Pentachlorophenol	0.157	0.137	12.7	100	-0.01
25	Phenanthrene	1.320	1.285	2.7	105	0.00
26	Anthracene	1.194	1.126	5.7	104	0.00
27 SURR	Fluoranthene-d10	1.037	1.024	1.3	110	0.00
28	Fluoranthene	1.480	1.449	2.1	110	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	116	0.00
30	Pyrene	1.927	1.834	4.8	109	0.00
31 S	Terphenyl-d14	0.944	0.910	3.6	112	0.00
32	Benzo(a)anthracene	1.473	1.412	4.1	115	0.00
33	Chrysene	1.589	1.659	-4.4	118	0.00
34	Bis(2-ethylhexyl)phthalate	0.838	0.816	2.6	114	0.00
35 I	Perylene-d12	1.000	1.000	0.0	113	0.00
36	Indeno(1,2,3-cd)pyrene	1.634	1.501	8.1	99	0.00
37	Benzo(b)fluoranthene	1.682	1.641	2.4	114	0.00
38	Benzo(k)fluoranthene	1.691	1.635	3.3	112	0.00
39 C	Benzo(a)pyrene	1.383	1.346	2.7	112	0.00
40	Dibenzo(a,h)anthracene	1.286	1.171	8.9	98	0.00
41	Benzo(g,h,i)perylene	1.427	1.325	7.1	99	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036941.D
Acq On : 30 Apr 2025 10:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Apr 30 11:41:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	88	0.00
2	1,4-Dioxane	0.400	0.426	-6.5	85	0.00
3	n-Nitrosodimethylamine	0.400	0.410	-2.5	86	0.00
4 S	2-Fluorophenol	0.400	0.406	-1.5	82	0.00
5 S	Phenol-d6	0.400	0.405	-1.3	84	0.00
6	bis(2-Chloroethyl)ether	0.400	0.393	1.8	86	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	91	-0.01
8 S	Nitrobenzene-d5	0.400	0.393	1.8	92	0.00
9	Naphthalene	0.400	0.400	0.0	92	0.00
10	Hexachlorobutadiene	0.400	0.406	-1.5	92	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.395	1.3	93	0.00
12	2-Methylnaphthalene	0.400	0.395	1.3	94	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	99	0.00
14 S	2,4,6-Tribromophenol	0.400	0.383	4.3	96	0.00
15 S	2-Fluorobiphenyl	0.400	0.414	-3.5	96	0.00
16	Acenaphthylene	0.400	0.388	3.0	98	-0.01
17	Acenaphthene	0.400	0.390	2.5	97	0.00
18	Fluorene	0.400	0.390	2.5	100	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	106	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.332	17.0	103	0.00
21	4-Bromophenyl-phenylether	0.400	0.385	3.8	104	0.00
22	Hexachlorobenzene	0.400	0.393	1.8	102	0.00
23	Atrazine	0.400	0.389	2.8	112	0.00
24	Pentachlorophenol	0.400	0.349	12.8	100	-0.01
25	Phenanthrene	0.400	0.389	2.8	105	0.00
26	Anthracene	0.400	0.377	5.8	104	0.00
27 SURR	Fluoranthene-d10	0.400	0.395	1.3	110	0.00
28	Fluoranthene	0.400	0.392	2.0	110	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	116	0.00
30	Pyrene	0.400	0.381	4.8	109	0.00
31 S	Terphenyl-d14	0.400	0.386	3.5	112	0.00
32	Benzo(a)anthracene	0.400	0.383	4.3	115	0.00
33	Chrysene	0.400	0.418	-4.5	118	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.390	2.5	114	0.00
35 I	Perylene-d12	0.400	0.400	0.0	113	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.368	8.0	99	0.00
37	Benzo(b)fluoranthene	0.400	0.390	2.5	114	0.00
38	Benzo(k)fluoranthene	0.400	0.387	3.3	112	0.00
39 C	Benzo(a)pyrene	0.400	0.389	2.8	112	0.00
40	Dibenzo(a,h)anthracene	0.400	0.364	9.0	98	0.00
41	Benzo(g,h,i)perylene	0.400	0.372	7.0	99	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1886 SAS No.: Q1886 SDG No.: Q1886

Instrument ID: BNA_N Calibration Date/Time: 04/30/2025 19:29

Lab File ID: BN036954.D Init. Calib. Date(s): 04/28/2025 04/28/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:35 15:12

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.559	0.551		-1.4	50.0
Fluoranthene-d10	1.037	1.031		-0.6	50.0
2-Fluorophenol	1.023	1.071		4.7	50.0
Phenol-d6	1.259	1.249		-0.8	50.0
Nitrobenzene-d5	0.418	0.418		0.0	50.0
2-Fluorobiphenyl	1.933	1.735		-10.2	50.0
2,4,6-Tribromophenol	0.178	0.181		1.7	50.0
Terphenyl-d14	0.944	0.934		-1.1	50.0
1,4-Dioxane	0.498	0.513		3.0	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
 Data File : BN036954.D
 Acq On : 30 Apr 2025 19:29
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: May 01 01:13:24 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

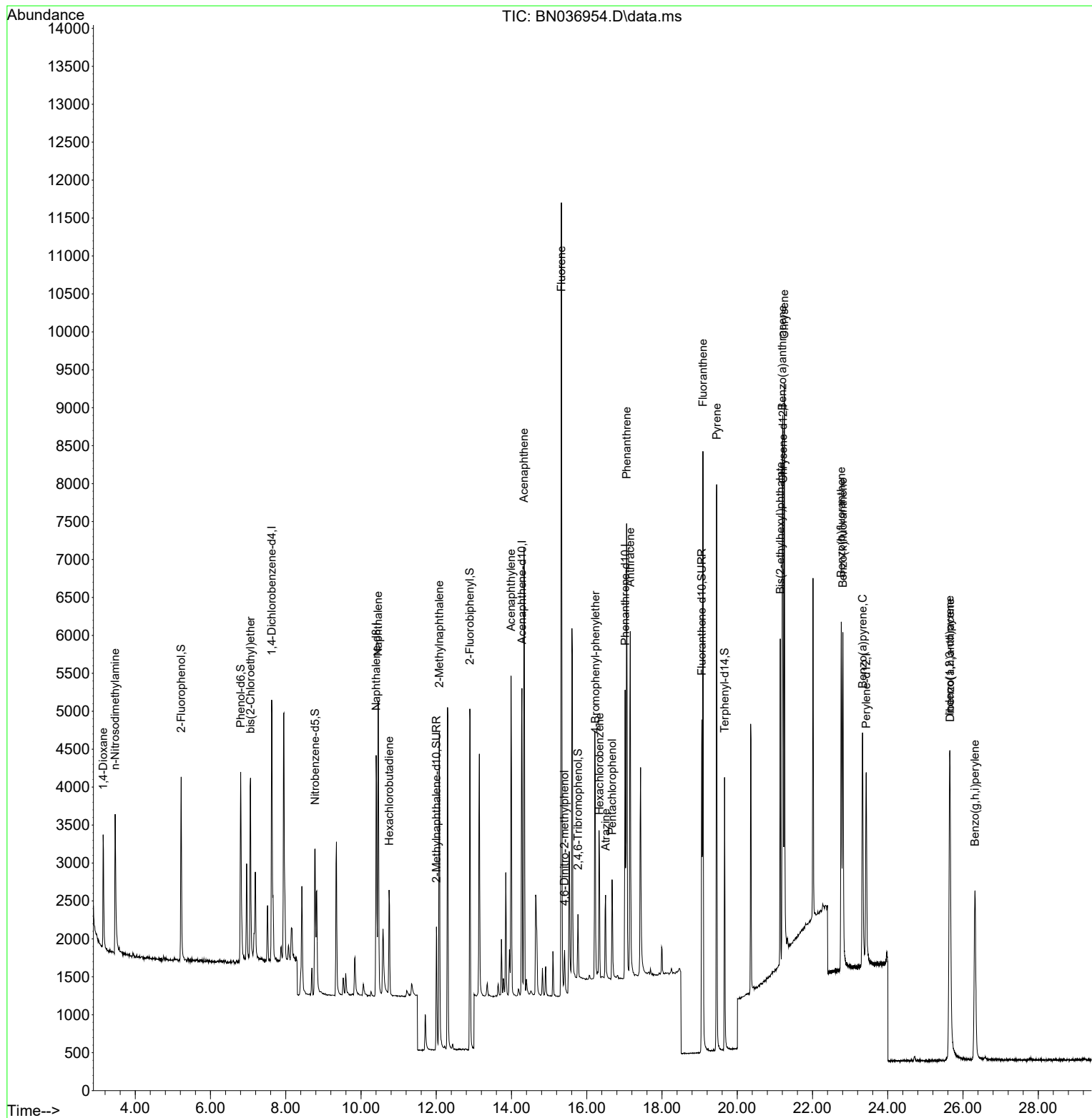
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.625	152	1691	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	4216	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	2363	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	4774	0.400	ng	0.00
29) Chrysene-d12	21.215	240	3800	0.400	ng	0.00
35) Perylene-d12	23.427	264	3445	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	1811	0.419	ng	0.00
5) Phenol-d6	6.802	99	2112	0.397	ng	0.00
8) Nitrobenzene-d5	8.781	82	1762	0.399	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	2321	0.394	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	427	0.405	ng	0.00
15) 2-Fluorobiphenyl	12.893	172	4100	0.359	ng	0.00
27) Fluoranthene-d10	19.059	212	4922	0.398	ng	0.00
31) Terphenyl-d14	19.663	244	3548	0.396	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.148	88	867	0.411	ng	# 89
3) n-Nitrosodimethylamine	3.465	42	1769	0.433	ng	# 89
6) bis(2-Chloroethyl)ether	7.062	93	1848	0.375	ng	98
9) Naphthalene	10.458	128	4864	0.396	ng	99
10) Hexachlorobutadiene	10.746	225	1106	0.417	ng	# 98
12) 2-Methylnaphthalene	12.082	142	3120	0.393	ng	98
16) Acenaphthylene	13.989	152	4465	0.387	ng	99
17) Acenaphthene	14.331	154	3013	0.397	ng	99
18) Fluorene	15.325	166	3948	0.398	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	463	0.366	ng	# 78
21) 4-Bromophenyl-phenylether	16.227	248	1244	0.390	ng	96
22) Hexachlorobenzene	16.338	284	1379	0.395	ng	98
23) Atrazine	16.500	200	1064	0.414	ng	98
24) Pentachlorophenol	16.673	266	644	0.344	ng	99
25) Phenanthrene	17.058	178	6166	0.391	ng	100
26) Anthracene	17.158	178	5520	0.387	ng	100
28) Fluoranthene	19.087	202	7047	0.399	ng	99
30) Pyrene	19.454	202	7025	0.384	ng	100
32) Benzo(a)anthracene	21.198	228	5504	0.393	ng	98
33) Chrysene	21.251	228	6504	0.431	ng	98
34) Bis(2-ethylhexyl)phtha...	21.144	149	3519	0.442	ng	100
36) Indeno(1,2,3-cd)pyrene	25.643	276	5296	0.376	ng	97
37) Benzo(b)fluoranthene	22.763	252	5755	0.397	ng	99
38) Benzo(k)fluoranthene	22.807	252	5713	0.392	ng	98
39) Benzo(a)pyrene	23.330	252	4761	0.400	ng	96
40) Dibenzo(a,h)anthracene	25.655	278	4096	0.370	ng	99
41) Benzo(g,h,i)perylene	26.318	276	4647	0.378	ng	99

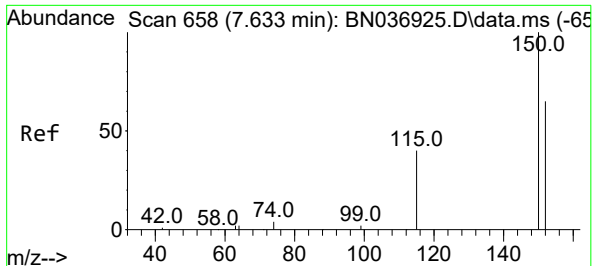
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036954.D
Acq On : 30 Apr 2025 19:29
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

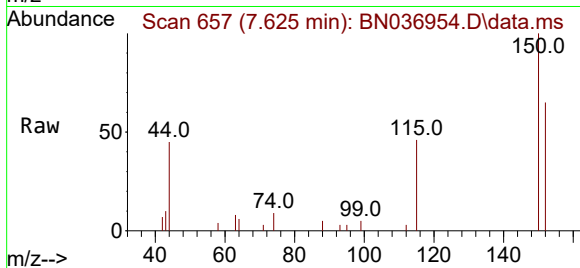
Quant Time: May 01 01:13:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



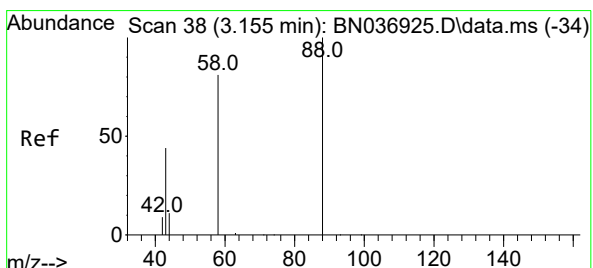
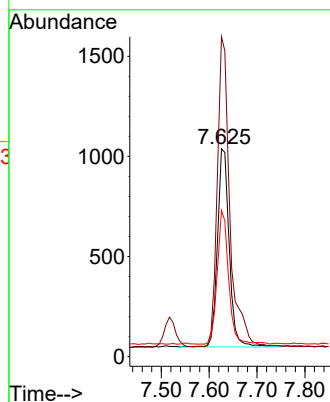


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.625 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

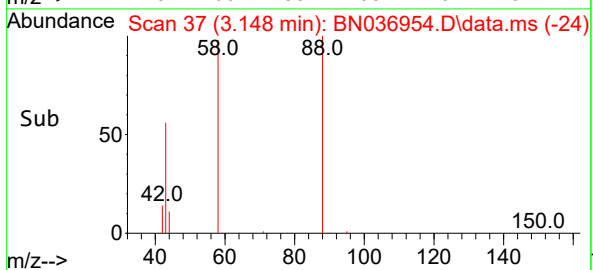
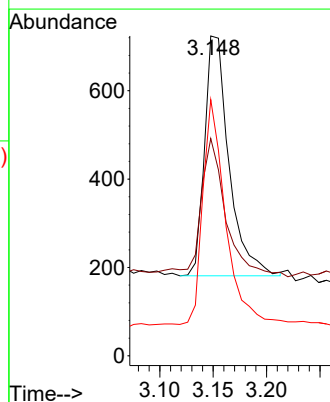
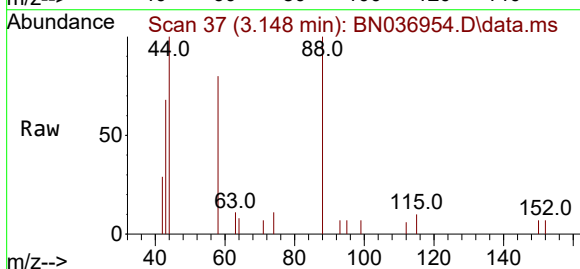


Tgt Ion:152 Resp: 1691
Ion Ratio Lower Upper
152 100
150 153.9 121.1 181.7
115 70.3 51.8 77.6

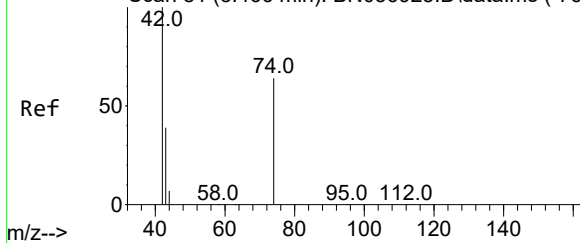


#2
1,4-Dioxane
Concen: 0.411 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

Tgt Ion: 88 Resp: 867
Ion Ratio Lower Upper
88 100
43 60.8 37.9 56.9#
58 87.4 65.8 98.6



Abundance Scan 81 (3.466 min): BN036925.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.433 ng

RT: 3.465 min Scan# 81

Delta R.T. -0.000 min

Lab File: BN036954.D

Acq: 30 Apr 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1769

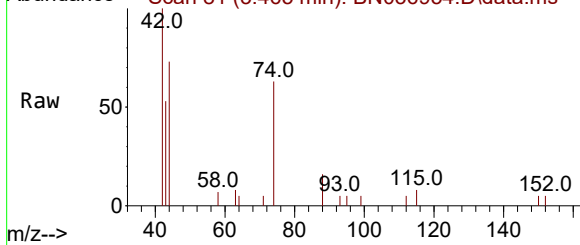
Ion Ratio Lower Upper

42 100

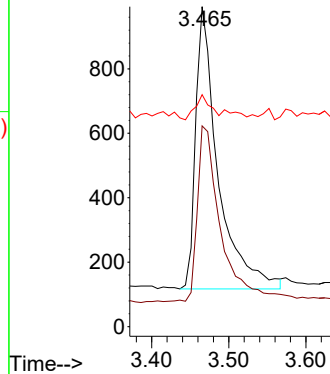
74 65.1 59.9 89.9

44 5.9 7.5 11.3#

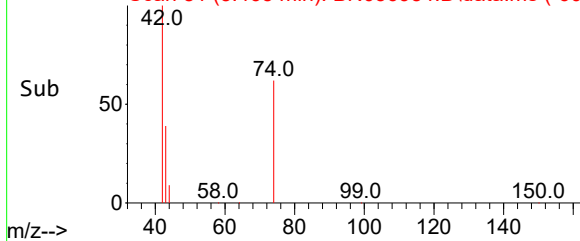
Abundance Scan 81 (3.465 min): BN036954.D\data.ms



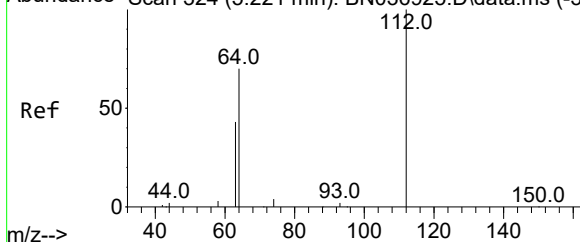
Abundance



Abundance Scan 81 (3.465 min): BN036954.D\data.ms (-60)



Abundance Scan 324 (5.221 min): BN036925.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.419 ng

RT: 5.220 min Scan# 324

Delta R.T. -0.000 min

Lab File: BN036954.D

Acq: 30 Apr 2025 19:29

Tgt Ion: 112 Resp: 1811

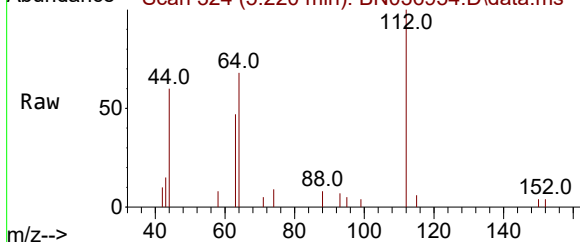
Ion Ratio Lower Upper

112 100

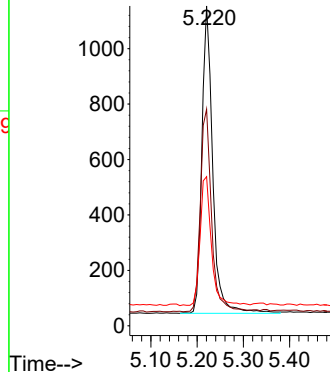
64 67.7 55.7 83.5

63 43.2 33.9 50.9

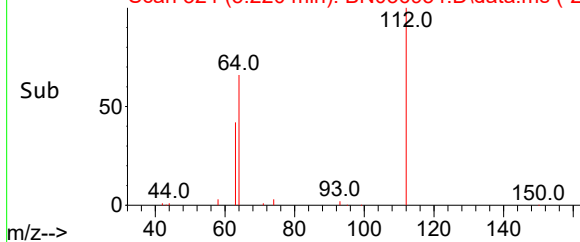
Abundance Scan 324 (5.220 min): BN036954.D\data.ms

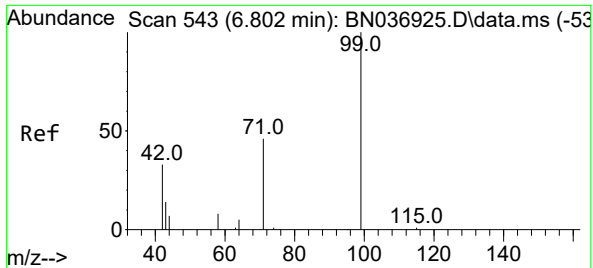


Abundance



Abundance Scan 324 (5.220 min): BN036954.D\data.ms (-29)

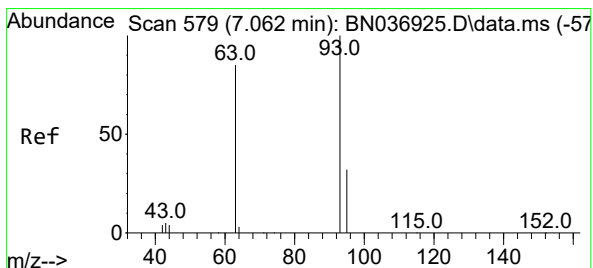
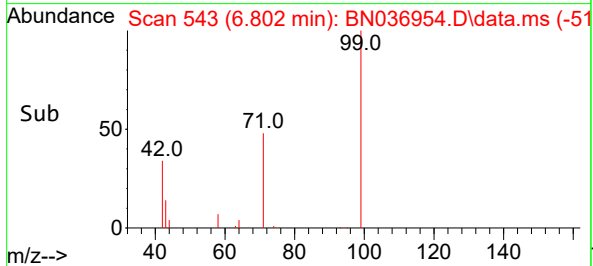
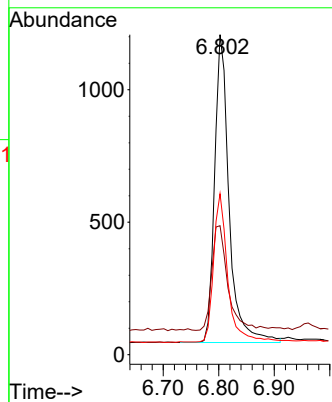
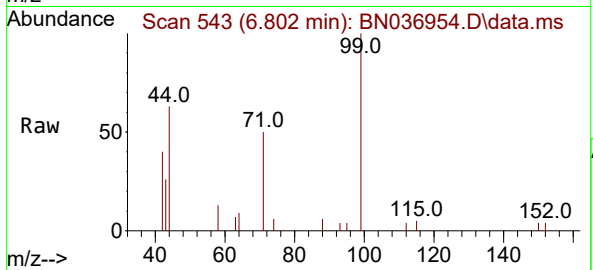




#5
Phenol-d6
Concen: 0.397 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

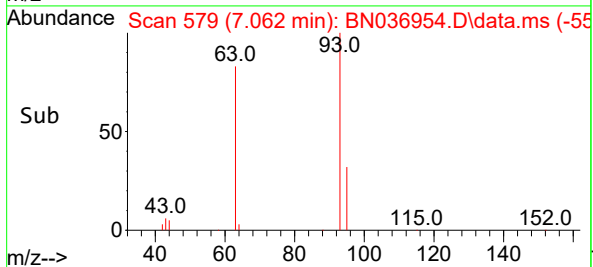
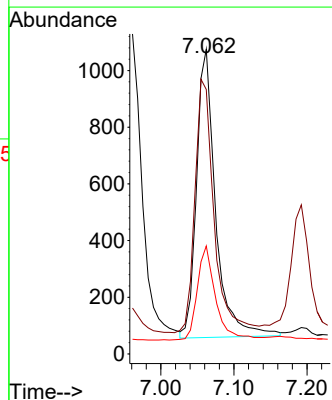
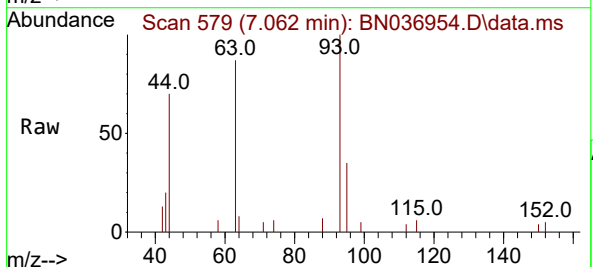
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

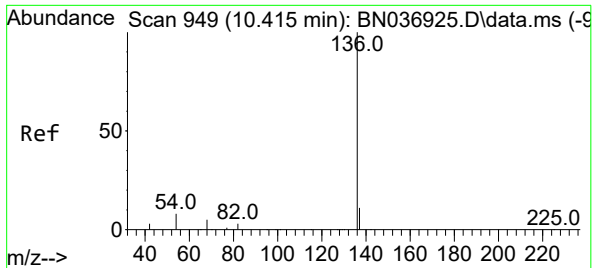
Tgt Ion: 99 Resp: 2112
Ion Ratio Lower Upper
99 100
42 37.9 29.6 44.4
71 47.6 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

Tgt Ion: 93 Resp: 1848
Ion Ratio Lower Upper
93 100
63 88.1 69.0 103.6
95 31.3 25.4 38.0

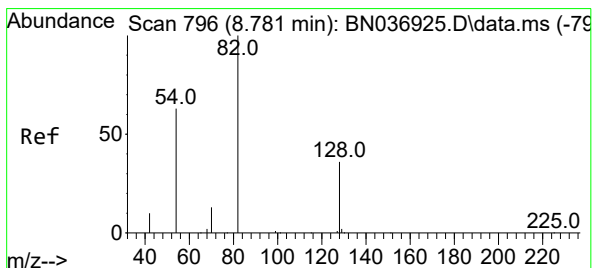
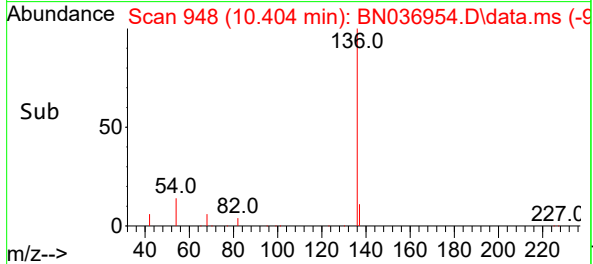
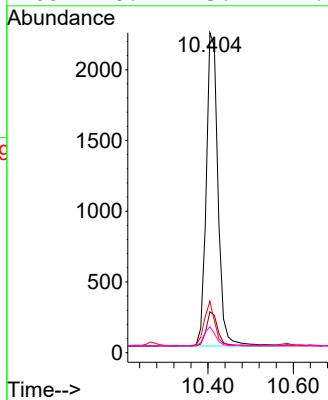
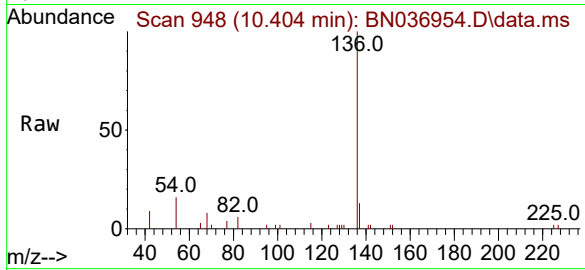




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

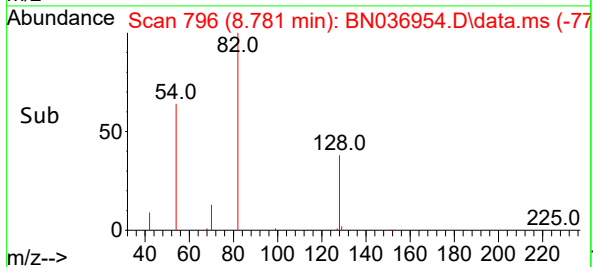
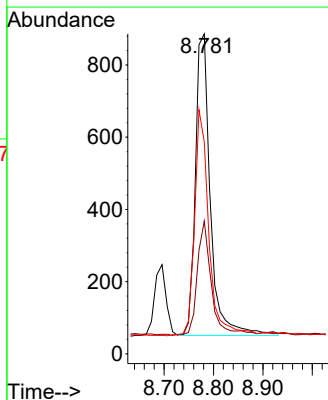
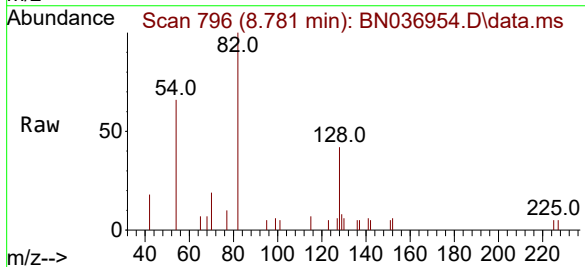
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

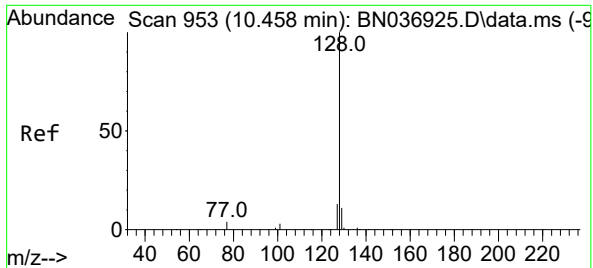
Tgt Ion:	136	Resp:	4216
Ion	Ratio	Lower	Upper
136	100		
137	12.8	9.7	14.5
54	16.0	8.0	12.0#
68	8.1	5.1	7.7#



#8
Nitrobenzene-d5
Concen: 0.399 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

Tgt Ion:	82	Resp:	1762
Ion	Ratio	Lower	Upper
82	100		
128	41.5	30.7	46.1
54	66.3	52.1	78.1

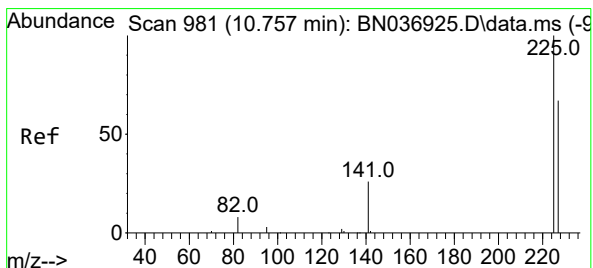
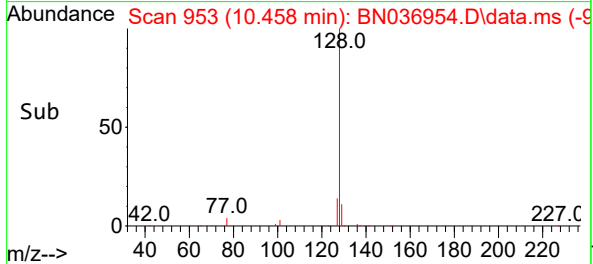
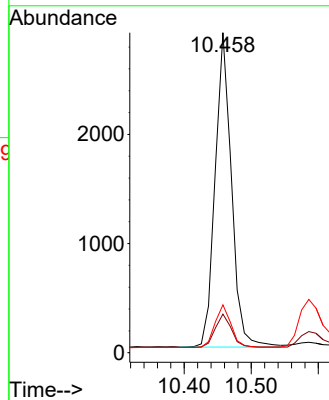
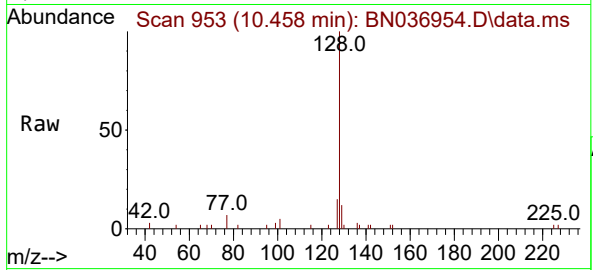




#9
Naphthalene
Concen: 0.396 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

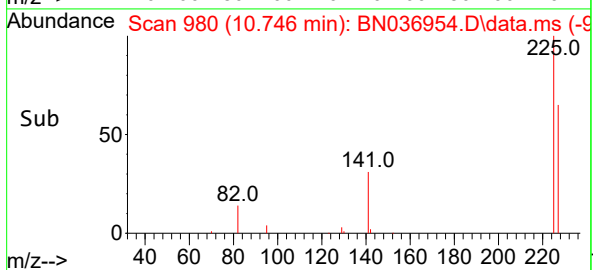
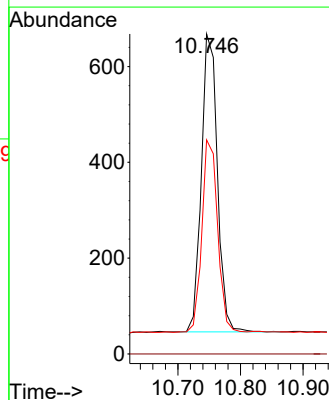
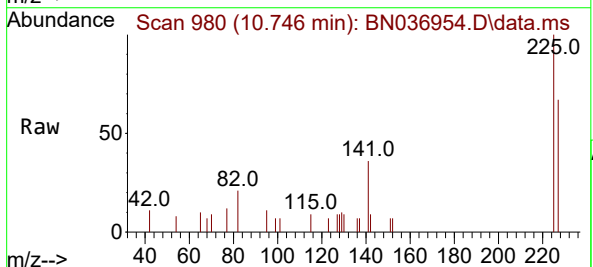
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

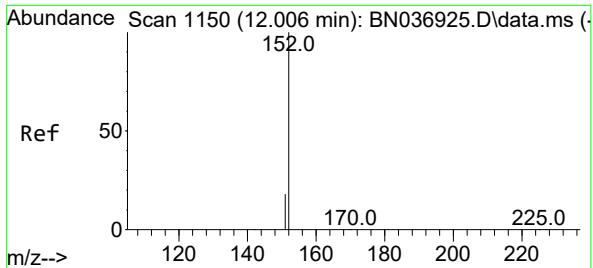
Tgt Ion:	128	Resp:	4864
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	14.9	11.4	17.2



#10
Hexachlorobutadiene
Concen: 0.417 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.011 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

Tgt Ion:	225	Resp:	1106
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	52.2	78.4

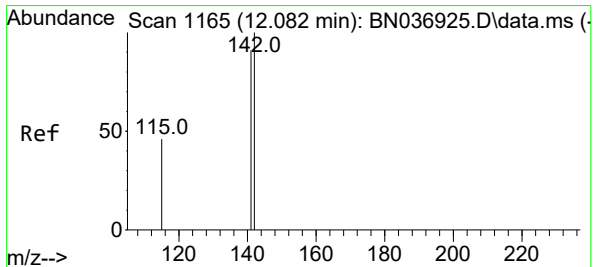
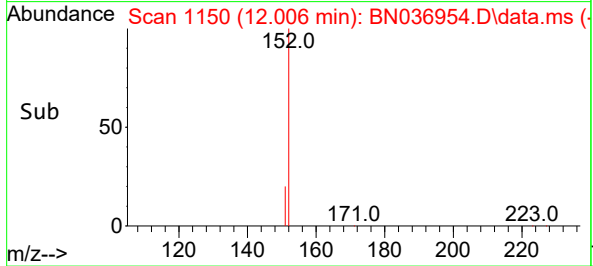
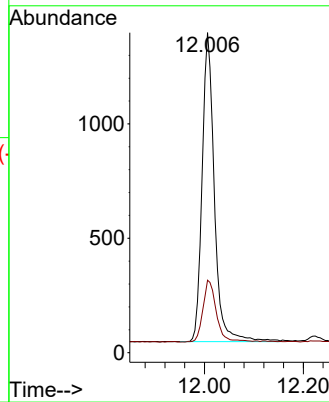
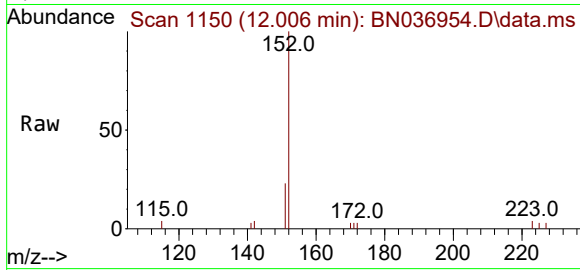




#11
2-Methylnaphthalene-d10
Concen: 0.394 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

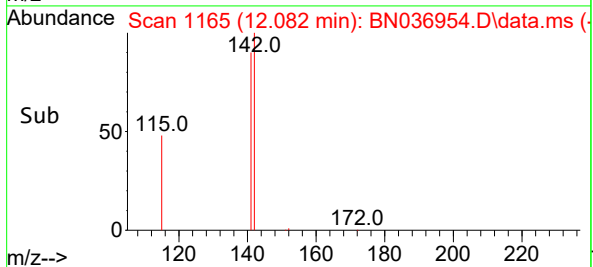
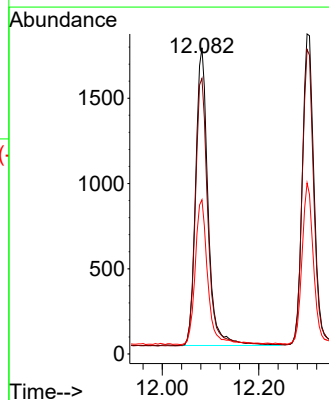
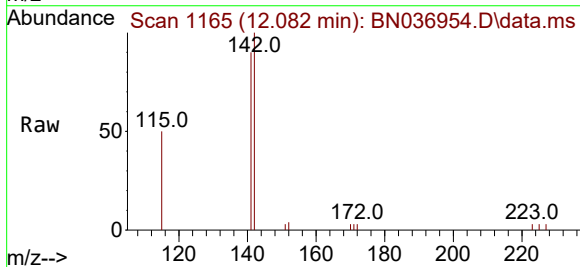
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

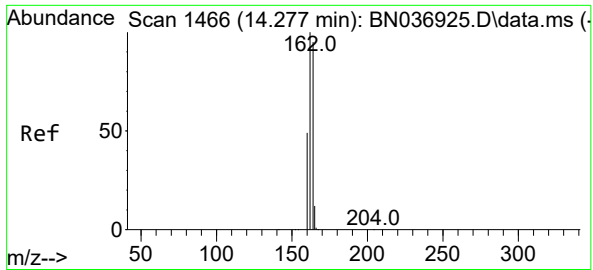
Tgt Ion:152 Resp: 2321
Ion Ratio Lower Upper
152 100
151 21.8 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.393 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

Tgt Ion:142 Resp: 3120
Ion Ratio Lower Upper
142 100
141 90.0 72.8 109.2
115 50.4 38.2 57.4

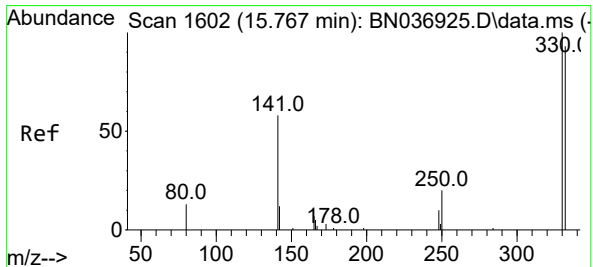
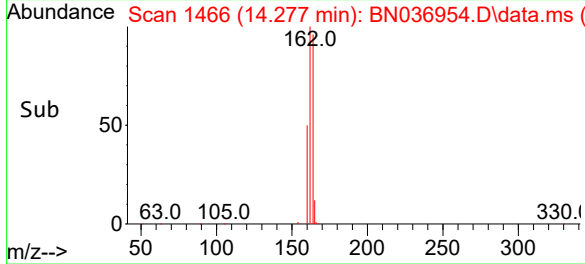
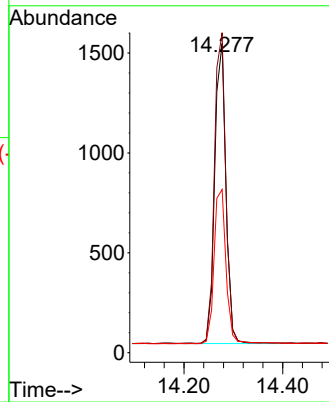
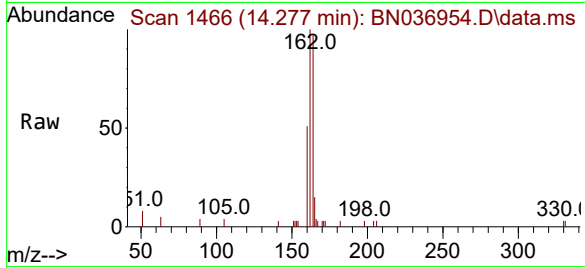




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

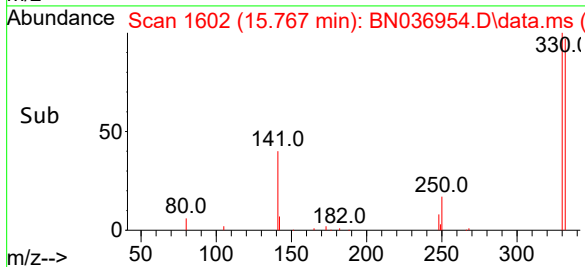
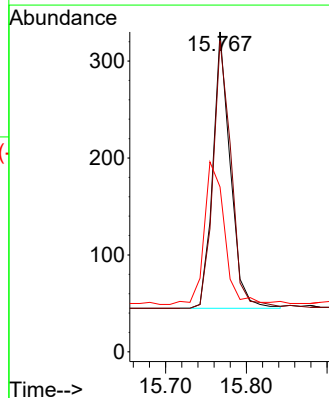
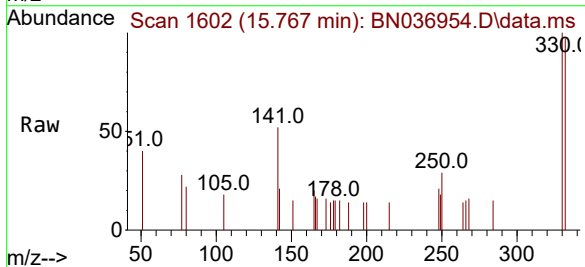
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

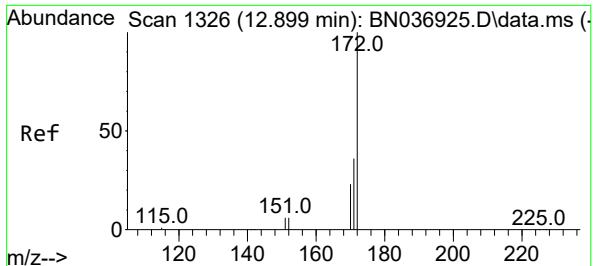
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.5	83.8	125.8
160	52.8	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 0.405 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

Tgt Ion	Ratio	Lower	Upper
330	100		
332	102.1	76.3	114.5
141	60.4	45.4	68.2





#15

2-Fluorobiphenyl

Concen: 0.359 ng

RT: 12.893 min Scan# 1439

Delta R.T. -0.005 min

Lab File: BN036954.D

Acq: 30 Apr 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

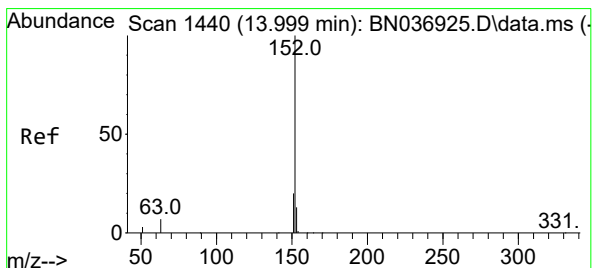
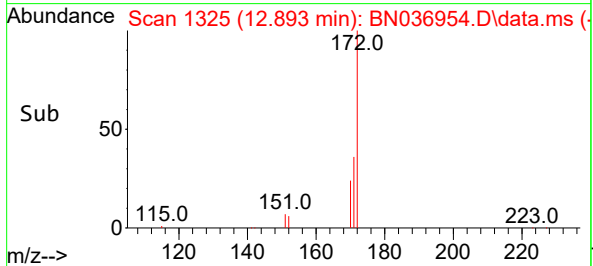
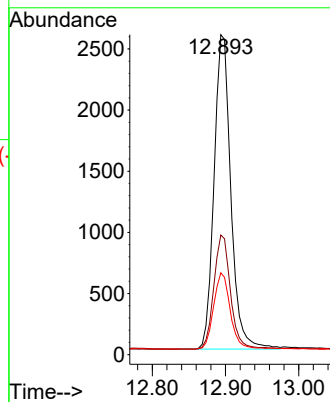
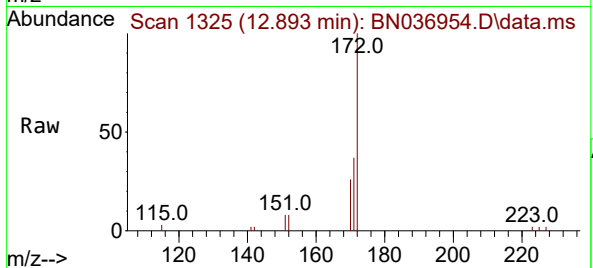
Tgt Ion:172 Resp: 4100

Ion Ratio Lower Upper

172 100

171 37.4 29.4 44.0

170 25.6 19.4 29.0



#16

Acenaphthylene

Concen: 0.387 ng

RT: 13.989 min Scan# 1439

Delta R.T. -0.011 min

Lab File: BN036954.D

Acq: 30 Apr 2025 19:29

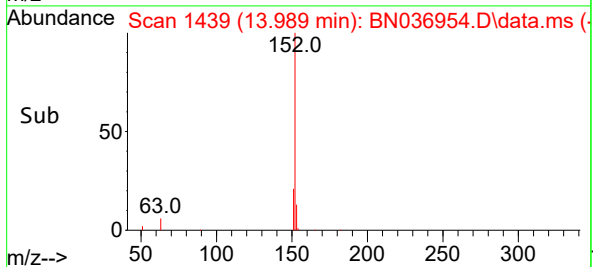
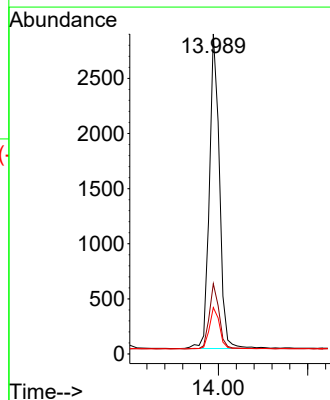
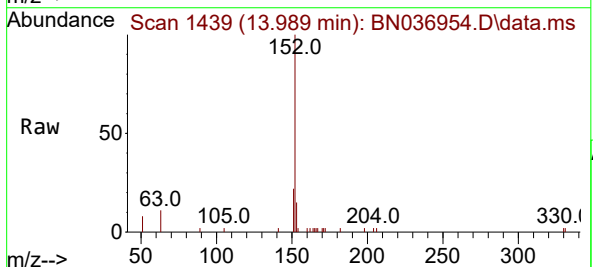
Tgt Ion:152 Resp: 4465

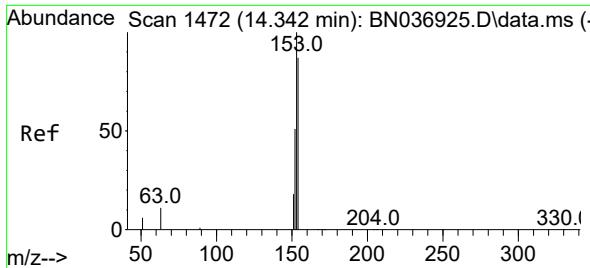
Ion Ratio Lower Upper

152 100

151 20.5 16.0 24.0

153 13.3 10.2 15.2

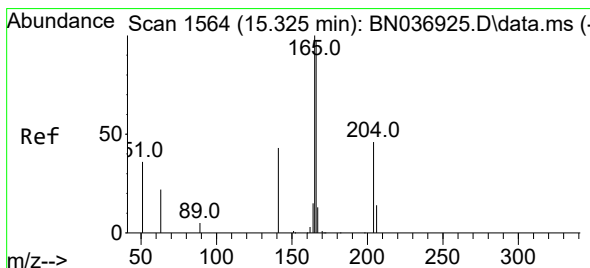
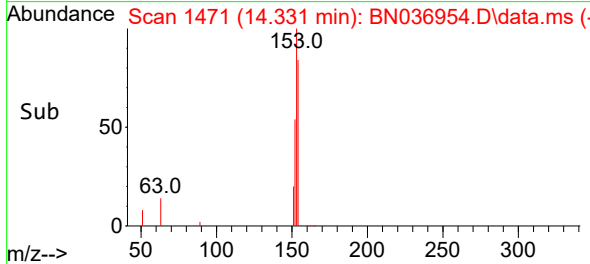
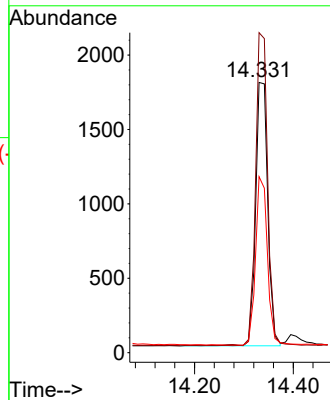
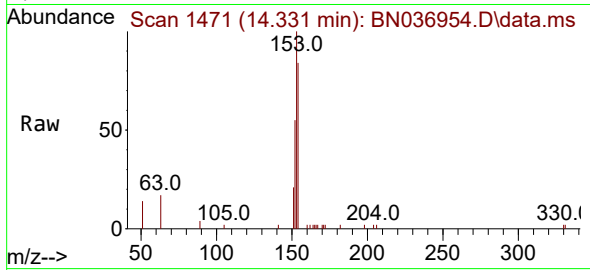




#17
Acenaphthene
Concen: 0.397 ng
RT: 14.331 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

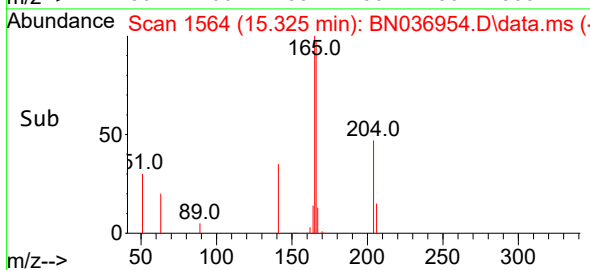
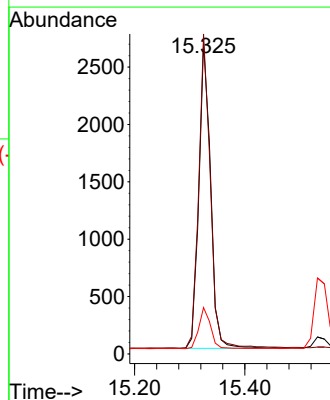
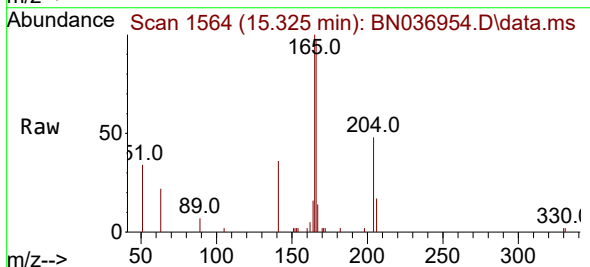
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

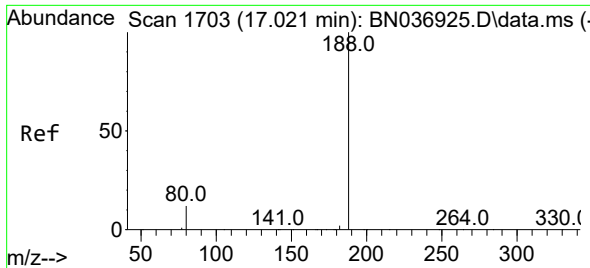
Tgt Ion:154 Resp: 3013
Ion Ratio Lower Upper
154 100
153 118.4 93.4 140.2
152 62.5 49.5 74.3



#18
Fluorene
Concen: 0.398 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

Tgt Ion:166 Resp: 3948
Ion Ratio Lower Upper
166 100
165 102.0 80.8 121.2
167 13.3 10.8 16.2

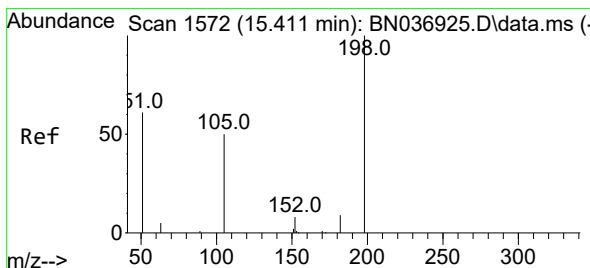
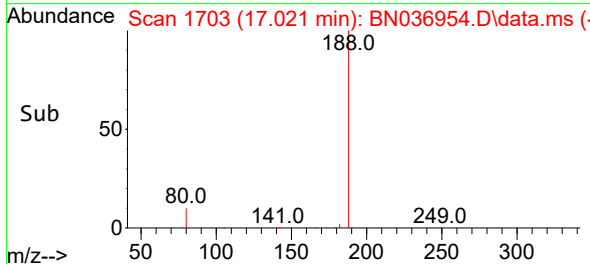
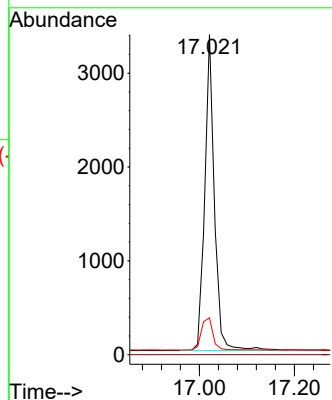
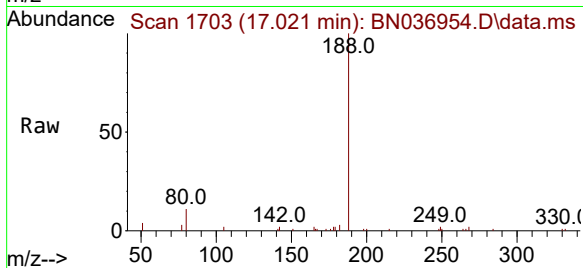




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

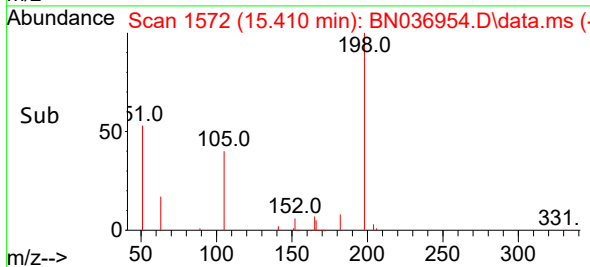
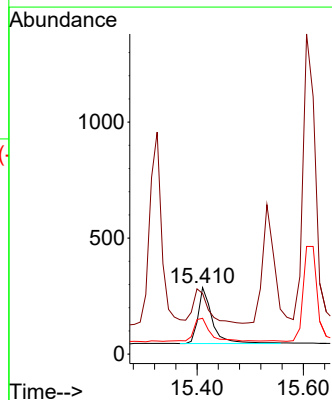
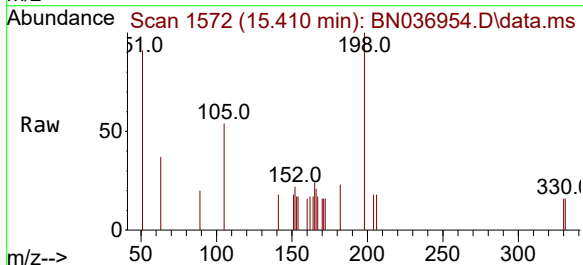
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

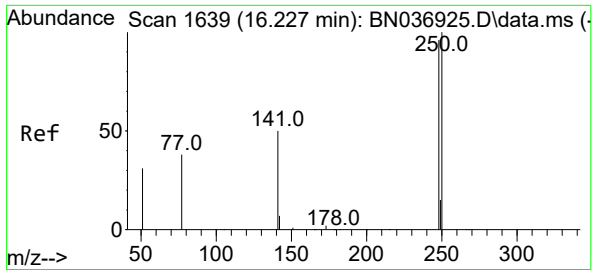
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.5	10.7	16.1



#20
4,6-Dinitro-2-methylphenol
Concen: 0.366 ng
RT: 15.410 min Scan# 1572
Delta R.T. -0.001 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

Tgt Ion	Ratio	Lower	Upper
198	100		
51	90.9	97.9	146.9#
105	53.7	50.0	75.0

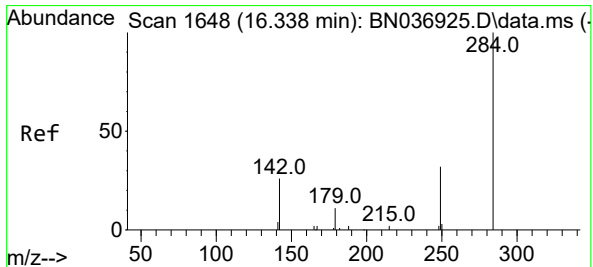
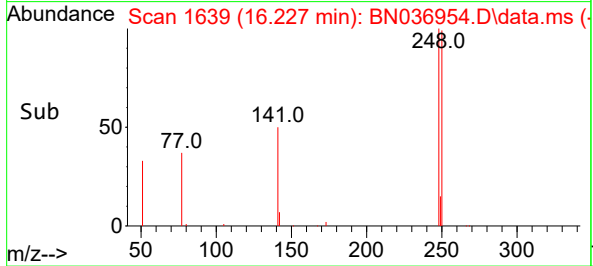
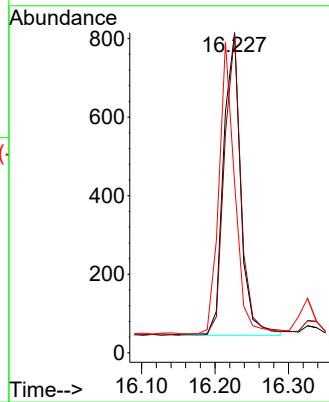
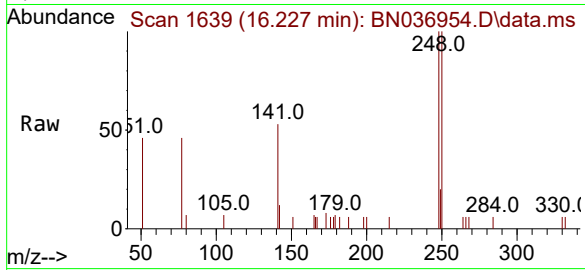




#21
4-Bromophenyl-phenylether
Concen: 0.390 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

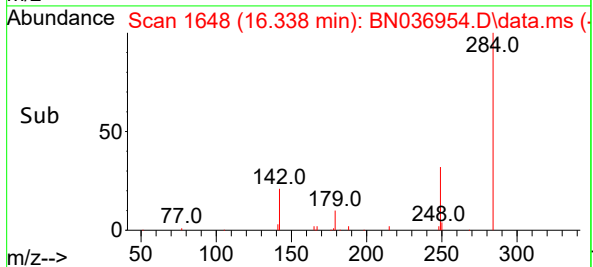
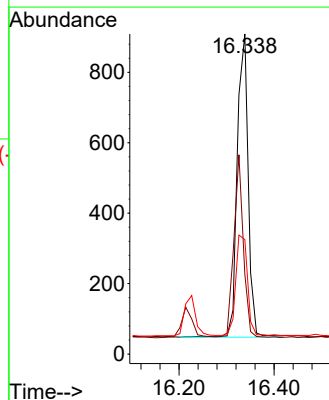
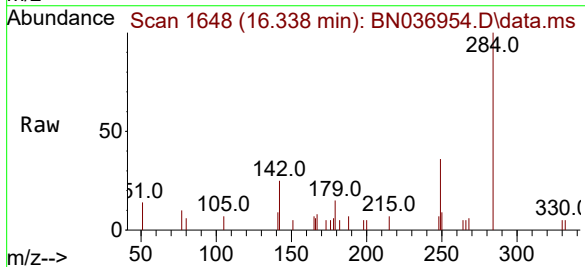
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

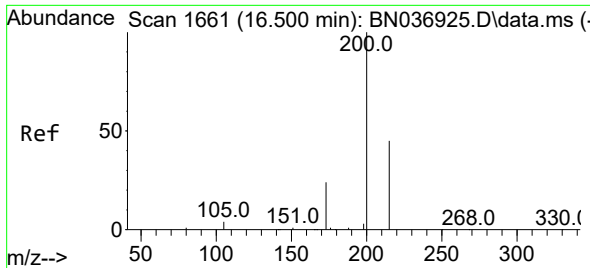
Tgt Ion:	248	Resp:	1244
Ion	Ratio	Lower	Upper
248	100		
250	99.8	83.7	125.5
141	53.0	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.395 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

Tgt Ion:	284	Resp:	1379
Ion	Ratio	Lower	Upper
284	100		
142	52.6	40.0	60.0
249	35.5	28.2	42.2

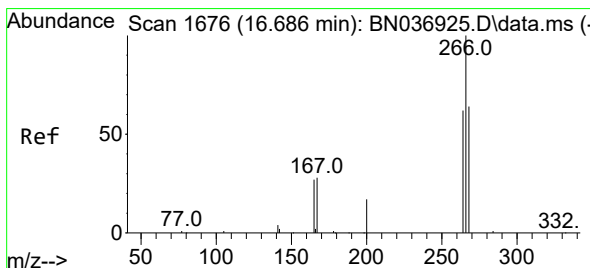
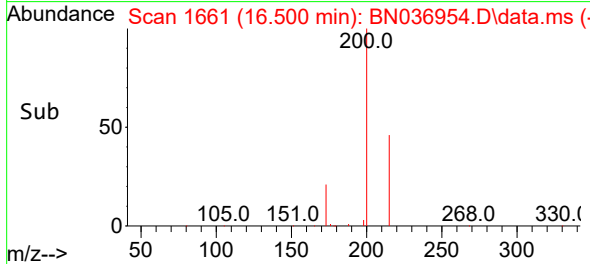
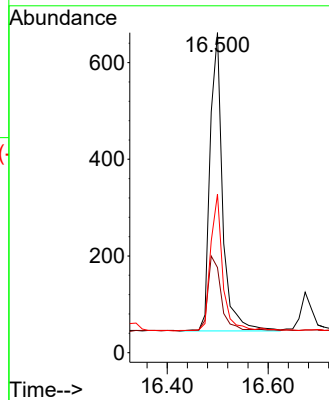
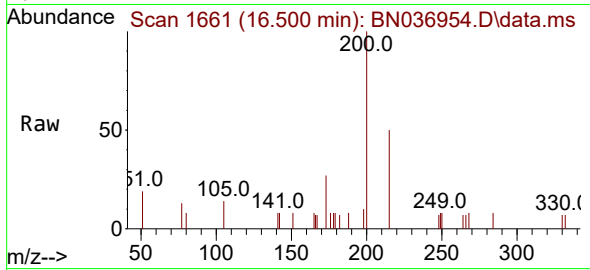




#23
Atrazine
Concen: 0.414 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

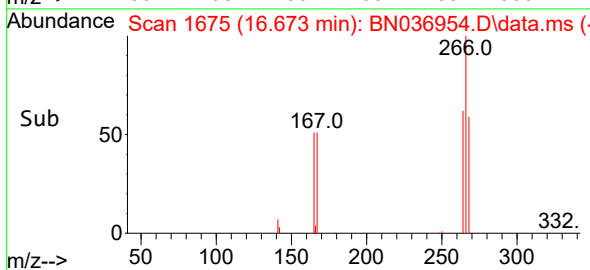
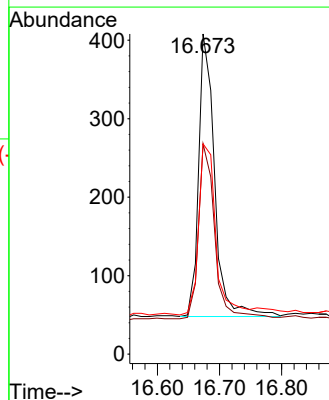
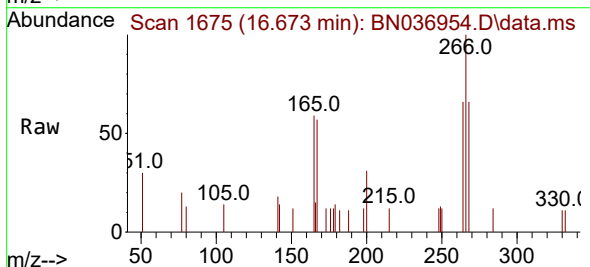
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

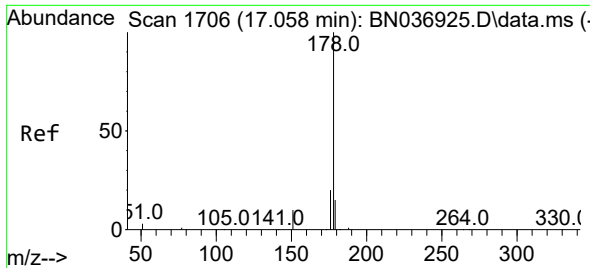
Tgt Ion	Ratio	Lower	Upper
200	100		
173	26.6	22.4	33.6
215	49.5	38.6	57.8



#24
Pentachlorophenol
Concen: 0.344 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.2	49.9	74.9
268	64.9	52.2	78.4

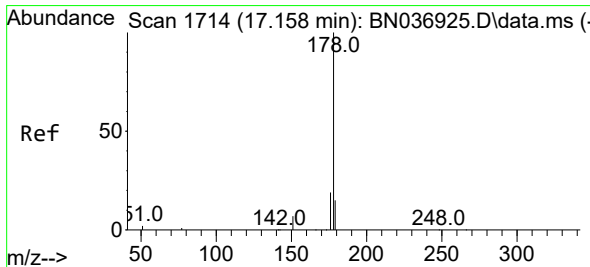
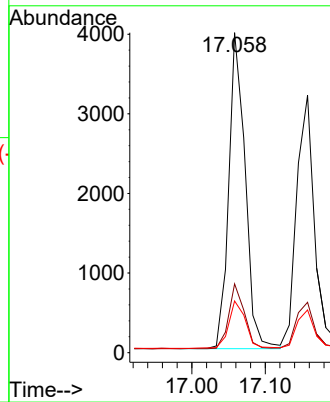
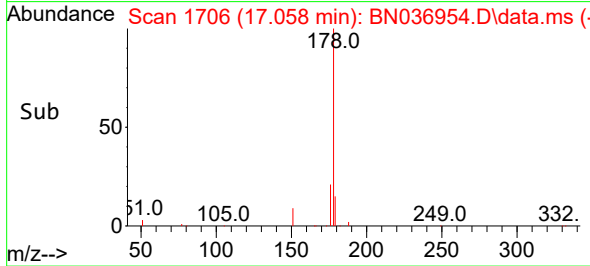
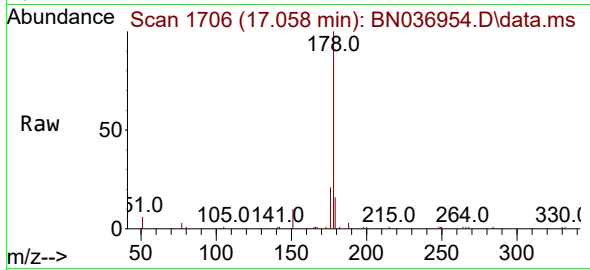




#25
Phenanthrene
Concen: 0.391 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

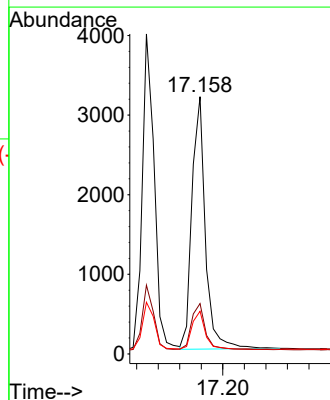
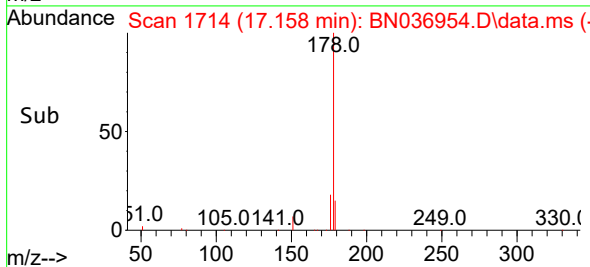
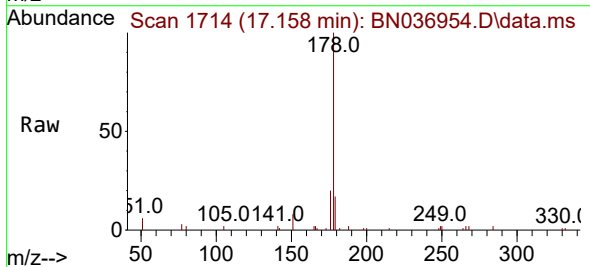
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

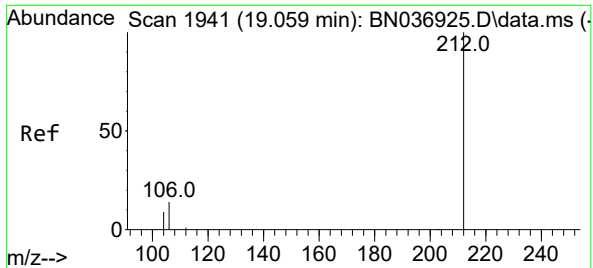
Tgt Ion:	178	Resp:	6166
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.7	12.4	18.6



#26
Anthracene
Concen: 0.387 ng
RT: 17.158 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

Tgt Ion:	178	Resp:	5520
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.0	12.1	18.1





#27

Fluoranthene-d10

Concen: 0.398 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036954.D

Acq: 30 Apr 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

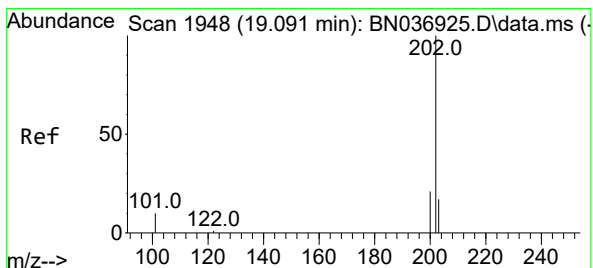
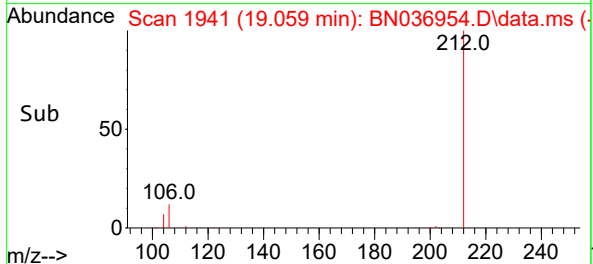
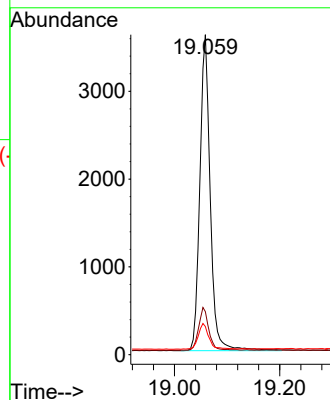
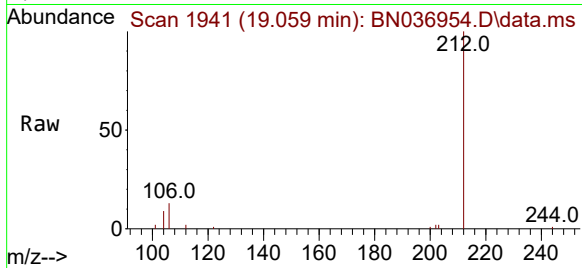
Tgt Ion:212 Resp: 4922

Ion Ratio Lower Upper

212 100

106 13.2 11.6 17.4

104 8.2 7.0 10.4



#28

Fluoranthene

Concen: 0.399 ng

RT: 19.087 min Scan# 1947

Delta R.T. -0.005 min

Lab File: BN036954.D

Acq: 30 Apr 2025 19:29

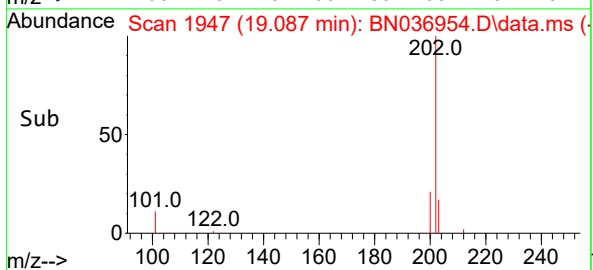
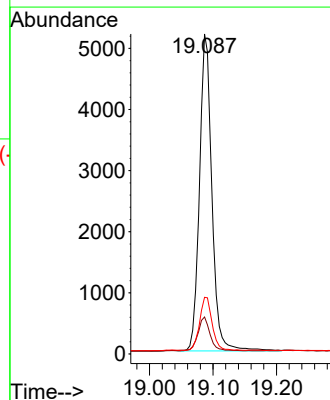
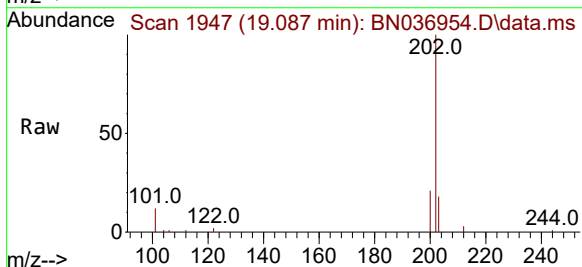
Tgt Ion:202 Resp: 7047

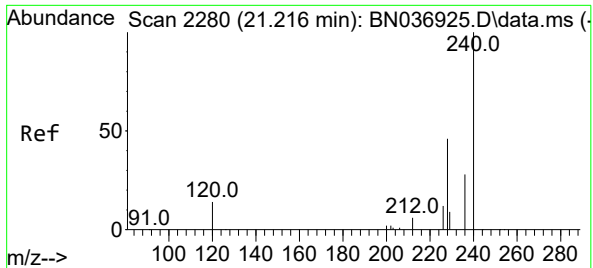
Ion Ratio Lower Upper

202 100

101 10.9 8.5 12.7

203 16.8 13.7 20.5

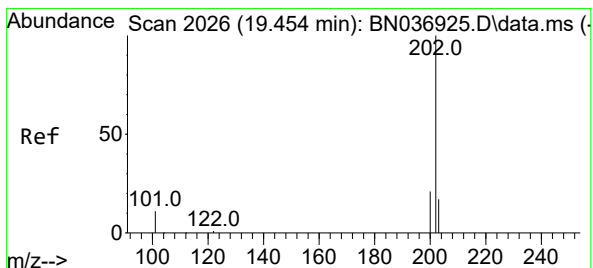
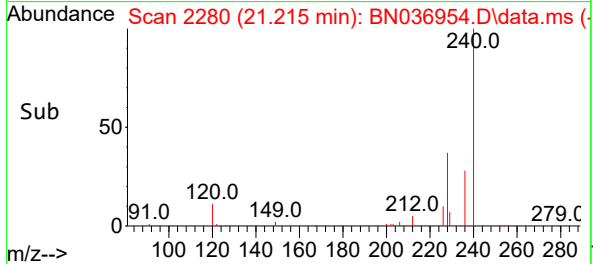
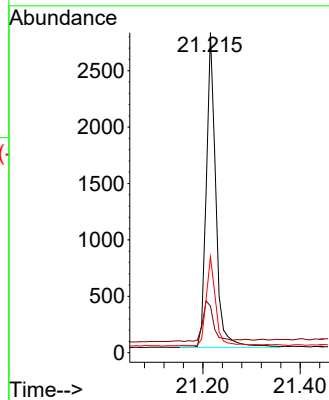
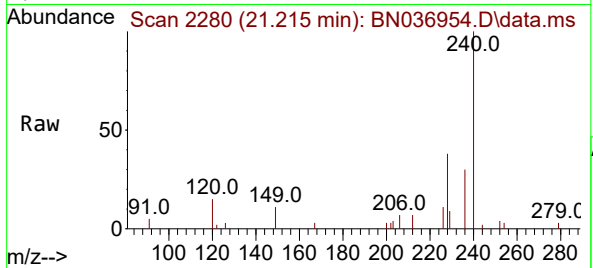




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

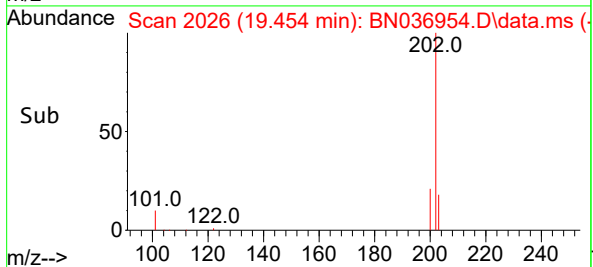
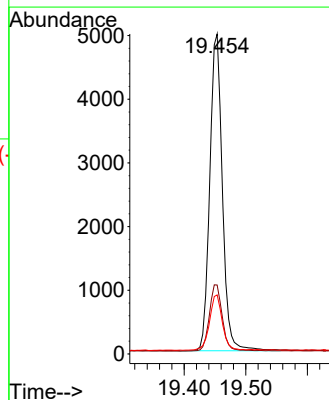
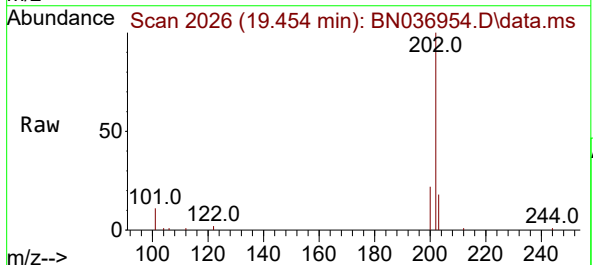
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

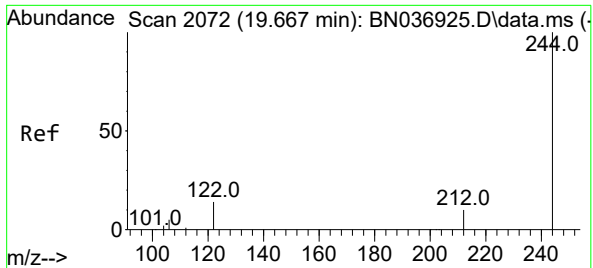
Tgt Ion:240 Resp: 3800
Ion Ratio Lower Upper
240 100
120 14.6 14.1 21.1
236 30.0 23.8 35.8



#30
Pyrene
Concen: 0.384 ng
RT: 19.454 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

Tgt Ion:202 Resp: 7025
Ion Ratio Lower Upper
202 100
200 21.5 17.0 25.6
203 17.7 14.0 21.0

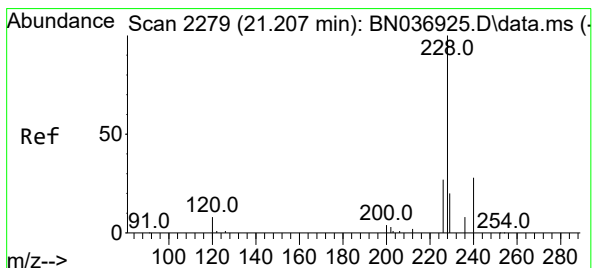
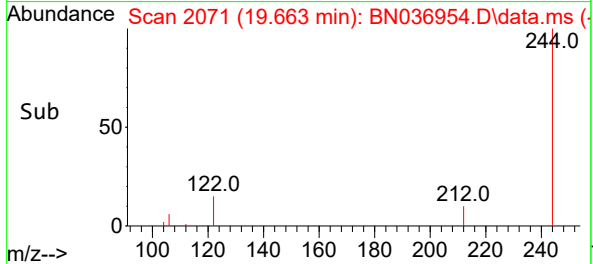
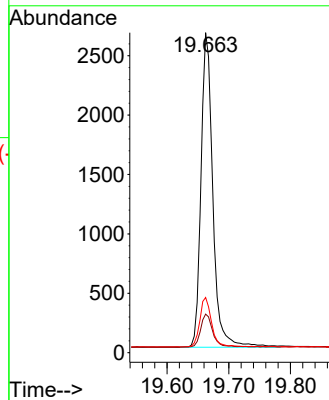
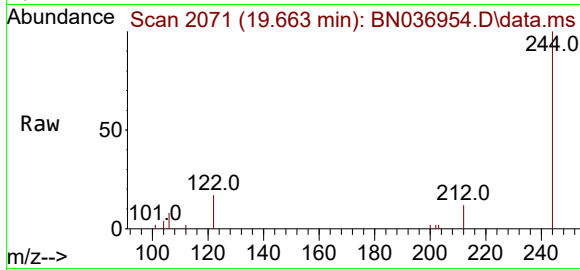




#31
Terphenyl-d14
Concen: 0.396 ng
RT: 19.663 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

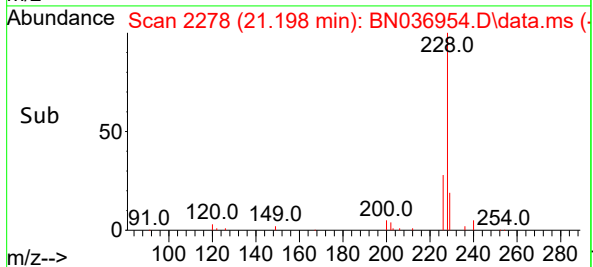
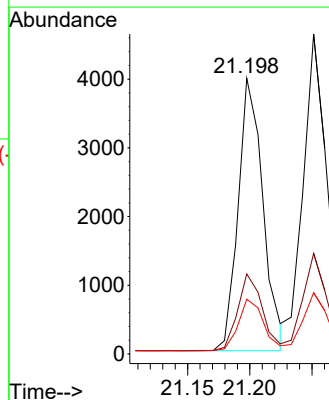
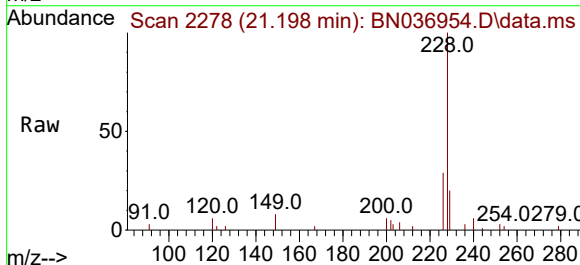
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

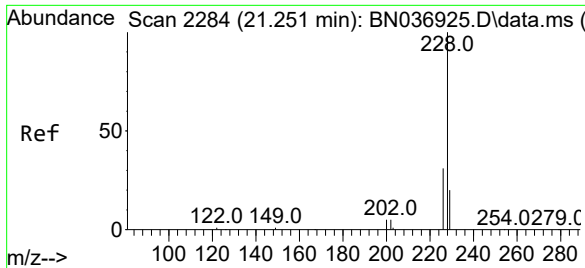
Tgt Ion:244 Resp: 3548
Ion Ratio Lower Upper
244 100
212 12.1 9.6 14.4
122 17.2 12.7 19.1



#32
Benzo(a)anthracene
Concen: 0.393 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

Tgt Ion:228 Resp: 5504
Ion Ratio Lower Upper
228 100
226 29.0 22.2 33.4
229 19.8 16.4 24.6





#33

Chrysene

Concen: 0.431 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036954.D

Acq: 30 Apr 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

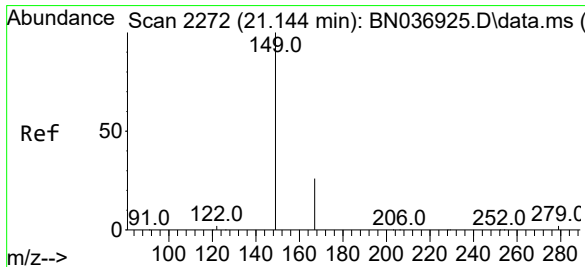
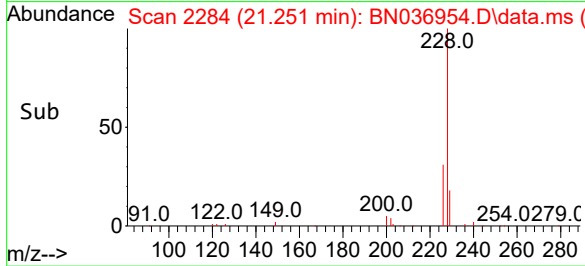
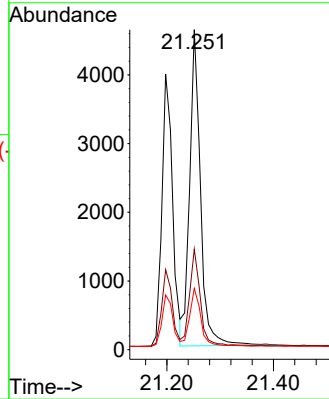
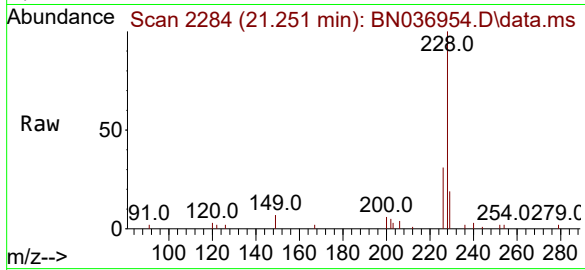
Tgt Ion:228 Resp: 6504

Ion Ratio Lower Upper

228 100

226 31.5 25.5 38.3

229 19.2 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.442 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036954.D

Acq: 30 Apr 2025 19:29

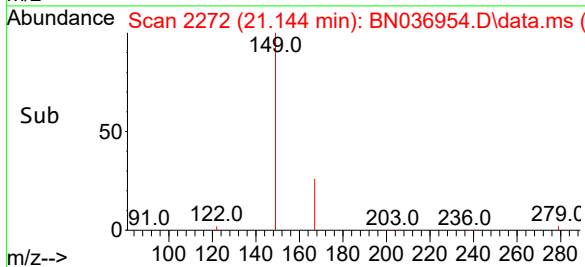
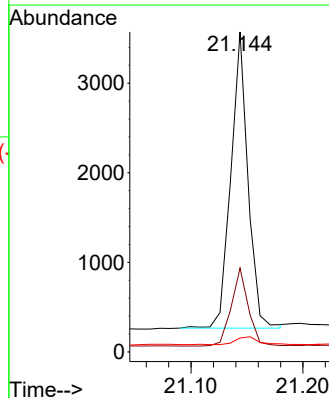
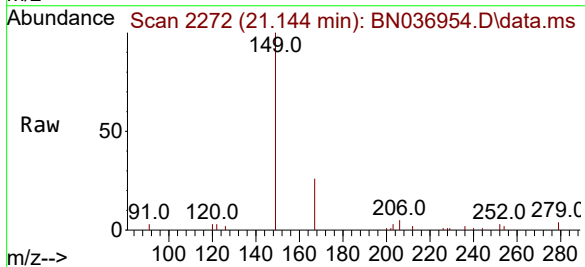
Tgt Ion:149 Resp: 3519

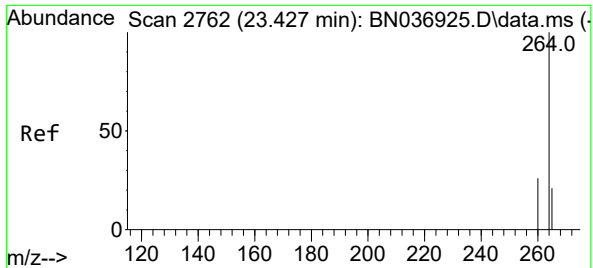
Ion Ratio Lower Upper

149 100

167 26.4 21.0 31.6

279 3.4 2.7 4.1

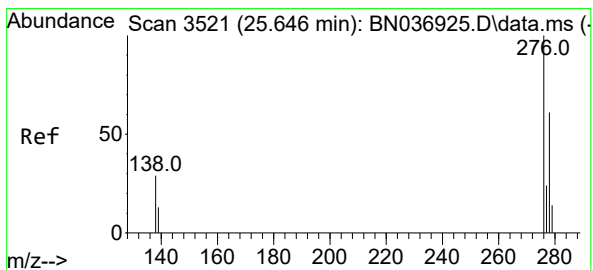
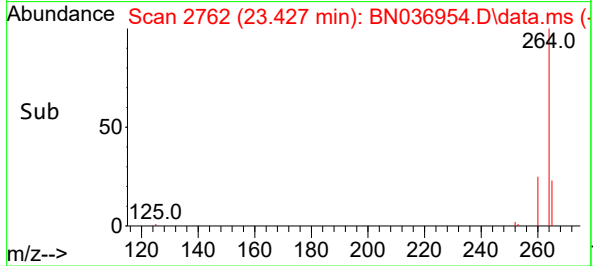
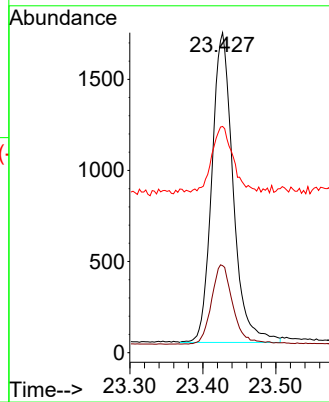
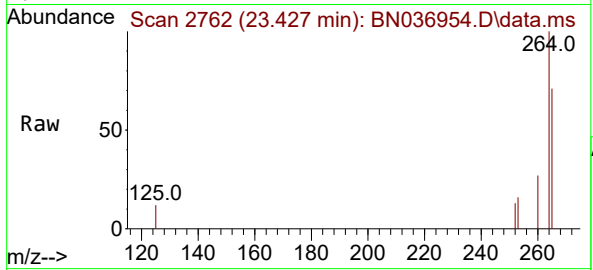




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

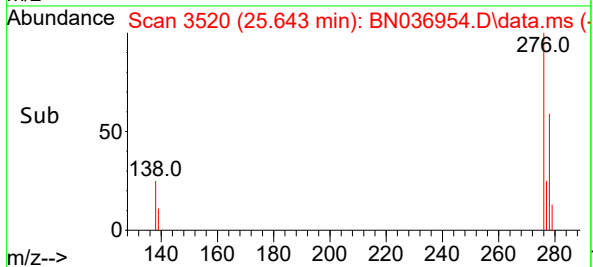
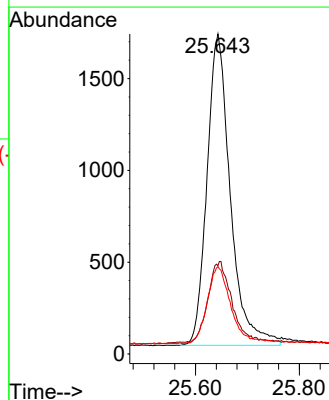
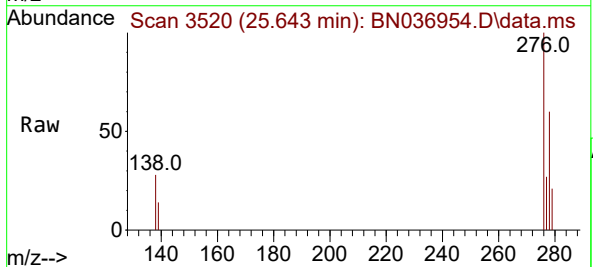
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

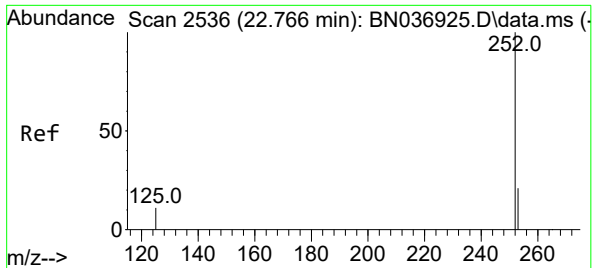
Tgt Ion:	264	Resp:	3445
Ion Ratio	Lower	Upper	
264	100		
260	27.2	22.2	33.2
265	70.7	65.8	98.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.643 min Scan# 3520
Delta R.T. -0.003 min
Lab File: BN036954.D
Acq: 30 Apr 2025 19:29

Tgt Ion:	276	Resp:	5296
Ion Ratio	Lower	Upper	
276	100		
138	26.5	23.0	34.6
277	24.6	20.0	30.0





#37

Benzo(b)fluoranthene

Concen: 0.397 ng

RT: 22.763 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036954.D

Acq: 30 Apr 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

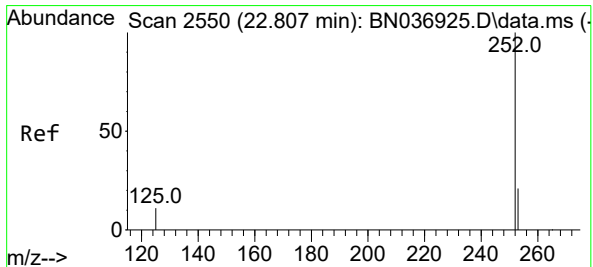
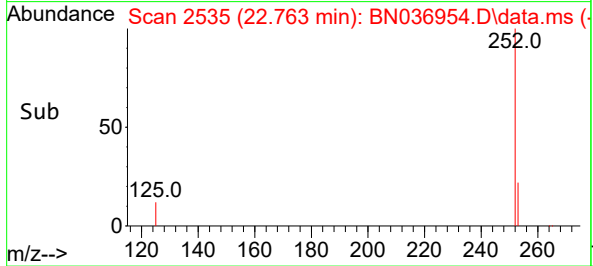
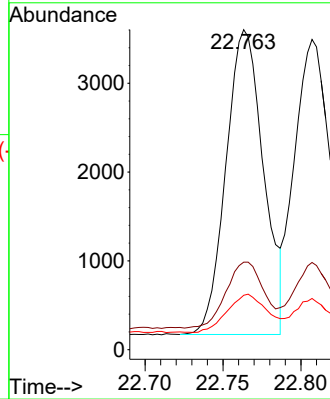
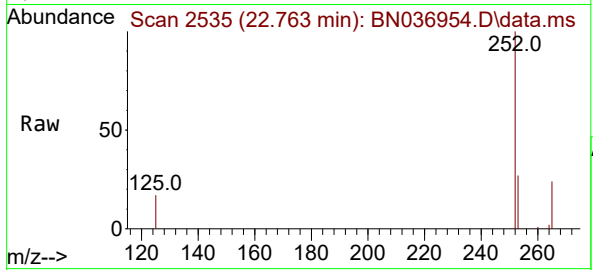
Tgt Ion:252 Resp: 5755

Ion Ratio Lower Upper

252 100

253 27.3 22.1 33.1

125 17.0 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.392 ng

RT: 22.807 min Scan# 2550

Delta R.T. -0.000 min

Lab File: BN036954.D

Acq: 30 Apr 2025 19:29

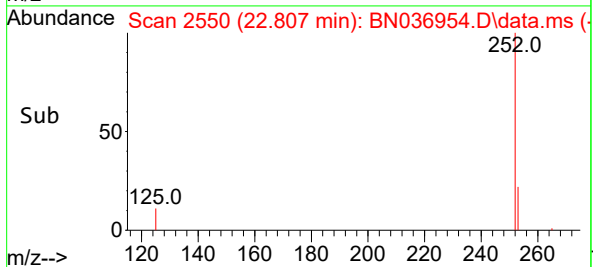
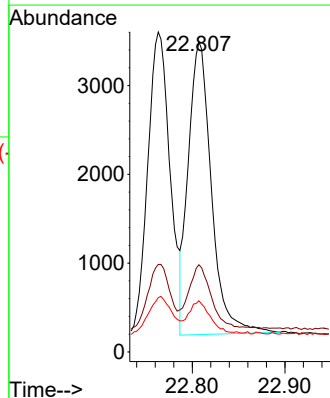
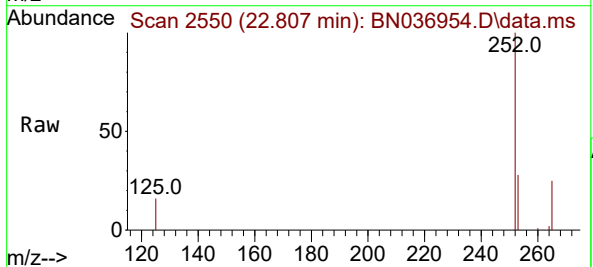
Tgt Ion:252 Resp: 5713

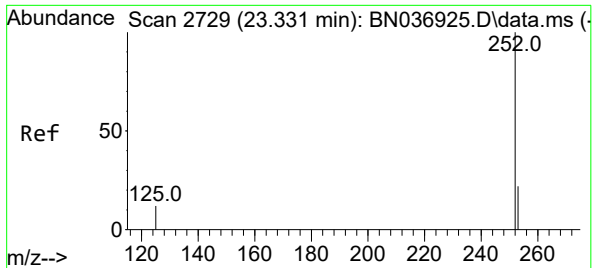
Ion Ratio Lower Upper

252 100

253 28.1 22.8 34.2

125 16.5 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.400 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036954.D

Acq: 30 Apr 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

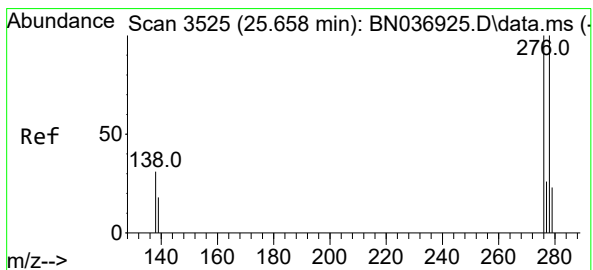
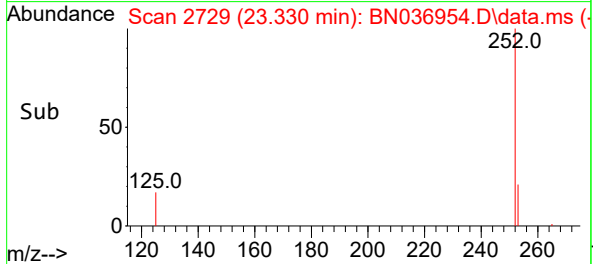
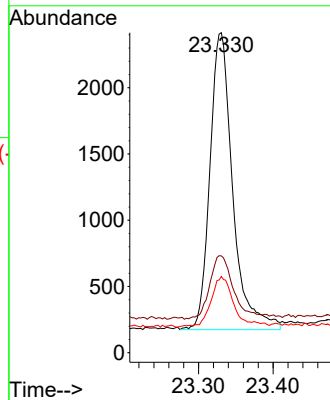
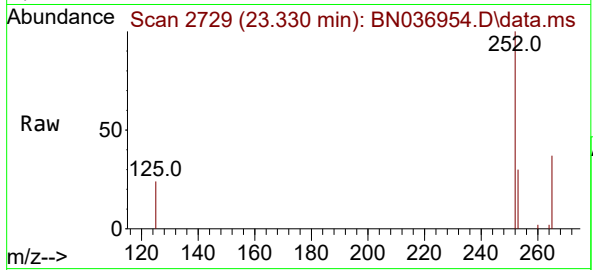
Tgt Ion:252 Resp: 4761

Ion Ratio Lower Upper

252 100

253 30.3 25.9 38.9

125 23.8 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.370 ng

RT: 25.655 min Scan# 3524

Delta R.T. -0.003 min

Lab File: BN036954.D

Acq: 30 Apr 2025 19:29

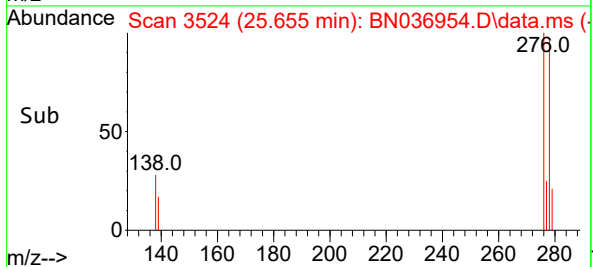
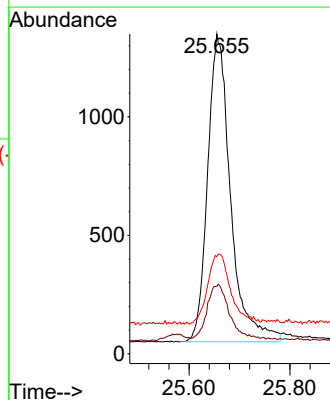
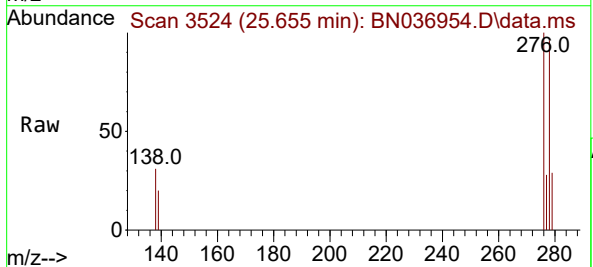
Tgt Ion:278 Resp: 4096

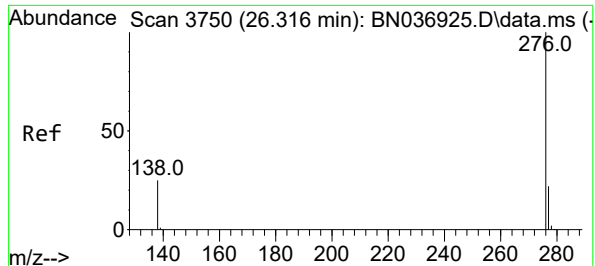
Ion Ratio Lower Upper

278 100

139 21.1 17.4 26.2

279 30.4 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.378 ng

RT: 26.318 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036954.D

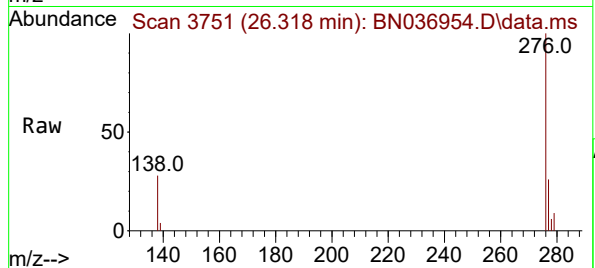
Acq: 30 Apr 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



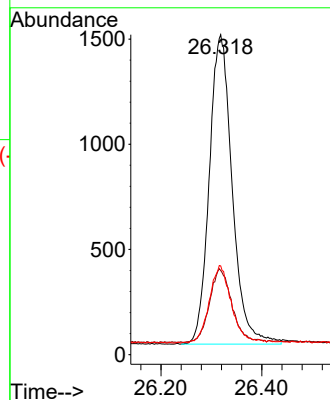
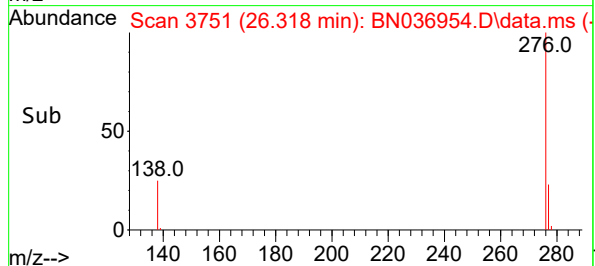
Tgt Ion:276 Resp: 4647

Ion Ratio Lower Upper

276 100

277 26.3 20.2 30.2

138 27.7 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036954.D
Acq On : 30 Apr 2025 19:29
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: May 01 01:13:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 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	71	0.00
2	1,4-Dioxane	0.498	0.513	-3.0	66	0.00
3	n-Nitrosodimethylamine	0.967	1.046	-8.2	74	0.00
4 S	2-Fluorophenol	1.023	1.071	-4.7	68	0.00
5 S	Phenol-d6	1.259	1.249	0.8	67	0.00
6	bis(2-Chloroethyl)ether	1.167	1.093	6.3	67	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	72	-0.01
8 S	Nitrobenzene-d5	0.418	0.418	0.0	74	0.00
9	Naphthalene	1.164	1.154	0.9	72	0.00
10	Hexachlorobutadiene	0.252	0.262	-4.0	75	-0.01
11 SURR	2-Methylnaphthalene-d10	0.559	0.551	1.4	74	0.00
12	2-Methylnaphthalene	0.753	0.740	1.7	74	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	77	0.00
14 S	2,4,6-Tribromophenol	0.178	0.181	-1.7	79	0.00
15 S	2-Fluorobiphenyl	1.933	1.735	10.2	65	0.00
16	Acenaphthylene	1.955	1.890	3.3	77	-0.01
17	Acenaphthene	1.284	1.275	0.7	77	-0.01
18	Fluorene	1.680	1.671	0.5	80	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	84	0.00
20	4,6-Dinitro-2-methylphenol	0.106	0.097	8.5	90	0.00
21	4-Bromophenyl-phenylether	0.267	0.261	2.2	83	0.00
22	Hexachlorobenzene	0.293	0.289	1.4	80	0.00
23	Atrazine	0.215	0.223	-3.7	93	0.00
24	Pentachlorophenol	0.157	0.135	14.0	78	-0.01
25	Phenanthrene	1.320	1.292	2.1	83	0.00
26	Anthracene	1.194	1.156	3.2	84	0.00
27 SURR	Fluoranthene-d10	1.037	1.031	0.6	87	0.00
28	Fluoranthene	1.480	1.476	0.3	88	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	92	0.00
30	Pyrene	1.927	1.849	4.0	87	0.00
31 S	Terphenyl-d14	0.944	0.934	1.1	91	0.00
32	Benzo(a)anthracene	1.473	1.448	1.7	94	0.00
33	Chrysene	1.589	1.712	-7.7	96	0.00
34	Bis(2-ethylhexyl)phthalate	0.838	0.926	-10.5	102	0.00
35 I	Perylene-d12	1.000	1.000	0.0	95	0.00
36	Indeno(1,2,3-cd)pyrene	1.634	1.537	5.9	85	0.00
37	Benzo(b)fluoranthene	1.682	1.671	0.7	97	0.00
38	Benzo(k)fluoranthene	1.691	1.658	2.0	95	0.00
39 C	Benzo(a)pyrene	1.383	1.382	0.1	96	0.00
40	Dibenzo(a,h)anthracene	1.286	1.189	7.5	84	0.00
41	Benzo(g,h,i)perylene	1.427	1.349	5.5	84	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036954.D
Acq On : 30 Apr 2025 19:29
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: May 01 01:13:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 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	71	0.00
2	1,4-Dioxane	0.400	0.411	-2.7	66	0.00
3	n-Nitrosodimethylamine	0.400	0.433	-8.2	74	0.00
4 S	2-Fluorophenol	0.400	0.419	-4.7	68	0.00
5 S	Phenol-d6	0.400	0.397	0.8	67	0.00
6	bis(2-Chloroethyl)ether	0.400	0.375	6.3	67	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	72	-0.01
8 S	Nitrobenzene-d5	0.400	0.399	0.3	74	0.00
9	Naphthalene	0.400	0.396	1.0	72	0.00
10	Hexachlorobutadiene	0.400	0.417	-4.2	75	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.394	1.5	74	0.00
12	2-Methylnaphthalene	0.400	0.393	1.8	74	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	77	0.00
14 S	2,4,6-Tribromophenol	0.400	0.405	-1.3	79	0.00
15 S	2-Fluorobiphenyl	0.400	0.359	10.3	65	0.00
16	Acenaphthylene	0.400	0.387	3.3	77	-0.01
17	Acenaphthene	0.400	0.397	0.8	77	-0.01
18	Fluorene	0.400	0.398	0.5	80	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	84	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.366	8.5	90	0.00
21	4-Bromophenyl-phenylether	0.400	0.390	2.5	83	0.00
22	Hexachlorobenzene	0.400	0.395	1.3	80	0.00
23	Atrazine	0.400	0.414	-3.5	93	0.00
24	Pentachlorophenol	0.400	0.344	14.0	78	-0.01
25	Phenanthrene	0.400	0.391	2.3	83	0.00
26	Anthracene	0.400	0.387	3.3	84	0.00
27 SURR	Fluoranthene-d10	0.400	0.398	0.5	87	0.00
28	Fluoranthene	0.400	0.399	0.3	88	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	92	0.00
30	Pyrene	0.400	0.384	4.0	87	0.00
31 S	Terphenyl-d14	0.400	0.396	1.0	91	0.00
32	Benzo(a)anthracene	0.400	0.393	1.8	94	0.00
33	Chrysene	0.400	0.431	-7.7	96	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.442	-10.5	102	0.00
35 I	Perylene-d12	0.400	0.400	0.0	95	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.376	6.0	85	0.00
37	Benzo(b)fluoranthene	0.400	0.397	0.8	97	0.00
38	Benzo(k)fluoranthene	0.400	0.392	2.0	95	0.00
39 C	Benzo(a)pyrene	0.400	0.400	0.0	96	0.00
40	Dibenzo(a,h)anthracene	0.400	0.370	7.5	84	0.00
41	Benzo(g,h,i)perylene	0.400	0.378	5.5	84	0.00

(#) = Out of Range

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



QC SAMPLE DATA

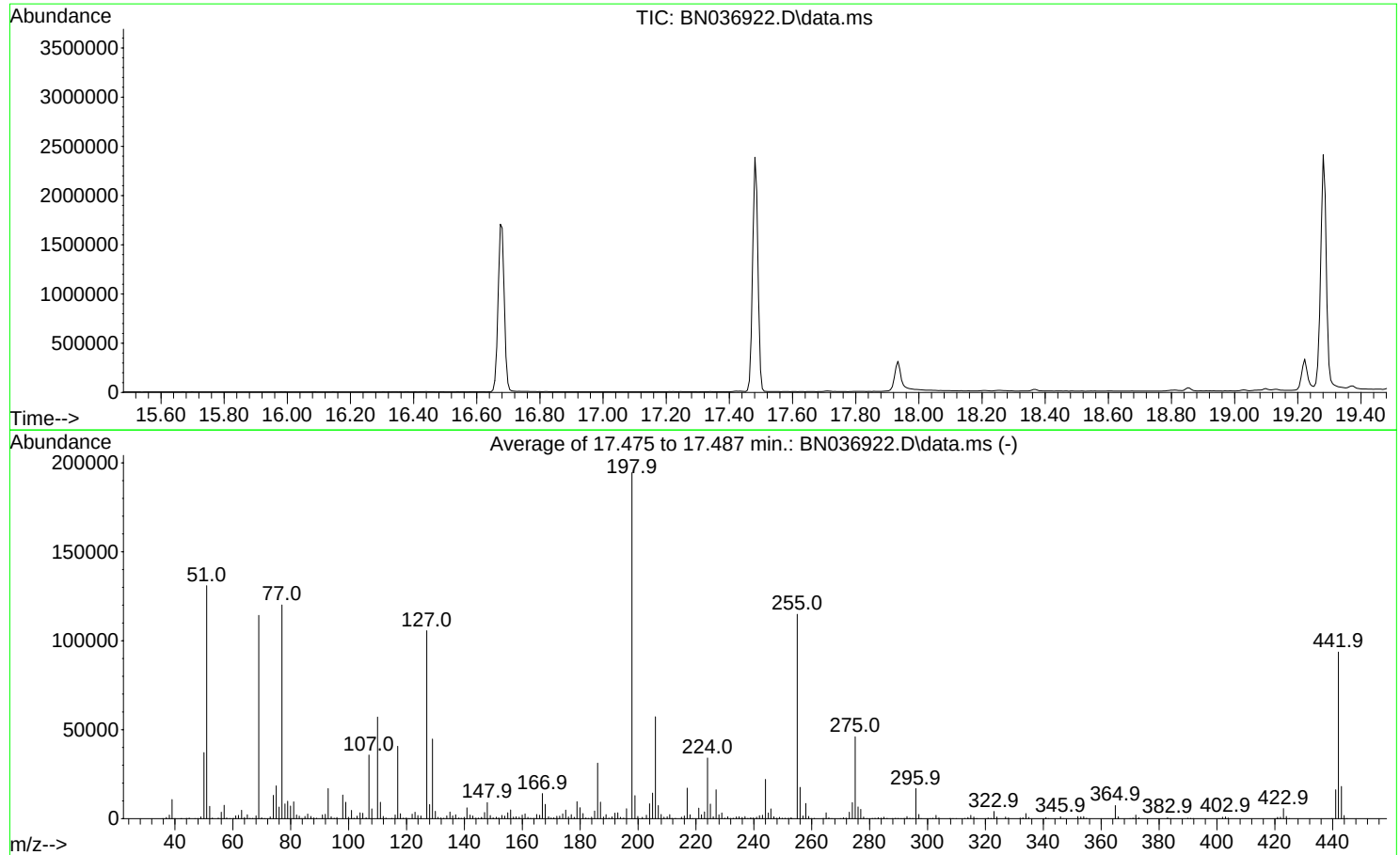
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036922.D
Acq On : 28 Apr 2025 10:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Apr 28 15:35:03 2025



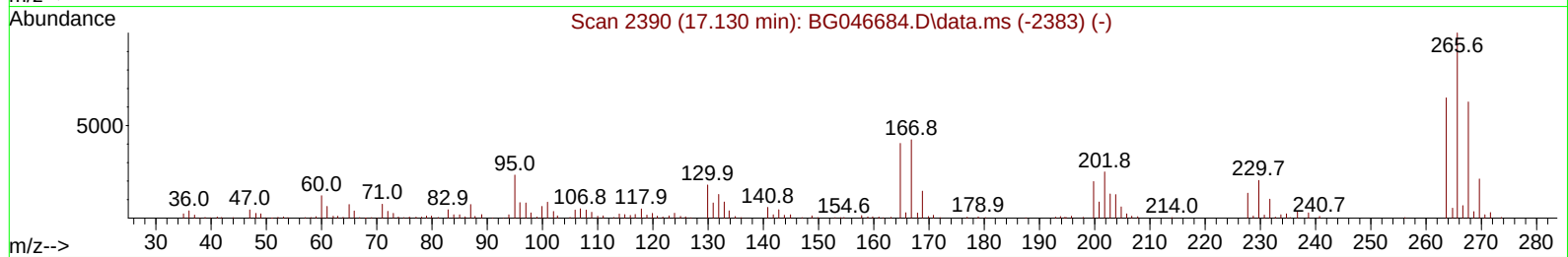
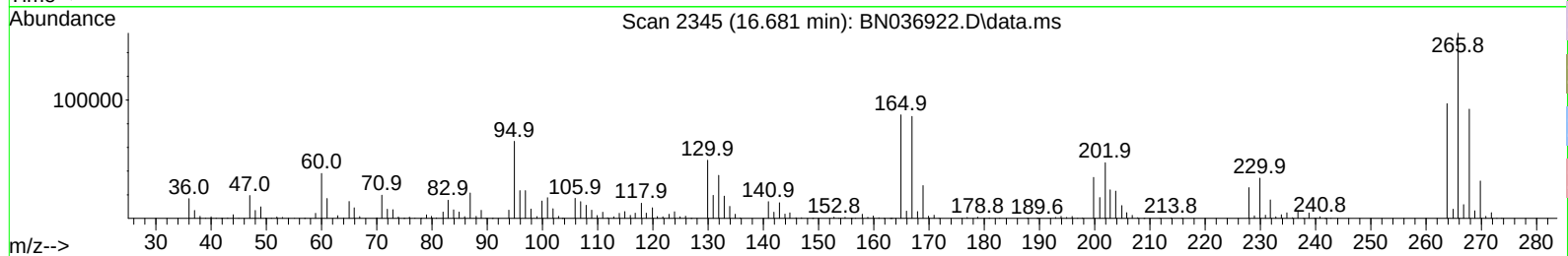
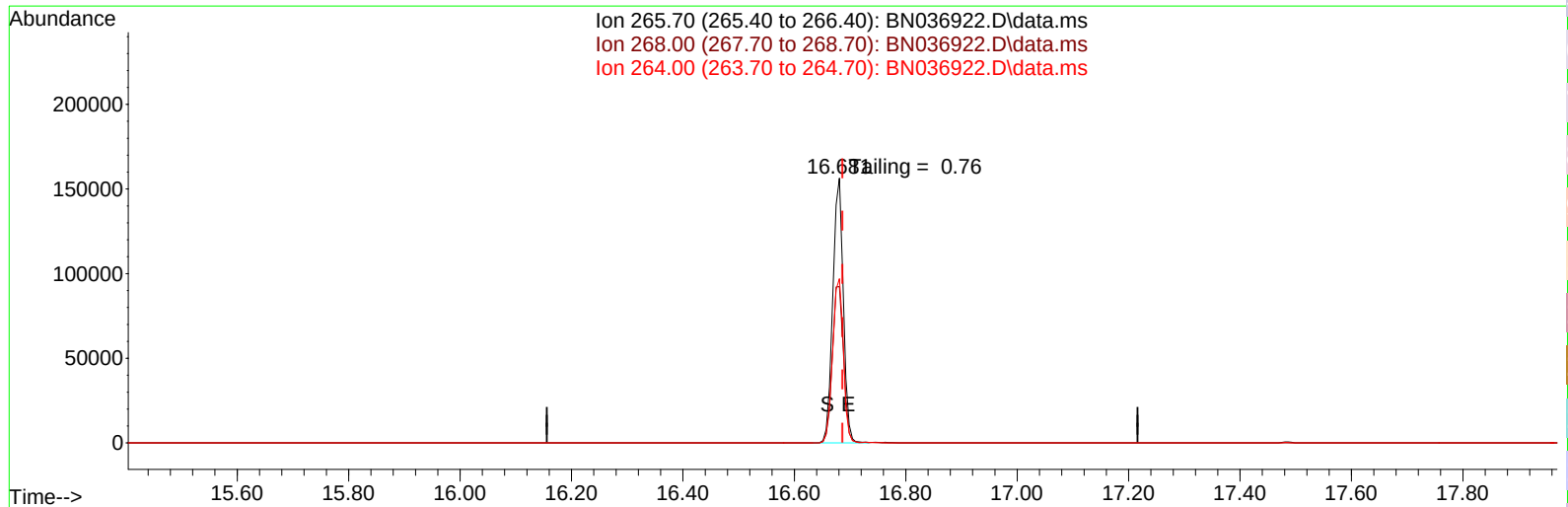
AutoFind: Scans 2480, 2481, 2482; Background Corrected with Scan 2473

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	67.4	130988	PASS
68	69	0.00	2	1.4	1628	PASS
69	198	0.00	100	58.8	114280	PASS
70	69	0.00	2	0.4	478	PASS
127	198	10	80	54.3	105632	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	194475	PASS
199	198	5	9	6.7	12991	PASS
275	198	10	60	23.7	46040	PASS
365	198	1	100	3.8	7407	PASS
441	198	0.01	100	8.4	16253	PASS
442	442	50	100	100.0	93637	PASS
443	442	15	24	19.4	18149	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036922.D
Acq On : 28 Apr 2025 10:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 28 16:10:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036922.D\data.ms

(70) Pentachlorophenol (C)

16.681min (-0.005) 20278.92 ng

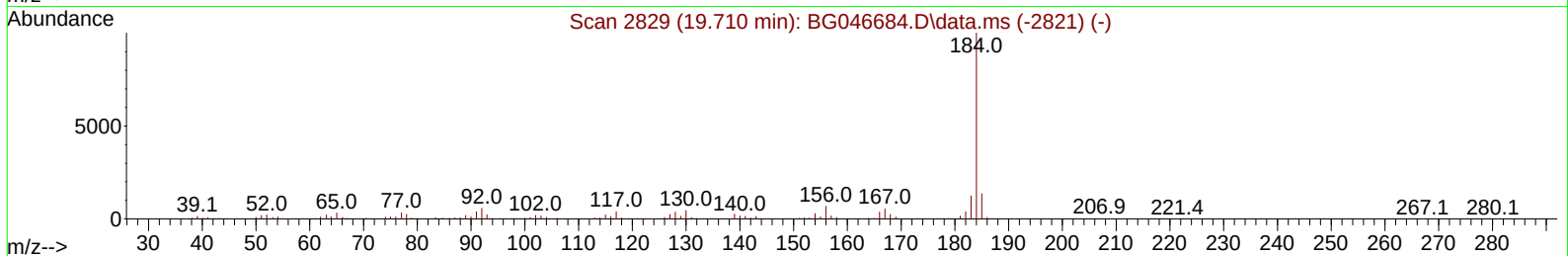
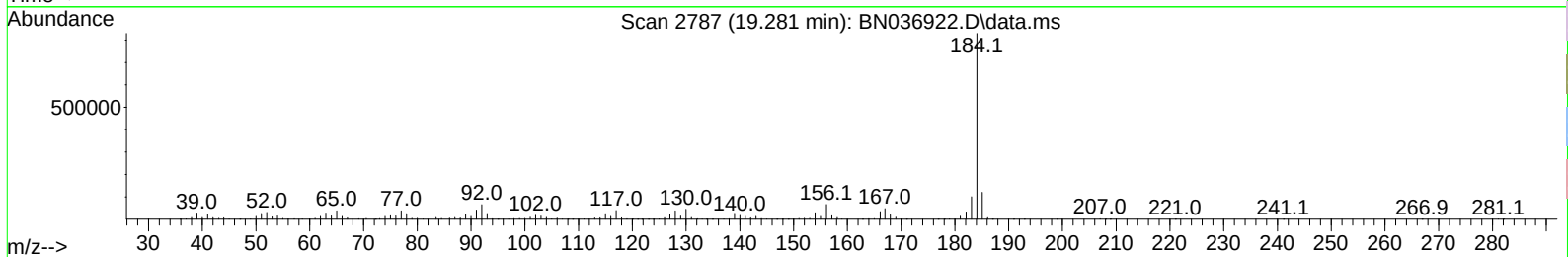
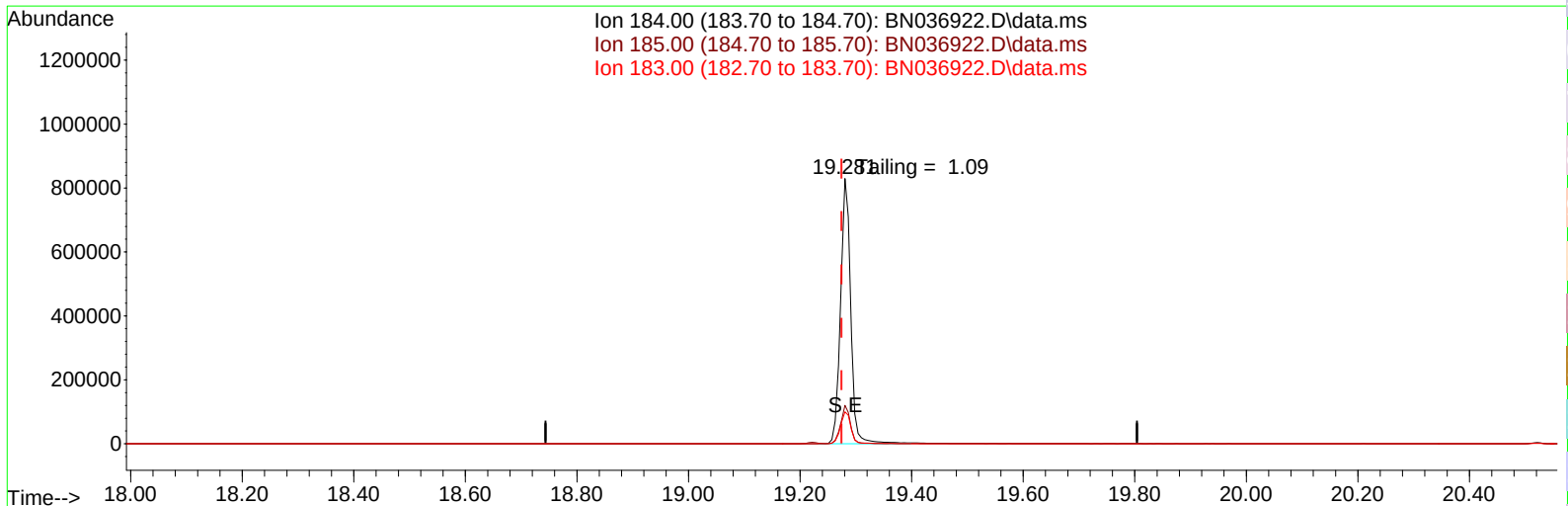
response 204659

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.04
264.00	61.60	61.99
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036922.D
Acq On : 28 Apr 2025 10:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 28 16:10:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036922.D\data.ms

(77) Benzidine

19.281min (+ 0.006) 0.00 ng

response 1065531

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.51
183.00	13.20	12.08
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

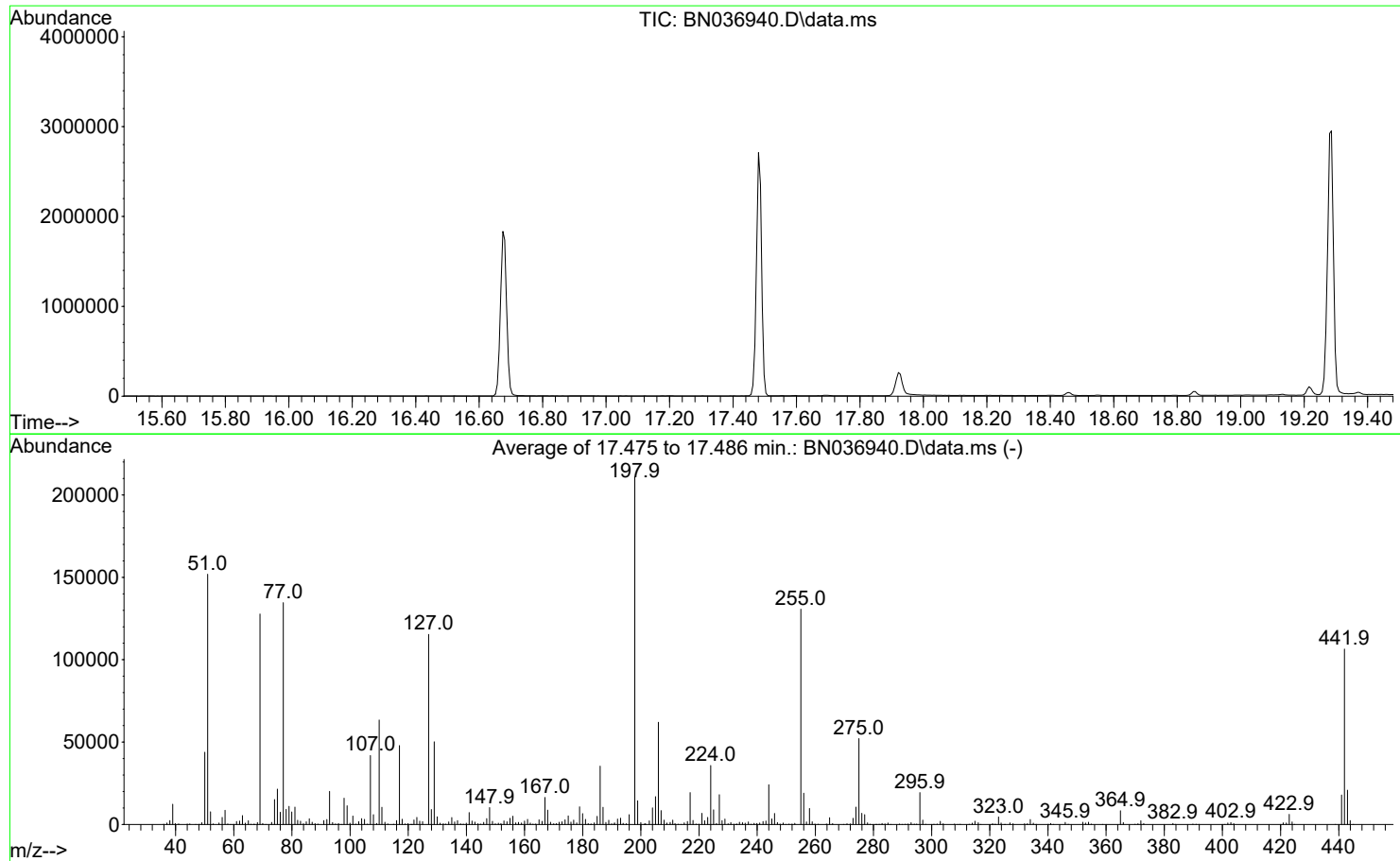
Date	Instrument Name	DFTPP Data File
4/28/2025	BNA_N	<u>BN036922.D</u>
Compound Name	Response	Retention Time
DDT	653394	20.522
DDD	6192	20.133
DDE	0	19.621
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
6192	659586	0.94

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036940.D
Acq On : 30 Apr 2025 10:20
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-BN042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Apr 28 15:35:03 2025



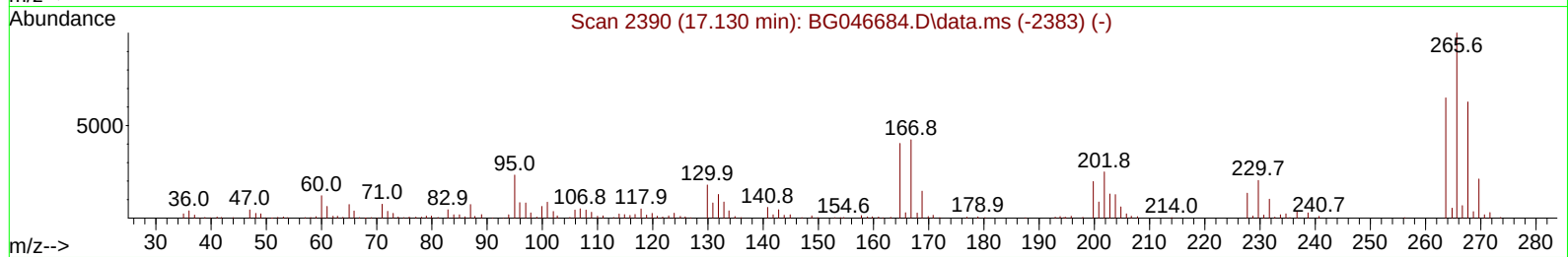
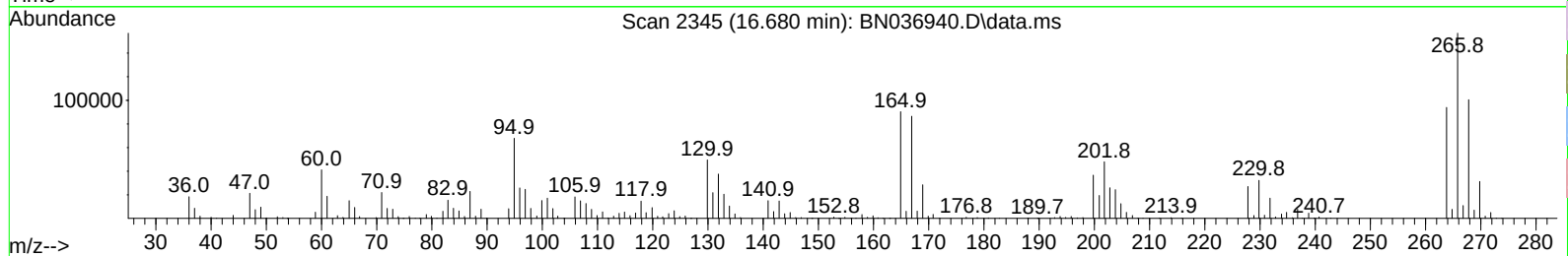
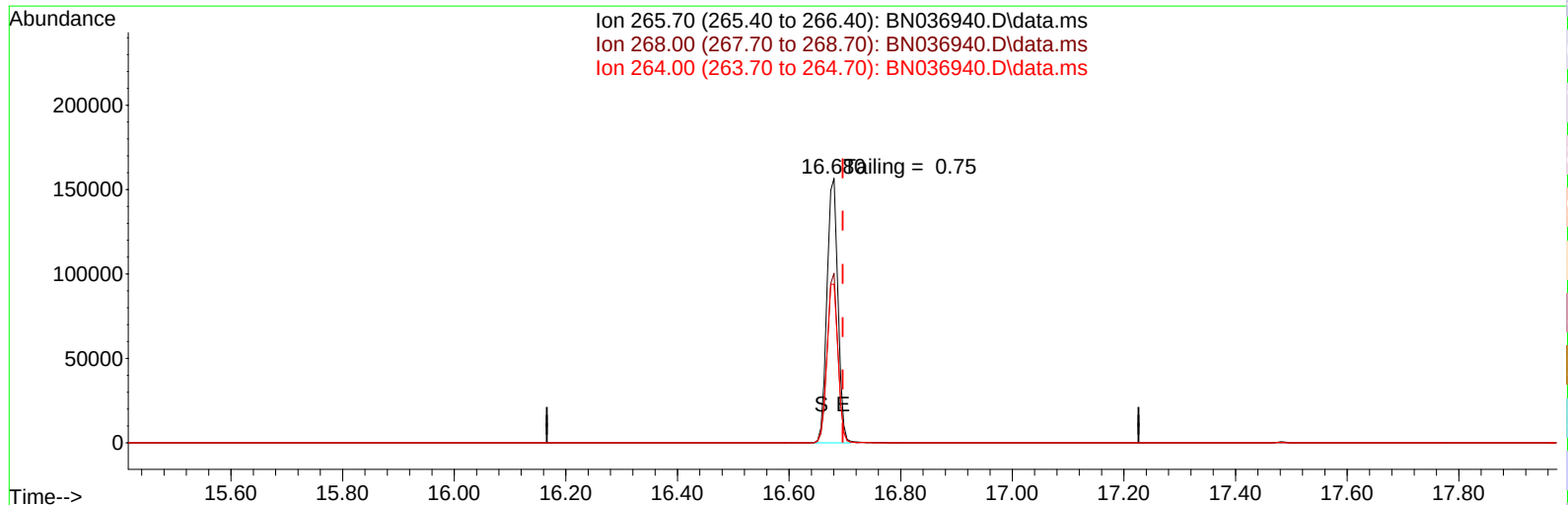
AutoFind: Scans 2480, 2481, 2482; Background Corrected with Scan 2474

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	10	80	72.0	151907	PASS
68	69	0.00	2	0.9	1191	PASS
69	198	0.00	100	60.6	127800	PASS
70	69	0.00	2	0.5	628	PASS
127	198	10	80	54.7	115331	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	211008	PASS
199	198	5	9	6.8	14432	PASS
275	198	10	60	24.7	52133	PASS
365	198	1	100	4.0	8390	PASS
441	198	0.01	100	8.5	17889	PASS
442	442	50	100	100.0	106467	PASS
443	442	15	24	19.5	20798	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036940.D
Acq On : 30 Apr 2025 10:20
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 30 17:05:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036940.D\data.ms

(70) Pentachlorophenol (C)

16.680min (-0.016) 16606.24 ng

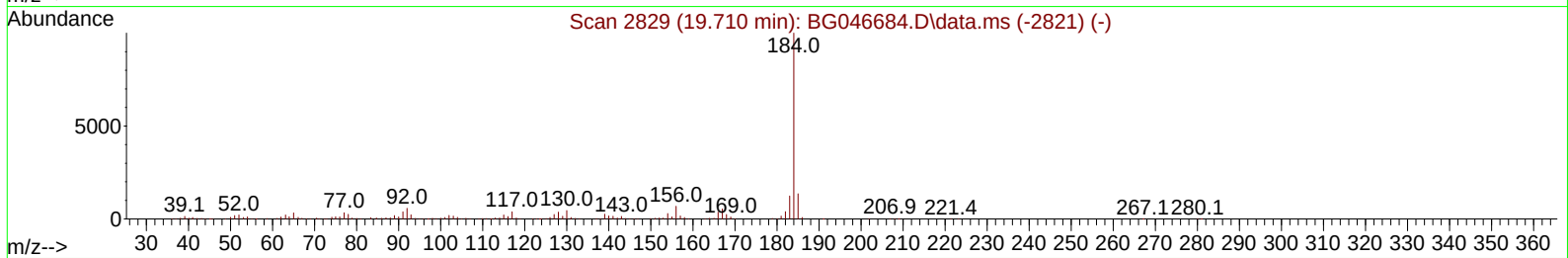
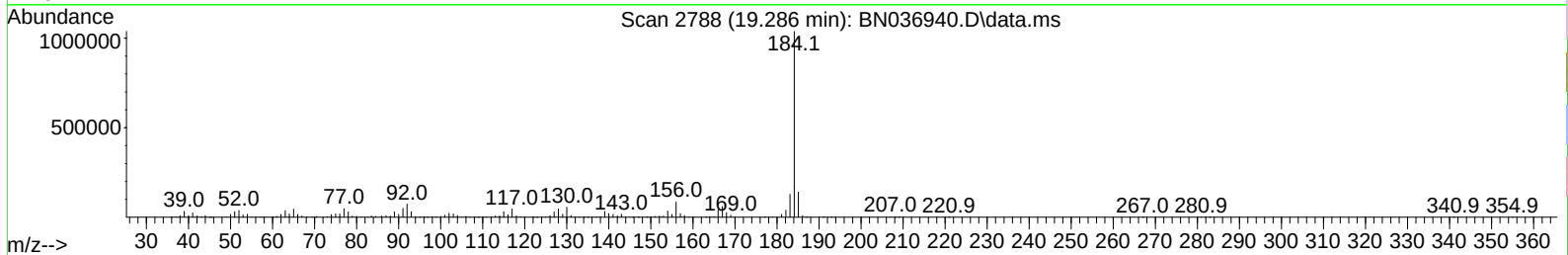
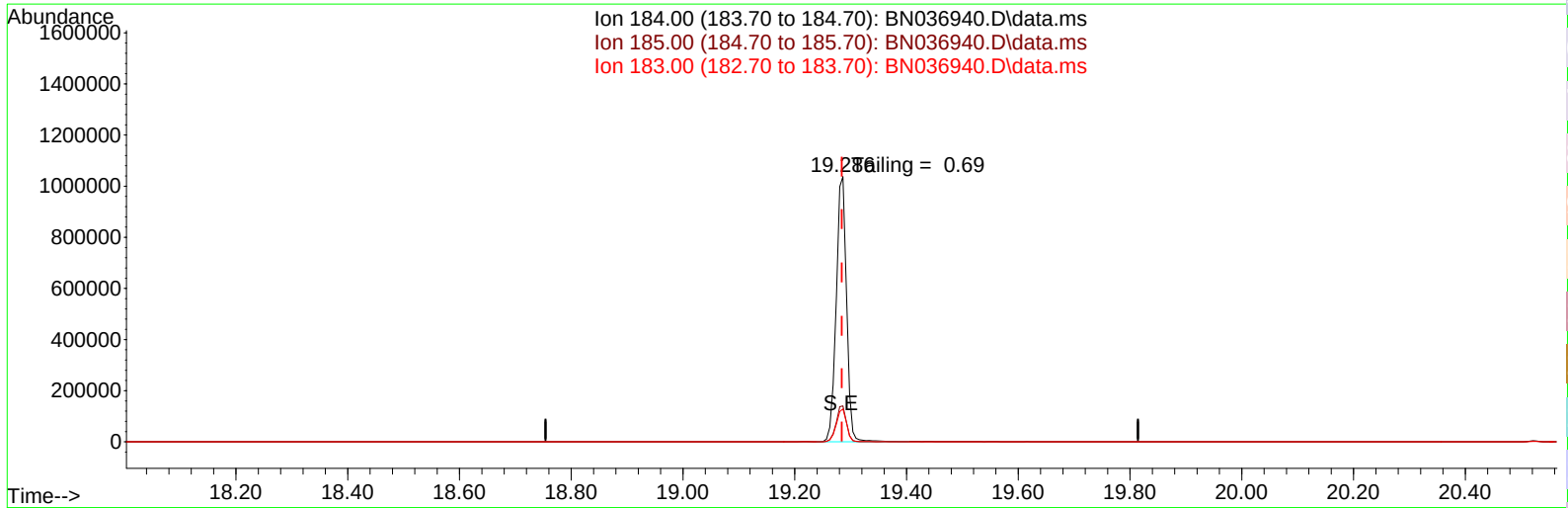
response 213988

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.09
264.00	61.60	59.99
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036940.D
Acq On : 30 Apr 2025 10:20
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 30 17:05:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036940.D\data.ms

(77) Benzidine

19.286min (+ 0.002) 0.00 ng

response 1344463

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.57
183.00	13.20	12.39
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
4/30/2025	BNA_N	<u>BN036940.D</u>
Compound Name	Response	Retention Time
DDT	689285	20.521
DDD	5971	20.133
DDE	0	19.58
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
5971	695256	0.86

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage - RW5B CTO WE13 112G08005	Date Received:	
Client Sample ID:	PB167760BL	SDG No.:	Q1886
Lab Sample ID:	PB167760BL	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
BN036942.D	1	04/28/25 08:50	04/30/25 11:38	PB167760

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	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		30 - 150		71%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		70%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		73%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.31		58 - 132		77%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2640	7.633				
1146-65-2	Naphthalene-d8	6300	10.415				
15067-26-2	Acenaphthene-d10	3240	14.277				
1517-22-2	Phenanthrene-d10	6250	17.021				
1719-03-5	Chrysene-d12	4200	21.224				
1520-96-3	Perylene-d12	3580	23.43				

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\BN043025\
Data File : BN036942.D
Acq On : 30 Apr 2025 11:38
Operator : RC/JU
Sample : PB167760BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167760BL

Quant Time: Apr 30 12:32:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2641	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6297	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3237	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6245	0.400	ng	0.00
29) Chrysene-d12	21.224	240	4196	0.400	ng	# 0.00
35) Perylene-d12	23.430	264	3575	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	1874	0.277	ng	0.00
5) Phenol-d6	6.809	99	2138	0.257	ng	0.00
8) Nitrobenzene-d5	8.781	82	1844	0.280	ng	0.00
11) 2-Methylnaphthalene-d10	12.016	152	2412	0.274	ng	0.01
14) 2,4,6-Tribromophenol	15.780	330	229	0.159	ng	0.01
15) 2-Fluorobiphenyl	12.904	172	4560	0.291	ng	0.00
27) Fluoranthene-d10	19.059	212	4593	0.284	ng	0.00
31) Terphenyl-d14	19.667	244	3061	0.309	ng	0.00

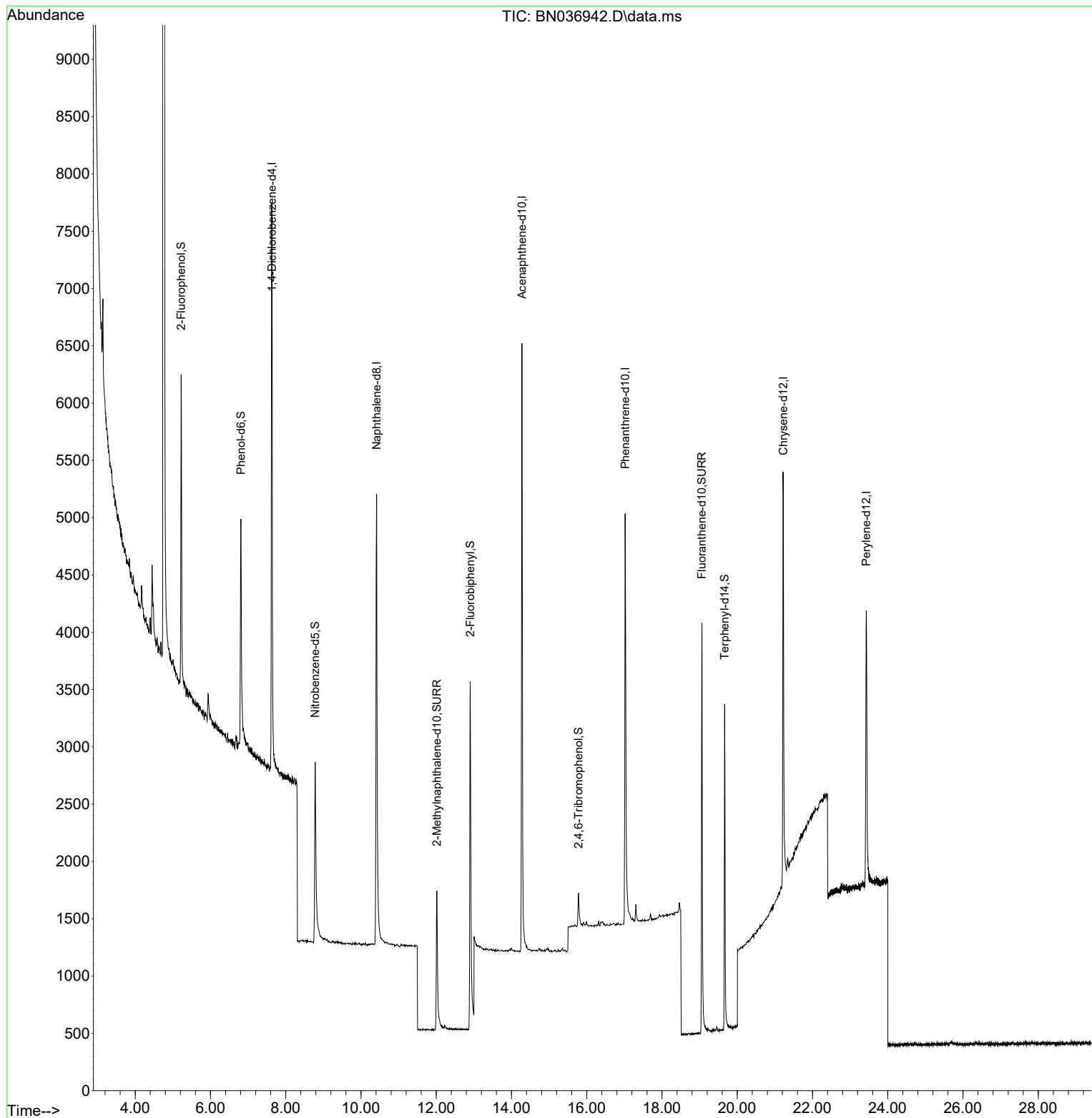
Target Compounds Qvalue

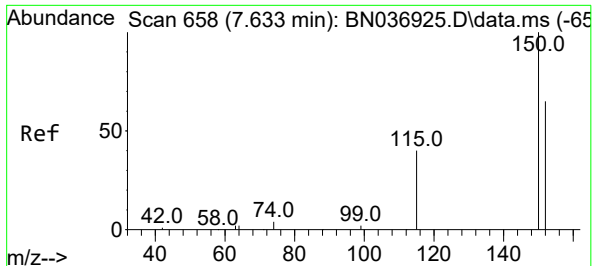
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036942.D
Acq On : 30 Apr 2025 11:38
Operator : RC/JU
Sample : PB167760BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167760BL

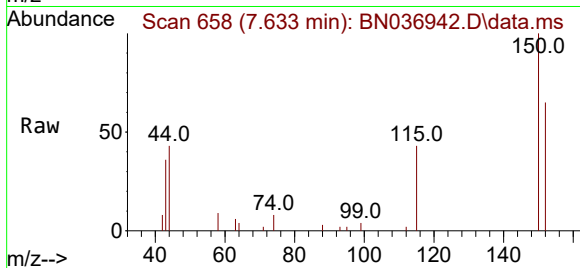
Quant Time: Apr 30 12:32:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



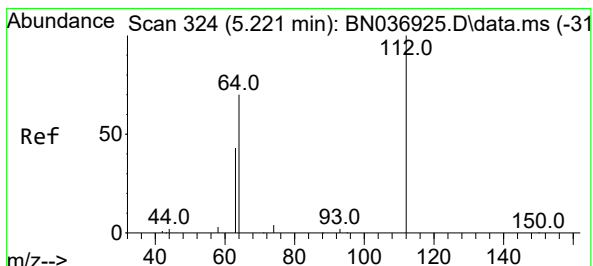
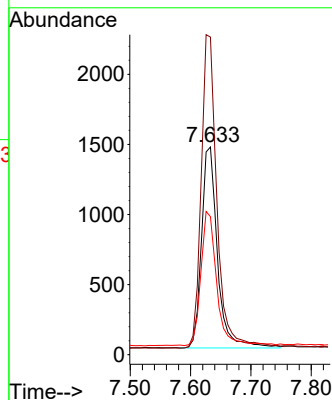


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036942.D
Acq: 30 Apr 2025 11:38

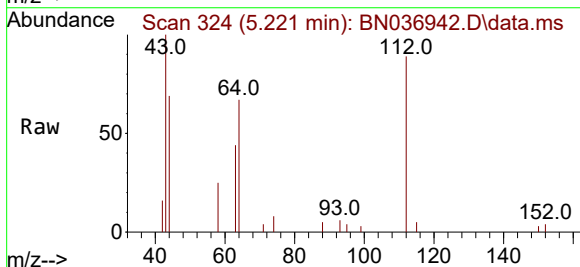
Instrument :
BNA_N
ClientSampleId :
PB167760BL



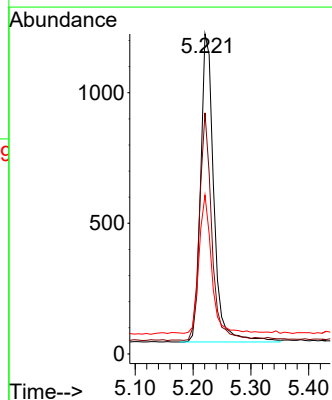
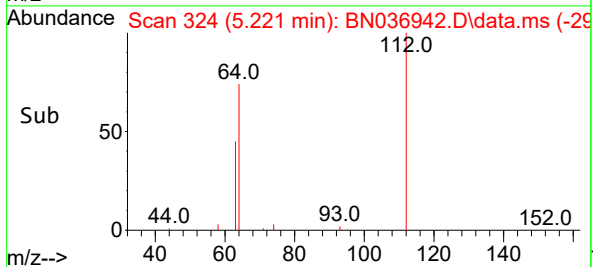
Tgt Ion:152 Resp: 2641
Ion Ratio Lower Upper
152 100
150 152.9 121.1 181.7
115 66.5 51.8 77.6

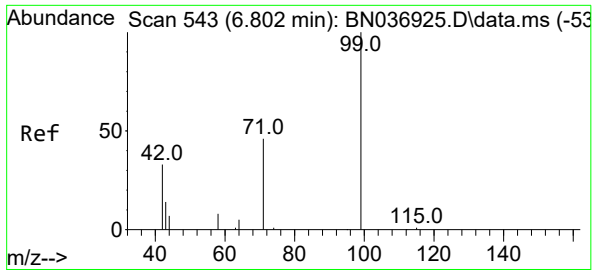


#4
2-Fluorophenol
Concen: 0.277 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN036942.D
Acq: 30 Apr 2025 11:38



Tgt Ion:112 Resp: 1874
Ion Ratio Lower Upper
112 100
64 69.1 55.7 83.5
63 42.5 33.9 50.9

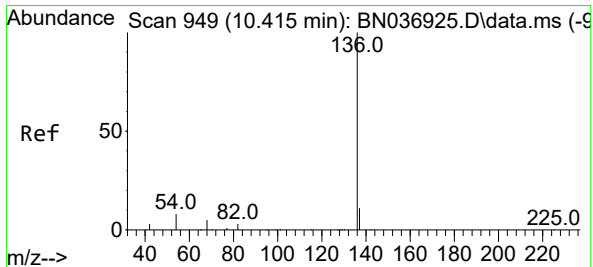
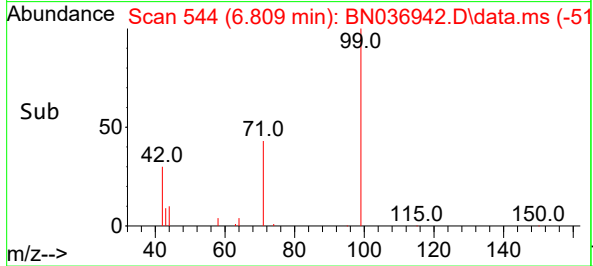
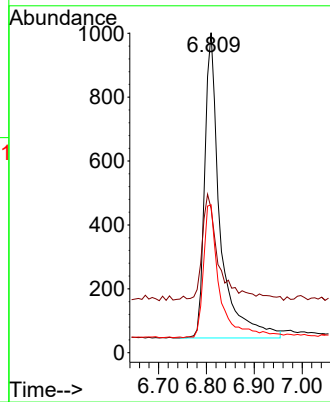
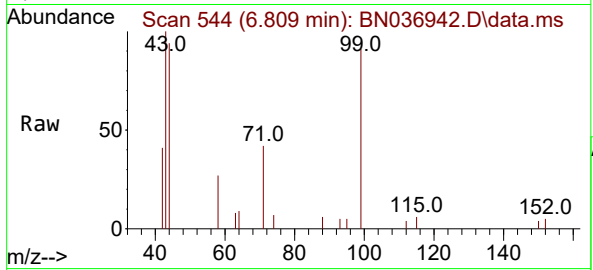




#5
Phenol-d6
Concen: 0.257 ng
RT: 6.809 min Scan# 543
Delta R.T. 0.007 min
Lab File: BN036942.D
Acq: 30 Apr 2025 11:38

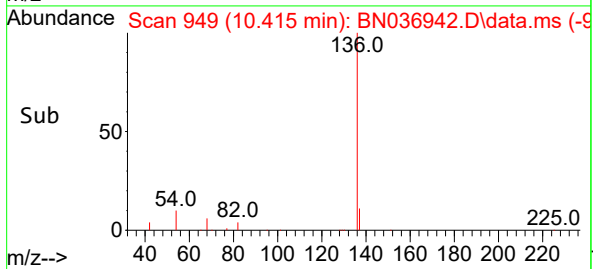
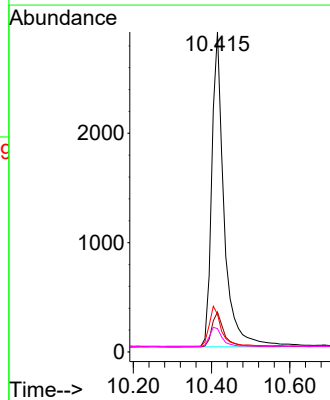
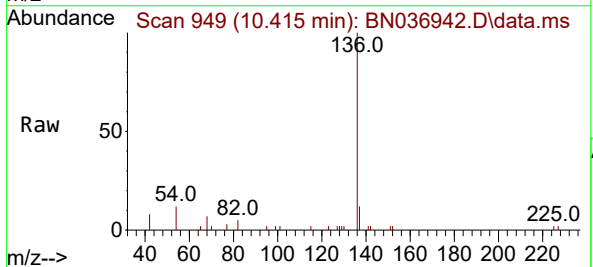
Instrument :
BNA_N
ClientSampleId :
PB167760BL

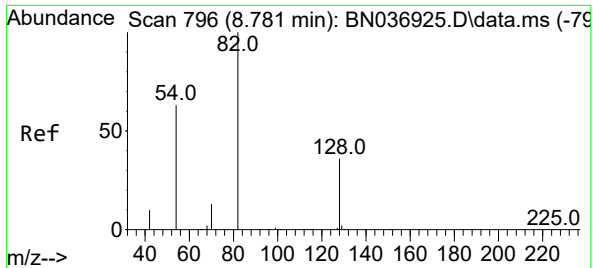
Tgt Ion: 99 Resp: 2138
Ion Ratio Lower Upper
99 100
42 34.0 29.6 44.4
71 46.1 36.0 54.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. 0.000 min
Lab File: BN036942.D
Acq: 30 Apr 2025 11:38

Tgt Ion: 136 Resp: 6297
Ion Ratio Lower Upper
136 100
137 12.4 9.7 14.5
54 11.8 8.0 12.0
68 7.3 5.1 7.7

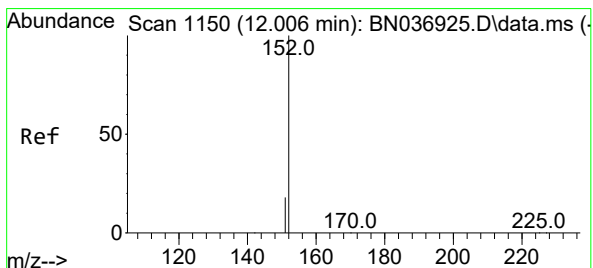
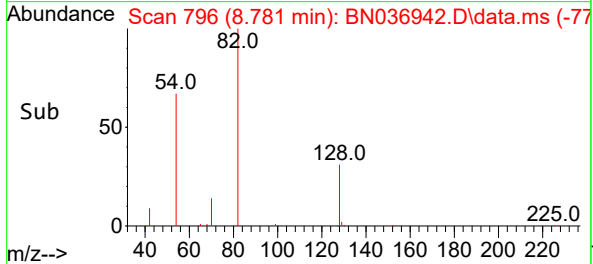
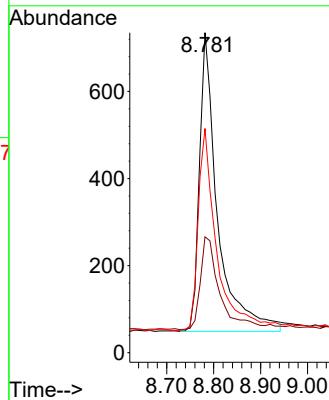
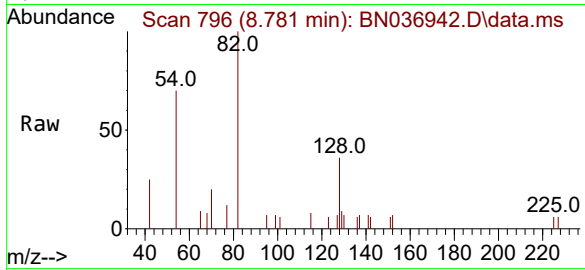




#8
Nitrobenzene-d5
Concen: 0.280 ng
RT: 8.781 min Scan# 796
Delta R.T. 0.000 min
Lab File: BN036942.D
Acq: 30 Apr 2025 11:38

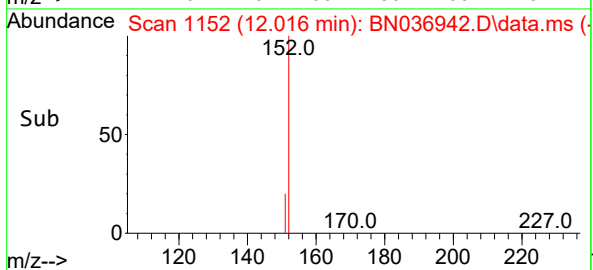
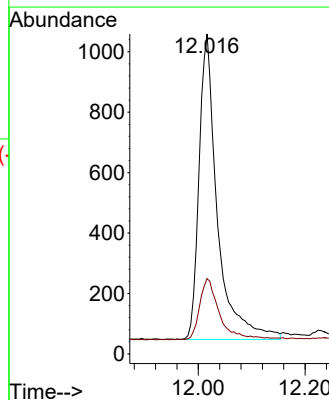
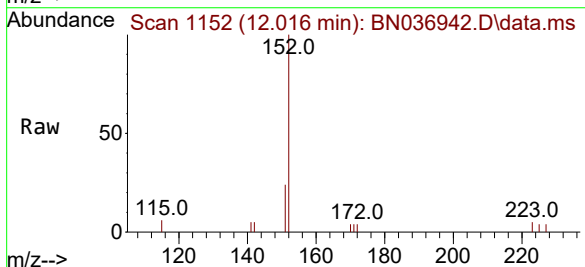
Instrument :
BNA_N
ClientSampleId :
PB167760BL

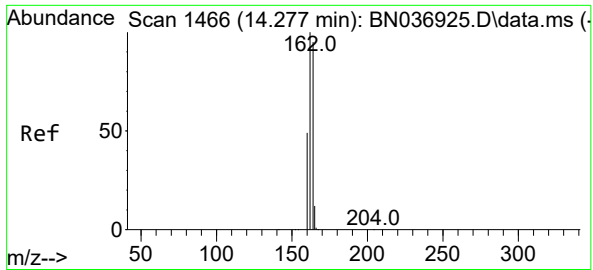
Tgt Ion:	82	Resp:	1844
Ion	Ratio	Lower	Upper
82	100		
128	36.2	30.7	46.1
54	70.1	52.1	78.1



#11
2-Methylnaphthalene-d10
Concen: 0.274 ng
RT: 12.016 min Scan# 1152
Delta R.T. 0.010 min
Lab File: BN036942.D
Acq: 30 Apr 2025 11:38

Tgt Ion:	152	Resp:	2412
Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.9	25.3

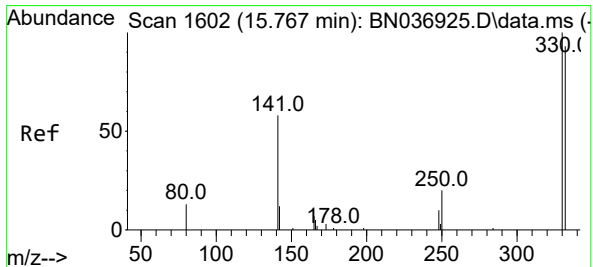
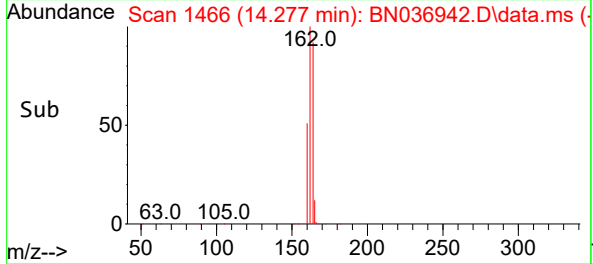
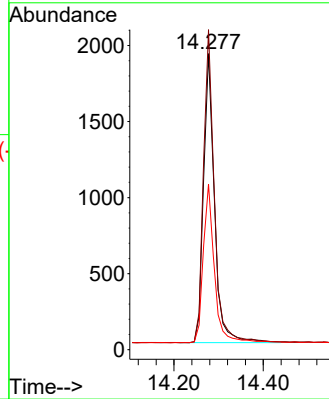
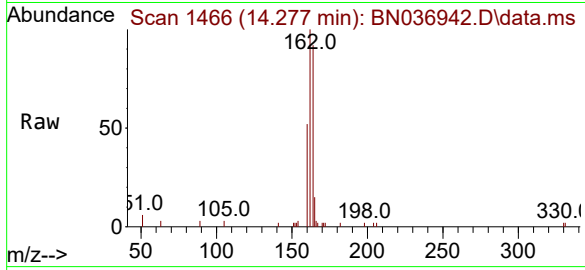




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN036942.D
Acq: 30 Apr 2025 11:38

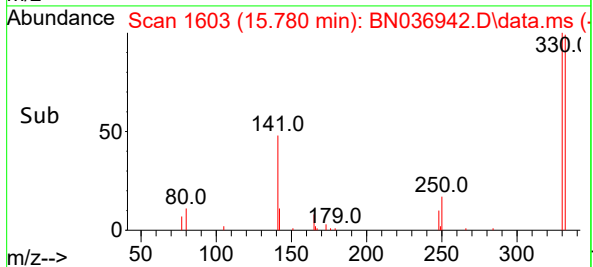
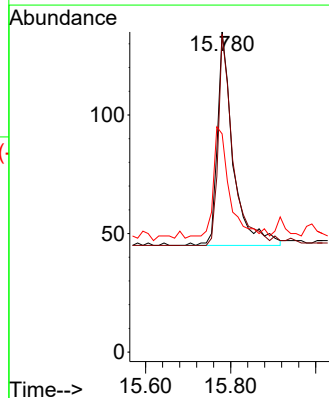
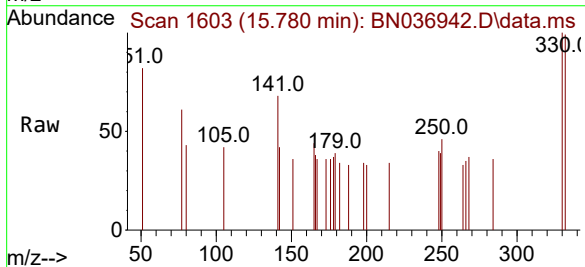
Instrument :
BNA_N
ClientSampleId :
PB167760BL

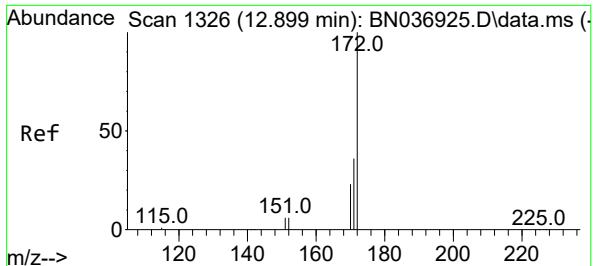
Tgt Ion:164 Resp: 3237
Ion Ratio Lower Upper
164 100
162 108.1 83.8 125.8
160 56.0 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.159 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.012 min
Lab File: BN036942.D
Acq: 30 Apr 2025 11:38

Tgt Ion:330 Resp: 229
Ion Ratio Lower Upper
330 100
332 94.8 76.3 114.5
141 52.8 45.4 68.2





#15

2-Fluorobiphenyl

Concen: 0.291 ng

RT: 12.904 min Scan# 1

Delta R.T. 0.005 min

Lab File: BN036942.D

Acq: 30 Apr 2025 11:38

Instrument :

BNA_N

ClientSampleId :

PB167760BL

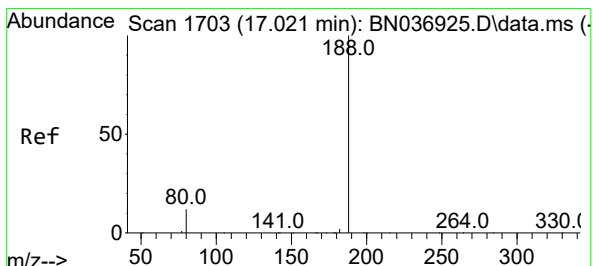
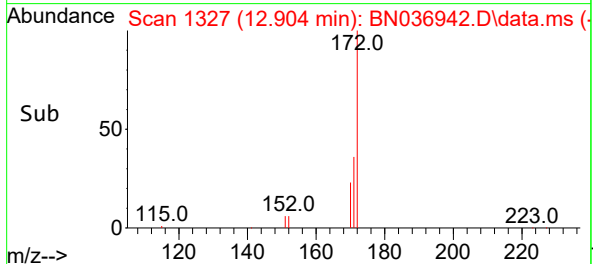
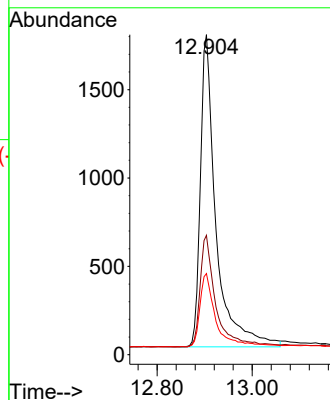
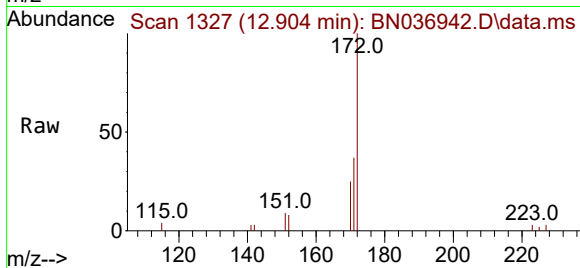
Tgt Ion:172 Resp: 4560

Ion Ratio Lower Upper

172 100

171 37.3 29.4 44.0

170 25.3 19.4 29.0



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1703

Delta R.T. 0.000 min

Lab File: BN036942.D

Acq: 30 Apr 2025 11:38

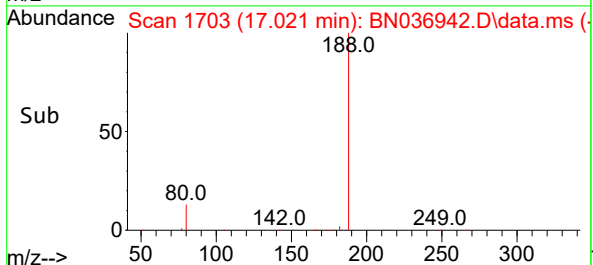
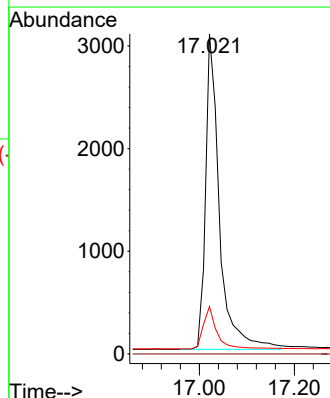
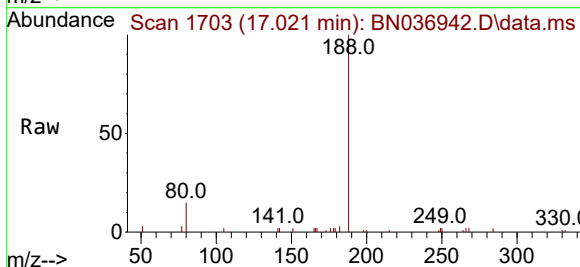
Tgt Ion:188 Resp: 6245

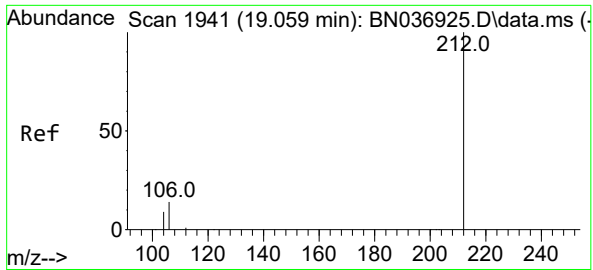
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.8 10.7 16.1

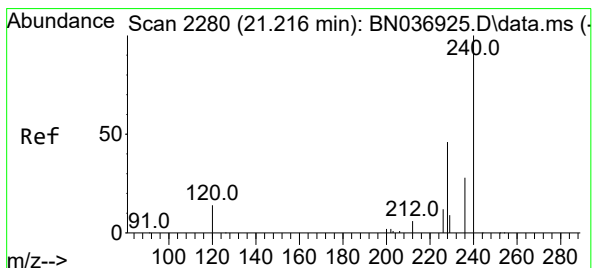
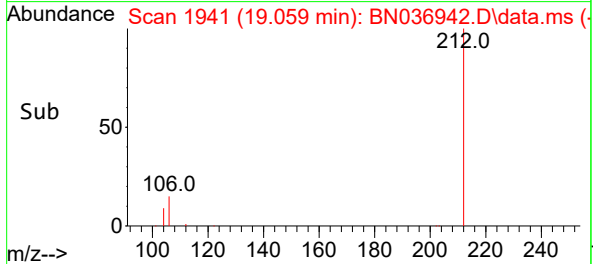
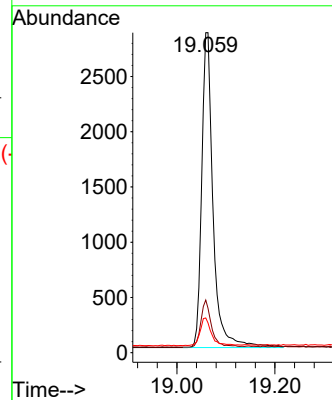
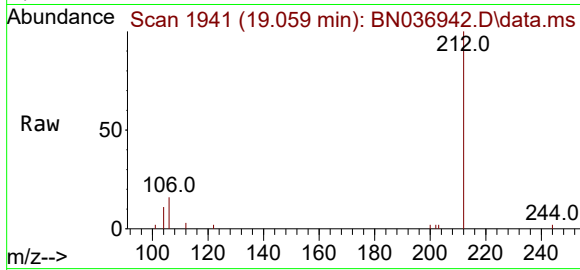




#27
Fluoranthene-d10
Concen: 0.284 ng
RT: 19.059 min Scan# 1941
Delta R.T. 0.000 min
Lab File: BN036942.D
Acq: 30 Apr 2025 11:38

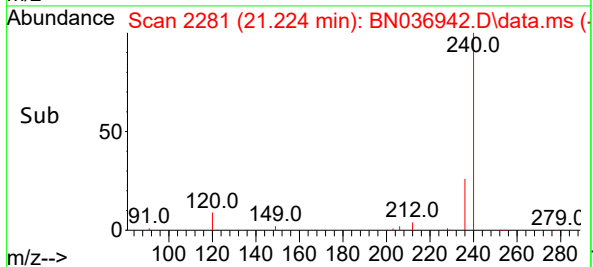
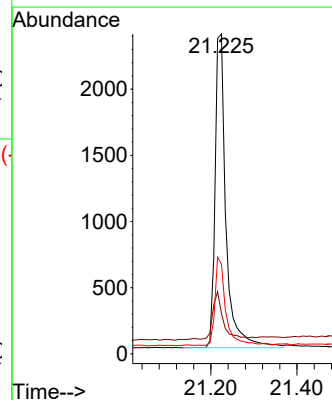
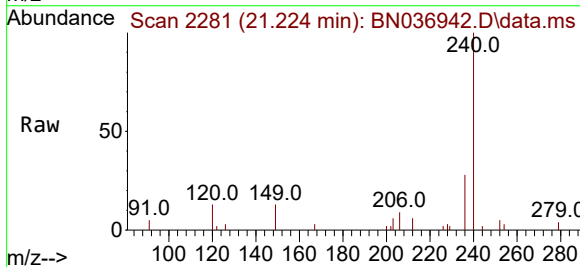
Instrument :
BNA_N
ClientSampleId :
PB167760BL

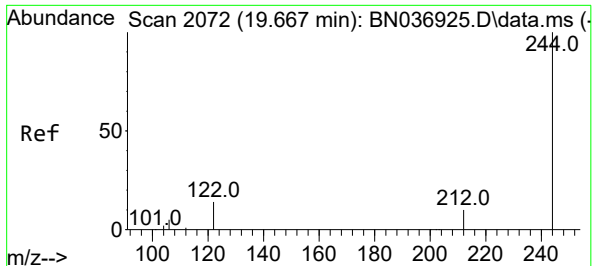
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.8	11.6	17.4
104	8.7	7.0	10.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.224 min Scan# 2281
Delta R.T. 0.009 min
Lab File: BN036942.D
Acq: 30 Apr 2025 11:38

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.7	14.1	21.1#
236	28.1	23.8	35.8

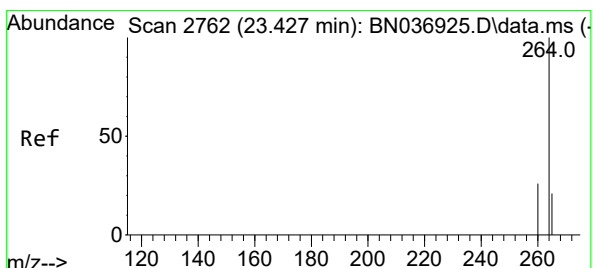
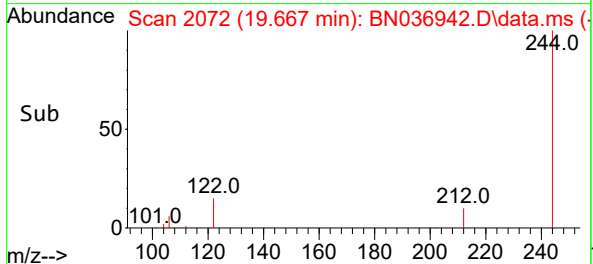
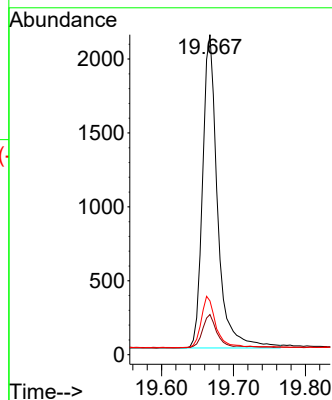
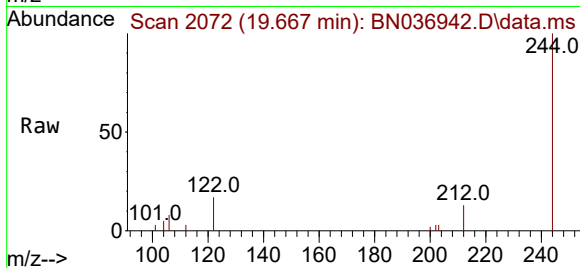




#31
Terphenyl-d14
Concen: 0.309 ng
RT: 19.667 min Scan# 2072
Delta R.T. 0.000 min
Lab File: BN036942.D
Acq: 30 Apr 2025 11:38

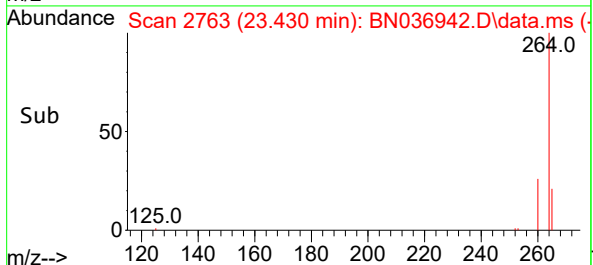
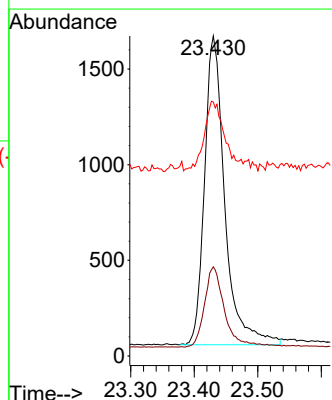
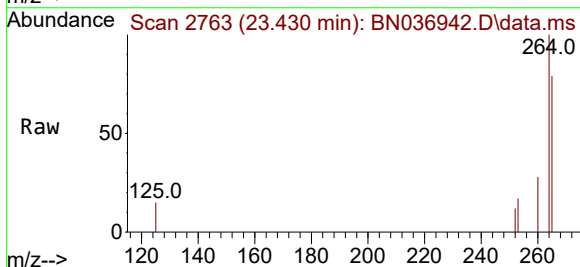
Instrument :
BNA_N
ClientSampleId :
PB167760BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.6	9.6	14.4
122	16.8	12.7	19.1



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.430 min Scan# 2763
Delta R.T. 0.003 min
Lab File: BN036942.D
Acq: 30 Apr 2025 11:38

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.9	22.2	33.2
265	79.4	65.8	98.6



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage - RW5B CTO WE13 112G08005	Date Received:	
Client Sample ID:	PB167760BS	SDG No.:	Q1886
Lab Sample ID:	PB167760BS	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
BN036952.D	1	04/28/25 08:50	04/30/25 18:17	PB167760

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.29		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2070	7.626				
1146-65-2	Naphthalene-d8	5160	10.404				
15067-26-2	Acenaphthene-d10	2730	14.277				
1517-22-2	Phenanthrene-d10	5420	17.021				
1719-03-5	Chrysene-d12	4130	21.216				
1520-96-3	Perylene-d12	3490	23.424				

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\BN043025\
 Data File : BN036952.D
 Acq On : 30 Apr 2025 18:17
 Operator : RC/JU
 Sample : PB167760BS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167760BS

Quant Time: May 01 01:12:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

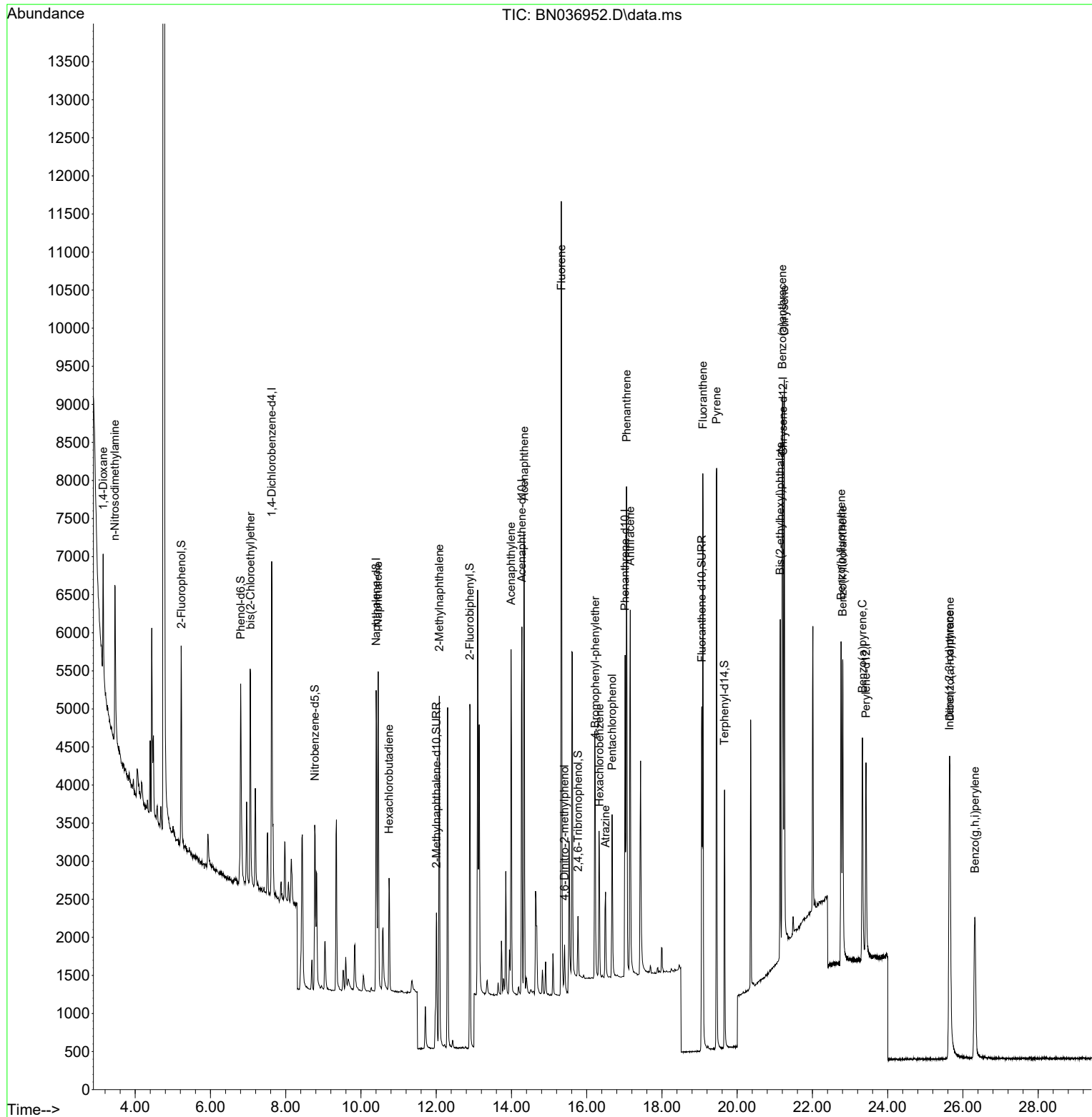
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.626	152	2072	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	5162	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	2727	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5423	0.400	ng	0.00
29) Chrysene-d12	21.216	240	4126	0.400	ng	# 0.00
35) Perylene-d12	23.424	264	3488	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	1848	0.349	ng	0.00
5) Phenol-d6	6.802	99	2148	0.329	ng	0.00
8) Nitrobenzene-d5	8.771	82	1862	0.345	ng	-0.01
11) 2-Methylnaphthalene-d10	12.006	152	2630m	0.364	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	416	0.342	ng	0.00
15) 2-Fluorobiphenyl	12.894	172	4134	0.314	ng	0.00
27) Fluoranthene-d10	19.059	212	4961	0.353	ng	0.00
31) Terphenyl-d14	19.663	244	3494	0.359	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.148	88	740	0.287	ng	# 43
3) n-Nitrosodimethylamine	3.458	42	1917	0.383	ng	# 94
6) bis(2-Chloroethyl)ether	7.062	93	2097	0.347	ng	96
9) Naphthalene	10.458	128	5188	0.345	ng	99
10) Hexachlorobutadiene	10.746	225	1196	0.368	ng	# 98
12) 2-Methylnaphthalene	12.082	142	3288	0.339	ng	99
16) Acenaphthylene	13.989	152	4827	0.362	ng	99
17) Acenaphthene	14.342	154	3061	0.350	ng	100
18) Fluorene	15.325	166	3953	0.345	ng	100
20) 4,6-Dinitro-2-methylph...	15.411	198	481	0.335	ng	# 78
21) 4-Bromophenyl-phenylether	16.227	248	1251	0.346	ng	98
22) Hexachlorobenzene	16.338	284	1382	0.348	ng	96
23) Atrazine	16.500	200	1092	0.374	ng	98
24) Pentachlorophenol	16.674	266	1008	0.474	ng	98
25) Phenanthrene	17.058	178	6409	0.358	ng	100
26) Anthracene	17.158	178	5818	0.359	ng	100
28) Fluoranthene	19.087	202	7000	0.349	ng	100
30) Pyrene	19.454	202	7102	0.357	ng	99
32) Benzo(a)anthracene	21.198	228	5546	0.365	ng	99
33) Chrysene	21.251	228	6250	0.381	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	3105	0.359	ng	100
36) Indeno(1,2,3-cd)pyrene	25.640	276	5142	0.361	ng	98
37) Benzo(b)fluoranthene	22.763	252	5169	0.352	ng	99
38) Benzo(k)fluoranthene	22.801	252	5282	0.358	ng	99
39) Benzo(a)pyrene	23.328	252	4501	0.373	ng	99
40) Dibenzo(a,h)anthracene	25.652	278	3958	0.353	ng	98
41) Benzo(g,h,i)perylene	26.316	276	4079	0.328	ng	97

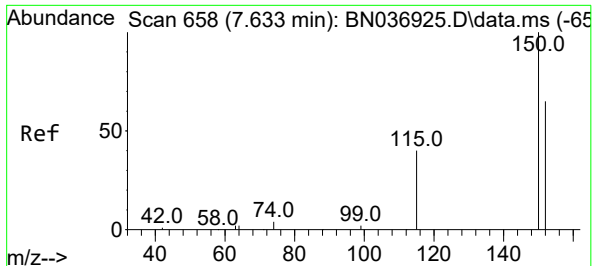
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036952.D
Acq On : 30 Apr 2025 18:17
Operator : RC/JU
Sample : PB167760BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167760BS

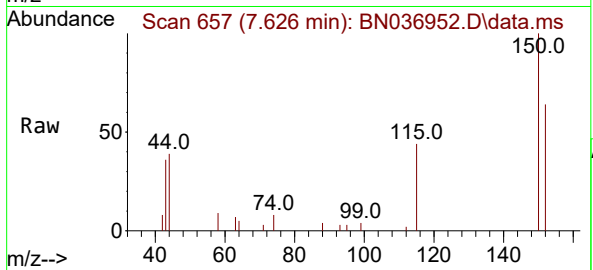
Quant Time: May 01 01:12:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



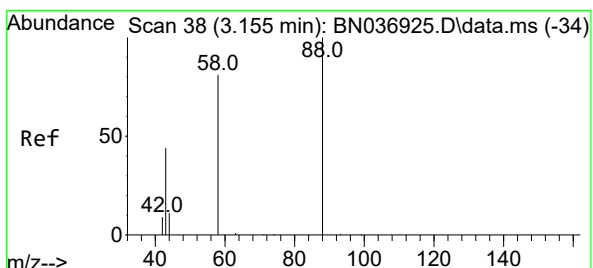
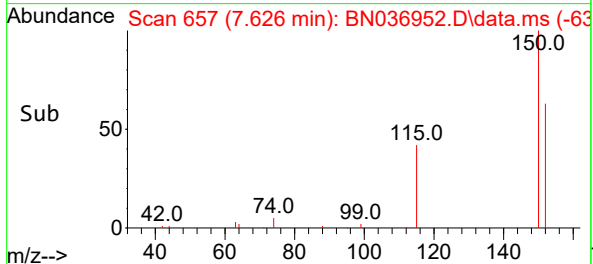
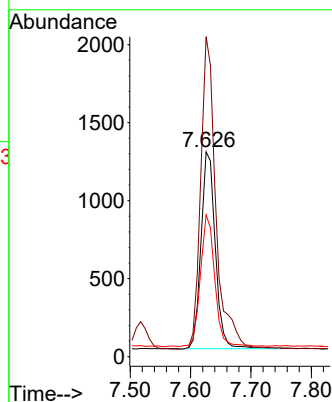


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.626 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Instrument :
BNA_N
ClientSampleId :
PB167760BS

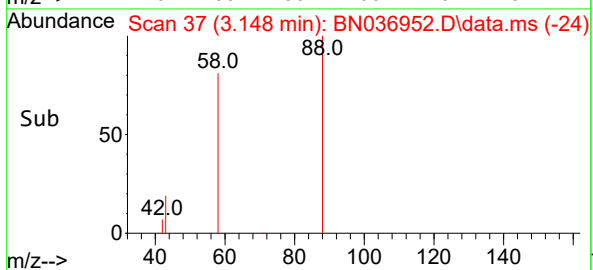
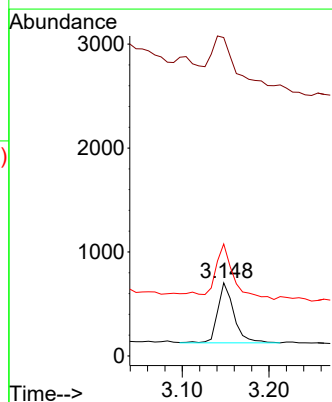
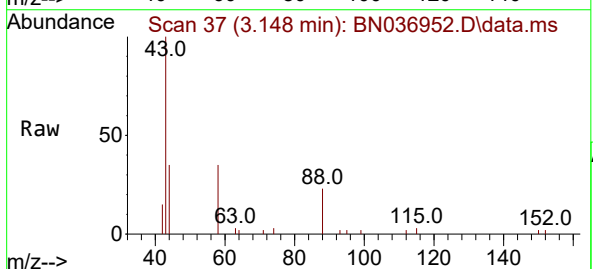


Tgt Ion: 152 Resp: 2072
Ion Ratio Lower Upper
152 100
150 156.2 121.1 181.7
115 69.2 51.8 77.6

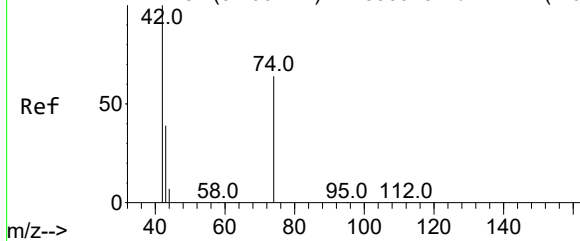


#2
1,4-Dioxane
Concen: 0.287 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion: 88 Resp: 740
Ion Ratio Lower Upper
88 100
43 128.4 37.9 56.9#
58 100.1 65.8 98.6#



Abundance Scan 81 (3.466 min): BN036925.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.383 ng

RT: 3.458 min Scan# 80

Delta R.T. -0.007 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

Instrument :

BNA_N

ClientSampleId :

PB167760BS

Tgt Ion: 42 Resp: 1917

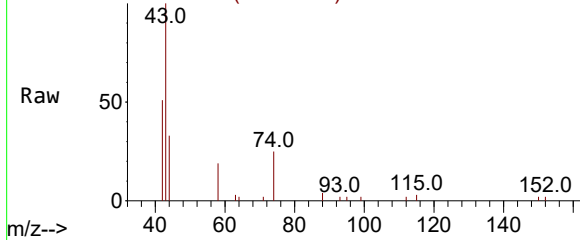
Ion Ratio Lower Upper

42 100

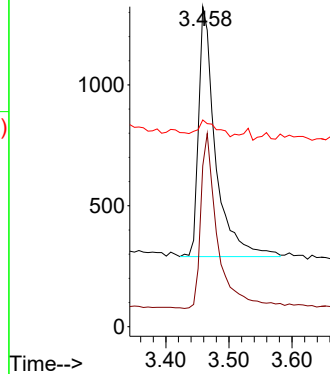
74 70.0 59.9 89.9

44 6.7 7.5 11.3#

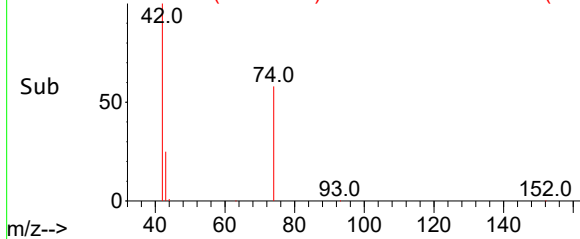
Abundance Scan 80 (3.458 min): BN036952.D\data.ms



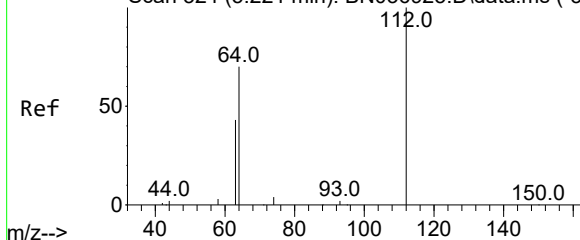
Abundance



Abundance Scan 80 (3.458 min): BN036952.D\data.ms (-60)



Abundance Scan 324 (5.221 min): BN036925.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.349 ng

RT: 5.228 min Scan# 325

Delta R.T. 0.007 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

Tgt Ion: 112 Resp: 1848

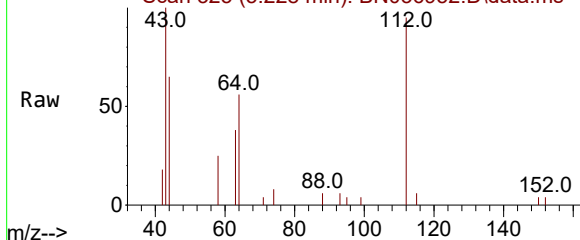
Ion Ratio Lower Upper

112 100

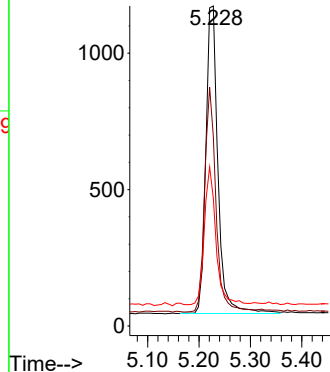
64 68.4 55.7 83.5

63 42.7 33.9 50.9

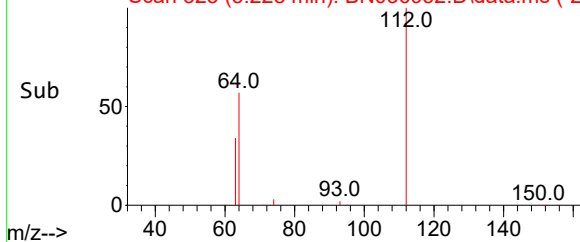
Abundance Scan 325 (5.228 min): BN036952.D\data.ms

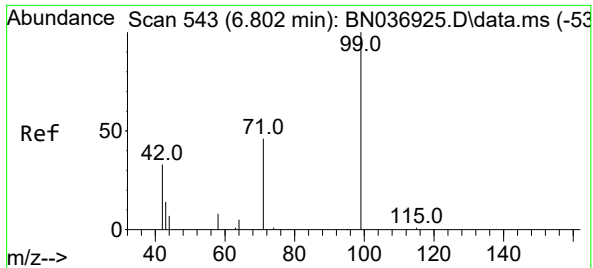


Abundance



Abundance Scan 325 (5.228 min): BN036952.D\data.ms (-29)

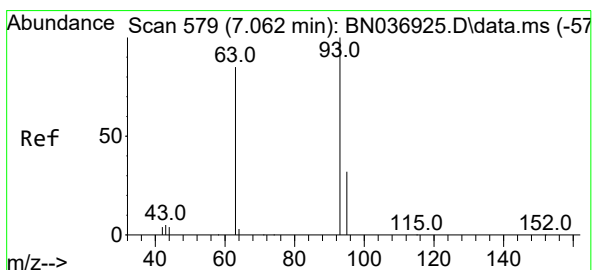
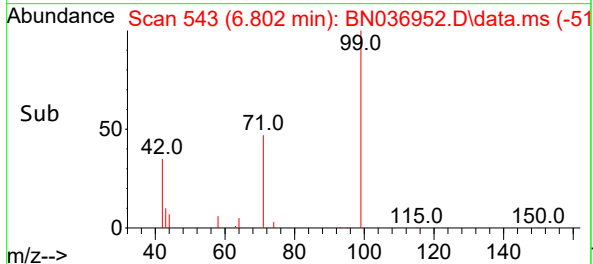
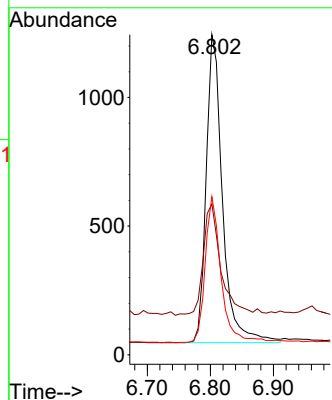
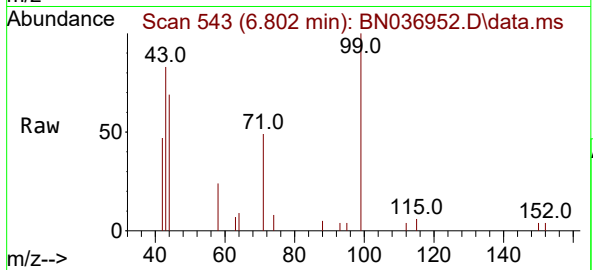




#5
Phenol-d6
Concen: 0.329 ng
RT: 6.802 min Scan# 543
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

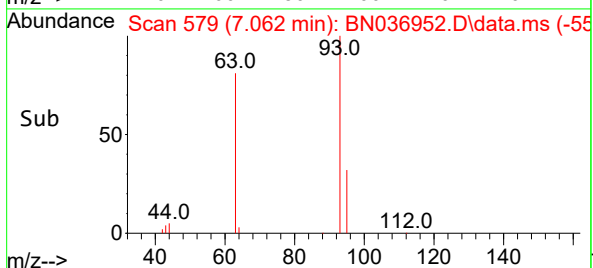
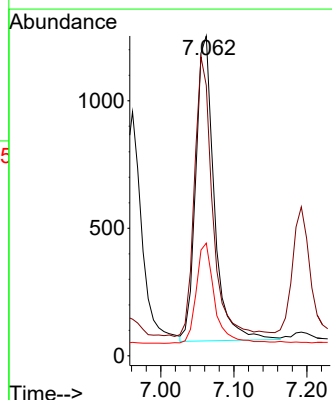
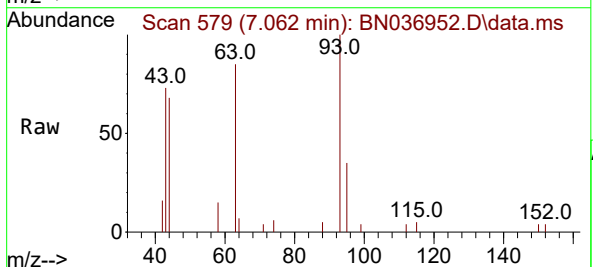
Instrument :
BNA_N
ClientSampleId :
PB167760BS

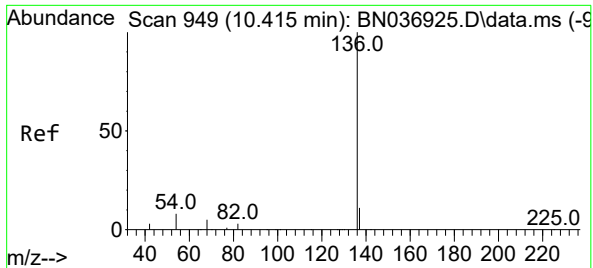
Tgt Ion	Ratio	Lower	Upper
99	100		
42	37.2	29.6	44.4
71	46.3	36.0	54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.347 ng
RT: 7.062 min Scan# 579
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion	Ratio	Lower	Upper
93	100		
63	90.4	69.0	103.6
95	32.7	25.4	38.0

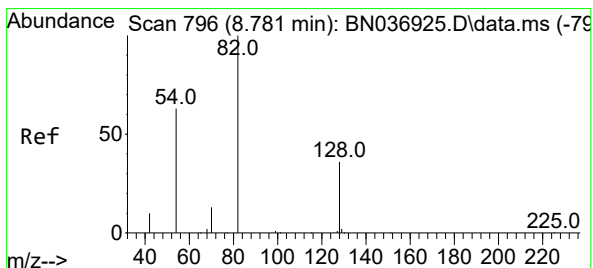
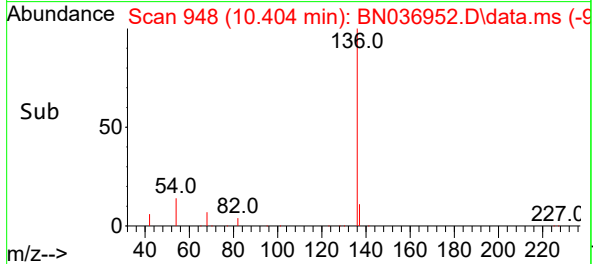
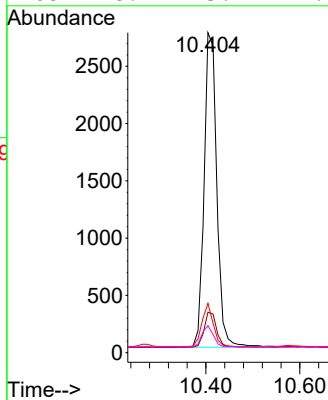
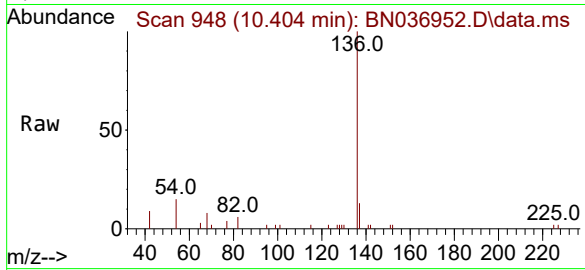




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

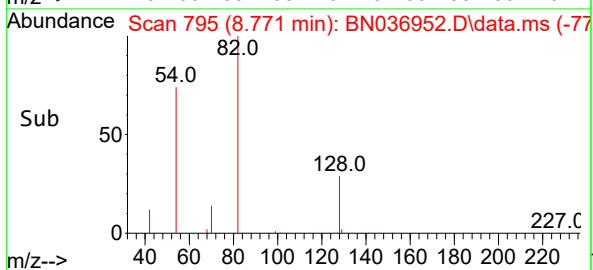
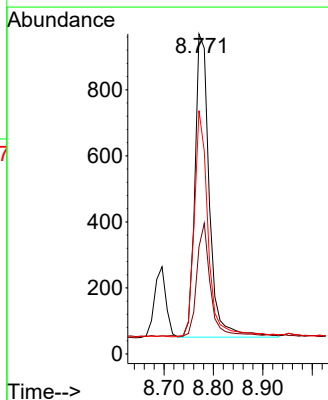
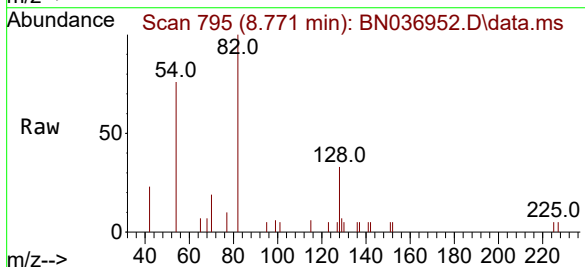
Instrument :
BNA_N
ClientSampleId :
PB167760BS

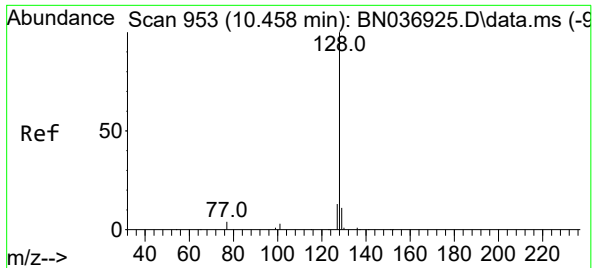
Tgt Ion:	136	Resp:	5162
Ion	Ratio	Lower	Upper
136	100		
137	12.6	9.7	14.5
54	15.4	8.0	12.0#
68	8.4	5.1	7.7#



#8
Nitrobenzene-d5
Concen: 0.345 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion:	82	Resp:	1862
Ion	Ratio	Lower	Upper
82	100		
128	33.4	30.7	46.1
54	76.1	52.1	78.1





#9

Naphthalene

Concen: 0.345 ng

RT: 10.458 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

Instrument :

BNA_N

ClientSampleId :

PB167760BS

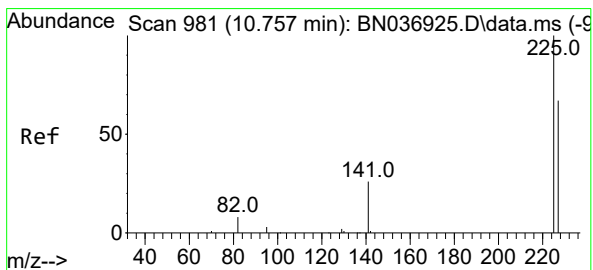
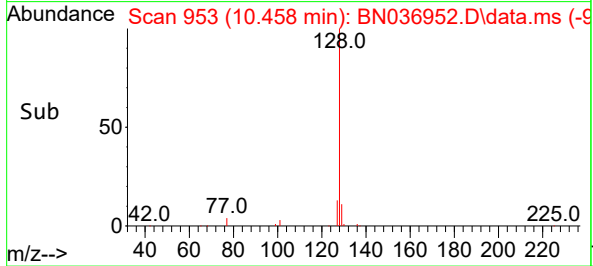
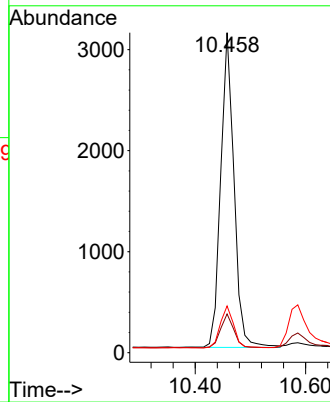
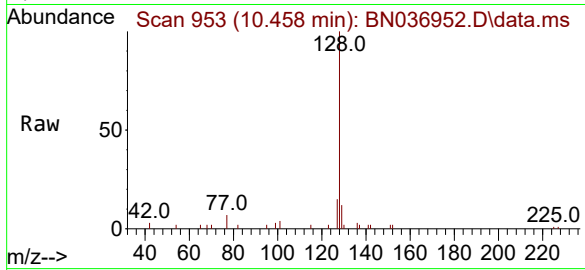
Tgt Ion:128 Resp: 5188

Ion Ratio Lower Upper

128 100

129 12.1 9.8 14.6

127 14.6 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.368 ng

RT: 10.746 min Scan# 980

Delta R.T. -0.011 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

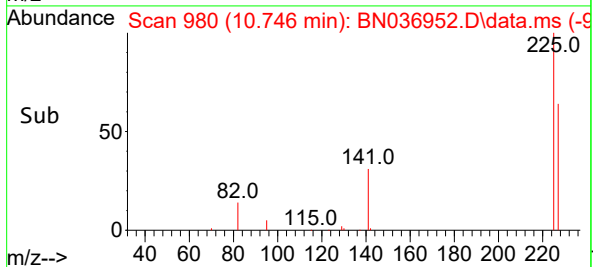
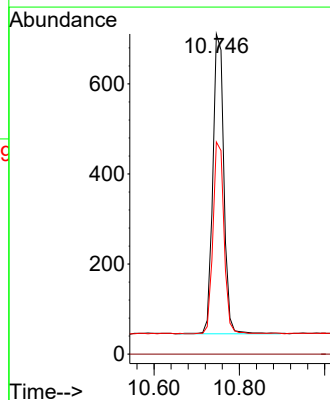
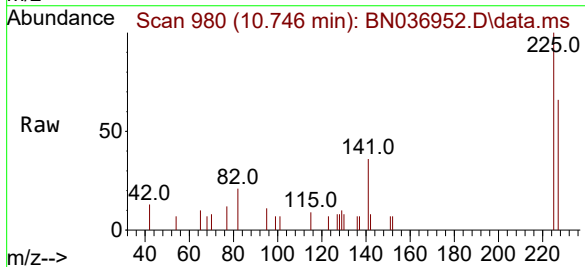
Tgt Ion:225 Resp: 1196

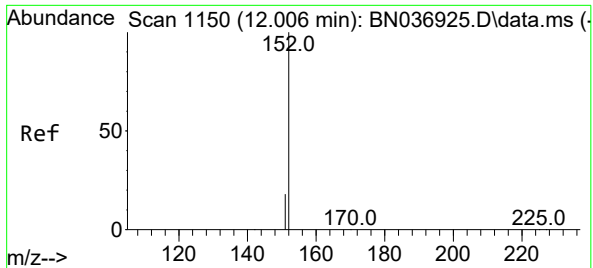
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.0 52.2 78.4

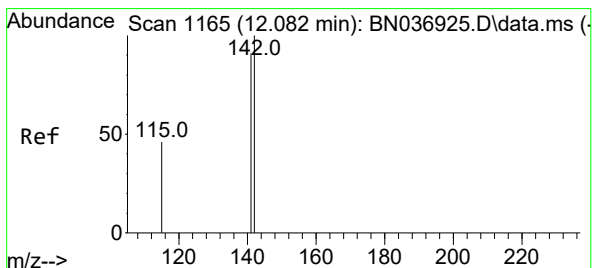
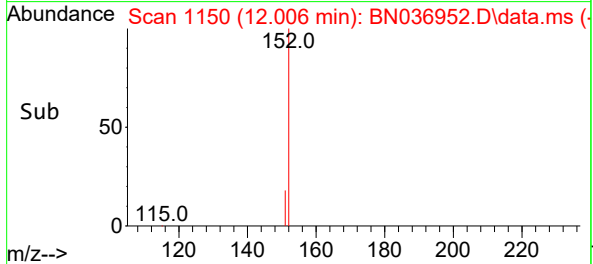
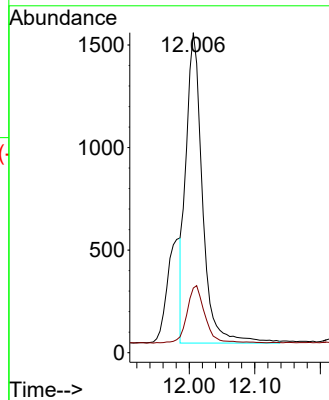
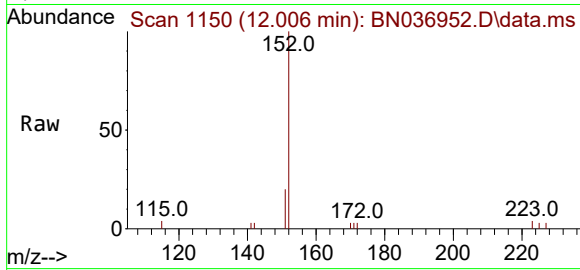




#11
2-Methylnaphthalene-d10
Concen: 0.364 ng m
RT: 12.006 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

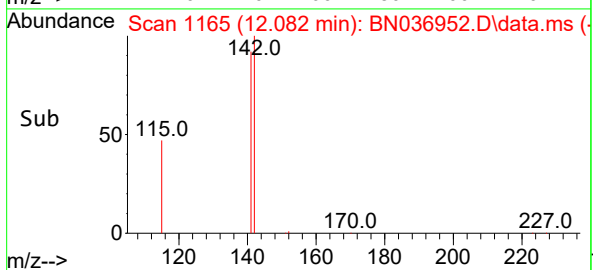
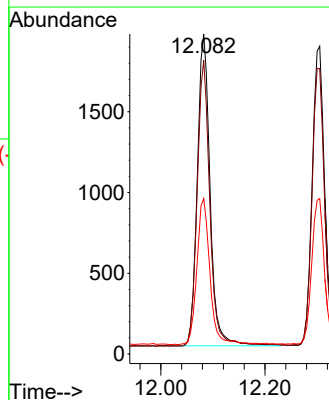
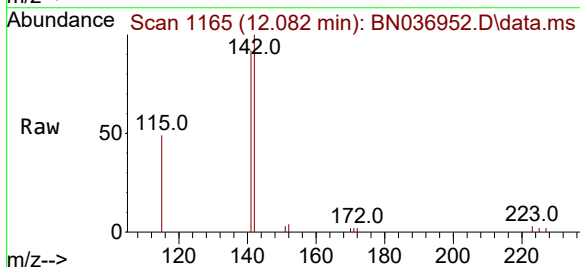
Instrument :
BNA_N
ClientSampleId :
PB167760BS

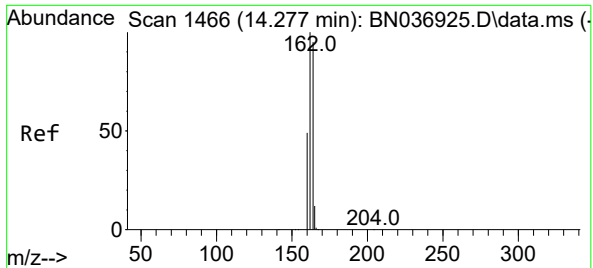
Tgt Ion:152 Resp: 2630
Ion Ratio Lower Upper
152 100
151 20.3 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.339 ng
RT: 12.082 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion:142 Resp: 3288
Ion Ratio Lower Upper
142 100
141 91.8 72.8 109.2
115 48.6 38.2 57.4

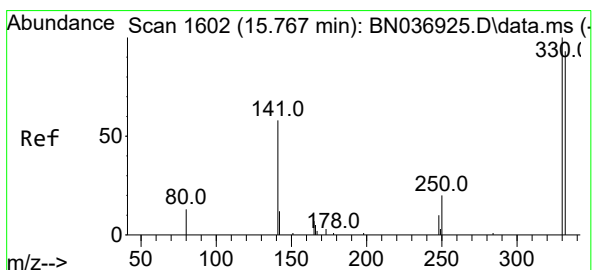
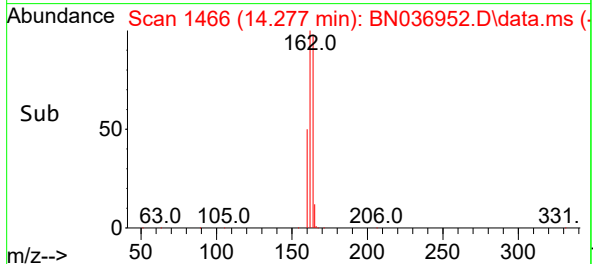
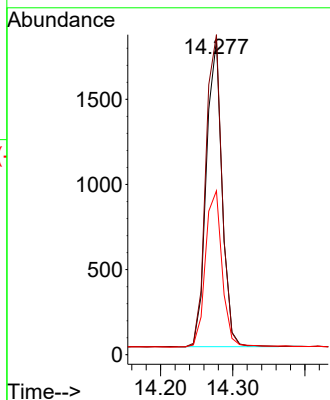
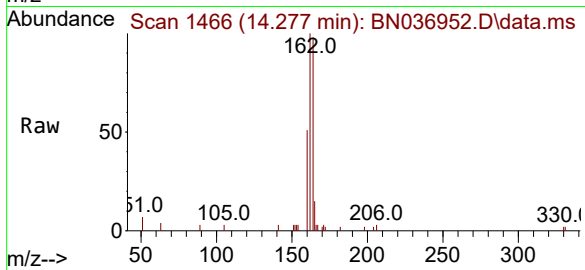




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

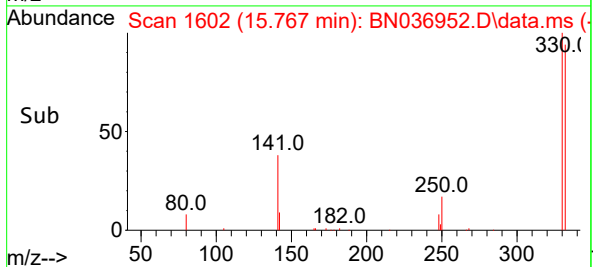
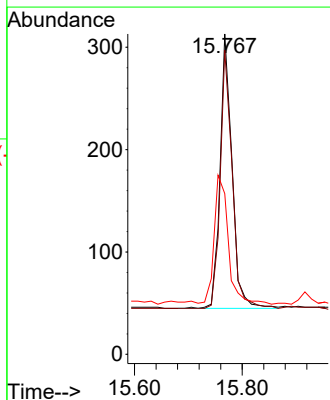
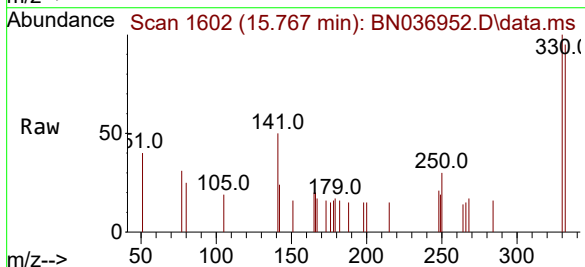
Instrument :
BNA_N
ClientSampleId :
PB167760BS

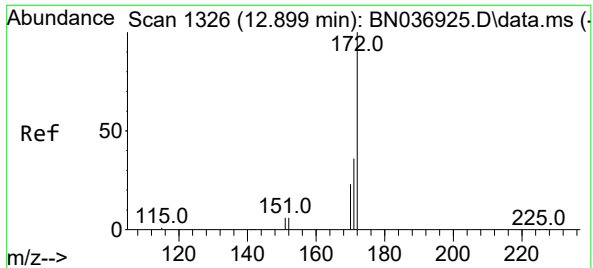
Tgt Ion:164 Resp: 2727
Ion Ratio Lower Upper
164 100
162 101.6 83.8 125.8
160 52.1 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.342 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion:330 Resp: 416
Ion Ratio Lower Upper
330 100
332 93.8 76.3 114.5
141 54.3 45.4 68.2

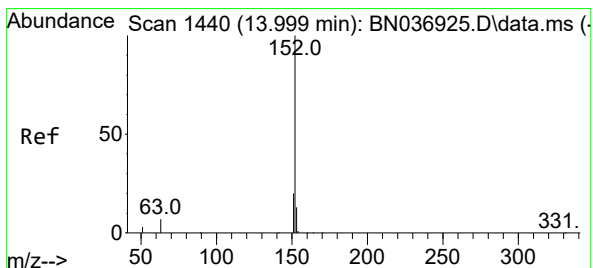
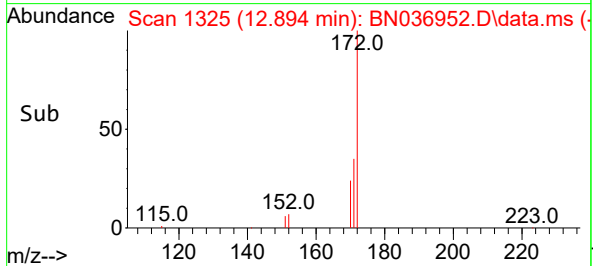
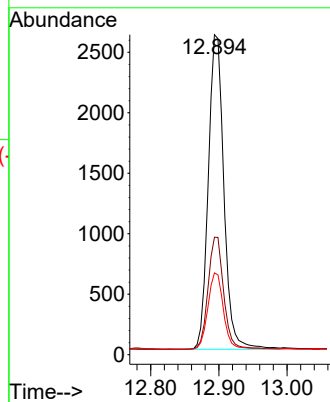
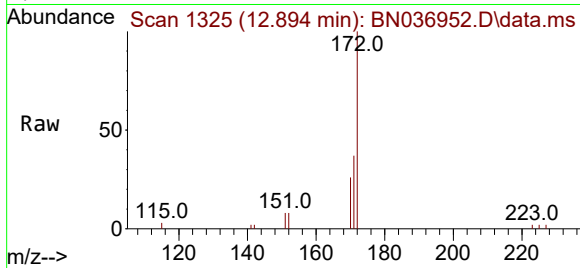




#15
2-Fluorobiphenyl
Concen: 0.314 ng
RT: 12.894 min Scan# 1439
Delta R.T. -0.005 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

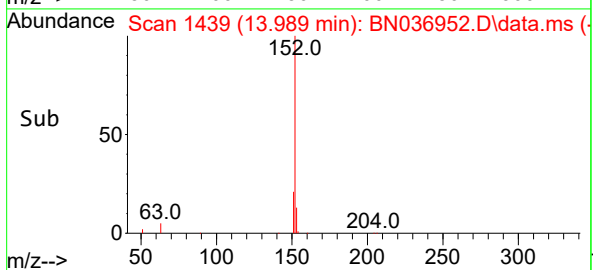
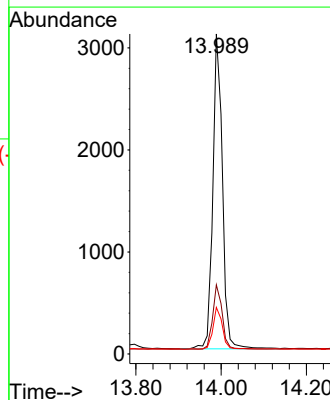
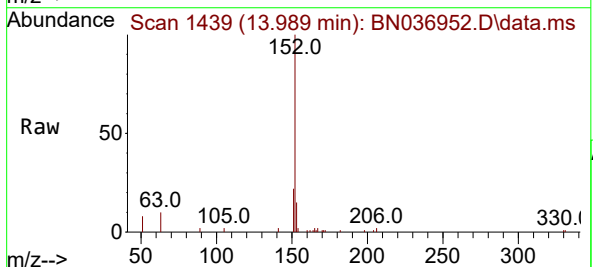
Instrument :
BNA_N
ClientSampleId :
PB167760BS

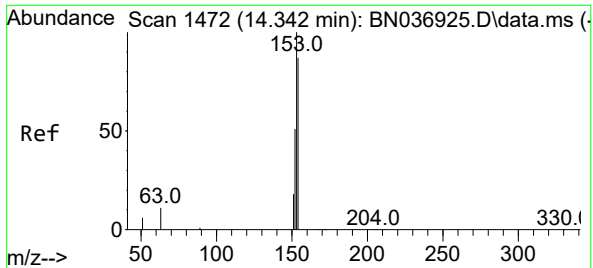
Tgt Ion:	172	Resp:	4134
Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.4	44.0
170	25.6	19.4	29.0



#16
Acenaphthylene
Concen: 0.362 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion:	152	Resp:	4827
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.0	24.0
153	13.3	10.2	15.2

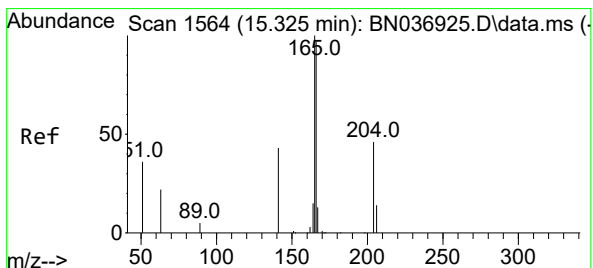
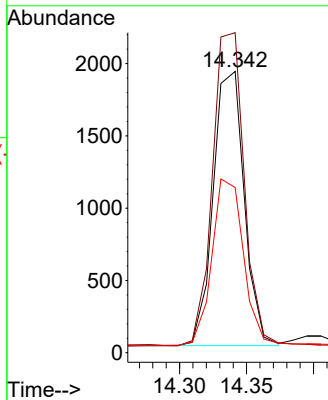
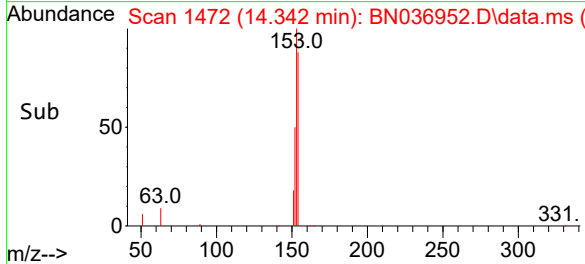
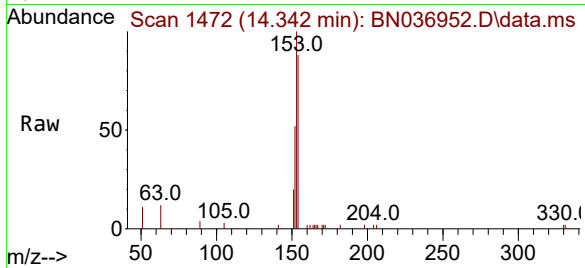




#17
Acenaphthene
Concen: 0.350 ng
RT: 14.342 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

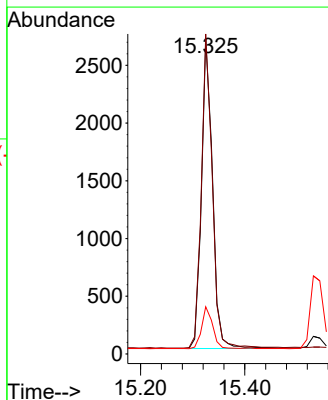
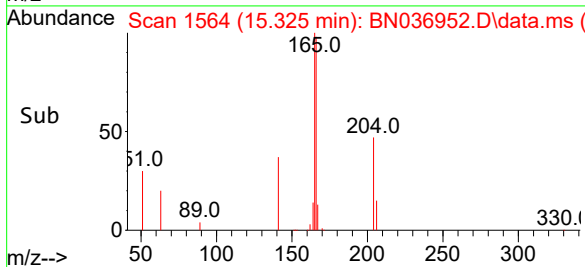
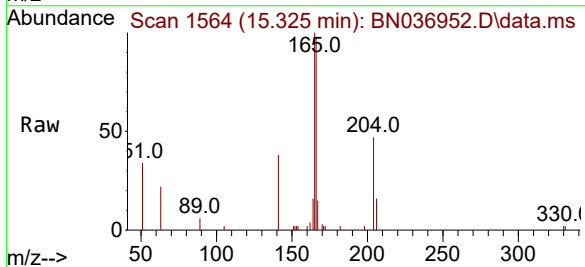
Instrument :
BNA_N
ClientSampleId :
PB167760BS

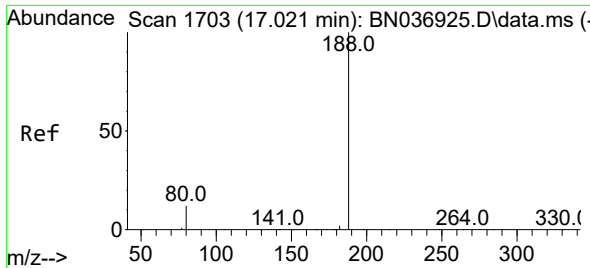
Tgt Ion	Ratio	Lower	Upper
154	100		
153	117.0	93.4	140.2
152	62.4	49.5	74.3



#18
Fluorene
Concen: 0.345 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.9	80.8	121.2
167	13.4	10.8	16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

Instrument :

BNA_N

ClientSampleId :

PB167760BS

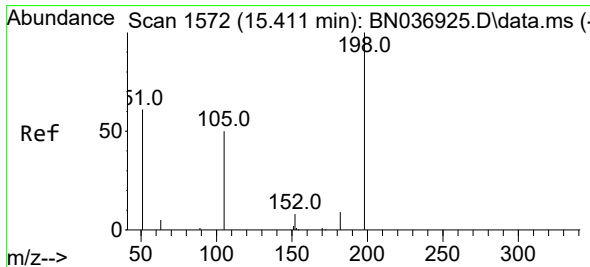
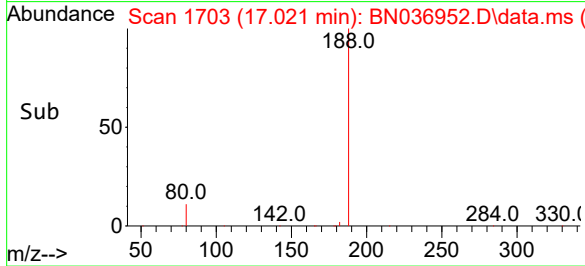
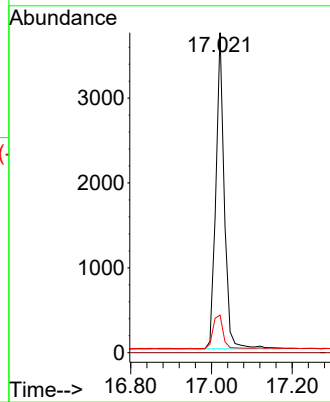
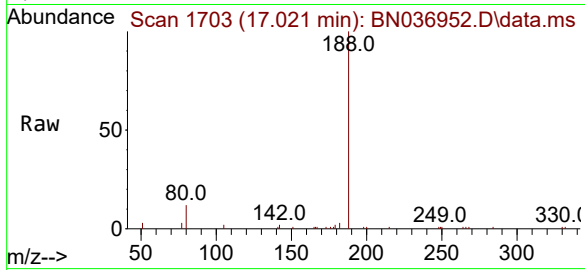
Tgt Ion:188 Resp: 5423

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.7 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.335 ng

RT: 15.411 min Scan# 1572

Delta R.T. -0.000 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

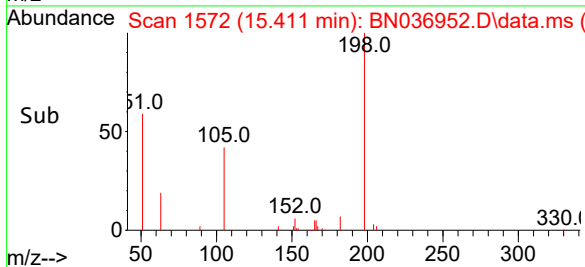
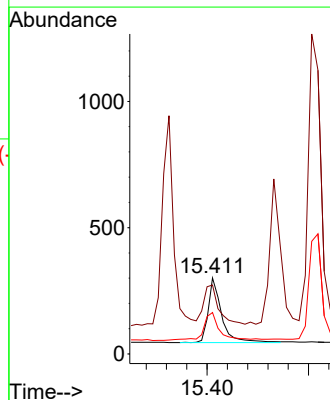
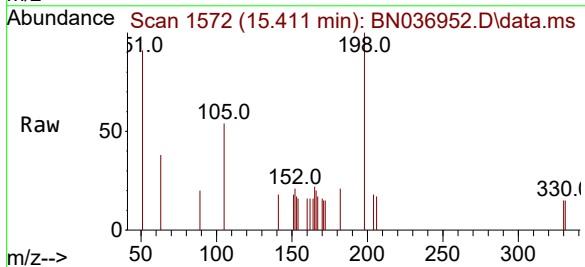
Tgt Ion:198 Resp: 481

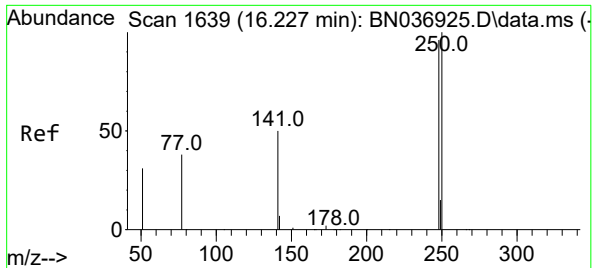
Ion Ratio Lower Upper

198 100

51 90.7 97.9 146.9#

105 54.5 50.0 75.0

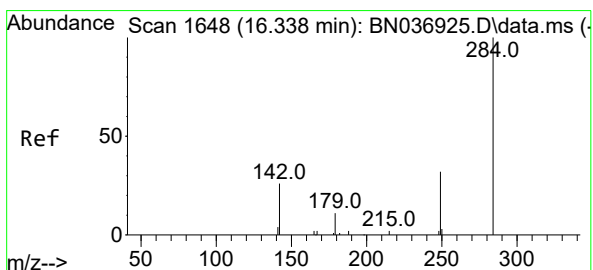
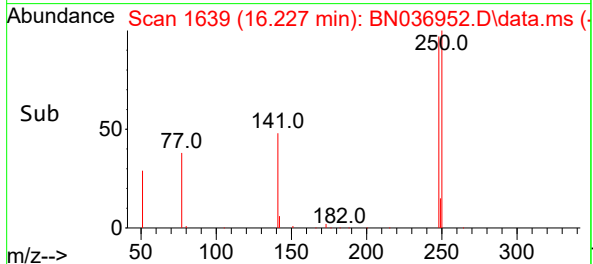
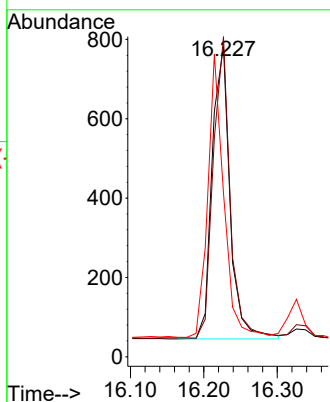
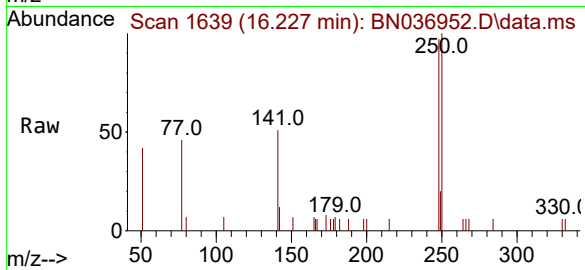




#21
4-Bromophenyl-phenylether
Concen: 0.346 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

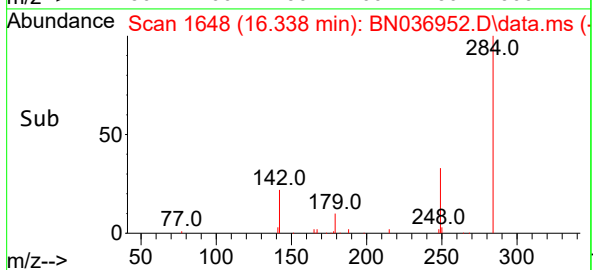
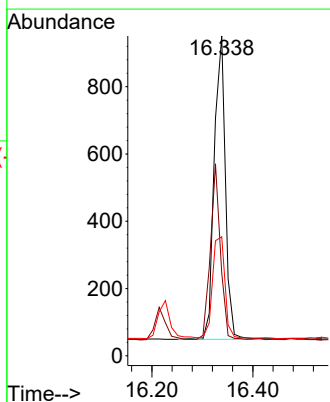
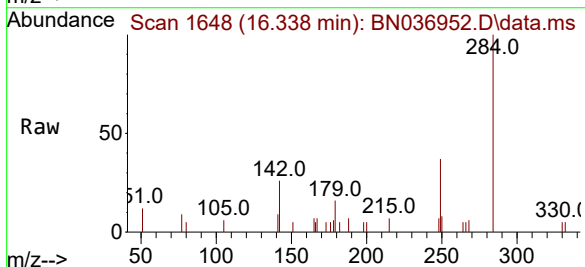
Instrument :
BNA_N
ClientSampleId :
PB167760BS

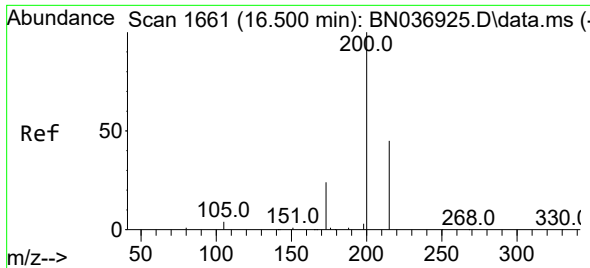
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.2	83.7	125.5
141	52.8	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.348 ng
RT: 16.338 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion	Ratio	Lower	Upper
284	100		
142	52.0	40.0	60.0
249	38.1	28.2	42.2

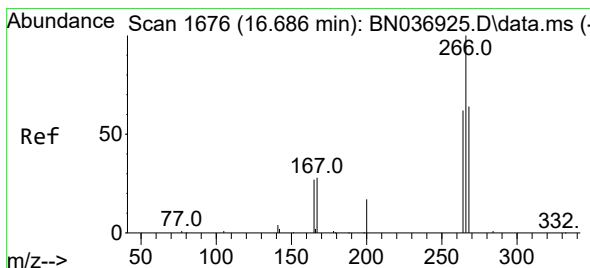
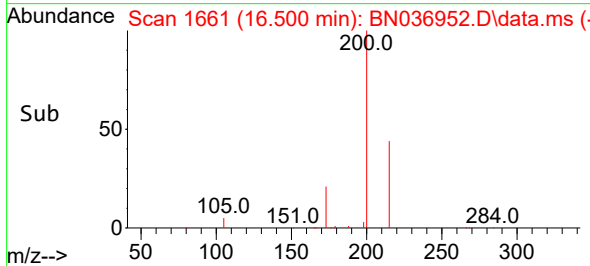
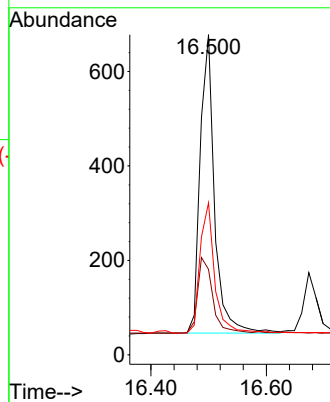
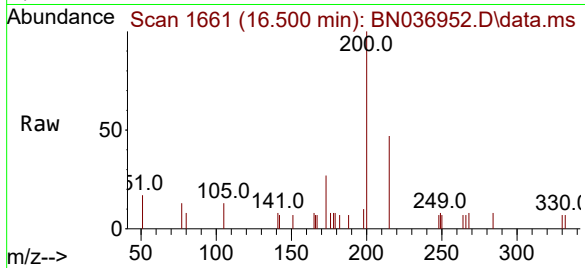




#23
Atrazine
Concen: 0.374 ng
RT: 16.500 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

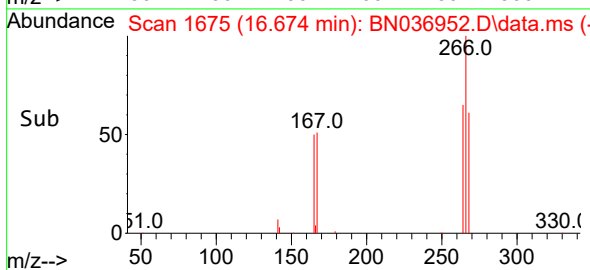
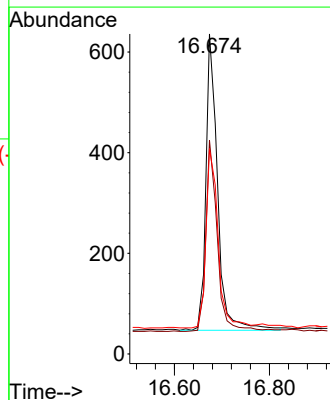
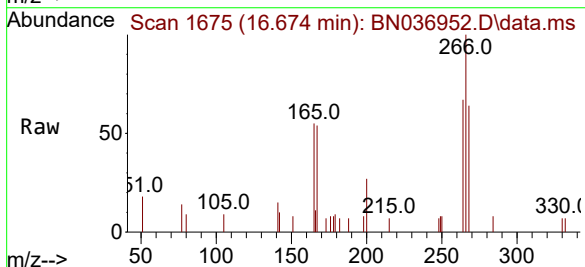
Instrument :
BNA_N
ClientSampleId :
PB167760BS

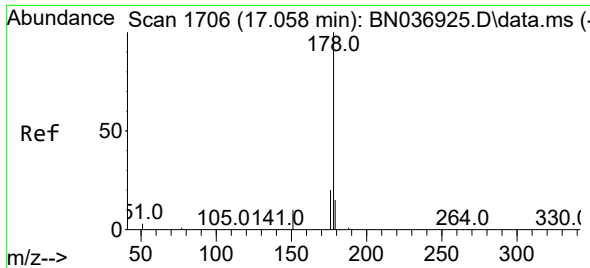
Tgt Ion	Ratio	Lower	Upper
200	100		
173	26.7	22.4	33.6
215	47.5	38.6	57.8



#24
Pentachlorophenol
Concen: 0.474 ng
RT: 16.674 min Scan# 1675
Delta R.T. -0.012 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.2	49.9	74.9
268	63.3	52.2	78.4

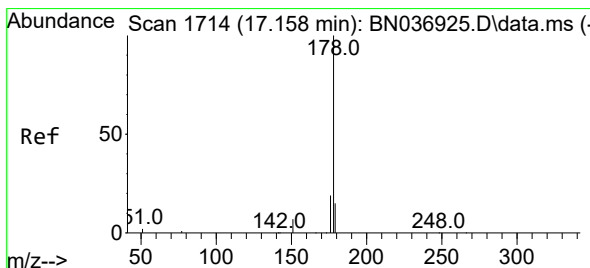
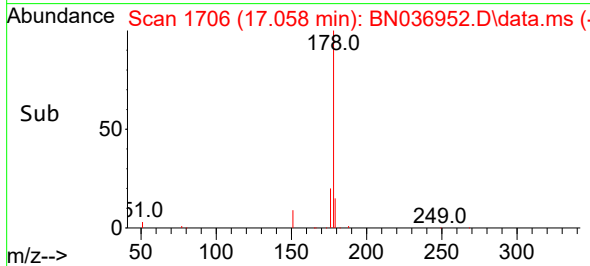
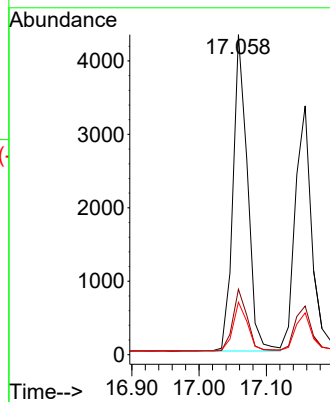
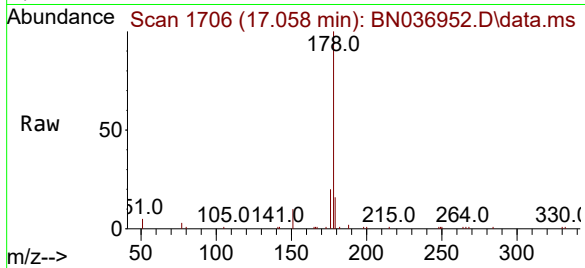




#25
Phenanthrene
Concen: 0.358 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

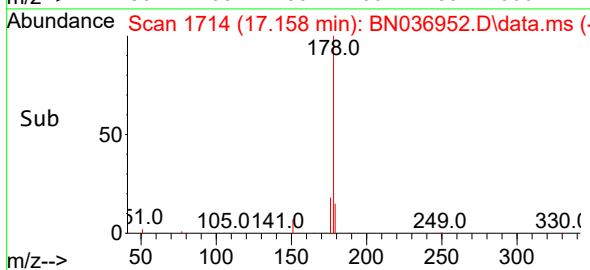
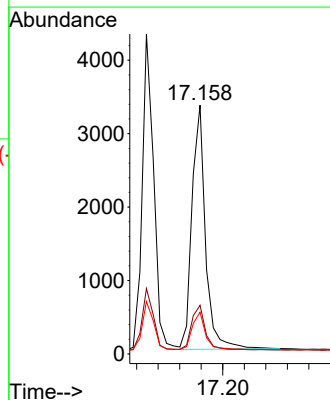
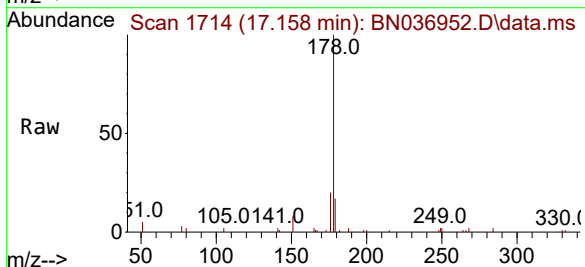
Instrument :
BNA_N
ClientSampleId :
PB167760BS

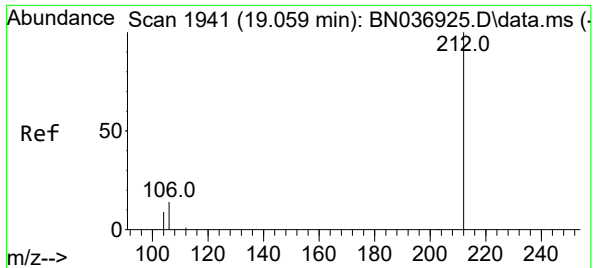
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.4	12.4	18.6



#26
Anthracene
Concen: 0.359 ng
RT: 17.158 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.3	22.9
179	15.0	12.1	18.1

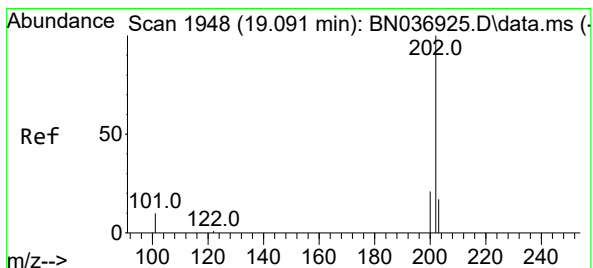
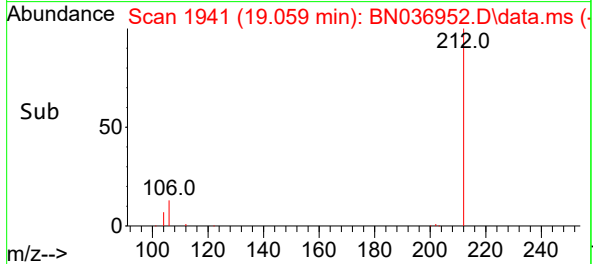
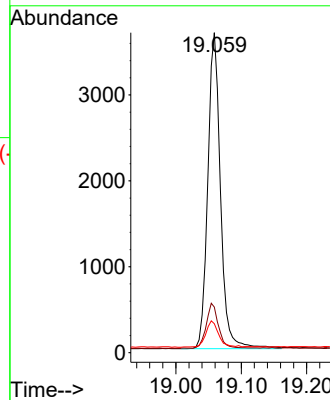
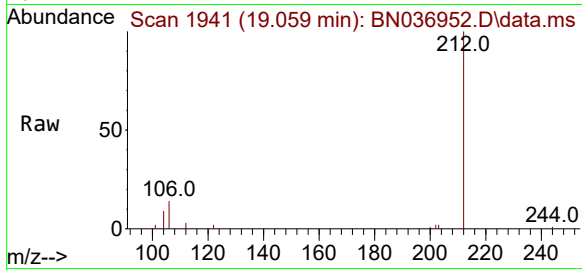




#27
Fluoranthene-d10
Concen: 0.353 ng
RT: 19.059 min Scan# 1941
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

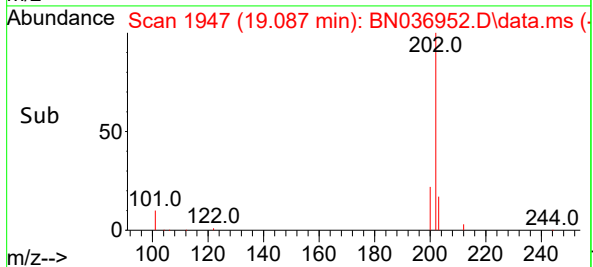
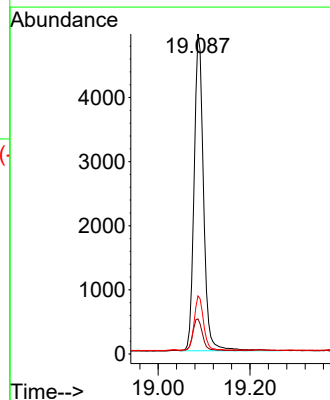
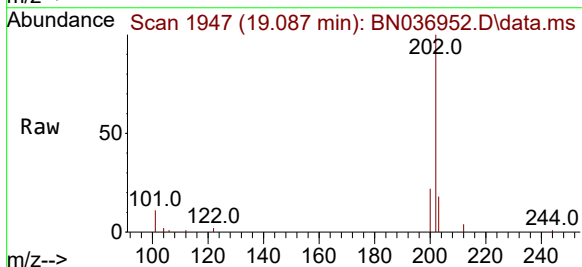
Instrument :
BNA_N
ClientSampleId :
PB167760BS

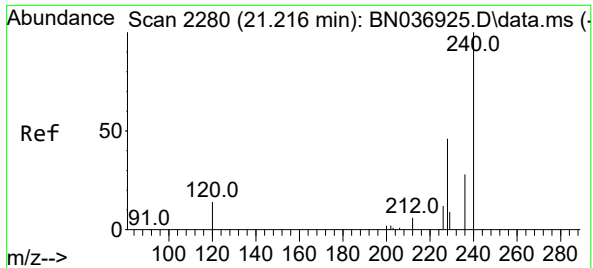
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.6	17.4
104	8.4	7.0	10.4



#28
Fluoranthene
Concen: 0.349 ng
RT: 19.087 min Scan# 1947
Delta R.T. -0.005 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.5	8.5	12.7
203	17.0	13.7	20.5

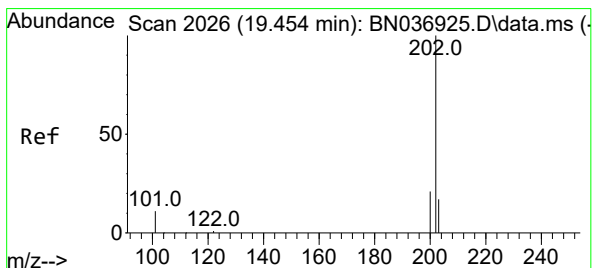
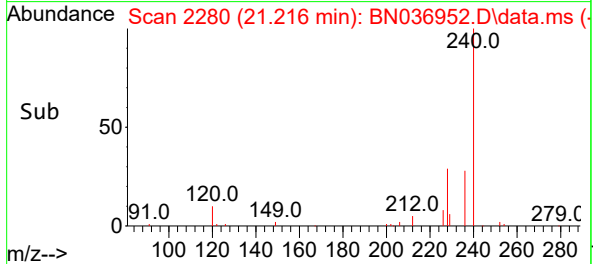
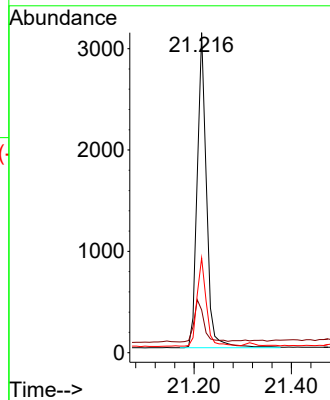
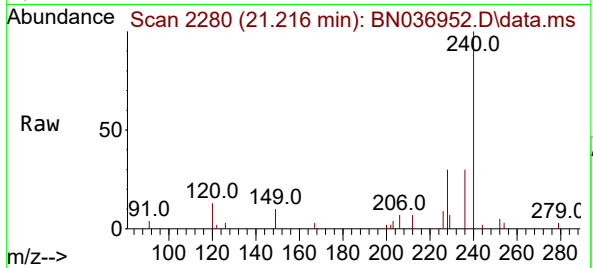




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.216 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

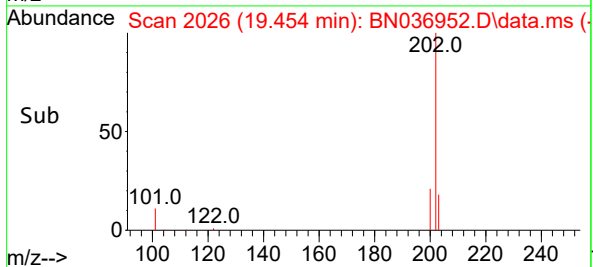
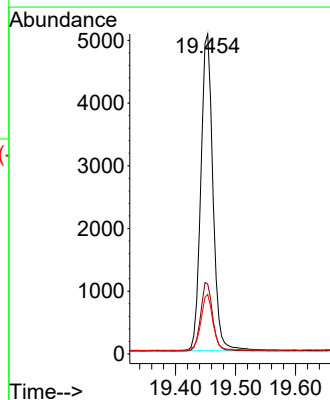
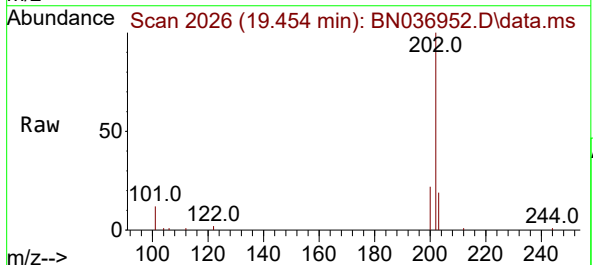
Instrument :
BNA_N
ClientSampleId :
PB167760BS

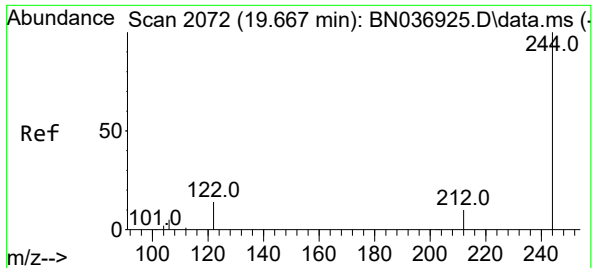
Tgt Ion:240 Resp: 4126
Ion Ratio Lower Upper
240 100
120 13.4 14.1 21.1#
236 29.6 23.8 35.8



#30
Pyrene
Concen: 0.357 ng
RT: 19.454 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion:202 Resp: 7102
Ion Ratio Lower Upper
202 100
200 21.5 17.0 25.6
203 17.9 14.0 21.0

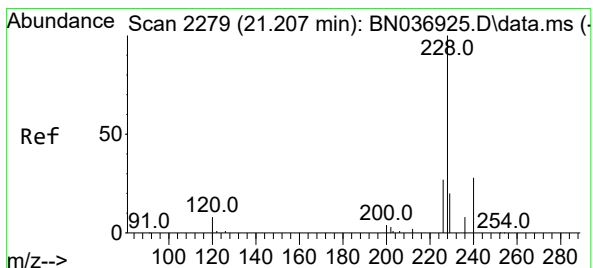
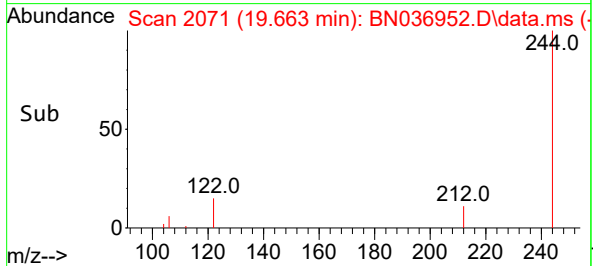
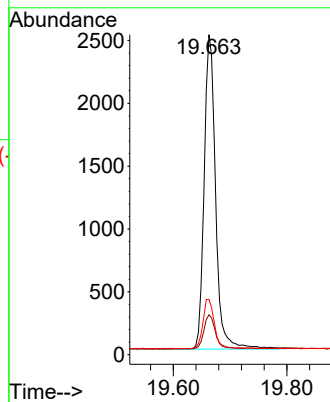
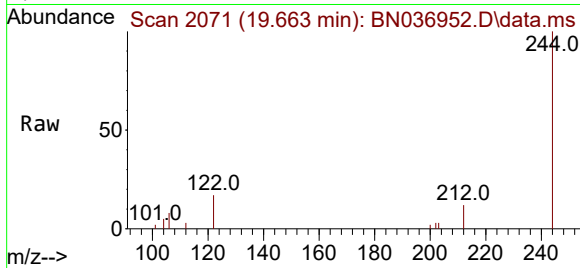




#31
Terphenyl-d14
Concen: 0.359 ng
RT: 19.663 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

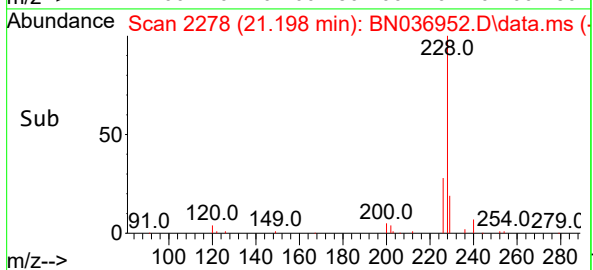
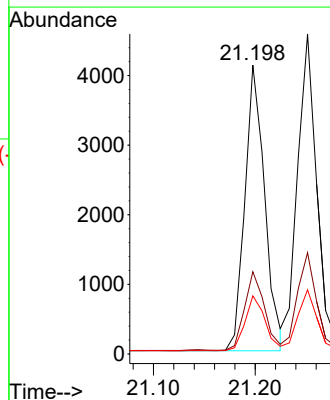
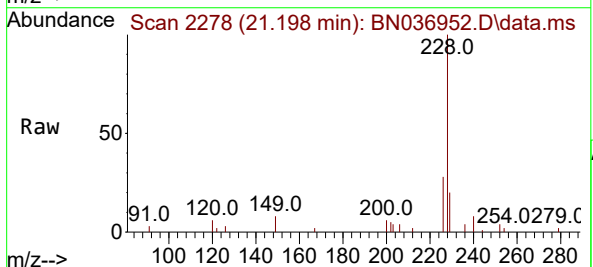
Instrument :
BNA_N
ClientSampleId :
PB167760BS

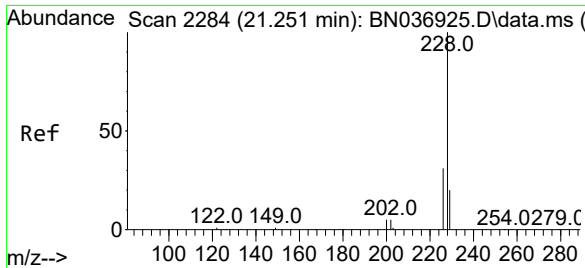
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.5	9.6	14.4
122	17.2	12.7	19.1



#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.2	33.4
229	20.1	16.4	24.6

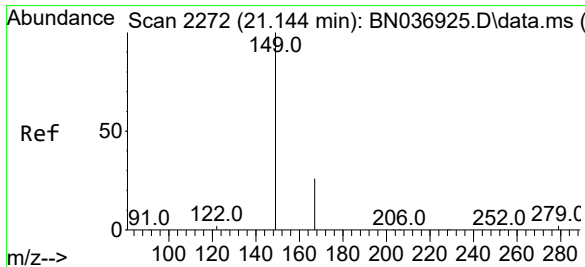
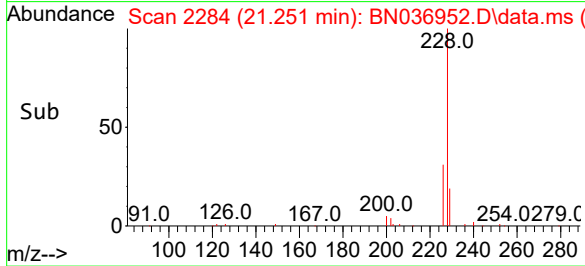
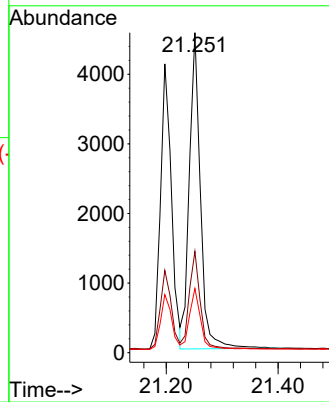
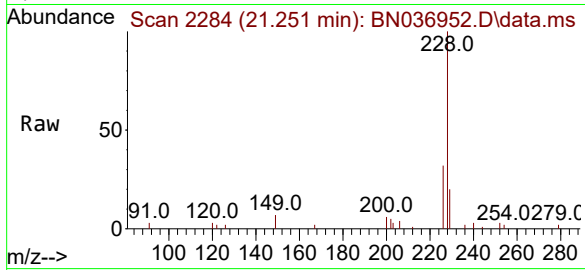




#33
Chrysene
Concen: 0.381 ng
RT: 21.251 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

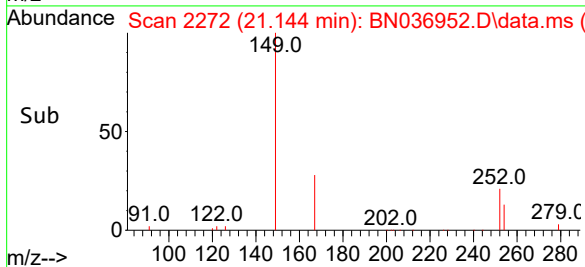
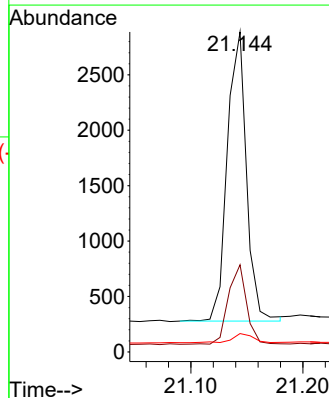
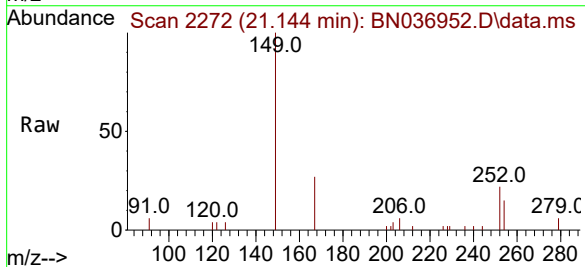
Instrument :
BNA_N
ClientSampleId :
PB167760BS

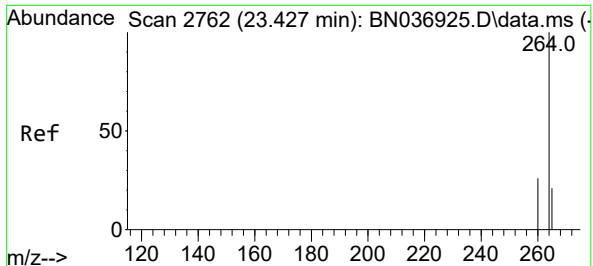
Tgt Ion:	228	Resp:	6250
Ion Ratio	Lower	Upper	
228	100		
226	31.6	25.5	38.3
229	20.0	16.5	24.7



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.359 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

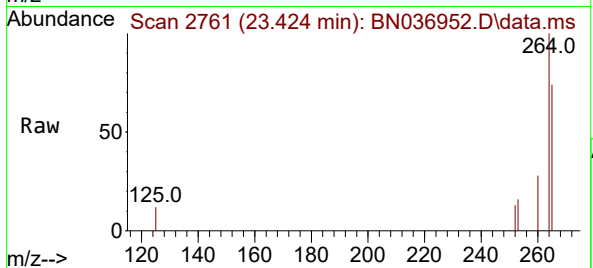
Tgt Ion:	149	Resp:	3105
Ion Ratio	Lower	Upper	
149	100		
167	26.3	21.0	31.6
279	3.3	2.7	4.1



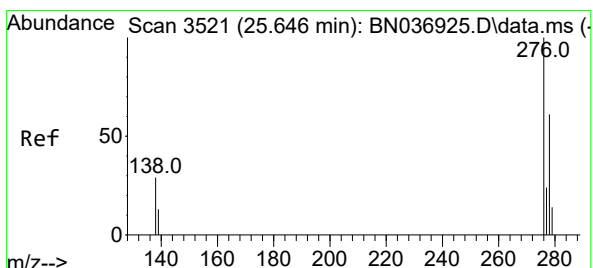
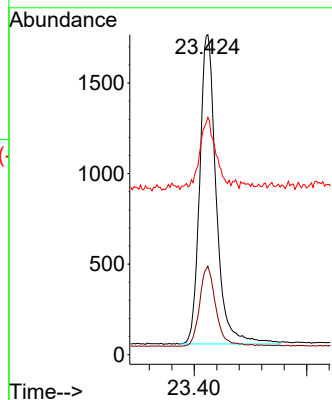
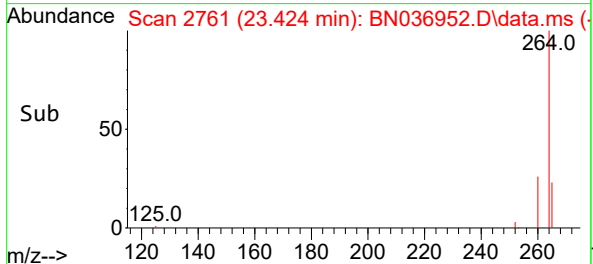


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.424 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

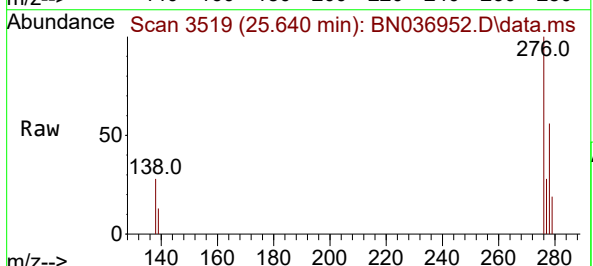
Instrument :
BNA_N
ClientSampleId :
PB167760BS



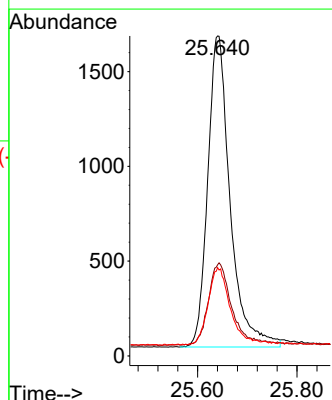
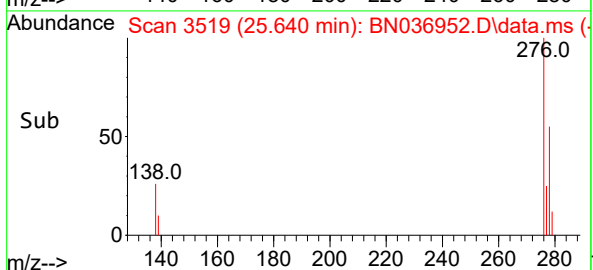
Tgt Ion:264 Resp: 3488
Ion Ratio Lower Upper
264 100
260 27.7 22.2 33.2
265 74.1 65.8 98.6

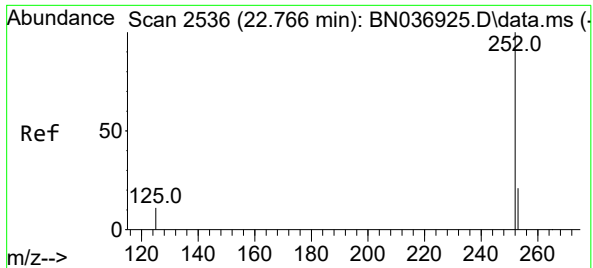


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.361 ng
RT: 25.640 min Scan# 3519
Delta R.T. -0.006 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17



Tgt Ion:276 Resp: 5142
Ion Ratio Lower Upper
276 100
138 27.1 23.0 34.6
277 24.3 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.352 ng

RT: 22.763 min Scan# 2535

Delta R.T. -0.003 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

Instrument :

BNA_N

ClientSampleId :

PB167760BS

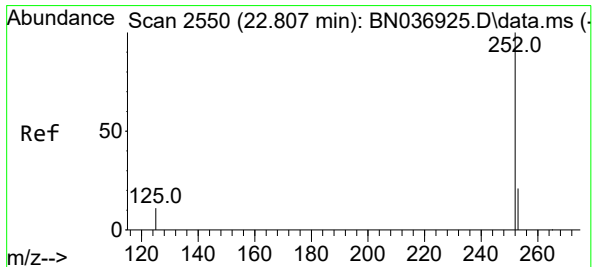
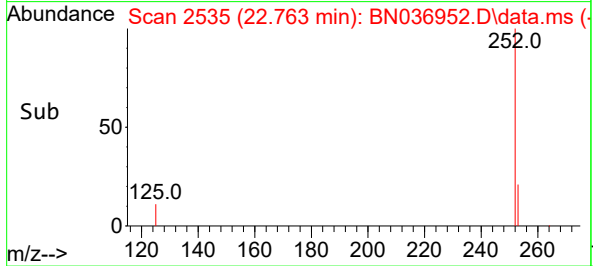
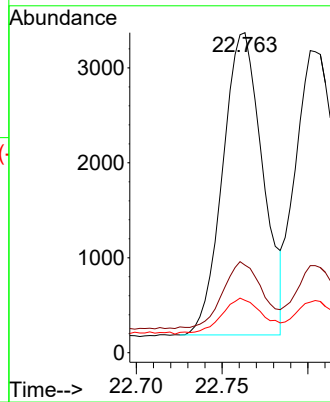
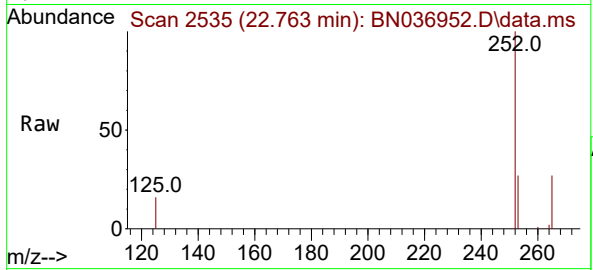
Tgt Ion:252 Resp: 5169

Ion Ratio Lower Upper

252 100

253 27.4 22.1 33.1

125 16.4 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.358 ng

RT: 22.801 min Scan# 2548

Delta R.T. -0.006 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

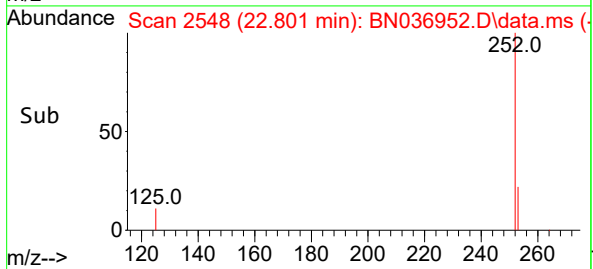
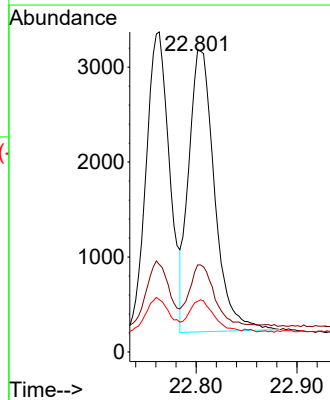
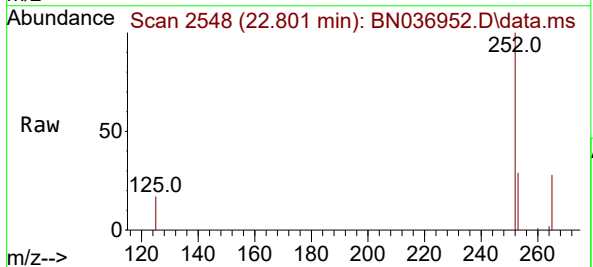
Tgt Ion:252 Resp: 5282

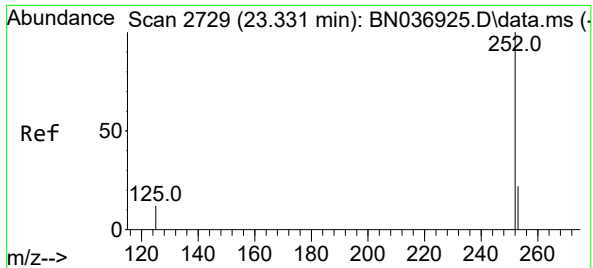
Ion Ratio Lower Upper

252 100

253 28.8 22.8 34.2

125 16.7 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.373 ng

RT: 23.328 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

Instrument :

BNA_N

ClientSampleId :

PB167760BS

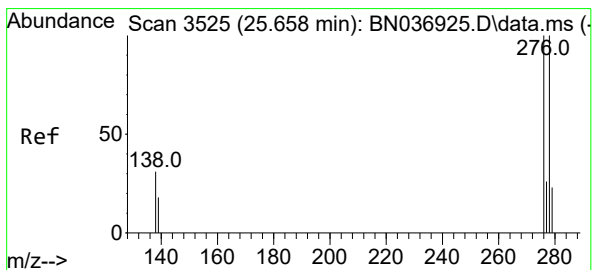
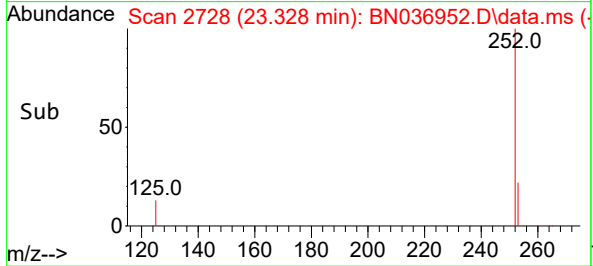
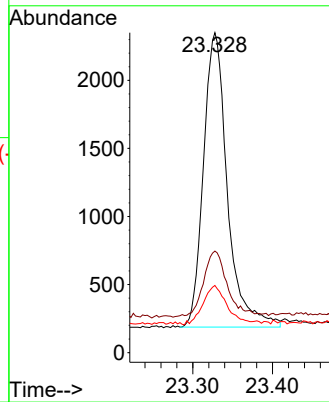
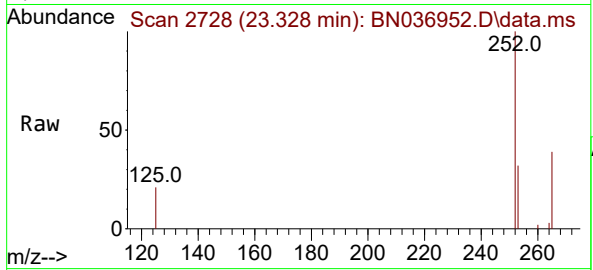
Tgt Ion:252 Resp: 4501

Ion Ratio Lower Upper

252 100

253 31.7 25.9 38.9

125 21.0 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.353 ng

RT: 25.652 min Scan# 3523

Delta R.T. -0.006 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

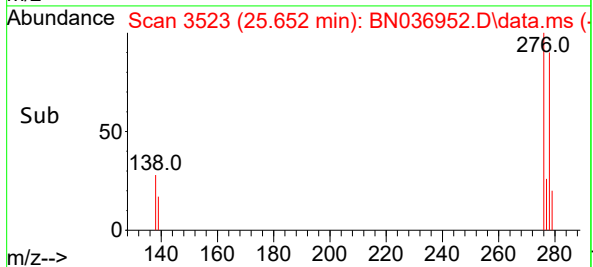
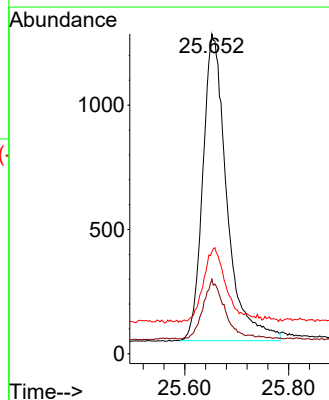
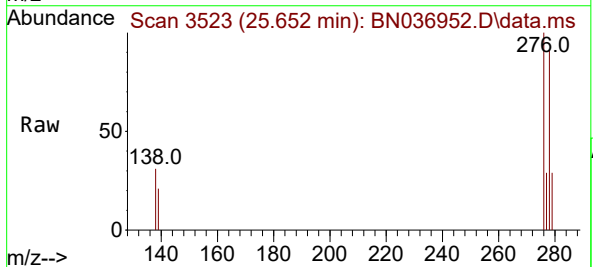
Tgt Ion:278 Resp: 3958

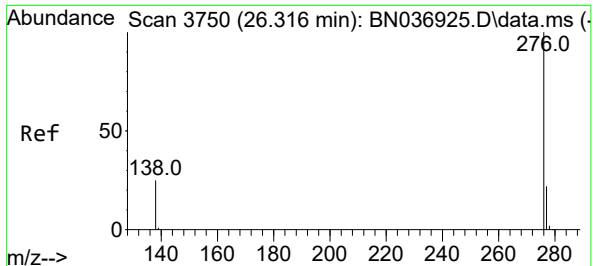
Ion Ratio Lower Upper

278 100

139 23.3 17.4 26.2

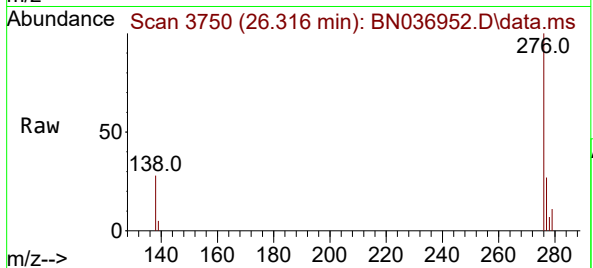
279 31.9 24.9 37.3



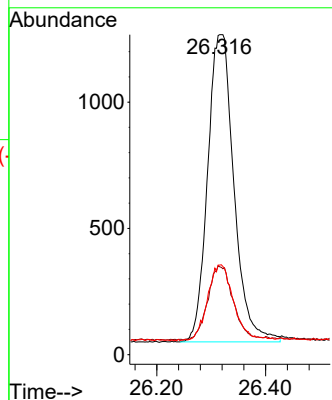
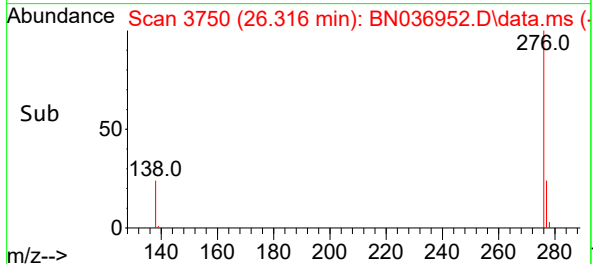


#41
Benzo(g,h,i)perylene
Concen: 0.328 ng
RT: 26.316 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Instrument :
BNA_N
ClientSampleId :
PB167760BS



Tgt Ion:	276	Resp:	4079
Ion Ratio	Lower	Upper	
276	100		
277	27.5	20.2	30.2
138	28.0	21.9	32.9



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage - RW5B CTO WE13 112G08005	Date Received:	
Client Sample ID:	PB167760BSD	SDG No.:	Q1886
Lab Sample ID:	PB167760BSD	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
BN036953.D	1	04/28/25 08:50	04/30/25 18:53	PB167760

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.27		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		89%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2110	7.625				
1146-65-2	Naphthalene-d8	5170	10.404				
15067-26-2	Acenaphthene-d10	2720	14.277				
1517-22-2	Phenanthrene-d10	5370	17.021				
1719-03-5	Chrysene-d12	3880	21.215				
1520-96-3	Perylene-d12	3190	23.424				

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\BN043025\
 Data File : BN036953.D
 Acq On : 30 Apr 2025 18:53
 Operator : RC/JU
 Sample : PB167760BSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167760BSD

Quant Time: May 01 01:13:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

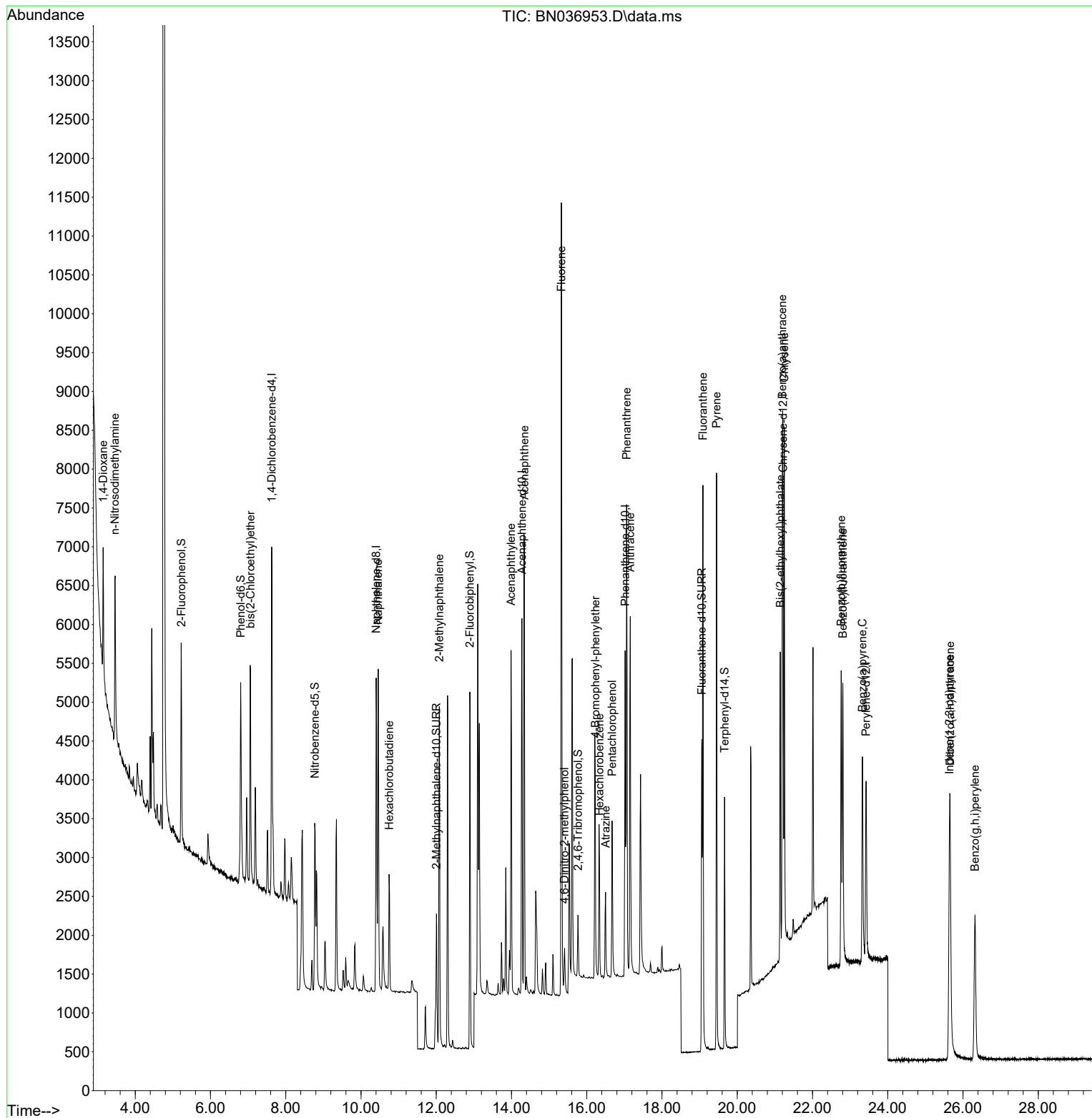
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.625	152	2106	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	5174	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	2716	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5366	0.400	ng	0.00
29) Chrysene-d12	21.215	240	3877	0.400	ng	# 0.00
35) Perylene-d12	23.424	264	3193	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	1814	0.337	ng	0.00
5) Phenol-d6	6.802	99	2101	0.317	ng	0.00
8) Nitrobenzene-d5	8.771	82	1831	0.338	ng	-0.01
11) 2-Methylnaphthalene-d10	12.006	152	2580m	0.357	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	410	0.339	ng	0.00
15) 2-Fluorobiphenyl	12.894	172	4059	0.309	ng	0.00
27) Fluoranthene-d10	19.059	212	4698	0.338	ng	0.00
31) Terphenyl-d14	19.663	244	3275	0.358	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.148	88	716	0.273	ng	# 37
3) n-Nitrosodimethylamine	3.458	42	1976	0.388	ng	91
6) bis(2-Chloroethyl)ether	7.062	93	2121	0.345	ng	99
9) Naphthalene	10.458	128	5175	0.344	ng	99
10) Hexachlorobutadiene	10.746	225	1181	0.362	ng	# 99
12) 2-Methylnaphthalene	12.082	142	3231	0.332	ng	99
16) Acenaphthylene	13.989	152	4751	0.358	ng	99
17) Acenaphthene	14.341	154	3015	0.346	ng	100
18) Fluorene	15.325	166	3898	0.342	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	468	0.329	ng	# 76
21) 4-Bromophenyl-phenylether	16.227	248	1212	0.338	ng	99
22) Hexachlorobenzene	16.338	284	1353	0.345	ng	96
23) Atrazine	16.500	200	1038	0.359	ng	99
24) Pentachlorophenol	16.673	266	985	0.468	ng	99
25) Phenanthrene	17.058	178	6172	0.348	ng	100
26) Anthracene	17.158	178	5592	0.349	ng	99
28) Fluoranthene	19.087	202	6658	0.335	ng	99
30) Pyrene	19.449	202	6741	0.361	ng	100
32) Benzo(a)anthracene	21.198	228	5104	0.357	ng	99
33) Chrysene	21.251	228	5714	0.371	ng	100
34) Bis(2-ethylhexyl)phtha...	21.144	149	2825	0.348	ng	99
36) Indeno(1,2,3-cd)pyrene	25.640	276	4773	0.366	ng	98
37) Benzo(b)fluoranthene	22.760	252	4625	0.344	ng	98
38) Benzo(k)fluoranthene	22.804	252	4890	0.362	ng	99
39) Benzo(a)pyrene	23.328	252	4098	0.371	ng	99
40) Dibenzo(a,h)anthracene	25.658	278	3659	0.357	ng	97
41) Benzo(g,h,i)perylene	26.318	276	3771	0.331	ng	98

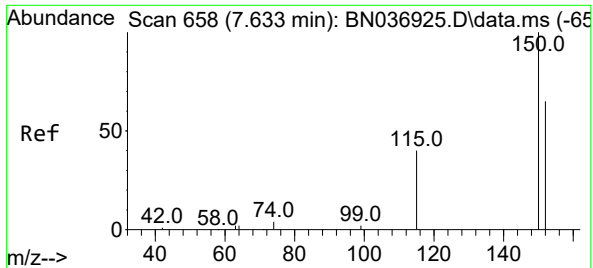
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036953.D
Acq On : 30 Apr 2025 18:53
Operator : RC/JU
Sample : PB167760BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167760BSD

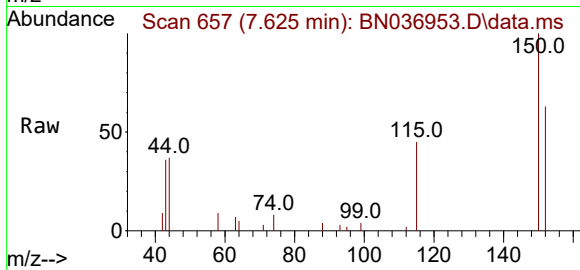
Quant Time: May 01 01:13:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



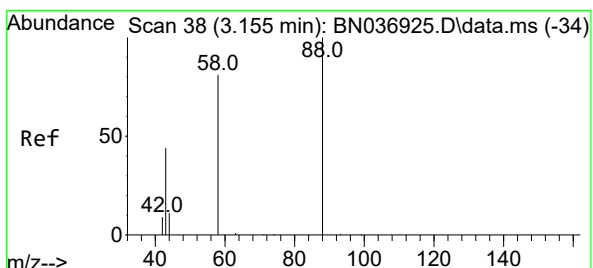
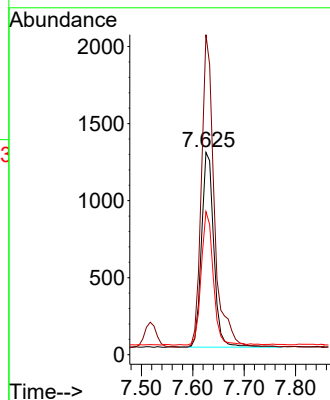
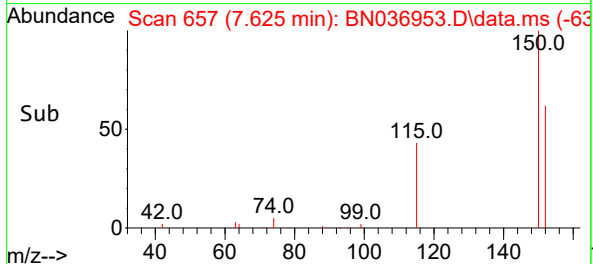


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.625 min Scan# 61
 Delta R.T. -0.008 min
 Lab File: BN036953.D
 Acq: 30 Apr 2025 18:53

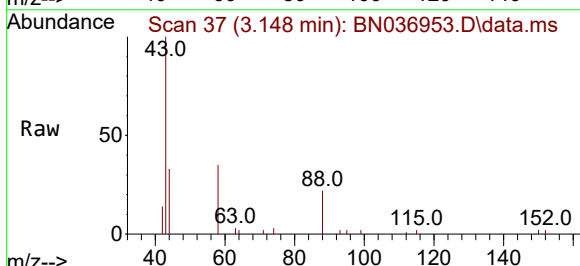
Instrument :
 BNA_N
 ClientSampleId :
 PB167760BSD



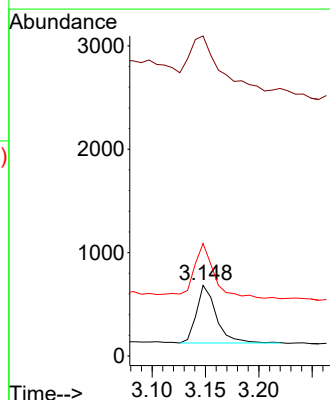
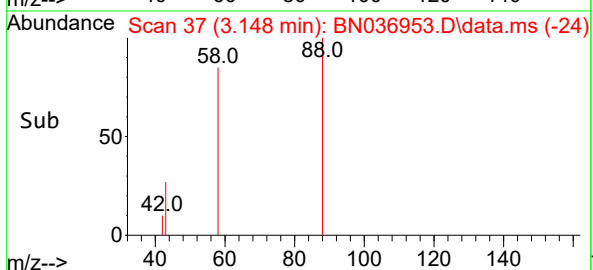
Tgt Ion:152 Resp: 2106
 Ion Ratio Lower Upper
 152 100
 150 158.2 121.1 181.7
 115 70.8 51.8 77.6



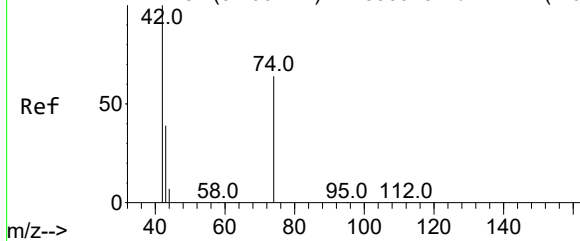
#2
 1,4-Dioxane
 Concen: 0.273 ng
 RT: 3.148 min Scan# 37
 Delta R.T. -0.007 min
 Lab File: BN036953.D
 Acq: 30 Apr 2025 18:53



Tgt Ion: 88 Resp: 716
 Ion Ratio Lower Upper
 88 100
 43 136.0 37.9 56.9#
 58 103.4 65.8 98.6#



Abundance Scan 81 (3.466 min): BN036925.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.388 ng

RT: 3.458 min Scan# 80

Delta R.T. -0.007 min

Lab File: BN036953.D

Acq: 30 Apr 2025 18:53

Instrument :

BNA_N

ClientSampleId :

PB167760BSD

Tgt Ion: 42 Resp: 1976

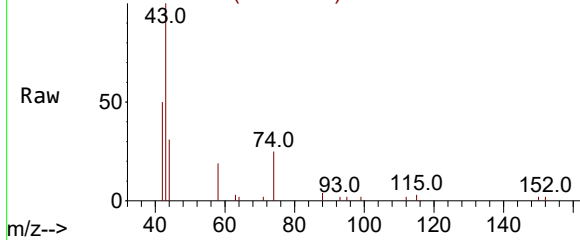
Ion Ratio Lower Upper

42 100

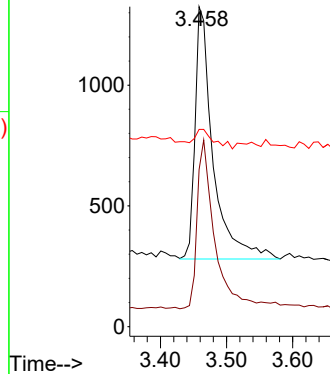
74 66.6 59.9 89.9

44 7.9 7.5 11.3

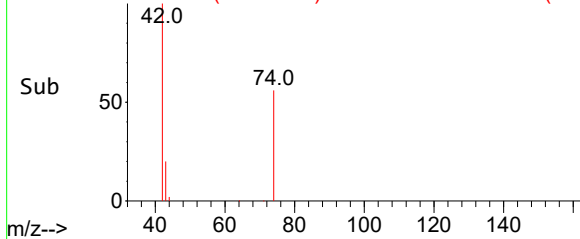
Abundance Scan 80 (3.458 min): BN036953.D\data.ms



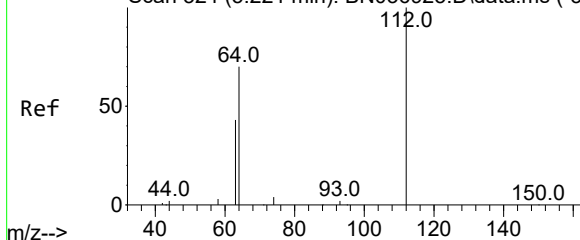
Abundance



Abundance Scan 80 (3.458 min): BN036953.D\data.ms (-60)



Abundance Scan 324 (5.221 min): BN036925.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.337 ng

RT: 5.228 min Scan# 325

Delta R.T. 0.007 min

Lab File: BN036953.D

Acq: 30 Apr 2025 18:53

Tgt Ion: 112 Resp: 1814

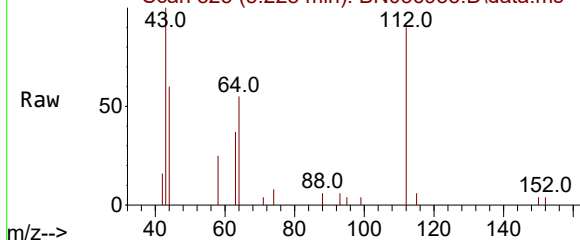
Ion Ratio Lower Upper

112 100

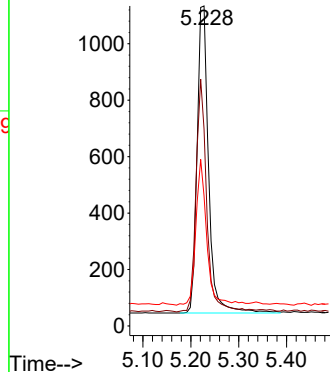
64 70.8 55.7 83.5

63 43.9 33.9 50.9

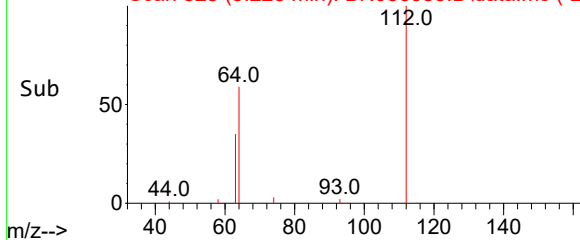
Abundance Scan 325 (5.228 min): BN036953.D\data.ms

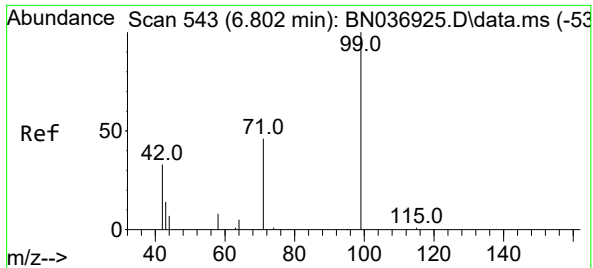


Abundance



Abundance Scan 325 (5.228 min): BN036953.D\data.ms (-29)

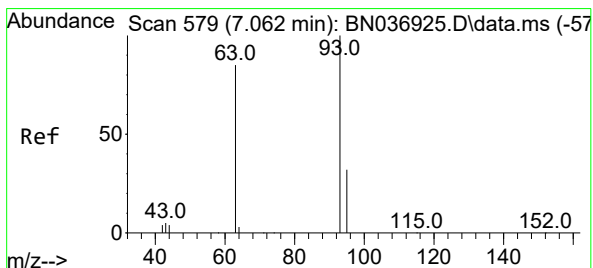
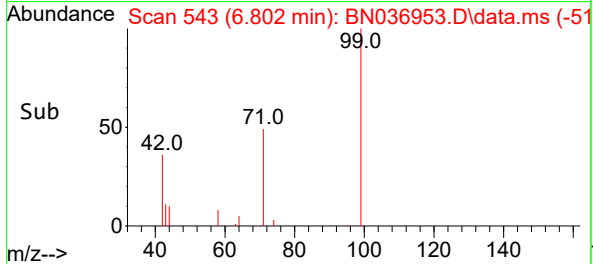
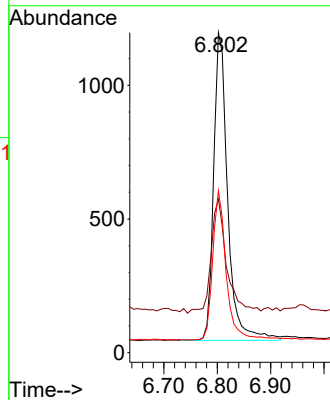
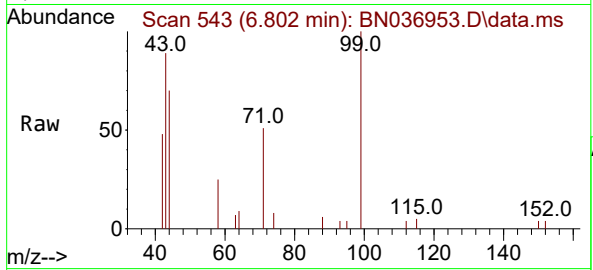




#5
Phenol-d6
Concen: 0.317 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

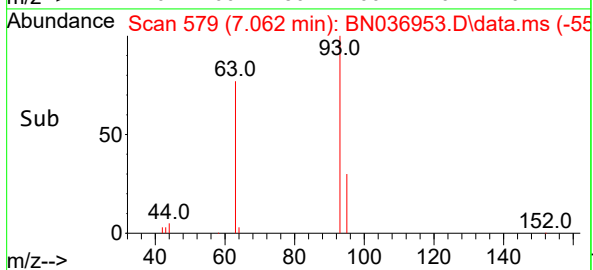
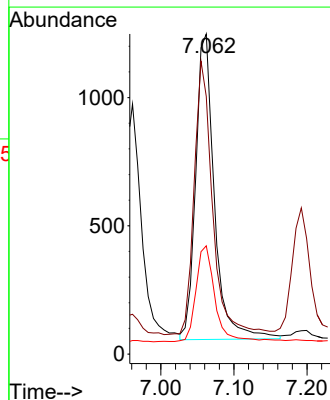
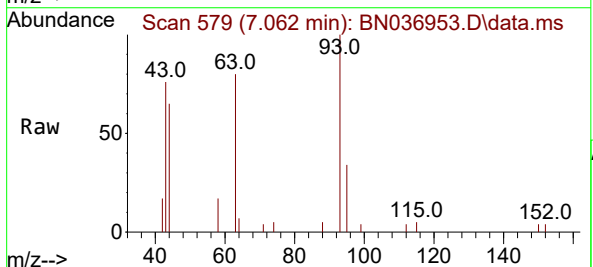
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

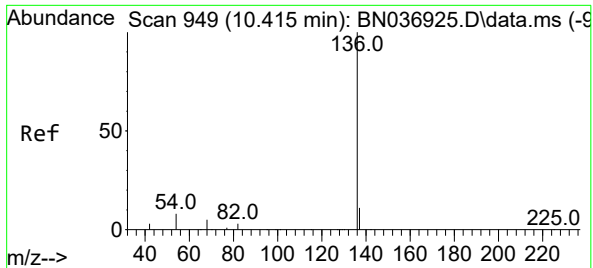
Tgt Ion	Ratio	Lower	Upper
99	100		
42	41.3	29.6	44.4
71	47.9	36.0	54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.345 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion	Ratio	Lower	Upper
93	100		
63	87.1	69.0	103.6
95	32.2	25.4	38.0

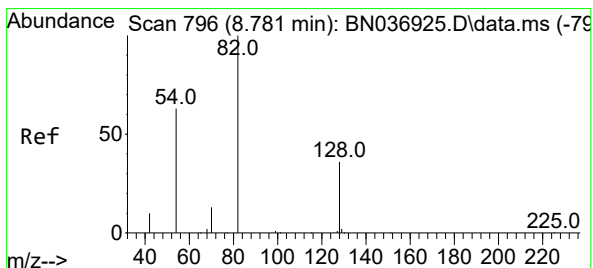
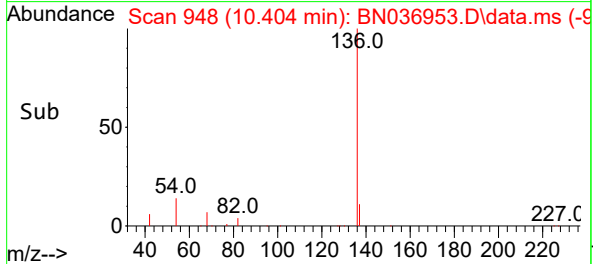
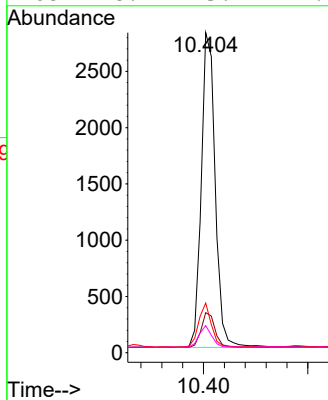
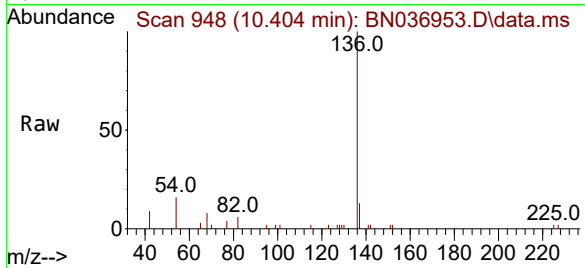




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

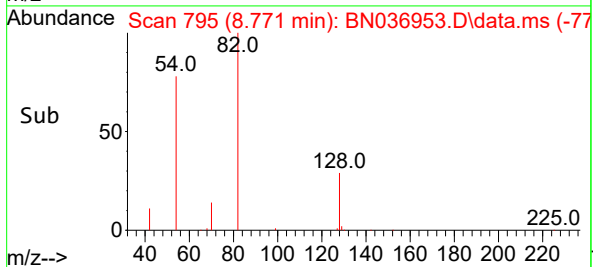
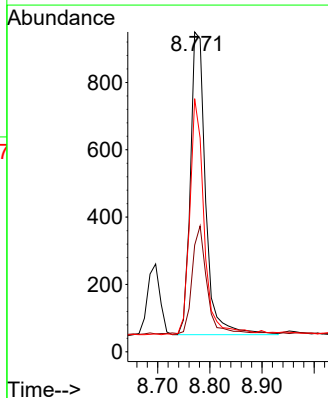
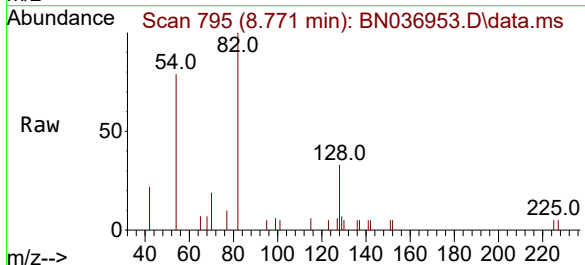
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

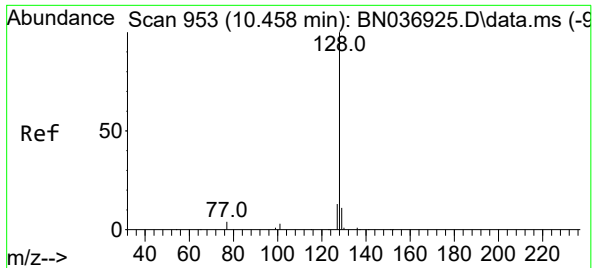
Tgt Ion:	136	Resp:	5174
Ion	Ratio	Lower	Upper
136	100		
137	12.5	9.7	14.5
54	15.5	8.0	12.0#
68	8.4	5.1	7.7#



#8
Nitrobenzene-d5
Concen: 0.338 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:	82	Resp:	1831
Ion	Ratio	Lower	Upper
82	100		
128	33.4	30.7	46.1
54	79.2	52.1	78.1#

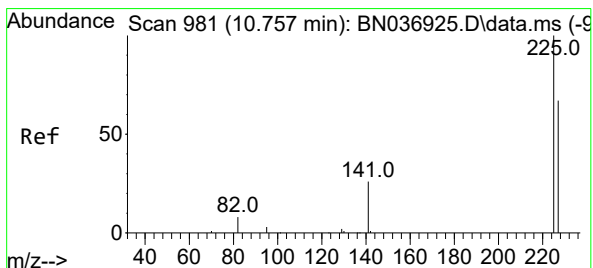
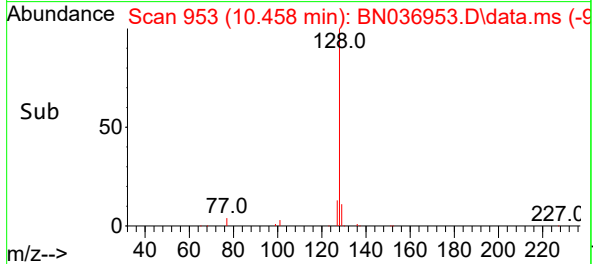
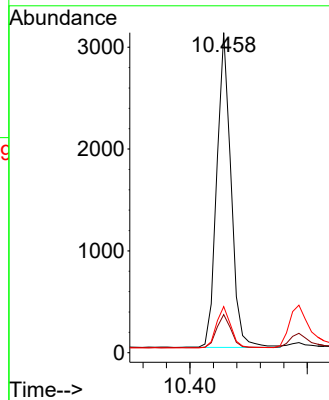
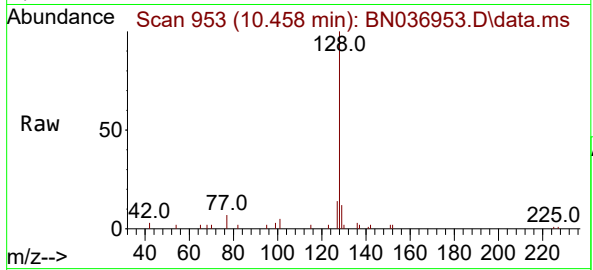




#9
Naphthalene
Concen: 0.344 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

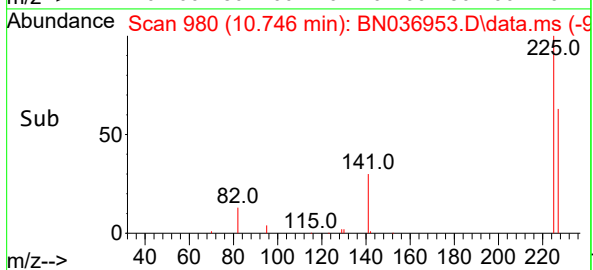
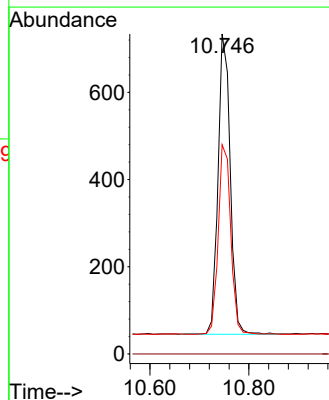
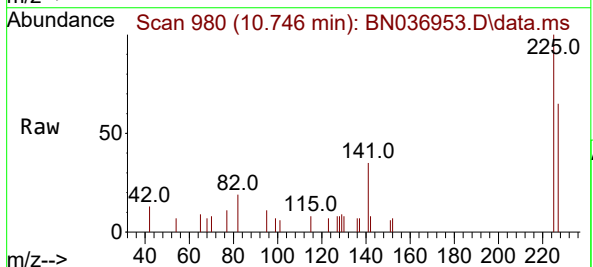
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

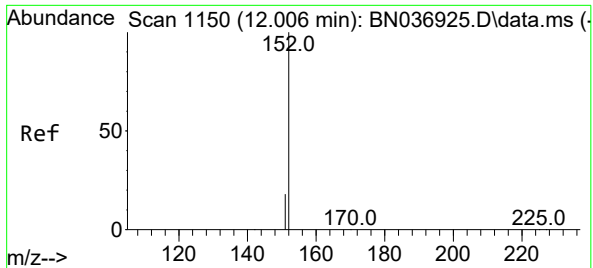
Tgt Ion:	128	Resp:	5175
Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.4	11.4	17.2



#10
Hexachlorobutadiene
Concen: 0.362 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.011 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:	225	Resp:	1181
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.8	52.2	78.4

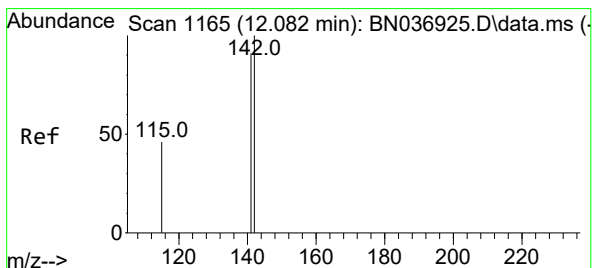
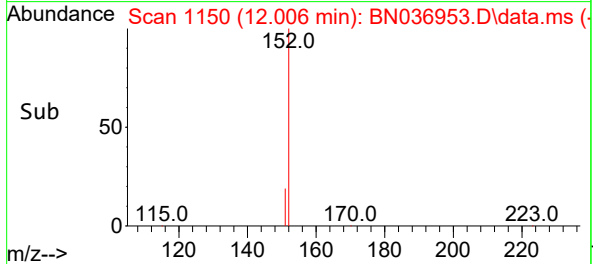
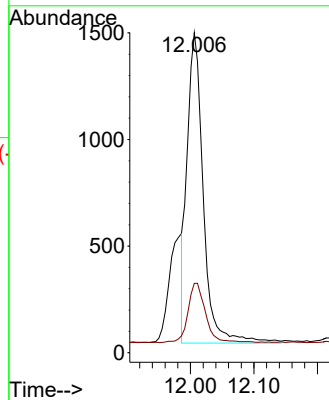
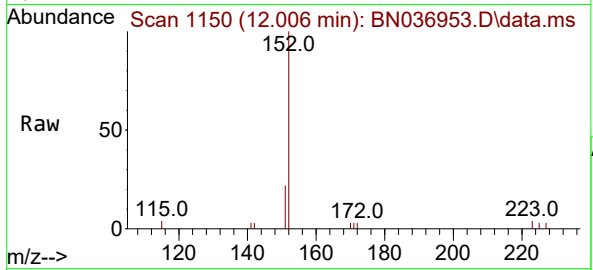




#11
2-Methylnaphthalene-d10
Concen: 0.357 ng m
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

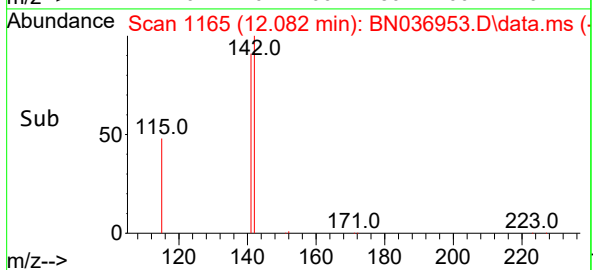
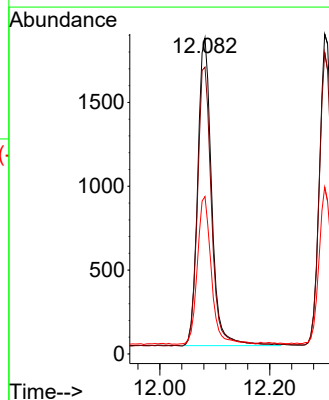
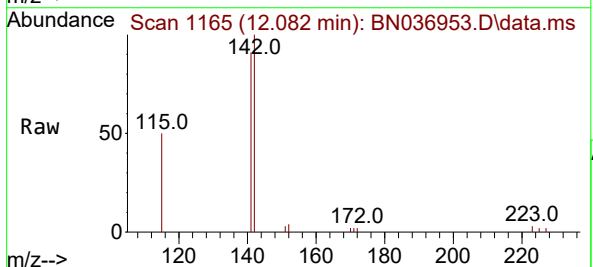
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

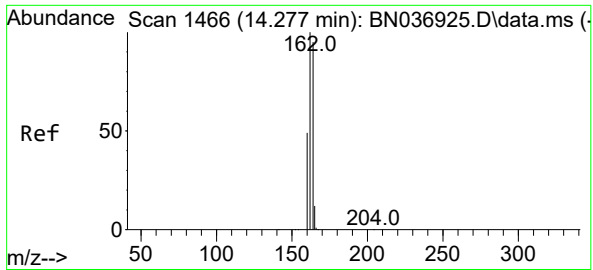
Tgt Ion:152 Resp: 2580
Ion Ratio Lower Upper
152 100
151 20.9 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.332 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:142 Resp: 3231
Ion Ratio Lower Upper
142 100
141 90.8 72.8 109.2
115 49.8 38.2 57.4

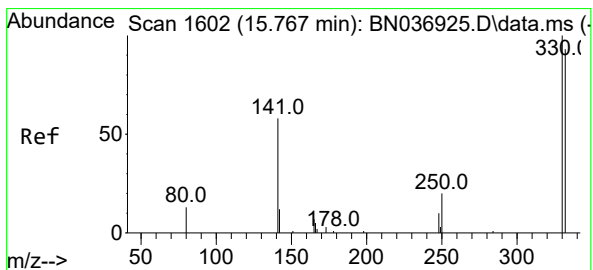
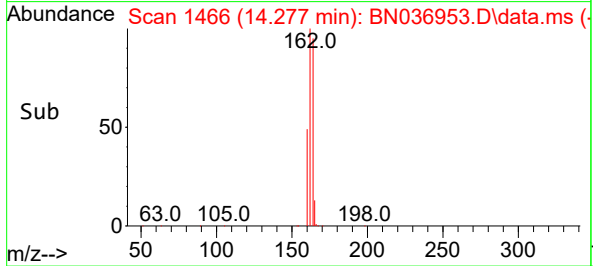
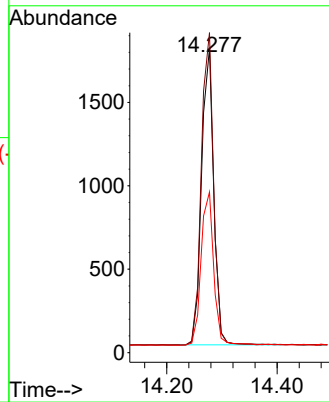
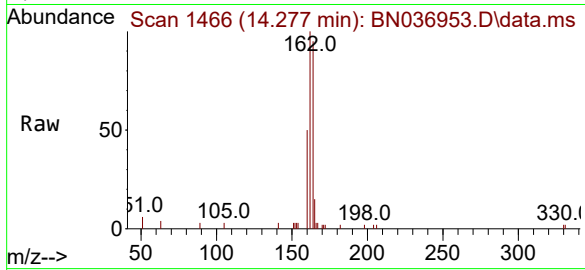




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

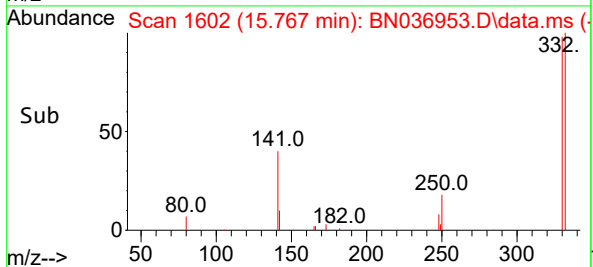
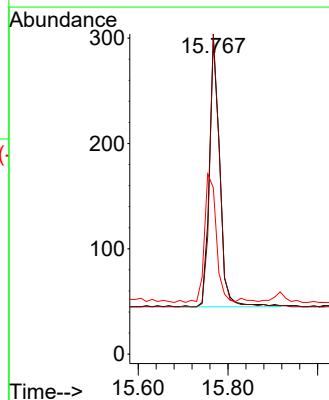
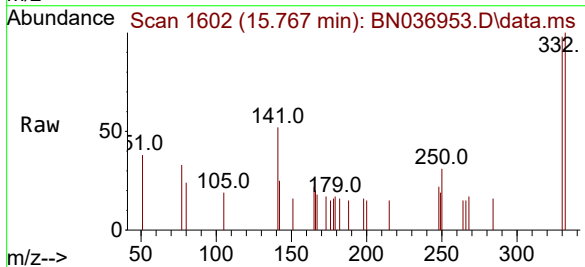
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

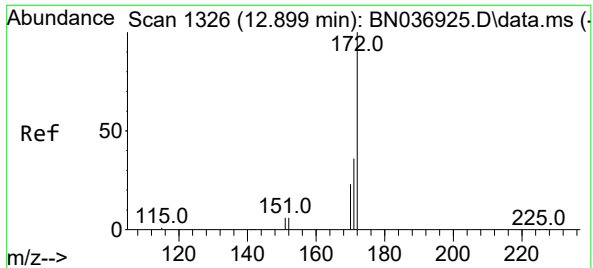
Tgt Ion:164 Resp: 2716
Ion Ratio Lower Upper
164 100
162 105.2 83.8 125.8
160 52.8 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.339 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:330 Resp: 410
Ion Ratio Lower Upper
330 100
332 97.1 76.3 114.5
141 53.9 45.4 68.2





#15

2-Fluorobiphenyl

Concen: 0.309 ng

RT: 12.894 min Scan# 1439

Delta R.T. -0.005 min

Lab File: BN036953.D

Acq: 30 Apr 2025 18:53

Instrument :

BNA_N

ClientSampleId :

PB167760BSD

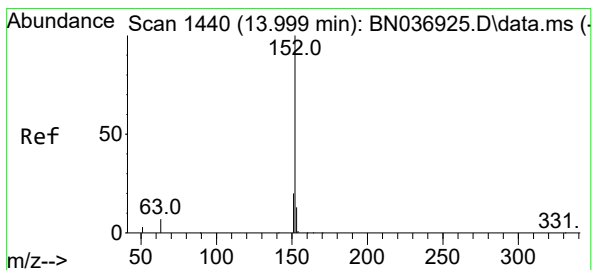
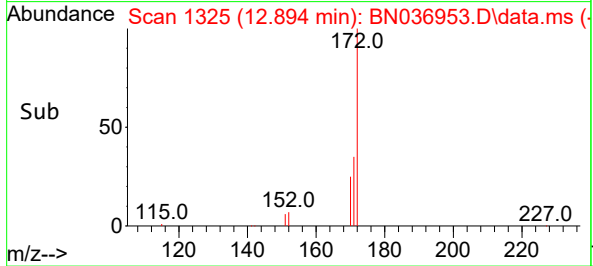
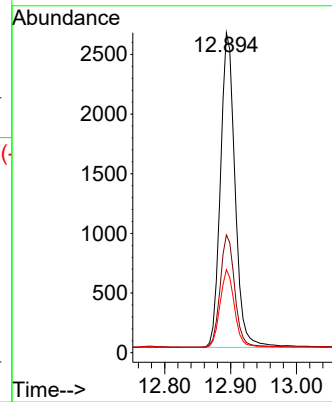
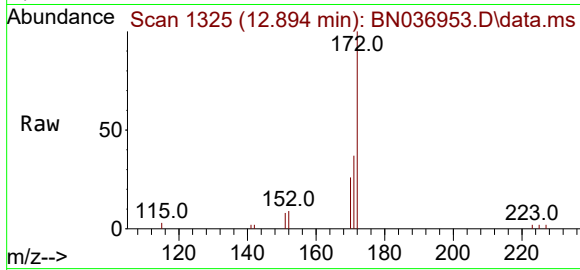
Tgt Ion:172 Resp: 4059

Ion Ratio Lower Upper

172 100

171 36.8 29.4 44.0

170 26.0 19.4 29.0



#16

Acenaphthylene

Concen: 0.358 ng

RT: 13.989 min Scan# 1439

Delta R.T. -0.011 min

Lab File: BN036953.D

Acq: 30 Apr 2025 18:53

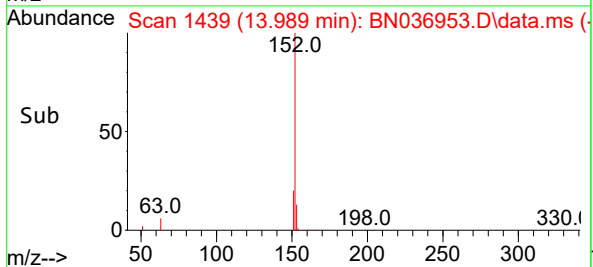
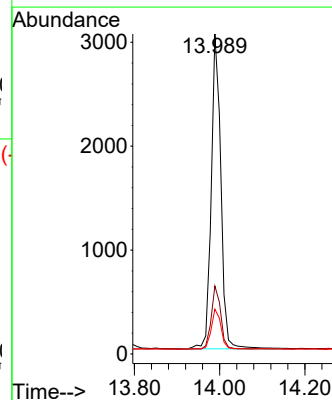
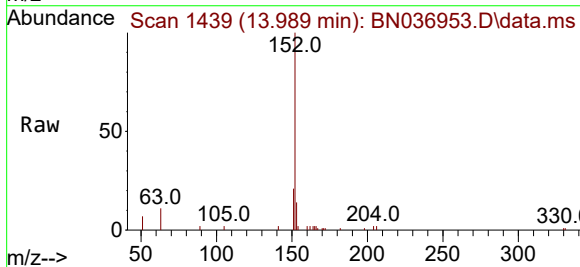
Tgt Ion:152 Resp: 4751

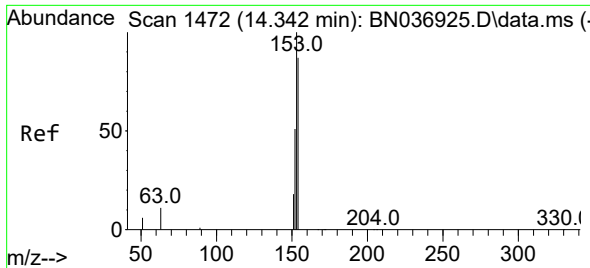
Ion Ratio Lower Upper

152 100

151 19.7 16.0 24.0

153 12.9 10.2 15.2

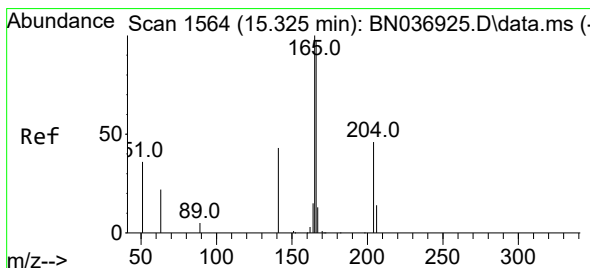
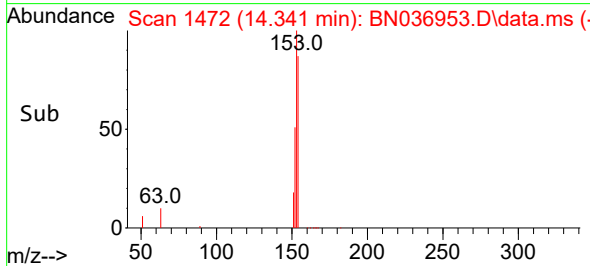
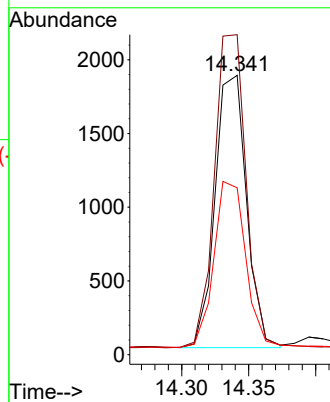
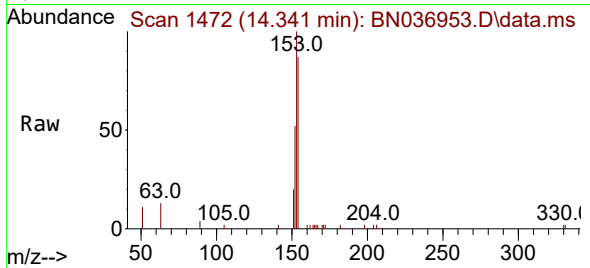




#17
Acenaphthene
Concen: 0.346 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

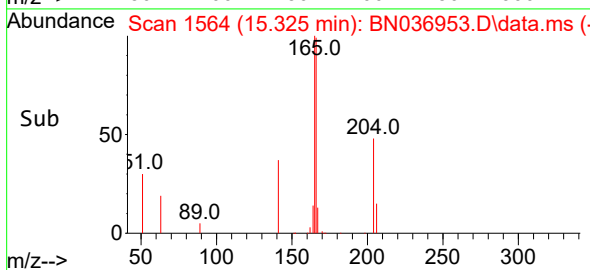
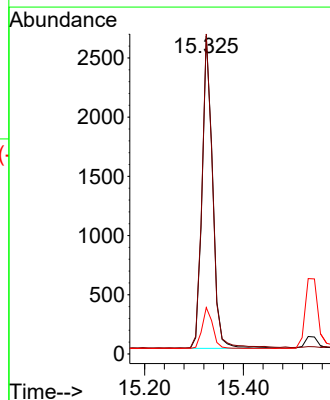
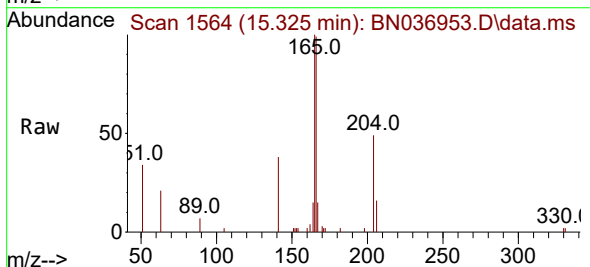
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

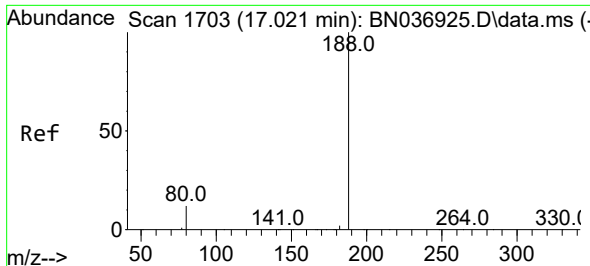
Tgt Ion:154 Resp: 3015
Ion Ratio Lower Upper
154 100
153 117.0 93.4 140.2
152 62.1 49.5 74.3



#18
Fluorene
Concen: 0.342 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:166 Resp: 3898
Ion Ratio Lower Upper
166 100
165 100.4 80.8 121.2
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036953.D

Acq: 30 Apr 2025 18:53

Instrument :

BNA_N

ClientSampleId :

PB167760BSD

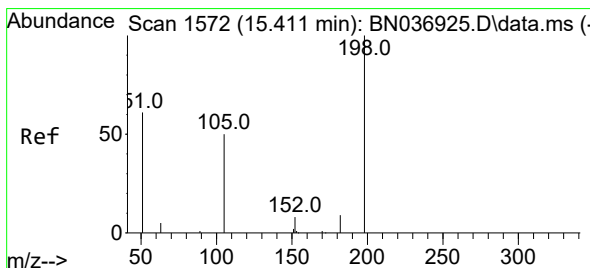
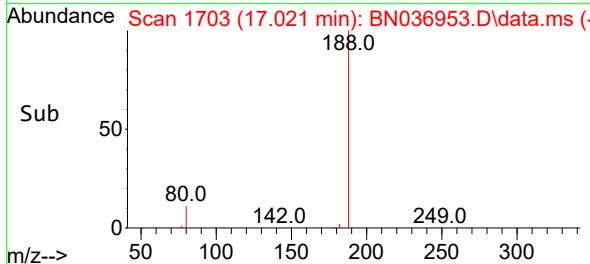
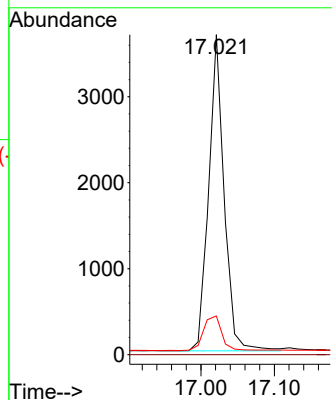
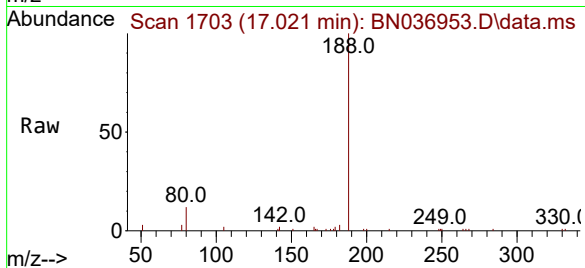
Tgt Ion:188 Resp: 5366

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.1 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.329 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036953.D

Acq: 30 Apr 2025 18:53

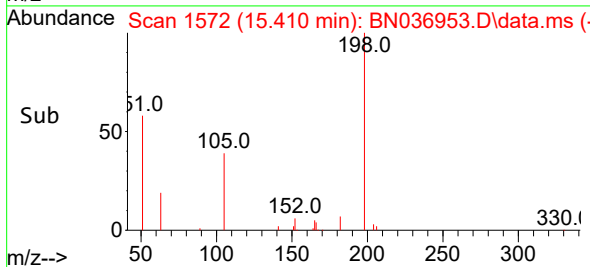
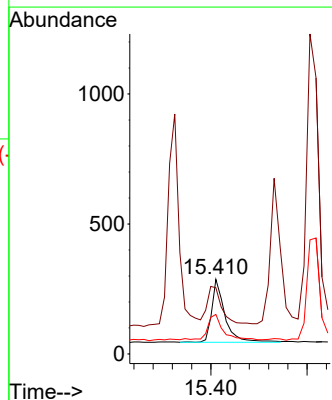
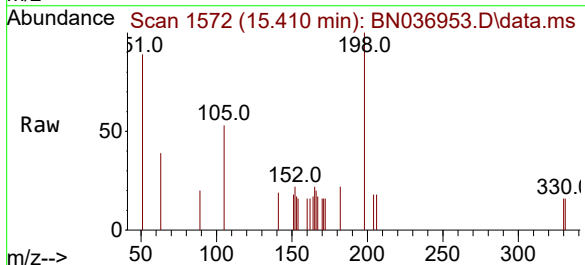
Tgt Ion:198 Resp: 468

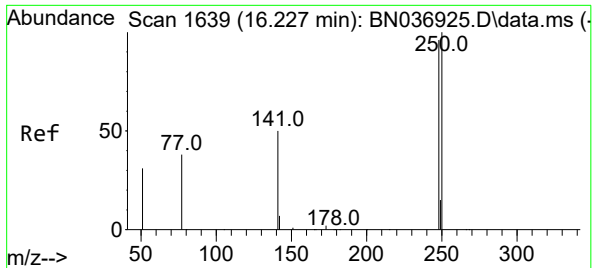
Ion Ratio Lower Upper

198 100

51 88.9 97.9 146.9#

105 53.0 50.0 75.0

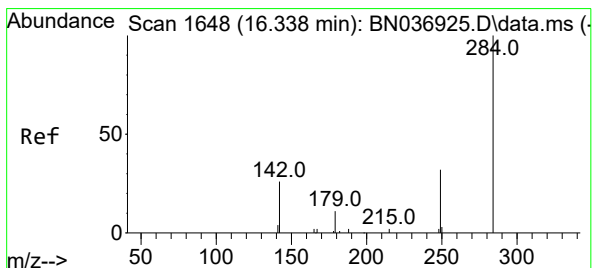
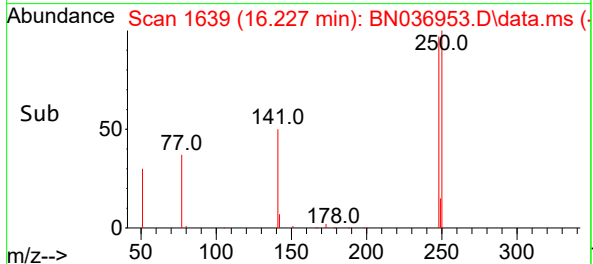
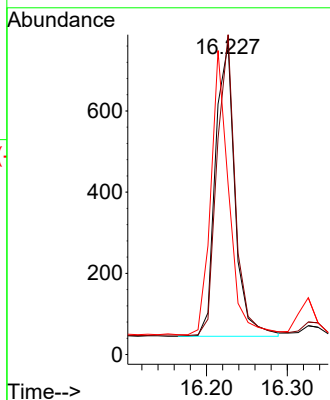
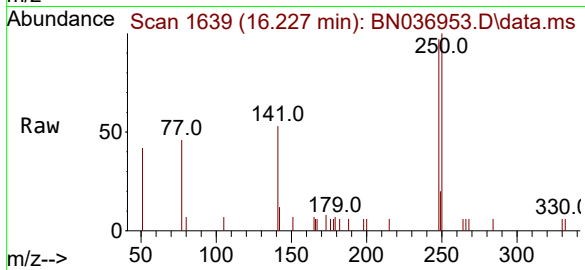




#21
4-Bromophenyl-phenylether
Concen: 0.338 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

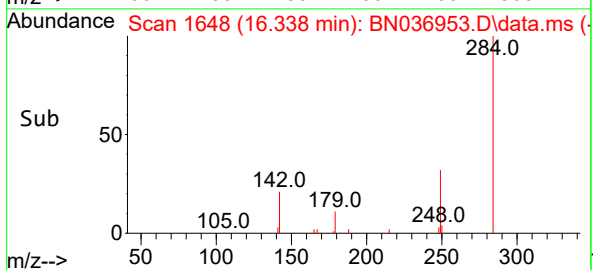
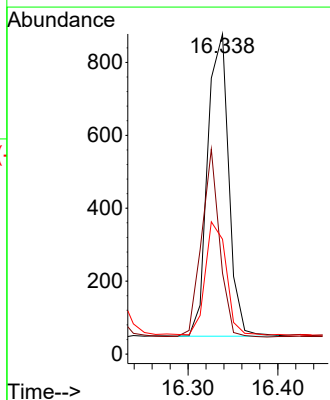
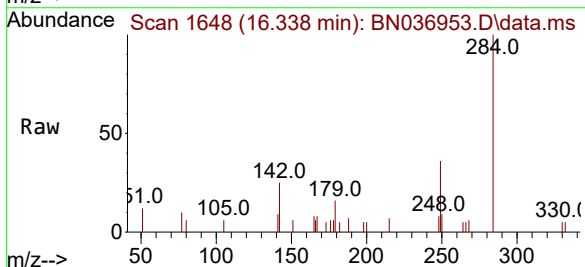
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

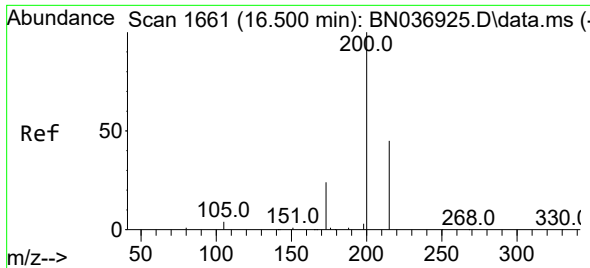
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.9	83.7	125.5
141	54.7	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.345 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion	Ratio	Lower	Upper
284	100		
142	53.1	40.0	60.0
249	37.5	28.2	42.2

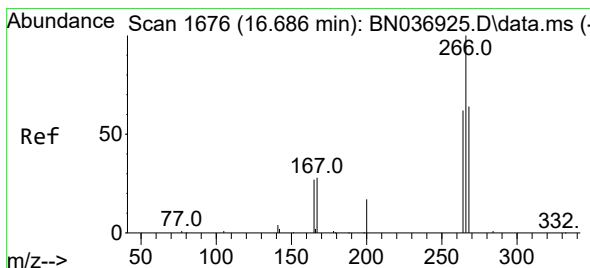
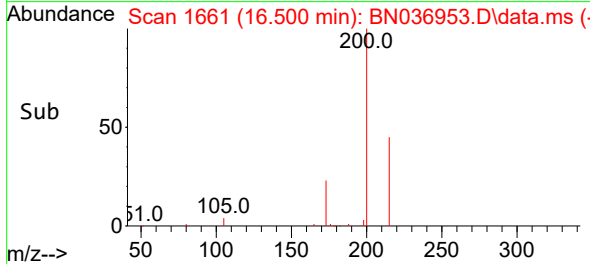
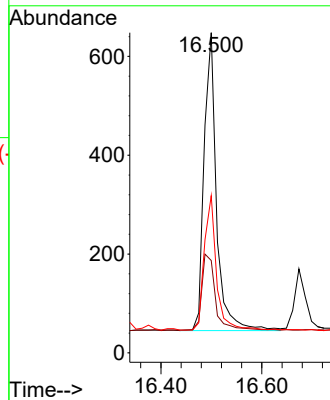
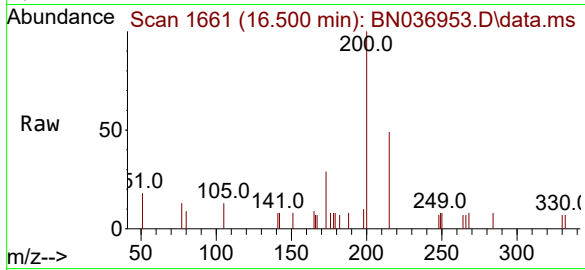




#23
Atrazine
Concen: 0.359 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

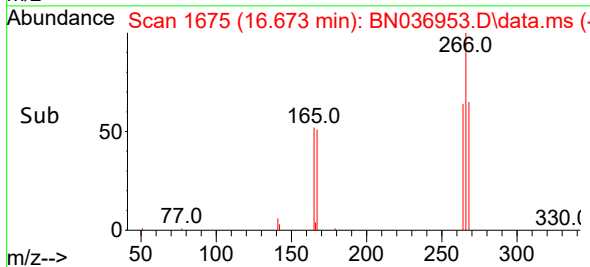
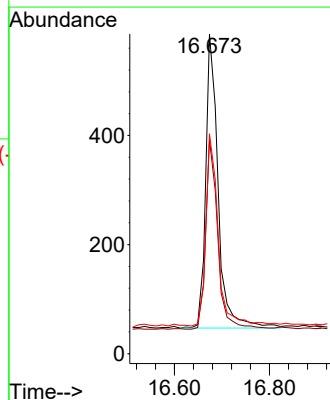
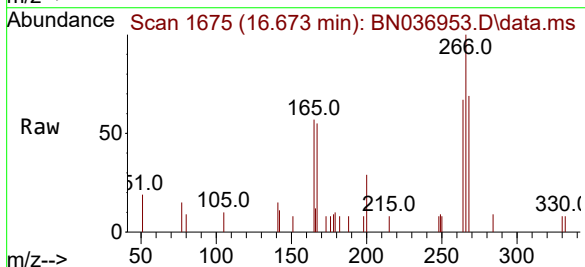
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

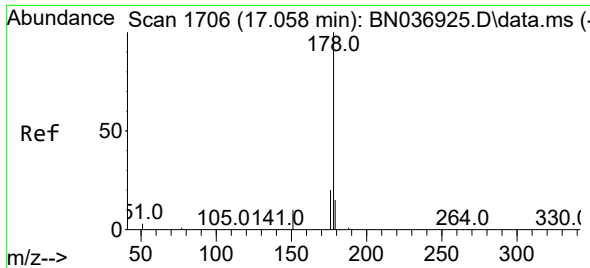
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.9	22.4	33.6
215	49.1	38.6	57.8



#24
Pentachlorophenol
Concen: 0.468 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.9	49.9	74.9
268	65.0	52.2	78.4

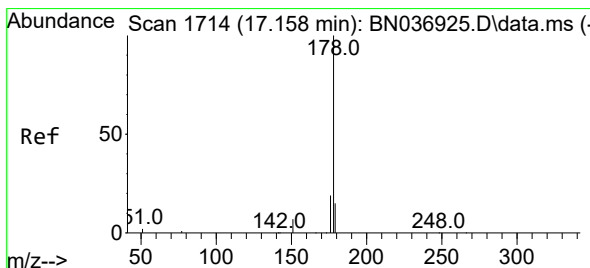
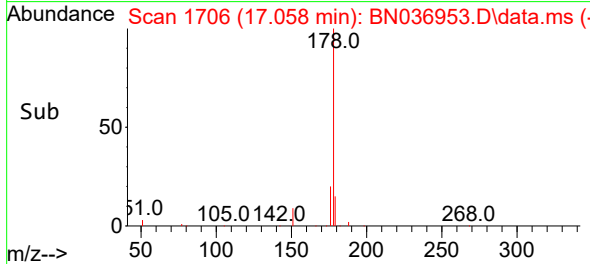
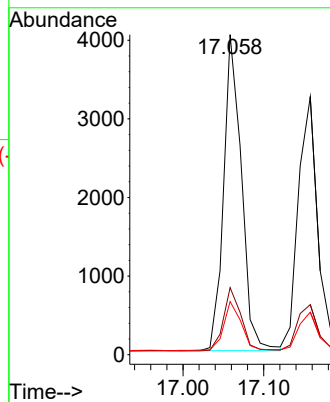
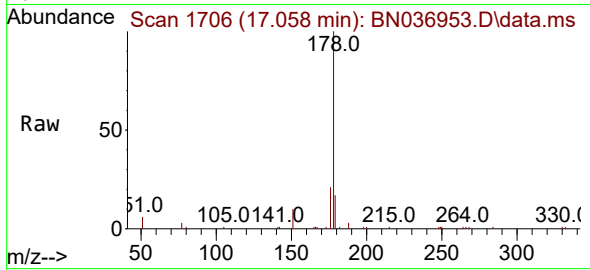




#25
Phenanthrene
Concen: 0.348 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

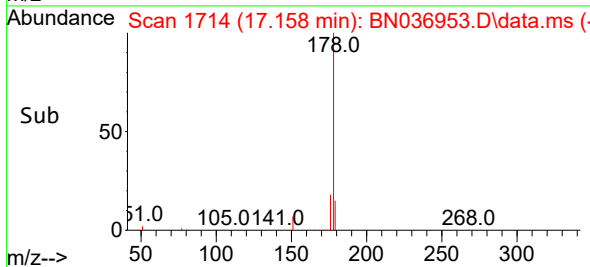
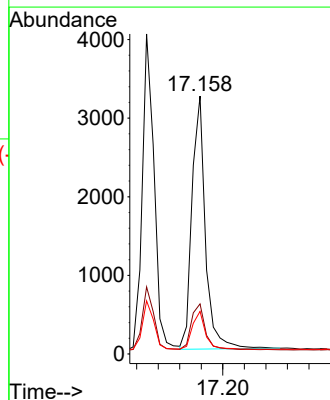
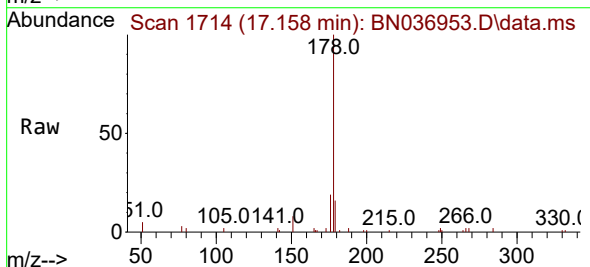
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

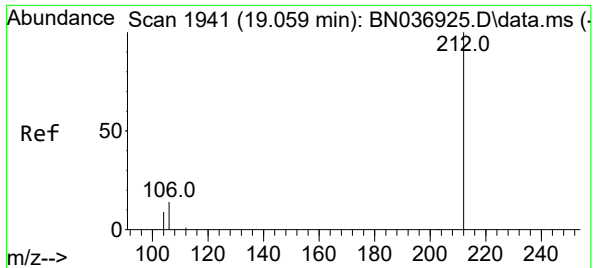
Tgt Ion:178 Resp: 6172
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.5 12.4 18.6



#26
Anthracene
Concen: 0.349 ng
RT: 17.158 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:178 Resp: 5592
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 14.7 12.1 18.1

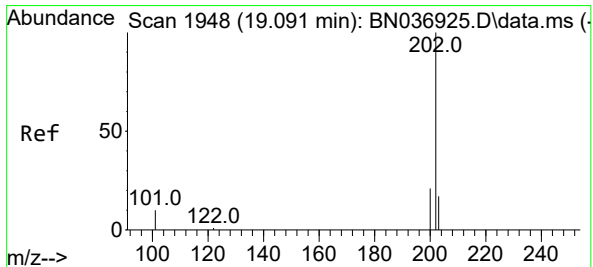
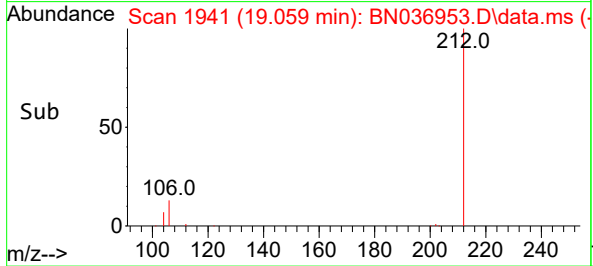
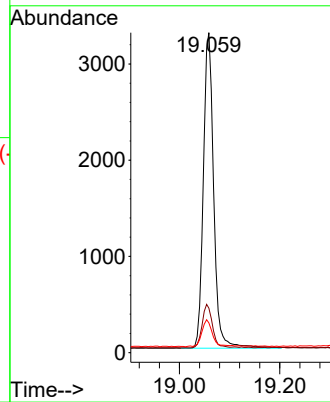
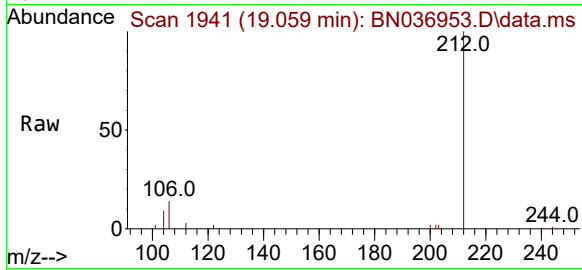




#27
Fluoranthene-d10
Concen: 0.338 ng
RT: 19.059 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

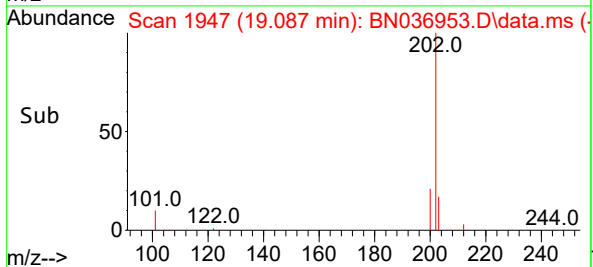
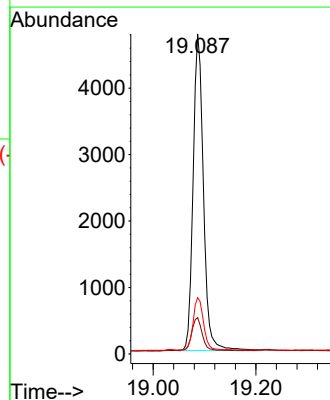
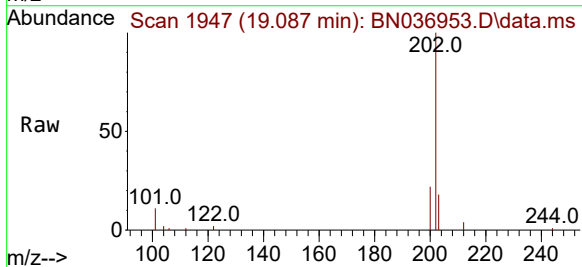
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

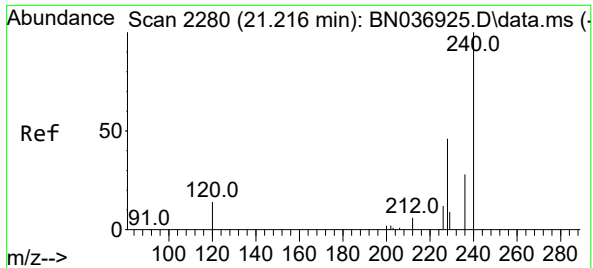
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.6	17.4
104	9.2	7.0	10.4



#28
Fluoranthene
Concen: 0.335 ng
RT: 19.087 min Scan# 1947
Delta R.T. -0.005 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.5	8.5	12.7
203	16.6	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036953.D

Acq: 30 Apr 2025 18:53

Instrument :

BNA_N

ClientSampleId :

PB167760BSD

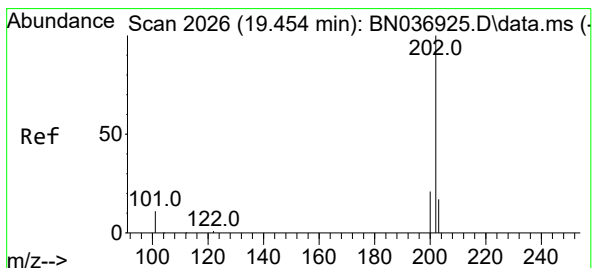
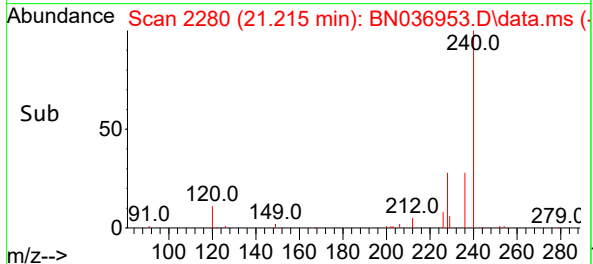
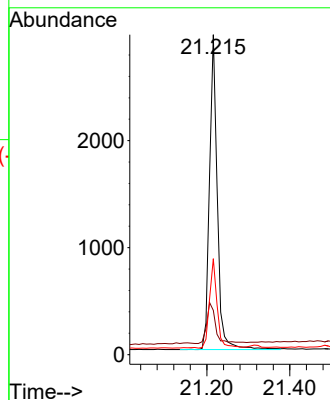
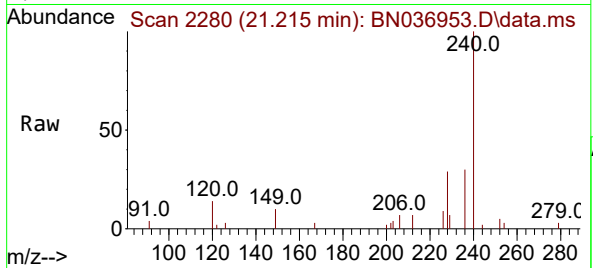
Tgt Ion:240 Resp: 3877

Ion Ratio Lower Upper

240 100

120 13.8 14.1 21.1#

236 30.0 23.8 35.8



#30

Pyrene

Concen: 0.361 ng

RT: 19.449 min Scan# 2025

Delta R.T. -0.005 min

Lab File: BN036953.D

Acq: 30 Apr 2025 18:53

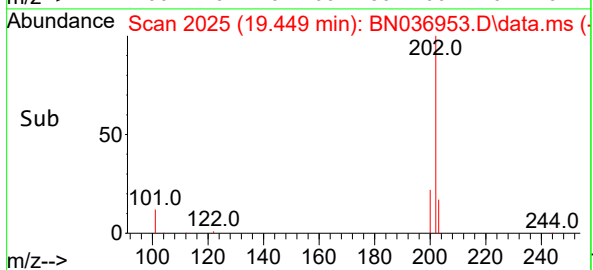
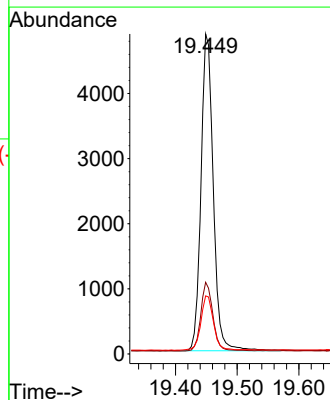
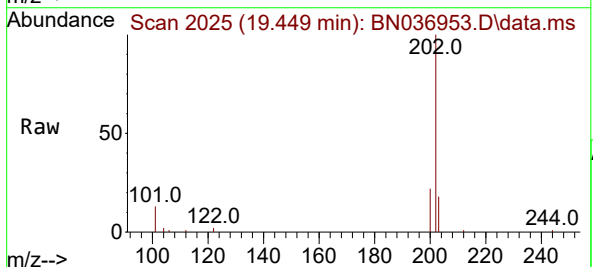
Tgt Ion:202 Resp: 6741

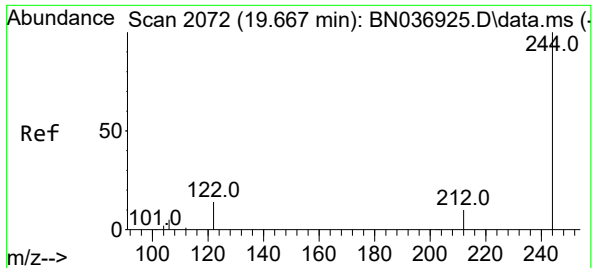
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.5 14.0 21.0

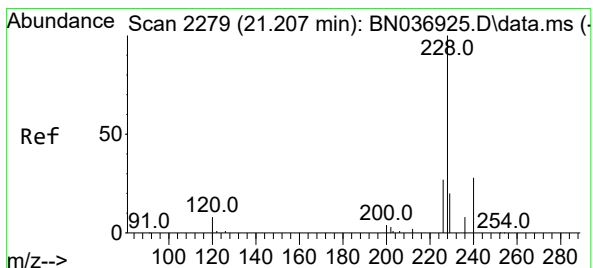
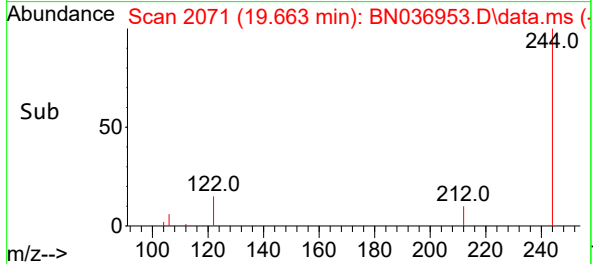
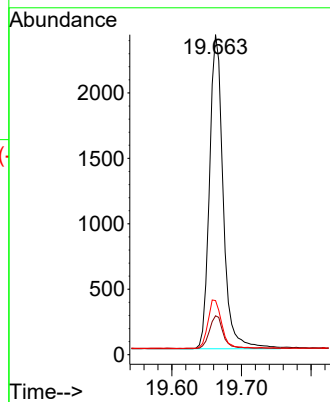
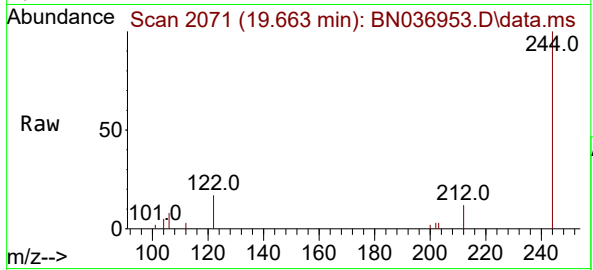




#31
Terphenyl-d14
Concen: 0.358 ng
RT: 19.663 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

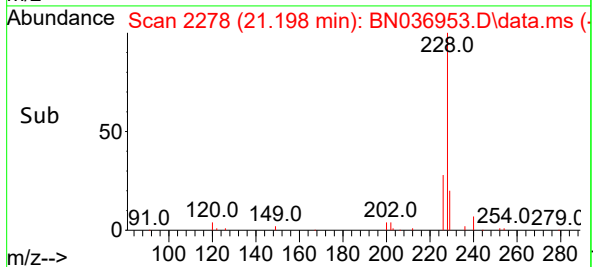
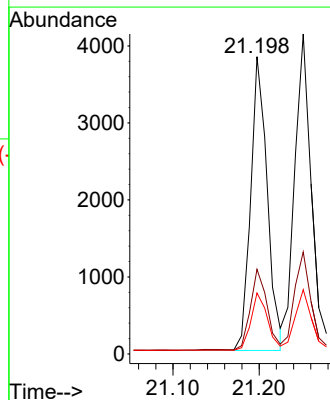
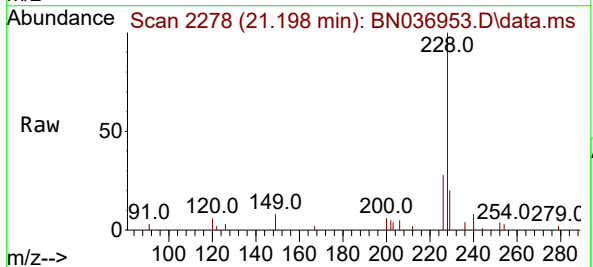
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

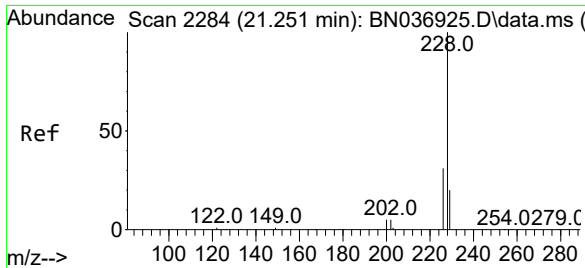
Tgt Ion:244 Resp: 3275
Ion Ratio Lower Upper
244 100
212 12.2 9.6 14.4
122 16.9 12.7 19.1



#32
Benzo(a)anthracene
Concen: 0.357 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:228 Resp: 5104
Ion Ratio Lower Upper
228 100
226 28.5 22.2 33.4
229 20.5 16.4 24.6





#33

Chrysene

Concen: 0.371 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036953.D

Acq: 30 Apr 2025 18:53

Instrument :

BNA_N

ClientSampleId :

PB167760BSD

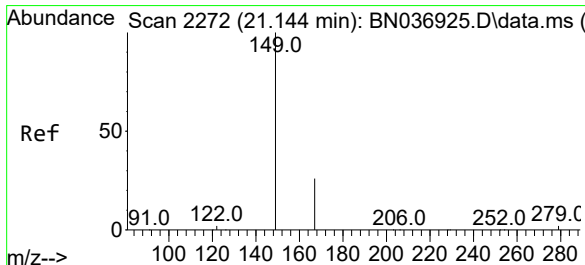
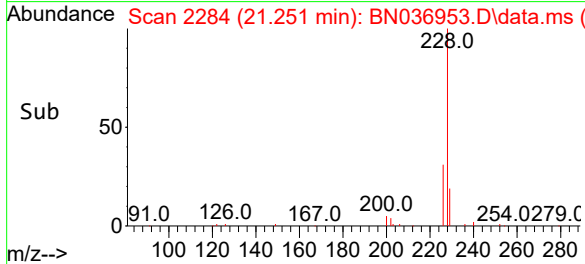
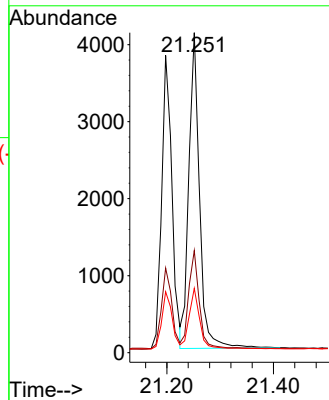
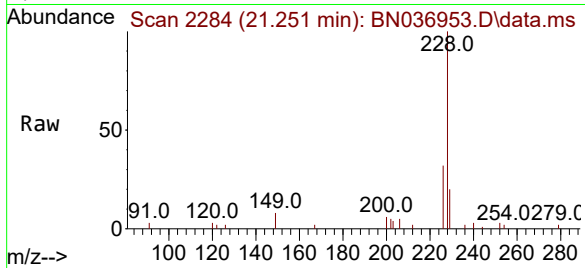
Tgt Ion:228 Resp: 5714

Ion Ratio Lower Upper

228 100

226 31.9 25.5 38.3

229 20.1 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.348 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036953.D

Acq: 30 Apr 2025 18:53

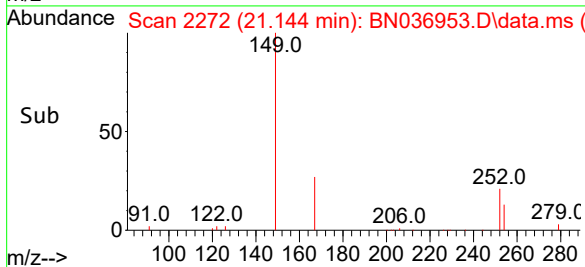
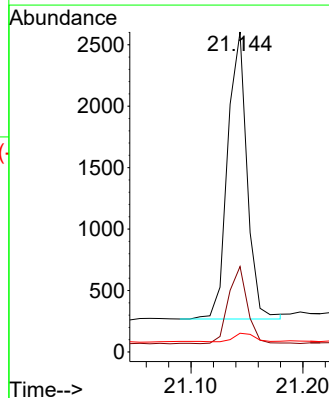
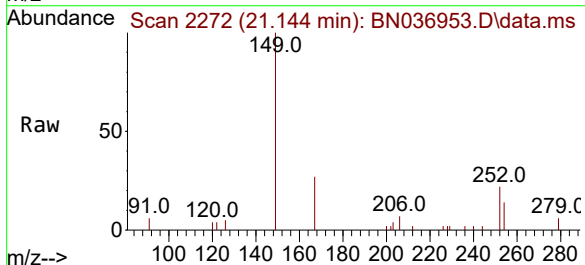
Tgt Ion:149 Resp: 2825

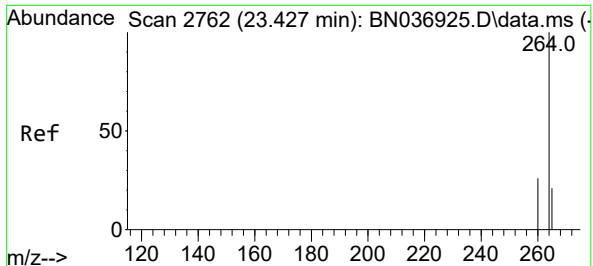
Ion Ratio Lower Upper

149 100

167 25.9 21.0 31.6

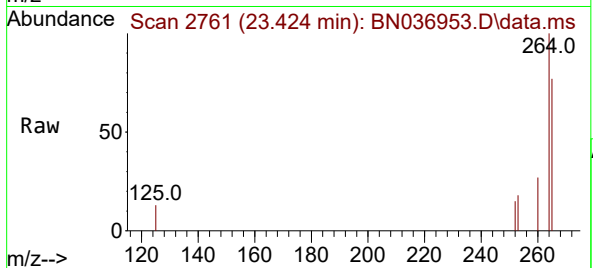
279 3.1 2.7 4.1



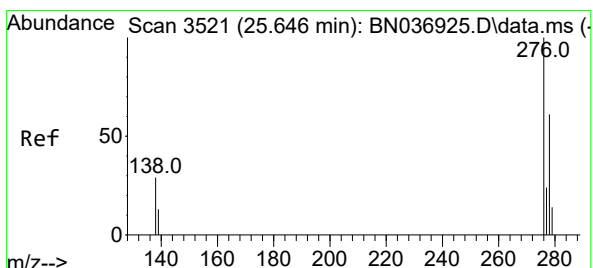
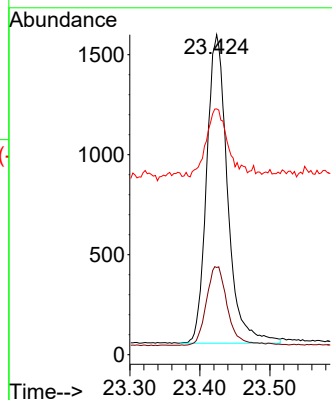
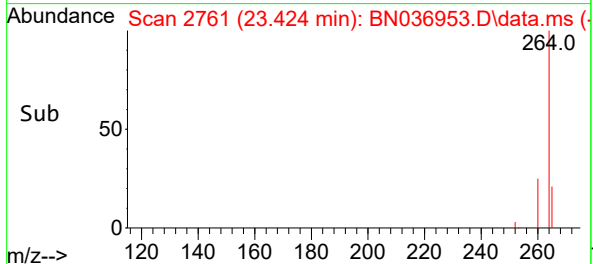


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.424 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

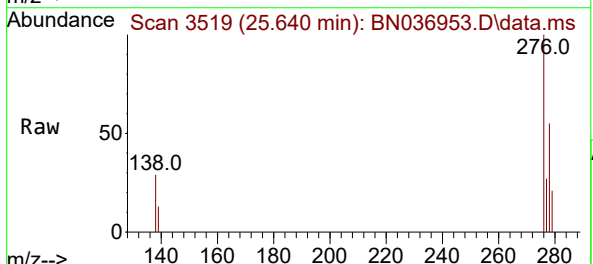
Instrument :
BNA_N
ClientSampleId :
PB167760BSD



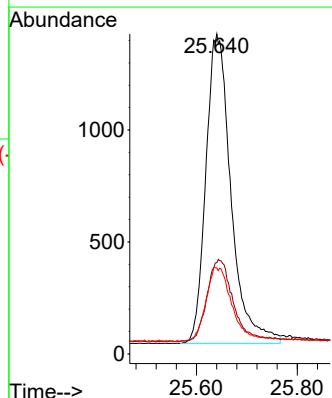
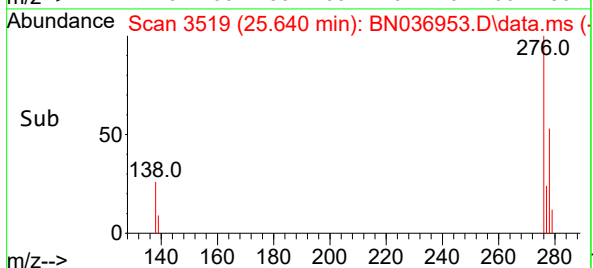
Tgt Ion:264 Resp: 3193
Ion Ratio Lower Upper
264 100
260 27.2 22.2 33.2
265 76.8 65.8 98.6

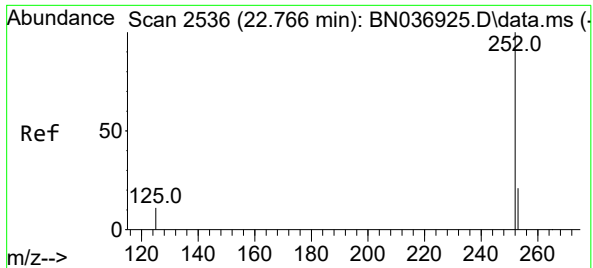


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.640 min Scan# 3519
Delta R.T. -0.006 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53



Tgt Ion:276 Resp: 4773
Ion Ratio Lower Upper
276 100
138 27.0 23.0 34.6
277 24.4 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.344 ng

RT: 22.760 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036953.D

Acq: 30 Apr 2025 18:53

Instrument :

BNA_N

ClientSampleId :

PB167760BSD

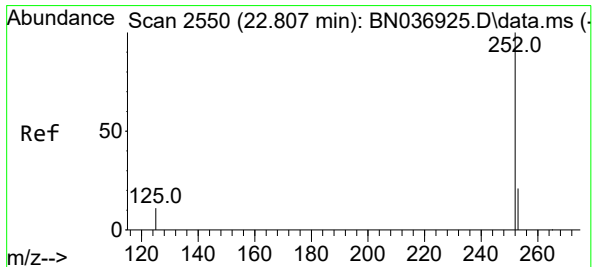
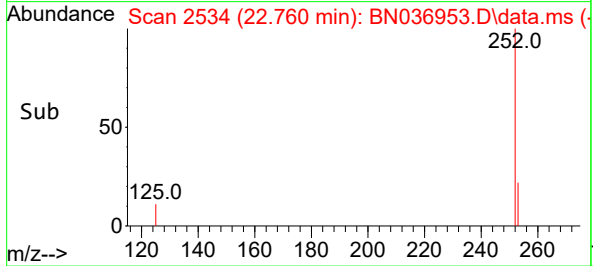
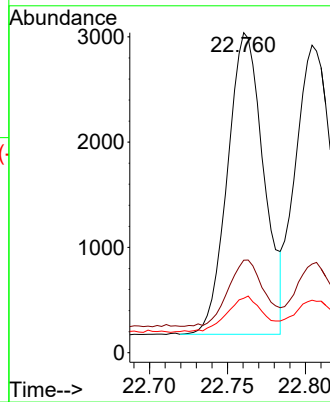
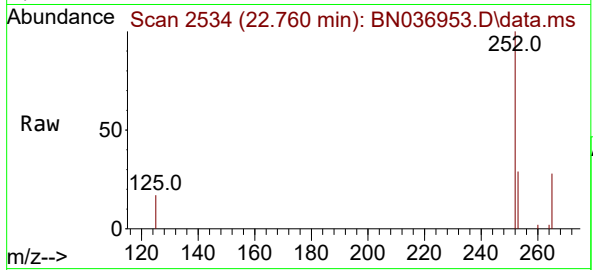
Tgt Ion:252 Resp: 4625

Ion Ratio Lower Upper

252 100

253 28.9 22.1 33.1

125 17.0 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.362 ng

RT: 22.804 min Scan# 2549

Delta R.T. -0.003 min

Lab File: BN036953.D

Acq: 30 Apr 2025 18:53

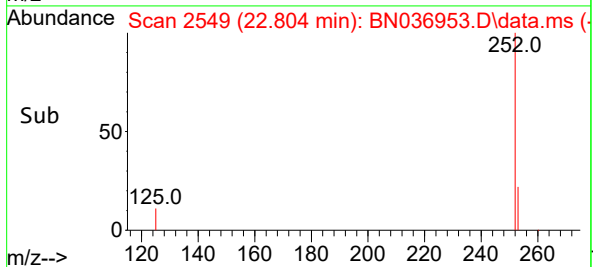
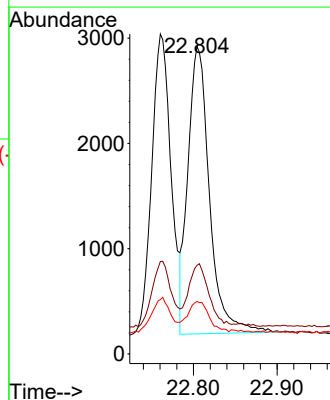
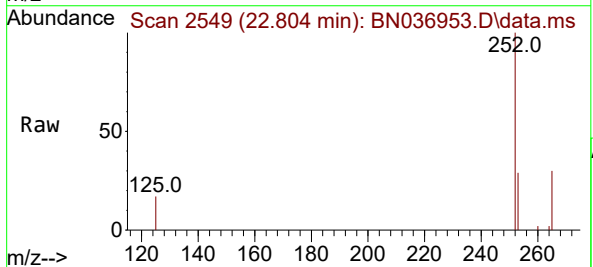
Tgt Ion:252 Resp: 4890

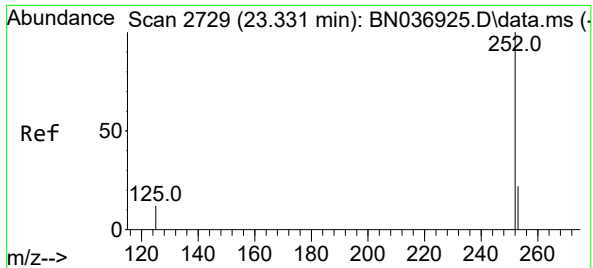
Ion Ratio Lower Upper

252 100

253 28.9 22.8 34.2

125 17.1 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.371 ng

RT: 23.328 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036953.D

Acq: 30 Apr 2025 18:53

Instrument :

BNA_N

ClientSampleId :

PB167760BSD

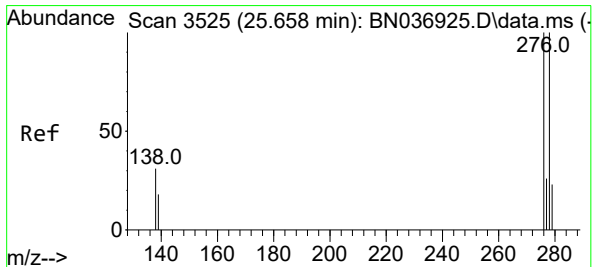
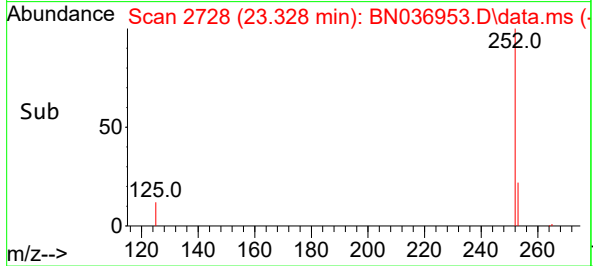
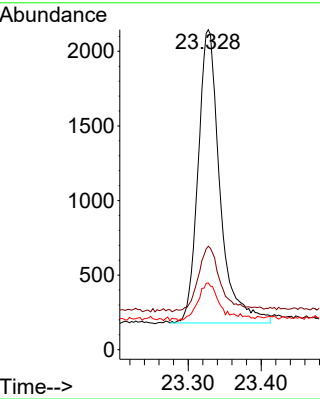
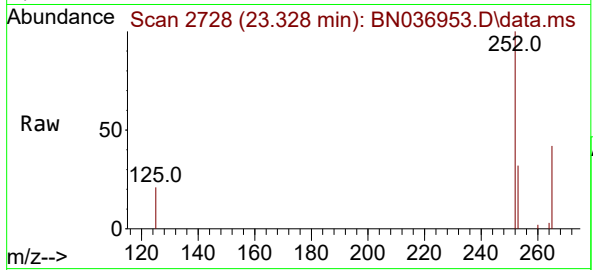
Tgt Ion:252 Resp: 4098

Ion Ratio Lower Upper

252 100

253 32.3 25.9 38.9

125 20.8 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.357 ng

RT: 25.658 min Scan# 3525

Delta R.T. -0.000 min

Lab File: BN036953.D

Acq: 30 Apr 2025 18:53

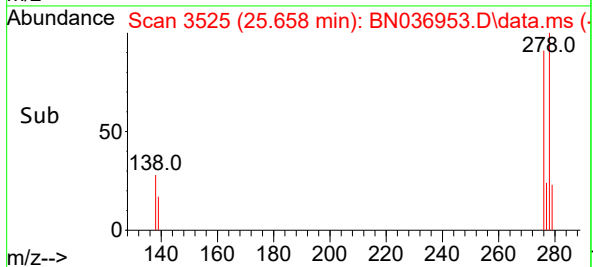
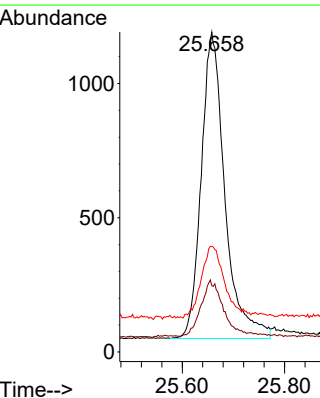
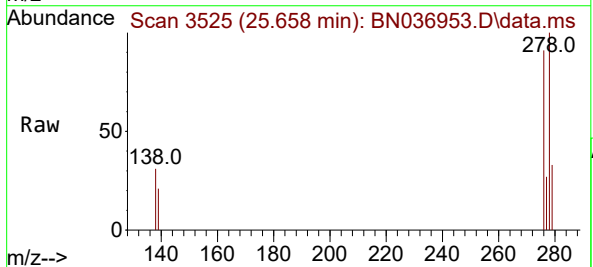
Tgt Ion:278 Resp: 3659

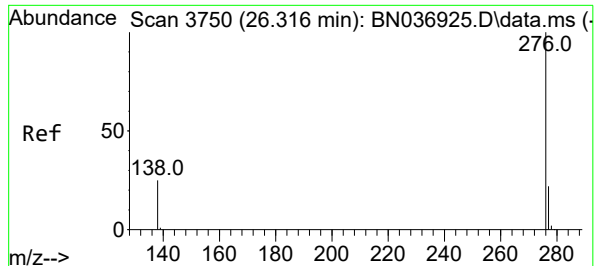
Ion Ratio Lower Upper

278 100

139 20.6 17.4 26.2

279 33.0 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.331 ng

RT: 26.318 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036953.D

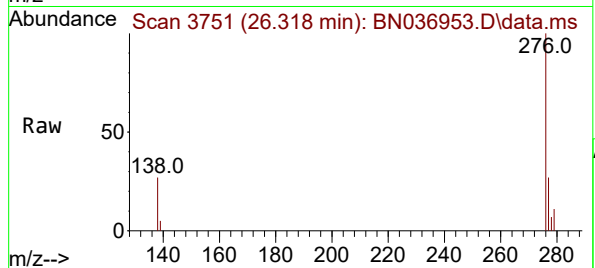
Acq: 30 Apr 2025 18:53

Instrument :

BNA_N

ClientSampleId :

PB167760BSD



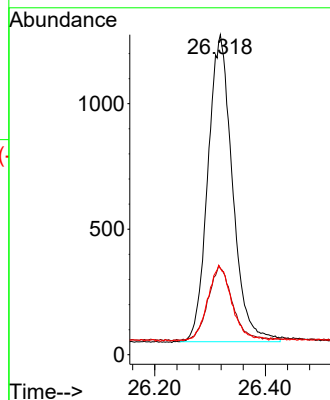
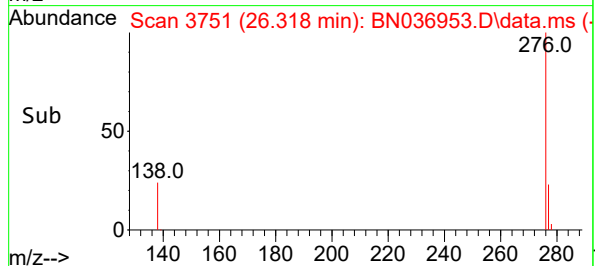
Tgt Ion:276 Resp: 3771

Ion Ratio Lower Upper

276 100

277 26.9 20.2 30.2

138 27.1 21.9 32.9



Manual Integration Report

Sequence:

BN042825

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN036923.D	1,4-Dioxane	Rahul	4/29/2025 8:53:49 AM	Jagrut	4/29/2025 11:57:36 AM	Peak Integrated by Software
SSTDICC0.2	BN036924.D	1,4-Dioxane	Rahul	4/29/2025 8:53:52 AM	Jagrut	4/29/2025 11:57:39 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

BN043025

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB167760BS	BN036952.D	2-Methylnaphthalene-d1 0	Rahul	5/1/2025 11:30:08 AM	Jagrut	5/1/2025 1:21:03 PM	Peak Integrated by Software
PB167760BSD	BN036953.D	2-Methylnaphthalene-d1 0	Rahul	5/1/2025 11:30:10 AM	Jagrut	5/1/2025 1:21:06 PM	Peak Integrated by Software

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN042825

Review By	Rahul	Review On	4/29/2025 8:54:47 AM
Supervise By	Jagrut	Supervise On	4/29/2025 11:57:54 AM
SubDirectory	BN042825	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN042825
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036922.D	28 Apr 2025 10:56	RC/JU	Ok
2	SSTDIC0.1	BN036923.D	28 Apr 2025 11:35	RC/JU	Ok,M
3	SSTDIC0.2	BN036924.D	28 Apr 2025 12:11	RC/JU	Ok,M
4	SSTDIC0.4	BN036925.D	28 Apr 2025 12:47	RC/JU	Ok
5	SSTDIC0.8	BN036926.D	28 Apr 2025 13:24	RC/JU	Ok
6	SSTDIC1.6	BN036927.D	28 Apr 2025 14:00	RC/JU	Ok
7	SSTDIC3.2	BN036928.D	28 Apr 2025 14:36	RC/JU	Ok
8	SSTDIC5.0	BN036929.D	28 Apr 2025 15:12	RC/JU	Ok
9	SSTDICV0.4	BN036930.D	28 Apr 2025 15:51	RC/JU	Ok
10	PB167430BL	BN036931.D	28 Apr 2025 17:39	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN043025

Review By	Rahul	Review On	5/1/2025 11:31:01 AM
Supervise By	Jagrut	Supervise On	5/1/2025 1:21:29 PM
SubDirectory	BN043025	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN042825
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036940.D	30 Apr 2025 10:20	RC/JU	Ok
2	SSTDCCC0.4	BN036941.D	30 Apr 2025 10:59	RC/JU	Ok
3	PB167760BL	BN036942.D	30 Apr 2025 11:38	RC/JU	Ok
4	Q1885-01	BN036943.D	30 Apr 2025 12:16	RC/JU	Ok
5	Q1885-02	BN036944.D	30 Apr 2025 12:52	RC/JU	Ok,M
6	Q1885-03	BN036945.D	30 Apr 2025 13:28	RC/JU	Ok
7	Q1870-01DL3	BN036946.D	30 Apr 2025 14:40	RC/JU	Ok
8	Q1886-01	BN036947.D	30 Apr 2025 15:16	RC/JU	Dilution
9	Q1886-02	BN036948.D	30 Apr 2025 15:52	RC/JU	Ok
10	Q1886-03	BN036949.D	30 Apr 2025 16:28	RC/JU	Ok
11	Q1885-04	BN036950.D	30 Apr 2025 17:05	RC/JU	Ok
12	Q1886-01DL	BN036951.D	30 Apr 2025 17:41	RC/JU	Ok
13	PB167760BS	BN036952.D	30 Apr 2025 18:17	RC/JU	Ok,M
14	PB167760BSD	BN036953.D	30 Apr 2025 18:53	RC/JU	Ok,M
15	SSTDCCC0.4	BN036954.D	30 Apr 2025 19:29	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN042825

Review By	Rahul	Review On	4/29/2025 8:54:47 AM
Supervise By	Jagrut	Supervise On	4/29/2025 11:57:54 AM
SubDirectory	BN042825	HP Acquire Method	BNA_N, 8270_HP Processing Method BN042825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036922.D	28 Apr 2025 10:56		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036923.D	28 Apr 2025 11:35	Compound#20 removed from 0.1 ppm	RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN036924.D	28 Apr 2025 12:11		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN036925.D	28 Apr 2025 12:47		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036926.D	28 Apr 2025 13:24		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036927.D	28 Apr 2025 14:00		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036928.D	28 Apr 2025 14:36		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036929.D	28 Apr 2025 15:12		RC/JU	Ok
9	SSTDICV0.4	ICVBN042825	BN036930.D	28 Apr 2025 15:51		RC/JU	Ok
10	PB167430BL	PB167430BL	BN036931.D	28 Apr 2025 17:39	Internal Standard Fail, Analyzed for contamination check	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN043025

Review By	Rahul	Review On	5/1/2025 11:31:01 AM
Supervise By	Jagrut	Supervise On	5/1/2025 1:21:29 PM
SubDirectory	BN043025	HP Acquire Method	BNA_N, 8270_HP Processing Method BN042825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036940.D	30 Apr 2025 10:20		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036941.D	30 Apr 2025 10:59		RC/JU	Ok
3	PB167760BL	PB167760BL	BN036942.D	30 Apr 2025 11:38		RC/JU	Ok
4	Q1885-01	RW7-SP100-20250423	BN036943.D	30 Apr 2025 12:16		RC/JU	Ok
5	Q1885-02	RW7-SP201-20250423	BN036944.D	30 Apr 2025 12:52		RC/JU	Ok,M
6	Q1885-03	RW7-SP302-20250423	BN036945.D	30 Apr 2025 13:28		RC/JU	Ok
7	Q1870-01DL3	38072-010925DL3	BN036946.D	30 Apr 2025 14:40		RC/JU	Ok
8	Q1886-01	RW5-SP100-20250423	BN036947.D	30 Apr 2025 15:16	Need 2X Dilution	RC/JU	Dilution
9	Q1886-02	RW5-SP201-20250423	BN036948.D	30 Apr 2025 15:52		RC/JU	Ok
10	Q1886-03	RW5-SP303-20250423	BN036949.D	30 Apr 2025 16:28		RC/JU	Ok
11	Q1885-04	RW7-SP303-20250423	BN036950.D	30 Apr 2025 17:05		RC/JU	Ok
12	Q1886-01DL	RW5-SP100-20250423	BN036951.D	30 Apr 2025 17:41		RC/JU	Ok
13	PB167760BS	PB167760BS	BN036952.D	30 Apr 2025 18:17		RC/JU	Ok,M
14	PB167760BSD	PB167760BSD	BN036953.D	30 Apr 2025 18:53		RC/JU	Ok,M
15	SSTDCCC0.4	SSTDCCC0.4EC	BN036954.D	30 Apr 2025 19:29		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Welgh 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: ☒ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Extraction Start Date : 04/28/2025

Extraction Start Time : 08:50

Extraction End Date : 04/28/2025

Extraction End Time : 13:50

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	SP6739
Surrogate	1.0ML	0.4 PPM	SP6758
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	E3926
Baked Na2SO4	N/A	EP2607
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
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# 2210673. 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
4/28/25	RS (Ext Lab)	Rc/svoc
13:55	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 04/28/2025

Sample ID	Client Sample ID	Test	g / (mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167760BL	SBLK760	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-1
PB167760BS	SLCS760	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
PB167760BS D	SLCSD760	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			3
Q1885-01	RW7-SP100-20250423	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			4
Q1885-02	RW7-SP201-20250423	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			5
Q1885-03	RW7-SP302-20250423	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			6
Q1885-04	RW7-SP303-20250423	SVOC-SIMGrou p1	960	6	RUPESH	ritesh	1			7
Q1886-01	RW5-SP100-20250423	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			8
Q1886-02	RW5-SP201-20250423	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			9
Q1886-03	RW5-SP303-20250423	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			10

Rs
4/28

* Extracts relinquished on the same date as received.

09/25/25
45:38

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1885 WorkList ID : 189176 Department : Extraction Date : 04-28-2025 08:46:33

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1885-01	RW7-SP100-20250423	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	04/23/2025	8270-Modified
Q1885-02	RW7-SP201-20250423	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	04/23/2025	8270-Modified
Q1885-03	RW7-SP302-20250423	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	04/23/2025	8270-Modified
Q1885-04	RW7-SP303-20250423	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	04/23/2025	8270-Modified
Q1886-01	RW5-SP100-20250423	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L51	04/23/2025	8270-Modified
Q1886-02	RW5-SP201-20250423	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L51	04/23/2025	8270-Modified
Q1886-03	RW5-SP303-20250423	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L51	04/23/2025	8270-Modified

Date/Time4/28/258:46

Raw Sample Received by:RJ (Ext 646)

Raw Sample Relinquished by:DP

Date/Time4/28/259:30

Raw Sample Received by:

Raw Sample Relinquished by:RJ (Ext 646)



Prep Standard - Chemical Standard Summary

Order ID : Q1886
Test : SVOC-SIMGroup1
Prepbatch ID : PB167760,
Sequence ID/Qc Batch ID: BN043025,

Standard ID :
EP2559,EP2565,EP2607,SP6682,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6757,SP6758,SP6767,SP6768,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3828,E3873,E3874,E3904,E3915,E3926,M5173,S10104,S 11495,S11650,S11785,S11788,S11832,S12114,S12195,S12216,S12270,S12328,S12478,S12486,S12525,S12533,S12577,S12651,S12791,S12966,S12974,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	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

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	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 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	EP2607	04/25/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 04/25/2025

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	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.10000ml of S12328 + 4.90000ml of E3828 = 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>
3339	8270 sim calibration stock 10ppm (CPI)	SP6730	02/04/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.03350ml of S10104 + 0.05000ml of S11495 + 0.12500ml of S11832 + 0.12500ml of S12114 + 0.25000ml of S12270 + 0.25000ml of S12791 + 24.16650ml of E3874 = 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	SP6731	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6730 = 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	SP6732	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patell 02/07/2025

FROM 0.68000ml of E3874 + 0.01000ml of SP6682 + 0.32000ml of SP6730 = 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	SP6733	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.84000ml of E3874 + 0.01000ml of SP6682 + 0.16000ml of SP6730 = 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	SP6734	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.92000ml of E3874 + 0.01000ml of SP6682 + 0.08000ml of SP6730 = 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	SP6735	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.96000ml of E3874 + 0.01000ml of SP6682 + 0.04000ml of SP6730 = 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	SP6736	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6735 = 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	SP6738	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.75000ml of E3874 + 0.01000ml of SP6682 + 0.25000ml of SP6735 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6739	02/05/2025	07/29/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025
FROM 0.00080ml of S11650 + 0.01000ml of S11785 + 0.02000ml of S12478 + 0.02000ml of S12525 + 0.02000ml of S12966 + 49.92920ml of E3873 = Final Quantity: 50.000 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>
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>
3895	50 ug/ml DFTPP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay
04/01/2025								

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

<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	SP6758	04/03/2025	07/24/2025	Rahul Chavli	None	None	mohammad ahmed
04/07/2025								

FROM 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11832 + 199.93600ml of E3915 = 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>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6767	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani
SOURCE FROM 0.00630ml of S12195 + 0.01280ml of S12216 + 0.03200ml of S11788 + 0.03200ml of S11832 + 0.06400ml of S12486 + 0.06400ml of S12533 + 0.06400ml of S12974 + 19.72490ml of E3926 = Final Quantity: 20.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6768	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani
SOURCE FROM 0.87500ml of E3926 + 0.01000ml of SP6740 + 0.12500ml of SP6767 = Final Quantity: 1.010 ml								

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	07/01/2025	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)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

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	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904

CHEMICAL RECEIPT LOG BOOK

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	09/26/2025	03/26/2025 / Rajesh	03/19/2025 / RUPESH	E3915

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

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)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

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	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

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	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

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

CHEMICAL RECEIPT LOG BOOK

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	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

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	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

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	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

CHEMICAL RECEIPT LOG BOOK

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	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

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, CH2Cl2, 1mL	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

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	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

[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	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	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

[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	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	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 #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

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	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

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

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



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

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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.

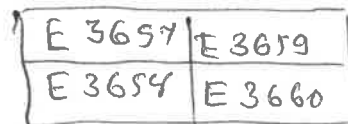
This document has been electronically produced and is valid without a signature.

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.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 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 3828

Jamie Croak
Director Quality Operations, Bioscience Production

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

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 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

Recd. by RP on 1/29/25

E 3873

Jamie Croak

Director Quality Operations, Bioscience Production

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

Avantor

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

Certificate of Analysis

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

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

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

E 3874



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

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

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

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

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Recd. by RS on 3/19/25

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3915

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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 ppm
Titration Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

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

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

E 3926

J. Croak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

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

Hydrochloric Acid, 36.5–38.0%
 BAKER INSTRA-ANALYZED® Reagent
 For Trace Metal Analysis



Material No.: 9530-33
 Batch No.: 0000281827
 Manufactured Date: 2021/03/30
 Retest Date: 2026/03/29
 Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

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

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

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



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

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	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.
↓ 08/11/2023
511498

*Not a certified value

Certified By: _____
Clint Tipton
Chemist

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

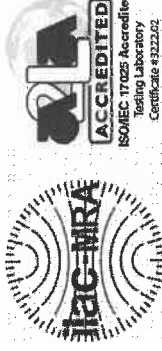


110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:	555872	Lot No.:	A0201728
Description:	Custom Pentachlorophenol Standard		
	Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul		
Container Size:	2 mL	Pkg Amt:	> 1 mL
Expiration Date:	September 30, 2026	Storage:	10°C or colder
		Ship:	Ambient

511649
↓
511658
Y.P.
11/13/23

CERTIFIED VALUES

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

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

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 Balance: B251644995

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

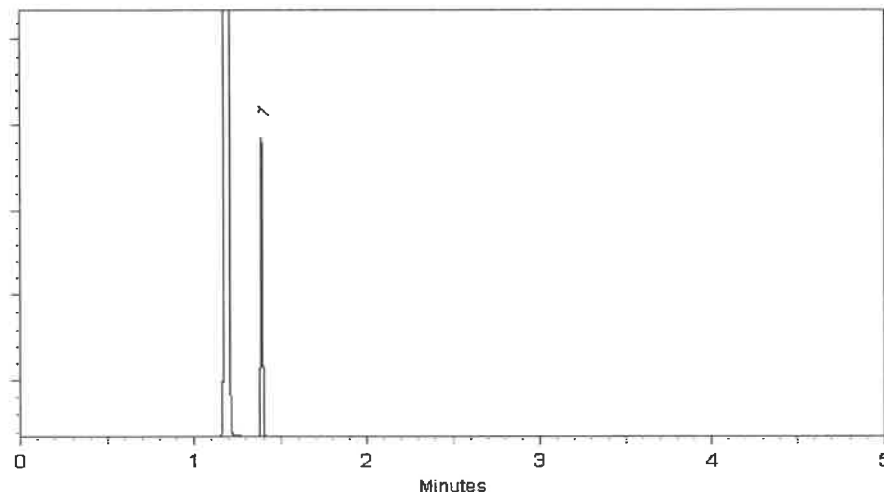
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

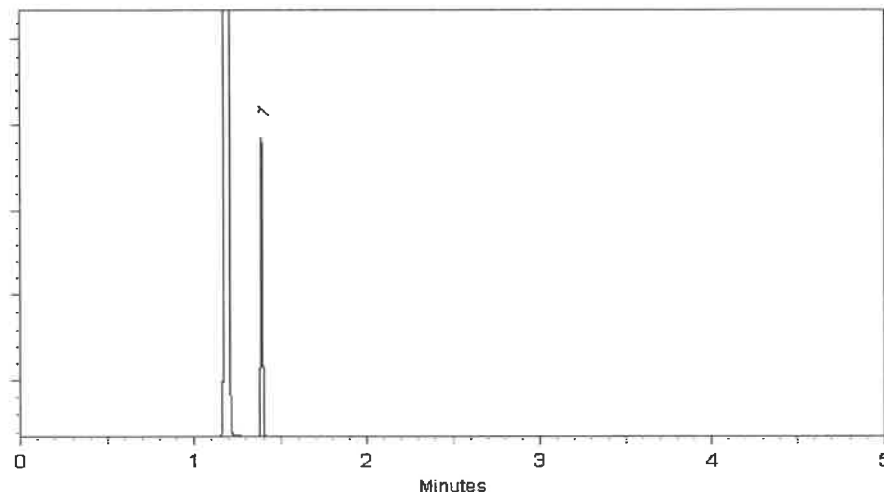
FID

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:

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- 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:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

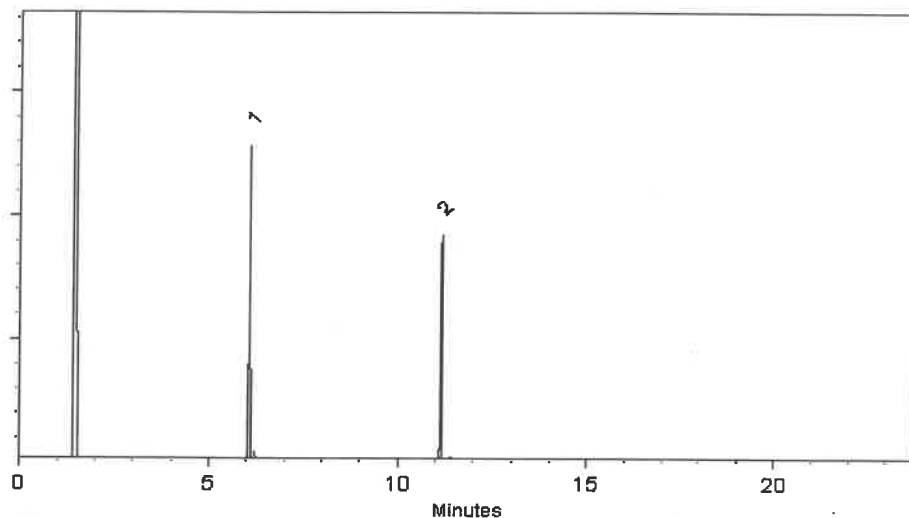
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

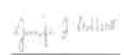


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Santa Rosa, CA 95403

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(707)545-7901 Fax

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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-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.



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chromatographic plus



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

Catalog No. : 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:

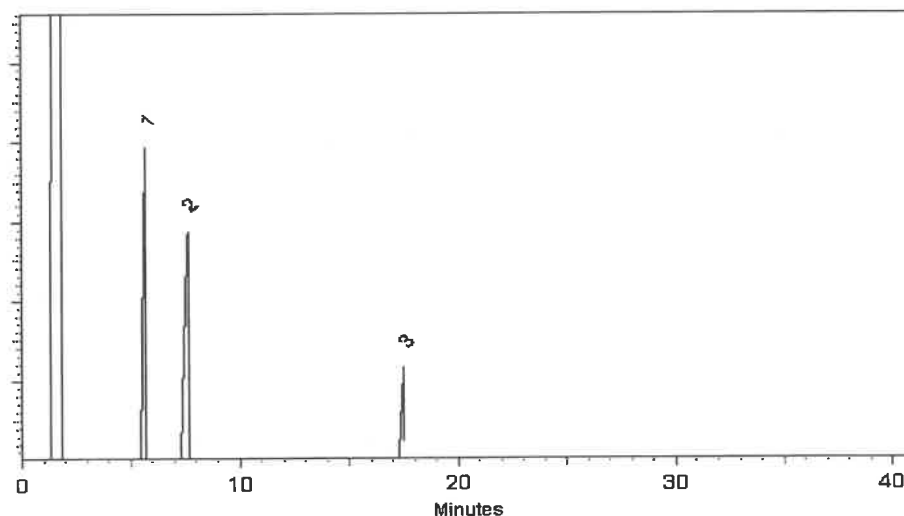
FID

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

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

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

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

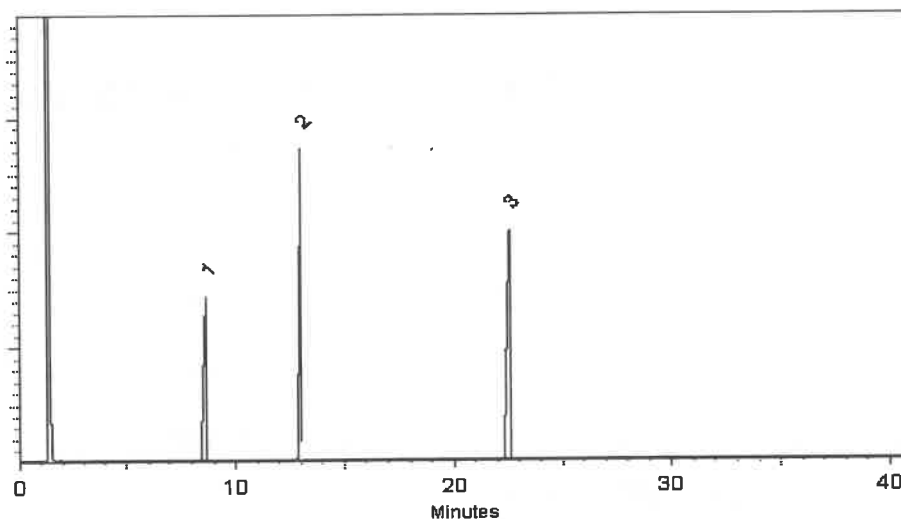
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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



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Date Received: _____

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Rev 0

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

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

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Kerry E Kane

Certified By:

Kerry Kane
Chemist

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



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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.:** A0206540

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 : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
↓ 05/30/24
S12331

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%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* 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:

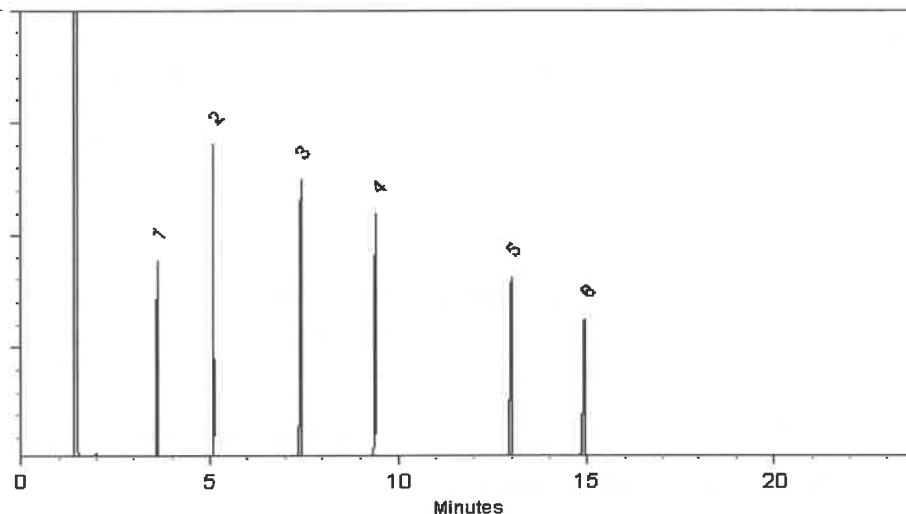
FID

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.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer J. Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

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



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gravimetric



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

Catalog No. : 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/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Fax: 1-814-353-1309

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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

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

S12449 } RC/
↓ 7/24/24
S12508 }

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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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:

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

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:

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Handling Notes:

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

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

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

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- 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:

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

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:

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Handling Notes:

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

Catalog No. : 31615 **Lot No.:** A0212955
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2027 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

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

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

S12577
↓
S12579 } RC
8/2/24

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

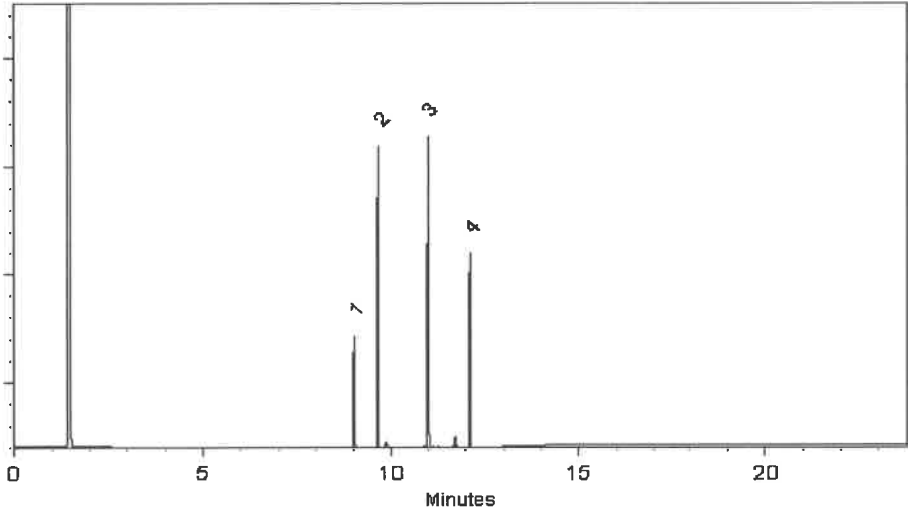
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

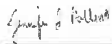
Inj. Vol
1µl



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


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

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



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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



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-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	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	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~512280~~ } RCL
↓
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL
↓
512794 } 11/12/24

*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: _____

Shane Overcash
Chemist

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



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

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

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

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

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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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.

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SHIPPING DOCUMENTS

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Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
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 Acq On : 28 Apr 2025 11:35
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Apr 28 15:11:53 2025
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

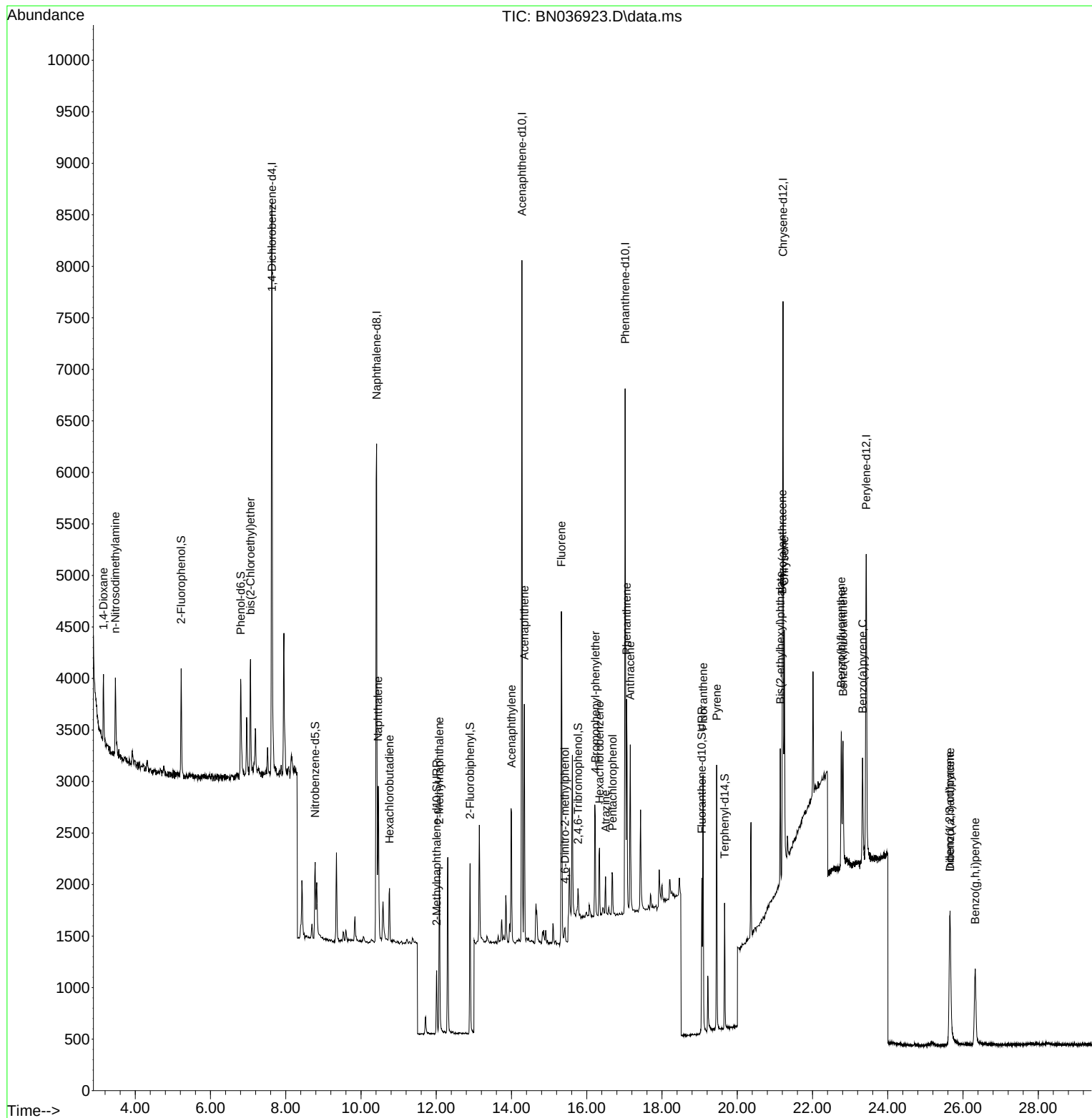
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Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2671	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6571	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3486	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6515	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4809	0.400	ng	0.00
35) Perylene-d12	23.427	264	4185	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	701	0.102	ng	0.00
5) Phenol-d6	6.802	99	848	0.101	ng	0.00
8) Nitrobenzene-d5	8.781	82	657	0.096	ng	0.00
11) 2-Methylnaphthalene-d10	12.011	152	887	0.097	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	136	0.089	ng	0.00
15) 2-Fluorobiphenyl	12.898	172	1636	0.097	ng	0.00
27) Fluoranthene-d10	19.059	212	1617	0.097	ng	0.00
31) Terphenyl-d14	19.662	244	1171	0.102	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	472	0.140	ng	90
3) n-Nitrosodimethylamine	3.473	42	603	0.093	ng	# 92
6) bis(2-Chloroethyl)ether	7.062	93	784	0.101	ng	98
9) Naphthalene	10.458	128	1897	0.099	ng	# 93
10) Hexachlorobutadiene	10.756	225	427	0.102	ng	# 99
12) 2-Methylnaphthalene	12.082	142	1176	0.096	ng	98
16) Acenaphthylene	13.999	152	1635	0.097	ng	100
17) Acenaphthene	14.341	154	1102	0.099	ng	98
18) Fluorene	15.325	166	1398	0.096	ng	99
20) 4,6-Dinitro-2-methylph...	15.421	198	117	0.072	ng	# 1
21) 4-Bromophenyl-phenylether	16.227	248	424	0.098	ng	95
22) Hexachlorobenzene	16.338	284	490	0.102	ng	97
23) Atrazine	16.500	200	314	0.092	ng	# 92
24) Pentachlorophenol	16.686	266	261	0.105	ng	92
25) Phenanthrene	17.058	178	2132	0.099	ng	98
26) Anthracene	17.157	178	1842	0.096	ng	100
28) Fluoranthene	19.091	202	2259	0.095	ng	97
30) Pyrene	19.453	202	2307	0.099	ng	98
32) Benzo(a)anthracene	21.197	228	1685	0.096	ng	96
33) Chrysene	21.251	228	1824	0.095	ng	96
34) Bis(2-ethylhexyl)phtha...	21.144	149	1141	0.114	ng	99
36) Indeno(1,2,3-cd)pyrene	25.646	276	1669	0.097	ng	99
37) Benzo(b)fluoranthene	22.763	252	1653	0.095	ng	# 66
38) Benzo(k)fluoranthene	22.810	252	1675	0.096	ng	# 63
39) Benzo(a)pyrene	23.330	252	1376	0.096	ng	# 61
40) Dibenzo(a,h)anthracene	25.658	278	1286	0.095	ng	# 70
41) Benzo(g,h,i)perylene	26.324	276	1527	0.101	ng	# 86

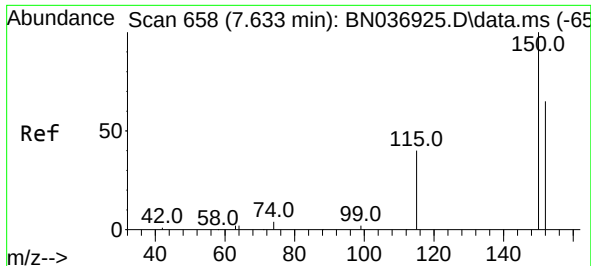
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Data File : BN036923.D
Acq On : 28 Apr 2025 11:35
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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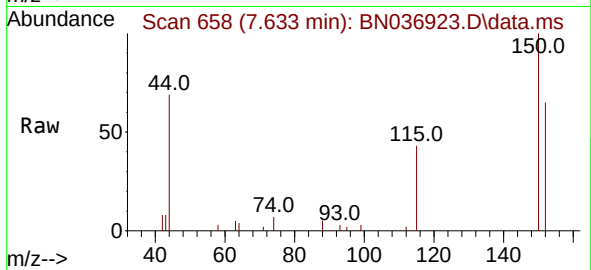
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration



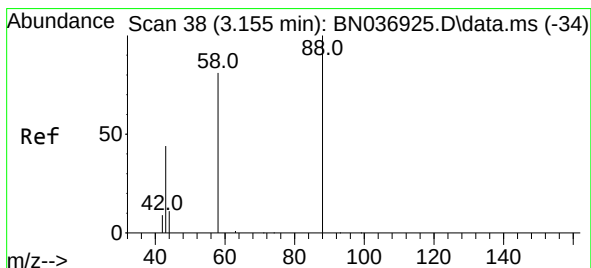
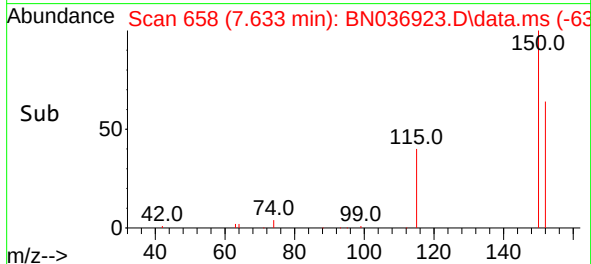
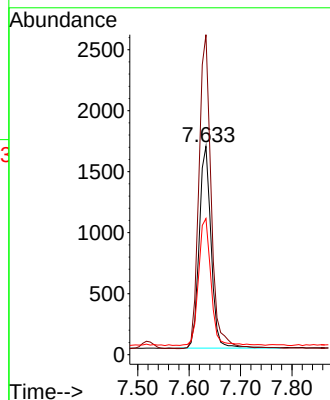


#1
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Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

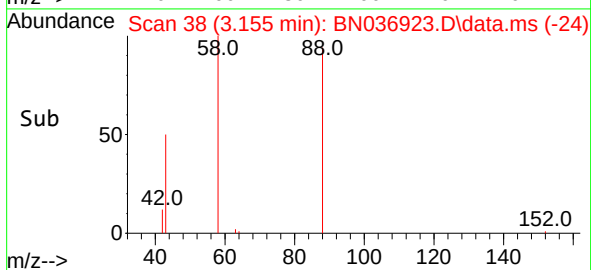
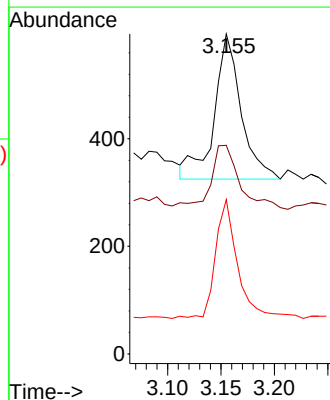
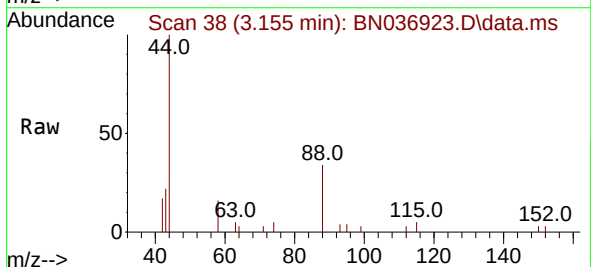


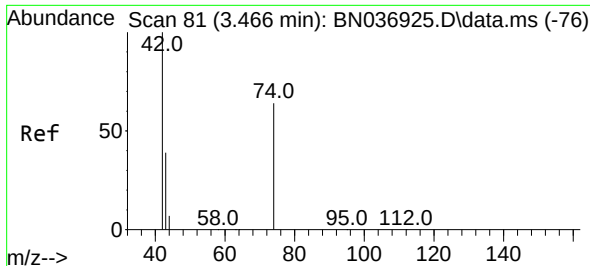
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Ion Ratio Lower Upper
152 100
150 153.7 121.1 181.7
115 65.4 51.8 77.6



#2
1,4-Dioxane
Concen: 0.140 ng
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion: 88 Resp: 472
Ion Ratio Lower Upper
88 100
43 47.9 37.9 56.9
58 67.8 65.8 98.6

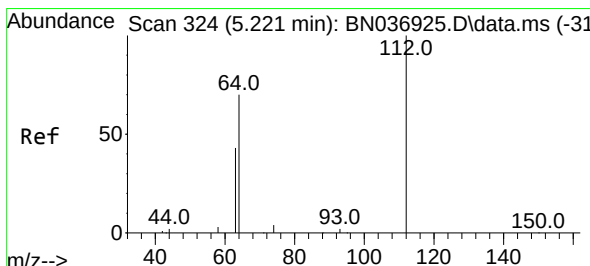
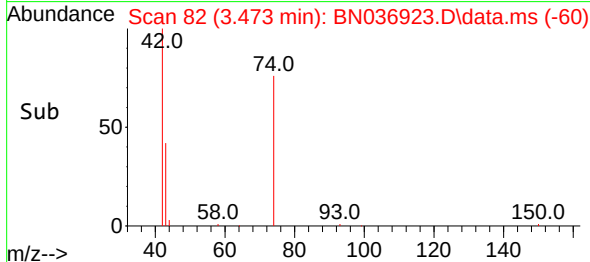
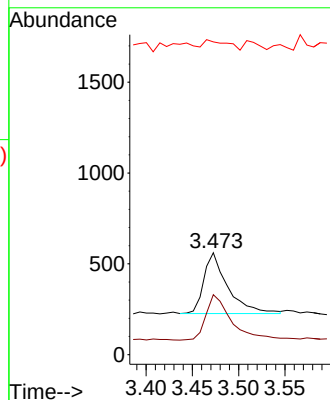
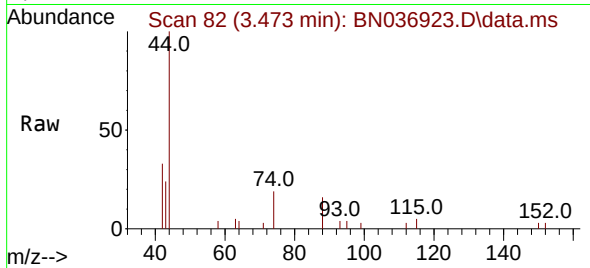




#3
 n-Nitrosodimethylamine
 Concen: 0.093 ng
 RT: 3.473 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: BN036923.D
 Acq: 28 Apr 2025 11:35

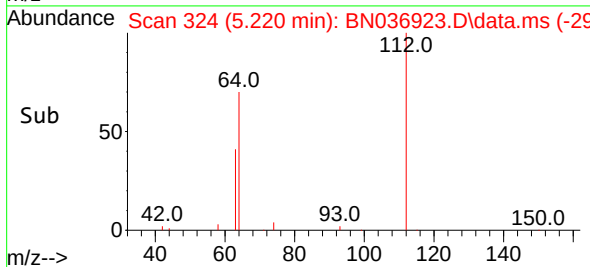
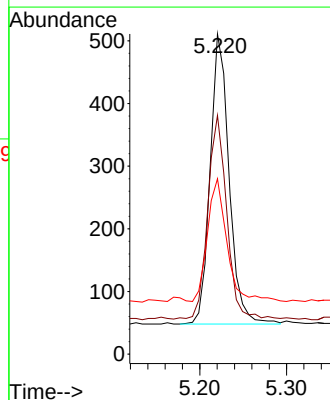
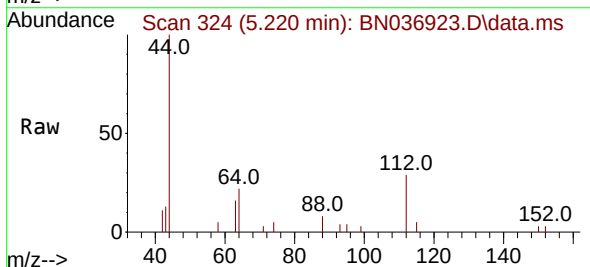
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

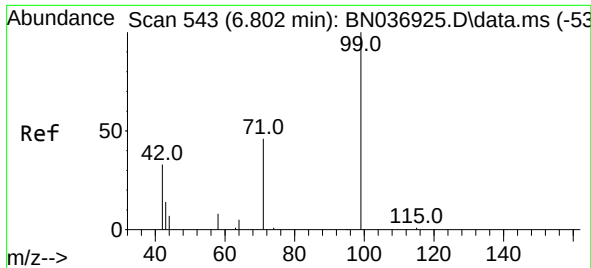
Tgt Ion: 42 Resp: 603
 Ion Ratio Lower Upper
 42 100
 74 80.8 59.9 89.9
 44 15.4 7.5 11.3#



#4
 2-Fluorophenol
 Concen: 0.102 ng
 RT: 5.220 min Scan# 324
 Delta R.T. -0.000 min
 Lab File: BN036923.D
 Acq: 28 Apr 2025 11:35

Tgt Ion: 112 Resp: 701
 Ion Ratio Lower Upper
 112 100
 64 71.9 55.7 83.5
 63 43.5 33.9 50.9

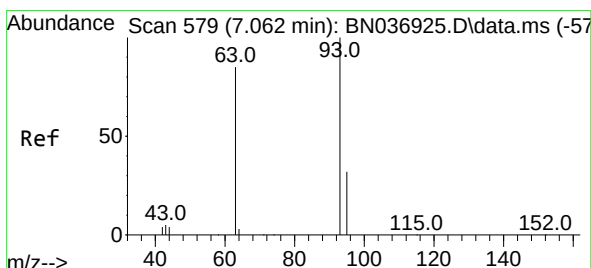
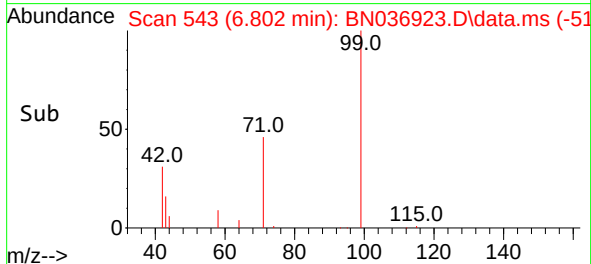
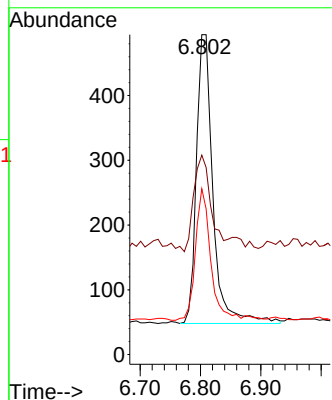
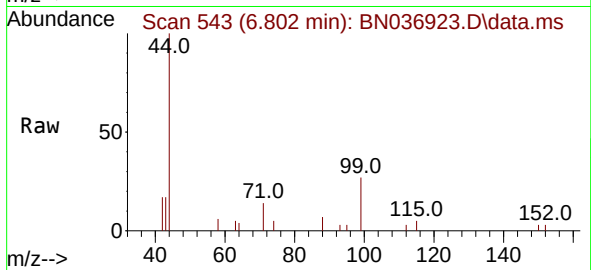




#5
Phenol-d6
Concen: 0.101 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

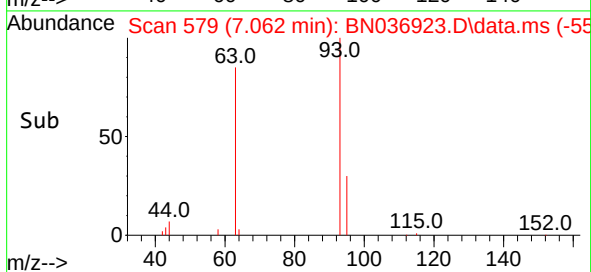
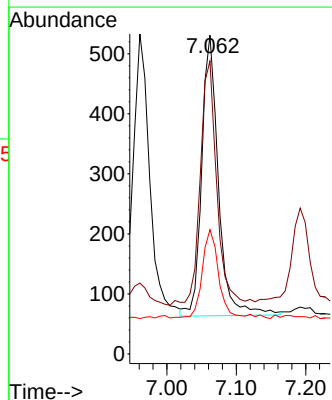
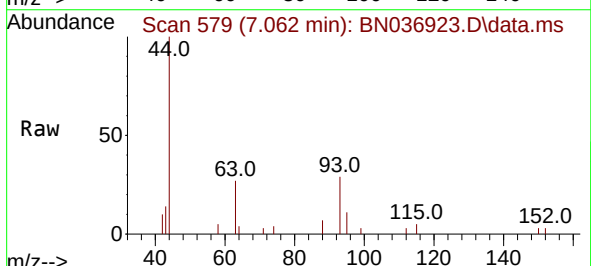
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

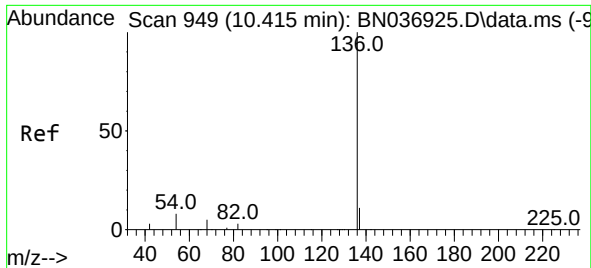
Tgt Ion:	99	Resp:	848
Ion	Ratio	Lower	Upper
99	100		
42	35.0	29.6	44.4
71	41.5	36.0	54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.101 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:	93	Resp:	784
Ion	Ratio	Lower	Upper
93	100		
63	85.7	69.0	103.6
95	29.5	25.4	38.0

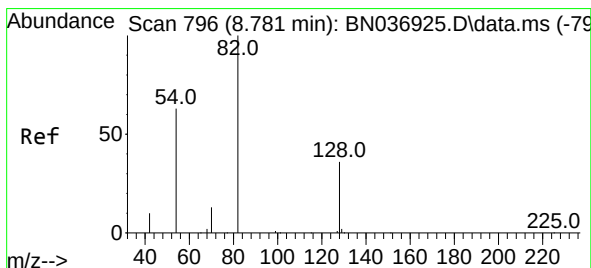
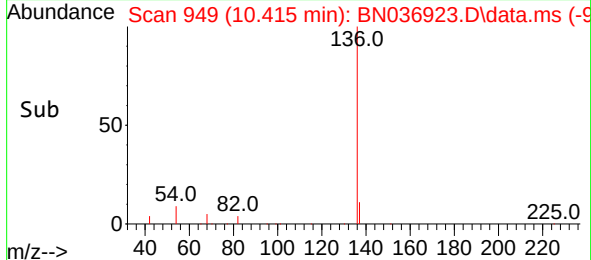
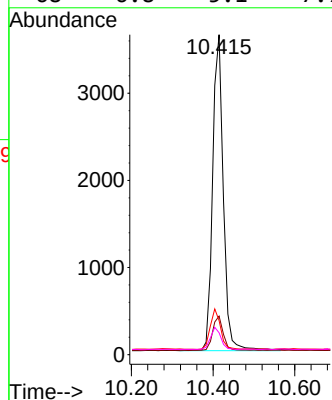
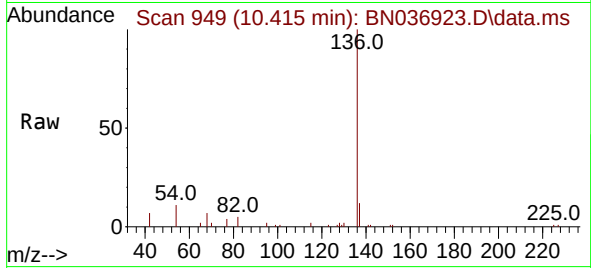




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

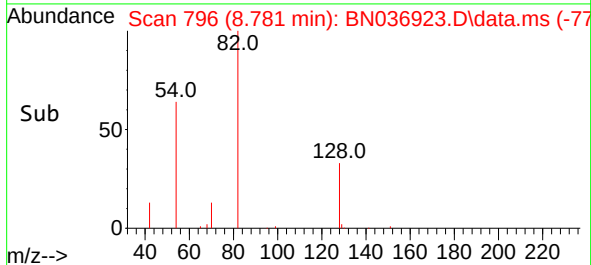
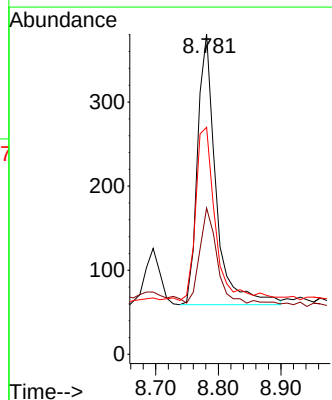
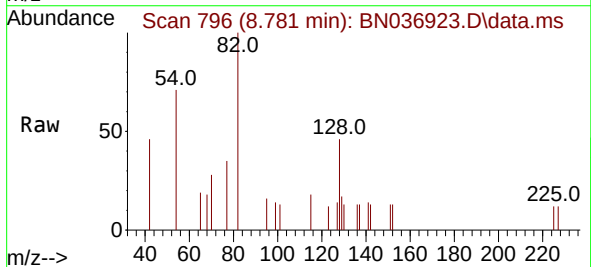
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

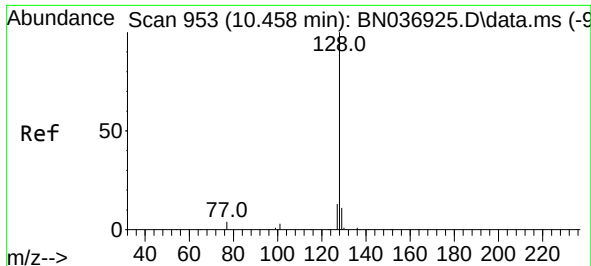
Tgt Ion:	136	Resp:	6571
Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.7	14.5
54	10.6	8.0	12.0
68	6.8	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.096 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:	82	Resp:	657
Ion	Ratio	Lower	Upper
82	100		
128	45.7	30.7	46.1
54	70.9	52.1	78.1

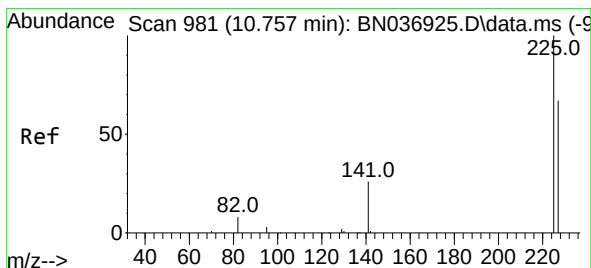
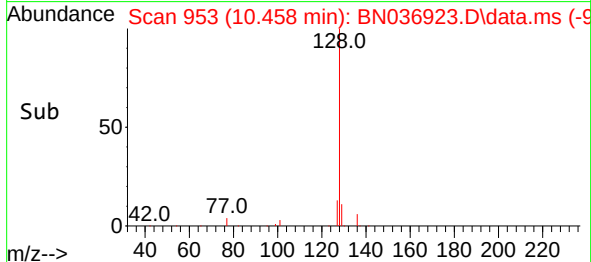
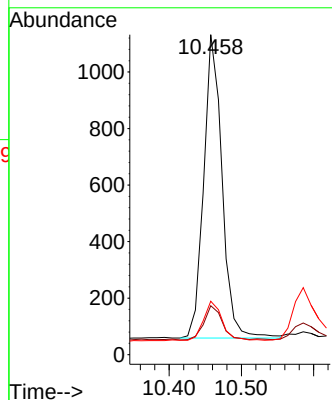
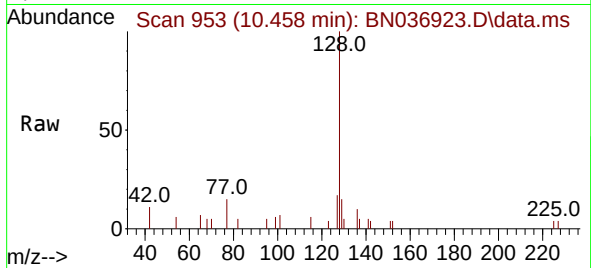




#9
Naphthalene
Concen: 0.099 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

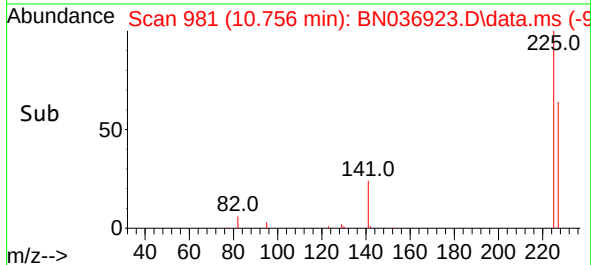
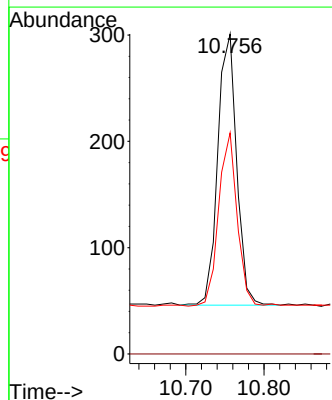
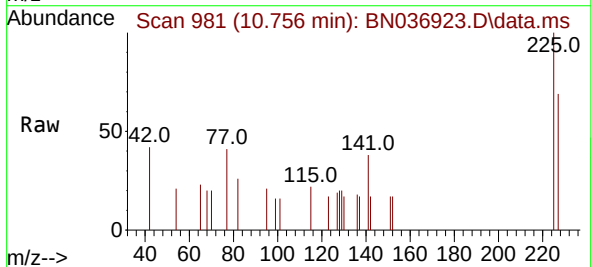
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

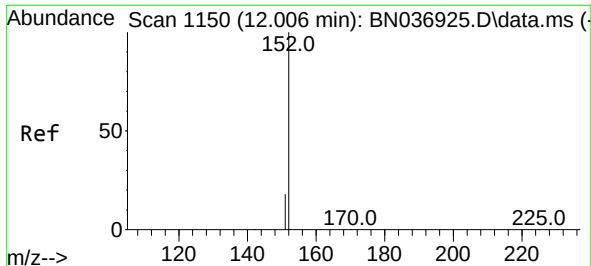
Tgt Ion:128 Resp: 1897
Ion Ratio Lower Upper
128 100
129 15.3 9.8 14.6#
127 16.7 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.102 ng
RT: 10.756 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:225 Resp: 427
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 52.2 78.4

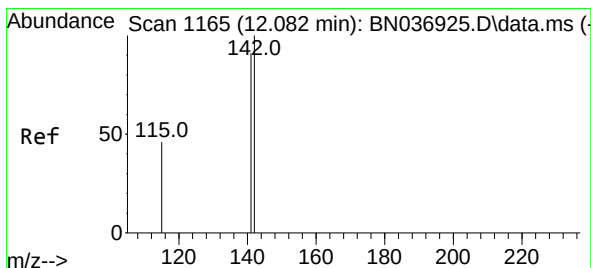
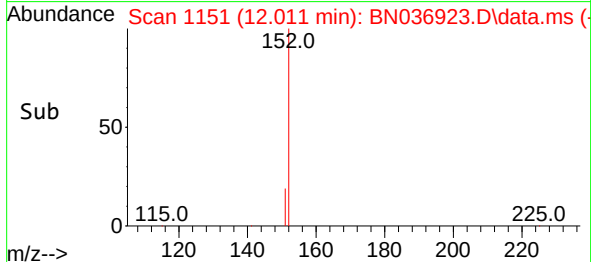
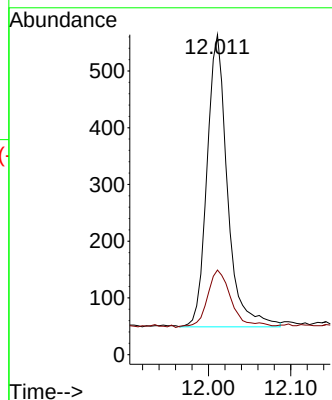
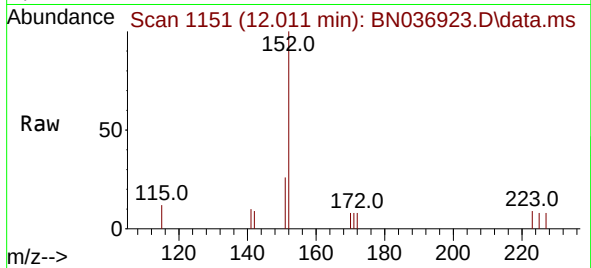




#11
2-Methylnaphthalene-d10
Concen: 0.097 ng
RT: 12.011 min Scan# 1151
Delta R.T. 0.005 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

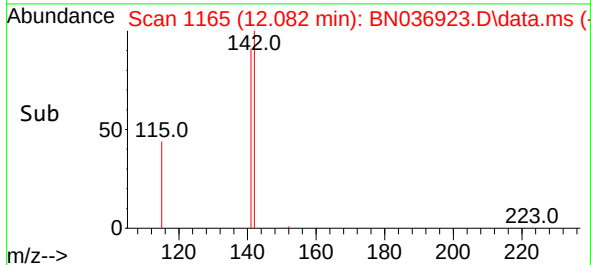
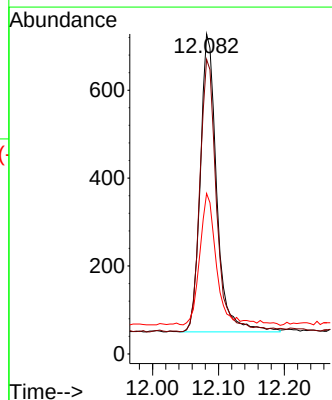
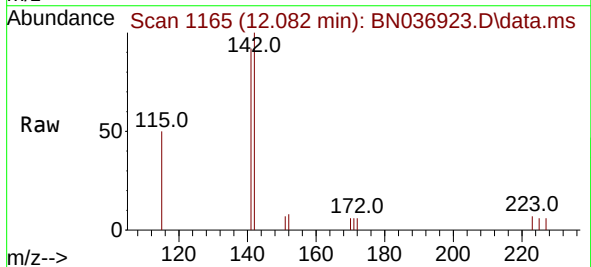
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

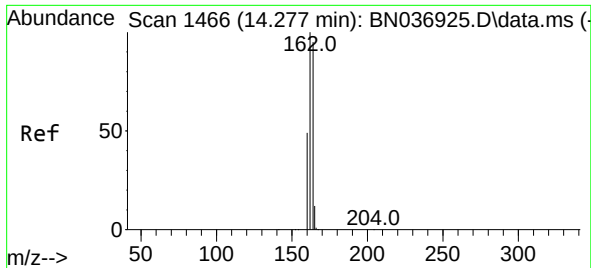
Tgt Ion:152 Resp: 887
Ion Ratio Lower Upper
152 100
151 23.2 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

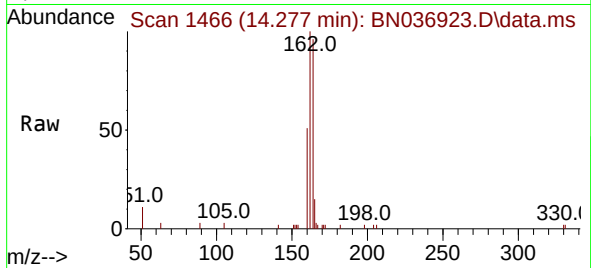
Tgt Ion:142 Resp: 1176
Ion Ratio Lower Upper
142 100
141 92.0 72.8 109.2
115 50.1 38.2 57.4



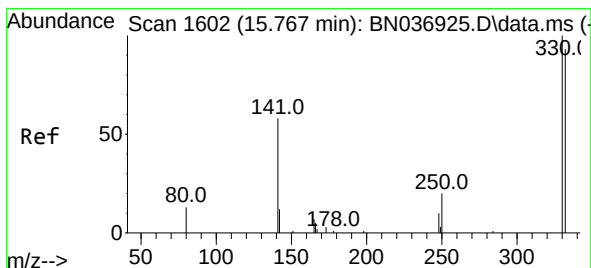
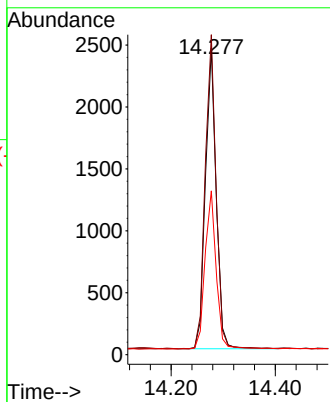
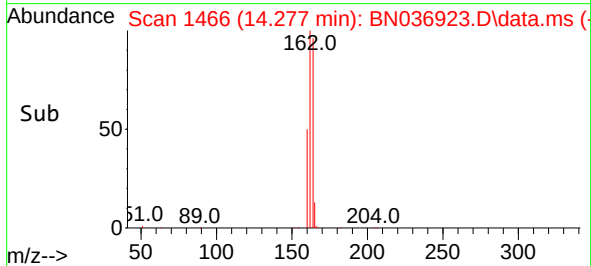


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

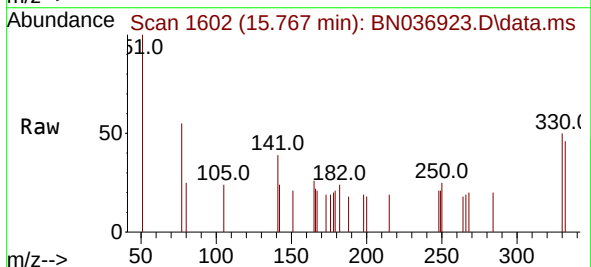
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



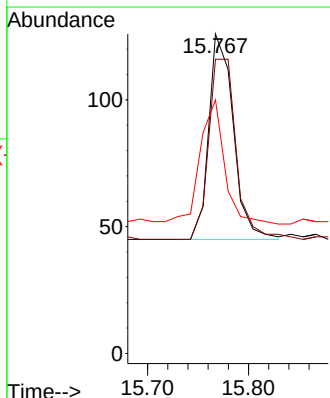
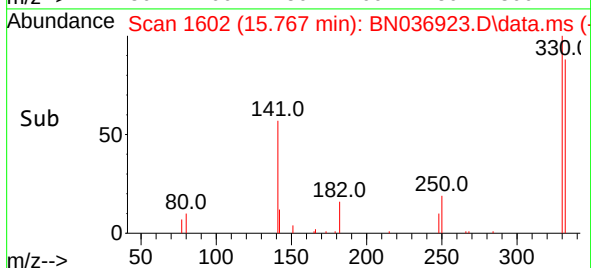
Tgt Ion:164 Resp: 3486
Ion Ratio Lower Upper
164 100
162 104.4 83.8 125.8
160 53.4 42.0 63.0

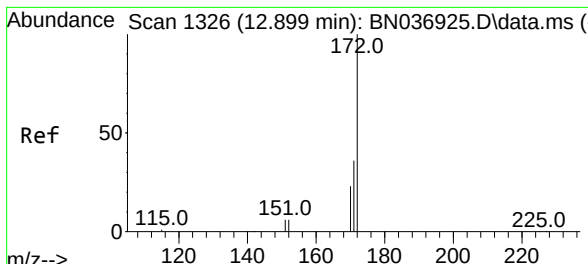


#14
2,4,6-Tribromophenol
Concen: 0.089 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35



Tgt Ion:330 Resp: 136
Ion Ratio Lower Upper
330 100
332 99.3 76.3 114.5
141 61.0 45.4 68.2

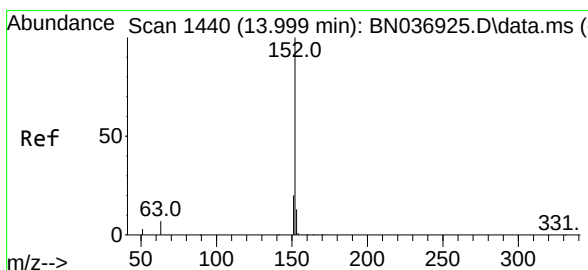
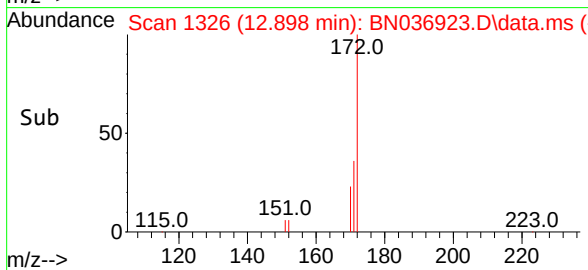
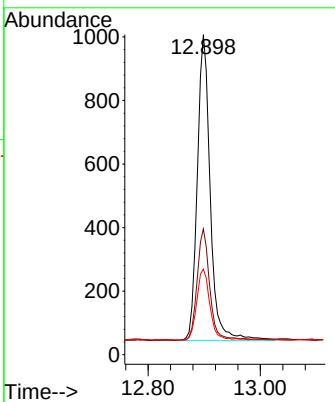
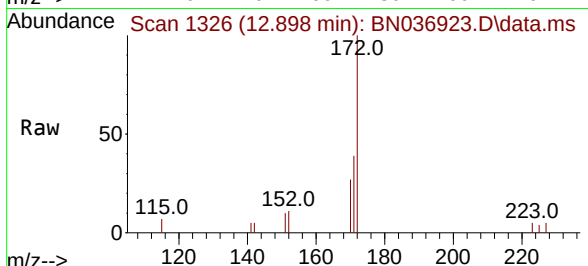




#15
 2-Fluorobiphenyl
 Concen: 0.097 ng
 RT: 12.898 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN036923.D
 Acq: 28 Apr 2025 11:35

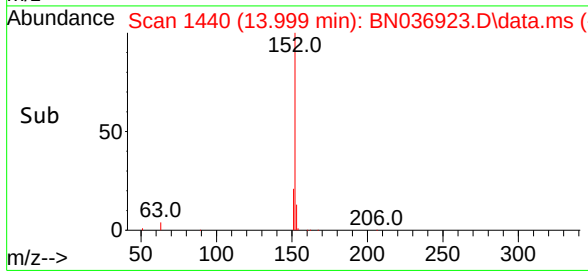
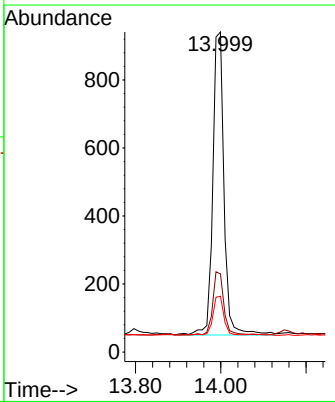
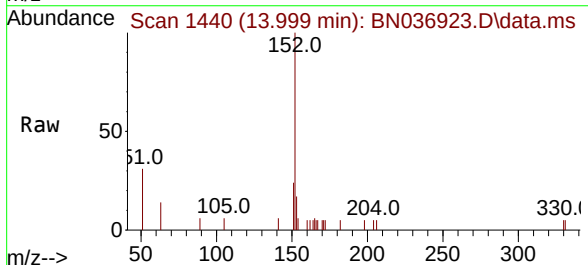
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

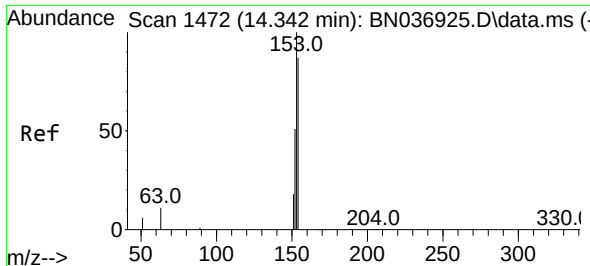
Tgt Ion:	172	Resp:	1636
Ion Ratio	Lower	Upper	
172	100		
171	39.3	29.4	44.0
170	26.7	19.4	29.0



#16
 Acenaphthylene
 Concen: 0.097 ng
 RT: 13.999 min Scan# 1440
 Delta R.T. -0.000 min
 Lab File: BN036923.D
 Acq: 28 Apr 2025 11:35

Tgt Ion:	152	Resp:	1635
Ion Ratio	Lower	Upper	
152	100		
151	20.0	16.0	24.0
153	12.7	10.2	15.2

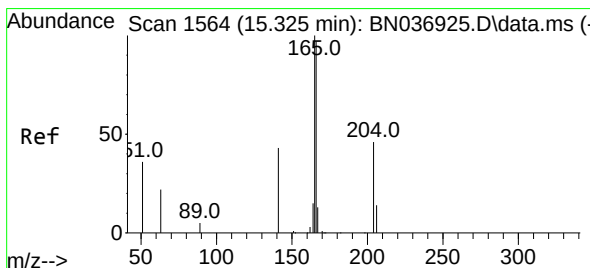
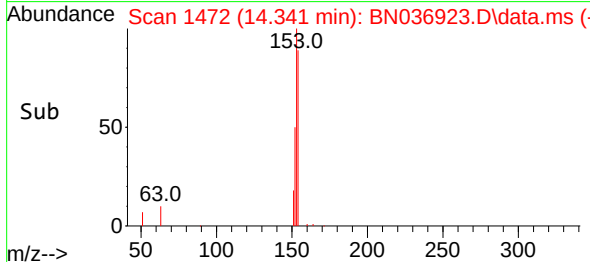
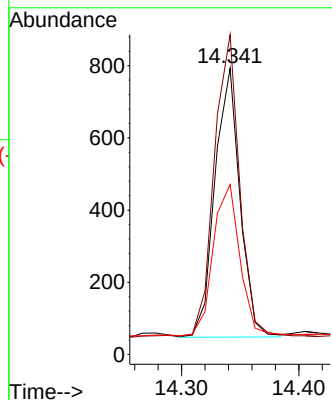
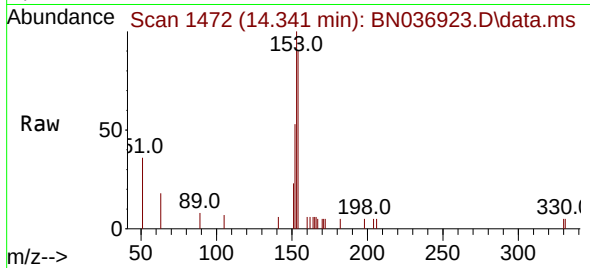




#17
Acenaphthene
Concen: 0.099 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

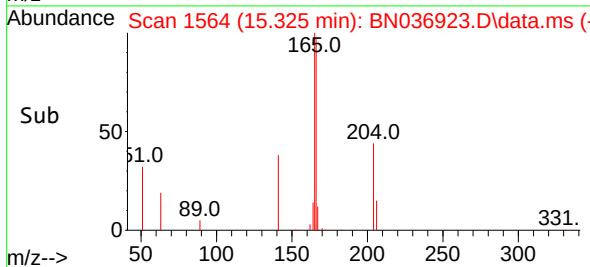
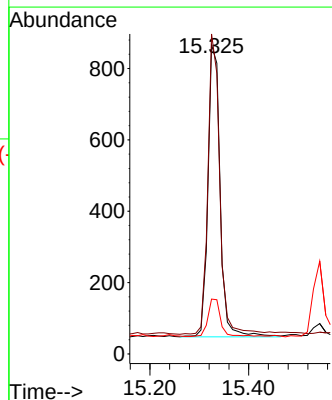
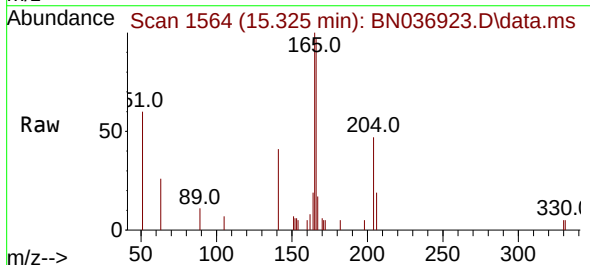
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

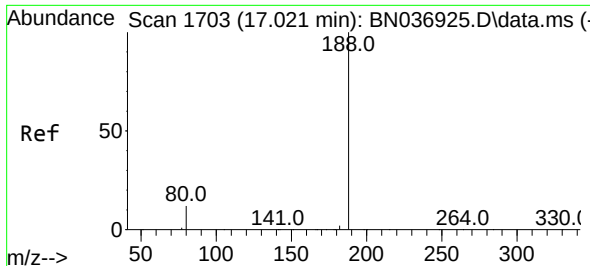
Tgt Ion:154 Resp: 1102
Ion Ratio Lower Upper
154 100
153 115.4 93.4 140.2
152 60.2 49.5 74.3



#18
Fluorene
Concen: 0.096 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:166 Resp: 1398
Ion Ratio Lower Upper
166 100
165 99.7 80.8 121.2
167 13.4 10.8 16.2

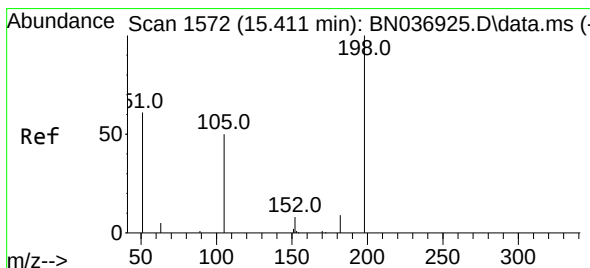
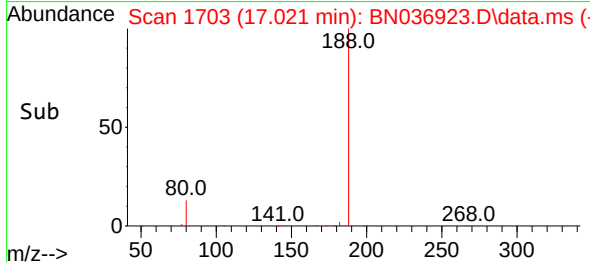
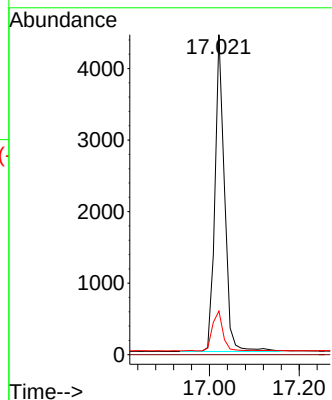
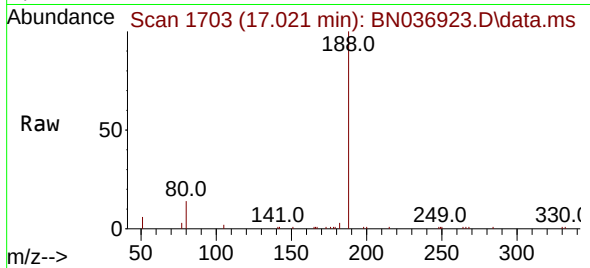




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

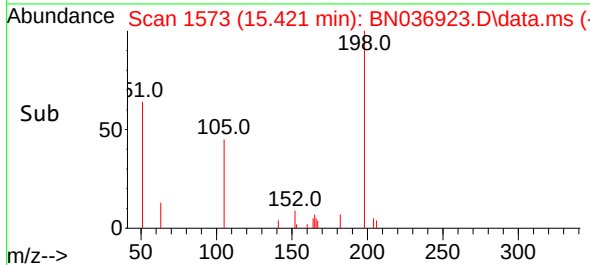
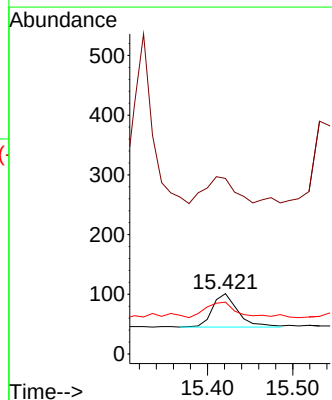
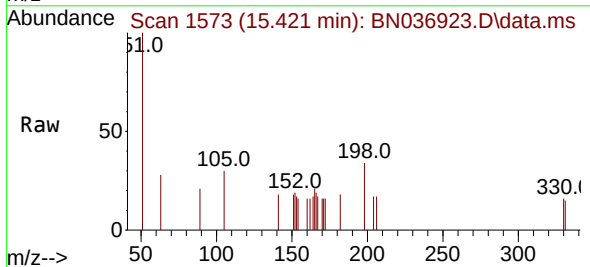
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

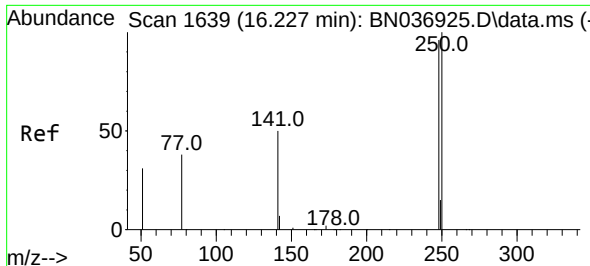
Tgt Ion:188 Resp: 6515
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.7 10.7 16.1



#20
4,6-Dinitro-2-methylphenol
Concen: 0.072 ng
RT: 15.421 min Scan# 1573
Delta R.T. 0.010 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:198 Resp: 117
Ion Ratio Lower Upper
198 100
51 291.1 97.9 146.9#
105 86.1 50.0 75.0#

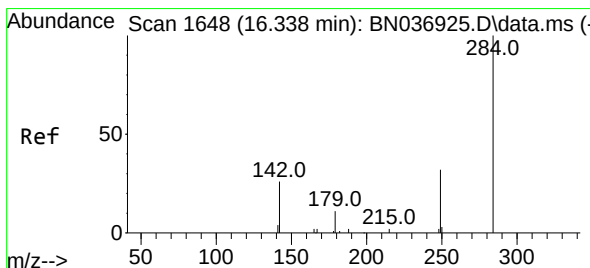
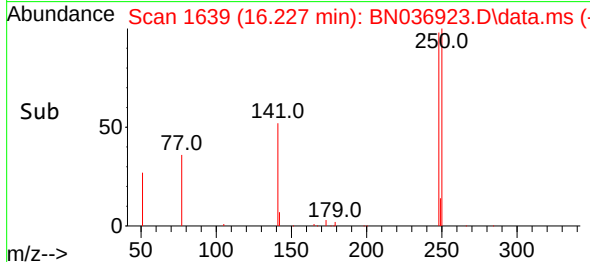
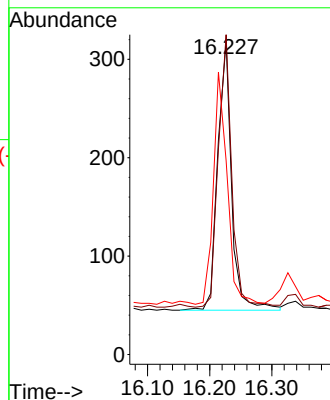
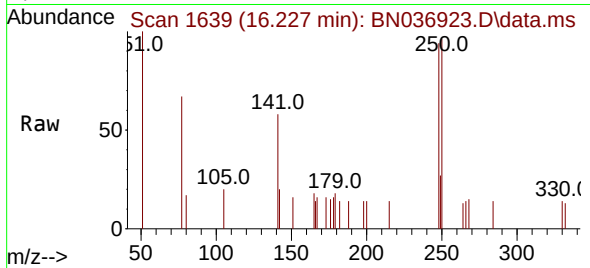




#21
4-Bromophenyl-phenylether
Concen: 0.098 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

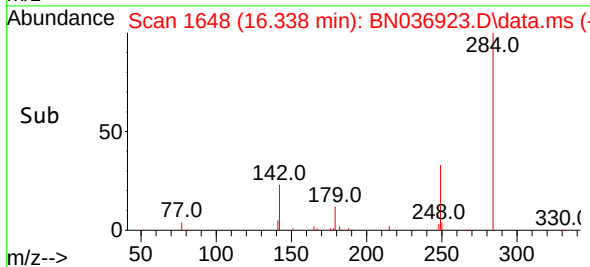
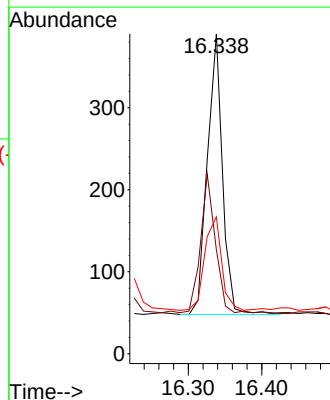
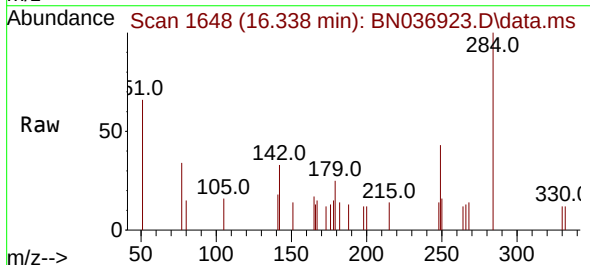
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

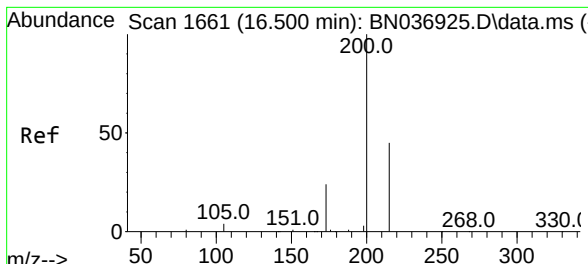
Tgt Ion:248 Resp: 424
Ion Ratio Lower Upper
248 100
250 102.2 83.7 125.5
141 61.9 43.8 65.8



#22
Hexachlorobenzene
Concen: 0.102 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:284 Resp: 490
Ion Ratio Lower Upper
284 100
142 51.0 40.0 60.0
249 37.8 28.2 42.2

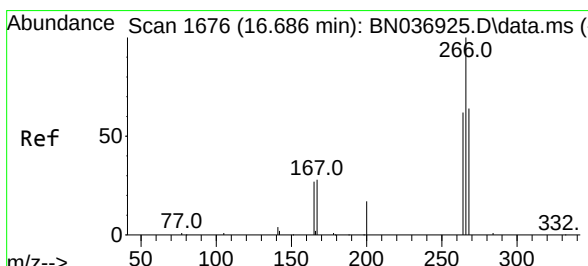
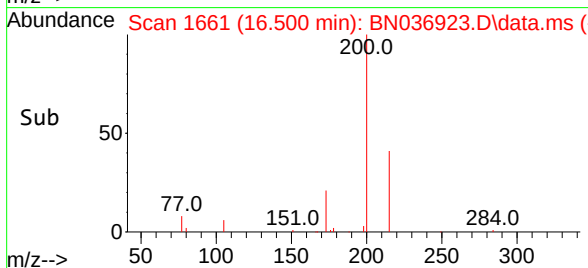
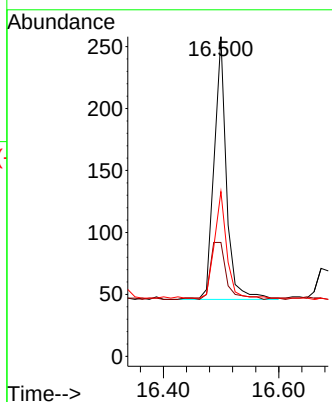
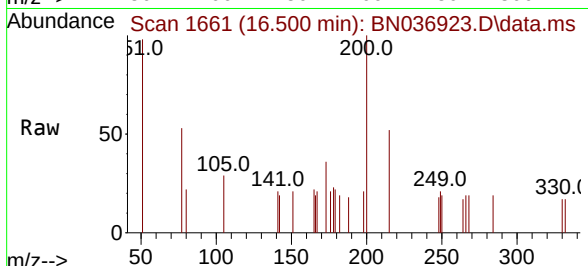




#23
Atrazine
 Concen: 0.092 ng
 RT: 16.500 min Scan# 1661
 Delta R.T. -0.000 min
 Lab File: BN036923.D
 Acq: 28 Apr 2025 11:35

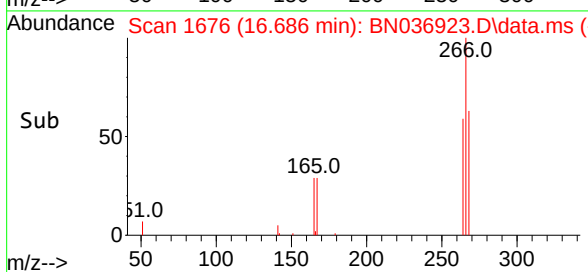
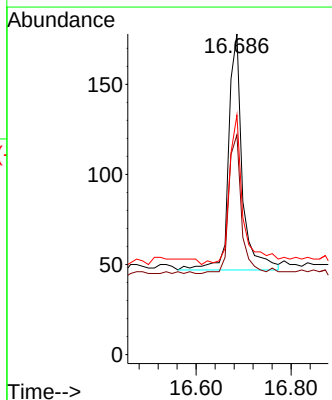
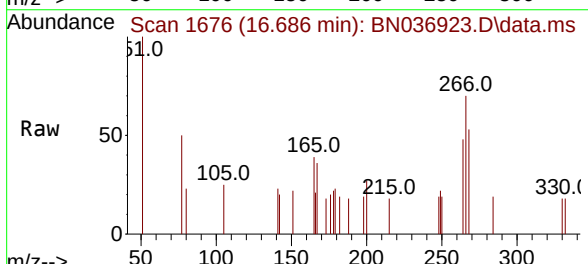
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

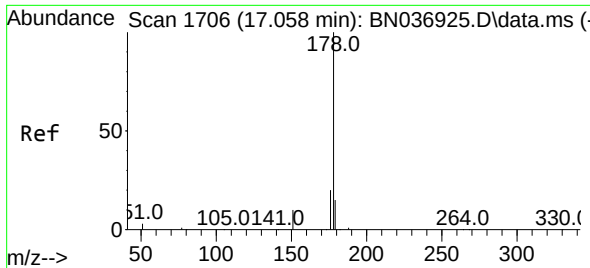
Tgt Ion:	200	Resp:	314
Ion Ratio	Lower	Upper	
200	100		
173	35.7	22.4	33.6
215	51.6	38.6	57.8



#24
Pentachlorophenol
 Concen: 0.105 ng
 RT: 16.686 min Scan# 1676
 Delta R.T. -0.000 min
 Lab File: BN036923.D
 Acq: 28 Apr 2025 11:35

Tgt Ion:	266	Resp:	261
Ion Ratio	Lower	Upper	
266	100		
264	54.0	49.9	74.9
268	61.3	52.2	78.4

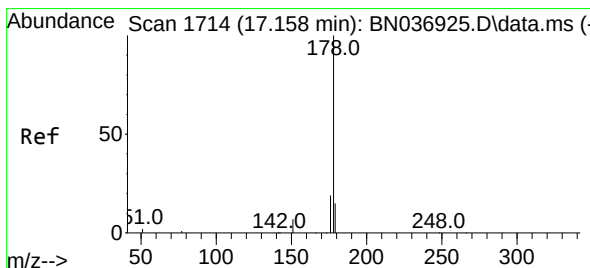
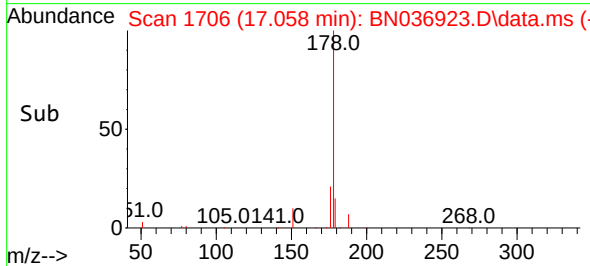
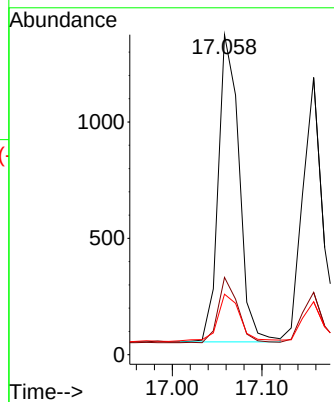
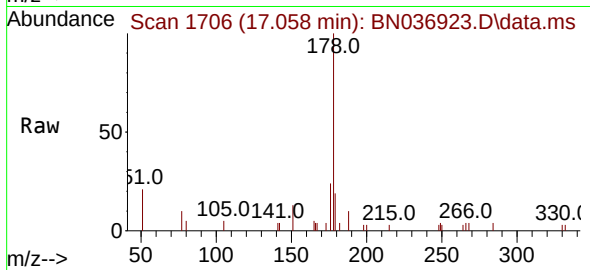




#25
Phenanthrene
Concen: 0.099 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

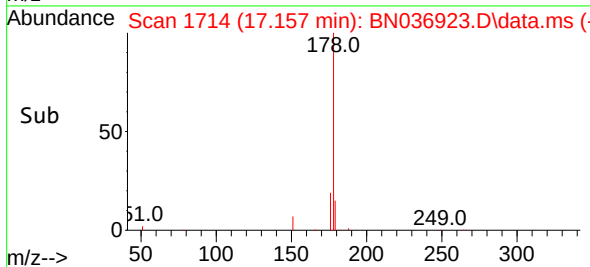
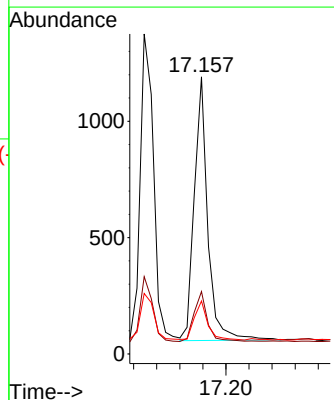
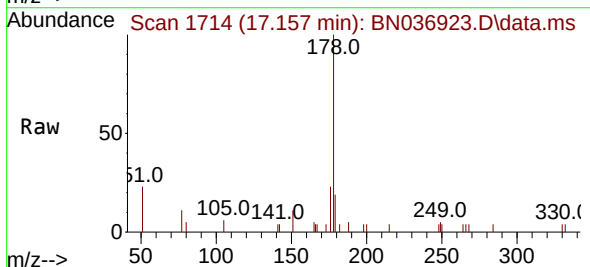
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

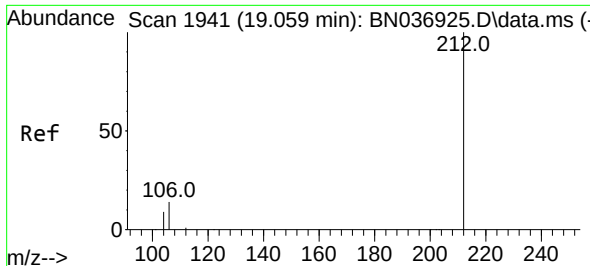
Tgt Ion:178 Resp: 2132
Ion Ratio Lower Upper
178 100
176 19.9 15.7 23.5
179 16.7 12.4 18.6



#26
Anthracene
Concen: 0.096 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:178 Resp: 1842
Ion Ratio Lower Upper
178 100
176 18.8 15.3 22.9
179 15.1 12.1 18.1

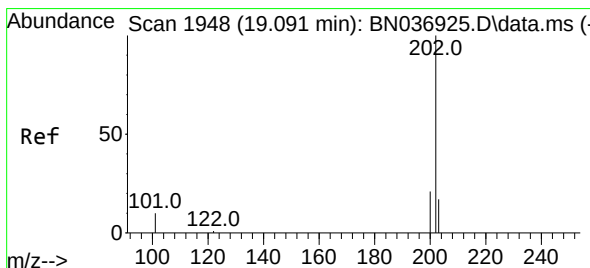
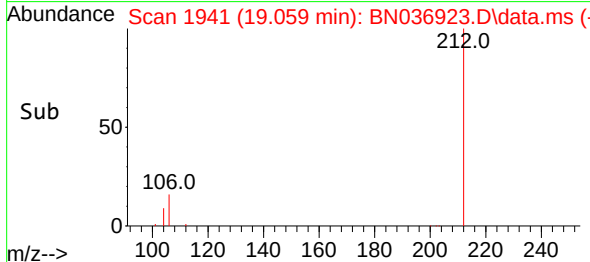
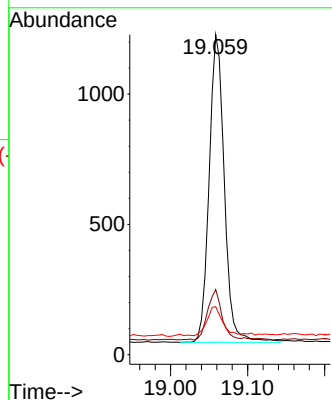
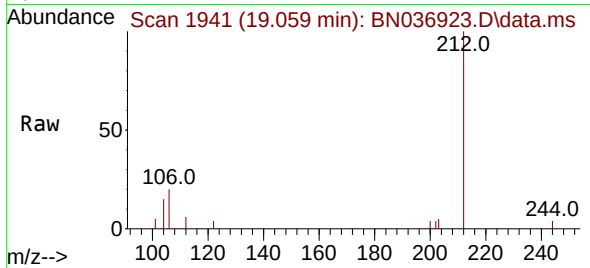




#27
Fluoranthene-d10
Concen: 0.097 ng
RT: 19.059 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

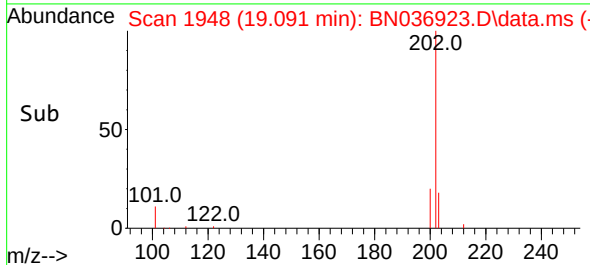
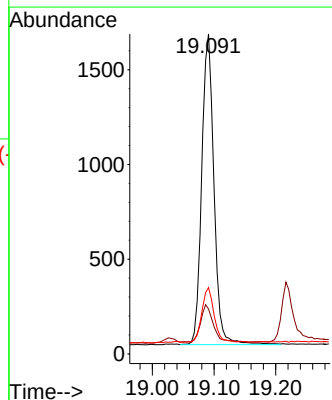
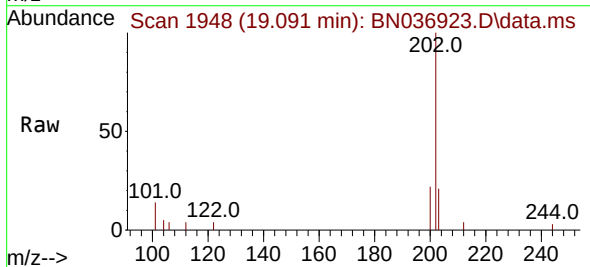
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

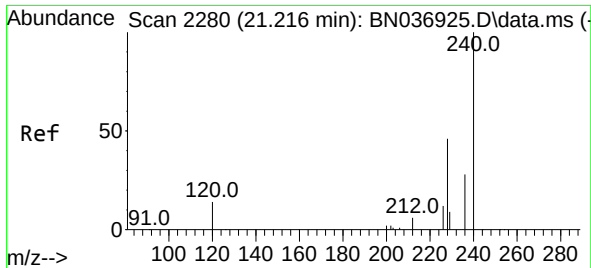
Tgt Ion:212 Resp: 1617
Ion Ratio Lower Upper
212 100
106 16.3 11.6 17.4
104 9.3 7.0 10.4



#28
Fluoranthene
Concen: 0.095 ng
RT: 19.091 min Scan# 1948
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:202 Resp: 2259
Ion Ratio Lower Upper
202 100
101 12.3 8.5 12.7
203 17.9 13.7 20.5

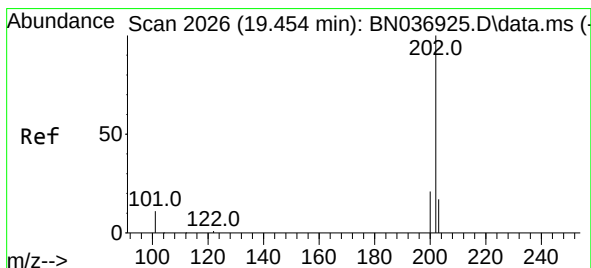
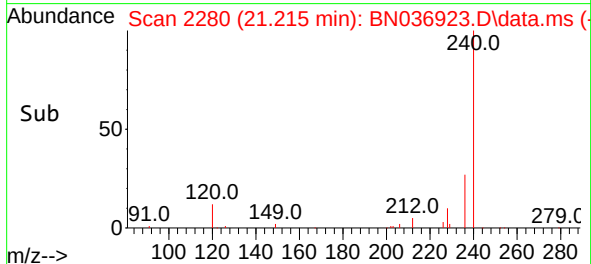
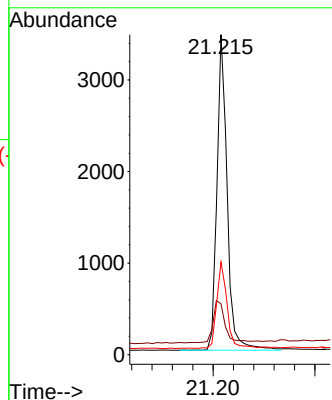
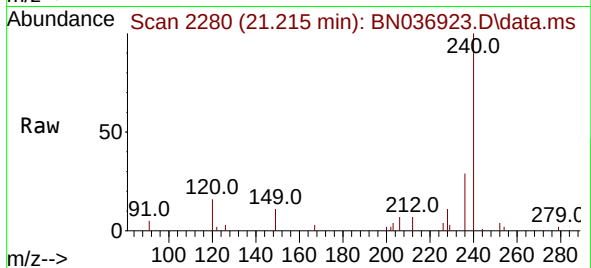




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

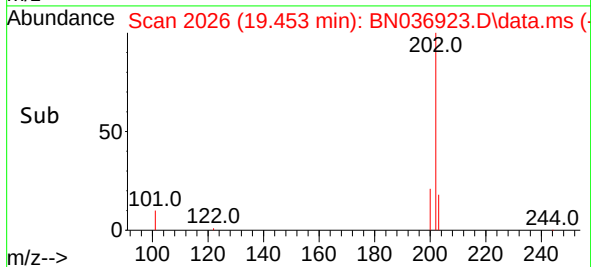
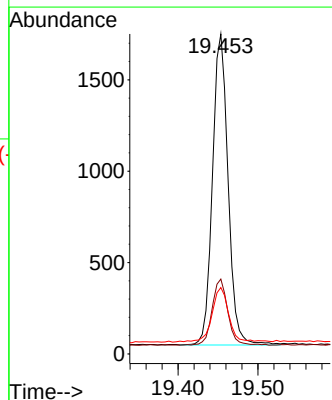
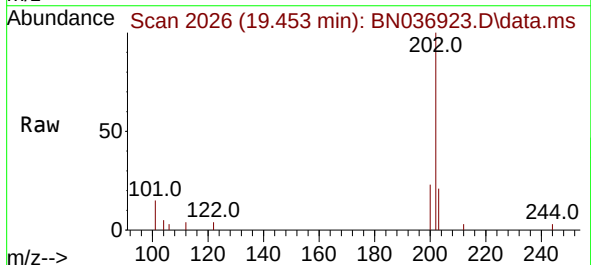
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

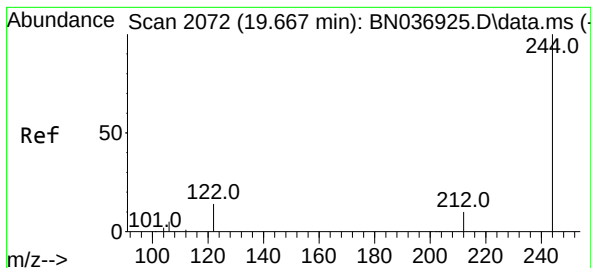
Tgt Ion:240 Resp: 4809
Ion Ratio Lower Upper
240 100
120 15.9 14.1 21.1
236 28.9 23.8 35.8



#30
Pyrene
Concen: 0.099 ng
RT: 19.453 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:202 Resp: 2307
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.6
203 19.4 14.0 21.0





#31

Terphenyl-d14

Concen: 0.102 ng

RT: 19.662 min Scan# 2072

Delta R.T. -0.005 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

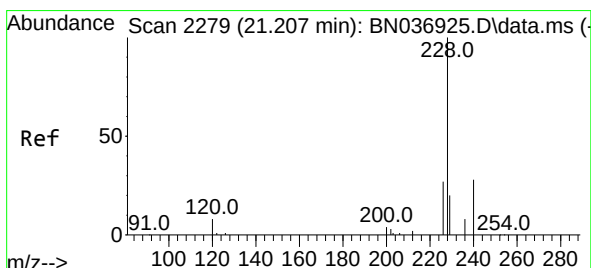
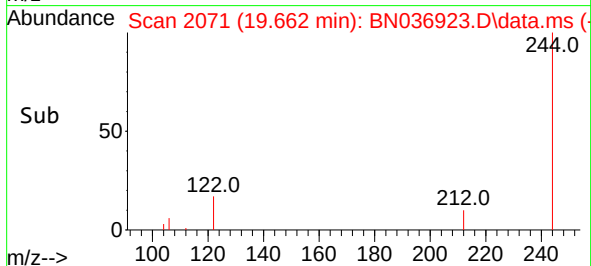
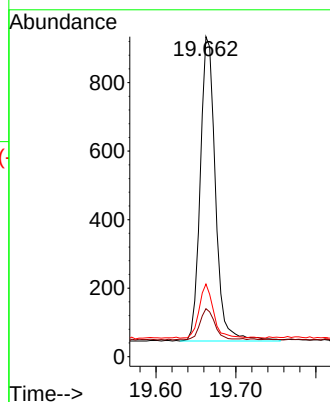
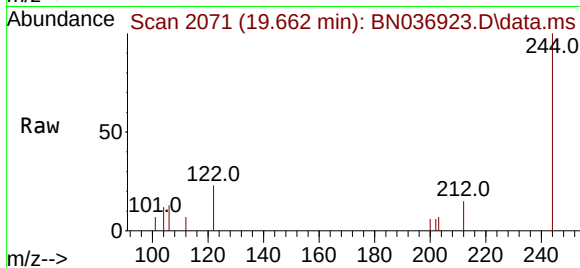
Tgt Ion:244 Resp: 1171

Ion Ratio Lower Upper

244 100

212 15.0 9.6 14.4#

122 22.7 12.7 19.1#



#32

Benzo(a)anthracene

Concen: 0.096 ng

RT: 21.197 min Scan# 2278

Delta R.T. -0.009 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

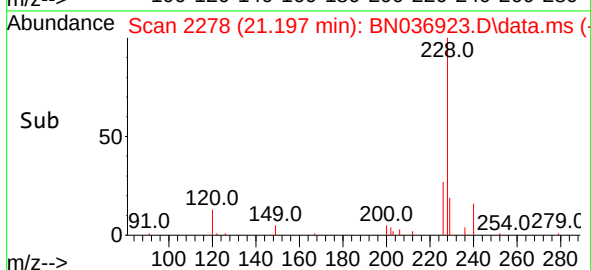
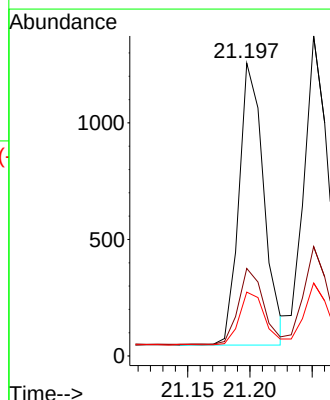
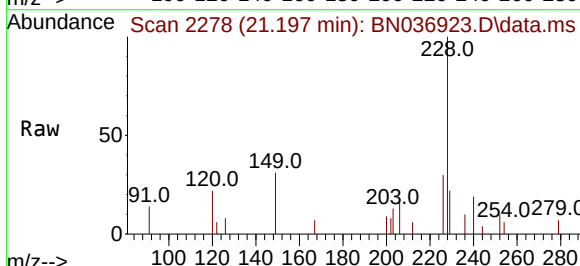
Tgt Ion:228 Resp: 1685

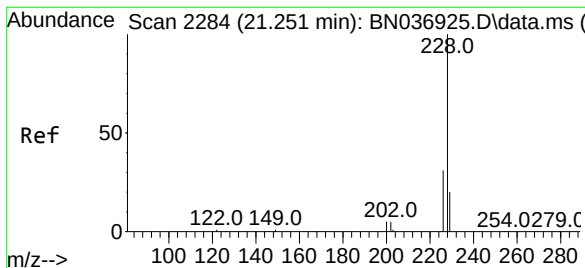
Ion Ratio Lower Upper

228 100

226 29.9 22.2 33.4

229 21.8 16.4 24.6





#33

Chrysene

Concen: 0.095 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

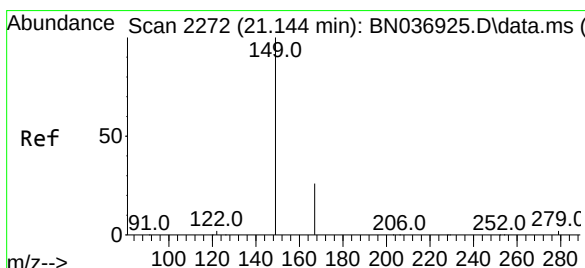
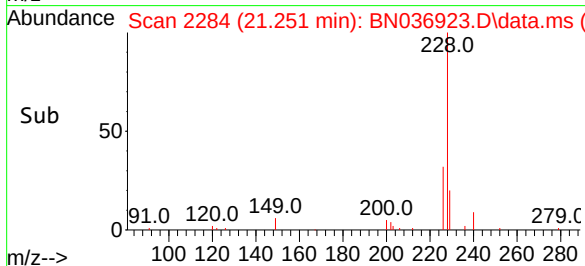
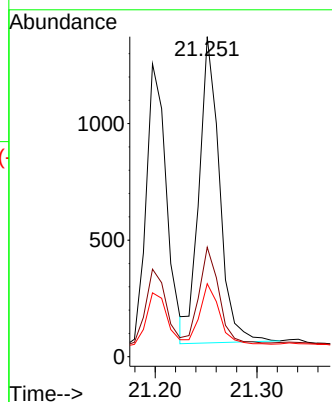
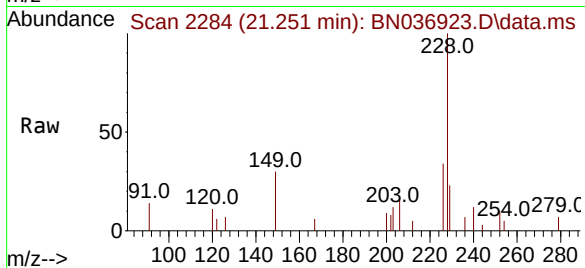
Tgt Ion:228 Resp: 1824

Ion Ratio Lower Upper

228 100

226 34.2 25.5 38.3

229 22.8 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.114 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

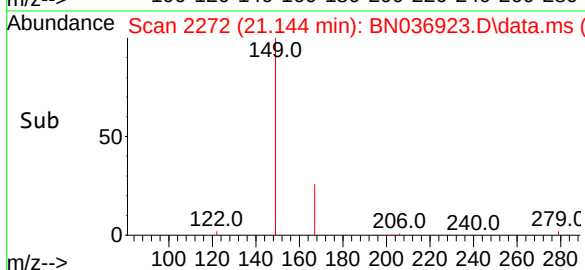
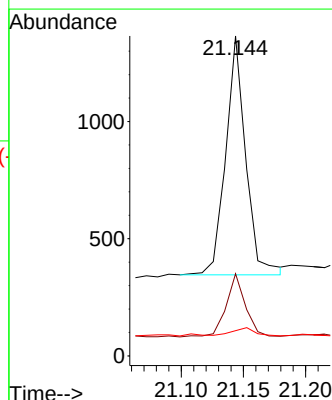
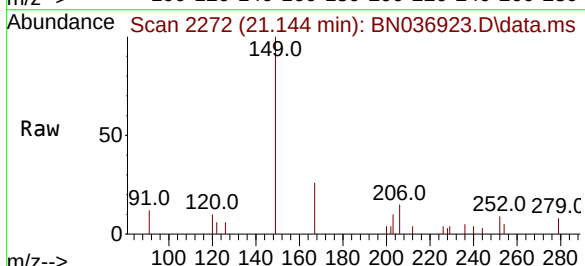
Tgt Ion:149 Resp: 1141

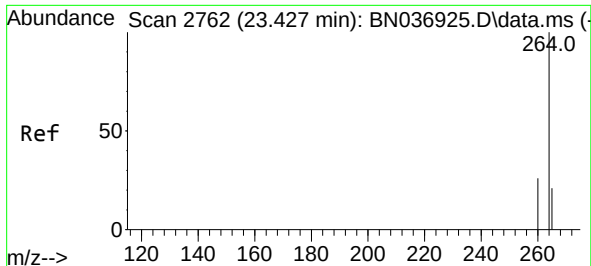
Ion Ratio Lower Upper

149 100

167 25.9 21.0 31.6

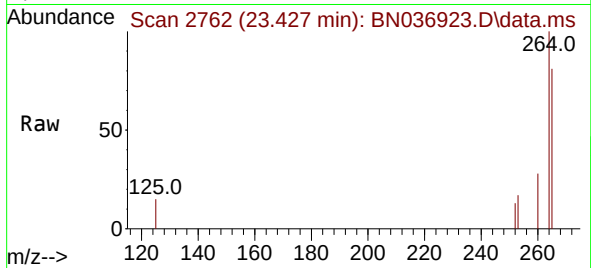
279 3.7 2.7 4.1



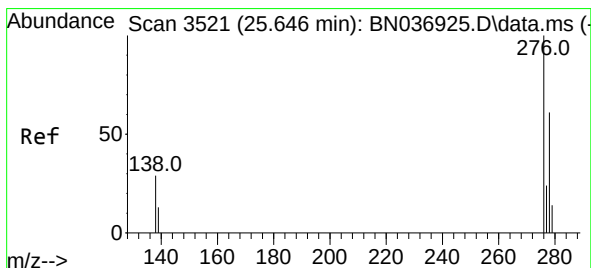
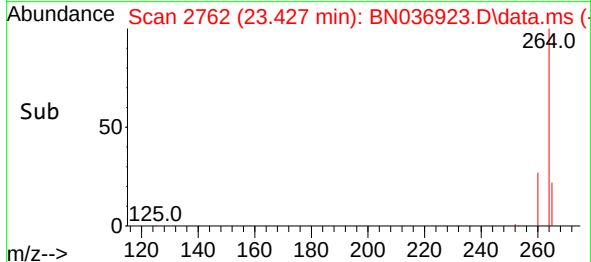
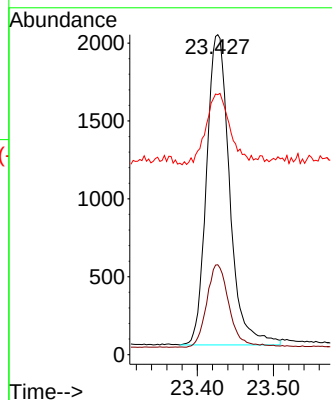


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.427 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036923.D
 Acq: 28 Apr 2025 11:35

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

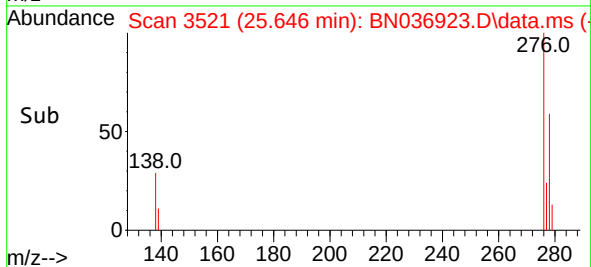
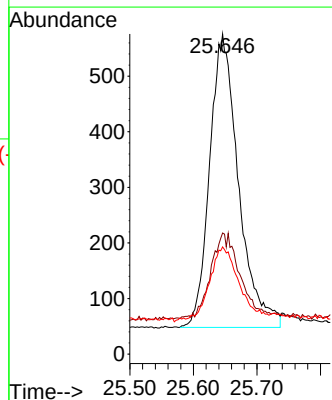
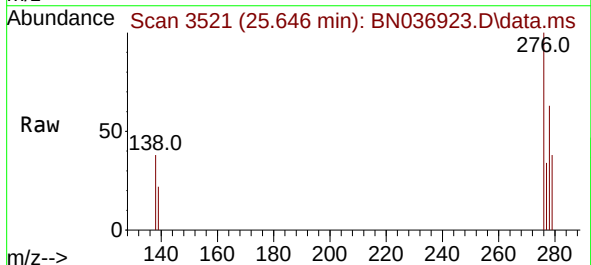


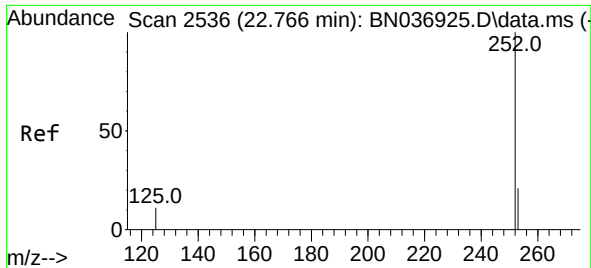
Tgt Ion:264 Resp: 4185
 Ion Ratio Lower Upper
 264 100
 260 28.1 22.2 33.2
 265 81.3 65.8 98.6



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.097 ng
 RT: 25.646 min Scan# 3521
 Delta R.T. -0.000 min
 Lab File: BN036923.D
 Acq: 28 Apr 2025 11:35

Tgt Ion:276 Resp: 1669
 Ion Ratio Lower Upper
 276 100
 138 29.5 23.0 34.6
 277 24.7 20.0 30.0

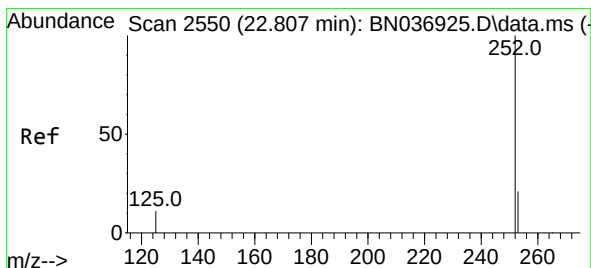
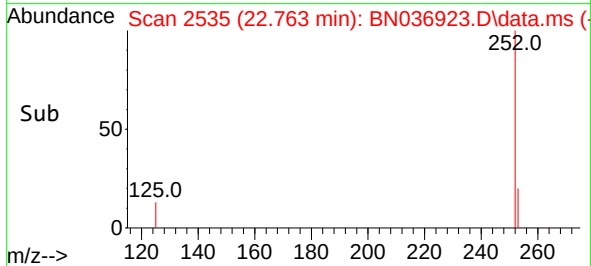
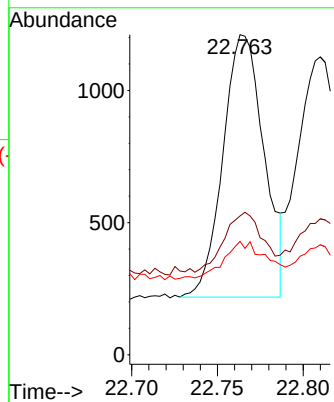
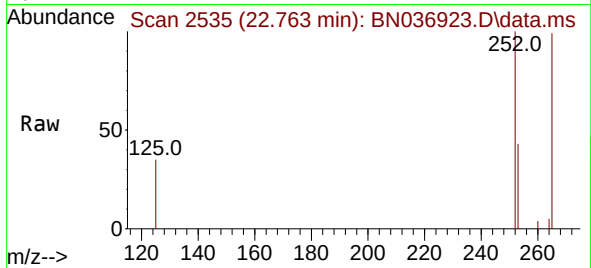




#37
Benzo(b)fluoranthene
Concen: 0.095 ng
RT: 22.763 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

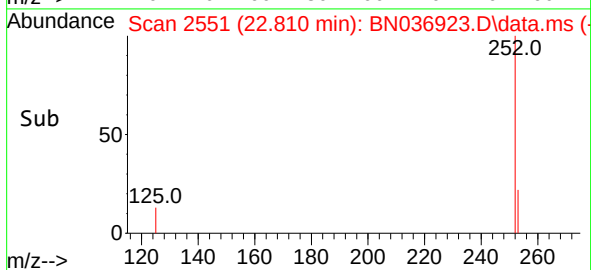
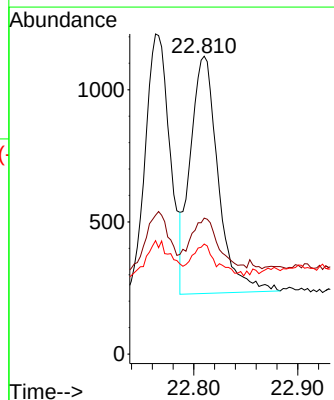
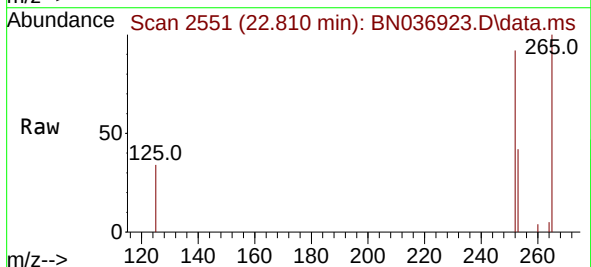
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

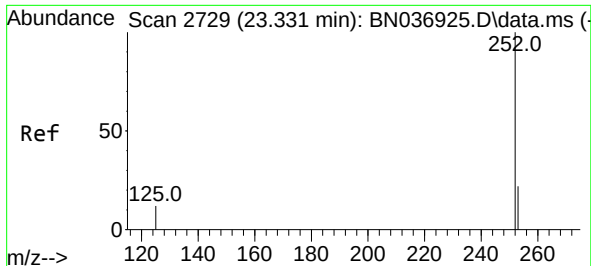
Tgt Ion:252 Resp: 1653
Ion Ratio Lower Upper
252 100
253 43.4 22.1 33.1#
125 35.4 14.2 21.2#



#38
Benzo(k)fluoranthene
Concen: 0.096 ng
RT: 22.810 min Scan# 2551
Delta R.T. 0.003 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:252 Resp: 1675
Ion Ratio Lower Upper
252 100
253 45.6 22.8 34.2#
125 36.9 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 0.096 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036923.D

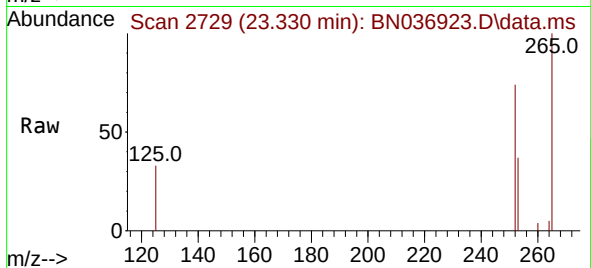
Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



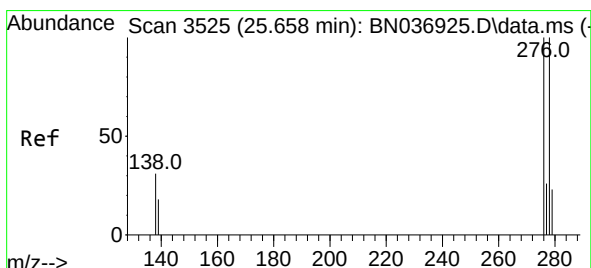
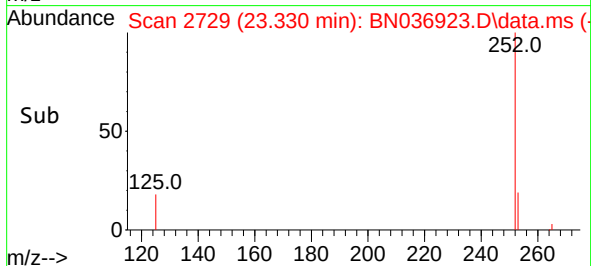
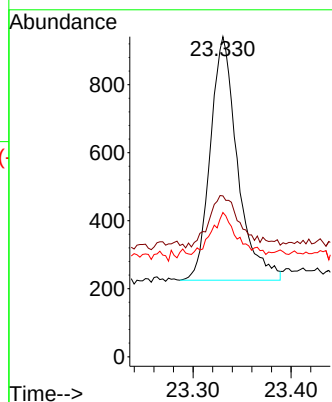
Tgt Ion:252 Resp: 1376

Ion Ratio Lower Upper

252 100

253 50.3 25.9 38.9#

125 45.1 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.095 ng

RT: 25.658 min Scan# 3525

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

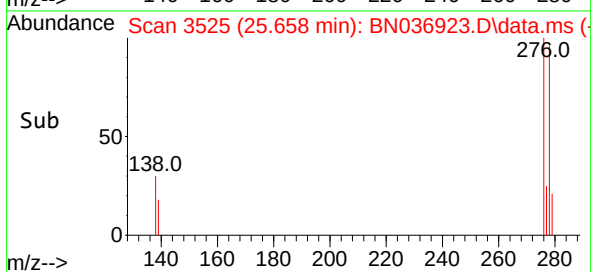
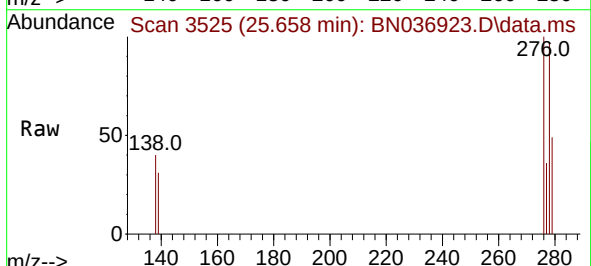
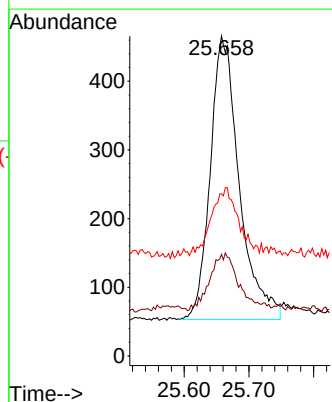
Tgt Ion:278 Resp: 1286

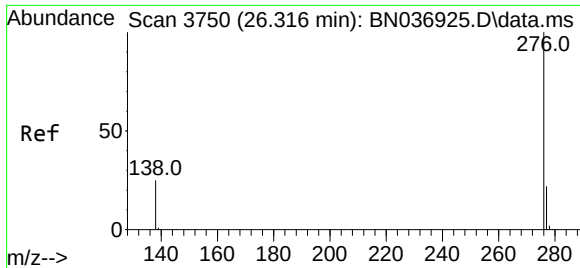
Ion Ratio Lower Upper

278 100

139 31.8 17.4 26.2#

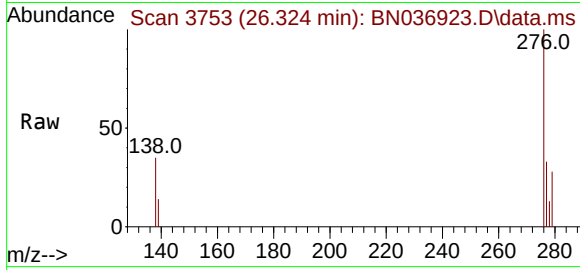
279 50.6 24.9 37.3#



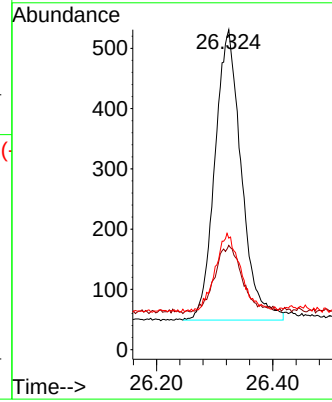
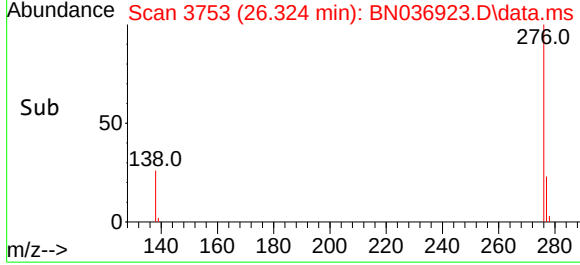


#41
 Benzo(g,h,i)perylene
 Concen: 0.101 ng
 RT: 26.324 min Scan# 31
 Delta R.T. 0.009 min
 Lab File: BN036923.D
 Acq: 28 Apr 2025 11:35

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1



Tgt Ion:276 Resp: 1527
 Ion Ratio Lower Upper
 276 100
 277 32.6 20.2 30.2#
 138 34.8 21.9 32.9#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036924.D
 Acq On : 28 Apr 2025 12:11
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Apr 28 15:12:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

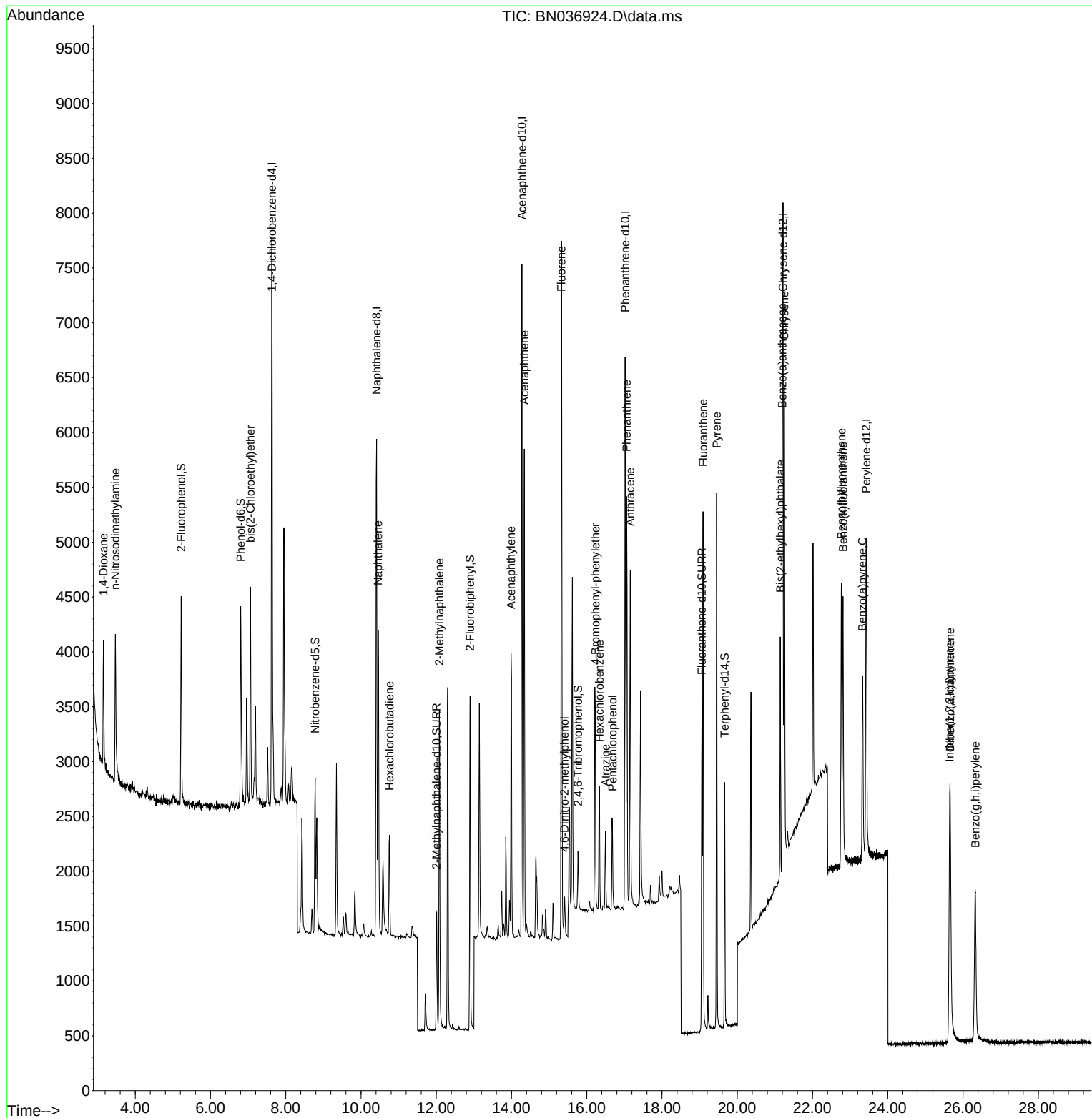
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2482	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6094	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3232	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6237	0.400	ng	0.00
29) Chrysene-d12	21.216	240	4535	0.400	ng	0.00
35) Perylene-d12	23.430	264	4026	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	1310	0.205	ng	0.00
5) Phenol-d6	6.802	99	1535	0.197	ng	0.00
8) Nitrobenzene-d5	8.781	82	1223	0.193	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	1620	0.192	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	279	0.197	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	3191	0.204	ng	0.00
27) Fluoranthene-d10	19.059	212	3130	0.196	ng	0.00
31) Terphenyl-d14	19.667	244	2136	0.198	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	721	0.230	ng	93
3) n-Nitrosodimethylamine	3.473	42	1238	0.204	ng	# 99
6) bis(2-Chloroethyl)ether	7.062	93	1394	0.192	ng	98
9) Naphthalene	10.458	128	3495	0.197	ng	97
10) Hexachlorobutadiene	10.757	225	763	0.197	ng	# 98
12) 2-Methylnaphthalene	12.082	142	2173	0.191	ng	100
16) Acenaphthylene	13.989	152	2990	0.191	ng	100
17) Acenaphthene	14.341	154	2053	0.198	ng	99
18) Fluorene	15.325	166	2605	0.193	ng	99
20) 4,6-Dinitro-2-methylph...	15.411	198	258	0.165	ng	# 57
21) 4-Bromophenyl-phenylether	16.227	248	819	0.197	ng	99
22) Hexachlorobenzene	16.338	284	900	0.196	ng	99
23) Atrazine	16.500	200	618	0.189	ng	98
24) Pentachlorophenol	16.686	266	425	0.178	ng	98
25) Phenanthrene	17.058	178	3972	0.194	ng	100
26) Anthracene	17.158	178	3454	0.188	ng	100
28) Fluoranthene	19.091	202	4305	0.189	ng	99
30) Pyrene	19.454	202	4403	0.200	ng	100
32) Benzo(a)anthracene	21.198	228	3191	0.193	ng	97
33) Chrysene	21.251	228	3574	0.197	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	1921	0.203	ng	98
36) Indeno(1,2,3-cd)pyrene	25.643	276	3163	0.192	ng	99
37) Benzo(b)fluoranthene	22.766	252	3124	0.187	ng	# 88
38) Benzo(k)fluoranthene	22.810	252	3158	0.187	ng	# 87
39) Benzo(a)pyrene	23.328	252	2619	0.190	ng	# 84
40) Dibenzo(a,h)anthracene	25.661	278	2498	0.193	ng	# 88
41) Benzo(g,h,i)perylene	26.327	276	2828	0.195	ng	96

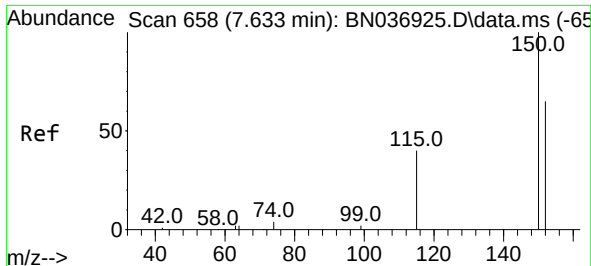
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036924.D
Acq On : 28 Apr 2025 12:11
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

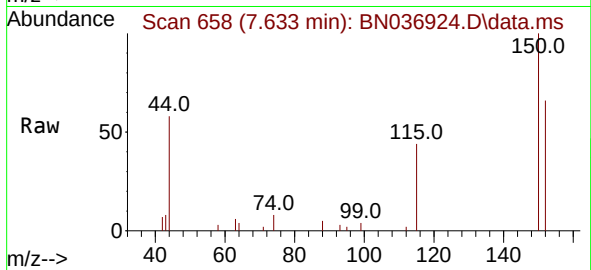
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration



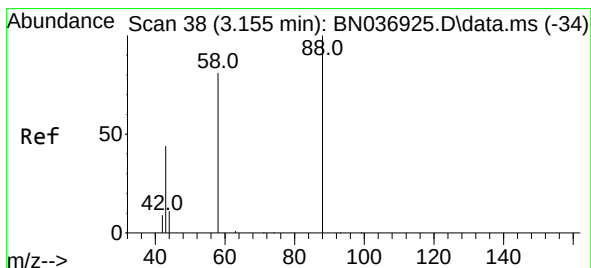
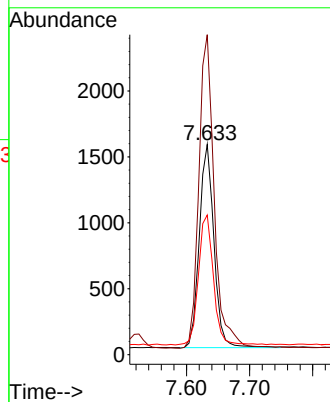
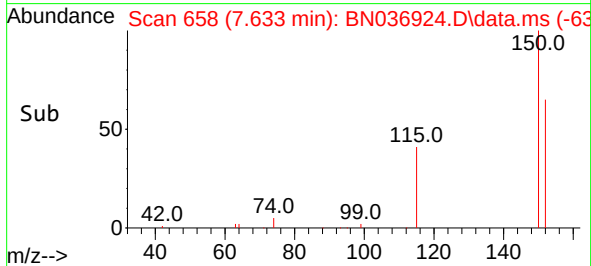


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.633 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN036924.D
 Acq: 28 Apr 2025 12:11

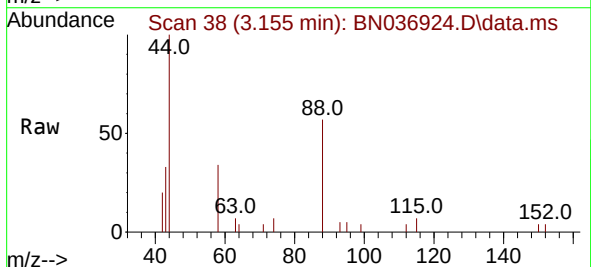
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



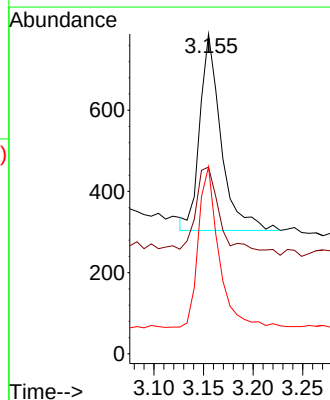
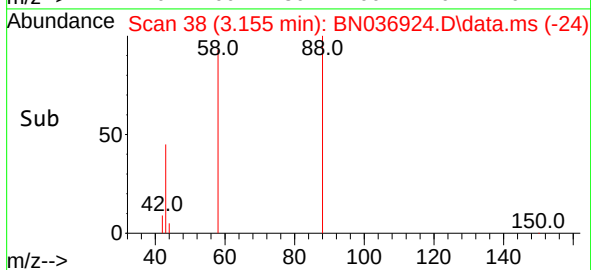
Tgt Ion:152 Resp: 2482
 Ion Ratio Lower Upper
 152 100
 150 152.3 121.1 181.7
 115 66.4 51.8 77.6

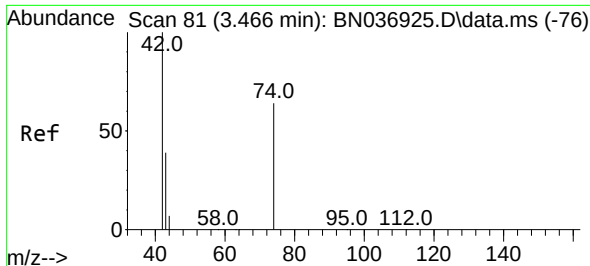


#2
 1,4-Dioxane
 Concen: 0.230 ng
 RT: 3.155 min Scan# 38
 Delta R.T. -0.000 min
 Lab File: BN036924.D
 Acq: 28 Apr 2025 12:11



Tgt Ion: 88 Resp: 721
 Ion Ratio Lower Upper
 88 100
 43 55.9 37.9 56.9
 58 79.5 65.8 98.6

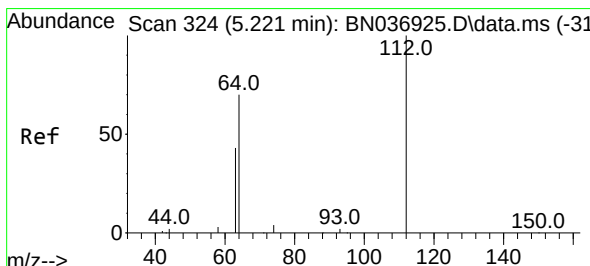
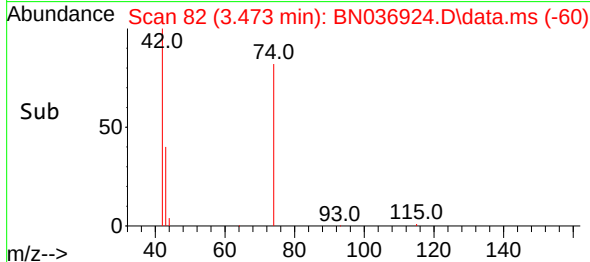
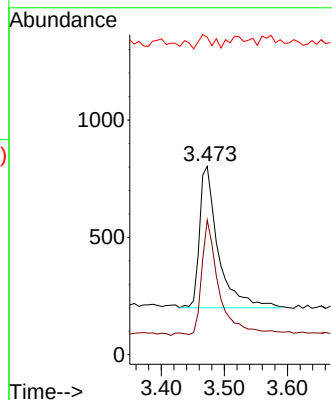
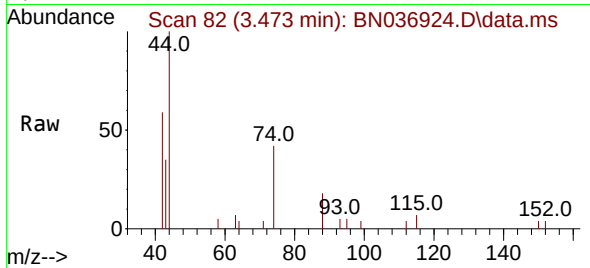




#3
 n-Nitrosodimethylamine
 Concen: 0.204 ng
 RT: 3.473 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: BN036924.D
 Acq: 28 Apr 2025 12:11

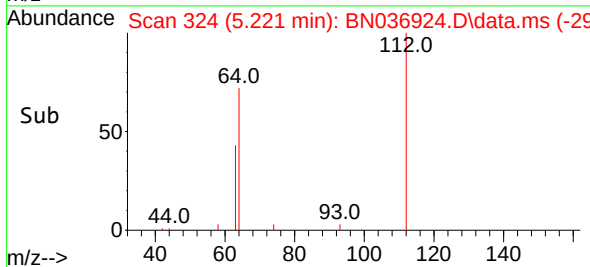
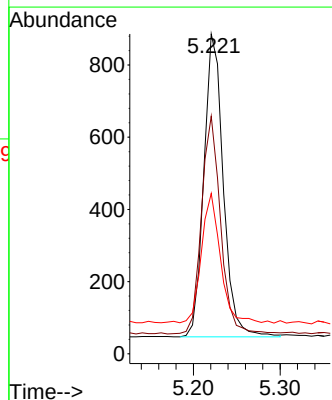
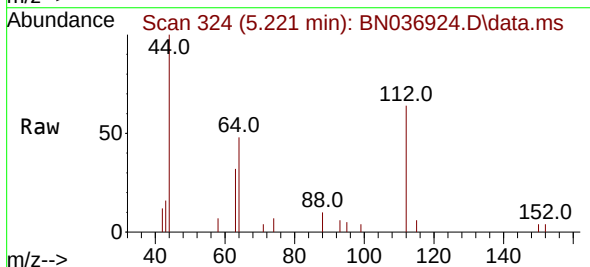
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

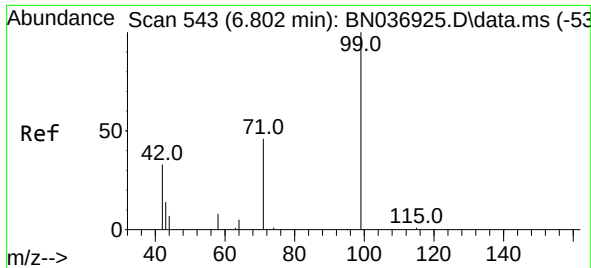
Tgt Ion: 42 Resp: 1238
 Ion Ratio Lower Upper
 42 100
 74 74.2 59.9 89.9
 44 7.1 7.5 11.3#



#4
 2-Fluorophenol
 Concen: 0.205 ng
 RT: 5.221 min Scan# 324
 Delta R.T. -0.000 min
 Lab File: BN036924.D
 Acq: 28 Apr 2025 12:11

Tgt Ion: 112 Resp: 1310
 Ion Ratio Lower Upper
 112 100
 64 70.8 55.7 83.5
 63 42.5 33.9 50.9

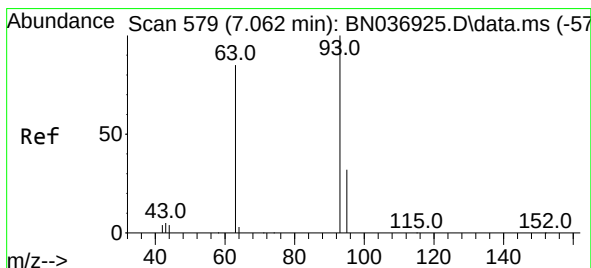
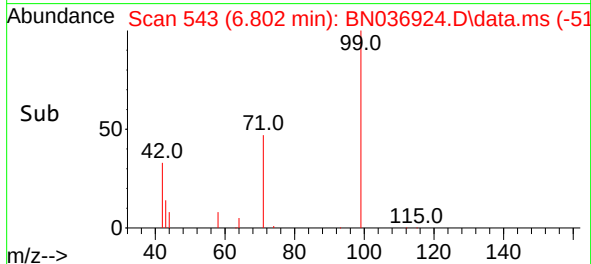
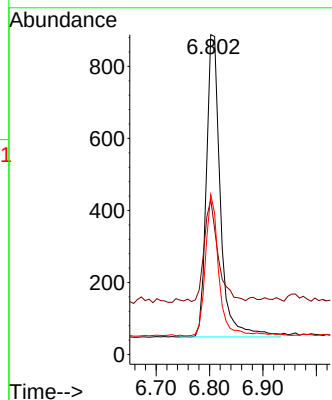
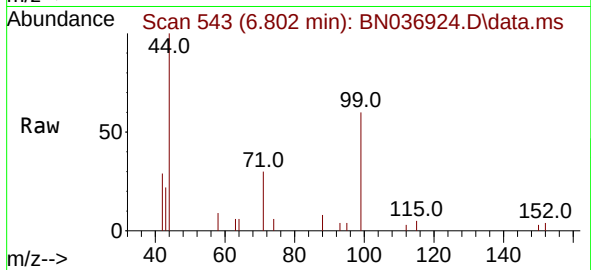




#5
Phenol-d6
Concen: 0.197 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

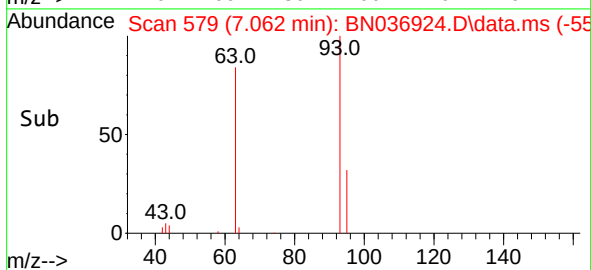
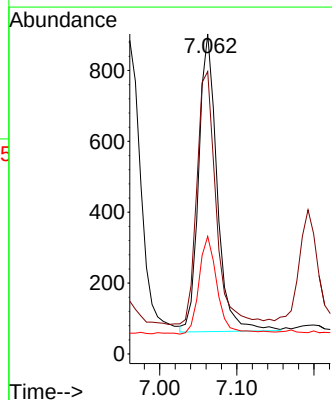
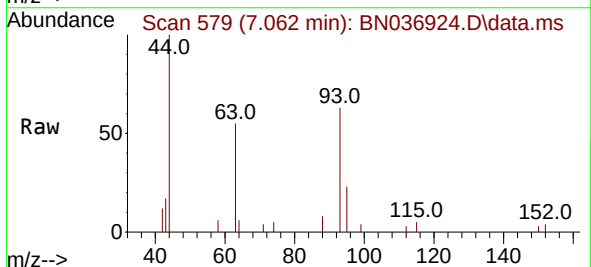
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

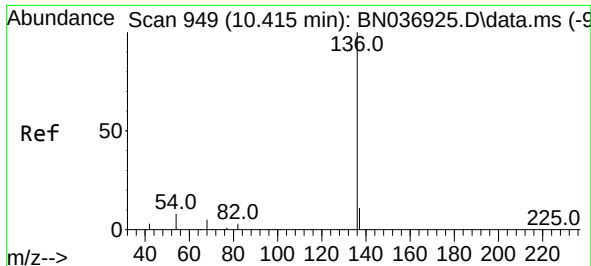
Tgt Ion:	99	Resp:	1535
Ion	Ratio	Lower	Upper
99	100		
42	33.2	29.6	44.4
71	43.6	36.0	54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.192 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:	93	Resp:	1394
Ion	Ratio	Lower	Upper
93	100		
63	88.4	69.0	103.6
95	33.1	25.4	38.0

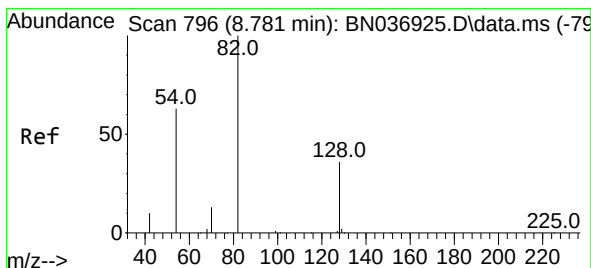
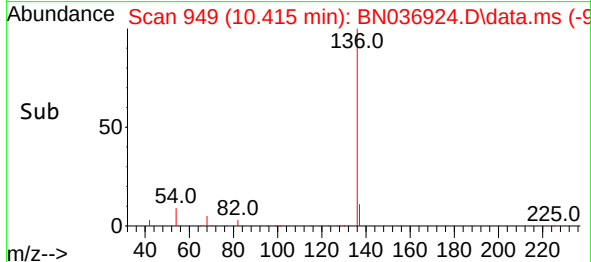
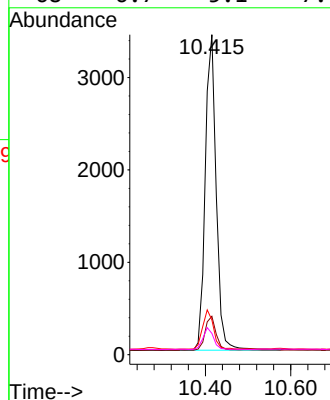
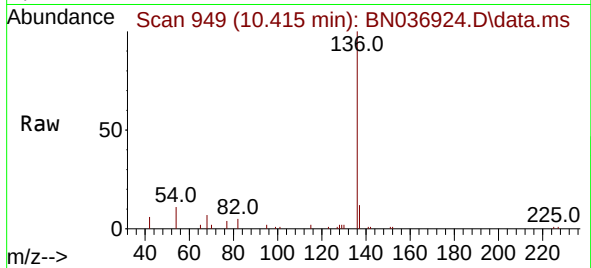




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

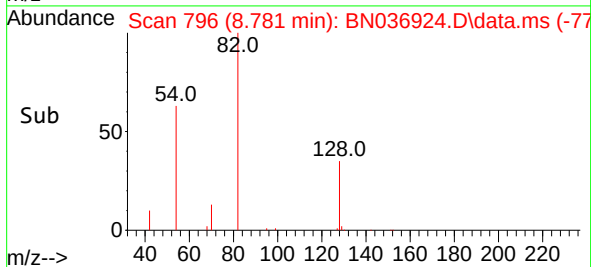
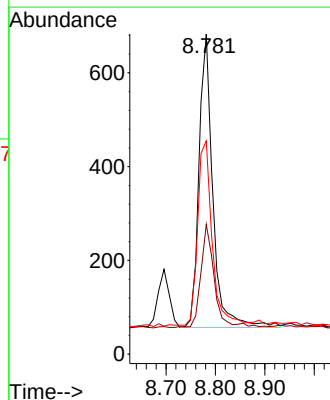
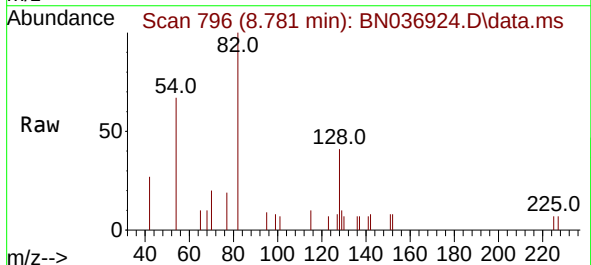
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BNA_N
ClientSampleId :
SSTDICC0.2

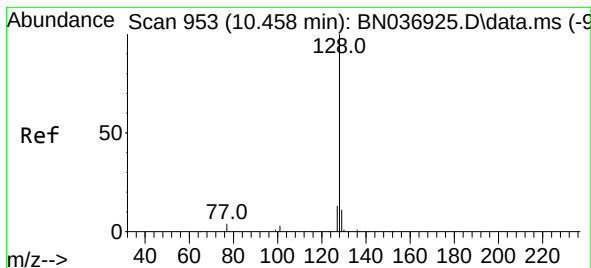
Tgt Ion:	136	Resp:	6094
Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.7	14.5
54	10.8	8.0	12.0
68	6.7	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.193 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:	82	Resp:	1223
Ion	Ratio	Lower	Upper
82	100		
128	40.6	30.7	46.1
54	66.6	52.1	78.1





#9

Naphthalene

Concen: 0.197 ng

RT: 10.458 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

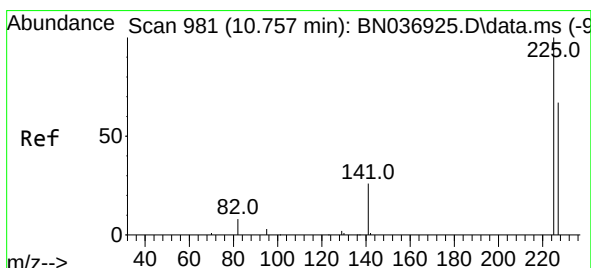
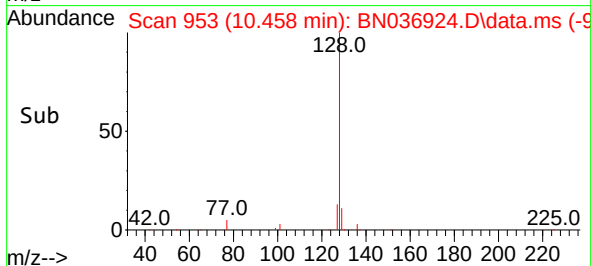
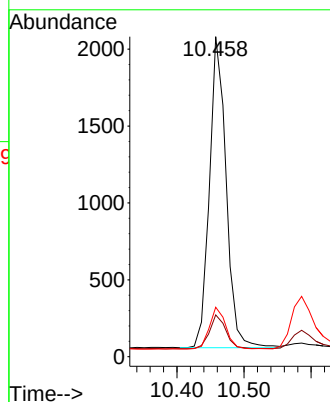
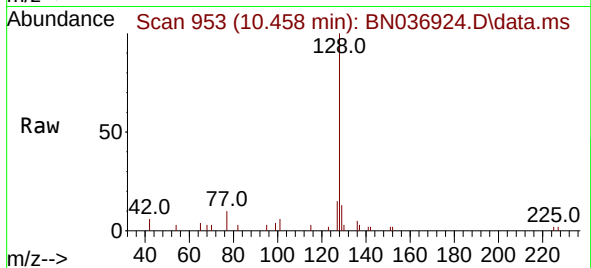
Tgt Ion:128 Resp: 3495

Ion Ratio Lower Upper

128 100

129 13.1 9.8 14.6

127 15.5 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.197 ng

RT: 10.757 min Scan# 981

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

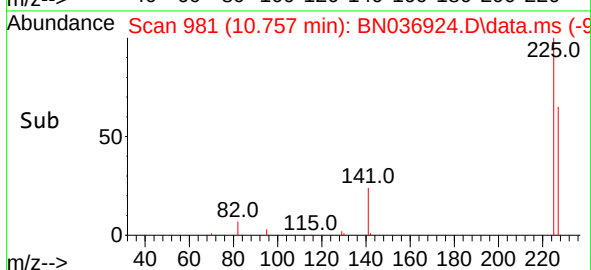
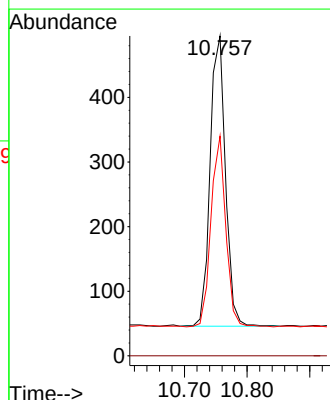
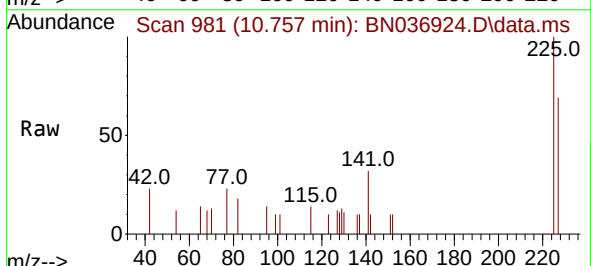
Tgt Ion:225 Resp: 763

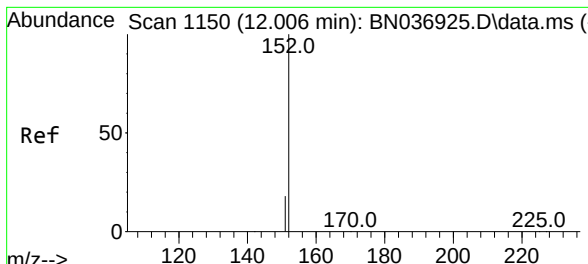
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.4 52.2 78.4

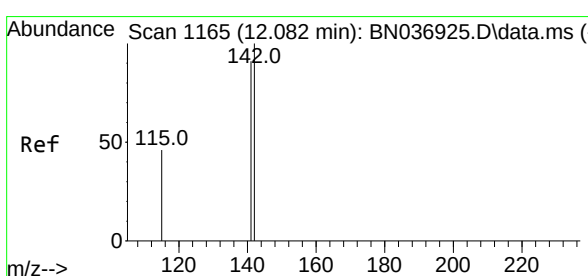
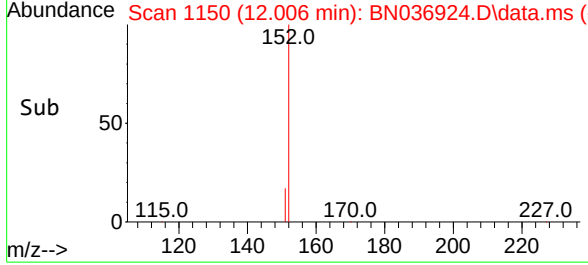
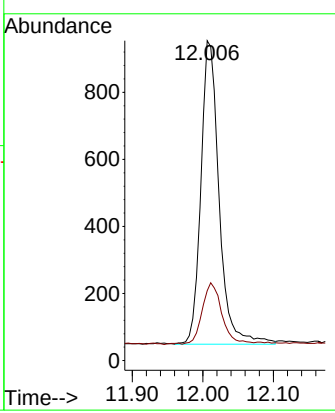
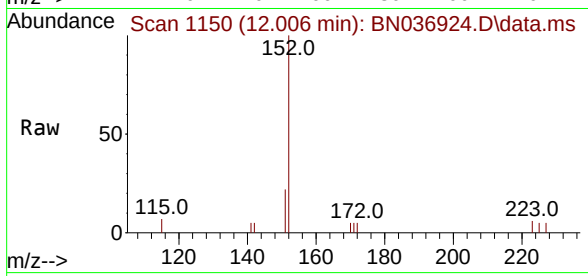




#11
 2-Methylnaphthalene-d10
 Concen: 0.192 ng
 RT: 12.006 min Scan# 1150
 Delta R.T. -0.000 min
 Lab File: BN036924.D
 Acq: 28 Apr 2025 12:11

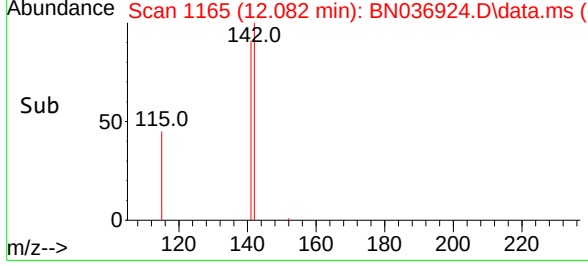
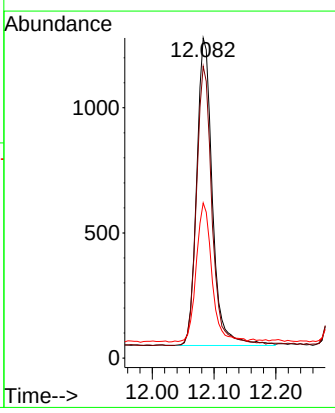
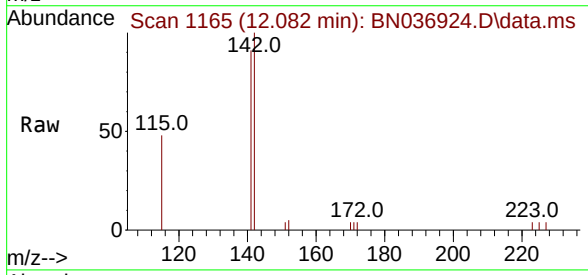
Instrument : BNA_N
 ClientSampleId : BN036924.D
 SSTDICC0.2

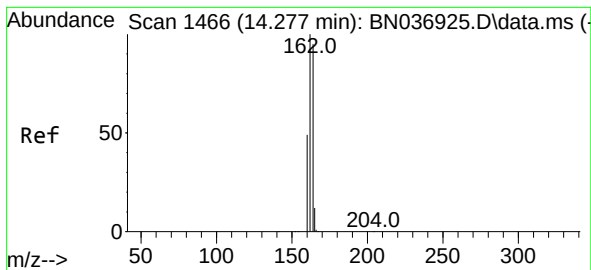
Tgt Ion:	152	Resp:	1620
Ion Ratio	Lower	Upper	
152	100		
151	21.7	16.9	25.3



#12
 2-Methylnaphthalene
 Concen: 0.191 ng
 RT: 12.082 min Scan# 1165
 Delta R.T. -0.000 min
 Lab File: BN036924.D
 Acq: 28 Apr 2025 12:11

Tgt Ion:	142	Resp:	2173
Ion Ratio	Lower	Upper	
142	100		
141	91.2	72.8	109.2
115	48.5	38.2	57.4

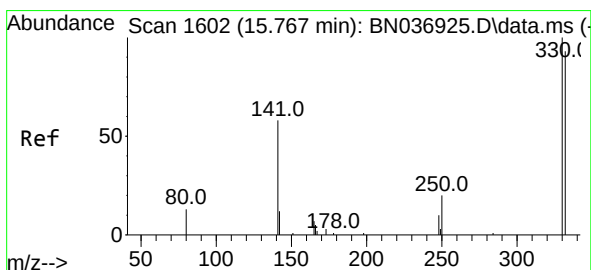
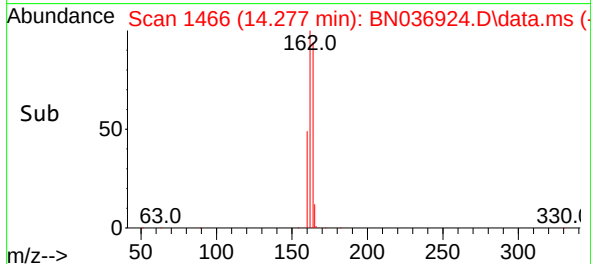
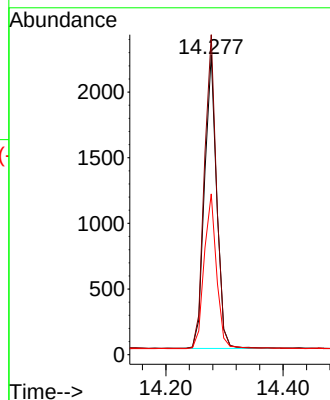
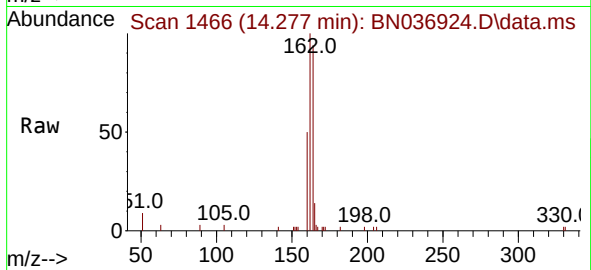




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

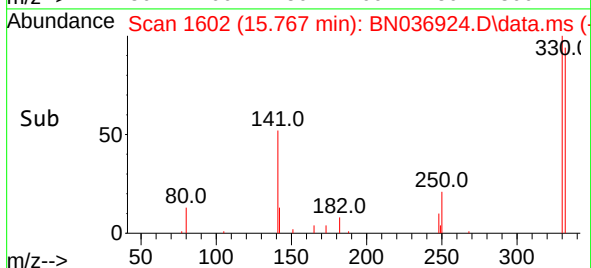
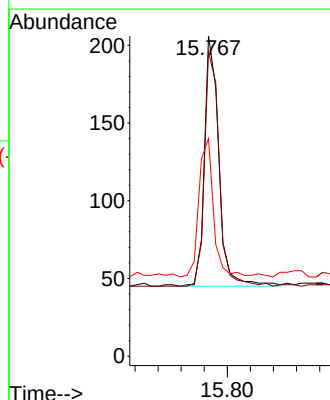
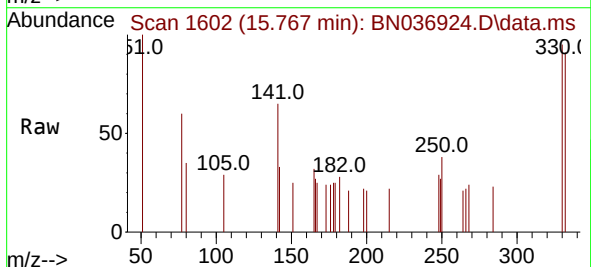
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

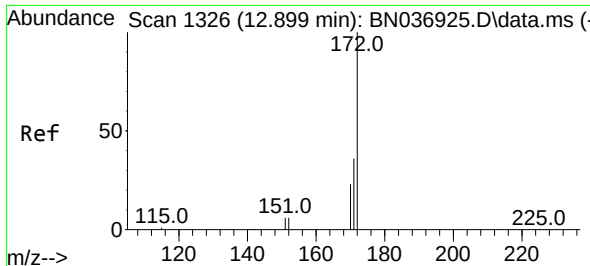
Tgt Ion:164 Resp: 3232
Ion Ratio Lower Upper
164 100
162 106.7 83.8 125.8
160 53.6 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.197 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:330 Resp: 279
Ion Ratio Lower Upper
330 100
332 95.7 76.3 114.5
141 55.9 45.4 68.2

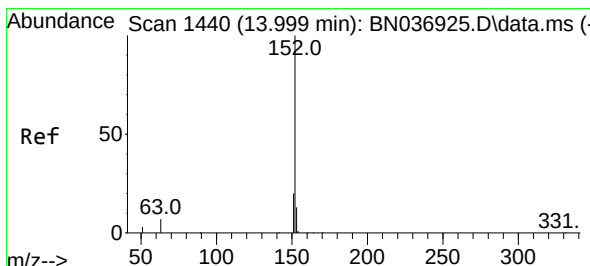
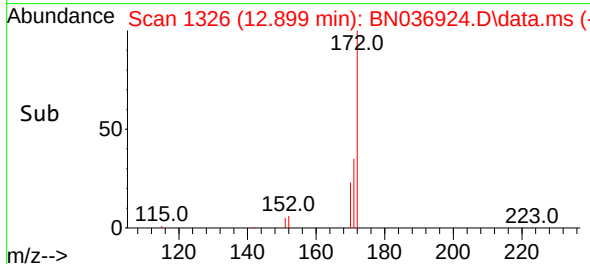
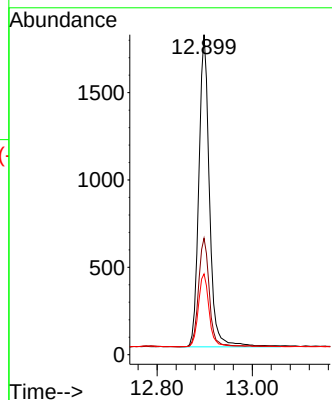
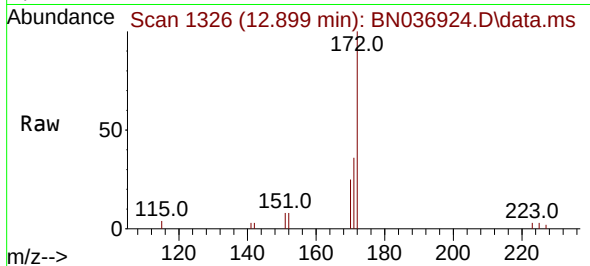




#15
2-Fluorobiphenyl
Concen: 0.204 ng
RT: 12.899 min Scan# 1439
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

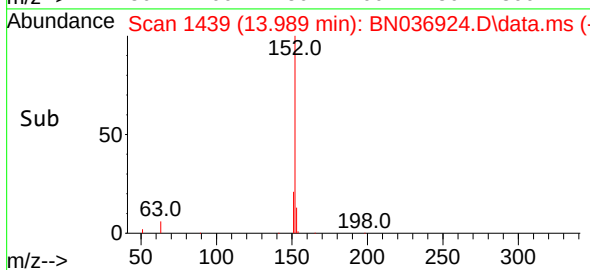
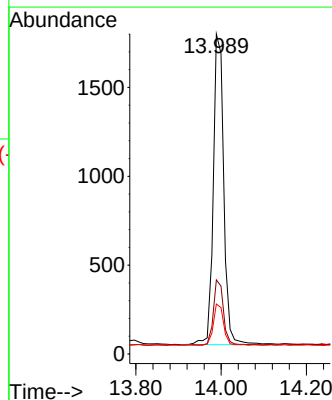
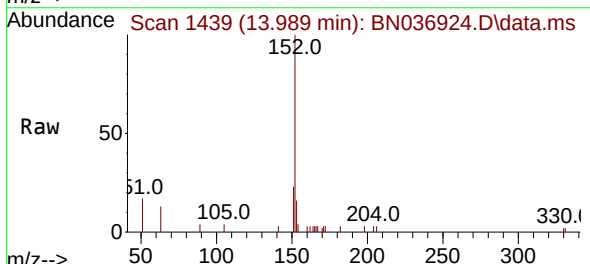
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

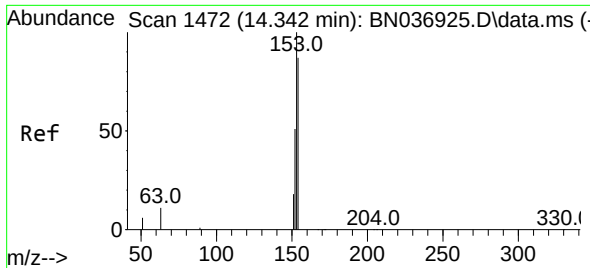
Tgt Ion:172	Resp:	3191
Ion Ratio	Lower	Upper
172	100	
171	36.4	29.4 44.0
170	25.3	19.4 29.0



#16
Acenaphthylene
Concen: 0.191 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:152	Resp:	2990
Ion Ratio	Lower	Upper
152	100	
151	20.2	16.0 24.0
153	12.8	10.2 15.2

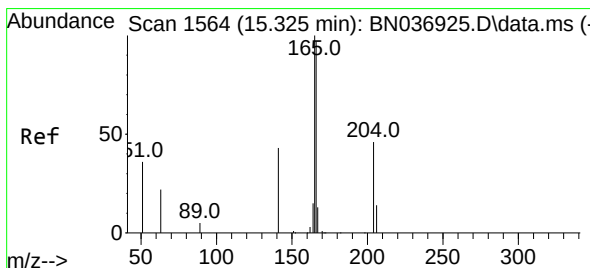
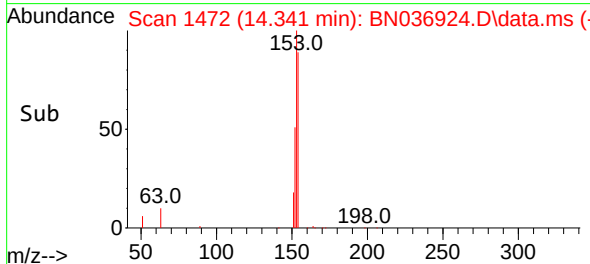
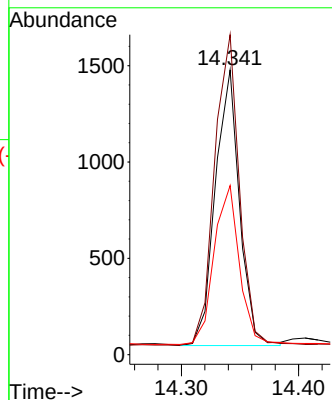
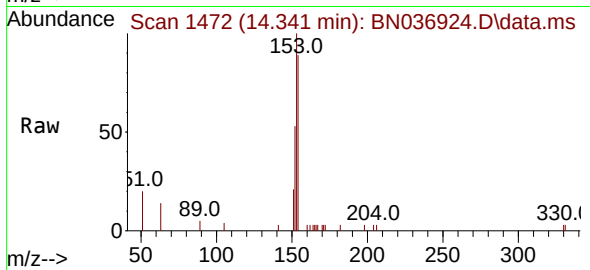




#17
Acenaphthene
Concen: 0.198 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

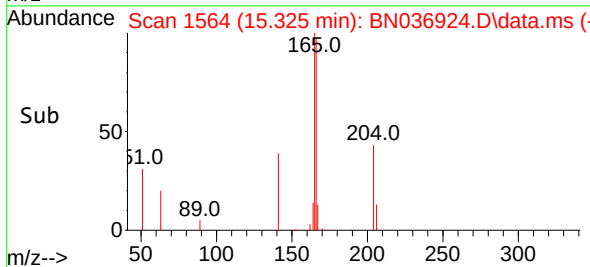
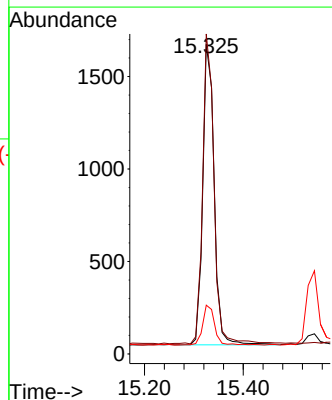
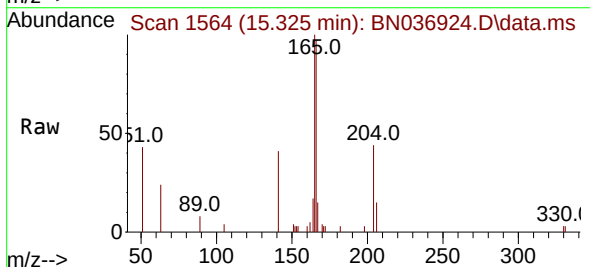
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

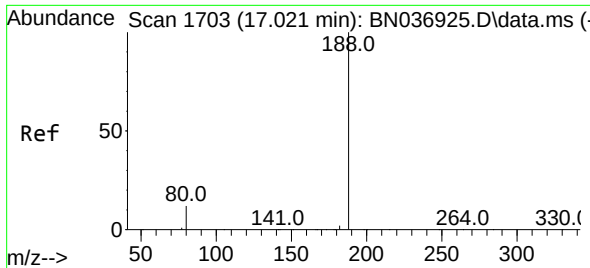
Tgt Ion:154 Resp: 2053
Ion Ratio Lower Upper
154 100
153 115.1 93.4 140.2
152 60.9 49.5 74.3



#18
Fluorene
Concen: 0.193 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:166 Resp: 2605
Ion Ratio Lower Upper
166 100
165 101.9 80.8 121.2
167 14.0 10.8 16.2

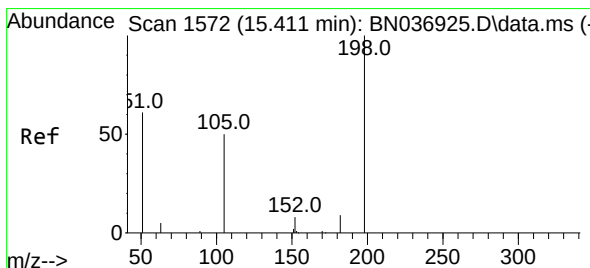
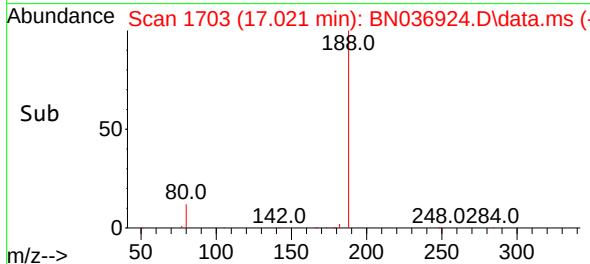
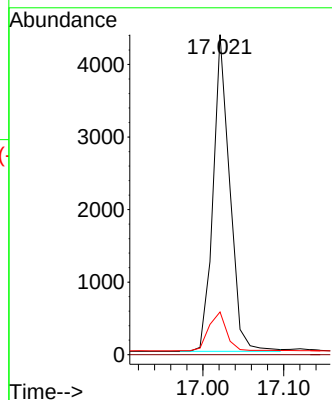
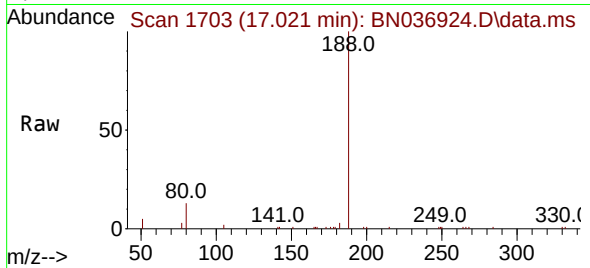




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

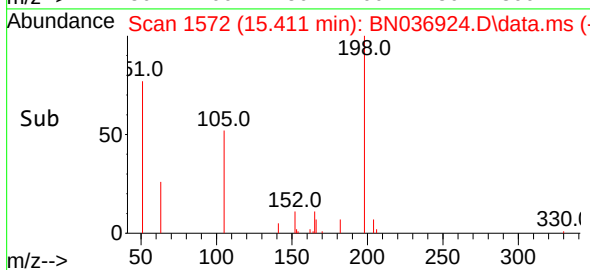
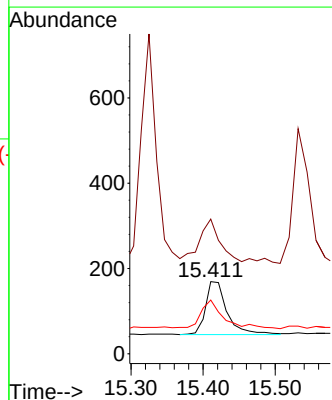
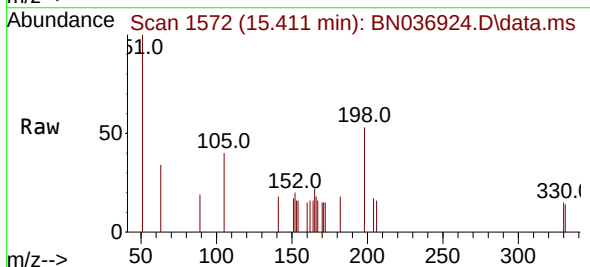
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

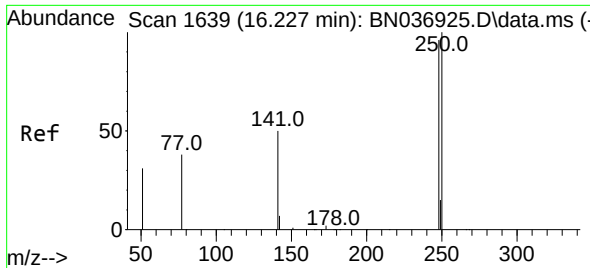
Tgt Ion:188 Resp: 6237
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.4 10.7 16.1



#20
4,6-Dinitro-2-methylphenol
Concen: 0.165 ng
RT: 15.411 min Scan# 1572
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:198 Resp: 258
Ion Ratio Lower Upper
198 100
51 187.0 97.9 146.9#
105 74.6 50.0 75.0

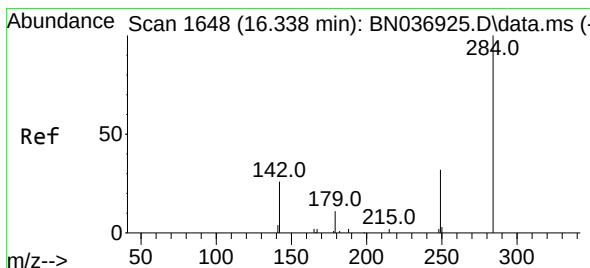
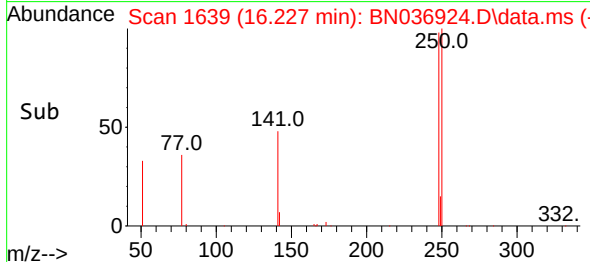
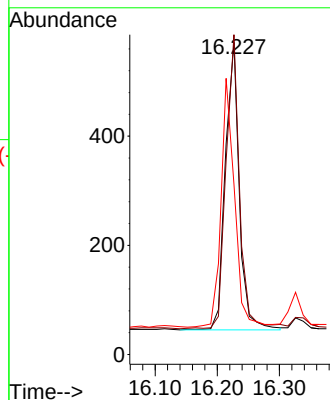
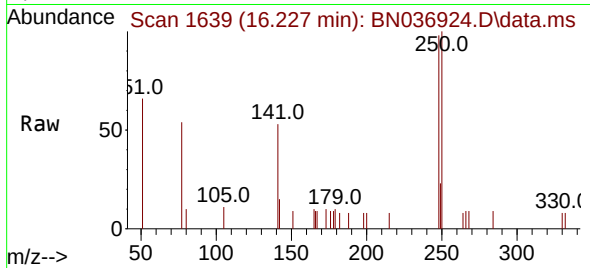




#21
4-Bromophenyl-phenylether
Concen: 0.197 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

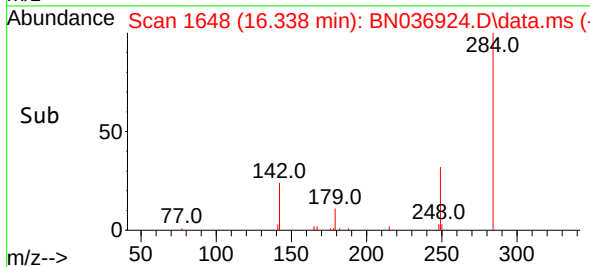
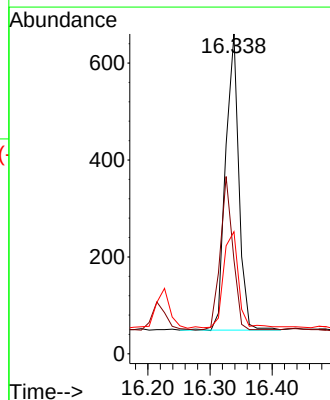
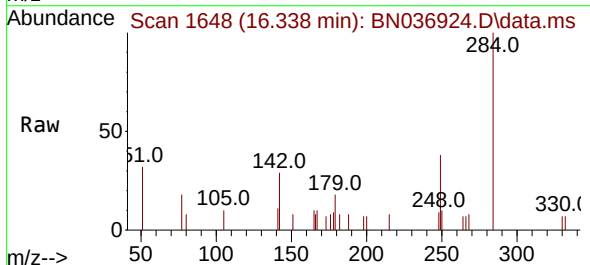
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

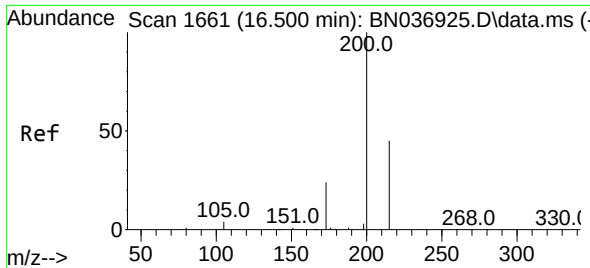
Tgt Ion:248 Resp: 819
Ion Ratio Lower Upper
248 100
250 102.4 83.7 125.5
141 54.5 43.8 65.8



#22
Hexachlorobenzene
Concen: 0.196 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:284 Resp: 900
Ion Ratio Lower Upper
284 100
142 49.8 40.0 60.0
249 37.0 28.2 42.2

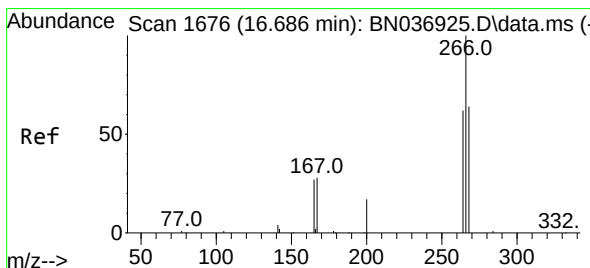
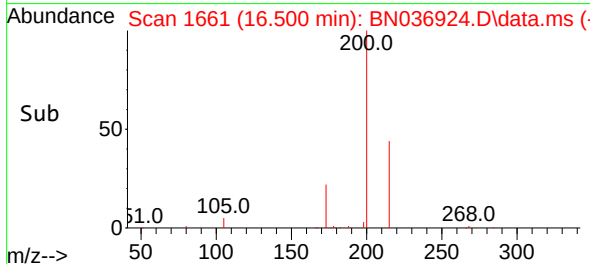
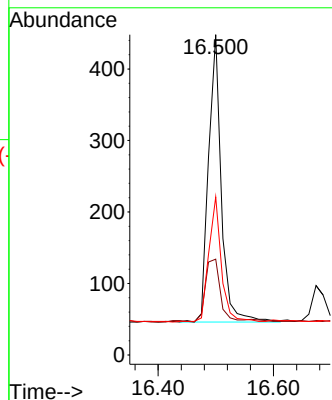
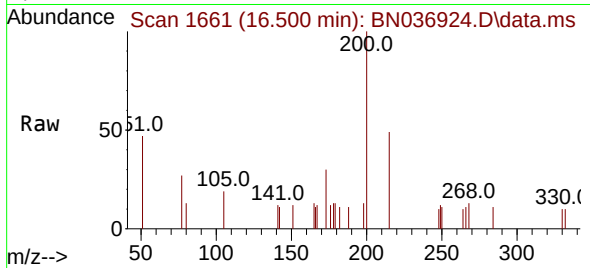




#23
Atrazine
Concen: 0.189 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

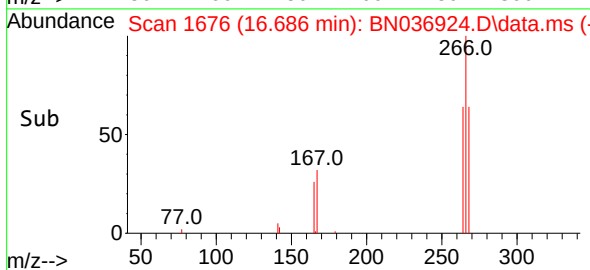
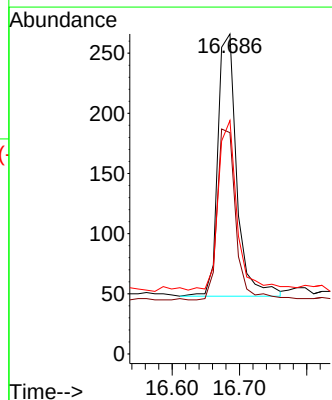
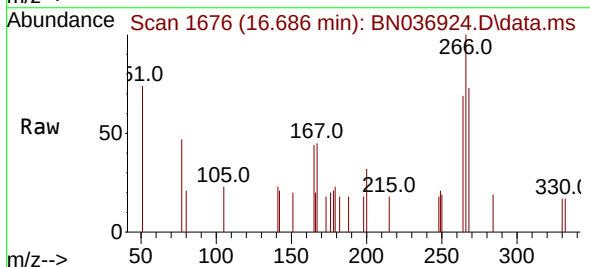
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

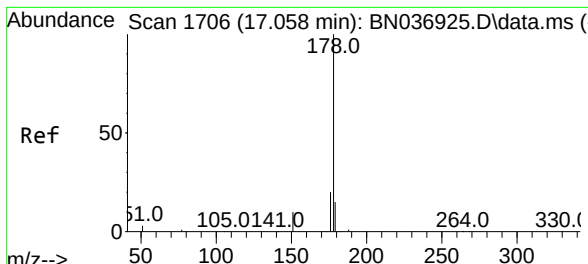
Tgt Ion:	200	Resp:	618
Ion Ratio	Lower	Upper	
200	100		
173	29.9	22.4	33.6
215	49.3	38.6	57.8



#24
Pentachlorophenol
Concen: 0.178 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:	266	Resp:	425
Ion Ratio	Lower	Upper	
266	100		
264	64.5	49.9	74.9
268	66.8	52.2	78.4

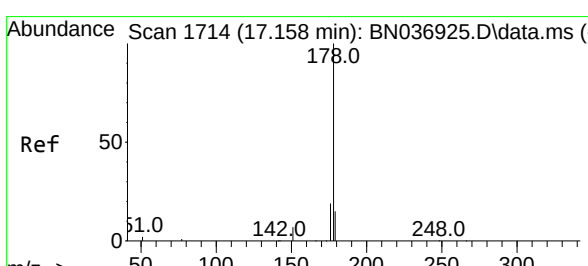
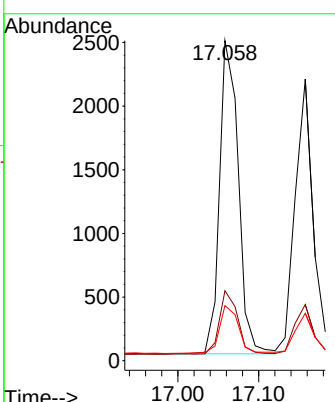
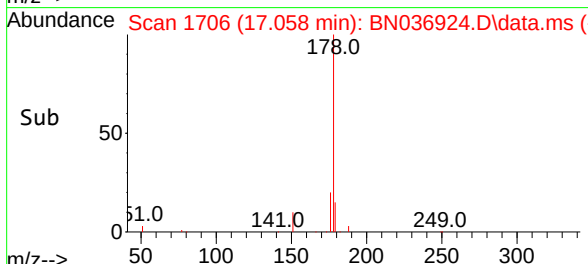
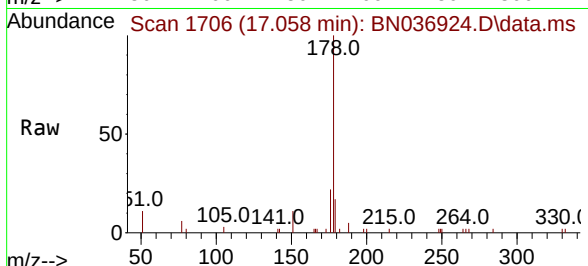




#25
 Phenanthrene
 Concen: 0.194 ng
 RT: 17.058 min Scan# 1706
 Delta R.T. -0.000 min
 Lab File: BN036924.D
 Acq: 28 Apr 2025 12:11

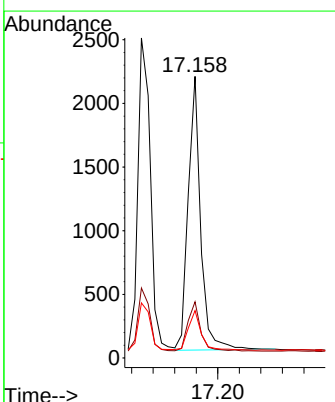
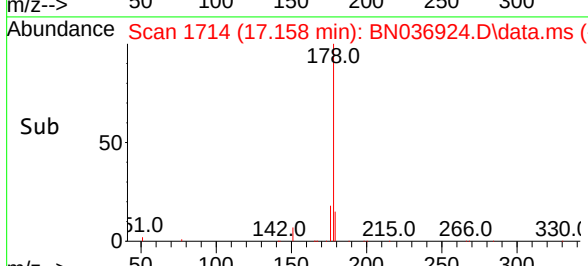
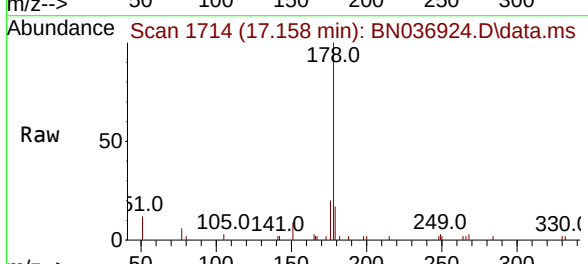
Instrument : BNA_N
 ClientSampleId : SSTDICC0.2

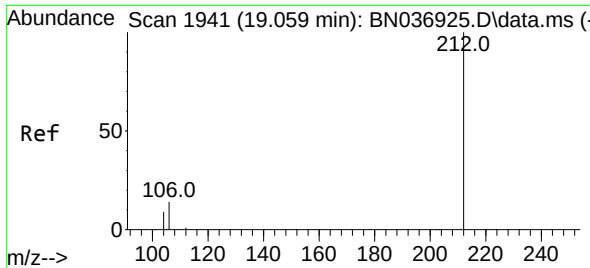
Tgt Ion:	178	Resp:	3972
Ion Ratio	Lower	Upper	
178	100		
176	19.9	15.7	23.5
179	15.5	12.4	18.6



#26
 Anthracene
 Concen: 0.188 ng
 RT: 17.158 min Scan# 1714
 Delta R.T. -0.000 min
 Lab File: BN036924.D
 Acq: 28 Apr 2025 12:11

Tgt Ion:	178	Resp:	3454
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.3	22.9
179	15.2	12.1	18.1

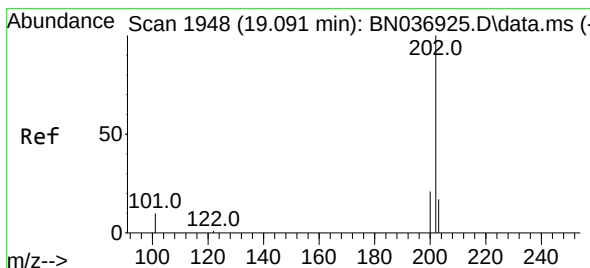
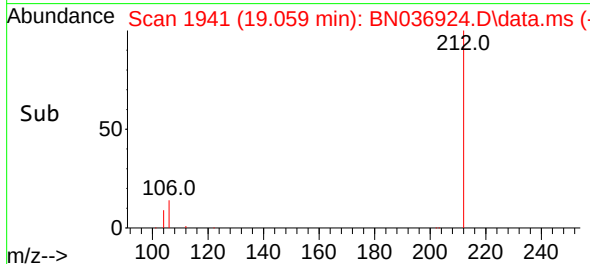
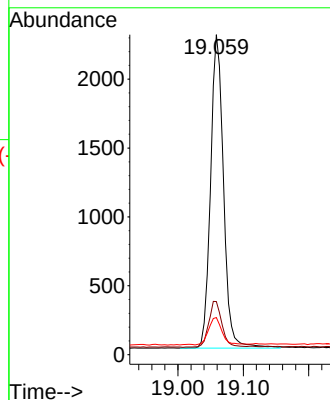
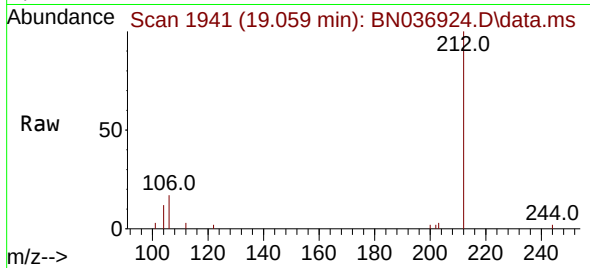




#27
Fluoranthene-d10
Concen: 0.196 ng
RT: 19.059 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

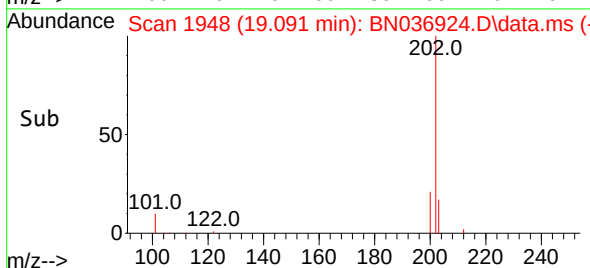
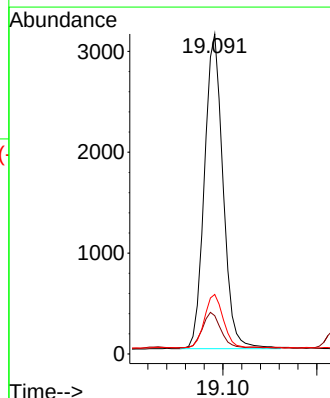
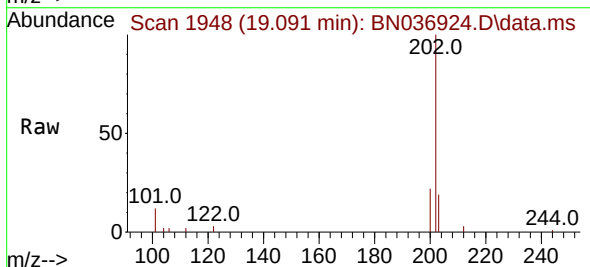
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

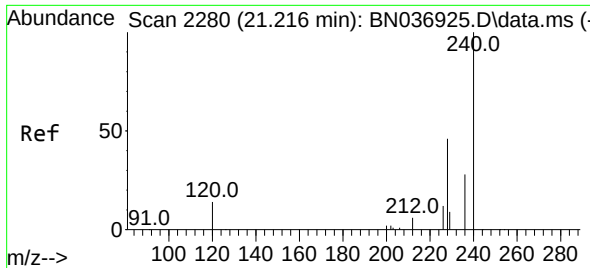
Tgt Ion:212 Resp: 3130
Ion Ratio Lower Upper
212 100
106 15.0 11.6 17.4
104 9.0 7.0 10.4



#28
Fluoranthene
Concen: 0.189 ng
RT: 19.091 min Scan# 1948
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:202 Resp: 4305
Ion Ratio Lower Upper
202 100
101 11.2 8.5 12.7
203 17.4 13.7 20.5

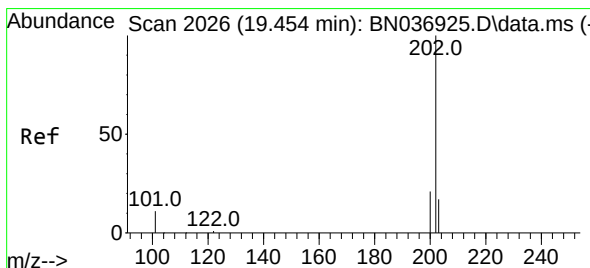
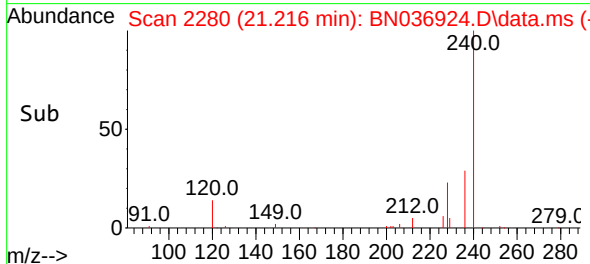
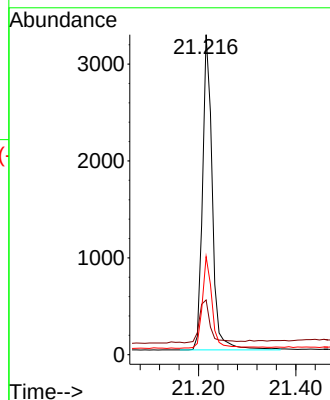
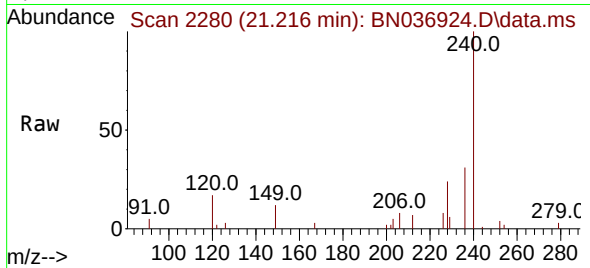




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.216 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

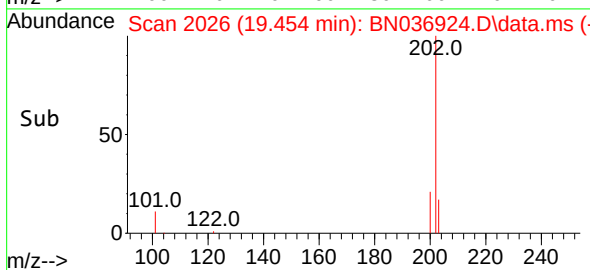
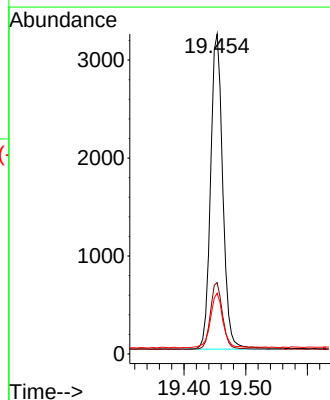
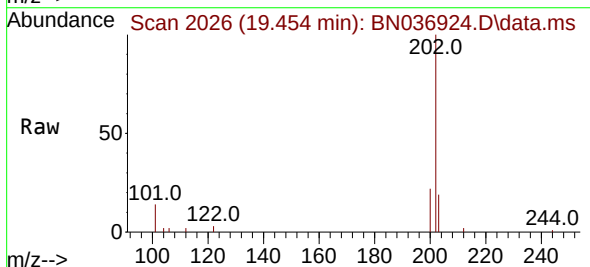
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

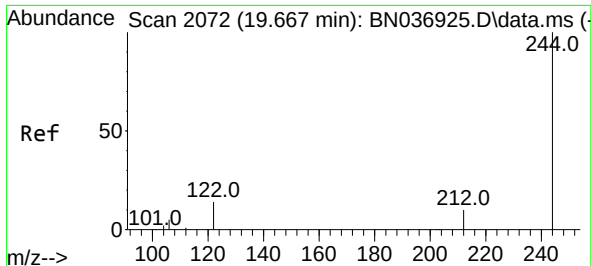
Tgt Ion:240 Resp: 4535
Ion Ratio Lower Upper
240 100
120 17.1 14.1 21.1
236 30.7 23.8 35.8



#30
Pyrene
Concen: 0.200 ng
RT: 19.454 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:202 Resp: 4403
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.6
203 17.8 14.0 21.0

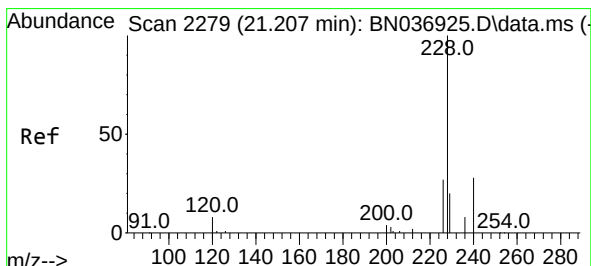
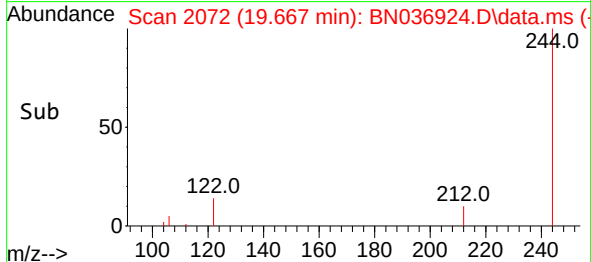
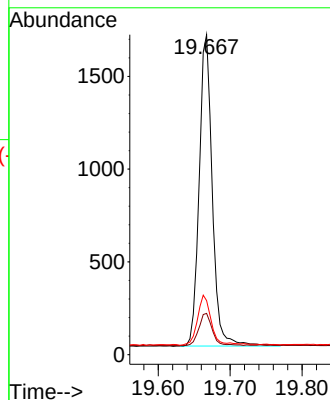
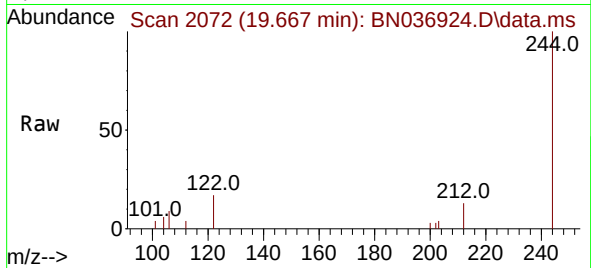




#31
 Terphenyl-d14
 Concen: 0.198 ng
 RT: 19.667 min Scan# 2072
 Delta R.T. -0.000 min
 Lab File: BN036924.D
 Acq: 28 Apr 2025 12:11

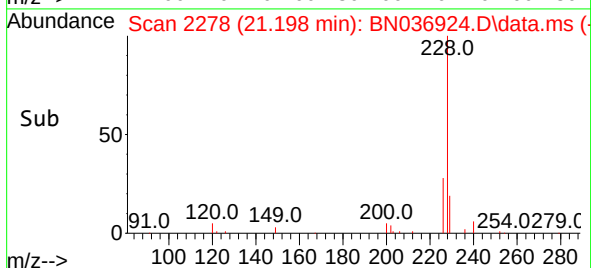
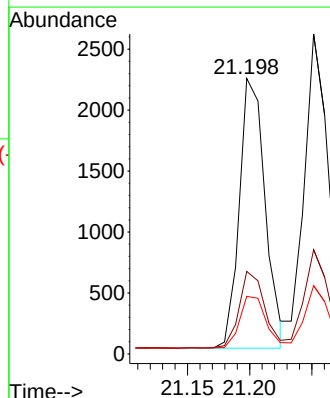
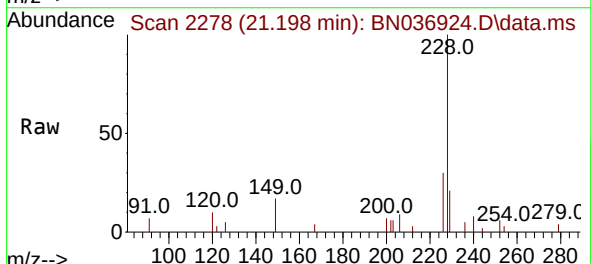
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

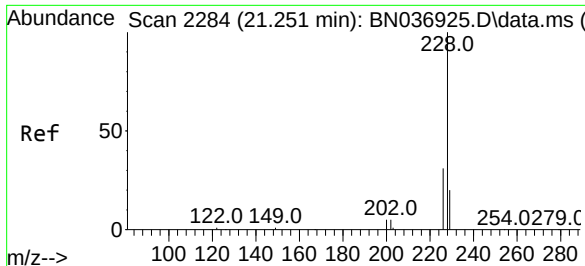
Tgt Ion:	244	Resp:	2136
Ion Ratio	Lower	Upper	
244	100		
212	12.9	9.6	14.4
122	16.9	12.7	19.1



#32
 Benzo(a)anthracene
 Concen: 0.193 ng
 RT: 21.198 min Scan# 2278
 Delta R.T. -0.009 min
 Lab File: BN036924.D
 Acq: 28 Apr 2025 12:11

Tgt Ion:	228	Resp:	3191
Ion Ratio	Lower	Upper	
228	100		
226	30.0	22.2	33.4
229	20.9	16.4	24.6

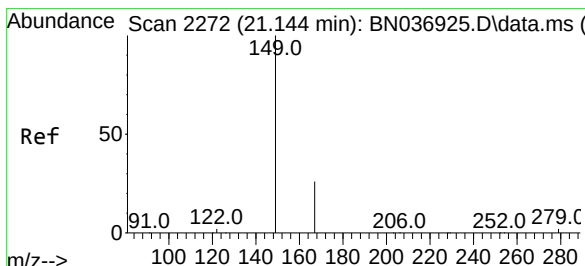
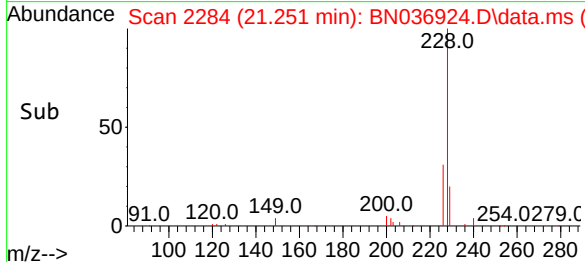
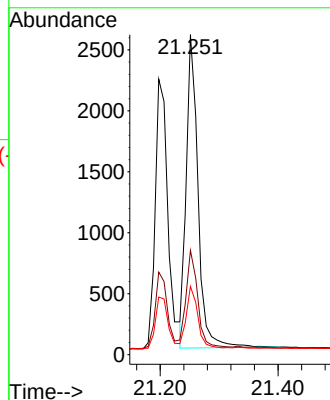
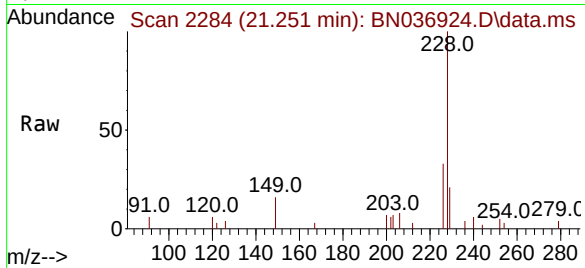




#33
Chrysene
Concen: 0.197 ng
RT: 21.251 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

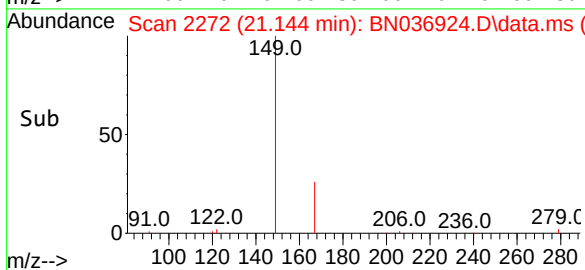
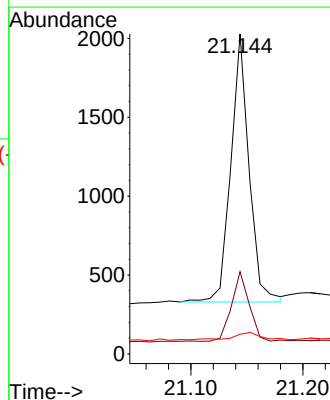
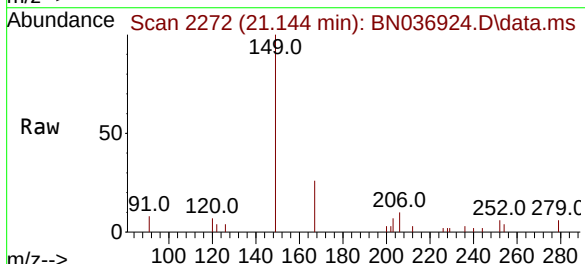
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

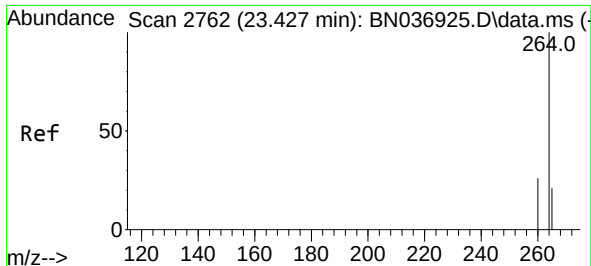
Tgt Ion:228 Resp: 3574
Ion Ratio Lower Upper
228 100
226 32.6 25.5 38.3
229 21.3 16.5 24.7



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.203 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

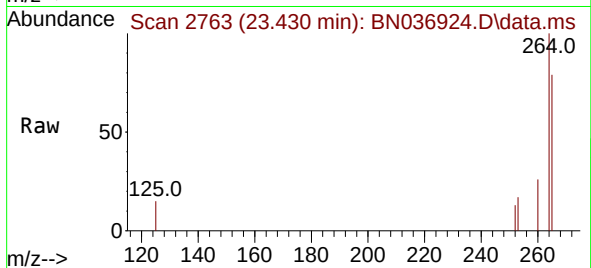
Tgt Ion:149 Resp: 1921
Ion Ratio Lower Upper
149 100
167 25.4 21.0 31.6
279 3.9 2.7 4.1





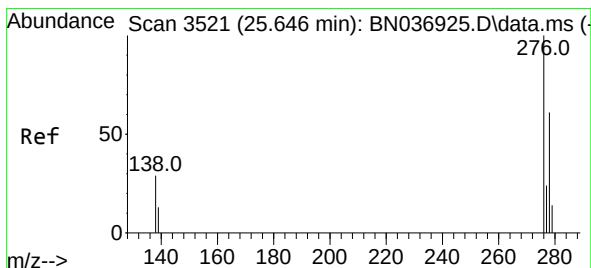
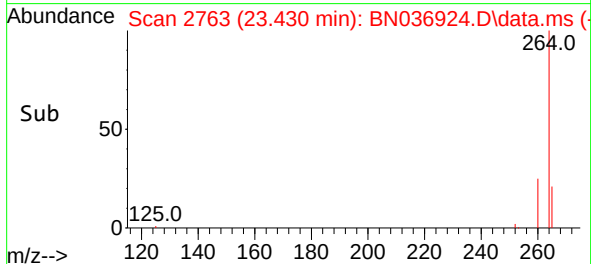
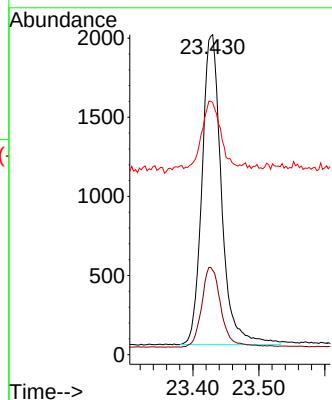
#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.430 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: BN036924.D
 Acq: 28 Apr 2025 12:11

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



Tgt Ion: 264 Resp: 4026

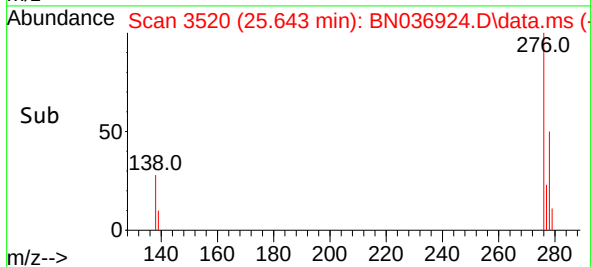
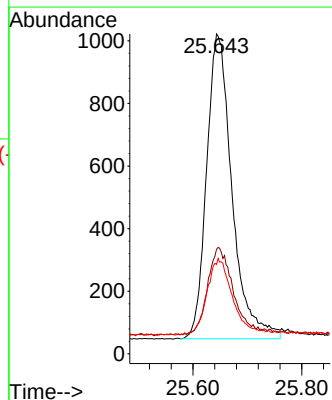
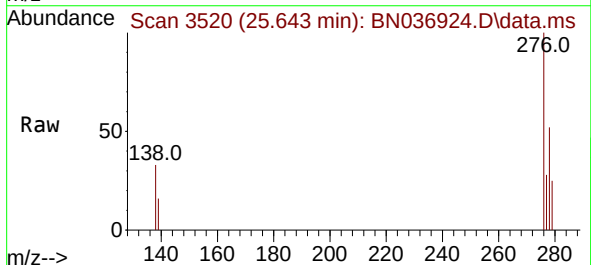
Ion	Ratio	Lower	Upper
264	100		
260	26.4	22.2	33.2
265	78.7	65.8	98.6

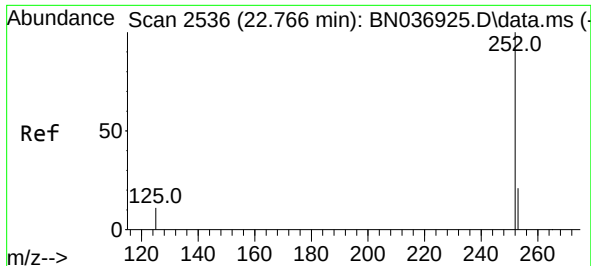


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.192 ng
 RT: 25.643 min Scan# 3520
 Delta R.T. -0.003 min
 Lab File: BN036924.D
 Acq: 28 Apr 2025 12:11

Tgt Ion: 276 Resp: 3163

Ion	Ratio	Lower	Upper
276	100		
138	28.4	23.0	34.6
277	25.2	20.0	30.0

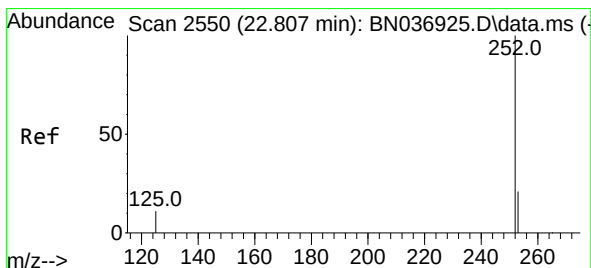
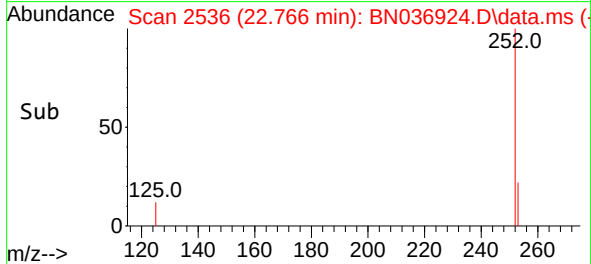
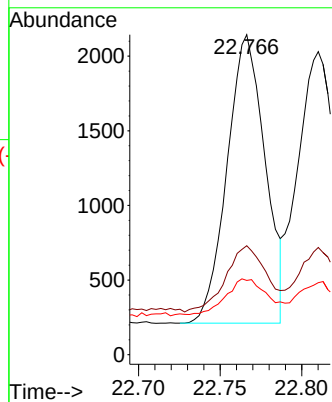
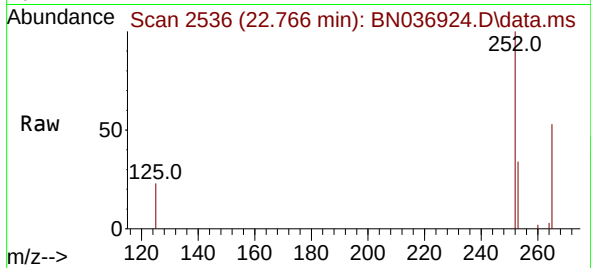




#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 22.766 min Scan# 2536
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

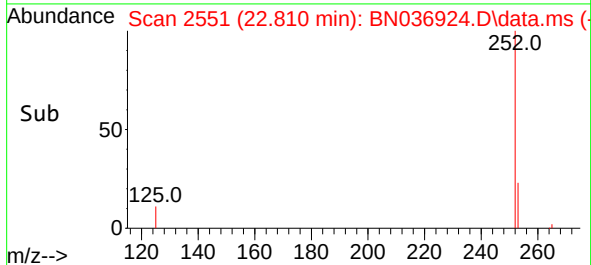
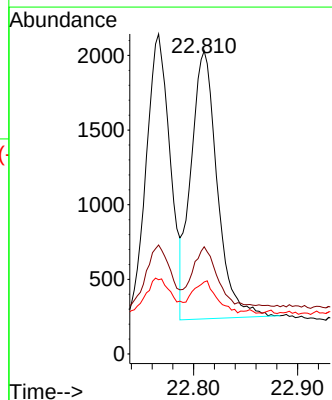
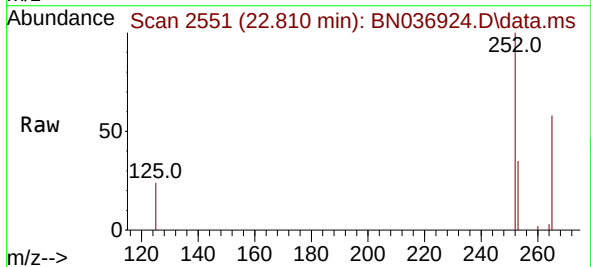
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

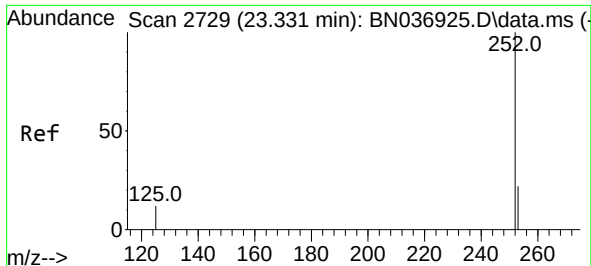
Tgt Ion:252 Resp: 3124
Ion Ratio Lower Upper
252 100
253 34.0 22.1 33.1#
125 23.2 14.2 21.2#



#38
Benzo(k)fluoranthene
Concen: 0.187 ng
RT: 22.810 min Scan# 2551
Delta R.T. 0.003 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

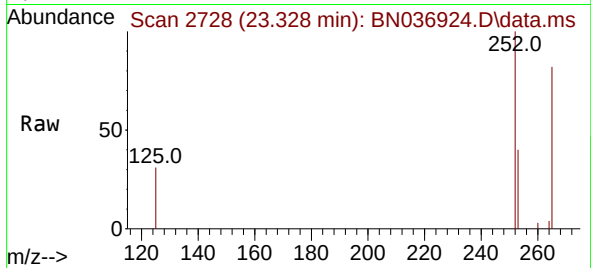
Tgt Ion:252 Resp: 3158
Ion Ratio Lower Upper
252 100
253 35.4 22.8 34.2#
125 23.8 14.2 21.2#



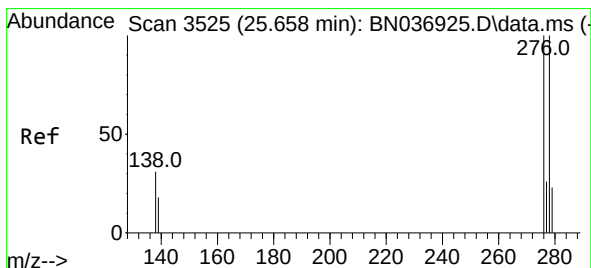
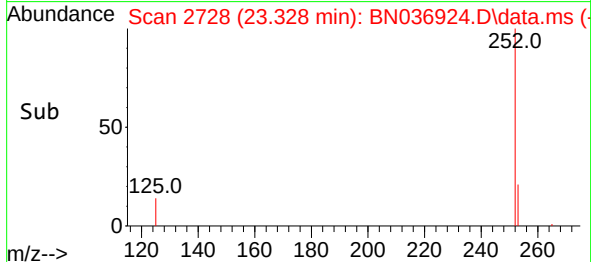
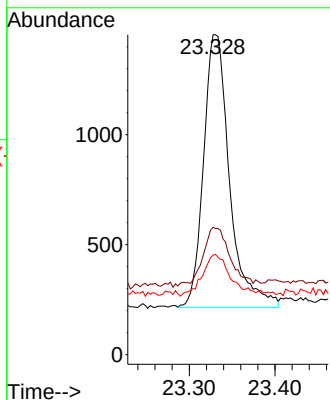


#39
Benzo(a)pyrene
Concen: 0.190 ng
RT: 23.328 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

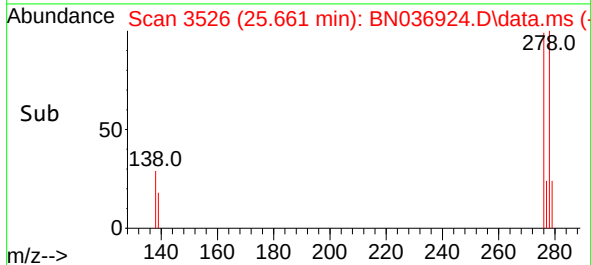
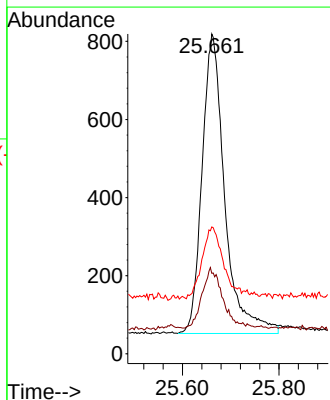
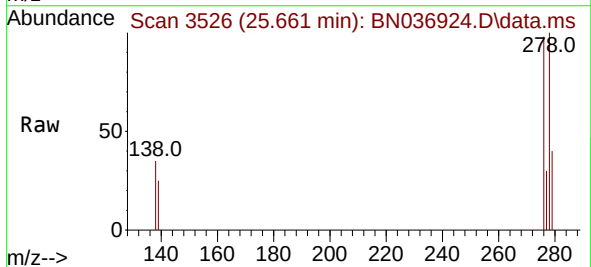


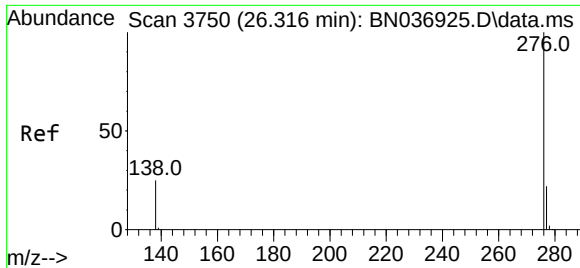
Tgt Ion:252 Resp: 2619
Ion Ratio Lower Upper
252 100
253 39.8 25.9 38.9#
125 31.1 17.4 26.0#



#40
Dibenzo(a,h)anthracene
Concen: 0.193 ng
RT: 25.661 min Scan# 3526
Delta R.T. 0.003 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

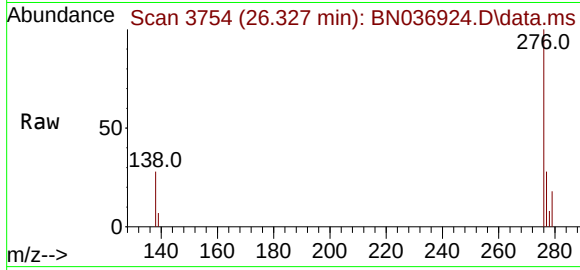
Tgt Ion:278 Resp: 2498
Ion Ratio Lower Upper
278 100
139 25.2 17.4 26.2
279 39.7 24.9 37.3#



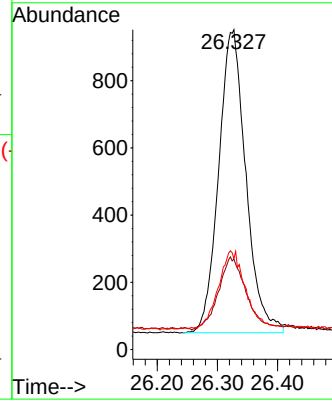
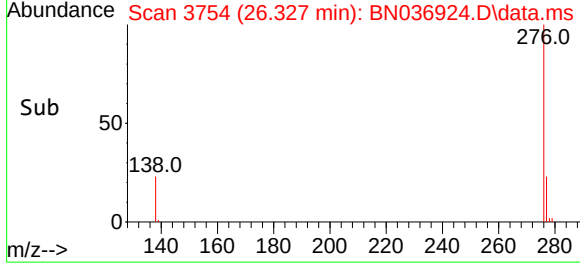


#41
 Benzo(g,h,i)perylene
 Concen: 0.195 ng
 RT: 26.327 min Scan# 31
 Delta R.T. 0.012 min
 Lab File: BN036924.D
 Acq: 28 Apr 2025 12:11

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



Tgt Ion:	276	Resp:	2828
Ion	Ratio	Lower	Upper
276	100		
277	28.3	20.2	30.2
138	28.5	21.9	32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
 Data File : BN036952.D
 Acq On : 30 Apr 2025 18:17
 Operator : RC/JU
 Sample : PB167760BS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167760BS

Quant Time: May 01 01:12:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

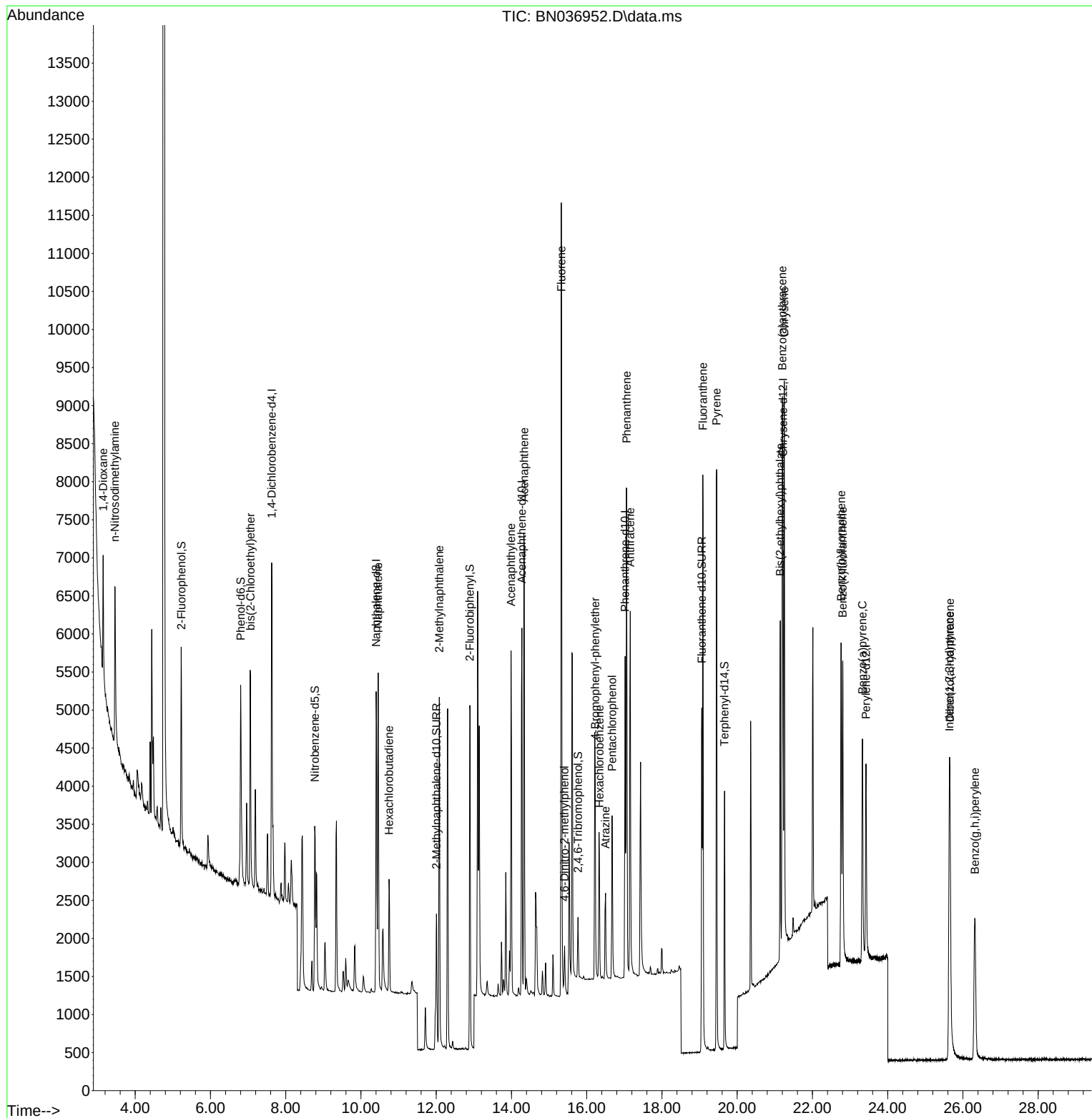
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.626	152	2072	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	5162	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	2727	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5423	0.400	ng	0.00
29) Chrysene-d12	21.216	240	4126	0.400	ng	# 0.00
35) Perylene-d12	23.424	264	3488	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	1848	0.349	ng	0.00
5) Phenol-d6	6.802	99	2148	0.329	ng	0.00
8) Nitrobenzene-d5	8.771	82	1862	0.345	ng	-0.01
11) 2-Methylnaphthalene-d10	12.006	152	3378	0.468	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	416	0.342	ng	0.00
15) 2-Fluorobiphenyl	12.894	172	4134	0.314	ng	0.00
27) Fluoranthene-d10	19.059	212	4961	0.353	ng	0.00
31) Terphenyl-d14	19.663	244	3494	0.359	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.148	88	740	0.287	ng	# 43
3) n-Nitrosodimethylamine	3.458	42	1917	0.383	ng	# 94
6) bis(2-Chloroethyl)ether	7.062	93	2097	0.347	ng	96
9) Naphthalene	10.458	128	5188	0.345	ng	99
10) Hexachlorobutadiene	10.746	225	1196	0.368	ng	# 98
12) 2-Methylnaphthalene	12.082	142	3288	0.339	ng	99
16) Acenaphthylene	13.989	152	4827	0.362	ng	99
17) Acenaphthene	14.342	154	3061	0.350	ng	100
18) Fluorene	15.325	166	3953	0.345	ng	100
20) 4,6-Dinitro-2-methylph...	15.411	198	481	0.335	ng	# 78
21) 4-Bromophenyl-phenylether	16.227	248	1251	0.346	ng	98
22) Hexachlorobenzene	16.338	284	1382	0.348	ng	96
23) Atrazine	16.500	200	1092	0.374	ng	98
24) Pentachlorophenol	16.674	266	1008	0.474	ng	98
25) Phenanthrene	17.058	178	6409	0.358	ng	100
26) Anthracene	17.158	178	5818	0.359	ng	100
28) Fluoranthene	19.087	202	7000	0.349	ng	100
30) Pyrene	19.454	202	7102	0.357	ng	99
32) Benzo(a)anthracene	21.198	228	5546	0.365	ng	99
33) Chrysene	21.251	228	6250	0.381	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	3105	0.359	ng	100
36) Indeno(1,2,3-cd)pyrene	25.640	276	5142	0.361	ng	98
37) Benzo(b)fluoranthene	22.763	252	5169	0.352	ng	99
38) Benzo(k)fluoranthene	22.801	252	5282	0.358	ng	99
39) Benzo(a)pyrene	23.328	252	4501	0.373	ng	99
40) Dibenzo(a,h)anthracene	25.652	278	3958	0.353	ng	98
41) Benzo(g,h,i)perylene	26.316	276	4079	0.328	ng	97

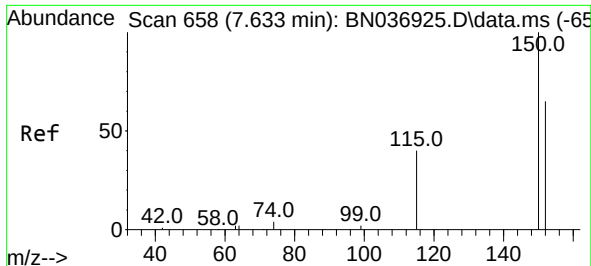
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036952.D
Acq On : 30 Apr 2025 18:17
Operator : RC/JU
Sample : PB167760BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167760BS

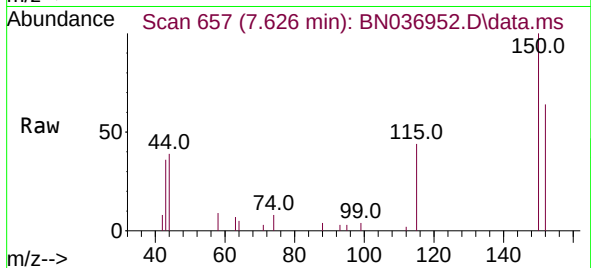
Quant Time: May 01 01:12:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration





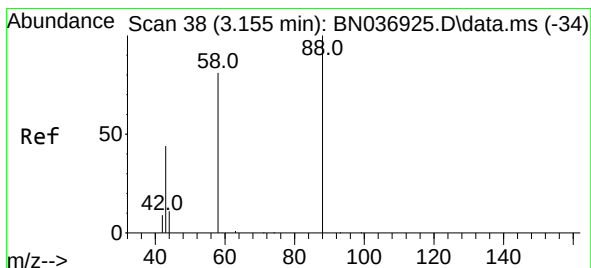
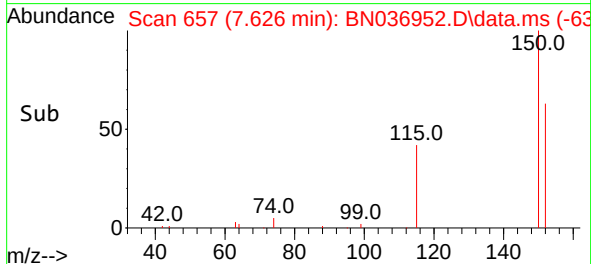
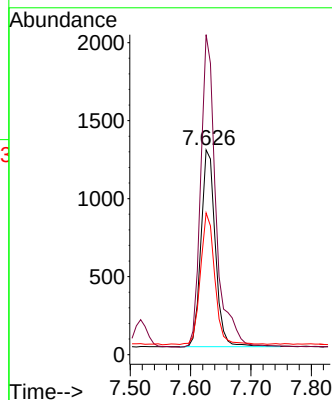
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.626 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN036952.D
 Acq: 30 Apr 2025 18:17

Instrument :
 BNA_N
 ClientSampleId :
 PB167760BS



Tgt Ion:152 Resp: 2072

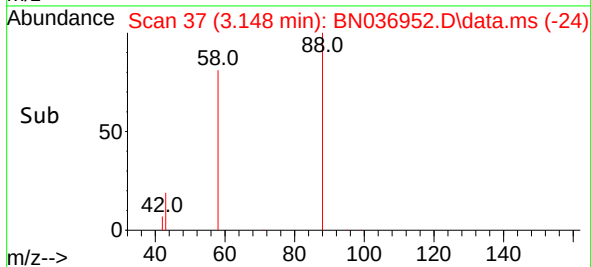
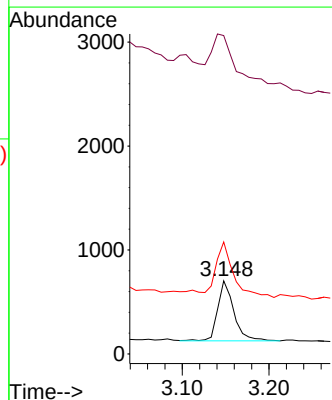
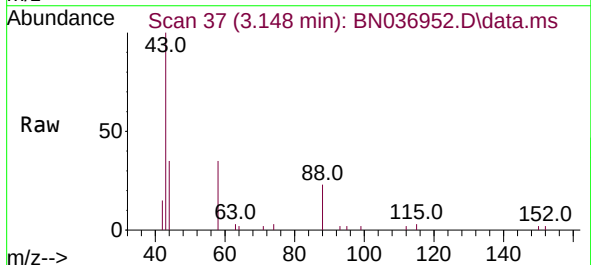
Ion	Ratio	Lower	Upper
152	100		
150	156.2	121.1	181.7
115	69.2	51.8	77.6

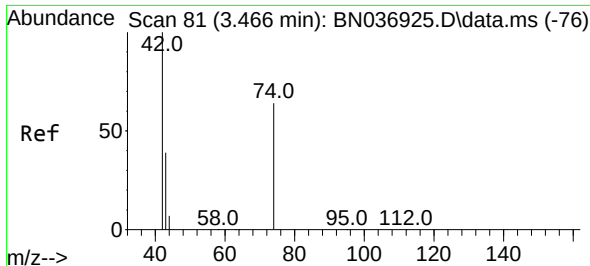


#2
 1,4-Dioxane
 Concen: 0.287 ng
 RT: 3.148 min Scan# 37
 Delta R.T. -0.007 min
 Lab File: BN036952.D
 Acq: 30 Apr 2025 18:17

Tgt Ion: 88 Resp: 740

Ion	Ratio	Lower	Upper
88	100		
43	128.4	37.9	56.9#
58	100.1	65.8	98.6#

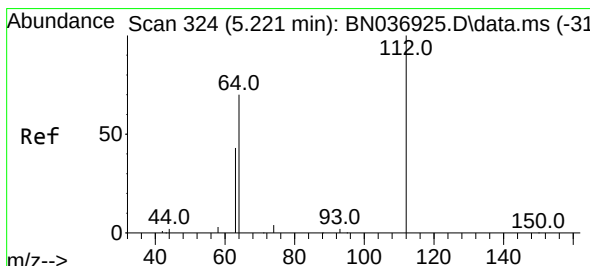
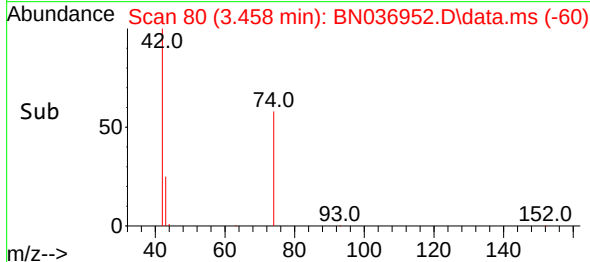
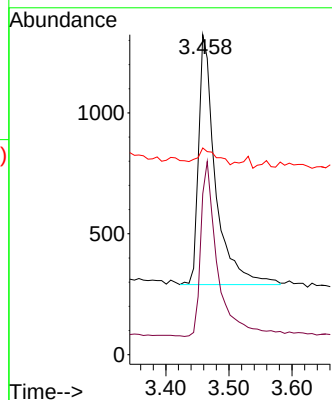
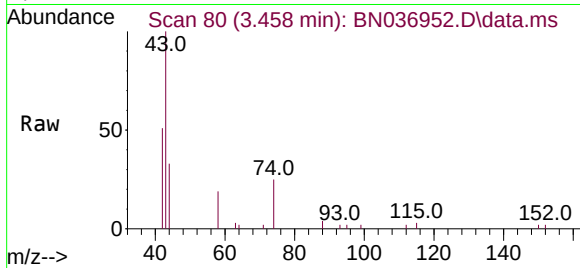




#3
 n-Nitrosodimethylamine
 Concen: 0.383 ng
 RT: 3.458 min Scan# 80
 Delta R.T. -0.007 min
 Lab File: BN036952.D
 Acq: 30 Apr 2025 18:17

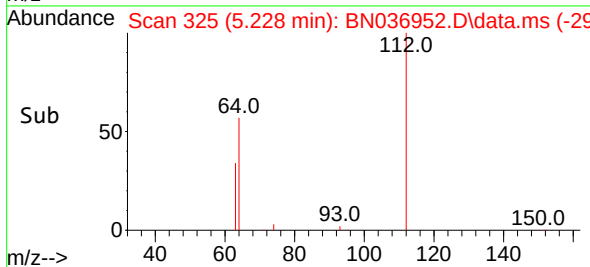
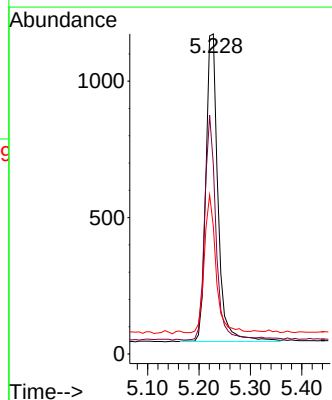
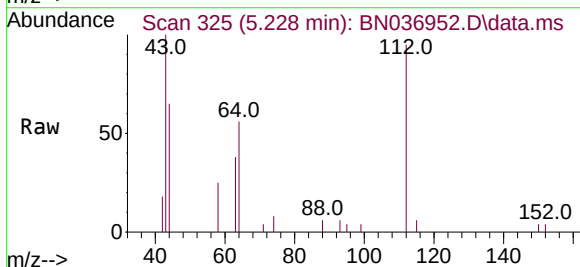
Instrument :
 BNA_N
 ClientSampleId :
 PB167760BS

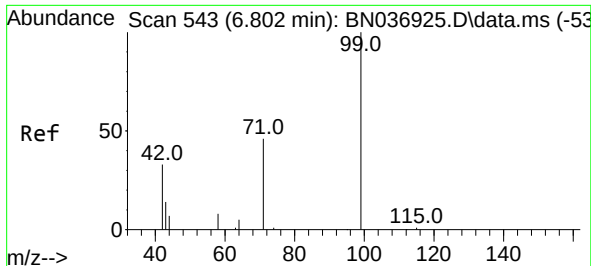
Tgt Ion: 42 Resp: 1917
 Ion Ratio Lower Upper
 42 100
 74 70.0 59.9 89.9
 44 6.7 7.5 11.3#



#4
 2-Fluorophenol
 Concen: 0.349 ng
 RT: 5.228 min Scan# 325
 Delta R.T. 0.007 min
 Lab File: BN036952.D
 Acq: 30 Apr 2025 18:17

Tgt Ion: 112 Resp: 1848
 Ion Ratio Lower Upper
 112 100
 64 68.4 55.7 83.5
 63 42.7 33.9 50.9

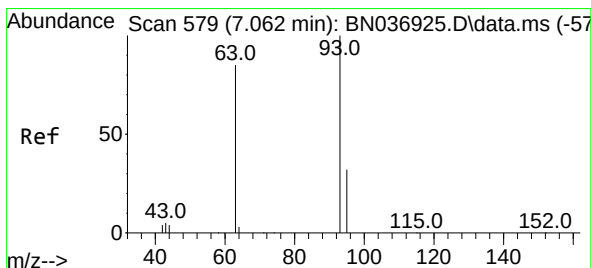
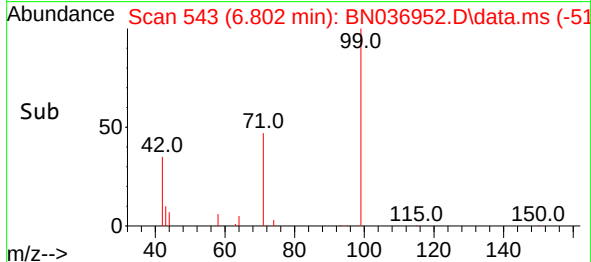
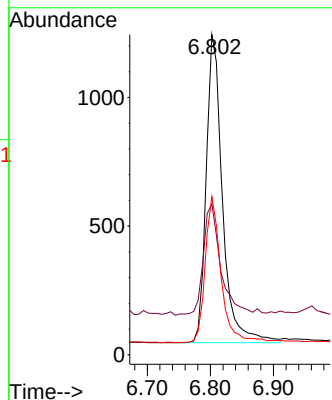
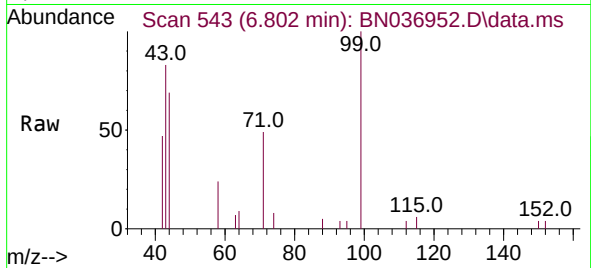




#5
Phenol-d6
Concen: 0.329 ng
RT: 6.802 min Scan# 543
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

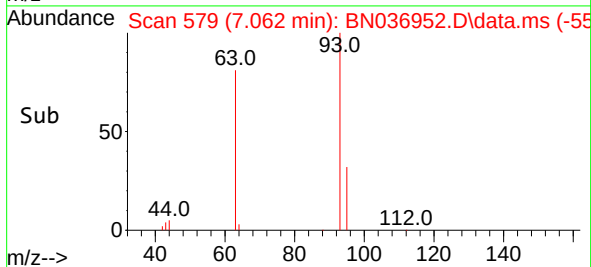
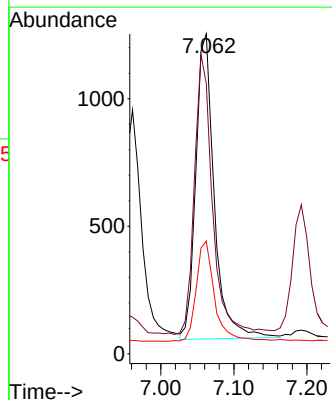
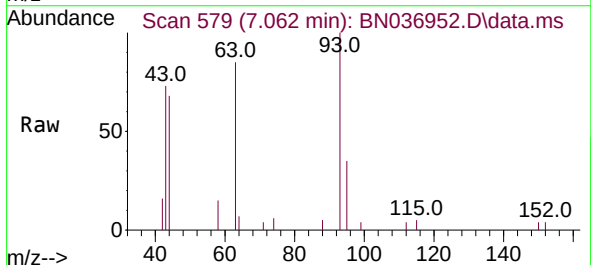
Instrument :
BNA_N
ClientSampleId :
PB167760BS

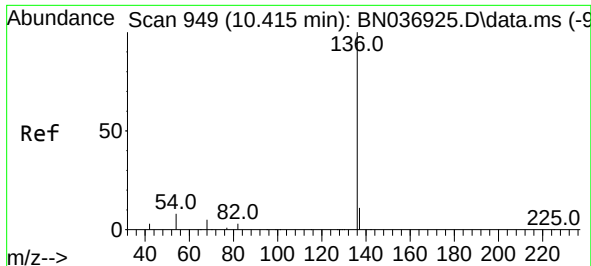
Tgt Ion:	99	Resp:	2148
Ion	Ratio	Lower	Upper
99	100		
42	37.2	29.6	44.4
71	46.3	36.0	54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.347 ng
RT: 7.062 min Scan# 579
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion:	93	Resp:	2097
Ion	Ratio	Lower	Upper
93	100		
63	90.4	69.0	103.6
95	32.7	25.4	38.0

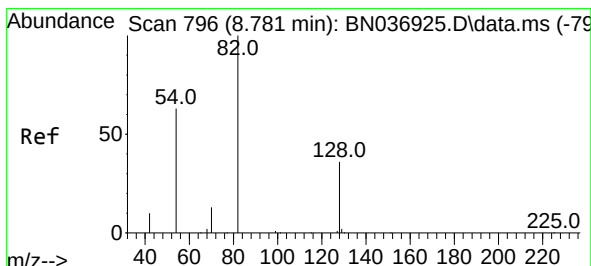
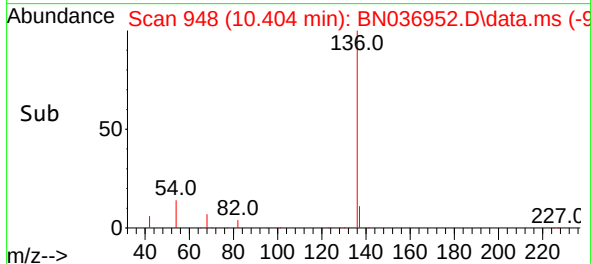
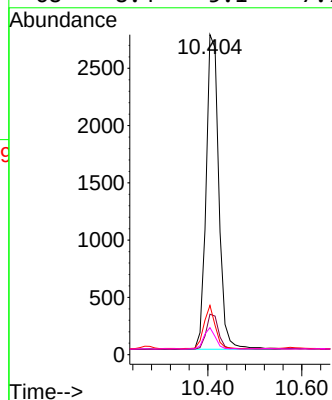
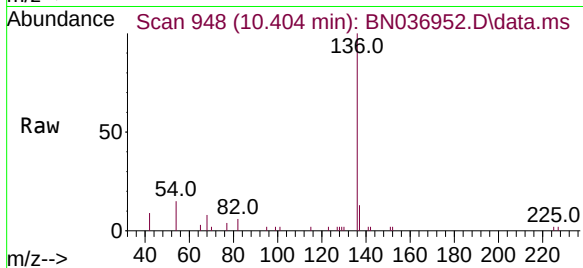




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

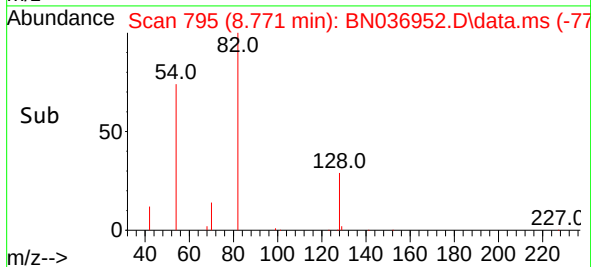
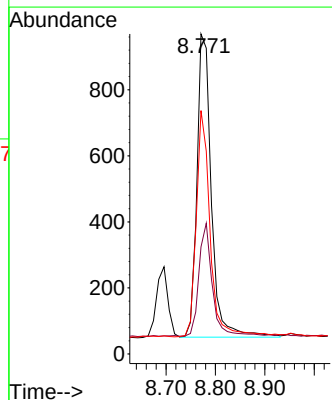
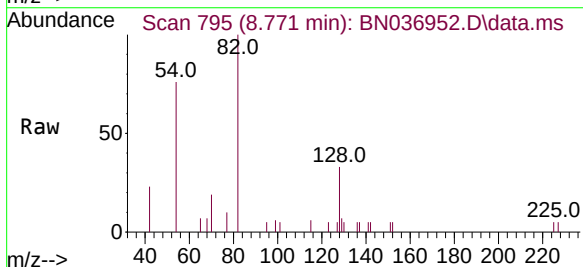
Instrument :
BNA_N
ClientSampleId :
PB167760BS

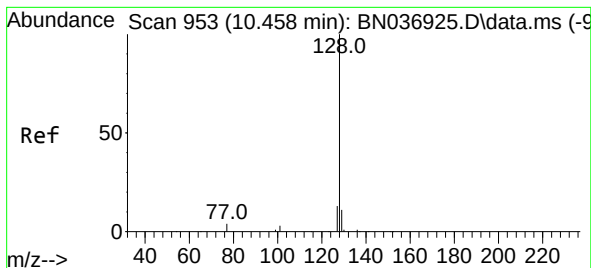
Tgt Ion:	136	Resp:	5162
Ion	Ratio	Lower	Upper
136	100		
137	12.6	9.7	14.5
54	15.4	8.0	12.0#
68	8.4	5.1	7.7#



#8
Nitrobenzene-d5
Concen: 0.345 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion:	82	Resp:	1862
Ion	Ratio	Lower	Upper
82	100		
128	33.4	30.7	46.1
54	76.1	52.1	78.1





#9

Naphthalene

Concen: 0.345 ng

RT: 10.458 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

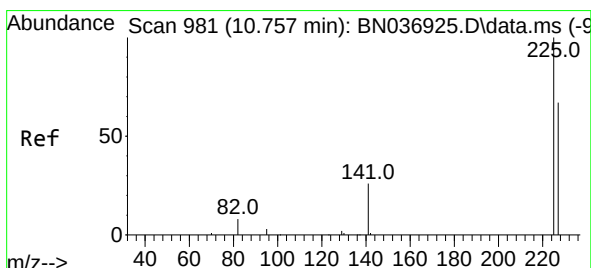
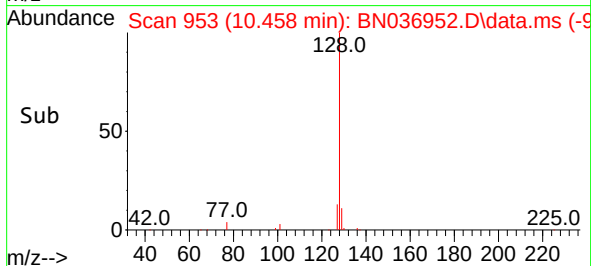
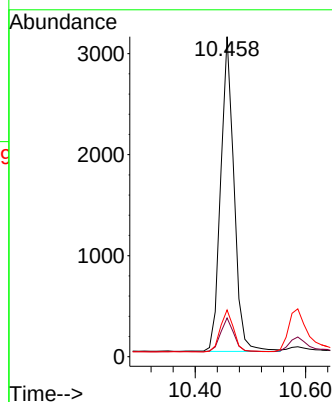
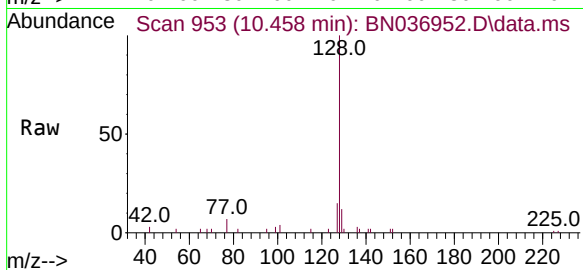
Instrument :

BNA_N

ClientSampleId :

PB167760BS

Tgt Ion:	128	Resp:	5188
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	14.6	11.4	17.2



#10

Hexachlorobutadiene

Concen: 0.368 ng

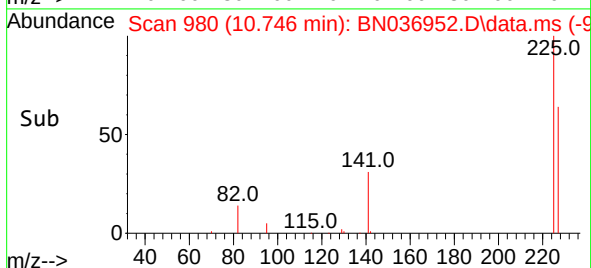
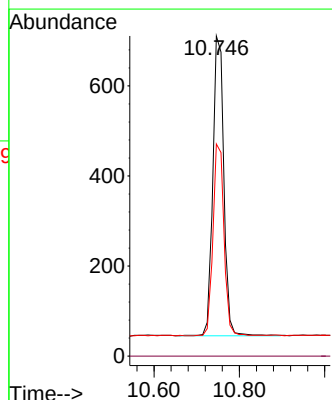
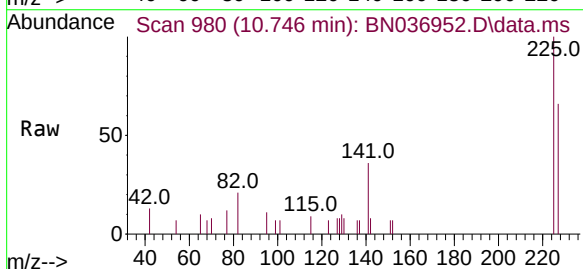
RT: 10.746 min Scan# 980

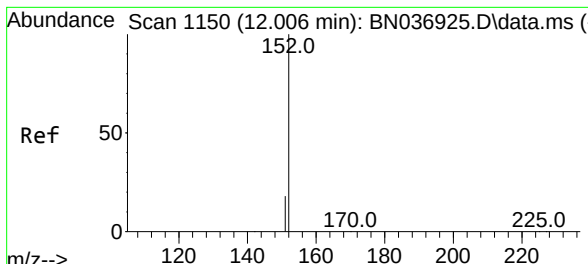
Delta R.T. -0.011 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

Tgt Ion:	225	Resp:	1196
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	52.2	78.4

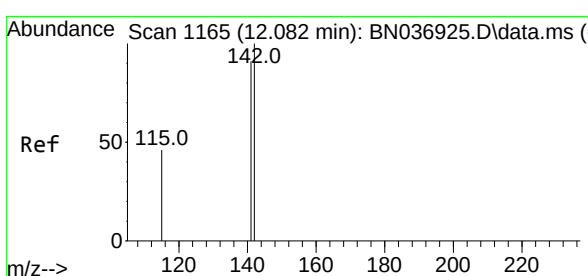
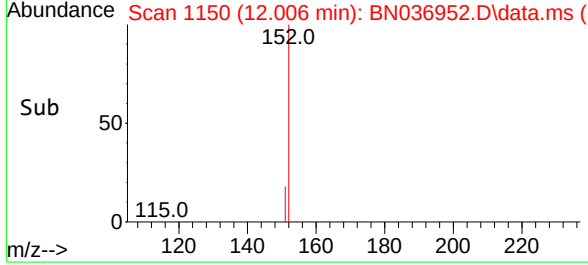
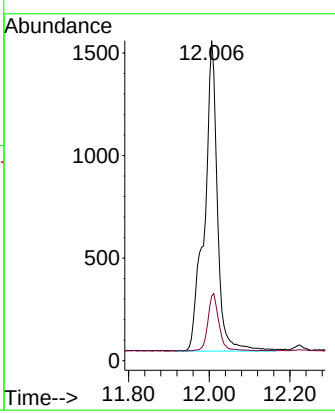
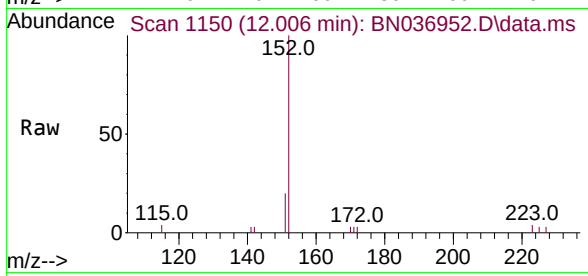




#11
 2-Methylnaphthalene-d10
 Concen: 0.468 ng
 RT: 12.006 min Scan# 1150
 Delta R.T. 0.000 min
 Lab File: BN036952.D
 Acq: 30 Apr 2025 18:17

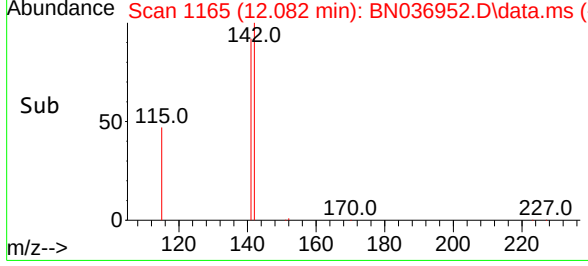
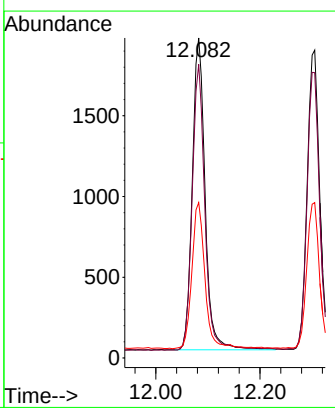
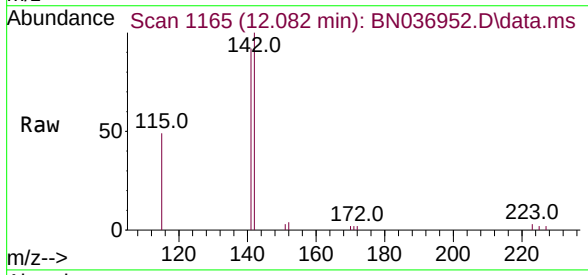
Instrument : BNA_N
 ClientSampleId : PB167760BS

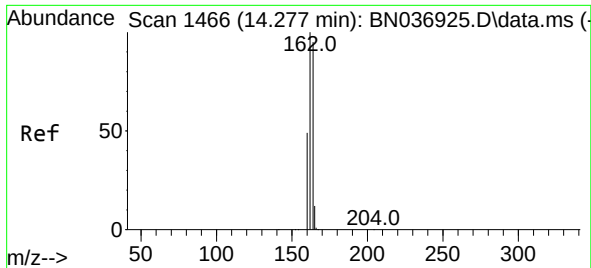
Tgt Ion:152 Resp: 3378
 Ion Ratio Lower Upper
 152 100
 151 15.8 16.9 25.3#



#12
 2-Methylnaphthalene
 Concen: 0.339 ng
 RT: 12.082 min Scan# 1165
 Delta R.T. 0.000 min
 Lab File: BN036952.D
 Acq: 30 Apr 2025 18:17

Tgt Ion:142 Resp: 3288
 Ion Ratio Lower Upper
 142 100
 141 91.8 72.8 109.2
 115 48.6 38.2 57.4

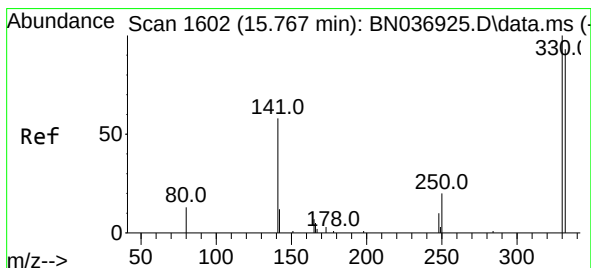
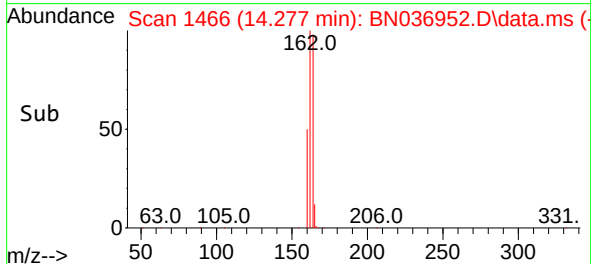
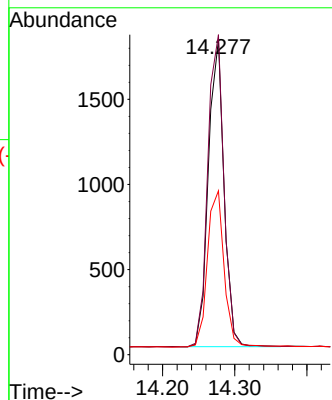
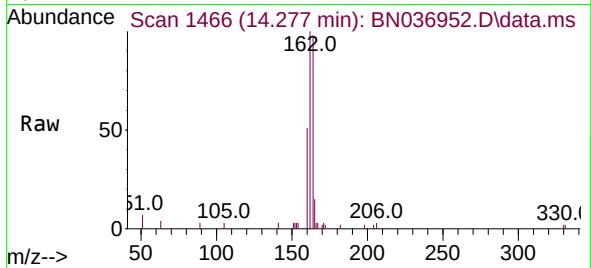




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

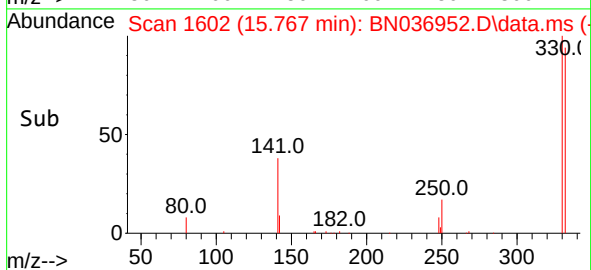
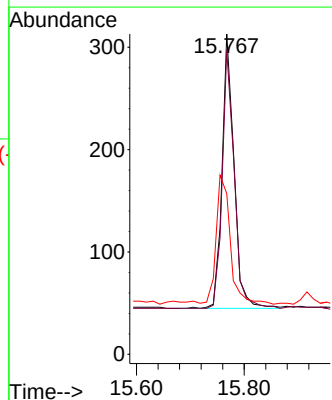
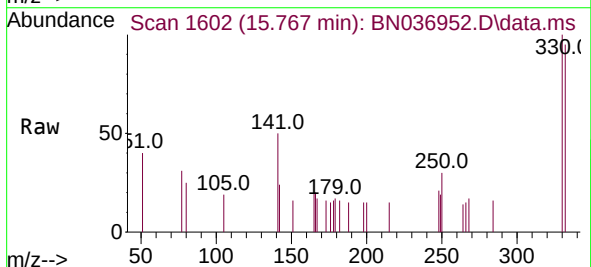
Instrument :
BNA_N
ClientSampleId :
PB167760BS

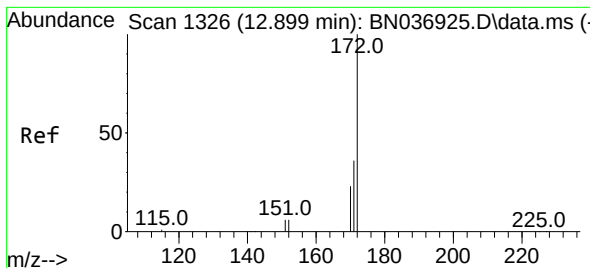
Tgt Ion:164 Resp: 2727
Ion Ratio Lower Upper
164 100
162 101.6 83.8 125.8
160 52.1 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.342 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion:330 Resp: 416
Ion Ratio Lower Upper
330 100
332 93.8 76.3 114.5
141 54.3 45.4 68.2





#15

2-Fluorobiphenyl

Concen: 0.314 ng

RT: 12.894 min Scan# 1439

Delta R.T. -0.005 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

Instrument :

BNA_N

ClientSampleId :

PB167760BS

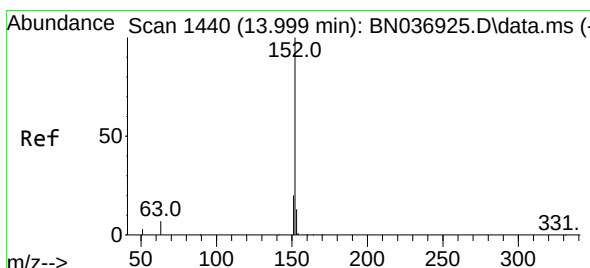
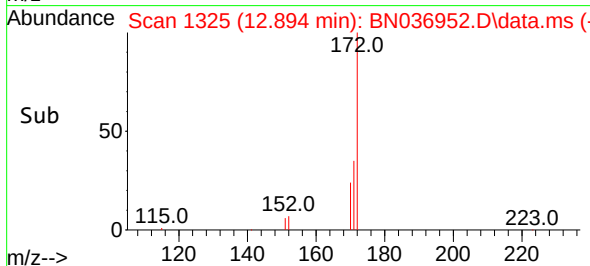
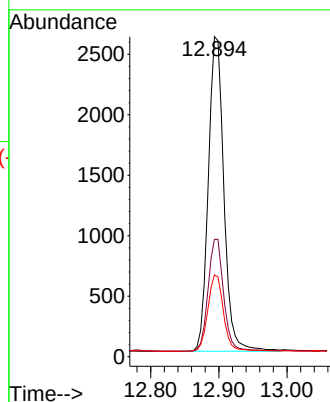
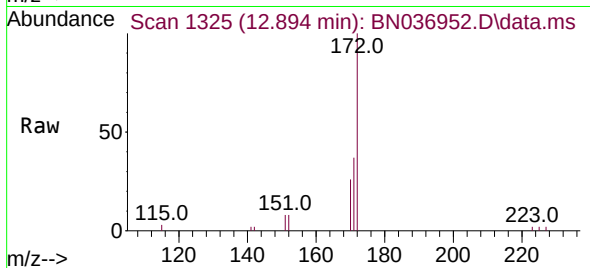
Tgt Ion:172 Resp: 4134

Ion Ratio Lower Upper

172 100

171 36.7 29.4 44.0

170 25.6 19.4 29.0



#16

Acenaphthylene

Concen: 0.362 ng

RT: 13.989 min Scan# 1439

Delta R.T. -0.011 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

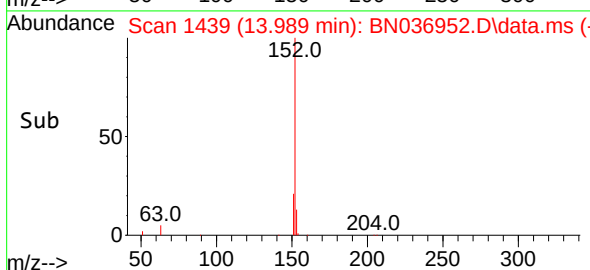
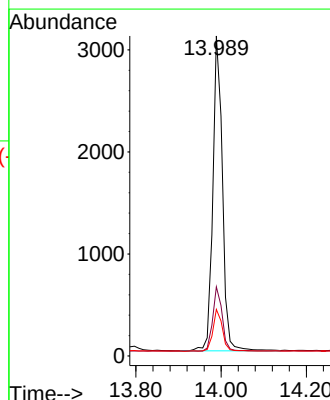
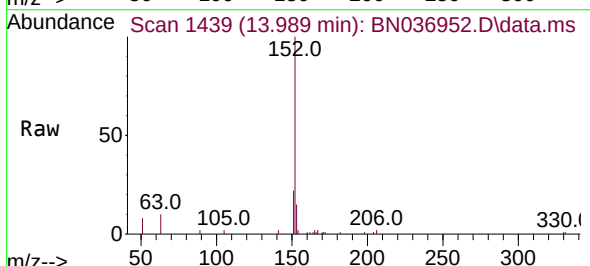
Tgt Ion:152 Resp: 4827

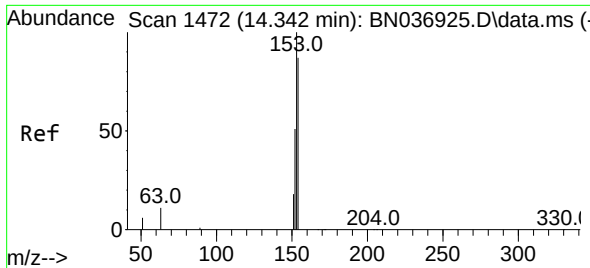
Ion Ratio Lower Upper

152 100

151 20.3 16.0 24.0

153 13.3 10.2 15.2

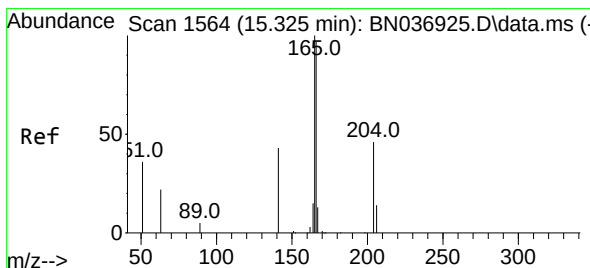
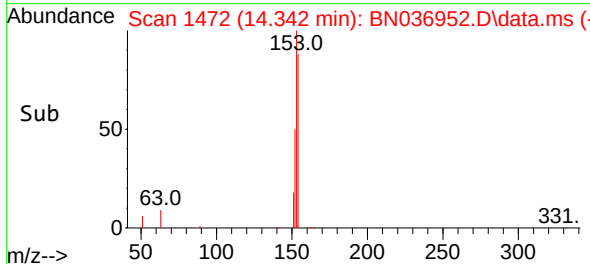
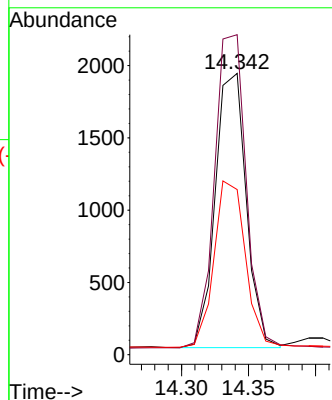
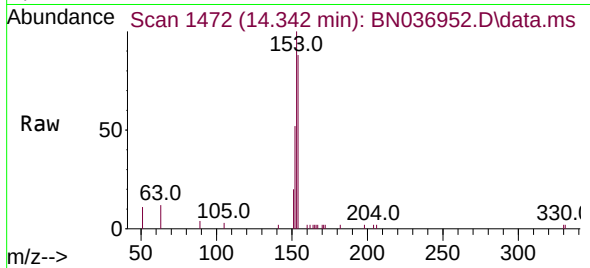




#17
Acenaphthene
Concen: 0.350 ng
RT: 14.342 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

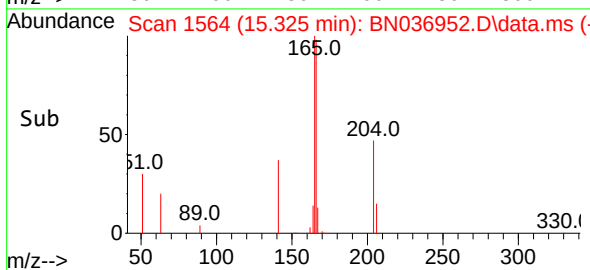
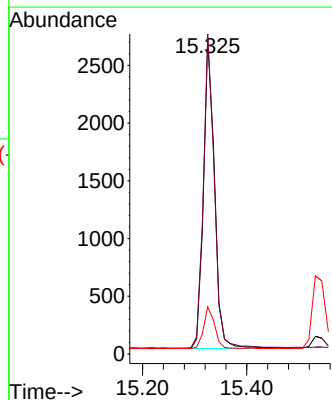
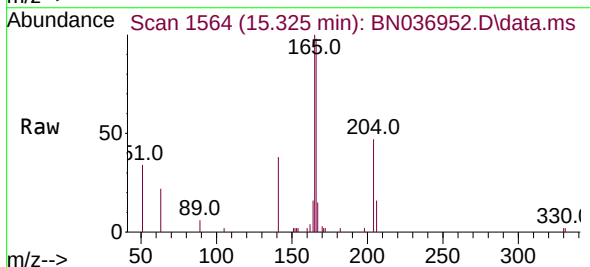
Instrument :
BNA_N
ClientSampleId :
PB167760BS

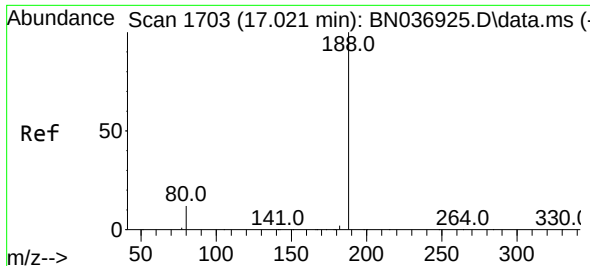
Tgt Ion:154 Resp: 3061
Ion Ratio Lower Upper
154 100
153 117.0 93.4 140.2
152 62.4 49.5 74.3



#18
Fluorene
Concen: 0.345 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion:166 Resp: 3953
Ion Ratio Lower Upper
166 100
165 100.9 80.8 121.2
167 13.4 10.8 16.2

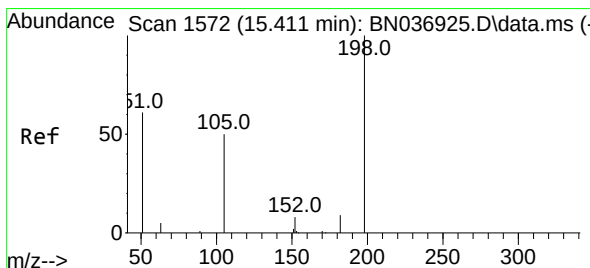
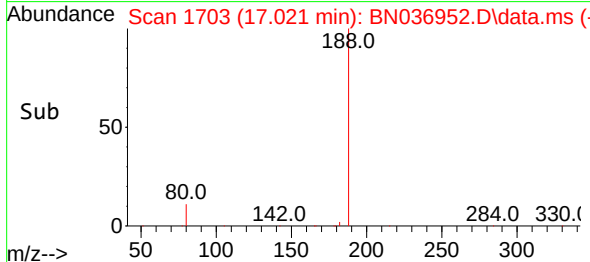
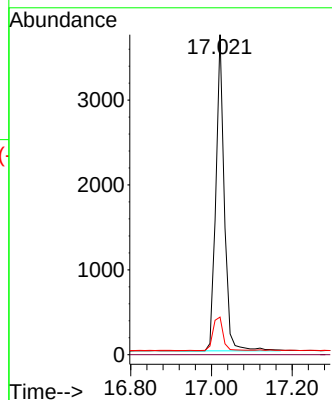
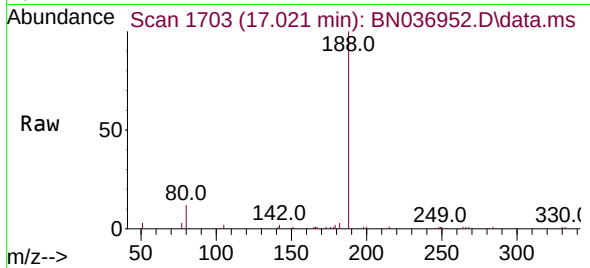




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

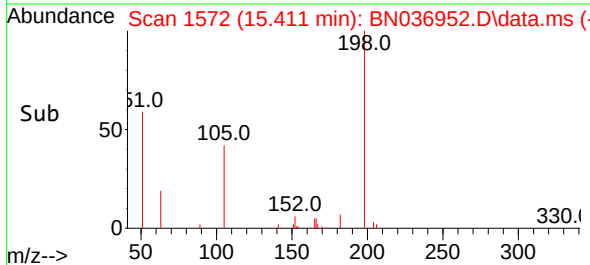
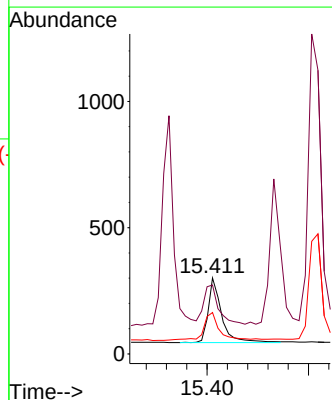
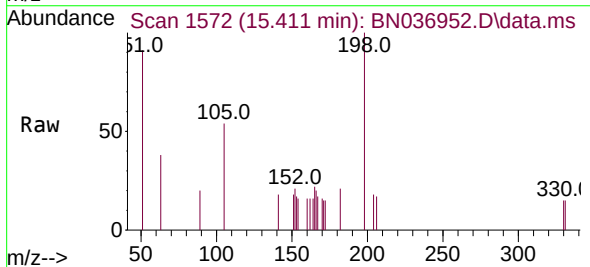
Instrument :
BNA_N
ClientSampleId :
PB167760BS

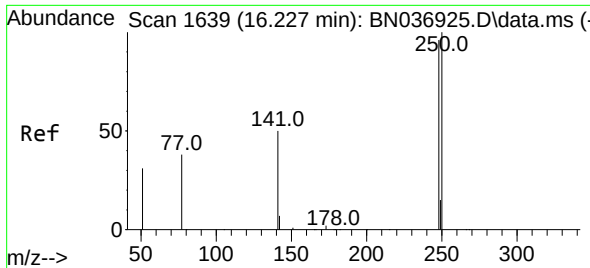
Tgt Ion:188 Resp: 5423
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.7 10.7 16.1



#20
4,6-Dinitro-2-methylphenol
Concen: 0.335 ng
RT: 15.411 min Scan# 1572
Delta R.T. -0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion:198 Resp: 481
Ion Ratio Lower Upper
198 100
51 90.7 97.9 146.9#
105 54.5 50.0 75.0

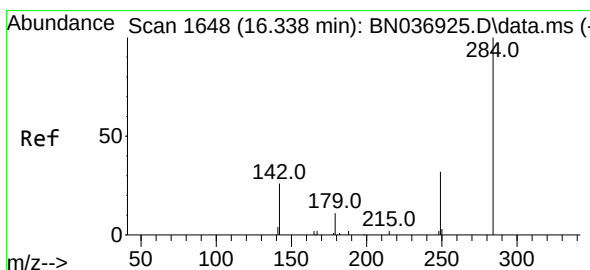
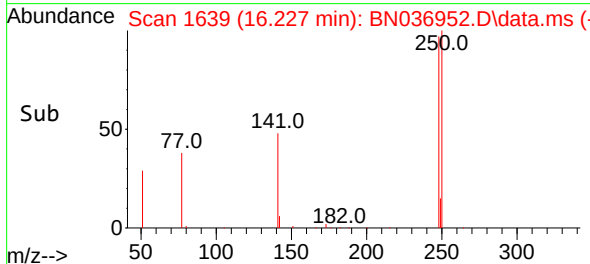
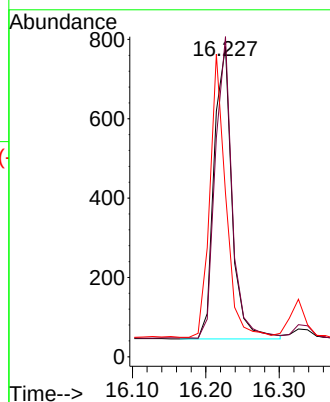
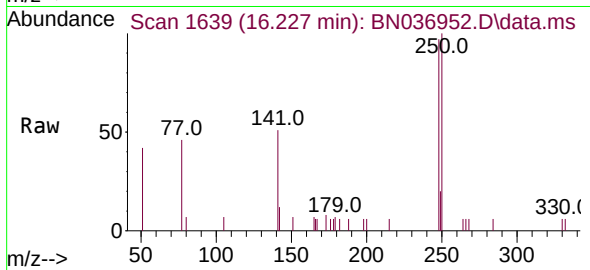




#21
4-Bromophenyl-phenylether
Concen: 0.346 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

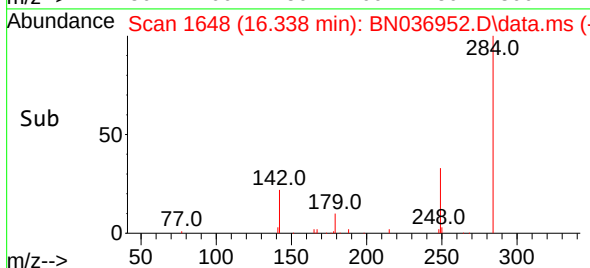
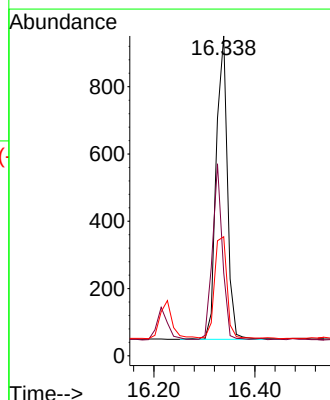
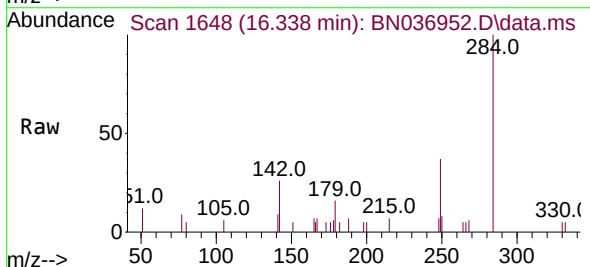
Instrument :
BNA_N
ClientSampleId :
PB167760BS

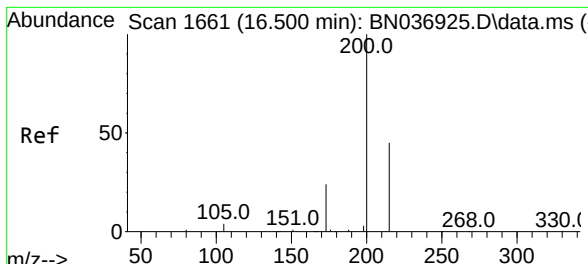
Tgt Ion:	248	Resp:	1251
Ion	Ratio	Lower	Upper
248	100		
250	103.2	83.7	125.5
141	52.8	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.348 ng
RT: 16.338 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion:	284	Resp:	1382
Ion	Ratio	Lower	Upper
284	100		
142	52.0	40.0	60.0
249	38.1	28.2	42.2

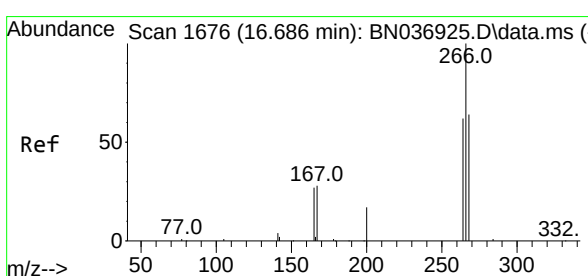
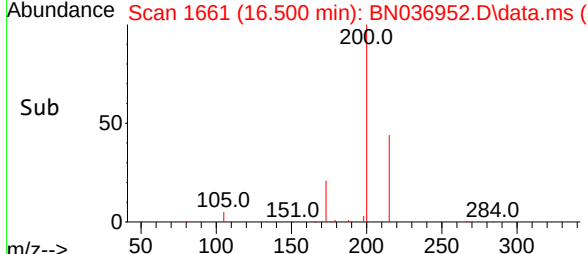
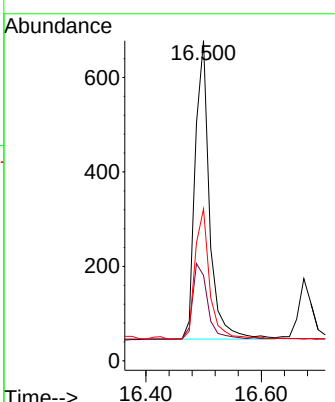
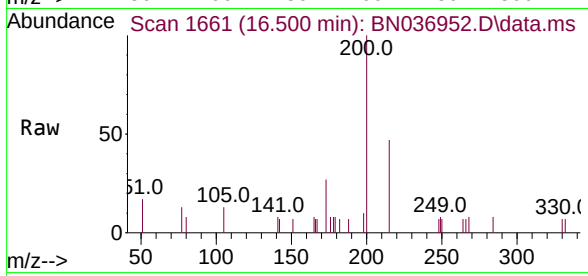




#23
Atrazine
 Concen: 0.374 ng
 RT: 16.500 min Scan# 1661
 Delta R.T. 0.000 min
 Lab File: BN036952.D
 Acq: 30 Apr 2025 18:17

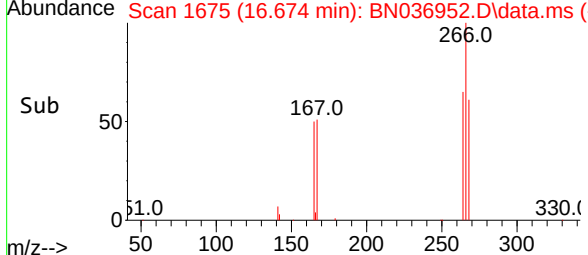
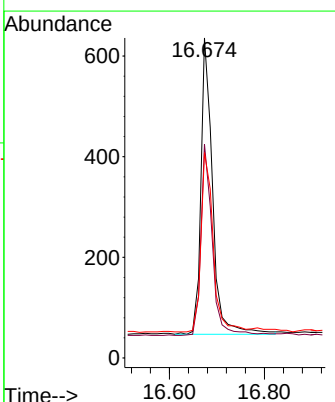
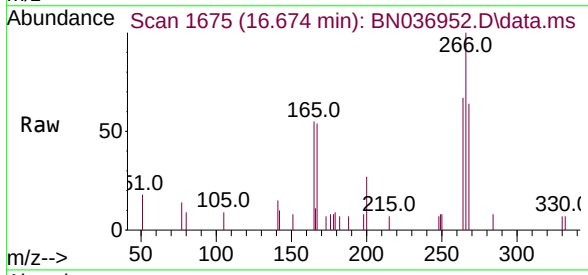
Instrument :
 BNA_N
ClientSampleId :
 PB167760BS

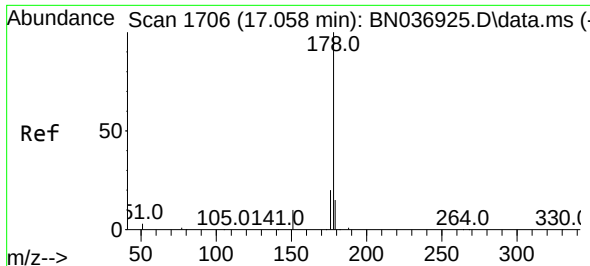
Tgt Ion:	200	Resp:	1092
Ion Ratio	Lower	Upper	
200	100		
173	26.7	22.4	33.6
215	47.5	38.6	57.8



#24
Pentachlorophenol
 Concen: 0.474 ng
 RT: 16.674 min Scan# 1675
 Delta R.T. -0.012 min
 Lab File: BN036952.D
 Acq: 30 Apr 2025 18:17

Tgt Ion:	266	Resp:	1008
Ion Ratio	Lower	Upper	
266	100		
264	63.2	49.9	74.9
268	63.3	52.2	78.4

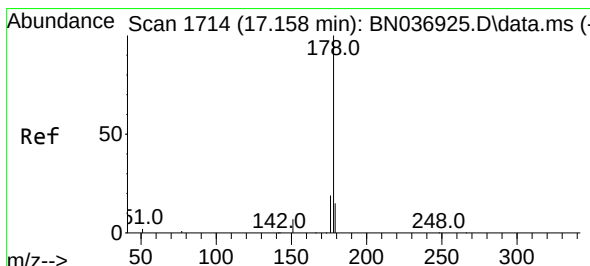
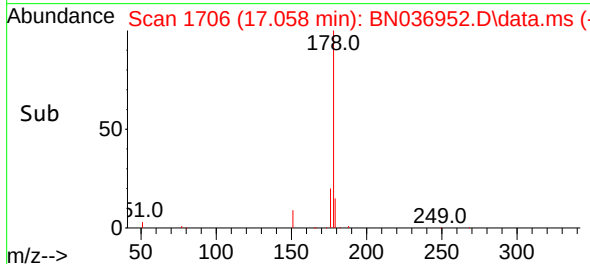
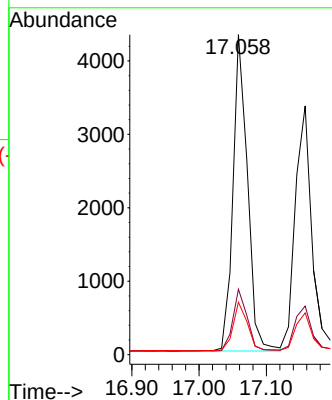
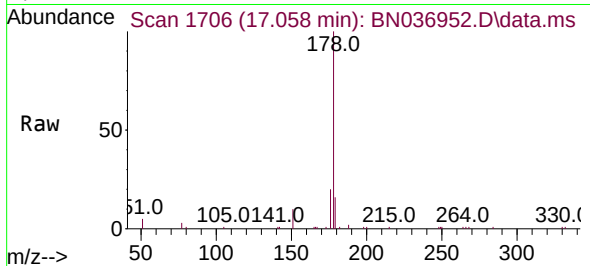




#25
Phenanthrene
Concen: 0.358 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

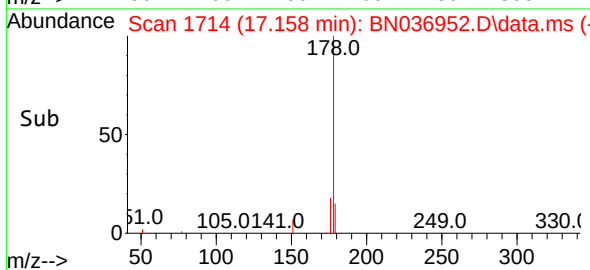
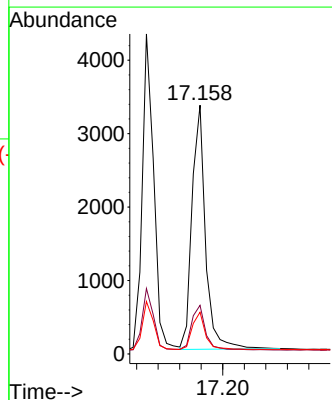
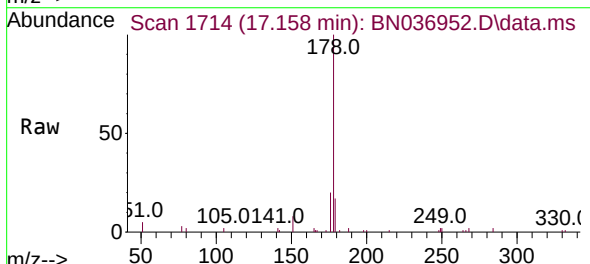
Instrument :
BNA_N
ClientSampleId :
PB167760BS

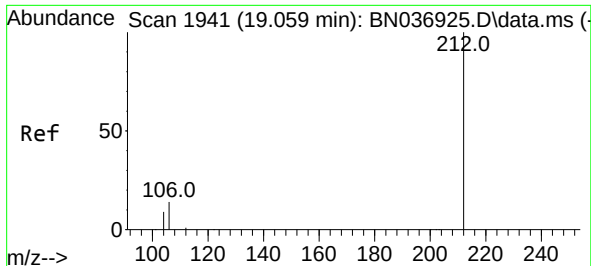
Tgt Ion:178 Resp: 6409
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.4 12.4 18.6



#26
Anthracene
Concen: 0.359 ng
RT: 17.158 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion:178 Resp: 5818
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.0 12.1 18.1

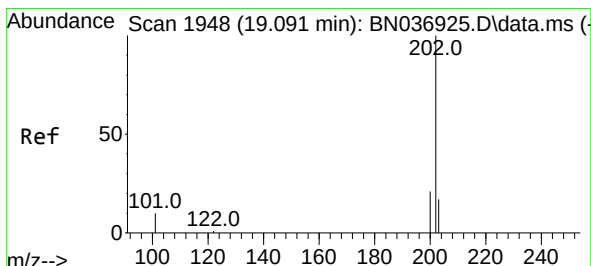
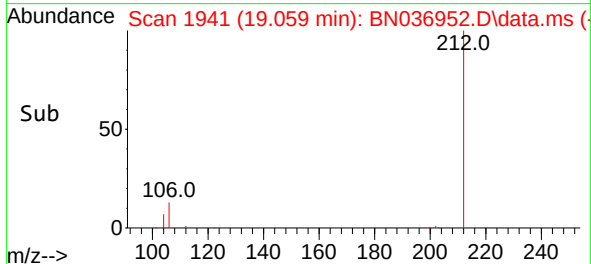
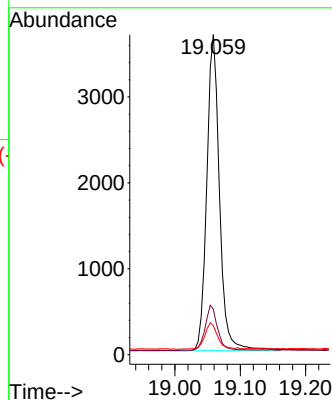
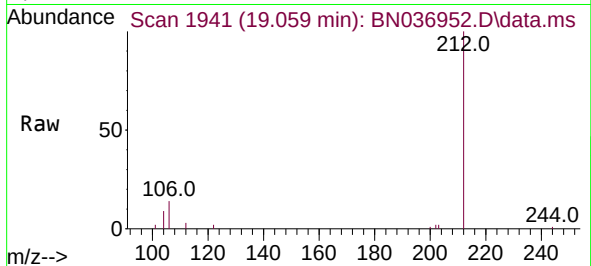




#27
Fluoranthene-d10
Concen: 0.353 ng
RT: 19.059 min Scan# 1941
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

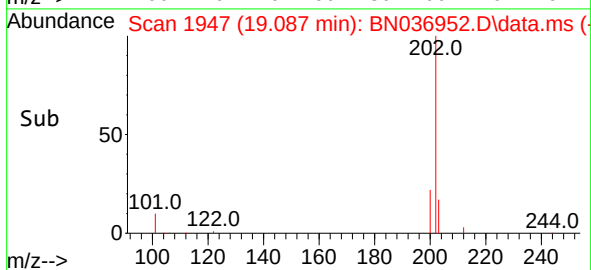
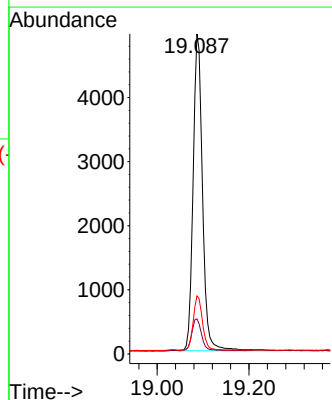
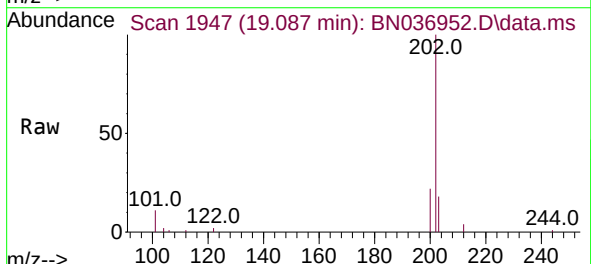
Instrument :
BNA_N
ClientSampleId :
PB167760BS

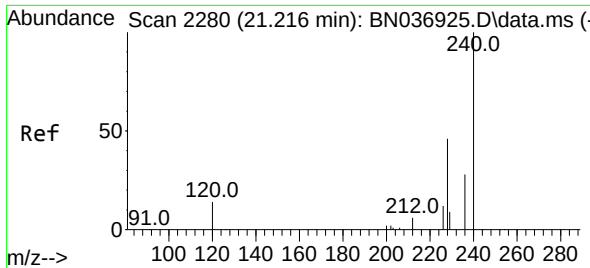
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.6	17.4
104	8.4	7.0	10.4



#28
Fluoranthene
Concen: 0.349 ng
RT: 19.087 min Scan# 1947
Delta R.T. -0.005 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

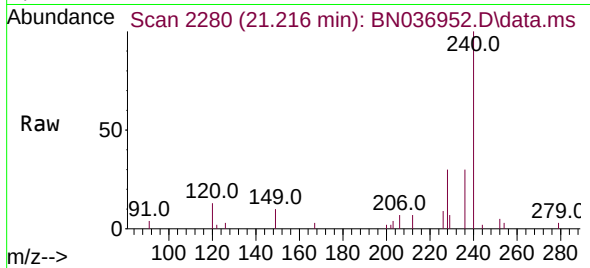
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.5	8.5	12.7
203	17.0	13.7	20.5



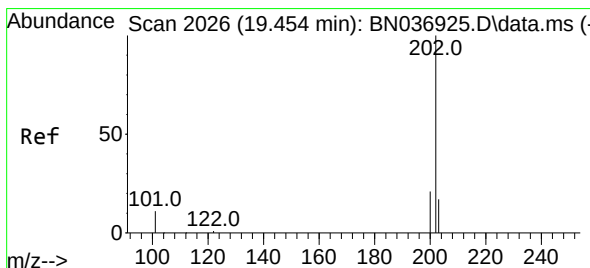
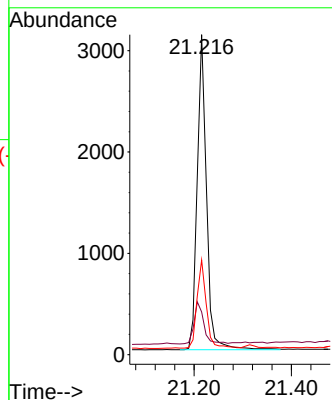
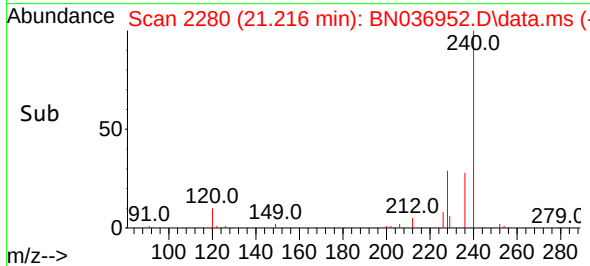


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.216 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

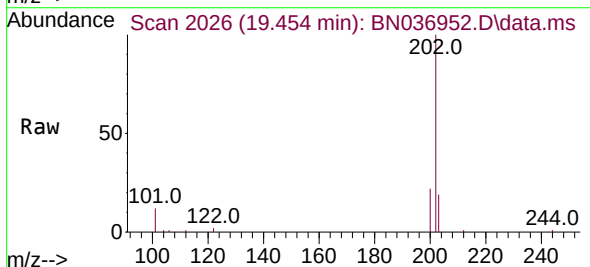
Instrument :
BNA_N
ClientSampleId :
PB167760BS



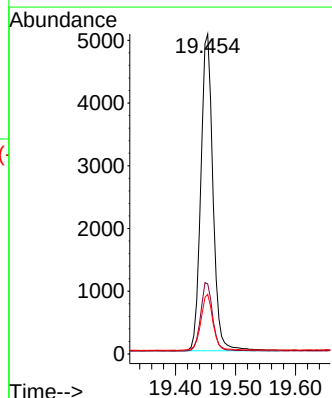
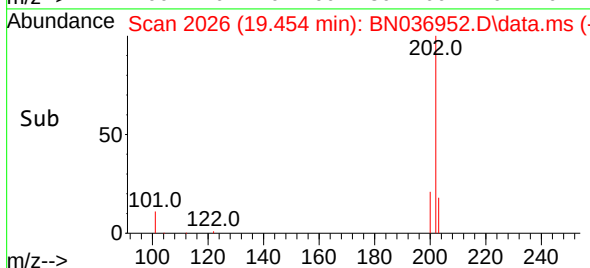
Tgt Ion:240 Resp: 4126
Ion Ratio Lower Upper
240 100
120 13.4 14.1 21.1#
236 29.6 23.8 35.8

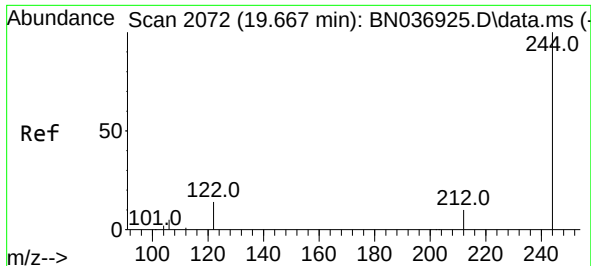


#30
Pyrene
Concen: 0.357 ng
RT: 19.454 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17



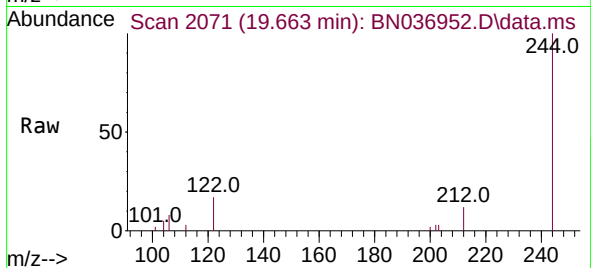
Tgt Ion:202 Resp: 7102
Ion Ratio Lower Upper
202 100
200 21.5 17.0 25.6
203 17.9 14.0 21.0



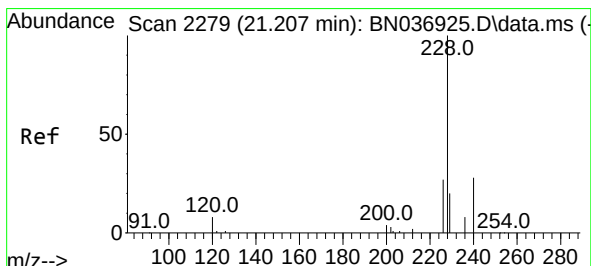
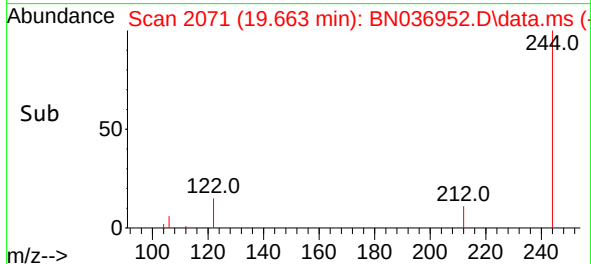
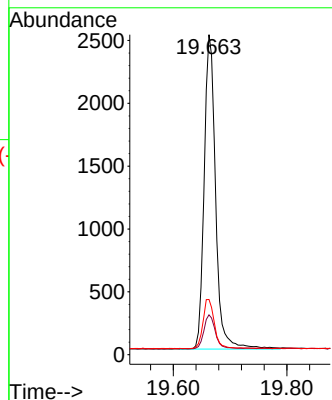


#31
 Terphenyl-d14
 Concen: 0.359 ng
 RT: 19.663 min Scan# 2071
 Delta R.T. -0.005 min
 Lab File: BN036952.D
 Acq: 30 Apr 2025 18:17

Instrument :
 BNA_N
 ClientSampleId :
 PB167760BS

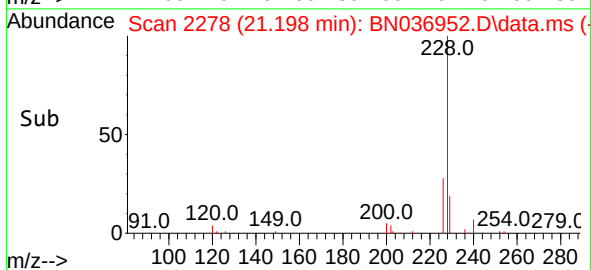
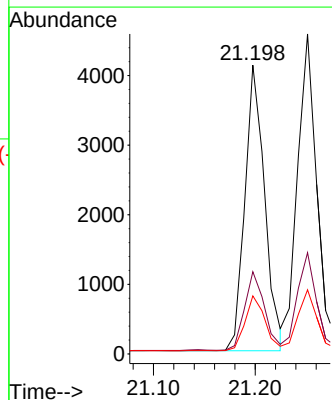
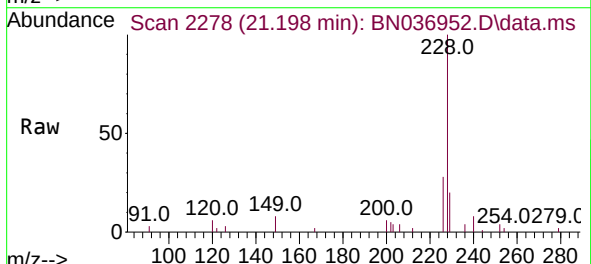


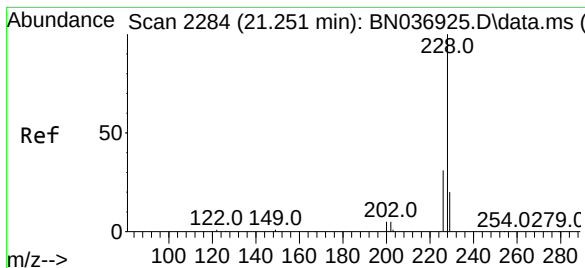
Tgt Ion:244 Resp: 3494
 Ion Ratio Lower Upper
 244 100
 212 12.5 9.6 14.4
 122 17.2 12.7 19.1



#32
 Benzo(a)anthracene
 Concen: 0.365 ng
 RT: 21.198 min Scan# 2278
 Delta R.T. -0.009 min
 Lab File: BN036952.D
 Acq: 30 Apr 2025 18:17

Tgt Ion:228 Resp: 5546
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.2 33.4
 229 20.1 16.4 24.6





#33

Chrysene

Concen: 0.381 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

Instrument :

BNA_N

ClientSampleId :

PB167760BS

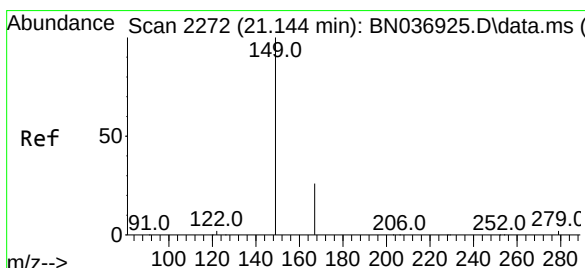
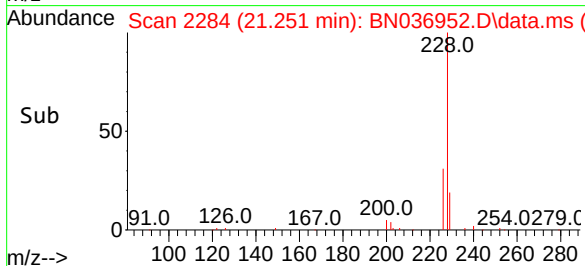
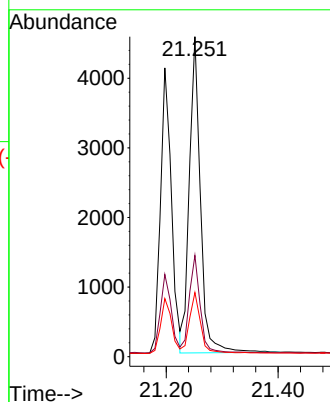
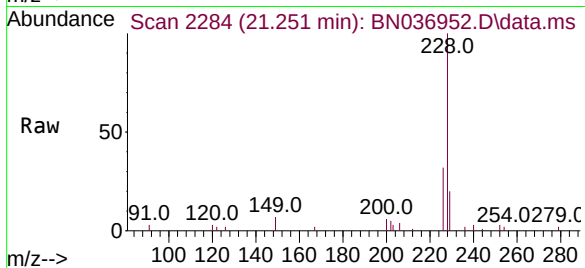
Tgt Ion:228 Resp: 6250

Ion Ratio Lower Upper

228 100

226 31.6 25.5 38.3

229 20.0 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.359 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

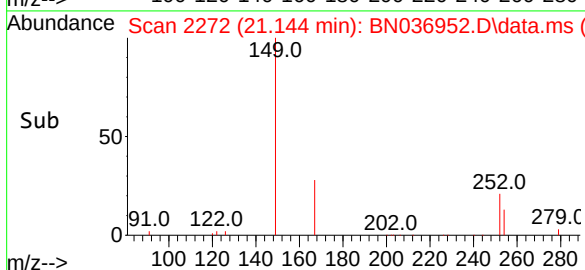
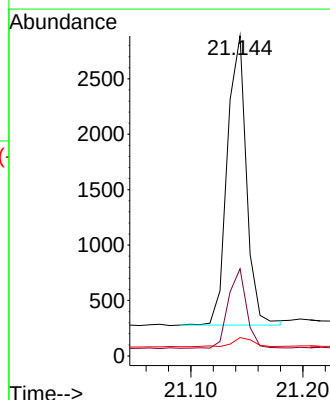
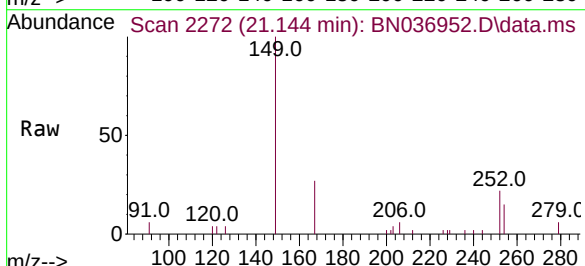
Tgt Ion:149 Resp: 3105

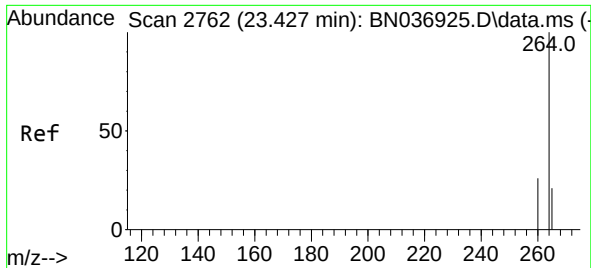
Ion Ratio Lower Upper

149 100

167 26.3 21.0 31.6

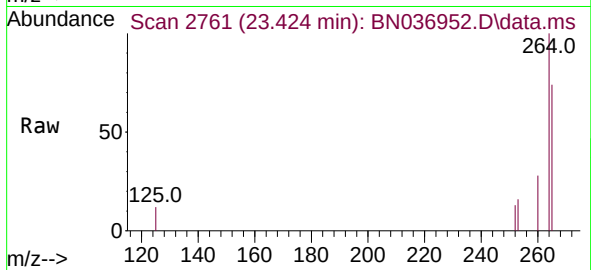
279 3.3 2.7 4.1



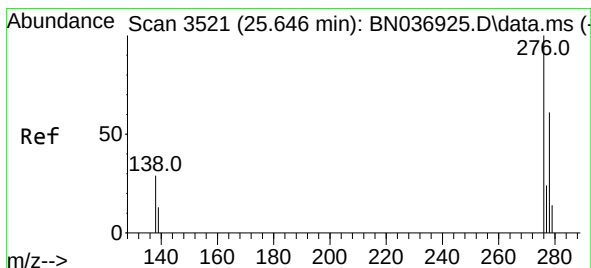
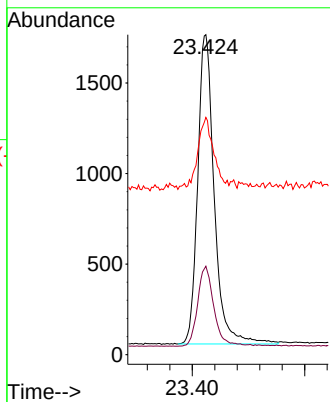
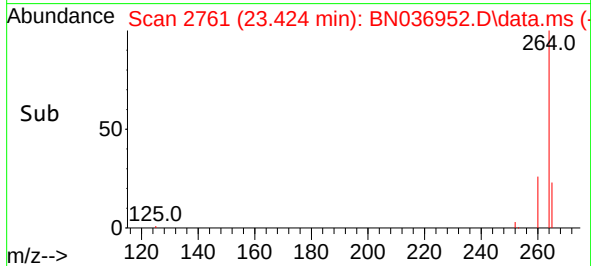


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.424 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Instrument :
BNA_N
ClientSampleId :
PB167760BS

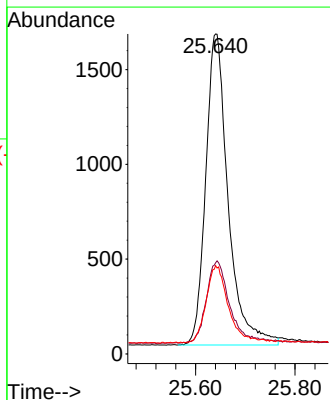
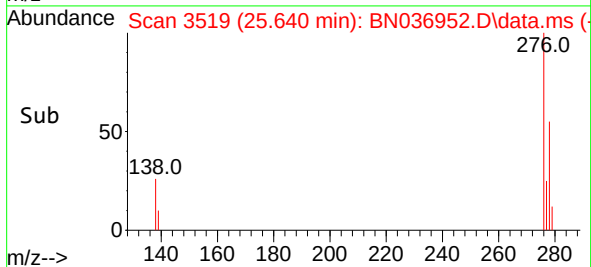
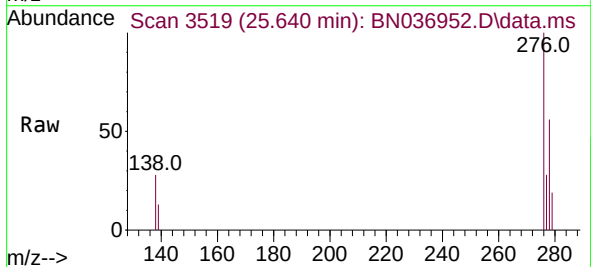


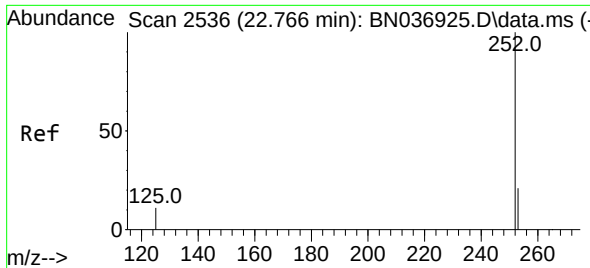
Tgt Ion:264 Resp: 3488
Ion Ratio Lower Upper
264 100
260 27.7 22.2 33.2
265 74.1 65.8 98.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.361 ng
RT: 25.640 min Scan# 3519
Delta R.T. -0.006 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

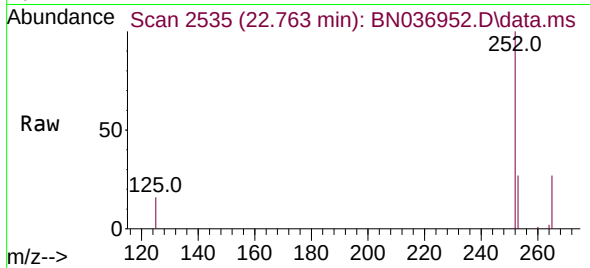
Tgt Ion:276 Resp: 5142
Ion Ratio Lower Upper
276 100
138 27.1 23.0 34.6
277 24.3 20.0 30.0



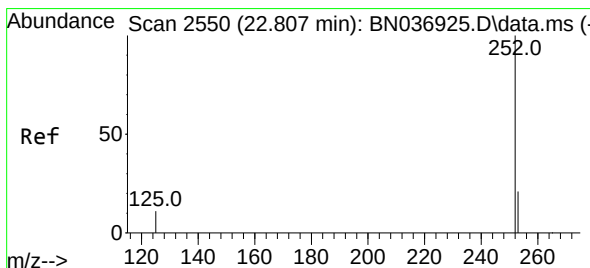
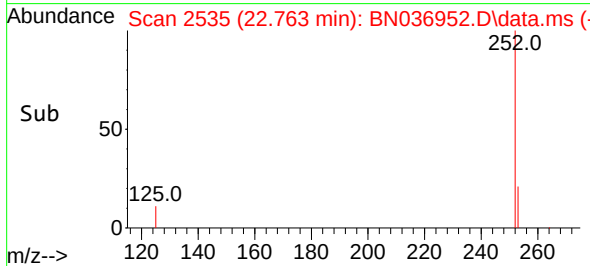
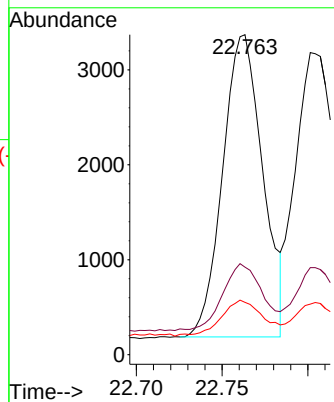


#37
Benzo(b)fluoranthene
Concen: 0.352 ng
RT: 22.763 min Scan# 2535
Delta R.T. -0.003 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Instrument :
BNA_N
ClientSampleId :
PB167760BS

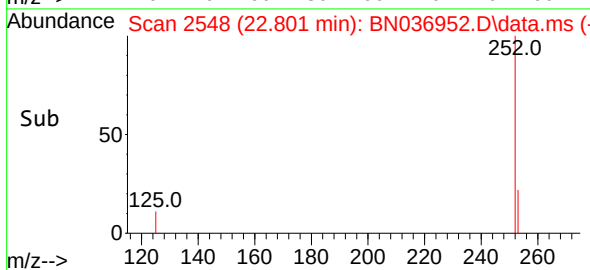
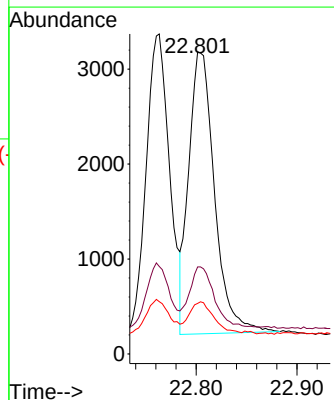
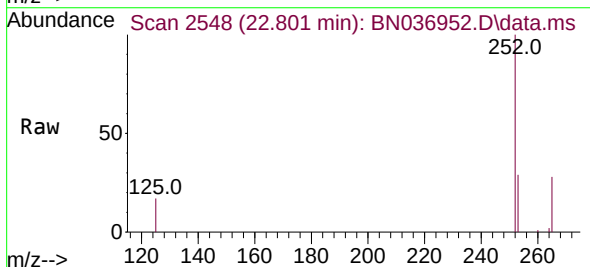


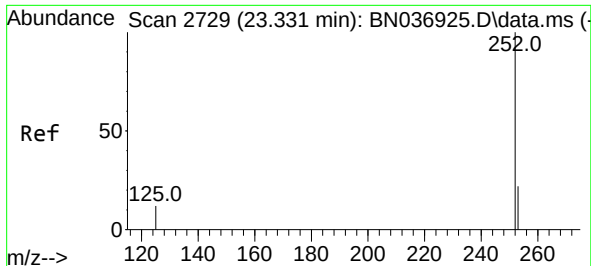
Tgt Ion:252 Resp: 5169
Ion Ratio Lower Upper
252 100
253 27.4 22.1 33.1
125 16.4 14.2 21.2



#38
Benzo(k)fluoranthene
Concen: 0.358 ng
RT: 22.801 min Scan# 2548
Delta R.T. -0.006 min
Lab File: BN036952.D
Acq: 30 Apr 2025 18:17

Tgt Ion:252 Resp: 5282
Ion Ratio Lower Upper
252 100
253 28.8 22.8 34.2
125 16.7 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.373 ng

RT: 23.328 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

Instrument :

BNA_N

ClientSampleId :

PB167760BS

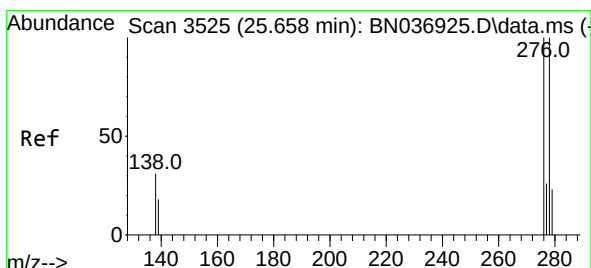
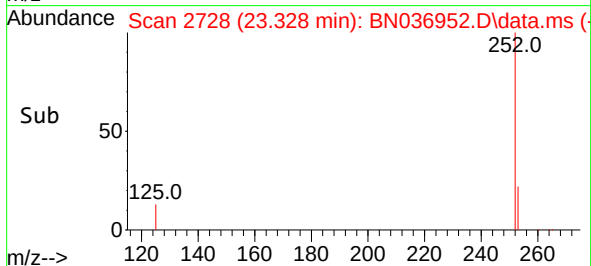
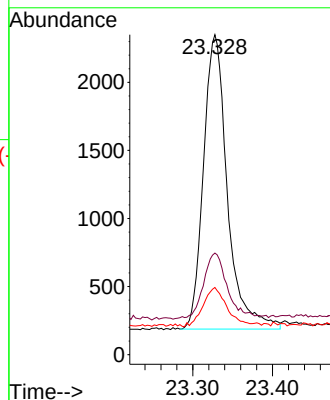
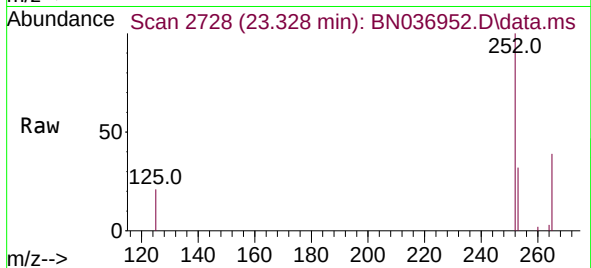
Tgt Ion:252 Resp: 4501

Ion Ratio Lower Upper

252 100

253 31.7 25.9 38.9

125 21.0 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.353 ng

RT: 25.652 min Scan# 3523

Delta R.T. -0.006 min

Lab File: BN036952.D

Acq: 30 Apr 2025 18:17

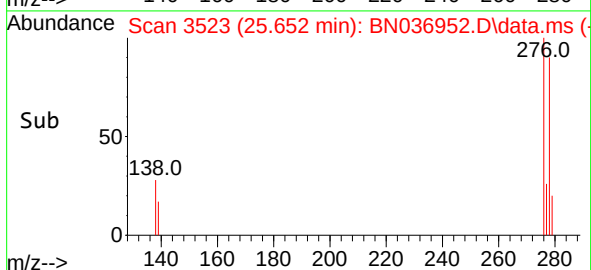
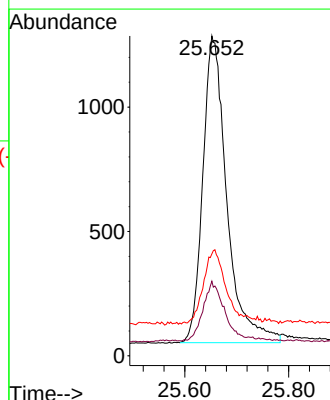
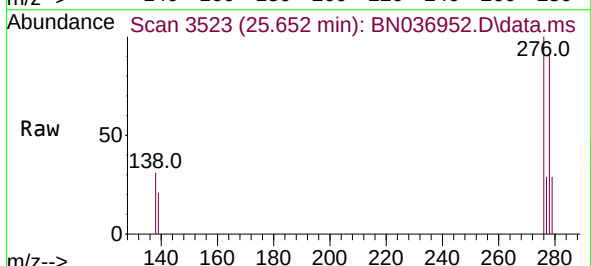
Tgt Ion:278 Resp: 3958

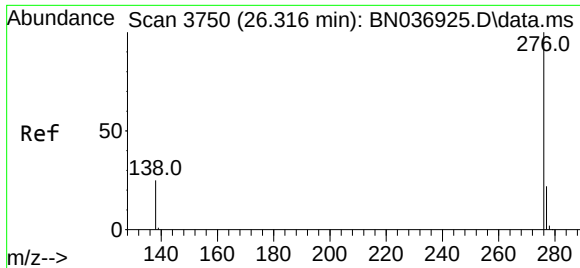
Ion Ratio Lower Upper

278 100

139 23.3 17.4 26.2

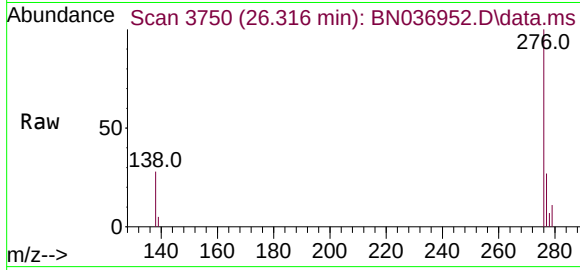
279 31.9 24.9 37.3



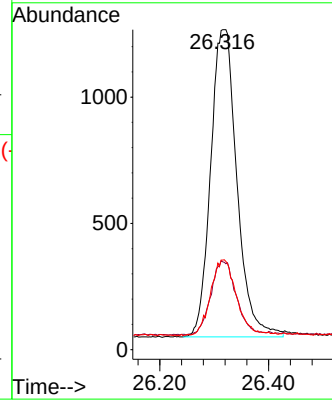
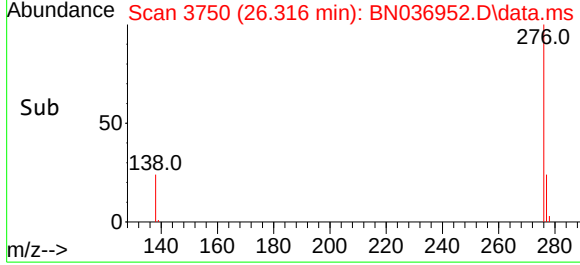


#41
 Benzo(g,h,i)perylene
 Concen: 0.328 ng
 RT: 26.316 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN036952.D
 Acq: 30 Apr 2025 18:17

Instrument :
 BNA_N
 ClientSampleId :
 PB167760BS



Tgt Ion:	276	Resp:	4079
Ion	Ratio	Lower	Upper
276	100		
277	27.5	20.2	30.2
138	28.0	21.9	32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
 Data File : BN036953.D
 Acq On : 30 Apr 2025 18:53
 Operator : RC/JU
 Sample : PB167760BSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167760BSD

Quant Time: May 01 01:13:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

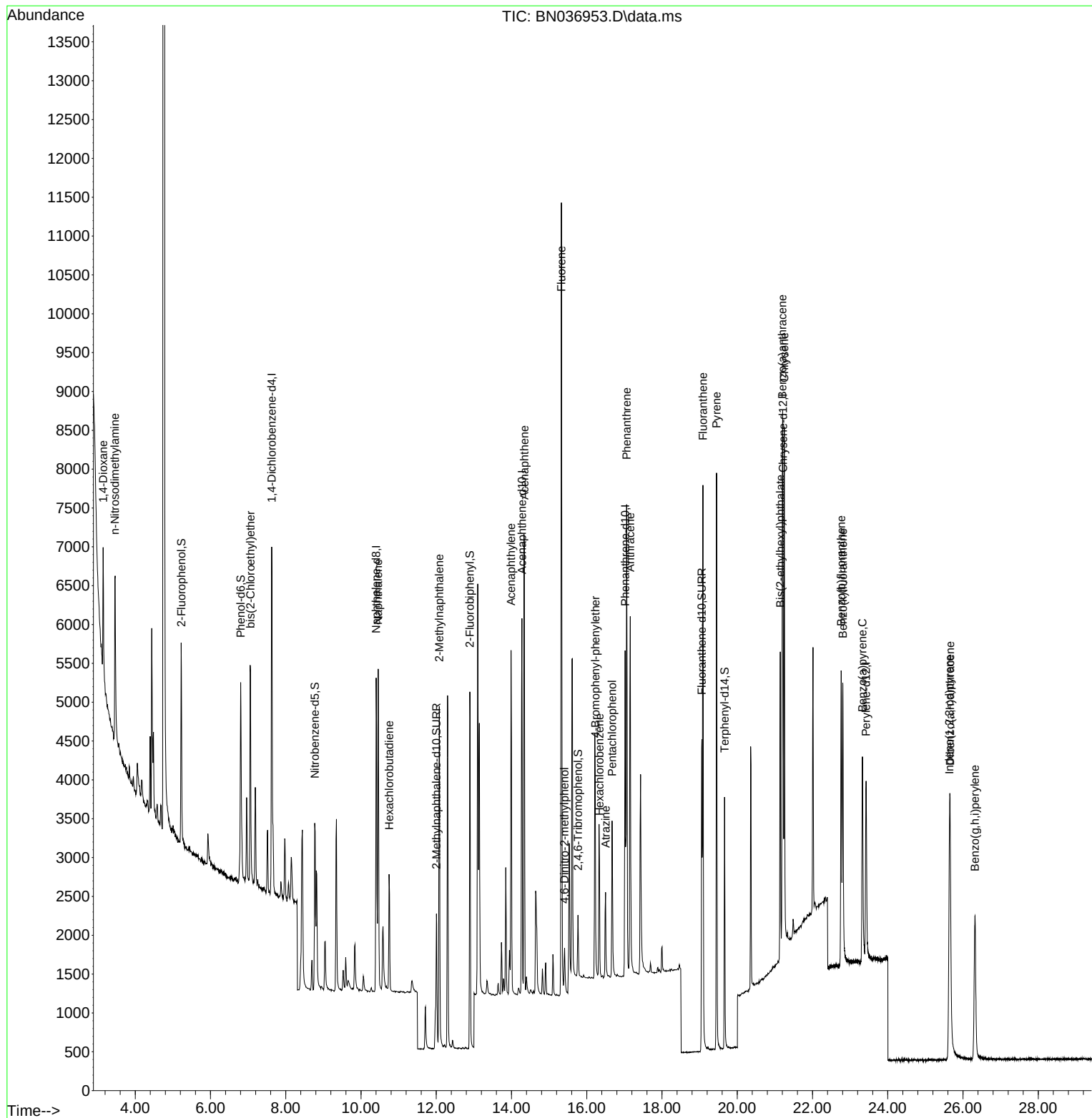
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.625	152	2106	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	5174	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	2716	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5366	0.400	ng	0.00
29) Chrysene-d12	21.215	240	3877	0.400	ng	# 0.00
35) Perylene-d12	23.424	264	3193	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	1814	0.337	ng	0.00
5) Phenol-d6	6.802	99	2101	0.317	ng	0.00
8) Nitrobenzene-d5	8.771	82	1831	0.338	ng	-0.01
11) 2-Methylnaphthalene-d10	12.006	152	3275	0.453	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	410	0.339	ng	0.00
15) 2-Fluorobiphenyl	12.894	172	4059	0.309	ng	0.00
27) Fluoranthene-d10	19.059	212	4698	0.338	ng	0.00
31) Terphenyl-d14	19.663	244	3275	0.358	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.148	88	716	0.273	ng	# 37
3) n-Nitrosodimethylamine	3.458	42	1976	0.388	ng	91
6) bis(2-Chloroethyl)ether	7.062	93	2121	0.345	ng	99
9) Naphthalene	10.458	128	5175	0.344	ng	99
10) Hexachlorobutadiene	10.746	225	1181	0.362	ng	# 99
12) 2-Methylnaphthalene	12.082	142	3231	0.332	ng	99
16) Acenaphthylene	13.989	152	4751	0.358	ng	99
17) Acenaphthene	14.341	154	3015	0.346	ng	100
18) Fluorene	15.325	166	3898	0.342	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	468	0.329	ng	# 76
21) 4-Bromophenyl-phenylether	16.227	248	1212	0.338	ng	99
22) Hexachlorobenzene	16.338	284	1353	0.345	ng	96
23) Atrazine	16.500	200	1038	0.359	ng	99
24) Pentachlorophenol	16.673	266	985	0.468	ng	99
25) Phenanthrene	17.058	178	6172	0.348	ng	100
26) Anthracene	17.158	178	5592	0.349	ng	99
28) Fluoranthene	19.087	202	6658	0.335	ng	99
30) Pyrene	19.449	202	6741	0.361	ng	100
32) Benzo(a)anthracene	21.198	228	5104	0.357	ng	99
33) Chrysene	21.251	228	5714	0.371	ng	100
34) Bis(2-ethylhexyl)phtha...	21.144	149	2825	0.348	ng	99
36) Indeno(1,2,3-cd)pyrene	25.640	276	4773	0.366	ng	98
37) Benzo(b)fluoranthene	22.760	252	4625	0.344	ng	98
38) Benzo(k)fluoranthene	22.804	252	4890	0.362	ng	99
39) Benzo(a)pyrene	23.328	252	4098	0.371	ng	99
40) Dibenzo(a,h)anthracene	25.658	278	3659	0.357	ng	97
41) Benzo(g,h,i)perylene	26.318	276	3771	0.331	ng	98

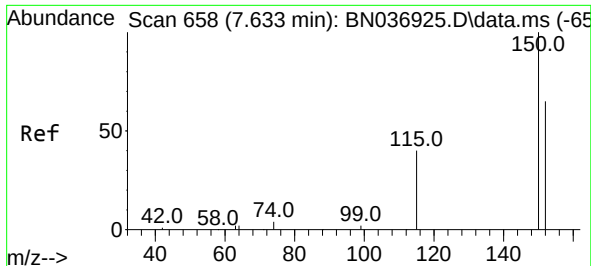
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN043025\
Data File : BN036953.D
Acq On : 30 Apr 2025 18:53
Operator : RC/JU
Sample : PB167760BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167760BSD

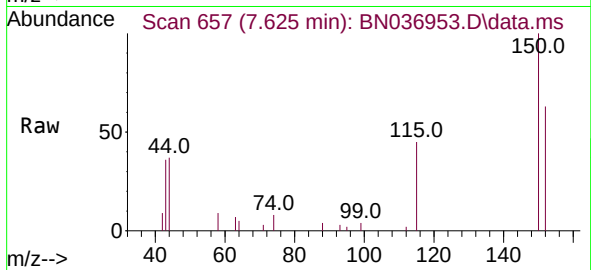
Quant Time: May 01 01:13:02 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



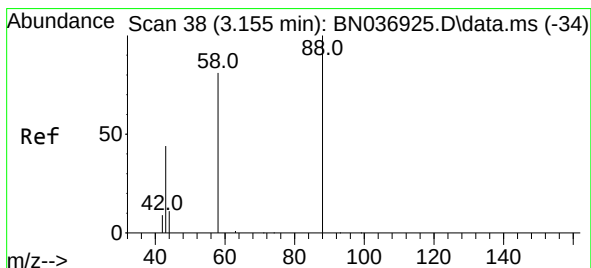
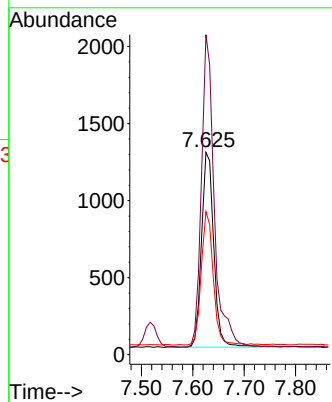
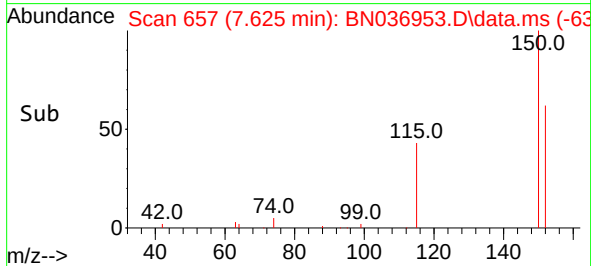


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.625 min Scan# 61
 Delta R.T. -0.008 min
 Lab File: BN036953.D
 Acq: 30 Apr 2025 18:53

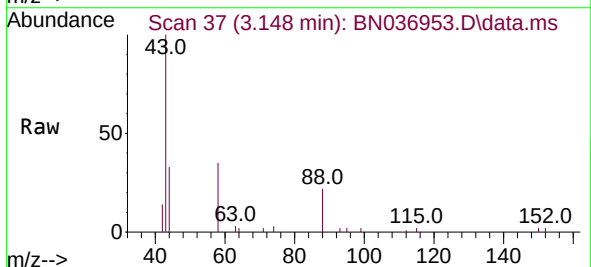
Instrument :
 BNA_N
 ClientSampleId :
 PB167760BSD



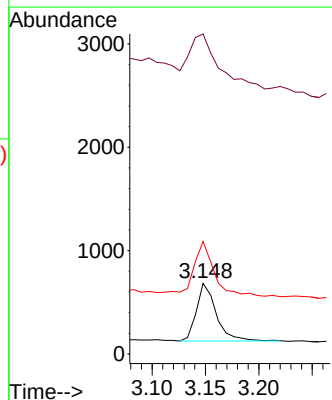
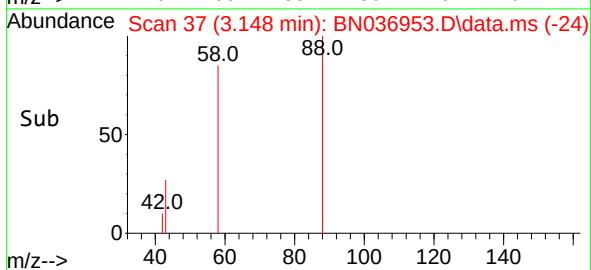
Tgt Ion:152 Resp: 2106
 Ion Ratio Lower Upper
 152 100
 150 158.2 121.1 181.7
 115 70.8 51.8 77.6

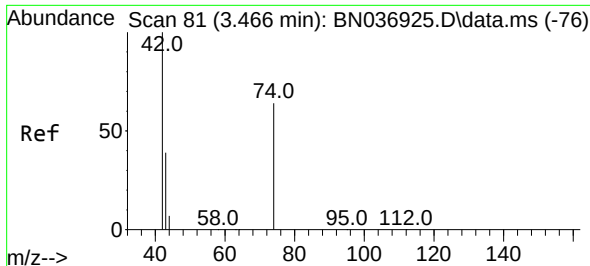


#2
 1,4-Dioxane
 Concen: 0.273 ng
 RT: 3.148 min Scan# 37
 Delta R.T. -0.007 min
 Lab File: BN036953.D
 Acq: 30 Apr 2025 18:53



Tgt Ion: 88 Resp: 716
 Ion Ratio Lower Upper
 88 100
 43 136.0 37.9 56.9#
 58 103.4 65.8 98.6#

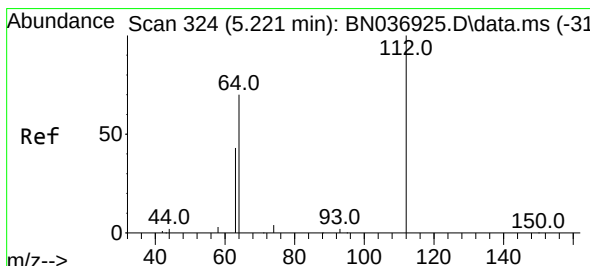
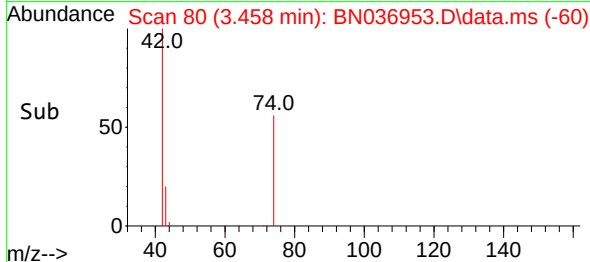
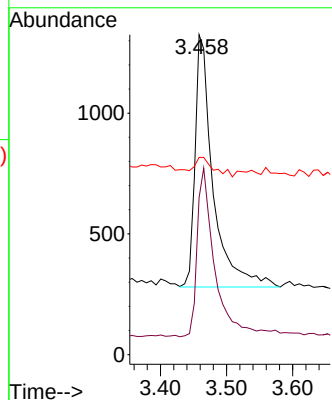
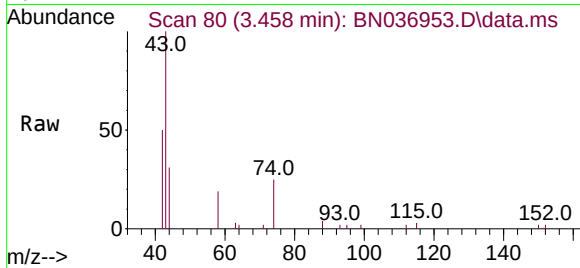




#3
n-Nitrosodimethylamine
Concen: 0.388 ng
RT: 3.458 min Scan# 80
Delta R.T. -0.007 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

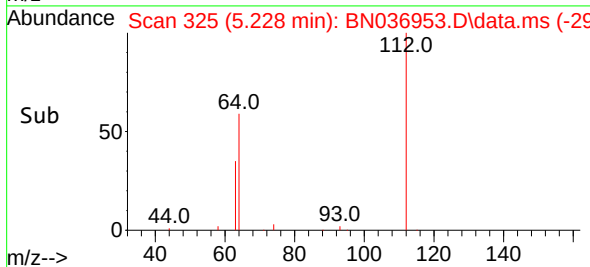
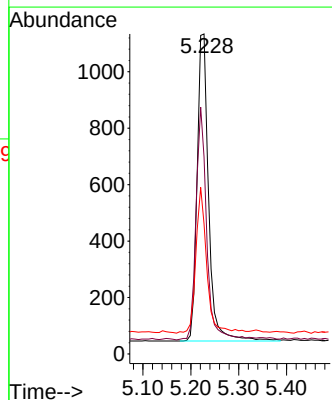
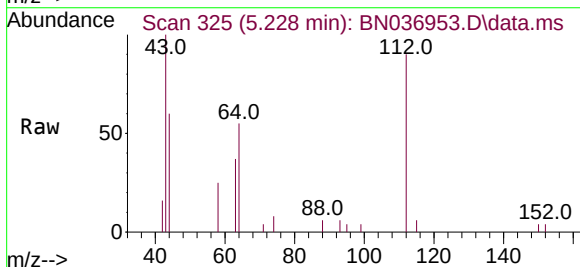
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

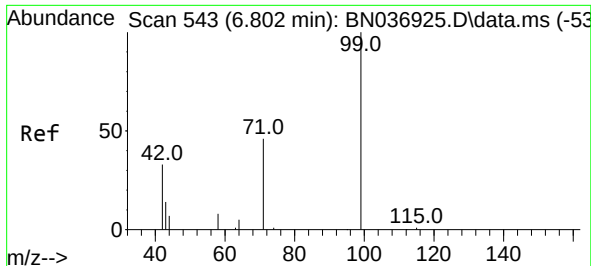
Tgt Ion: 42 Resp: 1976
Ion Ratio Lower Upper
42 100
74 66.6 59.9 89.9
44 7.9 7.5 11.3



#4
2-Fluorophenol
Concen: 0.337 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.007 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion: 112 Resp: 1814
Ion Ratio Lower Upper
112 100
64 70.8 55.7 83.5
63 43.9 33.9 50.9

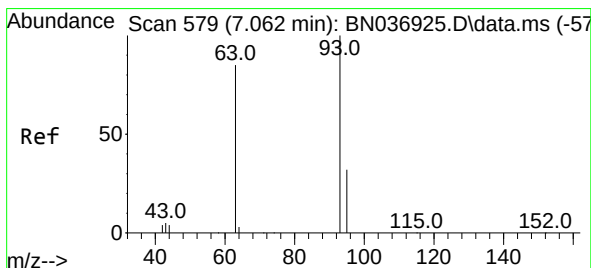
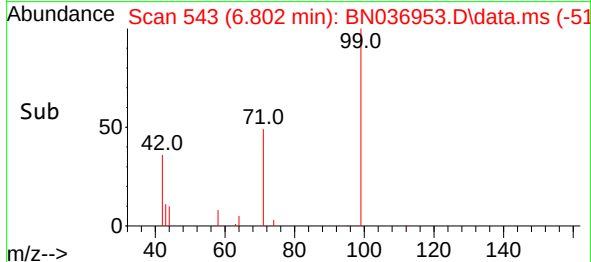
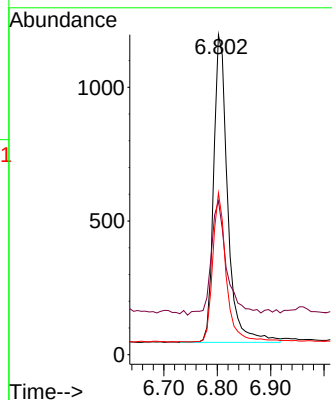
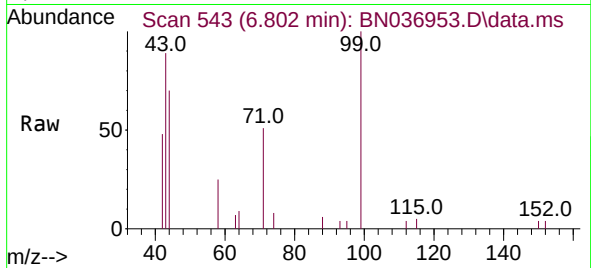




#5
Phenol-d6
Concen: 0.317 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

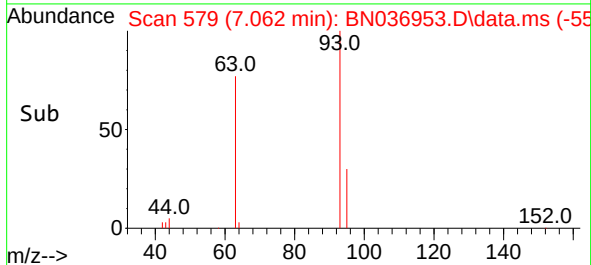
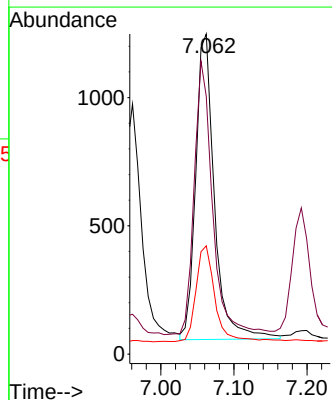
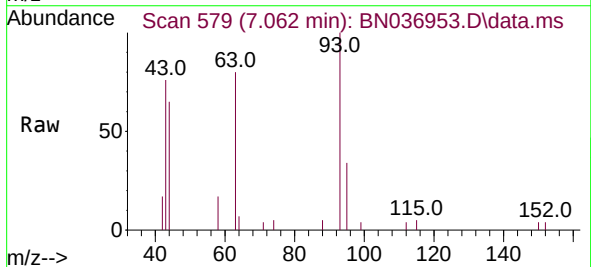
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

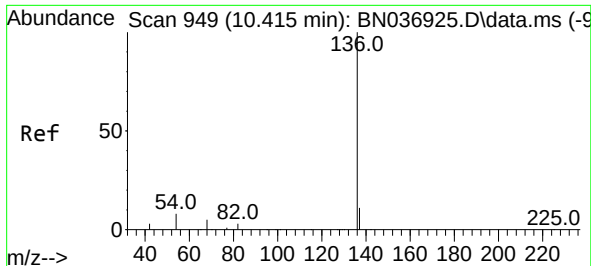
Tgt Ion:	99	Resp:	2101
Ion	Ratio	Lower	Upper
99	100		
42	41.3	29.6	44.4
71	47.9	36.0	54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.345 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:	93	Resp:	2121
Ion	Ratio	Lower	Upper
93	100		
63	87.1	69.0	103.6
95	32.2	25.4	38.0

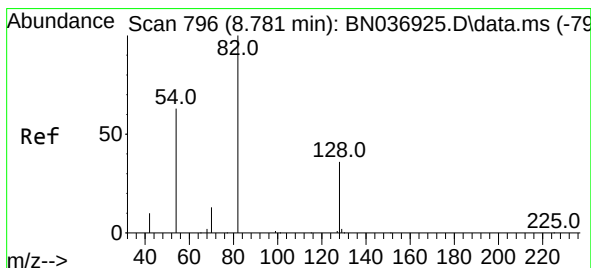
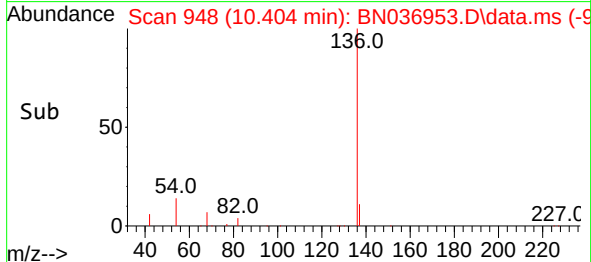
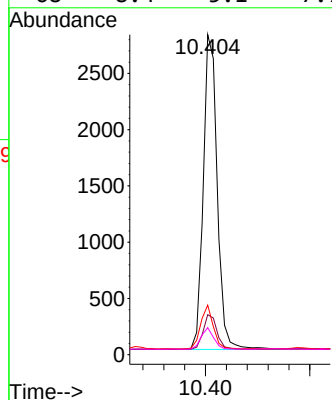
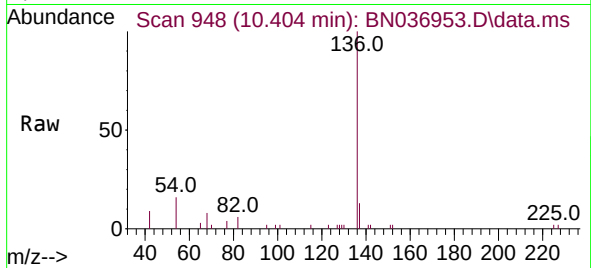




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

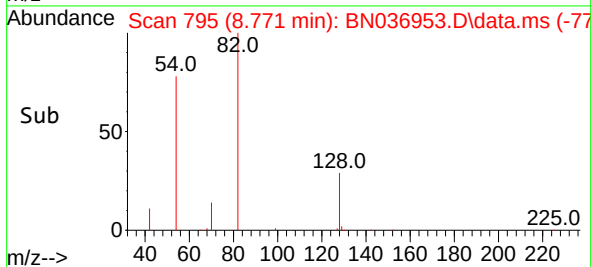
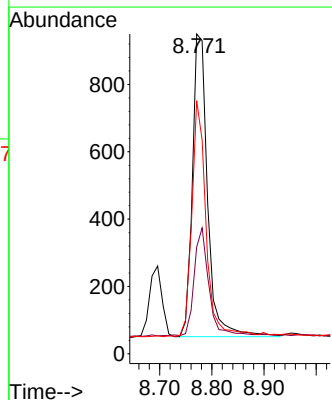
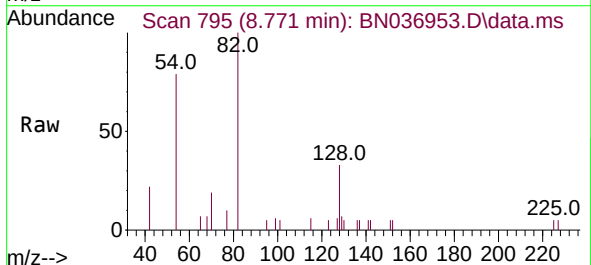
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

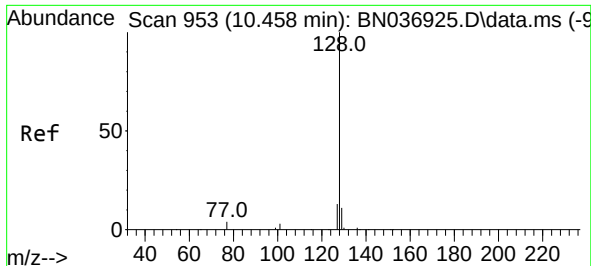
Tgt Ion:	136	Resp:	5174
Ion Ratio	Lower	Upper	
136	100		
137	12.5	9.7	14.5
54	15.5	8.0	12.0#
68	8.4	5.1	7.7#



#8
Nitrobenzene-d5
Concen: 0.338 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:	82	Resp:	1831
Ion Ratio	Lower	Upper	
82	100		
128	33.4	30.7	46.1
54	79.2	52.1	78.1#

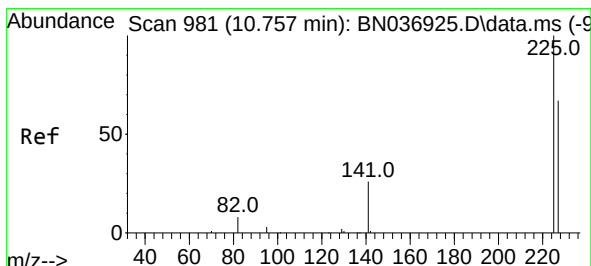
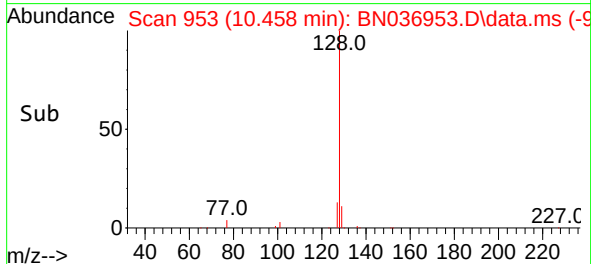
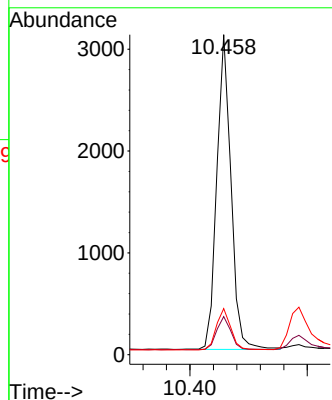
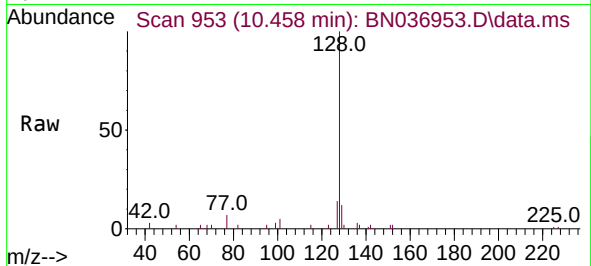




#9
Naphthalene
Concen: 0.344 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

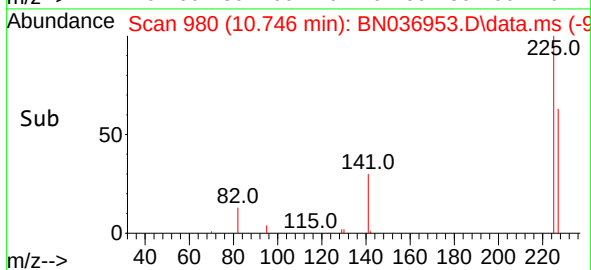
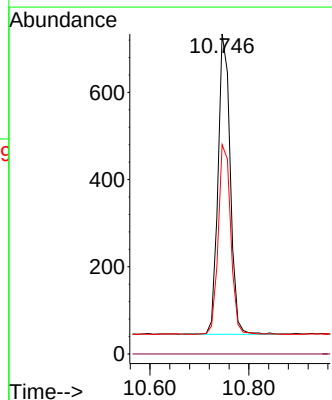
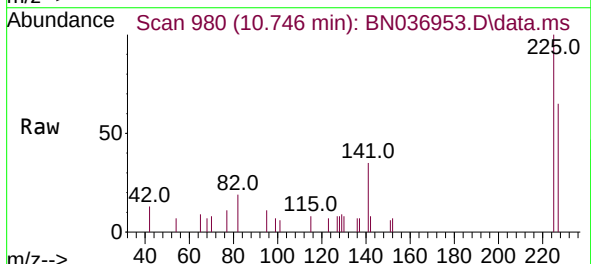
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

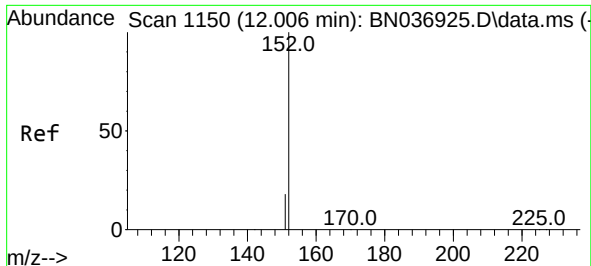
Tgt Ion:	128	Resp:	5175
Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.4	11.4	17.2



#10
Hexachlorobutadiene
Concen: 0.362 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.011 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:	225	Resp:	1181
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.8	52.2	78.4

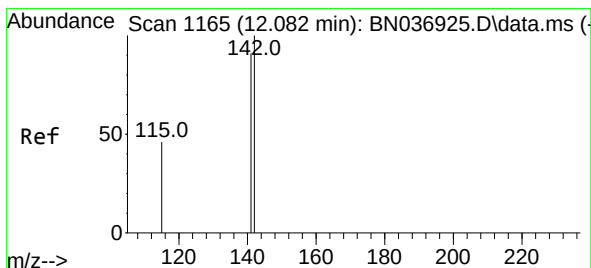
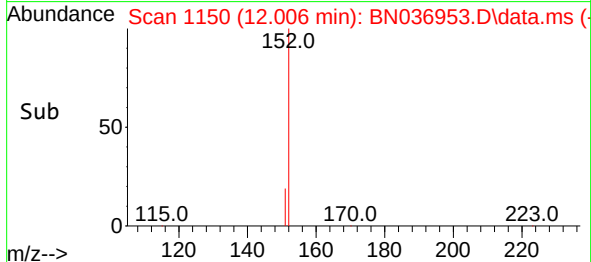
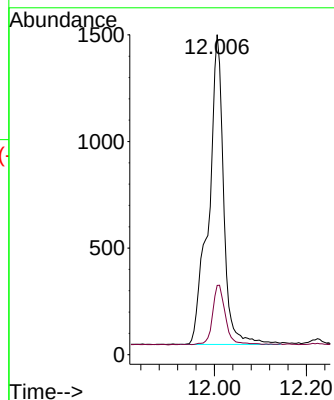
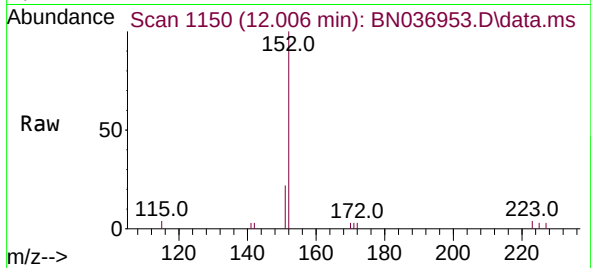




#11
2-Methylnaphthalene-d10
Concen: 0.453 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

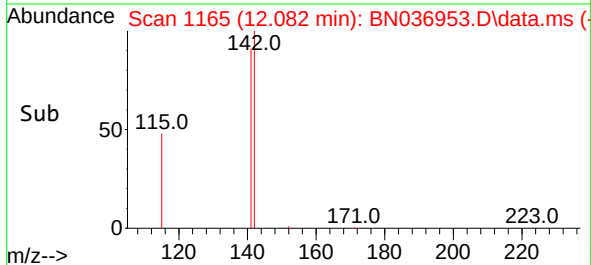
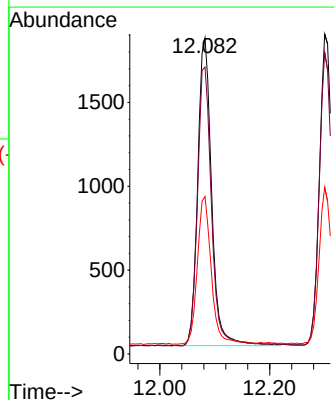
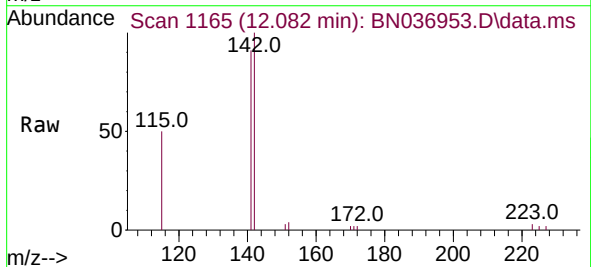
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

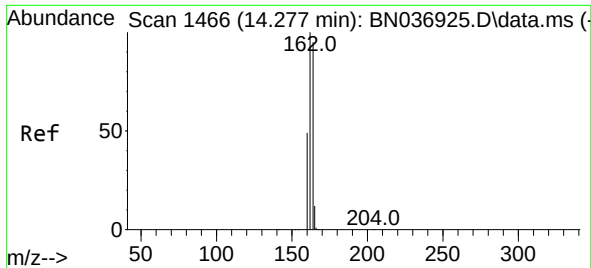
Tgt Ion:152 Resp: 3275
Ion Ratio Lower Upper
152 100
151 16.5 16.9 25.3#



#12
2-Methylnaphthalene
Concen: 0.332 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:142 Resp: 3231
Ion Ratio Lower Upper
142 100
141 90.8 72.8 109.2
115 49.8 38.2 57.4

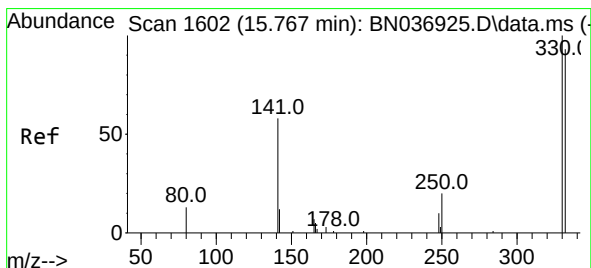
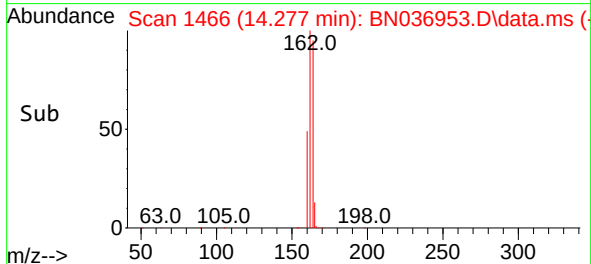
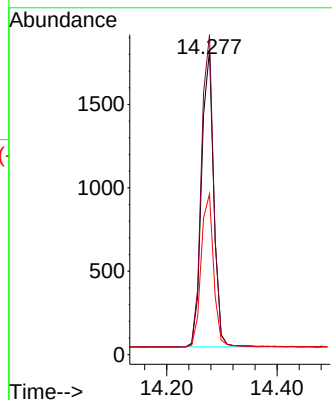
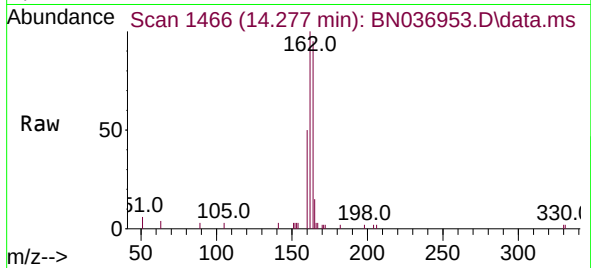




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

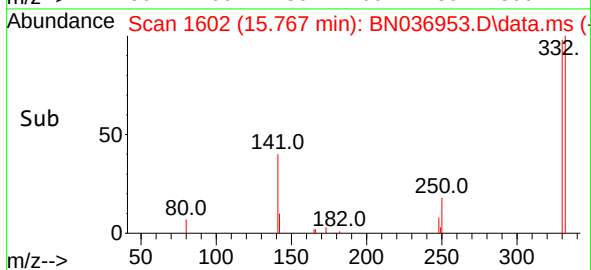
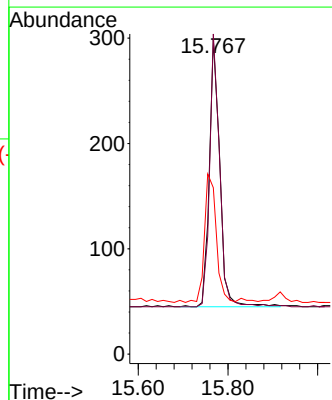
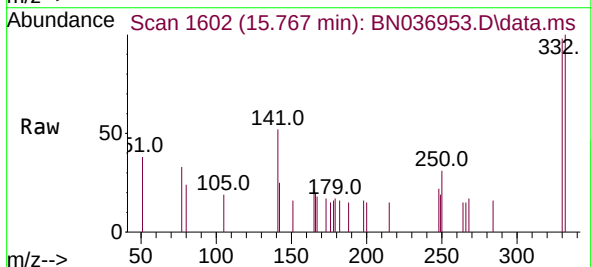
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

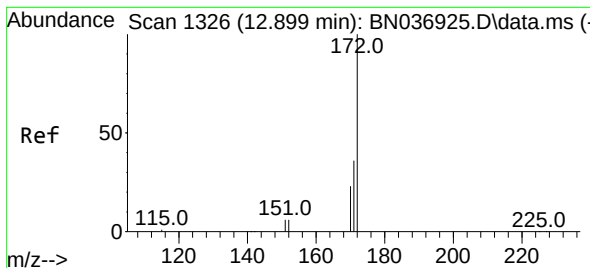
Tgt Ion:164 Resp: 2716
Ion Ratio Lower Upper
164 100
162 105.2 83.8 125.8
160 52.8 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.339 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:330 Resp: 410
Ion Ratio Lower Upper
330 100
332 97.1 76.3 114.5
141 53.9 45.4 68.2

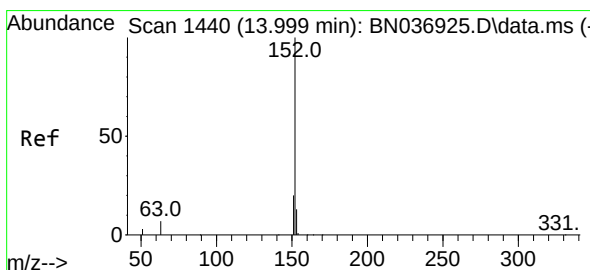
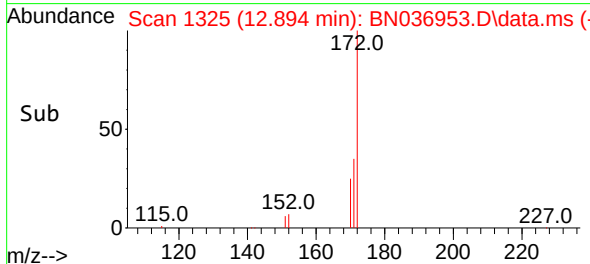
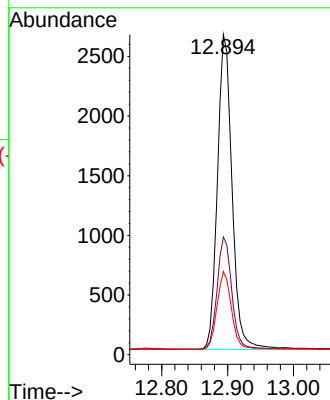
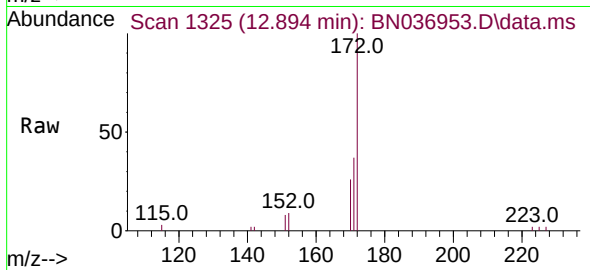




#15
2-Fluorobiphenyl
Concen: 0.309 ng
RT: 12.894 min Scan# 1439
Delta R.T. -0.005 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

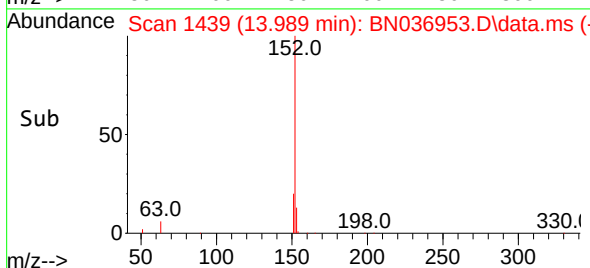
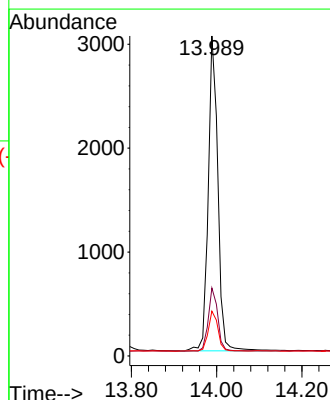
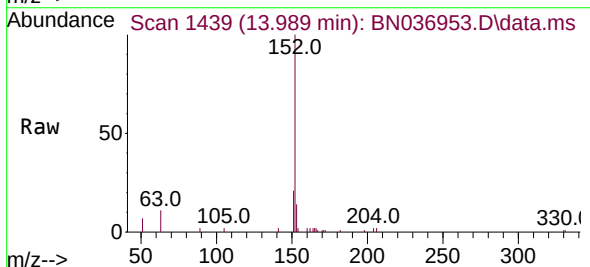
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

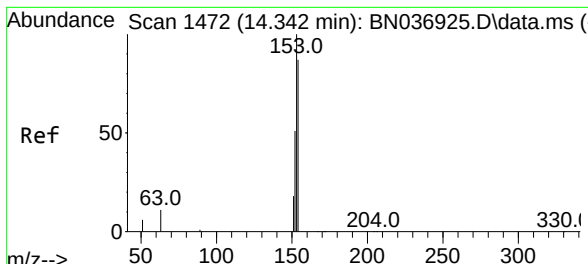
Tgt Ion:	172	Resp:	4059
Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.4	44.0
170	26.0	19.4	29.0



#16
Acenaphthylene
Concen: 0.358 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:	152	Resp:	4751
Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.0	24.0
153	12.9	10.2	15.2



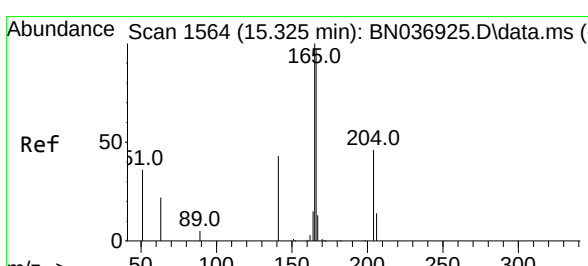
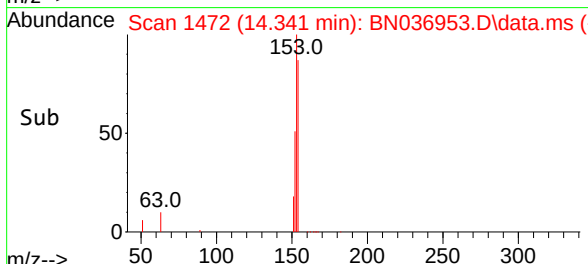
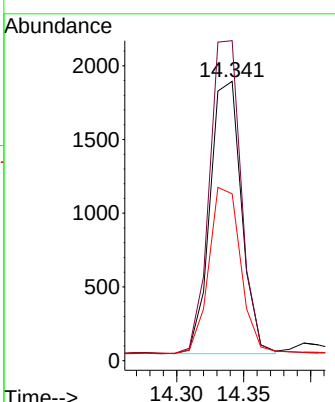
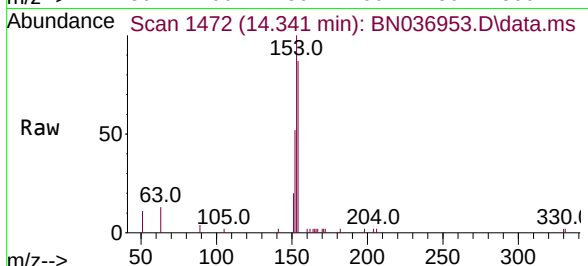


#17
 Acenaphthene
 Concen: 0.346 ng
 RT: 14.341 min Scan# 1472
 Delta R.T. -0.000 min
 Lab File: BN036953.D
 Acq: 30 Apr 2025 18:53

Instrument : BNA_N
 ClientSampleId : PB167760BSD

Tgt Ion:154 Resp: 3015

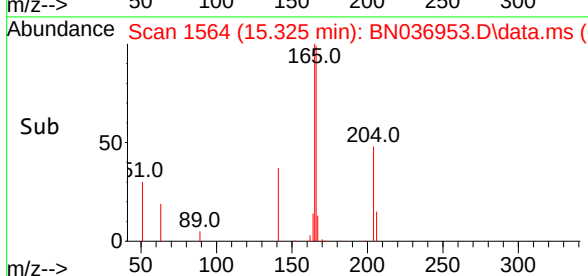
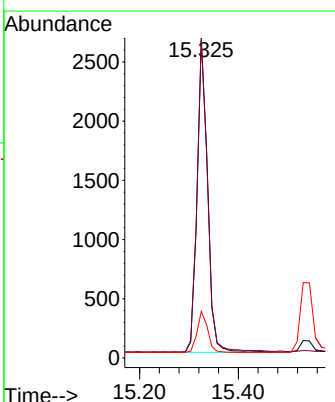
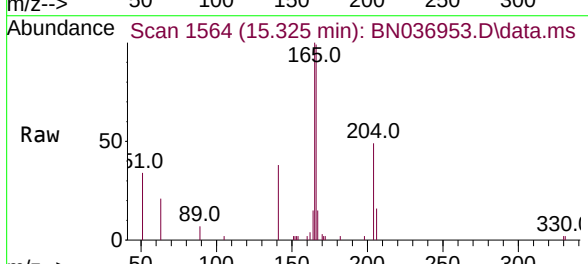
Ion	Ratio	Lower	Upper
154	100		
153	117.0	93.4	140.2
152	62.1	49.5	74.3

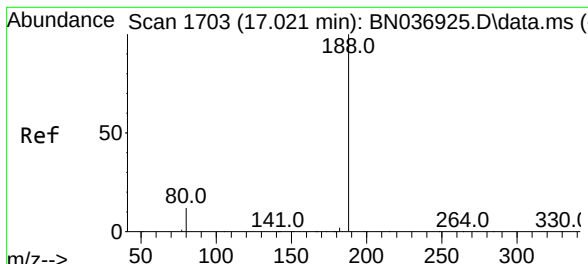


#18
 Fluorene
 Concen: 0.342 ng
 RT: 15.325 min Scan# 1564
 Delta R.T. -0.000 min
 Lab File: BN036953.D
 Acq: 30 Apr 2025 18:53

Tgt Ion:166 Resp: 3898

Ion	Ratio	Lower	Upper
166	100		
165	100.4	80.8	121.2
167	13.4	10.8	16.2

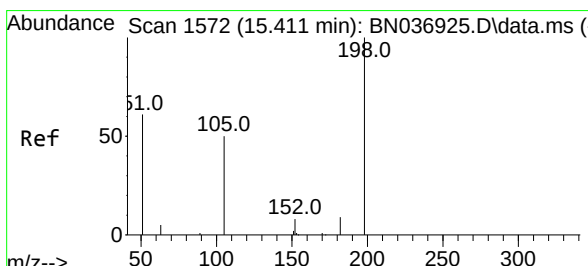
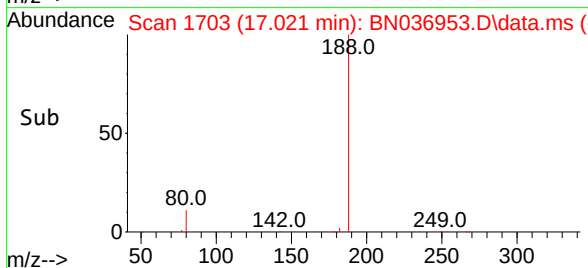
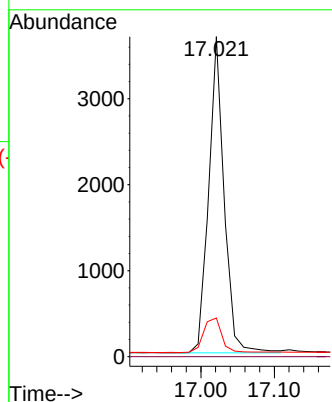
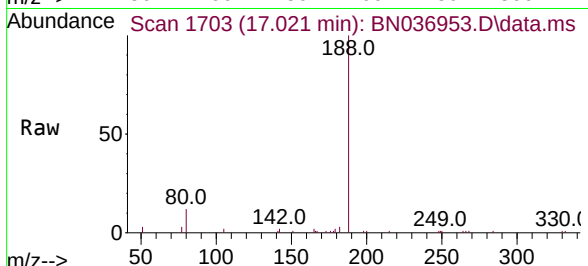




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

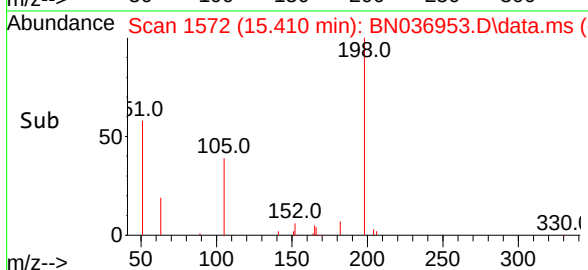
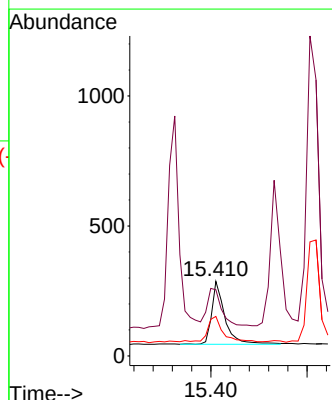
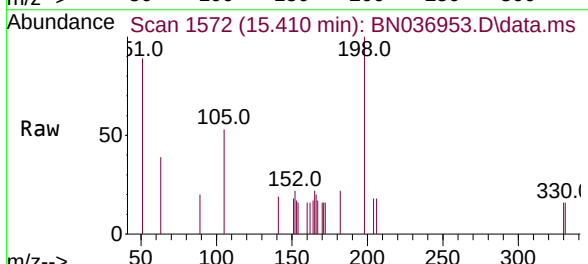
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

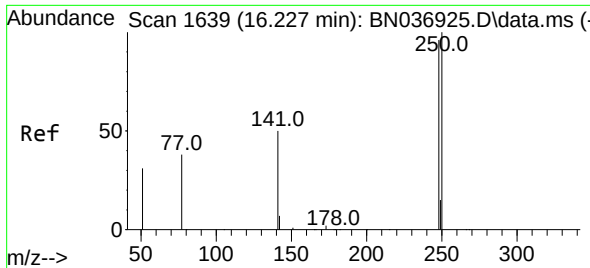
Tgt Ion:188 Resp: 5366
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.1 10.7 16.1



#20
4,6-Dinitro-2-methylphenol
Concen: 0.329 ng
RT: 15.410 min Scan# 1572
Delta R.T. -0.001 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:198 Resp: 468
Ion Ratio Lower Upper
198 100
51 88.9 97.9 146.9#
105 53.0 50.0 75.0

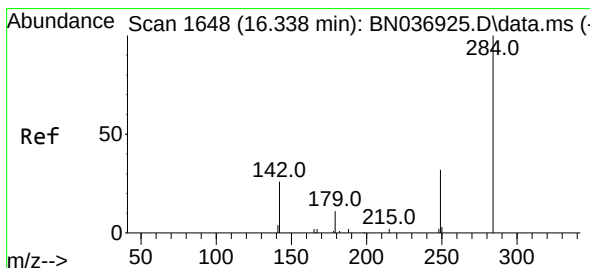
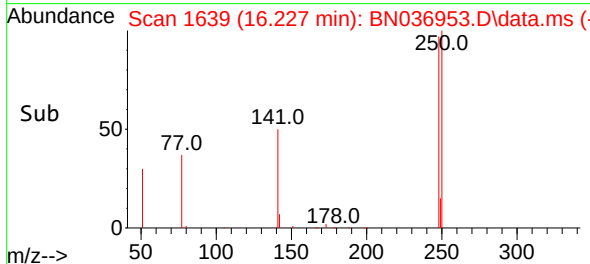
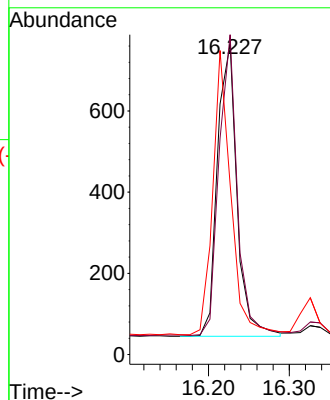
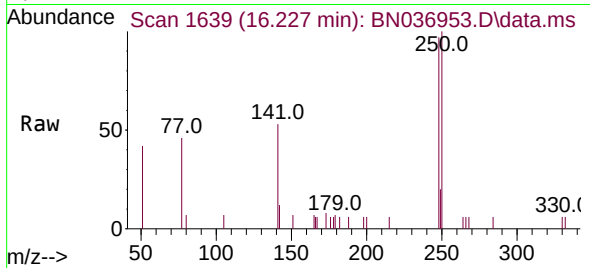




#21
4-Bromophenyl-phenylether
Concen: 0.338 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

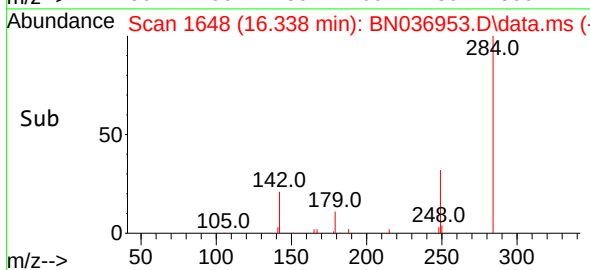
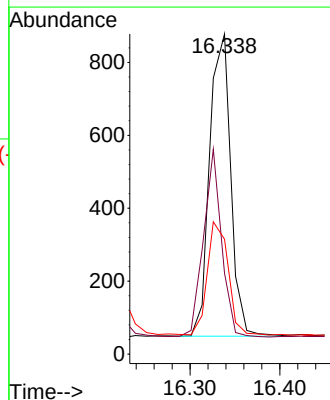
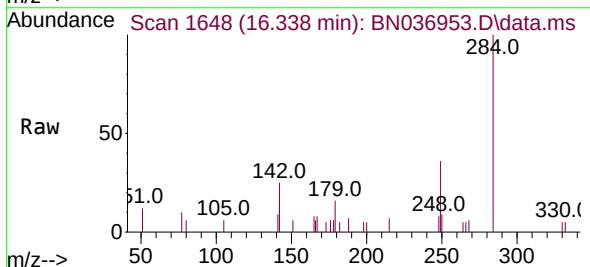
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

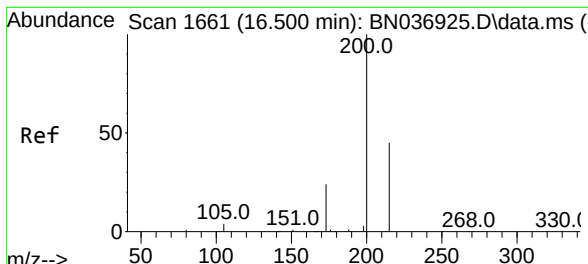
Tgt Ion:248 Resp: 1212
Ion Ratio Lower Upper
248 100
250 102.9 83.7 125.5
141 54.7 43.8 65.8



#22
Hexachlorobenzene
Concen: 0.345 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:284 Resp: 1353
Ion Ratio Lower Upper
284 100
142 53.1 40.0 60.0
249 37.5 28.2 42.2

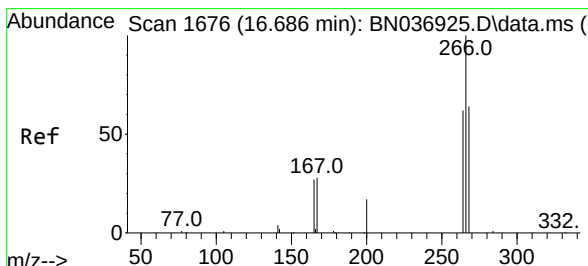
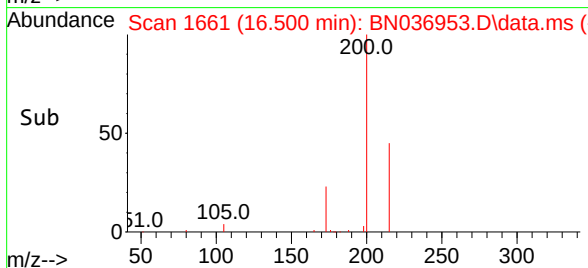
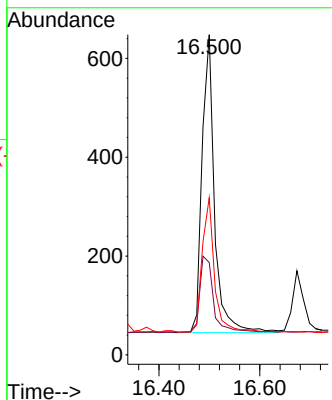
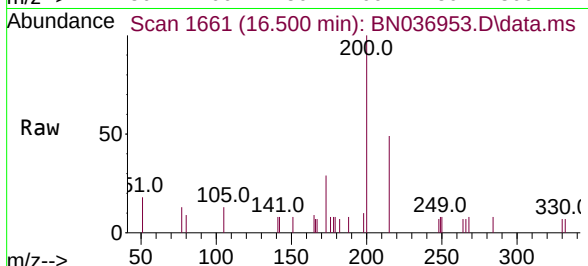




#23
 Atrazine
 Concen: 0.359 ng
 RT: 16.500 min Scan# 1661
 Delta R.T. -0.000 min
 Lab File: BN036953.D
 Acq: 30 Apr 2025 18:53

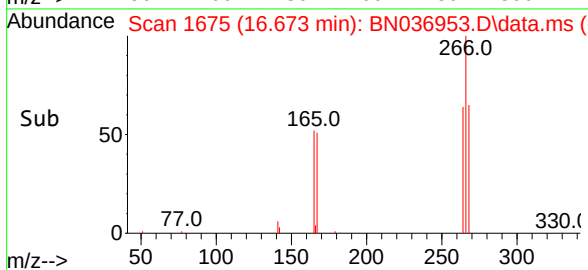
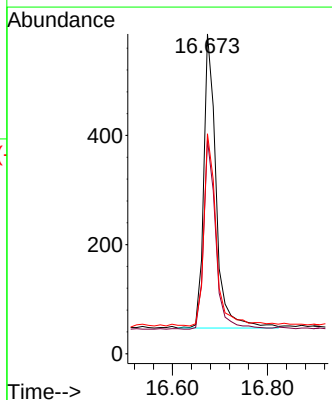
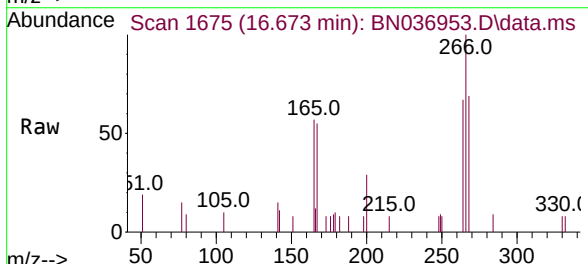
Instrument :
 BNA_N
 ClientSampleId :
 PB167760BSD

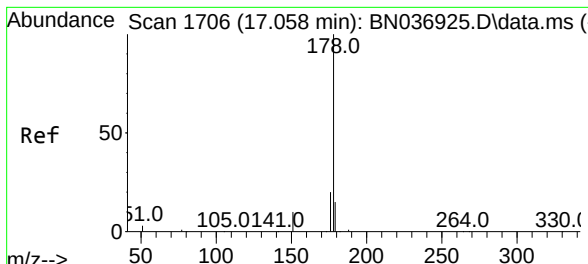
Tgt Ion:	200	Resp:	1038
Ion Ratio	Lower	Upper	
200	100		
173	28.9	22.4	33.6
215	49.1	38.6	57.8



#24
 Pentachlorophenol
 Concen: 0.468 ng
 RT: 16.673 min Scan# 1675
 Delta R.T. -0.013 min
 Lab File: BN036953.D
 Acq: 30 Apr 2025 18:53

Tgt Ion:	266	Resp:	985
Ion Ratio	Lower	Upper	
266	100		
264	61.9	49.9	74.9
268	65.0	52.2	78.4

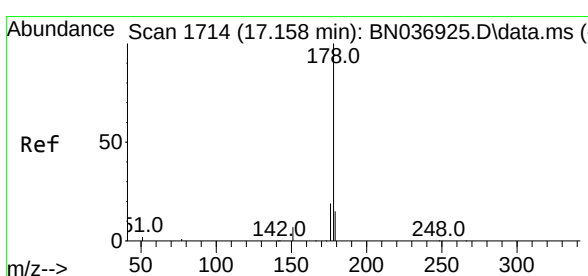
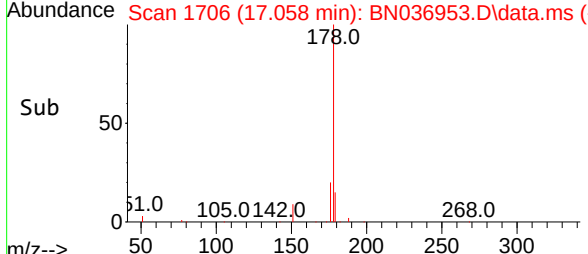
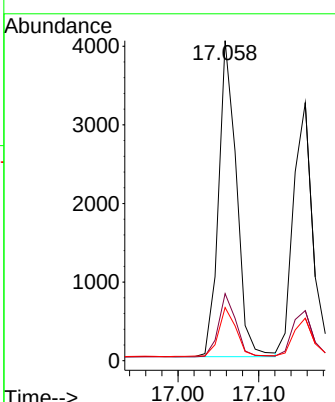
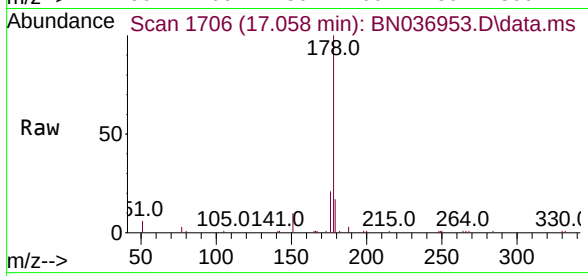




#25
 Phenanthrene
 Concen: 0.348 ng
 RT: 17.058 min Scan# 1706
 Delta R.T. -0.000 min
 Lab File: BN036953.D
 Acq: 30 Apr 2025 18:53

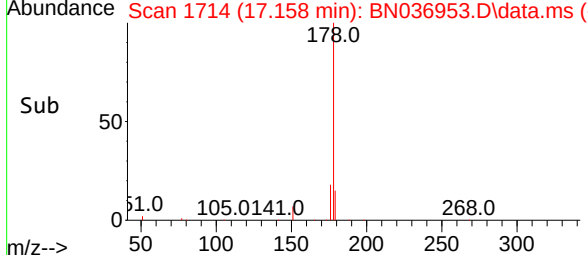
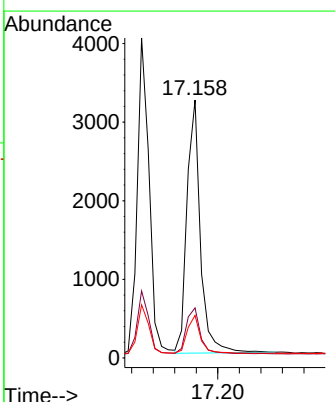
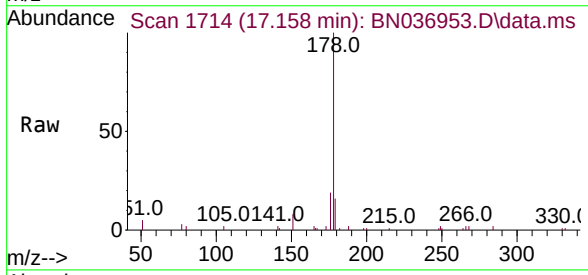
Instrument : BNA_N
 ClientSampleId : PB167760BSD

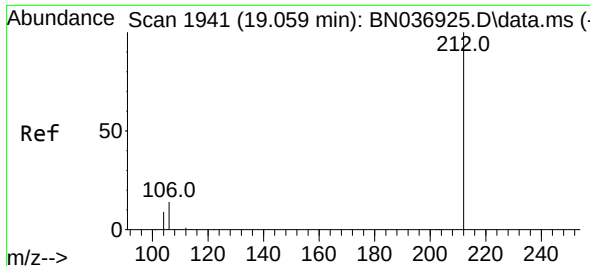
Tgt Ion:	178	Resp:	6172
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.7	23.5
179	15.5	12.4	18.6



#26
 Anthracene
 Concen: 0.349 ng
 RT: 17.158 min Scan# 1714
 Delta R.T. -0.000 min
 Lab File: BN036953.D
 Acq: 30 Apr 2025 18:53

Tgt Ion:	178	Resp:	5592
Ion Ratio	Lower	Upper	
178	100		
176	19.0	15.3	22.9
179	14.7	12.1	18.1

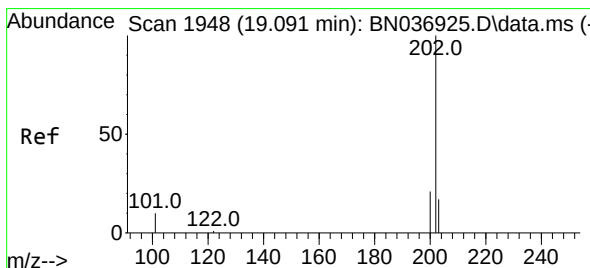
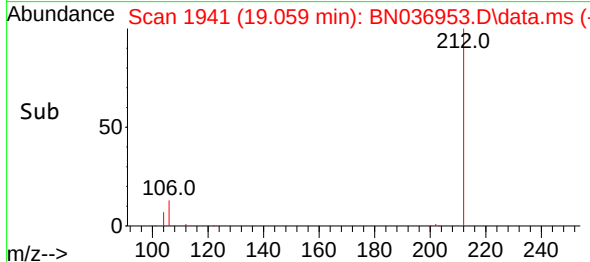
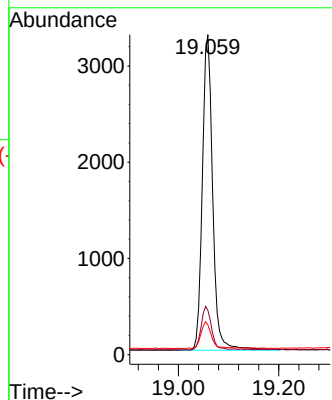
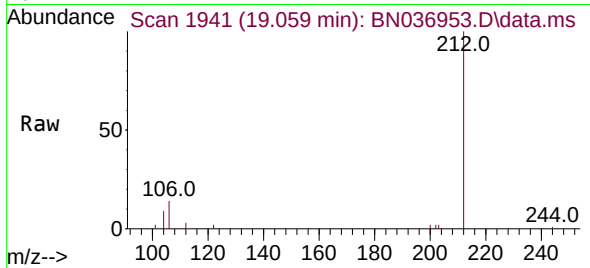




#27
Fluoranthene-d10
Concen: 0.338 ng
RT: 19.059 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

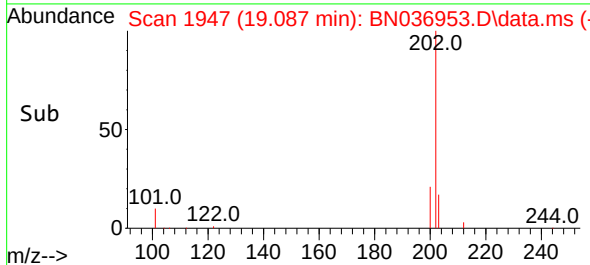
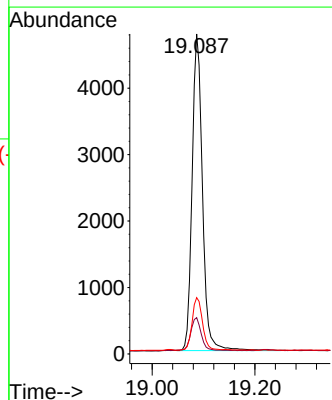
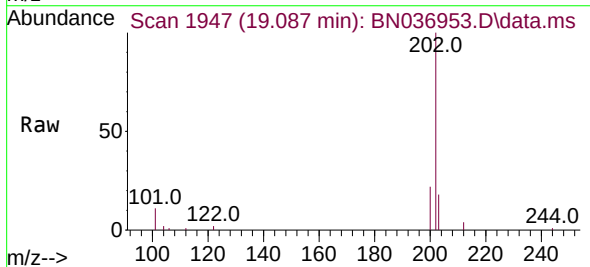
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

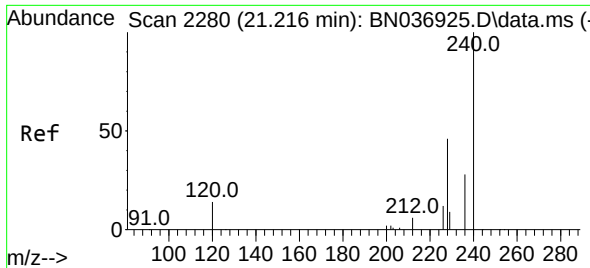
Tgt Ion:212 Resp: 4698
Ion Ratio Lower Upper
212 100
106 13.6 11.6 17.4
104 9.2 7.0 10.4



#28
Fluoranthene
Concen: 0.335 ng
RT: 19.087 min Scan# 1947
Delta R.T. -0.005 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

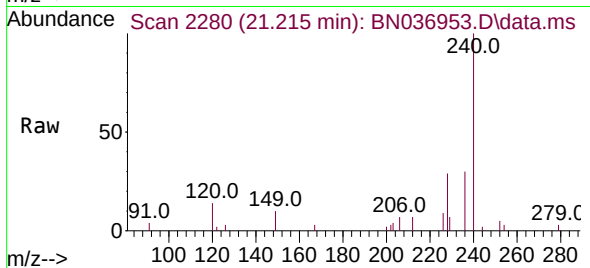
Tgt Ion:202 Resp: 6658
Ion Ratio Lower Upper
202 100
101 10.5 8.5 12.7
203 16.6 13.7 20.5



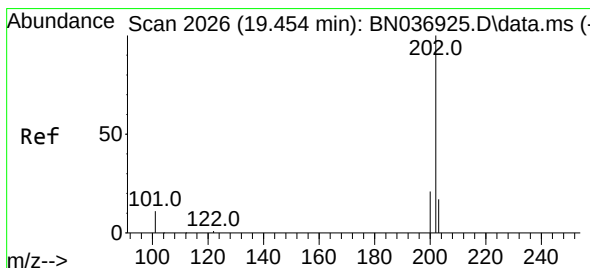
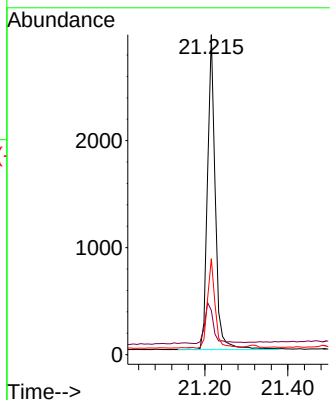
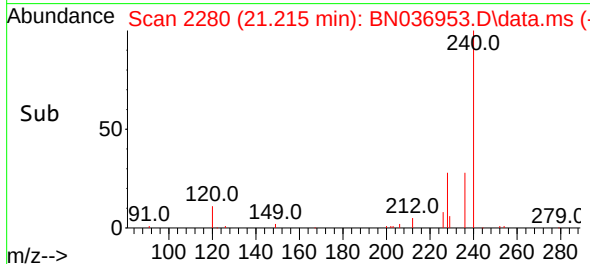


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

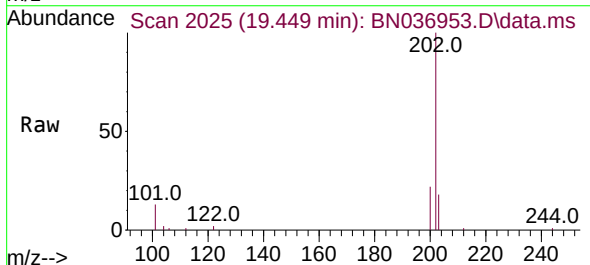
Instrument :
BNA_N
ClientSampleId :
PB167760BSD



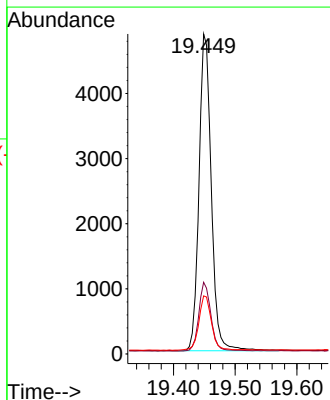
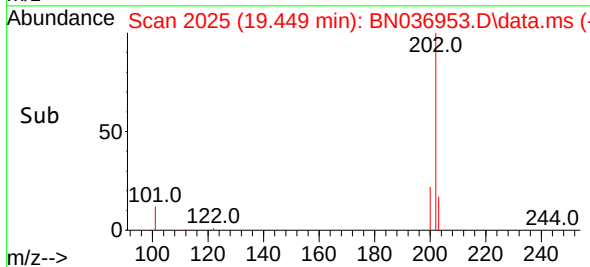
Tgt Ion:240 Resp: 3877
Ion Ratio Lower Upper
240 100
120 13.8 14.1 21.1#
236 30.0 23.8 35.8

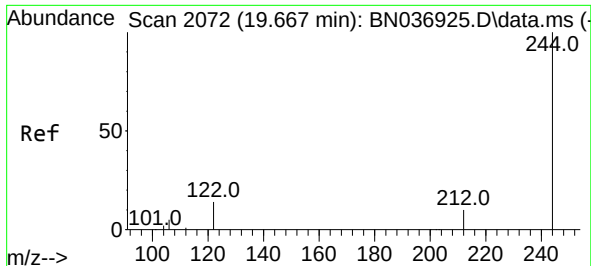


#30
Pyrene
Concen: 0.361 ng
RT: 19.449 min Scan# 2025
Delta R.T. -0.005 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53



Tgt Ion:202 Resp: 6741
Ion Ratio Lower Upper
202 100
200 21.4 17.0 25.6
203 17.5 14.0 21.0

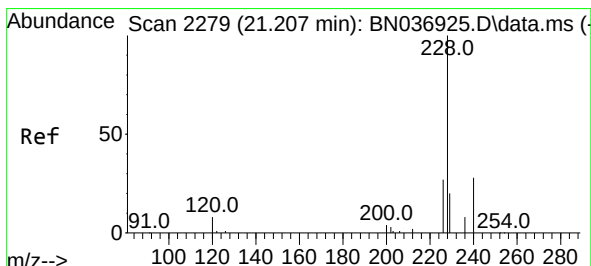
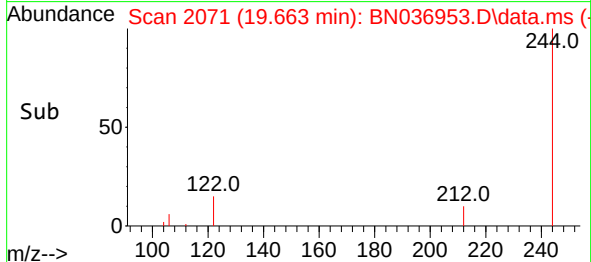
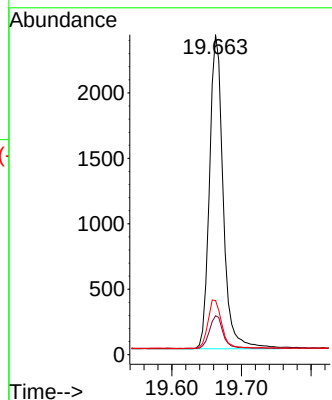
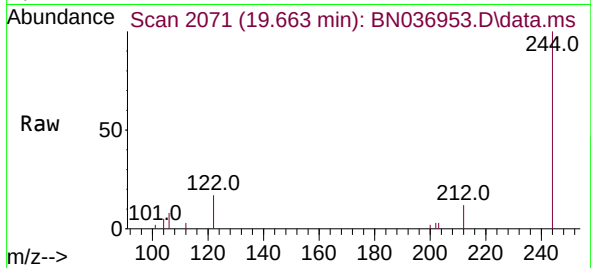




#31
 Terphenyl-d14
 Concen: 0.358 ng
 RT: 19.663 min Scan# 2072
 Delta R.T. -0.005 min
 Lab File: BN036953.D
 Acq: 30 Apr 2025 18:53

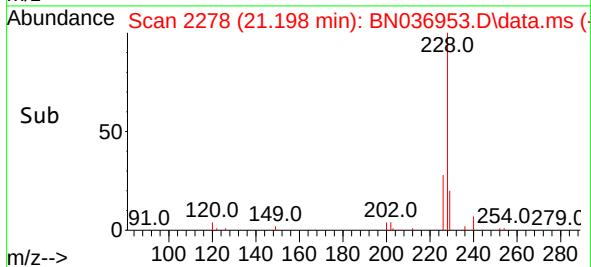
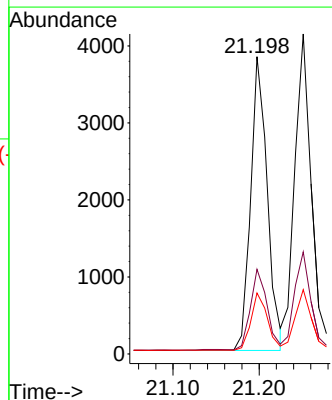
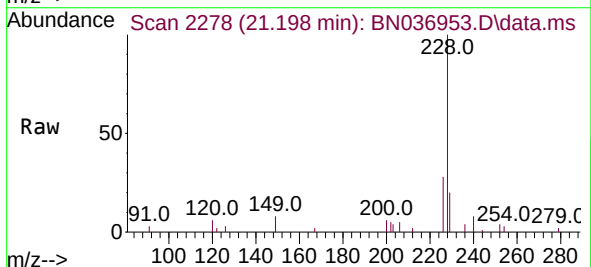
Instrument :
 BNA_N
 ClientSampleId :
 PB167760BSD

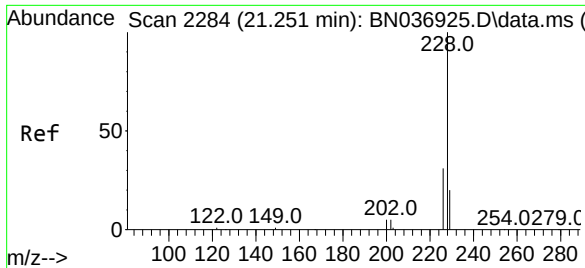
Tgt Ion:244 Resp: 3275
 Ion Ratio Lower Upper
 244 100
 212 12.2 9.6 14.4
 122 16.9 12.7 19.1



#32
 Benzo(a)anthracene
 Concen: 0.357 ng
 RT: 21.198 min Scan# 2278
 Delta R.T. -0.009 min
 Lab File: BN036953.D
 Acq: 30 Apr 2025 18:53

Tgt Ion:228 Resp: 5104
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.2 33.4
 229 20.5 16.4 24.6

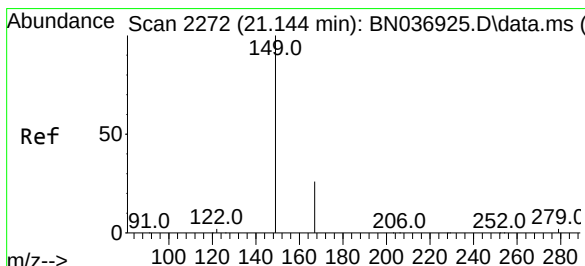
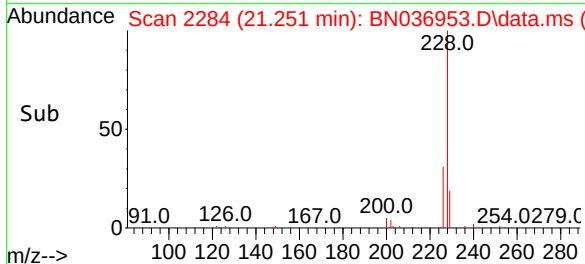
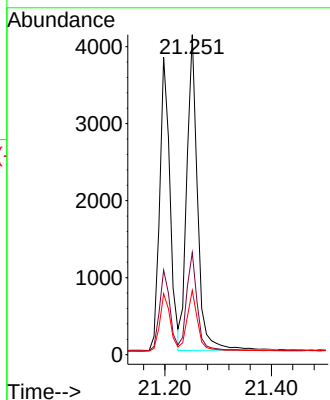
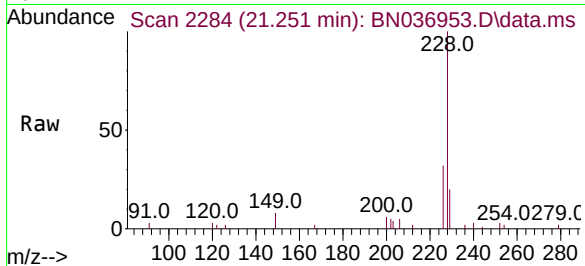




#33
Chrysene
Concen: 0.371 ng
RT: 21.251 min Scan# 211
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

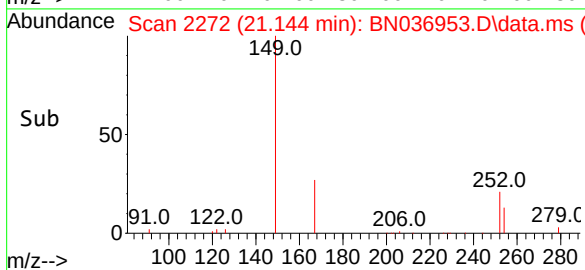
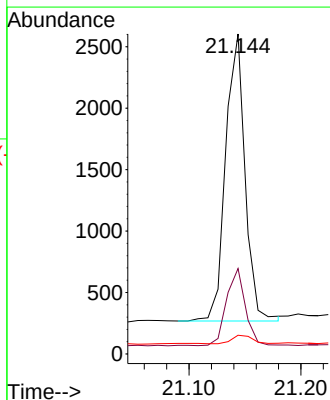
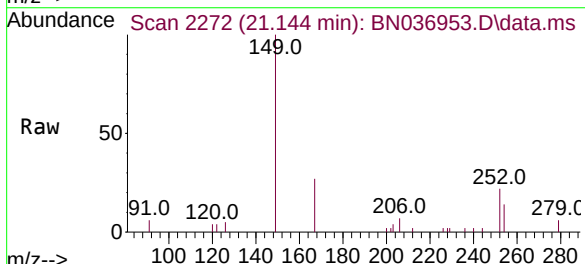
Instrument :
BNA_N
ClientSampleId :
PB167760BSD

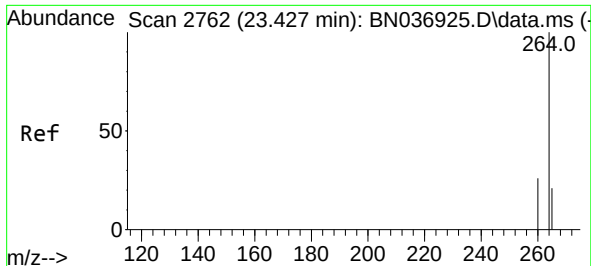
Tgt Ion:228	Resp:	5714
Ion Ratio	Lower	Upper
228	100	
226	31.9	25.5 38.3
229	20.1	16.5 24.7



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.348 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

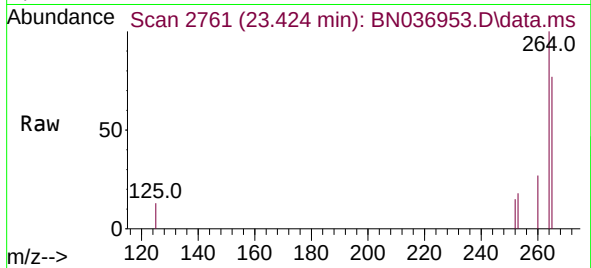
Tgt Ion:149	Resp:	2825
Ion Ratio	Lower	Upper
149	100	
167	25.9	21.0 31.6
279	3.1	2.7 4.1





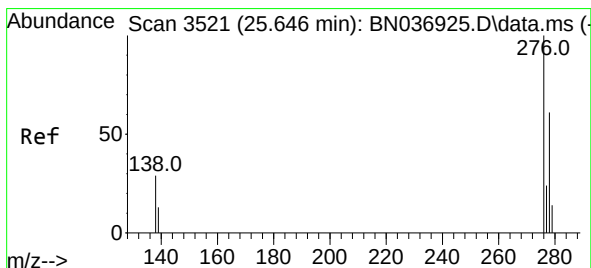
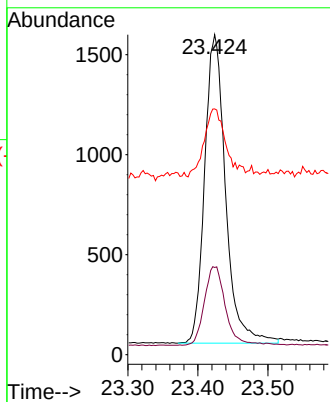
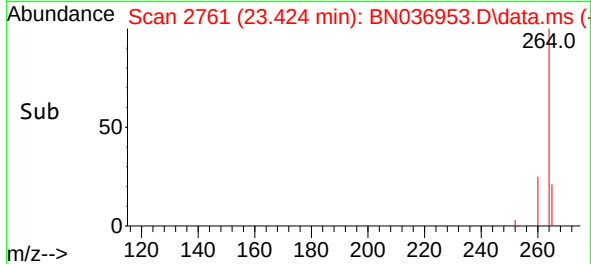
#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.424 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BN036953.D
 Acq: 30 Apr 2025 18:53

Instrument :
 BNA_N
 ClientSampleId :
 PB167760BSD

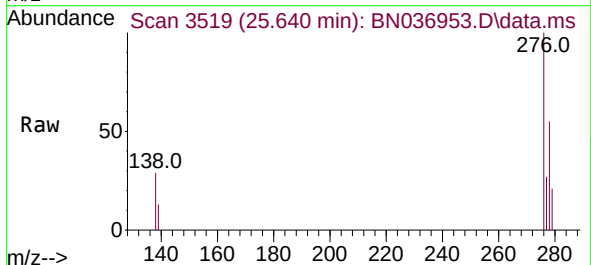


Tgt Ion: 264 Resp: 3193

Ion	Ratio	Lower	Upper
264	100		
260	27.2	22.2	33.2
265	76.8	65.8	98.6

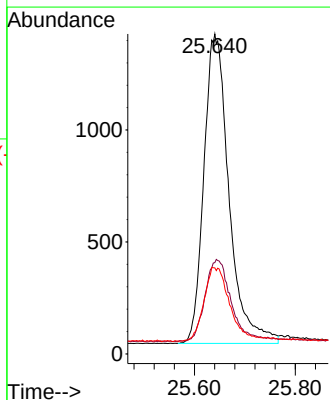
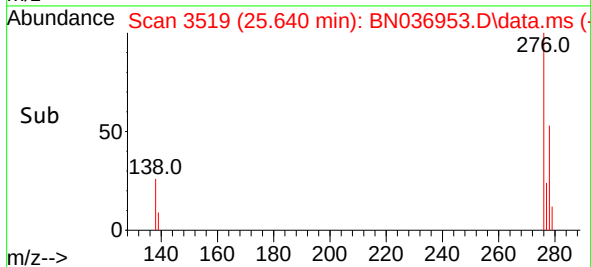


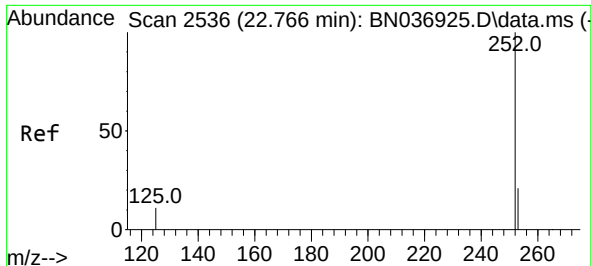
#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.366 ng
 RT: 25.640 min Scan# 3519
 Delta R.T. -0.006 min
 Lab File: BN036953.D
 Acq: 30 Apr 2025 18:53



Tgt Ion: 276 Resp: 4773

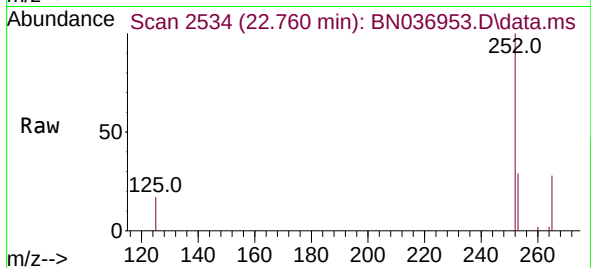
Ion	Ratio	Lower	Upper
276	100		
138	27.0	23.0	34.6
277	24.4	20.0	30.0



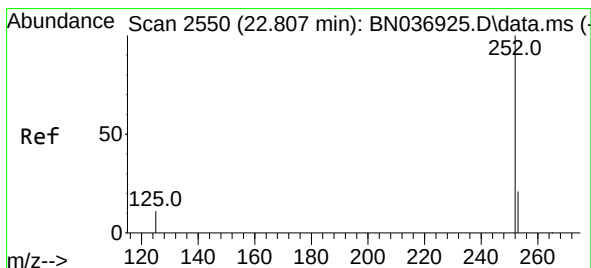
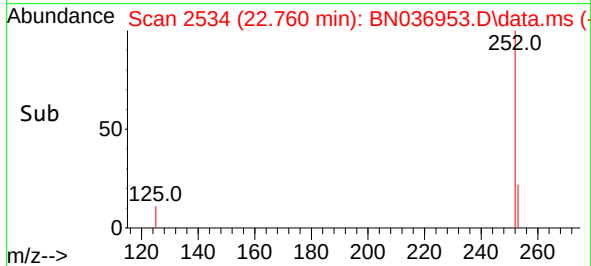
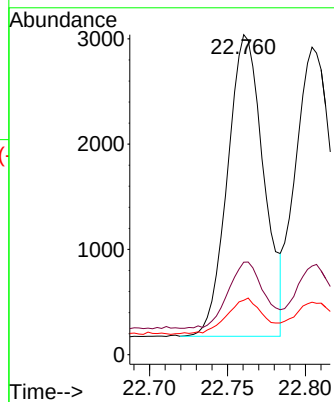


#37
Benzo(b)fluoranthene
Concen: 0.344 ng
RT: 22.760 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Instrument :
BNA_N
ClientSampleId :
PB167760BSD

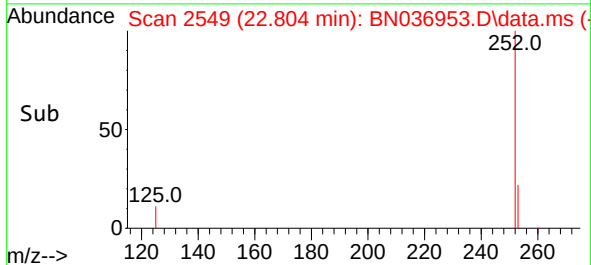
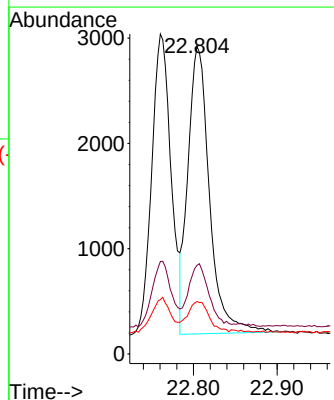
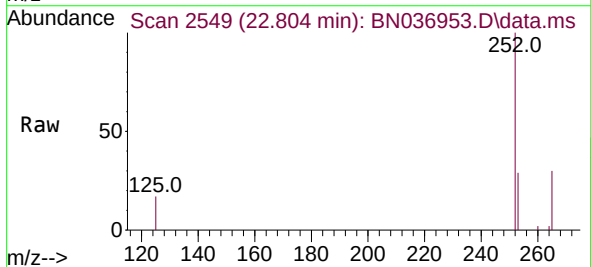


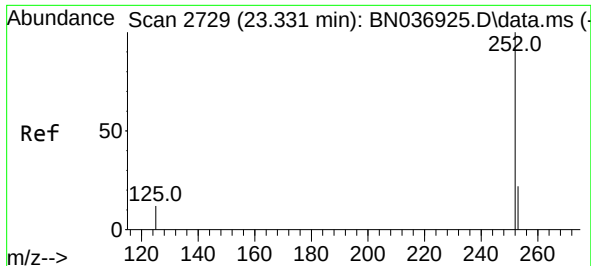
Tgt Ion:252 Resp: 4625
Ion Ratio Lower Upper
252 100
253 28.9 22.1 33.1
125 17.0 14.2 21.2



#38
Benzo(k)fluoranthene
Concen: 0.362 ng
RT: 22.804 min Scan# 2549
Delta R.T. -0.003 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

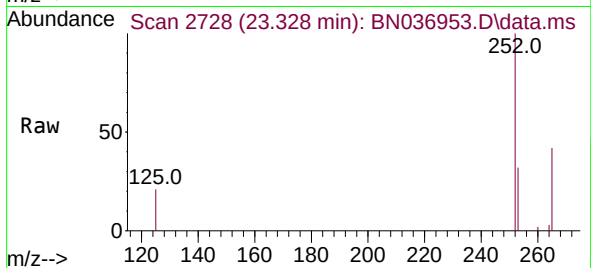
Tgt Ion:252 Resp: 4890
Ion Ratio Lower Upper
252 100
253 28.9 22.8 34.2
125 17.1 14.2 21.2





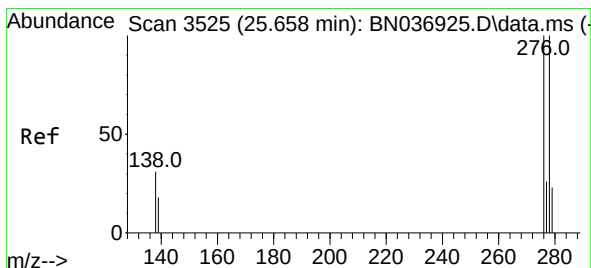
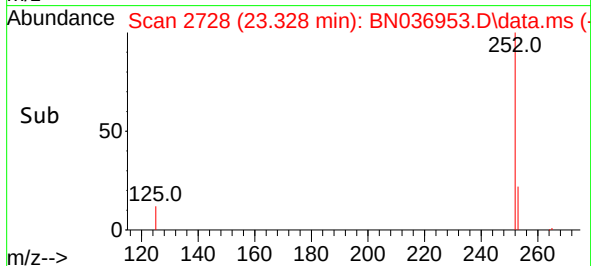
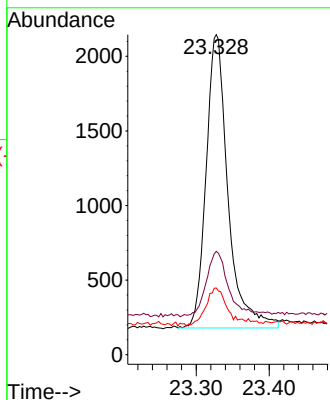
#39
Benzo(a)pyrene
Concen: 0.371 ng
RT: 23.328 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Instrument :
BNA_N
ClientSampleId :
PB167760BSD



Tgt Ion:252 Resp: 4098

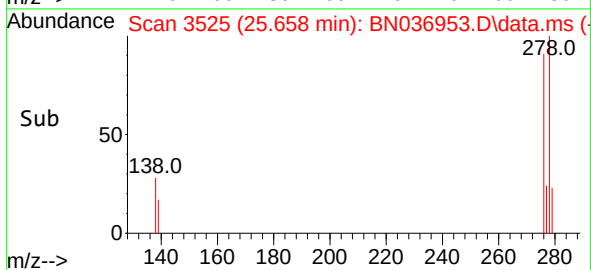
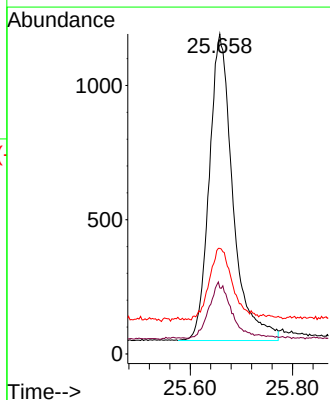
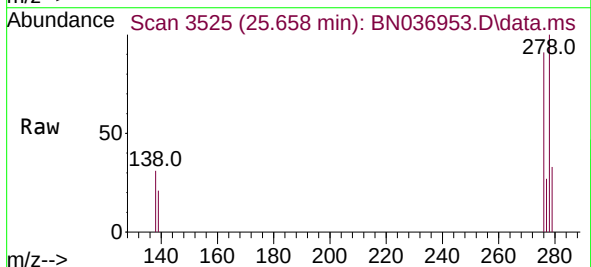
Ion	Ratio	Lower	Upper
252	100		
253	32.3	25.9	38.9
125	20.8	17.4	26.0

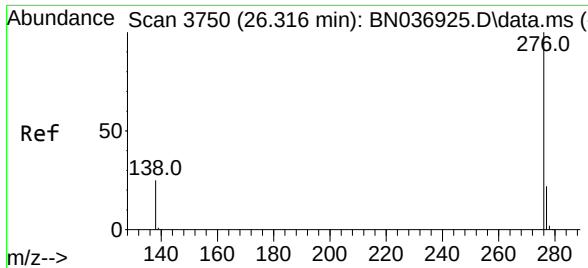


#40
Dibenzo(a,h)anthracene
Concen: 0.357 ng
RT: 25.658 min Scan# 3525
Delta R.T. -0.000 min
Lab File: BN036953.D
Acq: 30 Apr 2025 18:53

Tgt Ion:278 Resp: 3659

Ion	Ratio	Lower	Upper
278	100		
139	20.6	17.4	26.2
279	33.0	24.9	37.3





#41

Benzo(g,h,i)perylene

Concen: 0.331 ng

RT: 26.318 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036953.D

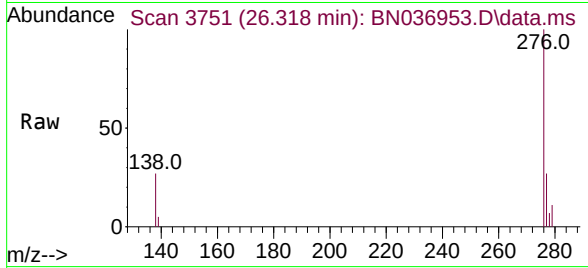
Acq: 30 Apr 2025 18:53

Instrument :

BNA_N

ClientSampleId :

PB167760BSD



Tgt Ion:276 Resp: 3771

Ion Ratio Lower Upper

276 100

277 26.9 20.2 30.2

138 27.1 21.9 32.9

