

**DATA PACKAGE
SEMI-VOLATILE ORGANICS**

PROJECT NAME : NWIRP BETHPAGE - RW7B CTO WE13 112G08005

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q1620

ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1620

Project ID : NWIRP Bethpage - RW7B CTO WE13 112G08005

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1620-01
Q1620-02
Q1620-03
Q1620-04

Client Sample Number

RW7-SP100-20250320
RW7-SP201-20250320
RW7-SP302-20250320
RW7-SP303-20250320

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 : _____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:12 am, Apr 02, 2025

Date: 4/2/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage - RW7B CTO WE13 112G08005

Project Manager: Ernie Wu

Chemtech Project # Q1620

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

4 Water samples were received on 03/21/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Metals Group4 and 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 except for PB167269BS [2-Fluorobiphenyl - 115%,], PB167269BSD [2-Fluorobiphenyl - 116%,] and RW7-SP303-20250320 [Terphenyl-d14 - 160%], The above failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

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 met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration File ID BN036757.D met the requirements except for Terphenyl-d14, The above failure compound not associated with the client parameters list, therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:

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

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

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 <15% 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 > 15% 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_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:13 am, Apr 02, 2025

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: Q1620

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration File ID BN036757.D met the requirements except for Terphenyl-d14, The above failure compound not associated with the client parameters list, therefore no corrective action was taken.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for PB167269BS [2- Fluorobiphenyl - 115%,], PB167269BSD [2-Fluorobiphenyl - 116%,] and RW7- SP303-20250320 [Terphenyl-d14 - 160%], The above failure surrogates not associated with the client parameters list, therefore no corrective action was taken.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			✓

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

		NA	NO	YES
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

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

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

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% 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 > 15% for the Initial Calibration curve for SW-846 analysis.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:13 am, Apr 02, 2025

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1620

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MOHAMMAD AHMED

Date: 04/02/2025

LAB CHRONICLE

OrderID:	Q1620	OrderDate:	3/21/2025 10:33:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage - RW7B CTO WE13 112G08005
Contact:	Ernie Wu	Location:	I41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1620-01	RW7-SP100-20250320	Water			03/20/25			03/21/25
			SVOC-SIMGroup1	8270-Modified		03/24/25	03/29/25	
Q1620-02	RW7-SP201-20250320	Water			03/20/25			03/21/25
			SVOC-SIMGroup1	8270-Modified		03/24/25	03/29/25	
Q1620-03	RW7-SP302-20250320	Water			03/20/25			03/21/25
			SVOC-SIMGroup1	8270-Modified		03/24/25	03/29/25	
Q1620-04	RW7-SP303-20250320	Water			03/20/25			03/21/25
			SVOC-SIMGroup1	8270-Modified		03/24/25	03/29/25	



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Hit Summary Sheet SW-846

SDG No.: Q1620

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RW7-SP100-20250320							
Q1620-01	RW7-SP100-20250320	WATER	1,4-Dioxane	4.500	0.07	0.2	0.2	ug/L
			Total Svoc :	4.50				
			Total Concentration:	4.50				



QC SUMMARY

- 1
- 2
- 3
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- 5
- 6
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- 8
- 9
- 10
- 11
- 12
- 13
- 14
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- 16
- 17
- 18

Surrogate Summary

SW-846

SDG No.: Q1620

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB167269BL	PB167269BL	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.31	78		55	111
		2-Fluorobiphenyl	0.4	0.29	73		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
PB167269BS	PB167269BS	2-Methylnaphthalene-d10	0.4	0.40	101		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.42	105		55	111
		2-Fluorobiphenyl	0.4	0.46	115	*	53	106
		Terphenyl-d14	0.4	0.49	122		58	132
PB167269BSD	PB167269BSD	2-Methylnaphthalene-d10	0.4	0.43	106		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.44	109		55	111
		2-Fluorobiphenyl	0.4	0.46	116	*	53	106
		Terphenyl-d14	0.4	0.52	131		58	132
Q1620-01	RW7-SP100-20250320	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.31	77		55	111
		2-Fluorobiphenyl	0.4	0.29	72		53	106
		Terphenyl-d14	0.4	0.49	123		58	132
Q1620-02	RW7-SP201-20250320	2-Methylnaphthalene-d10	0.4	0.28	69		30	150
		Fluoranthene-d10	0.4	0.36	91		30	150
		Nitrobenzene-d5	0.4	0.26	65		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.44	111		58	132
Q1620-03	RW7-SP302-20250320	2-Methylnaphthalene-d10	0.4	0.26	65		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.25	63		55	111
		2-Fluorobiphenyl	0.4	0.26	66		53	106
		Terphenyl-d14	0.4	0.44	109		58	132
Q1620-04	RW7-SP303-20250320	2-Methylnaphthalene-d10	0.4	0.30	74		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.28	71		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.64	160	*	58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1620

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN036806.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		
								Qual	Low	High	RPD
PB167269BS	1,4-Dioxane	0.4	0.38	ug/L	95				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1620

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN036814.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB167269BSD	1,4-Dioxane	0.4	0.32	ug/L	80	17			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167269BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1620

SAS No.: Q1620 SDG NO.: Q1620

Lab File ID: BN036758.D

Lab Sample ID: PB167269BL

Instrument ID: BNA_N

Date Extracted: 03/24/2025

Matrix: (soil/water) Water

Date Analyzed: 03/28/2025

Level: (low/med) LOW

Time Analyzed: 04:22

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167269BS	PB167269BS	BN036806.D	03/29/2025
RW7-SP303-20250320	Q1620-04	BN036793.D	03/29/2025
RW7-SP100-20250320	Q1620-01	BN036794.D	03/29/2025
RW7-SP201-20250320	Q1620-02	BN036795.D	03/29/2025
RW7-SP302-20250320	Q1620-03	BN036796.D	03/29/2025
PB167269BSD	PB167269BSD	BN036814.D	03/31/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1620SDG NO.: Q1620Lab File ID: BN036556.DDFTPP Injection Date: 03/10/2025Instrument ID: BNA_NDFTPP Injection Time: 11:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	58.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	52.3
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	50.7
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	6.9
275	10.0 - 60.0% of mass 198	24.8
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.9 (19.6) 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	BN036557.D	03/10/2025	11:42
SSTDICC0.2	SSTDICC0.2	BN036558.D	03/10/2025	12:18
SSTDICCC0.4	SSTDICCC0.4	BN036559.D	03/10/2025	12:54
SSTDICC0.8	SSTDICC0.8	BN036560.D	03/10/2025	13:31
SSTDICC1.6	SSTDICC1.6	BN036561.D	03/10/2025	14:07
SSTDICC3.2	SSTDICC3.2	BN036562.D	03/10/2025	14:43
SSTDICC5.0	SSTDICC5.0	BN036563.D	03/10/2025	15:19



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1620SDG NO.: Q1620Lab File ID: BN036756.DDFTPP Injection Date: 03/28/2025Instrument ID: BNA_NDFTPP Injection Time: 03:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67
68	Less than 2.0% of mass 69	0.9 (1.5) 1
69	Mass 69 relative abundance	57.5
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	53.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	8.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036757.D	03/28/2025	03:46
PB167269BL	PB167269BL	BN036758.D	03/28/2025	04:22
SSTDCCC0.4EC	SSTDCCC0.4	BN036771.D	03/28/2025	13:58



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1620 SDG NO.: Q1620Lab File ID: BN036790.DDFTPP Injection Date: 03/29/2025Instrument ID: BNA_NDFTPP Injection Time: 01:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	71.7
68	Less than 2.0% of mass 69	1.1 (1.9) 1
69	Mass 69 relative abundance	58.5
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	52.7
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	22.7
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	8.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.1 (20.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036791.D	03/29/2025	02:44
RW7-SP303-20250320	Q1620-04	BN036793.D	03/29/2025	03:56
RW7-SP100-20250320	Q1620-01	BN036794.D	03/29/2025	04:32
RW7-SP201-20250320	Q1620-02	BN036795.D	03/29/2025	05:08
RW7-SP302-20250320	Q1620-03	BN036796.D	03/29/2025	05:43
PB167269BS	PB167269BS	BN036806.D	03/29/2025	11:45
SSTDCCC0.4EC	SSTDCCC0.4	BN036807.D	03/29/2025	12:21



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1620SDG NO.: Q1620Lab File ID: BN036808.DDFTPP Injection Date: 03/31/2025Instrument ID: BNA_NDFTPP Injection Time: 10:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	70.2
68	Less than 2.0% of mass 69	1 (1.8) 1
69	Mass 69 relative abundance	58.4
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	54.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 60.0% of mass 198	23.4
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	8.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10 (21.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036809.D	03/31/2025	10:39
PB167269BSD	PB167269BSD	BN036814.D	03/31/2025	14:16
SSTDCCC0.4EC	SSTDCCC0.4	BN036815.D	03/31/2025	15:08

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1620 SAS No.: Q1620 SDG NO.: Q1620

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/28/2025

Lab File ID: BN036757.D Time Analyzed: 03:46

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	1974	7.703	4607	10.49	2750	14.33
UPPER LIMIT	3948	8.203	9214	10.988	5500	14.834
LOWER LIMIT	987	7.203	2303.5	9.988	1375	13.834
EPA SAMPLE NO.						
01 PB167269BL	2126	7.70	4744	10.50	2602	14.35

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1620 SAS No.: Q1620 SDG NO.: Q1620

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/28/2025

Lab File ID: BN036757.D Time Analyzed: 03:46

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	5937	17.087	5680	21.277	5140	23.519
UPPER LIMIT	11874	17.587	11360	21.777	10280	24.019
LOWER LIMIT	2968.5	16.587	2840	20.777	2570	23.019
EPA SAMPLE NO.						
01 PB167269BL	5169	17.10	3967	21.28	2206 *	23.53

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1620 SAS No.: Q1620 SDG NO.: Q1620

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/29/2025

Lab File ID: BN036791.D Time Analyzed: 02:44

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	1826	7.696	4490	10.48	2701	14.33
UPPER LIMIT	3652	8.196	8980	10.977	5402	14.834
LOWER LIMIT	913	7.196	2245	9.977	1350.5	13.834
EPA SAMPLE NO.						
01 PB167269BS	1846	7.70	4665	10.48	2569	14.33
02 RW7-SP100-20250320	1706	7.70	4169	10.49	2534	14.33
03 RW7-SP201-20250320	1483	7.70	3589	10.49	2207	14.33
04 RW7-SP302-20250320	1521	7.70	3536	10.49	2187	14.33
05 RW7-SP303-20250320	1389	7.70	3240	10.49	2031	14.33

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.: Q1620 SAS No.: Q1620 SDG NO.: Q1620

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/29/2025

Lab File ID: BN036791.D Time Analyzed: 02:44

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	5571	17.087	4634	21.268	4032	23.516
UPPER LIMIT	11142	17.587	9268	21.768	8064	24.016
LOWER LIMIT	2785.5	16.587	2317	20.768	2016	23.016
EPA SAMPLE NO.						
01 PB167269BS	5013	17.09	3219	21.28	1389 *	23.52
02 RW7-SP100-20250320	5367	17.09	3857	21.28	3191	23.52
03 RW7-SP201-20250320	4786	17.09	3552	21.28	2034	23.52
04 RW7-SP302-20250320	4472	17.09	3538	21.28	2845	23.52
05 RW7-SP303-20250320	4392	17.09	3210	21.28	2752	23.52

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1620 SAS No.: Q1620 SDG NO.: Q1620

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/31/2025

Lab File ID: BN036809.D Time Analyzed: 10:39

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	1888	7.695	4656	10.48	2798	14.33
UPPER LIMIT	3776	8.195	9312	10.977	5596	14.834
LOWER LIMIT	944	7.195	2328	9.977	1399	13.834
EPA SAMPLE NO.						
01 PB167269BSD	2858	7.70	7352	10.48	4021	14.33

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.: Q1620 SAS No.: Q1620 SDG NO.: Q1620

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/31/2025

Lab File ID: BN036809.D Time Analyzed: 10:39

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	5809	17.086	4586	21.277	3945	23.522
UPPER LIMIT	11618	17.586	9172	21.777	7890	24.022
LOWER LIMIT	2904.5	16.586	2293	20.777	1972.5	23.022
EPA SAMPLE NO.						
01 PB167269BSD	7787	17.09	4781	21.28	1670 *	23.52

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

- 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:	03/20/25
Project:	NWIRP Bethpage - RW7B CTO WE13 112G08005	Date Received:	03/21/25
Client Sample ID:	RW7-SP100-20250320	SDG No.:	Q1620
Lab Sample ID:	Q1620-01	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
BN036794.D	1	03/24/25 08:15	03/29/25 04:32	PB167269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.50		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		77%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		72%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		123%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1710	7.695				
1146-65-2	Naphthalene-d8	4170	10.487				
15067-26-2	Acenaphthene-d10	2530	14.334				
1517-22-2	Phenanthrene-d10	5370	17.086				
1719-03-5	Chrysene-d12	3860	21.277				
1520-96-3	Perylene-d12	3190	23.516				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036794.D
Acq On : 29 Mar 2025 04:32
Operator : RC/JU
Sample : Q1620-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250320

Quant Time: Mar 29 06:25:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

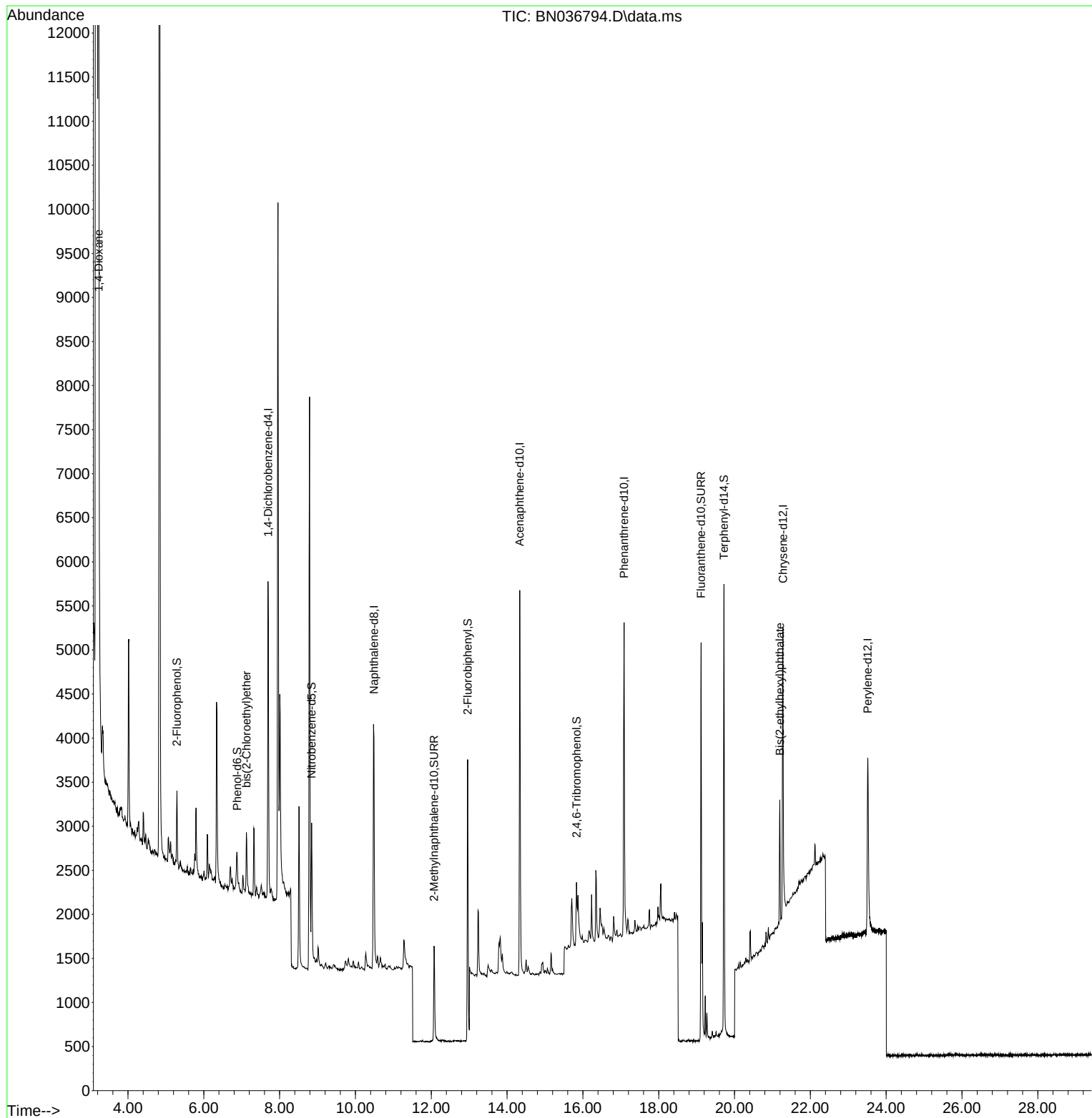
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1706	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	4169	0.400	ng	#-0.02
13) Acenaphthene-d10	14.334	164	2534	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	5367	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3857	0.400	ng	#-0.02
35) Perylene-d12	23.516	264	3191	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	612	0.154	ng	-0.02
5) Phenol-d6	6.879	99	402	0.082	ng	-0.02
8) Nitrobenzene-d5	8.843	82	1397	0.308	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	1733	0.279	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	446	0.388	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	4269	0.290	ng	-0.03
27) Fluoranthene-d10	19.118	212	5226	0.380	ng	-0.02
31) Terphenyl-d14	19.717	244	4558	0.493	ng	-0.03
Target Compounds						
2) 1,4-Dioxane	3.225	88	8577	4.532	ng	Qvalue 94
6) bis(2-Chloroethyl)ether	7.125	93	154	0.030	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.196	149	1516	0.159	ng	# 93

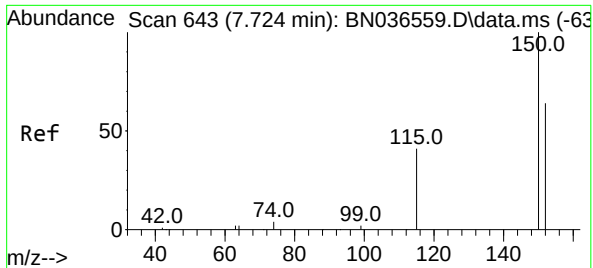
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036794.D
Acq On : 29 Mar 2025 04:32
Operator : RC/JU
Sample : Q1620-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250320

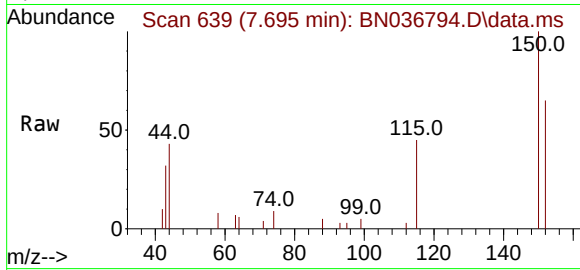
Quant Time: Mar 29 06:25:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



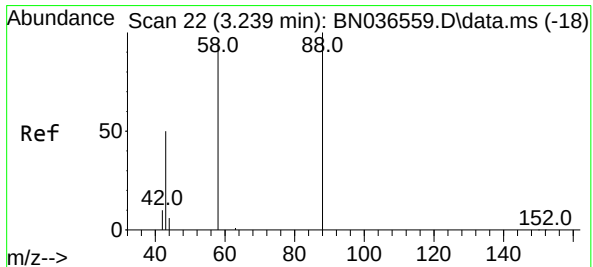
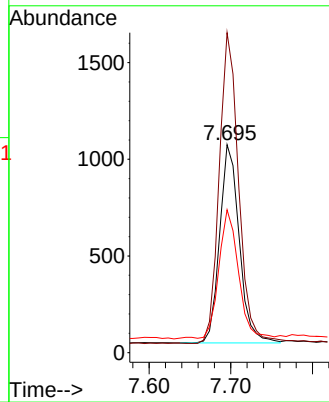
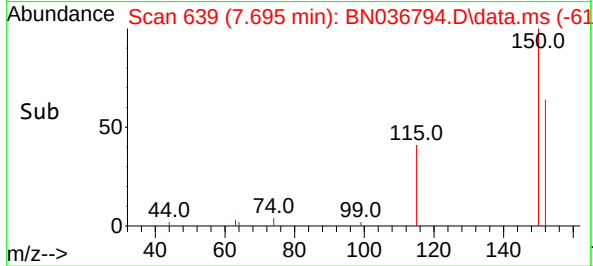


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 61
Delta R.T. -0.029 min
Lab File: BN036794.D
Acq: 29 Mar 2025 04:32

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250320

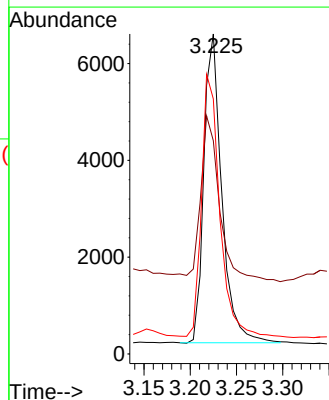
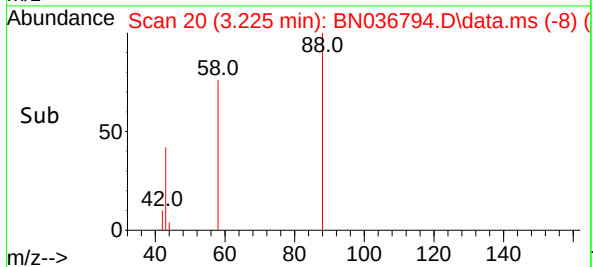
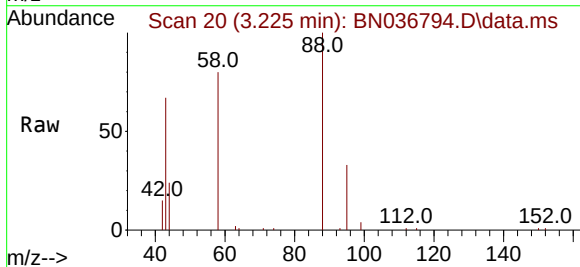


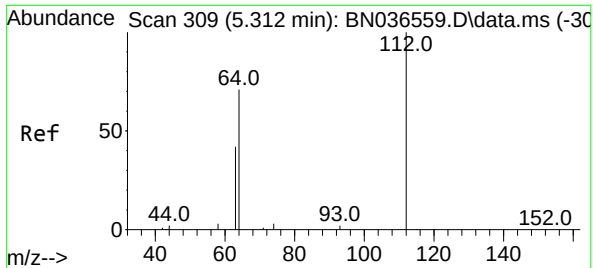
Tgt Ion:152 Resp: 1706
Ion Ratio Lower Upper
152 100
150 153.8 123.7 185.5
115 68.7 54.3 81.5



#2
1,4-Dioxane
Concen: 4.532 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036794.D
Acq: 29 Mar 2025 04:32

Tgt Ion: 88 Resp: 8577
Ion Ratio Lower Upper
88 100
43 56.4 37.8 56.8
58 85.5 67.4 101.2

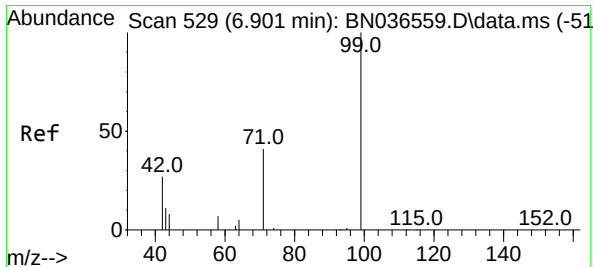
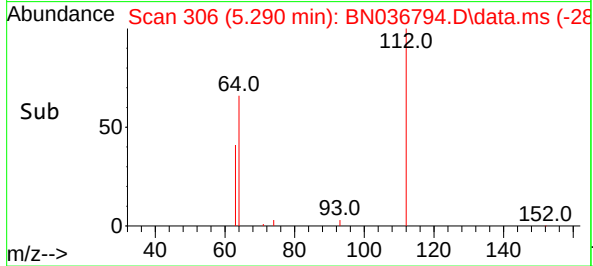
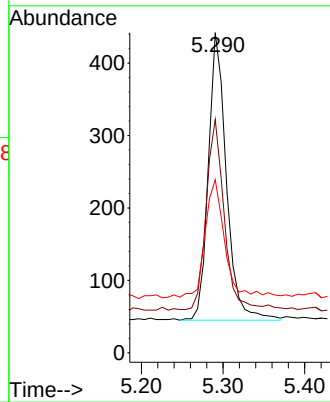
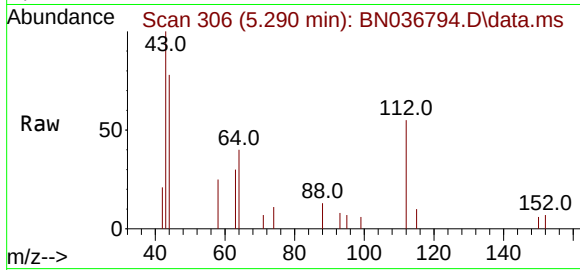




#4
2-Fluorophenol
Concen: 0.154 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036794.D
Acq: 29 Mar 2025 04:32

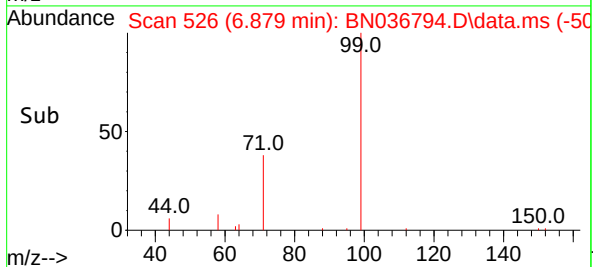
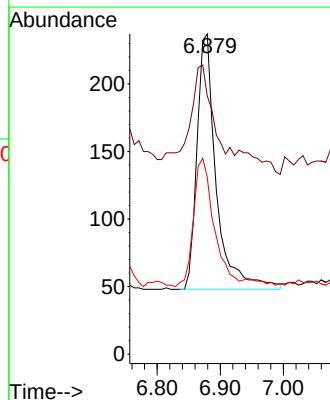
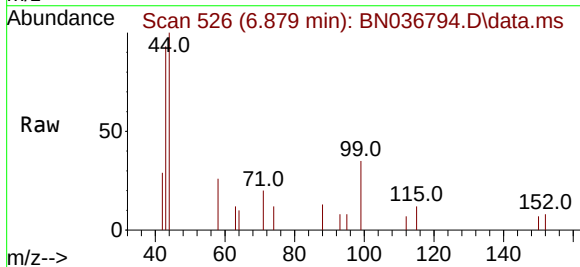
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250320

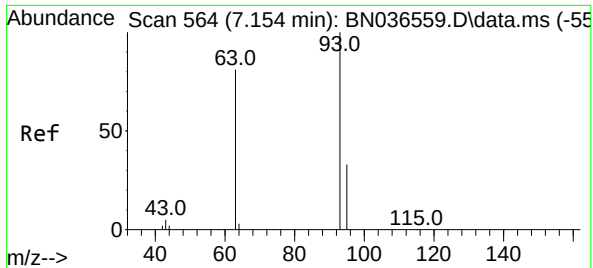
Tgt Ion:	112	Resp:	612
Ion	Ratio	Lower	Upper
112	100		
64	65.8	53.1	79.7
63	45.3	31.8	47.8



#5
Phenol-d6
Concen: 0.082 ng
RT: 6.879 min Scan# 526
Delta R.T. -0.022 min
Lab File: BN036794.D
Acq: 29 Mar 2025 04:32

Tgt Ion:	99	Resp:	402
Ion	Ratio	Lower	Upper
99	100		
42	39.6	26.5	39.7
71	53.0	34.1	51.1

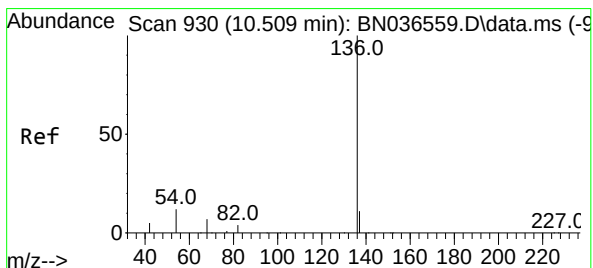
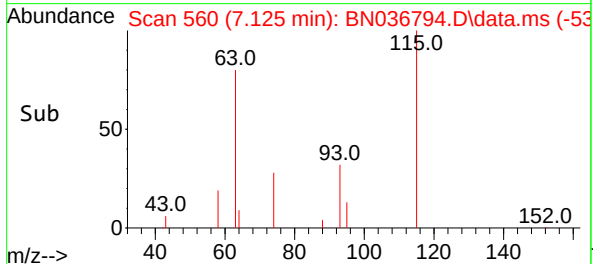
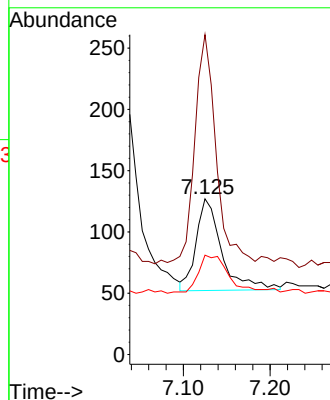
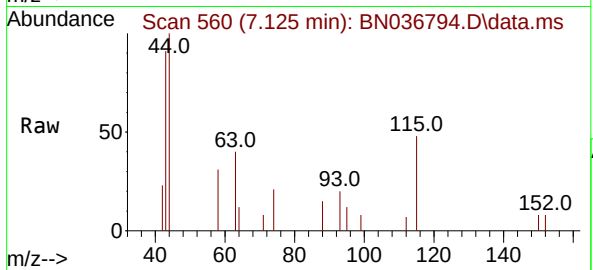




#6
bis(2-Chloroethyl)ether
Concen: 0.030 ng
RT: 7.125 min Scan# 50
Delta R.T. -0.029 min
Lab File: BN036794.D
Acq: 29 Mar 2025 04:32

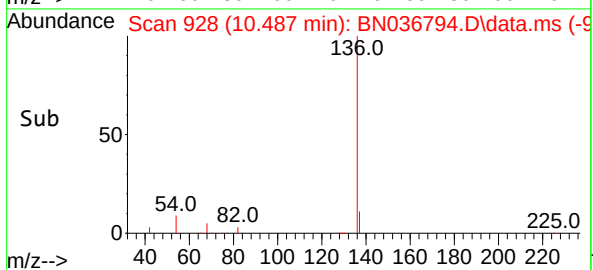
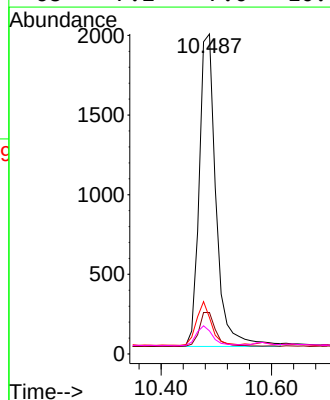
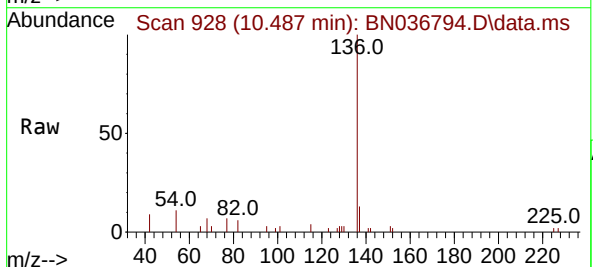
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250320

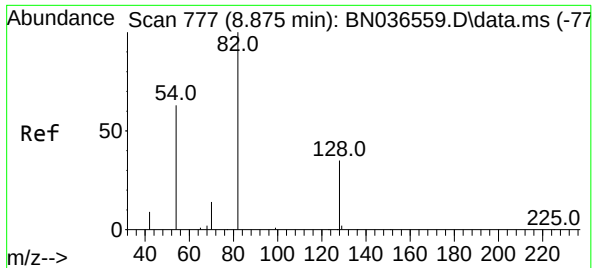
Tgt Ion: 93 Resp: 154
Ion Ratio Lower Upper
93 100
63 211.0 67.7 101.5#
95 48.7 25.6 38.4#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 928
Delta R.T. -0.021 min
Lab File: BN036794.D
Acq: 29 Mar 2025 04:32

Tgt Ion:136 Resp: 4169
Ion Ratio Lower Upper
136 100
137 12.9 10.3 15.5
54 11.3 11.5 17.3#
68 7.2 7.0 10.4

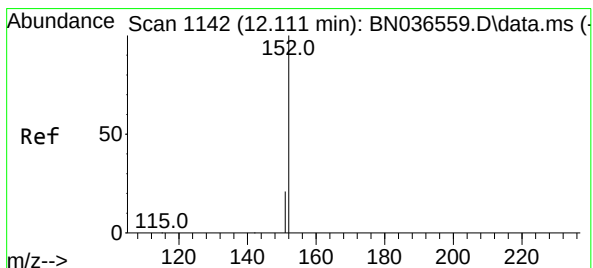
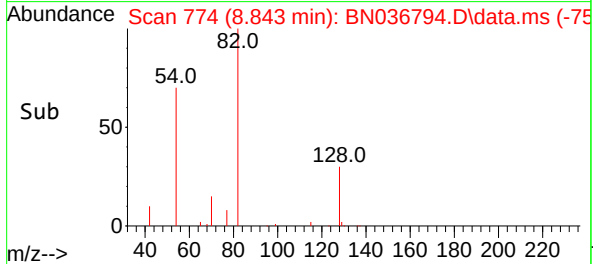
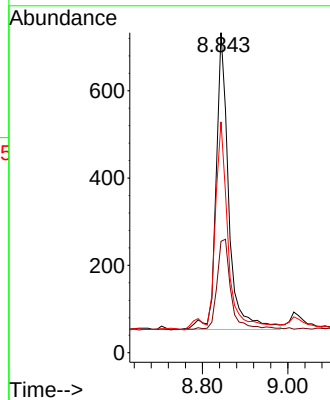
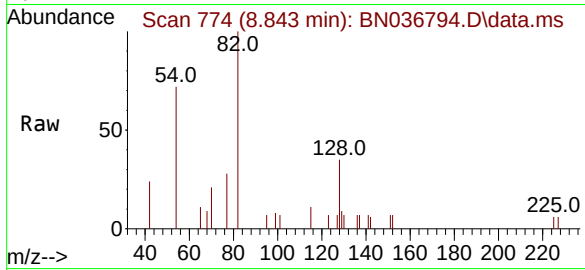




#8
Nitrobenzene-d5
Concen: 0.308 ng
RT: 8.843 min Scan# 71
Delta R.T. -0.032 min
Lab File: BN036794.D
Acq: 29 Mar 2025 04:32

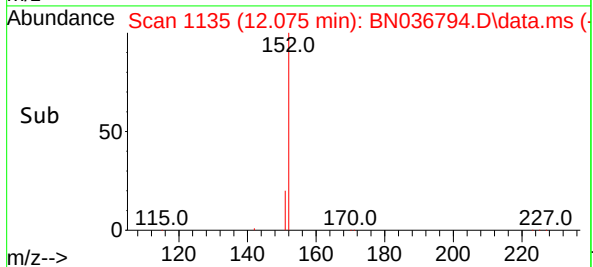
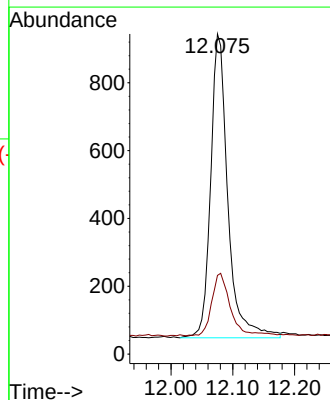
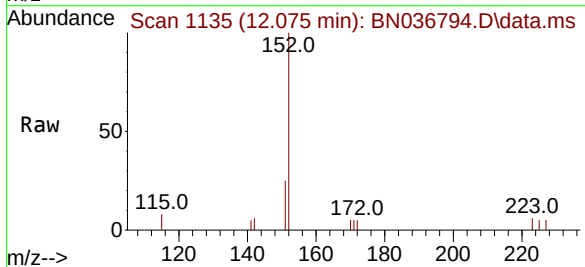
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250320

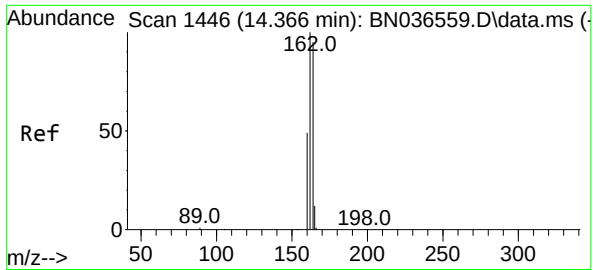
Tgt Ion:	82	Resp:	1397
Ion	Ratio	Lower	Upper
82	100		
128	34.8	30.6	45.8
54	72.2	52.2	78.4



#11
2-Methylnaphthalene-d10
Concen: 0.279 ng
RT: 12.075 min Scan# 1135
Delta R.T. -0.035 min
Lab File: BN036794.D
Acq: 29 Mar 2025 04:32

Tgt Ion:	152	Resp:	1733
Ion	Ratio	Lower	Upper
152	100		
151	22.6	17.0	25.6

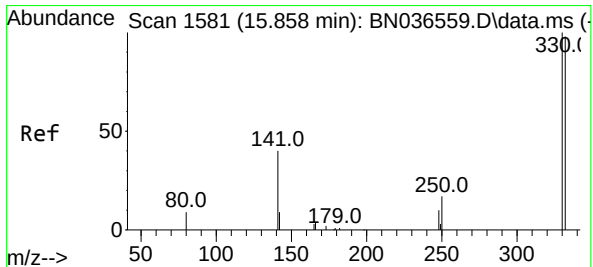
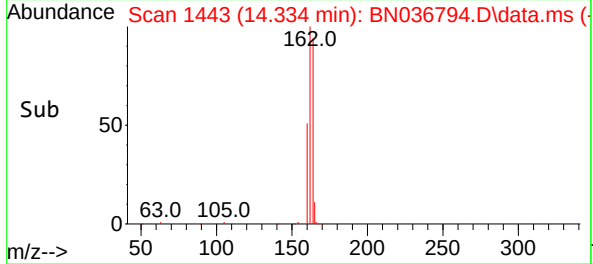
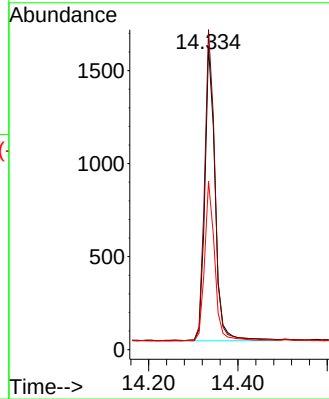
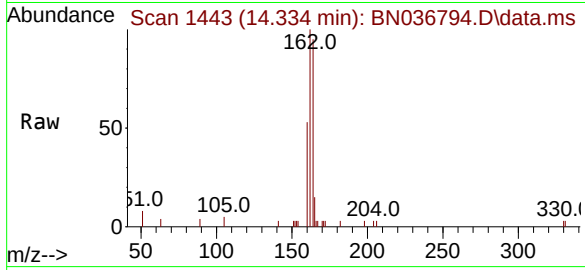




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1446
Delta R.T. -0.032 min
Lab File: BN036794.D
Acq: 29 Mar 2025 04:32

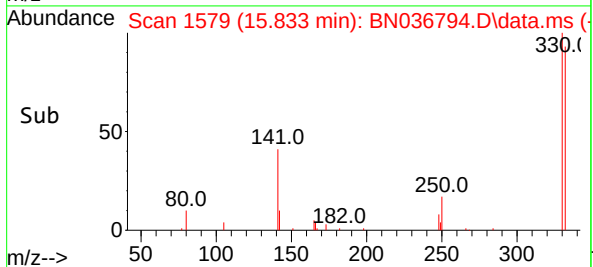
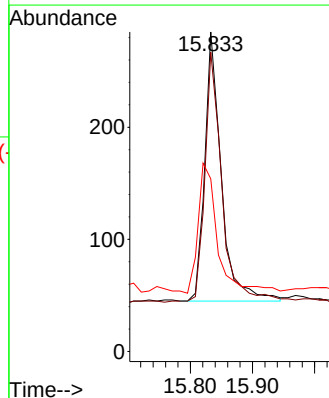
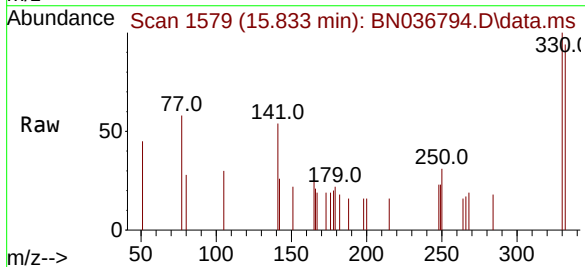
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250320

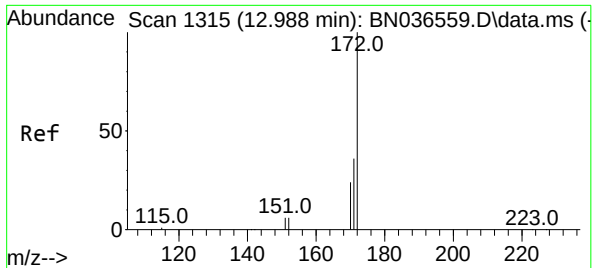
Tgt Ion:164 Resp: 2534
Ion Ratio Lower Upper
164 100
162 105.7 84.2 126.2
160 55.6 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.388 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036794.D
Acq: 29 Mar 2025 04:32

Tgt Ion:330 Resp: 446
Ion Ratio Lower Upper
330 100
332 96.6 75.2 112.8
141 53.6 43.4 65.2

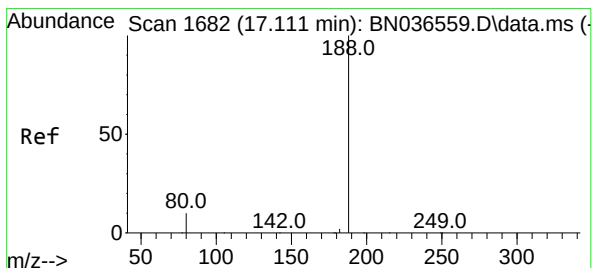
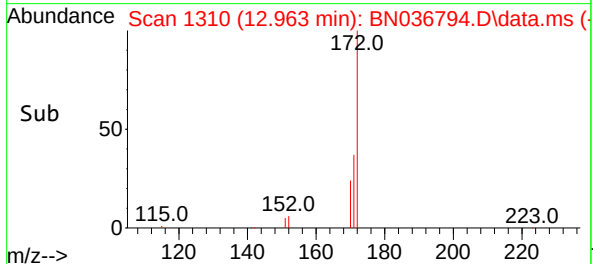
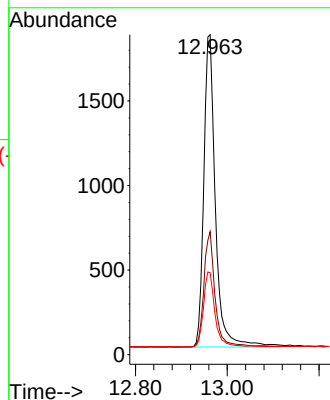
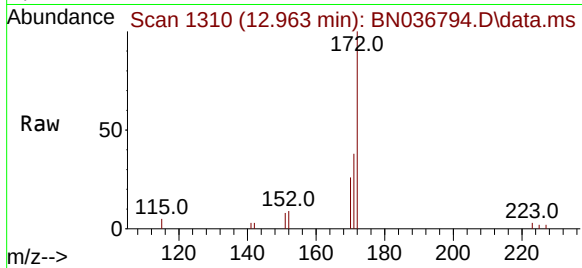




#15
2-Fluorobiphenyl
Concen: 0.290 ng
RT: 12.963 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036794.D
Acq: 29 Mar 2025 04:32

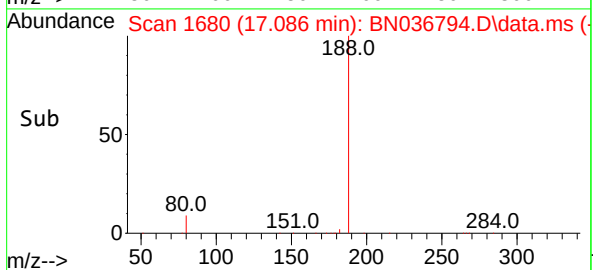
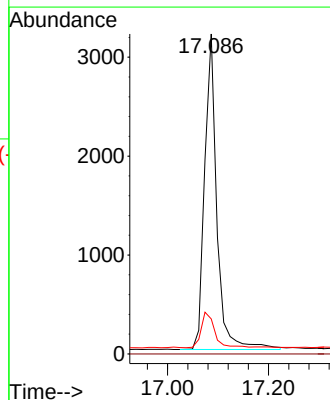
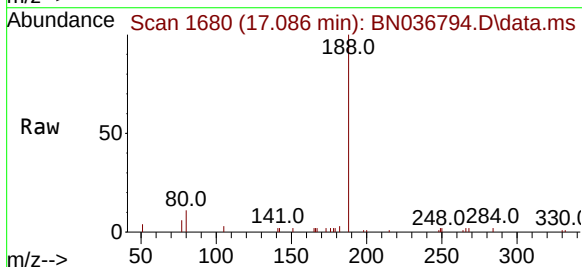
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250320

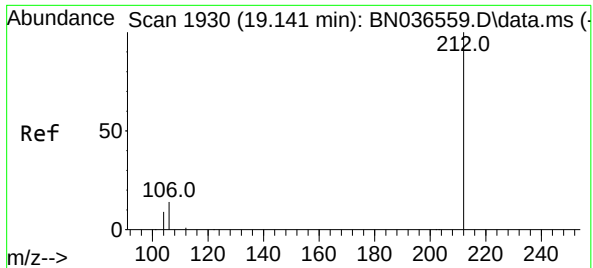
Tgt Ion:	172	Resp:	4269
Ion	Ratio	Lower	Upper
172	100		
171	38.4	29.5	44.3
170	25.6	20.2	30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036794.D
Acq: 29 Mar 2025 04:32

Tgt Ion:	188	Resp:	5367
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.9	8.8	13.2





#27

Fluoranthene-d10

Concen: 0.380 ng

RT: 19.118 min Scan# 19

Delta R.T. -0.023 min

Lab File: BN036794.D

Acq: 29 Mar 2025 04:32

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20250320

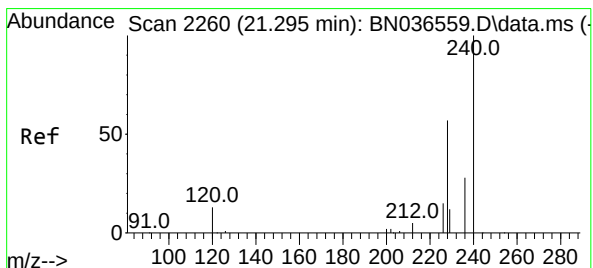
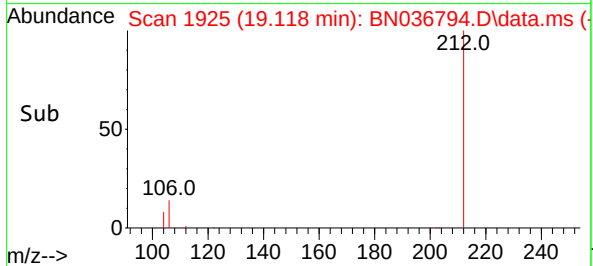
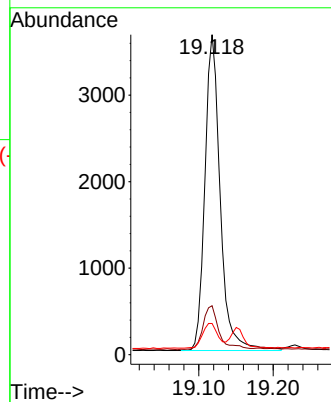
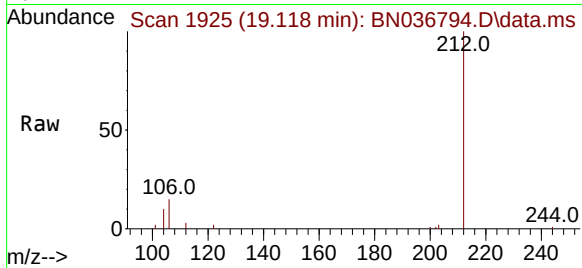
Tgt Ion:212 Resp: 5226

Ion Ratio Lower Upper

212 100

106 14.7 11.8 17.6

104 8.0 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 2258

Delta R.T. -0.018 min

Lab File: BN036794.D

Acq: 29 Mar 2025 04:32

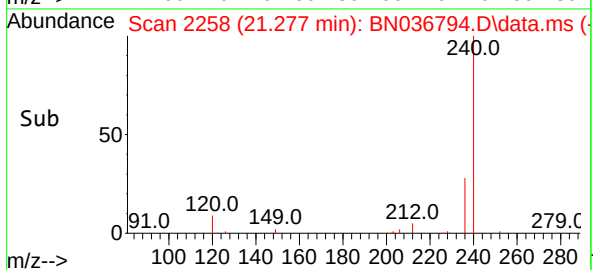
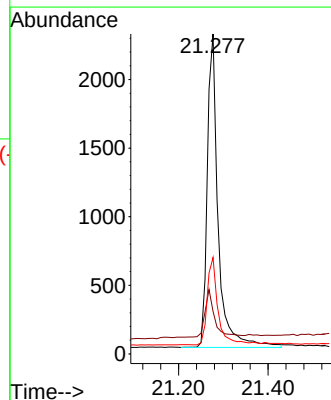
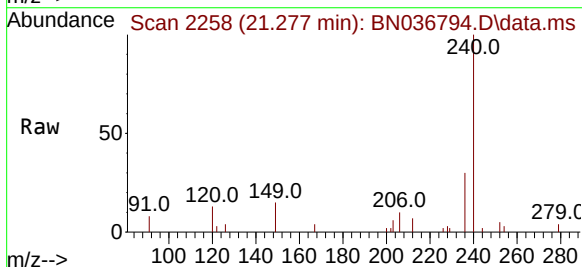
Tgt Ion:240 Resp: 3857

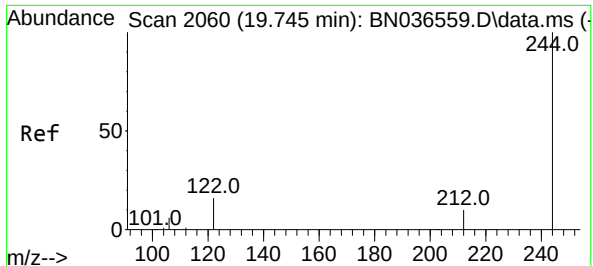
Ion Ratio Lower Upper

240 100

120 13.3 14.6 22.0#

236 30.1 24.1 36.1

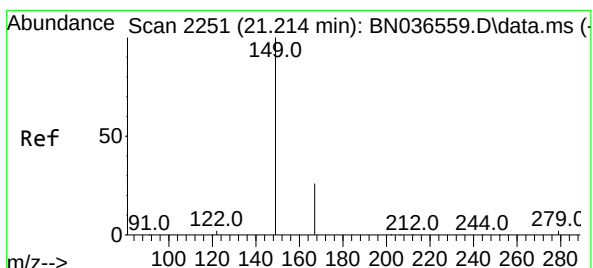
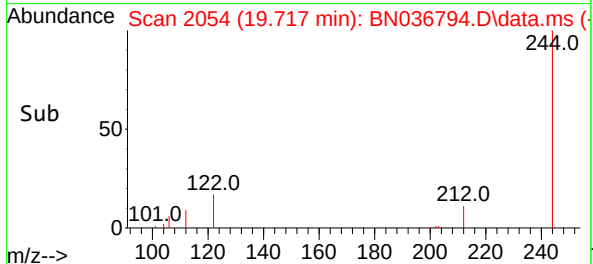
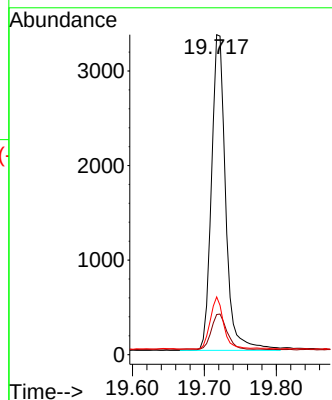
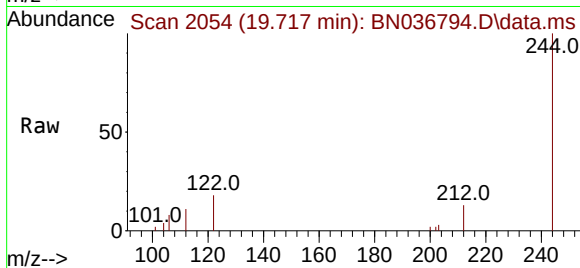




#31
Terphenyl-d14
Concen: 0.493 ng
RT: 19.717 min Scan# 2060
Delta R.T. -0.028 min
Lab File: BN036794.D
Acq: 29 Mar 2025 04:32

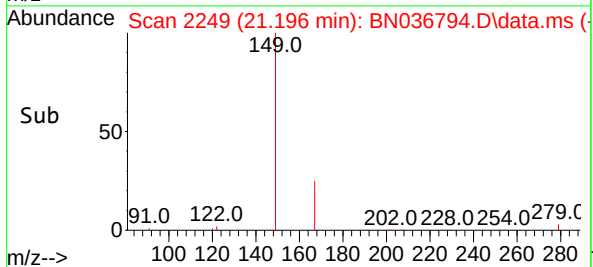
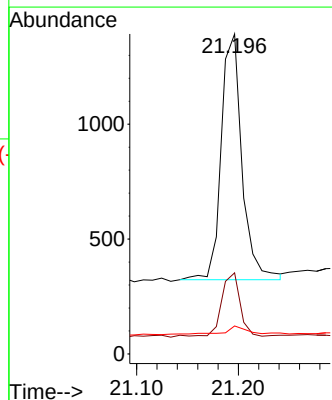
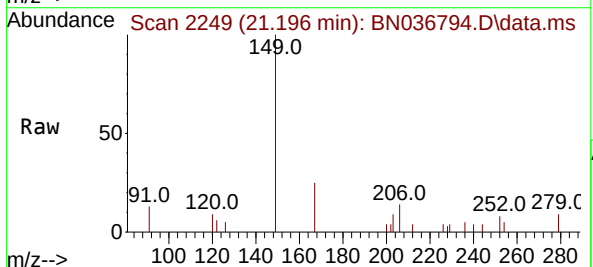
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250320

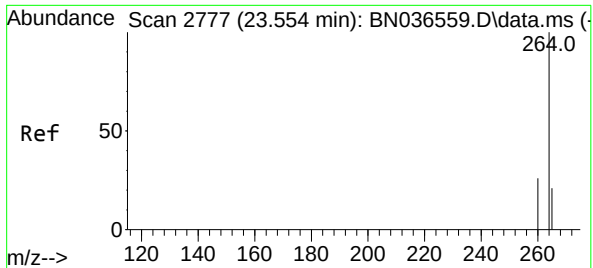
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.5	9.6	14.4
122	18.0	13.9	20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.159 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036794.D
Acq: 29 Mar 2025 04:32

Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.2	20.7	31.1
279	3.0	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.516 min Scan# 21

Delta R.T. -0.038 min

Lab File: BN036794.D

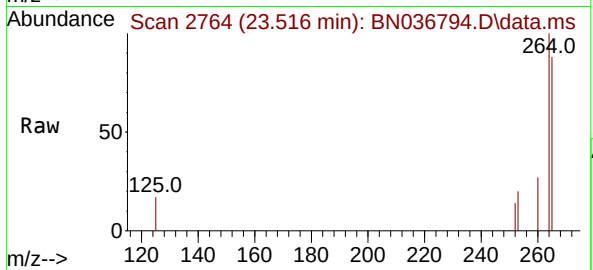
Acq: 29 Mar 2025 04:32

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20250320



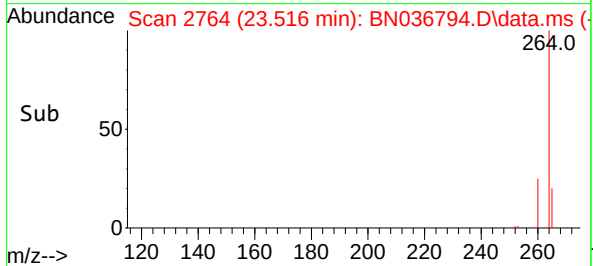
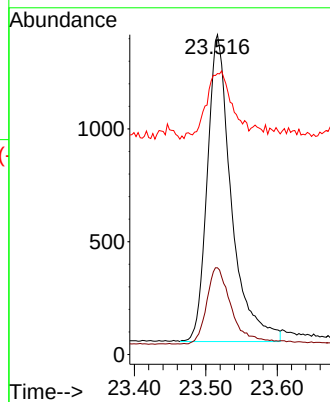
Tgt Ion:264 Resp: 3191

Ion Ratio Lower Upper

264 100

260 27.2 22.6 33.8

265 87.9 88.1 132.1#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	03/20/25
Project:	NWIRP Bethpage - RW7B CTO WE13 112G08005	Date Received:	03/21/25
Client Sample ID:	RW7-SP201-20250320	SDG No.:	Q1620
Lab Sample ID:	Q1620-02	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
BN036795.D	1	03/24/25 08:15	03/29/25 05:08	PB167269

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	0.28		30 - 150		69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		65%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		111%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1480	7.695				
1146-65-2	Naphthalene-d8	3590	10.487				
15067-26-2	Acenaphthene-d10	2210	14.334				
1517-22-2	Phenanthrene-d10	4790	17.086				
1719-03-5	Chrysene-d12	3550	21.277				
1520-96-3	Perylene-d12	2030	23.522				

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\BN032825\
Data File : BN036795.D
Acq On : 29 Mar 2025 05:08
Operator : RC/JU
Sample : Q1620-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250320

Quant Time: Mar 29 06:26:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

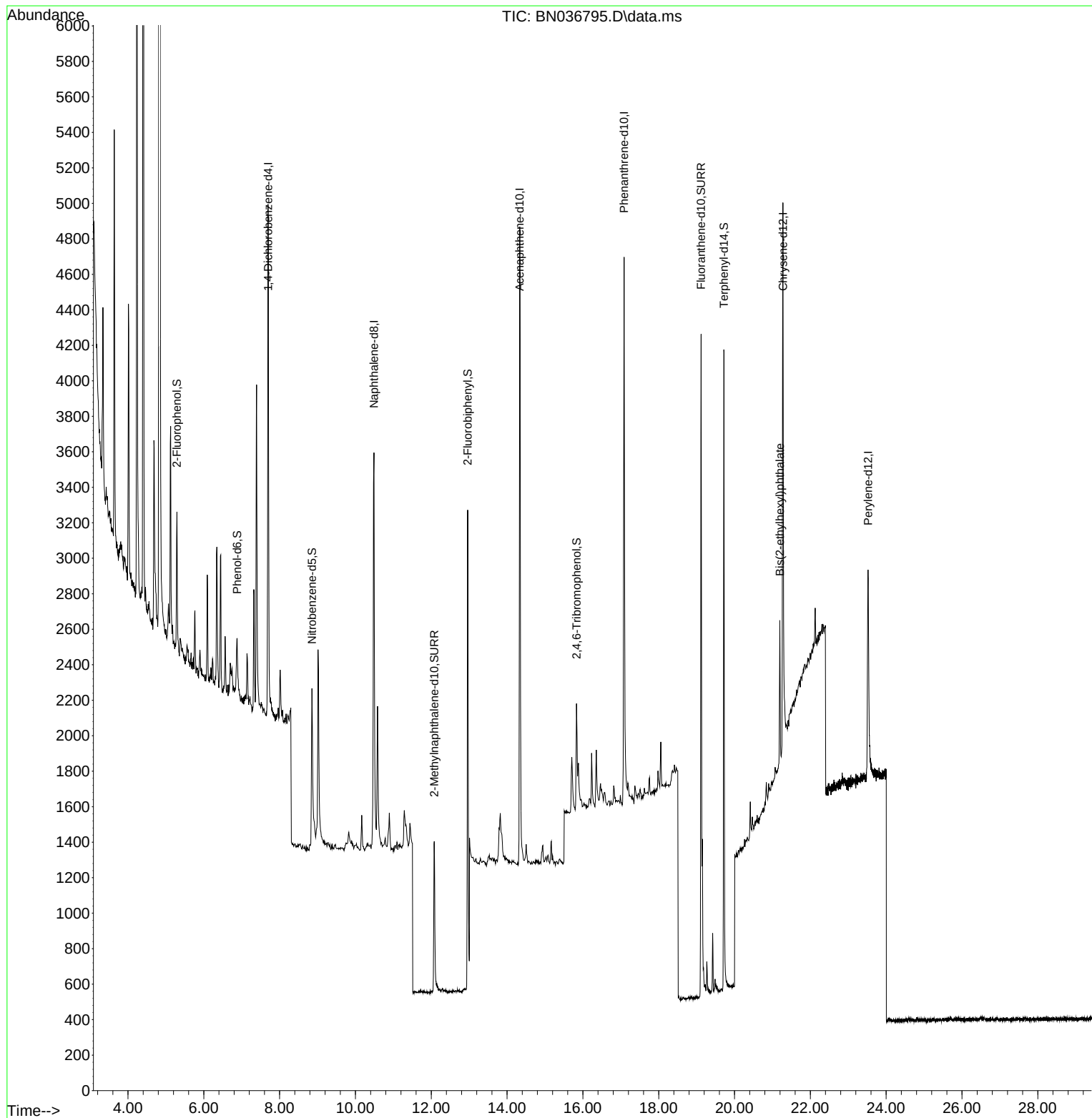
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1483	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	3589	0.400	ng	-0.02
13) Acenaphthene-d10	14.334	164	2207	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	4786	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3552	0.400	ng	-0.02
35) Perylene-d12	23.522	264	2034	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	562	0.163	ng	-0.02
5) Phenol-d6	6.879	99	363	0.085	ng	-0.02
8) Nitrobenzene-d5	8.854	82	1016	0.260	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	1479	0.277	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	401	0.400	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	3845	0.299	ng	-0.03
27) Fluoranthene-d10	19.118	212	4462	0.364	ng	-0.02
31) Terphenyl-d14	19.722	244	3771	0.443	ng	-0.02
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.196	149	844	0.096	ng	# 94

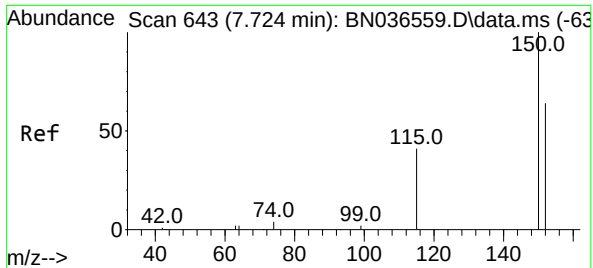
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036795.D
Acq On : 29 Mar 2025 05:08
Operator : RC/JU
Sample : Q1620-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250320

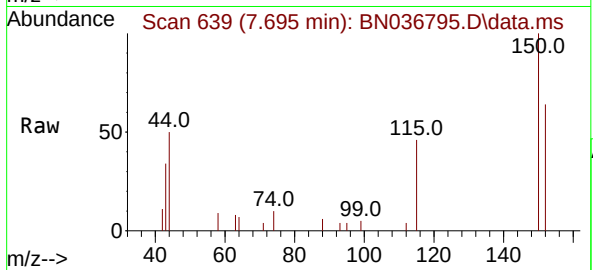
Quant Time: Mar 29 06:26:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



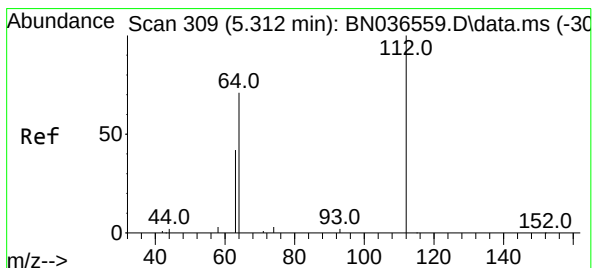
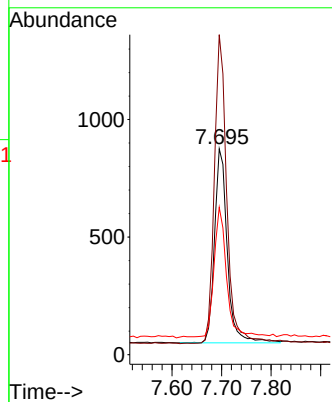
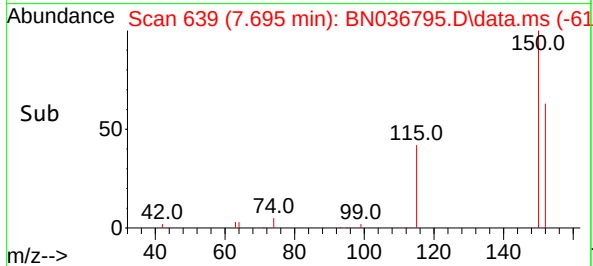


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 61
Delta R.T. -0.029 min
Lab File: BN036795.D
Acq: 29 Mar 2025 05:08

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250320

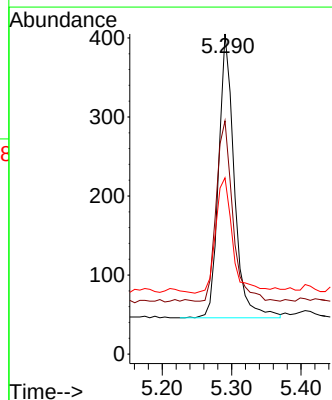
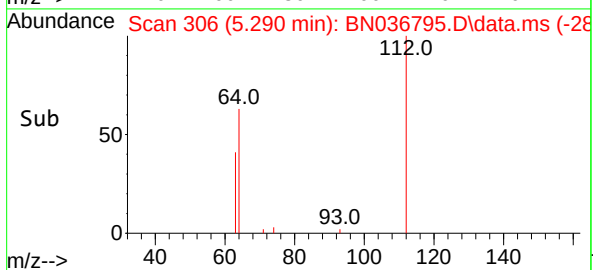
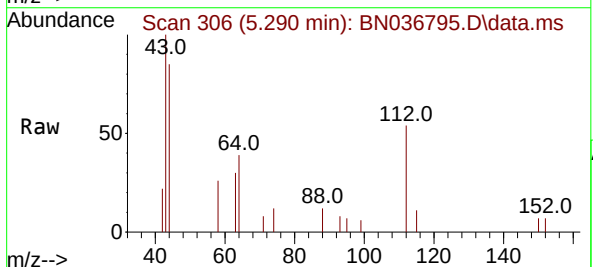


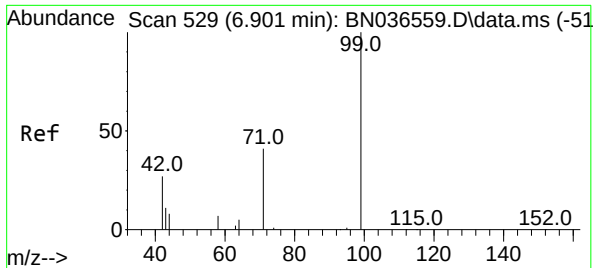
Tgt Ion:152 Resp: 1483
Ion Ratio Lower Upper
152 100
150 155.4 123.7 185.5
115 71.6 54.3 81.5



#4
2-Fluorophenol
Concen: 0.163 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036795.D
Acq: 29 Mar 2025 05:08

Tgt Ion:112 Resp: 562
Ion Ratio Lower Upper
112 100
64 66.5 53.1 79.7
63 44.5 31.8 47.8

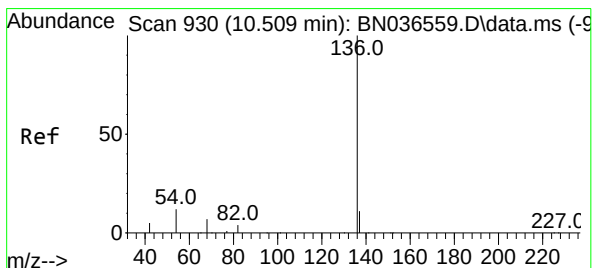
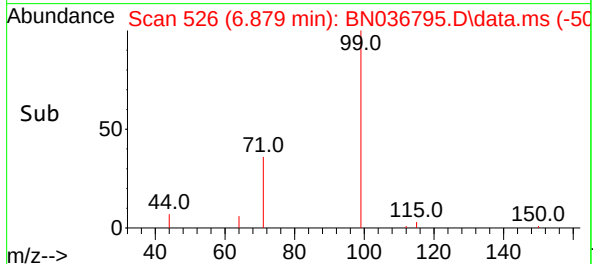
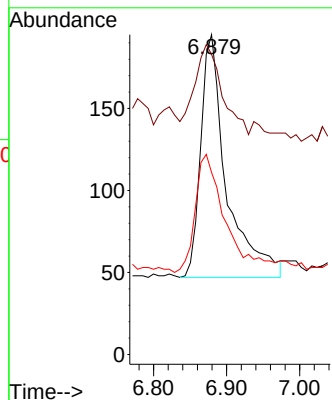
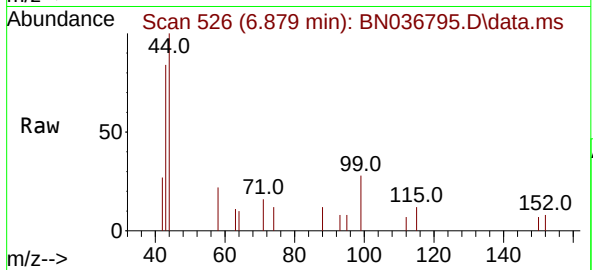




#5
Phenol-d6
Concen: 0.085 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.022 min
Lab File: BN036795.D
Acq: 29 Mar 2025 05:08

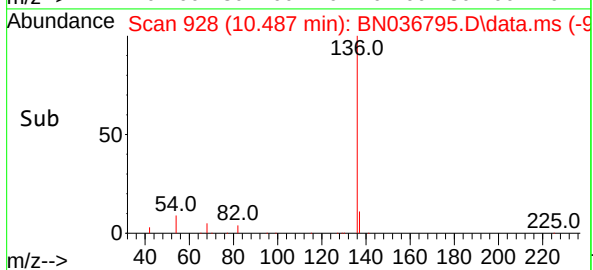
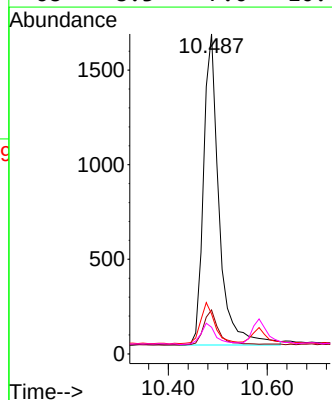
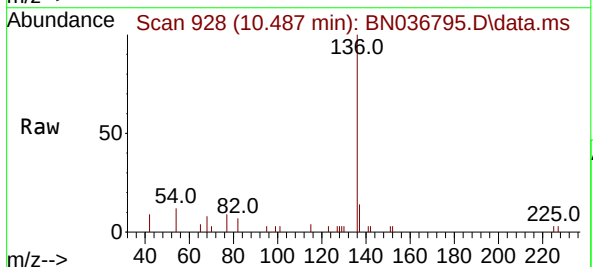
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250320

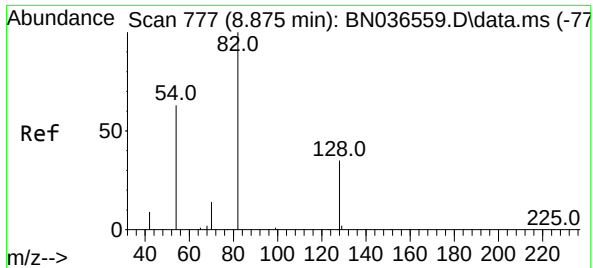
Tgt Ion: 99 Resp: 363
Ion Ratio Lower Upper
99 100
42 39.4 26.5 39.7
71 56.7 34.1 51.1#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 928
Delta R.T. -0.021 min
Lab File: BN036795.D
Acq: 29 Mar 2025 05:08

Tgt Ion: 136 Resp: 3589
Ion Ratio Lower Upper
136 100
137 13.7 10.3 15.5
54 12.5 11.5 17.3
68 8.3 7.0 10.4

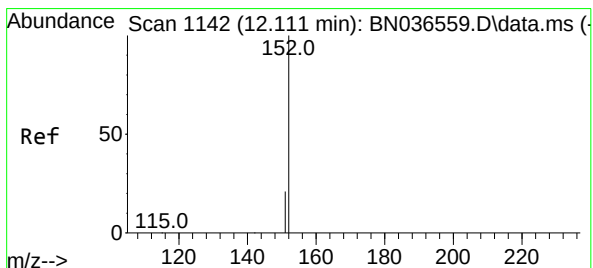
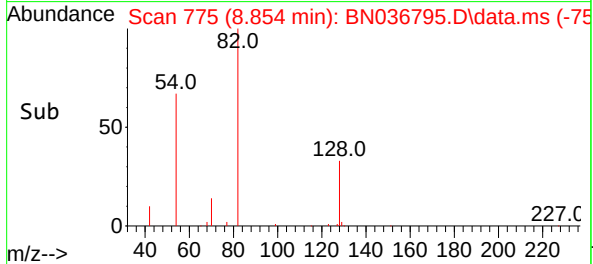
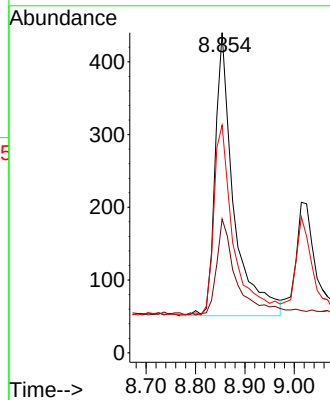
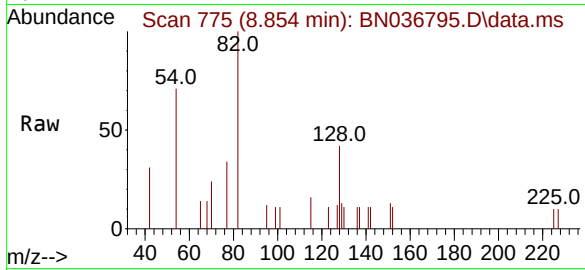




#8
Nitrobenzene-d5
Concen: 0.260 ng
RT: 8.854 min Scan# 71
Delta R.T. -0.021 min
Lab File: BN036795.D
Acq: 29 Mar 2025 05:08

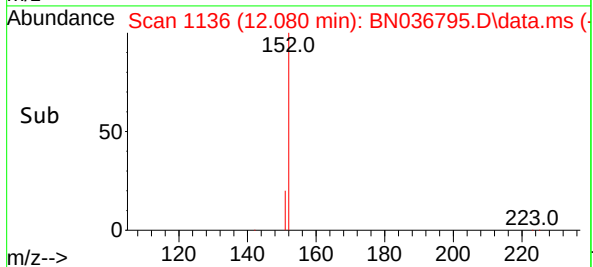
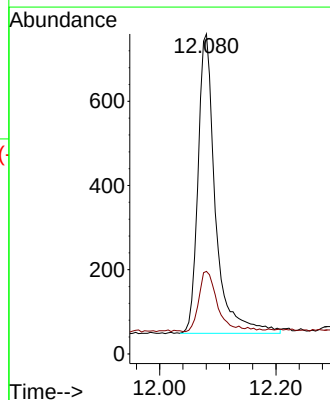
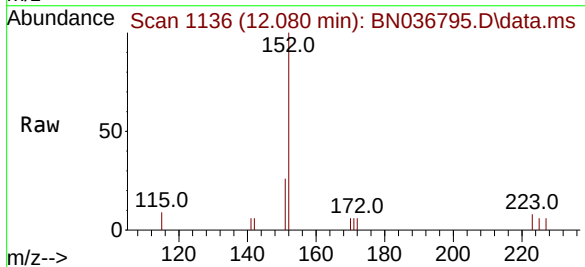
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250320

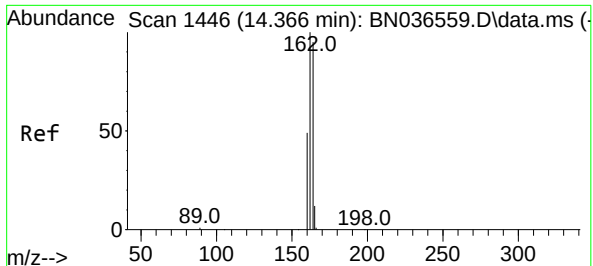
Tgt Ion: 82 Resp: 1016
Ion Ratio Lower Upper
82 100
128 41.8 30.6 45.8
54 71.1 52.2 78.4



#11
2-Methylnaphthalene-d10
Concen: 0.277 ng
RT: 12.080 min Scan# 1136
Delta R.T. -0.030 min
Lab File: BN036795.D
Acq: 29 Mar 2025 05:08

Tgt Ion: 152 Resp: 1479
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.334 min Scan# 1443

Delta R.T. -0.032 min

Lab File: BN036795.D

Acq: 29 Mar 2025 05:08

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20250320

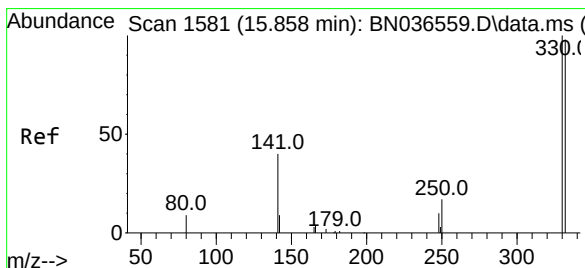
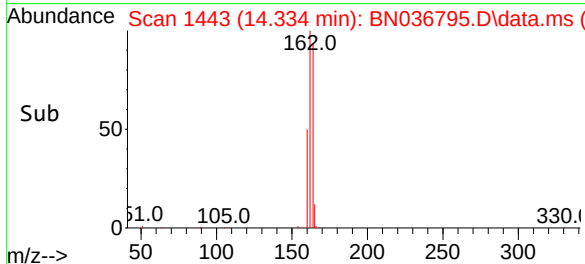
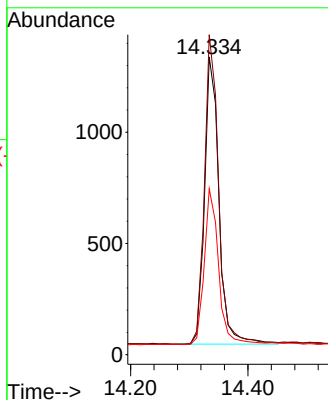
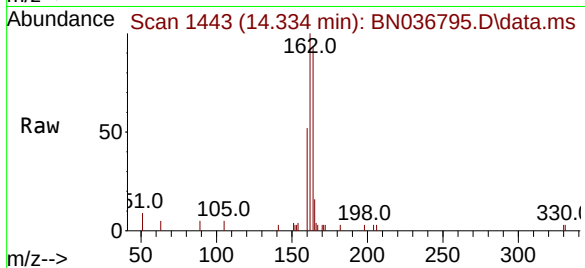
Tgt Ion:164 Resp: 2207

Ion Ratio Lower Upper

164 100

162 107.5 84.2 126.2

160 55.7 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.400 ng

RT: 15.833 min Scan# 1579

Delta R.T. -0.025 min

Lab File: BN036795.D

Acq: 29 Mar 2025 05:08

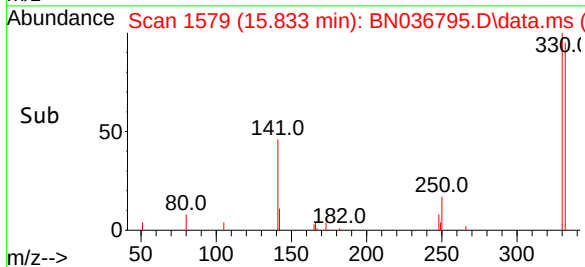
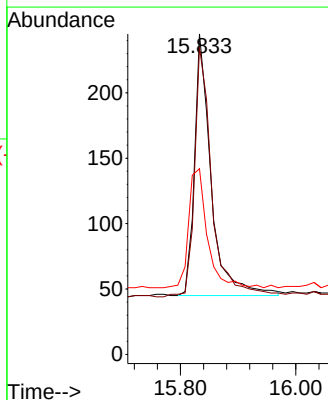
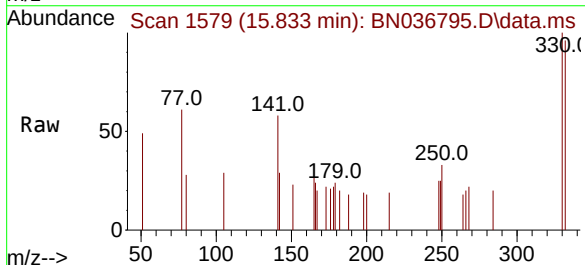
Tgt Ion:330 Resp: 401

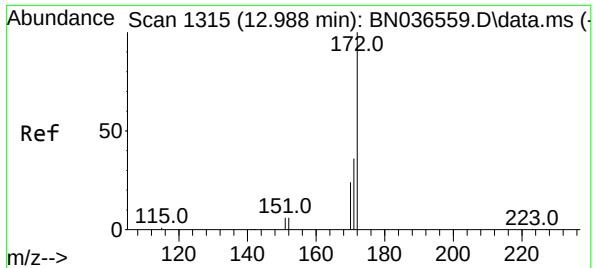
Ion Ratio Lower Upper

330 100

332 99.3 75.2 112.8

141 52.1 43.4 65.2

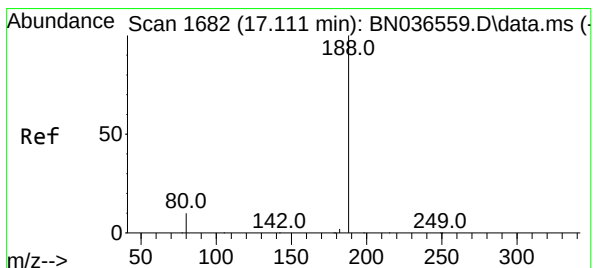
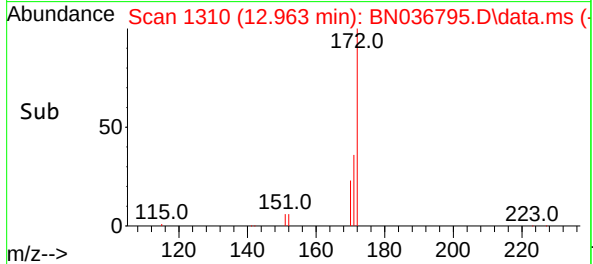
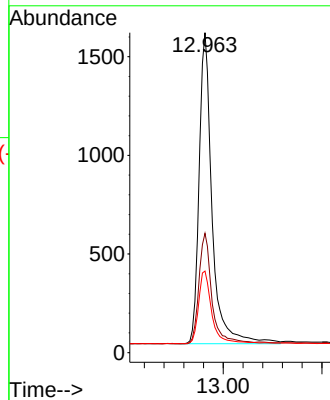
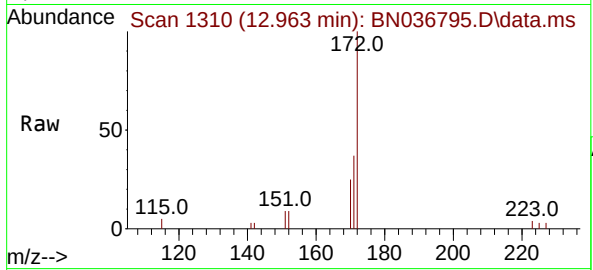




#15
2-Fluorobiphenyl
Concen: 0.299 ng
RT: 12.963 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036795.D
Acq: 29 Mar 2025 05:08

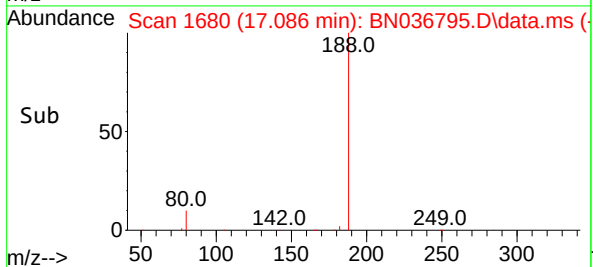
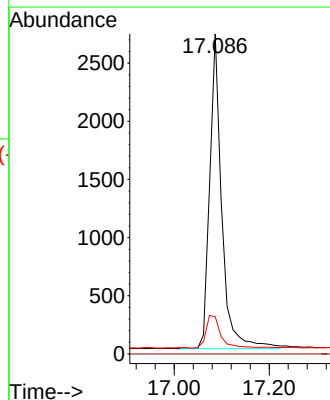
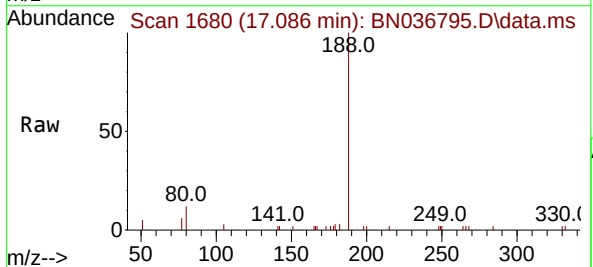
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250320

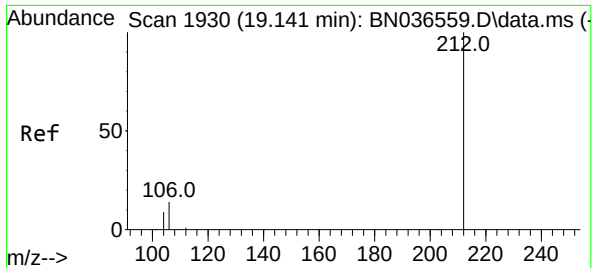
Tgt Ion:172	Resp:	3845
Ion Ratio	Lower	Upper
172	100	
171	37.3	29.5 44.3
170	25.5	20.2 30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036795.D
Acq: 29 Mar 2025 05:08

Tgt Ion:188	Resp:	4786
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0 0.0
80	11.6	8.8 13.2





#27

Fluoranthene-d10

Concen: 0.364 ng

RT: 19.118 min Scan# 19

Delta R.T. -0.023 min

Lab File: BN036795.D

Acq: 29 Mar 2025 05:08

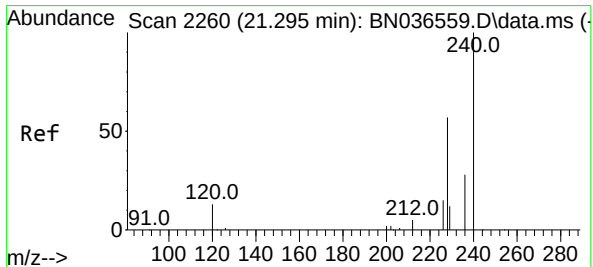
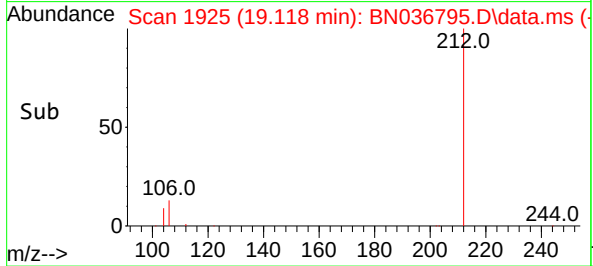
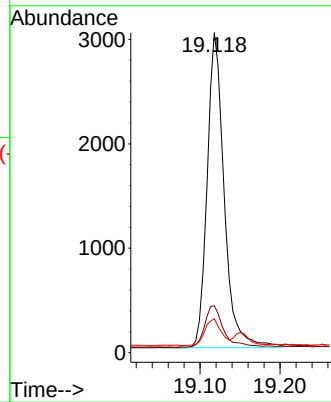
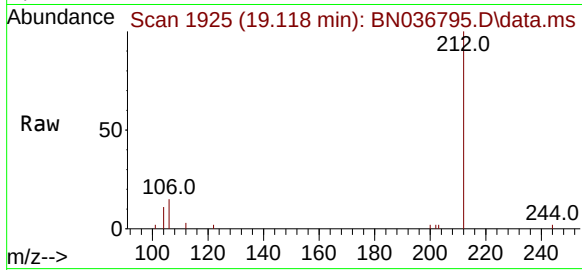
Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20250320

Tgt Ion:	212	Resp:	4462
Ion	Ratio	Lower	Upper
212	100		
106	14.5	11.8	17.6
104	8.2	7.3	10.9



#29

Chrysene-d12

Concen: 0.400 ng

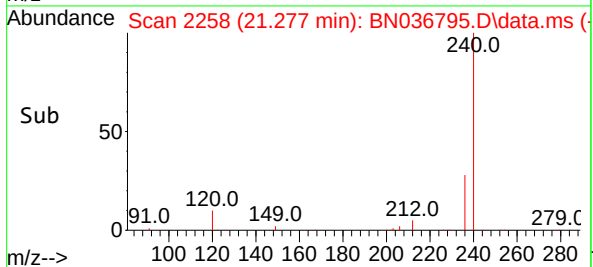
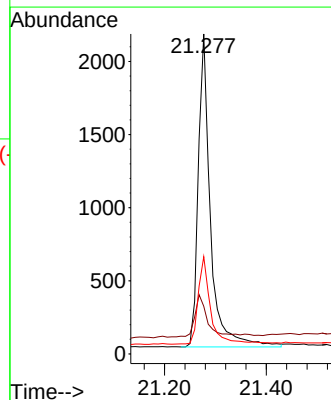
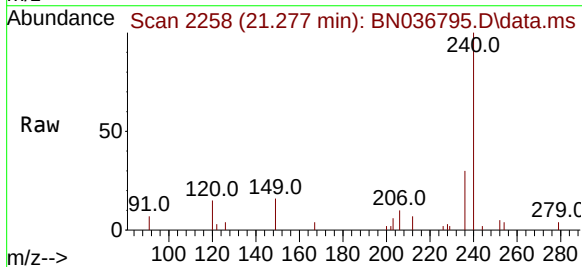
RT: 21.277 min Scan# 2258

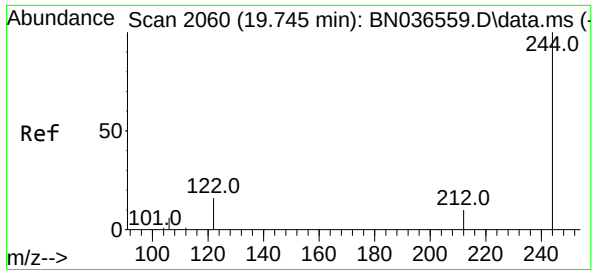
Delta R.T. -0.018 min

Lab File: BN036795.D

Acq: 29 Mar 2025 05:08

Tgt Ion:	240	Resp:	3552
Ion	Ratio	Lower	Upper
240	100		
120	14.9	14.6	22.0
236	30.4	24.1	36.1

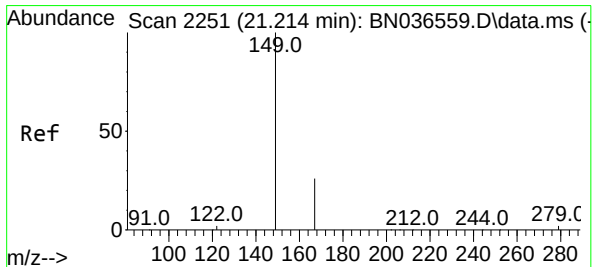
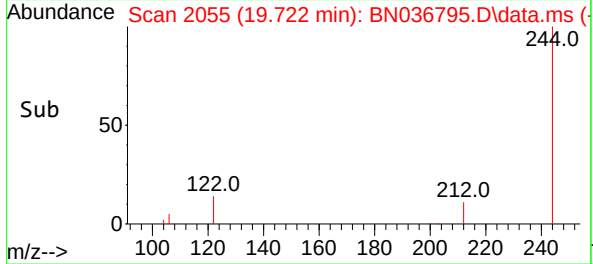
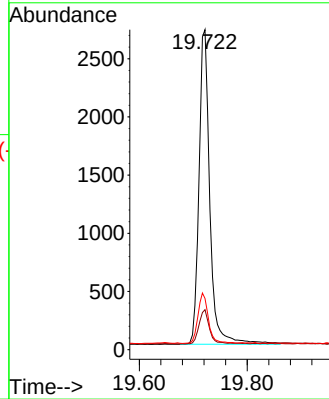
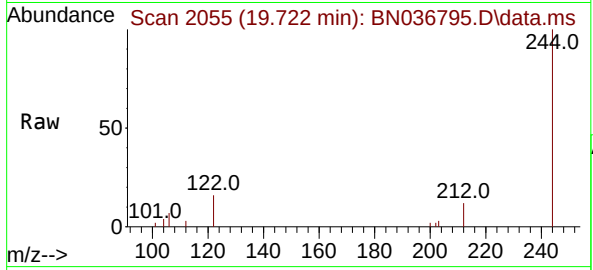




#31
Terphenyl-d14
Concen: 0.443 ng
RT: 19.722 min Scan# 2060
Delta R.T. -0.023 min
Lab File: BN036795.D
Acq: 29 Mar 2025 05:08

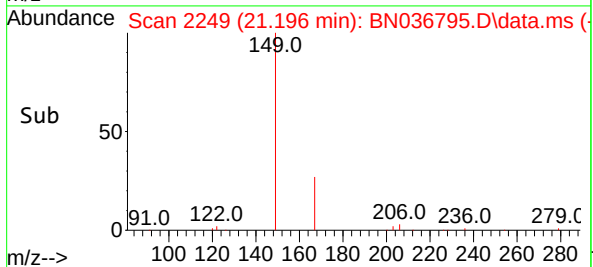
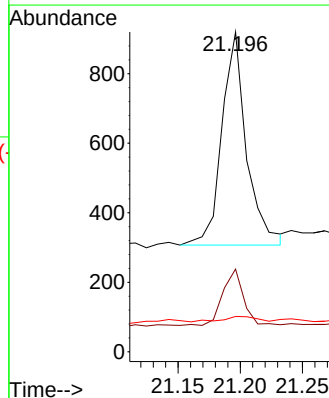
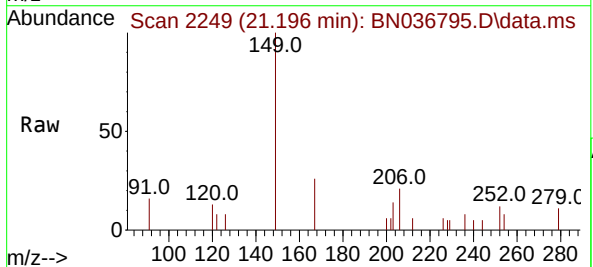
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250320

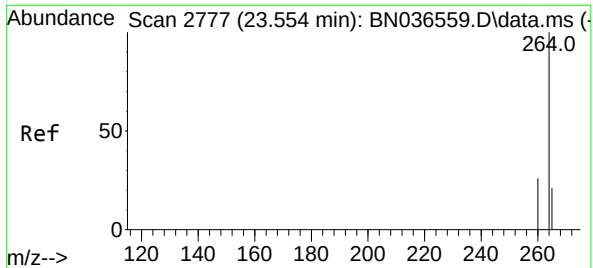
Tgt Ion:244 Resp: 3771
Ion Ratio Lower Upper
244 100
212 12.5 9.6 14.4
122 16.0 13.9 20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.096 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036795.D
Acq: 29 Mar 2025 05:08

Tgt Ion:149 Resp: 844
Ion Ratio Lower Upper
149 100
167 22.3 20.7 31.1
279 3.6 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.522 min Scan# 21

Delta R.T. -0.032 min

Lab File: BN036795.D

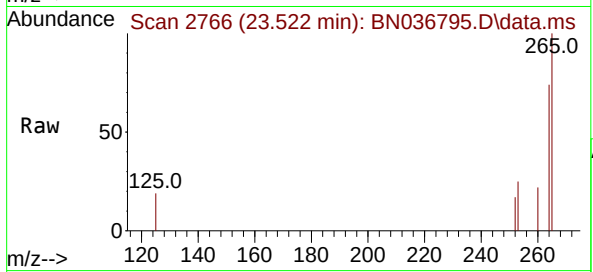
Acq: 29 Mar 2025 05:08

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20250320



Tgt Ion:264 Resp: 2034

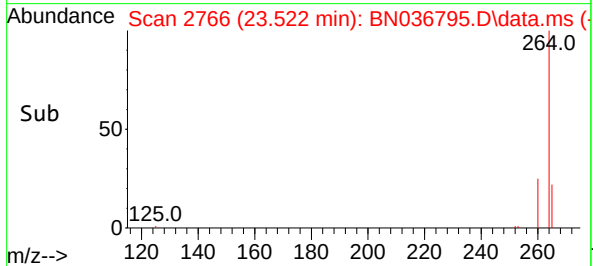
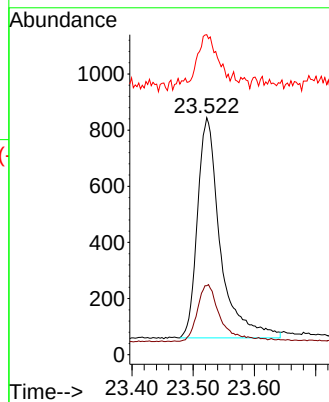
Ion	Ratio	Lower	Upper

264	100		

260	29.1	22.6	33.8

265	135.1	88.1	132.1

#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	03/20/25
Project:	NWIRP Bethpage - RW7B CTO WE13 112G08005	Date Received:	03/21/25
Client Sample ID:	RW7-SP302-20250320	SDG No.:	Q1620
Lab Sample ID:	Q1620-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036796.D	1	03/24/25 08:15	03/29/25 05:43	PB167269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		65%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.26		53 - 106		66%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		109%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1520	7.695				
1146-65-2	Naphthalene-d8	3540	10.487				
15067-26-2	Acenaphthene-d10	2190	14.334				
1517-22-2	Phenanthrene-d10	4470	17.086				
1719-03-5	Chrysene-d12	3540	21.277				
1520-96-3	Perylene-d12	2850	23.519				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036796.D
Acq On : 29 Mar 2025 05:43
Operator : RC/JU
Sample : Q1620-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250320

Quant Time: Mar 29 06:26:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

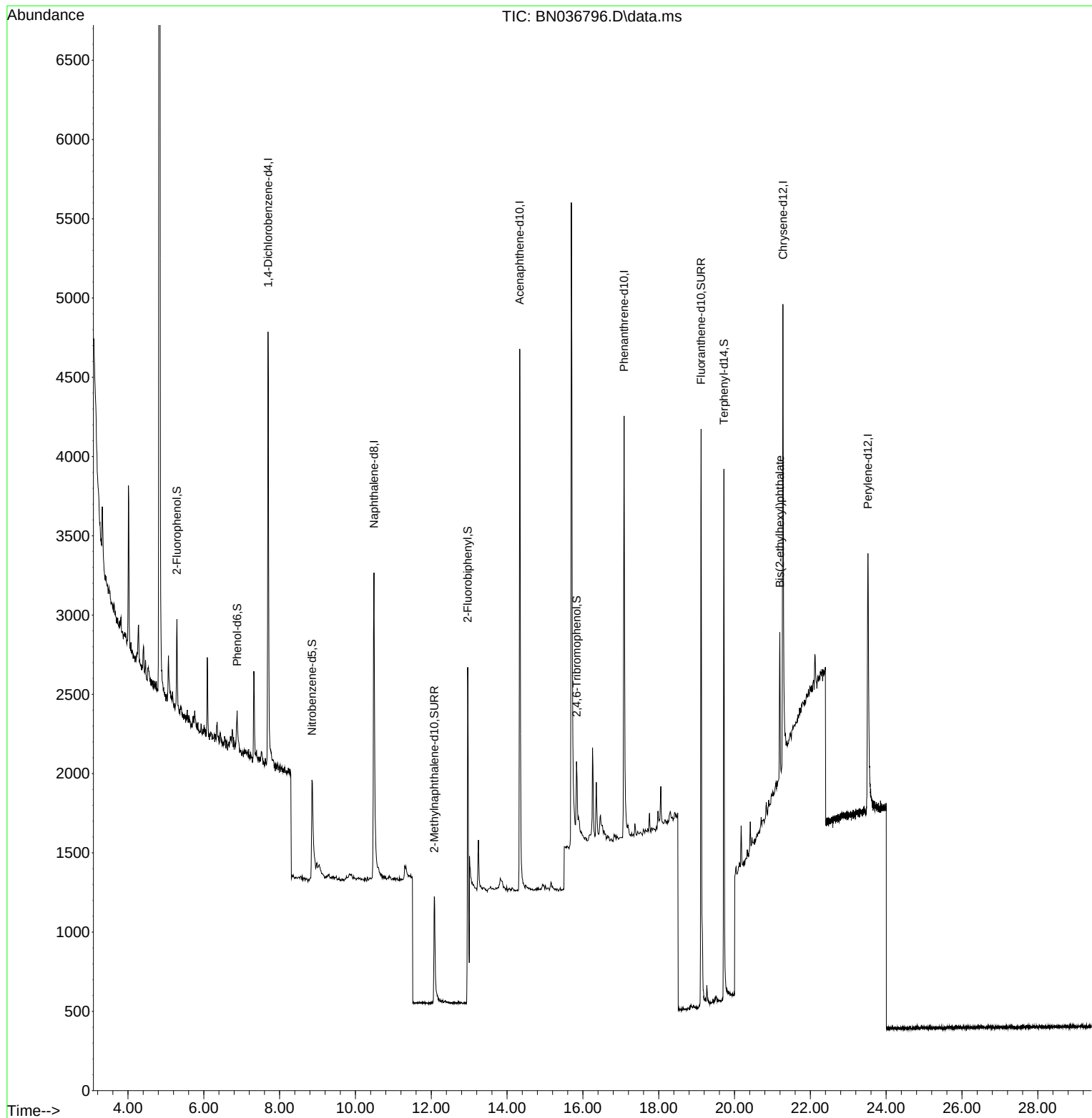
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1521	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	3536	0.400	ng	-0.02
13) Acenaphthene-d10	14.334	164	2187	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	4472	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3538	0.400	ng	-0.02
35) Perylene-d12	23.519	264	2845	0.400	ng	-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	400	0.113	ng	-0.02
5) Phenol-d6	6.879	99	283	0.065	ng	-0.02
8) Nitrobenzene-d5	8.854	82	977	0.254	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	1365	0.260	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	321	0.323	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	3360	0.264	ng	-0.03
27) Fluoranthene-d10	19.118	212	4505	0.393	ng	-0.02
31) Terphenyl-d14	19.722	244	3707	0.437	ng	-0.02
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.196	149	993	0.113	ng	Qvalue # 97

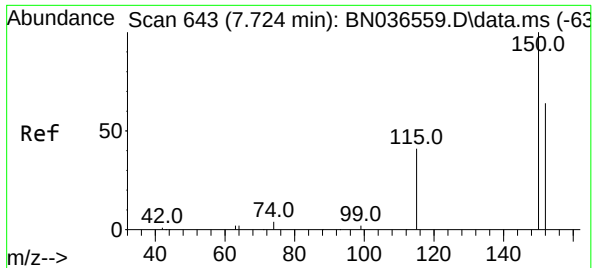
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036796.D
Acq On : 29 Mar 2025 05:43
Operator : RC/JU
Sample : Q1620-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250320

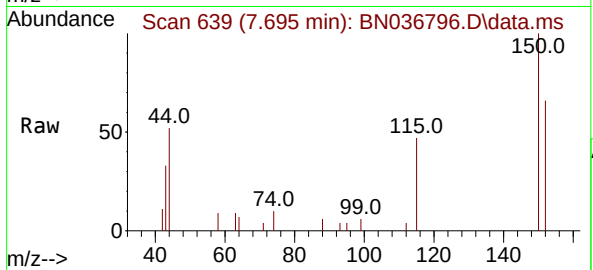
Quant Time: Mar 29 06:26:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



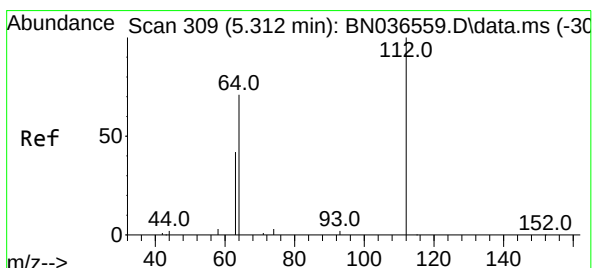
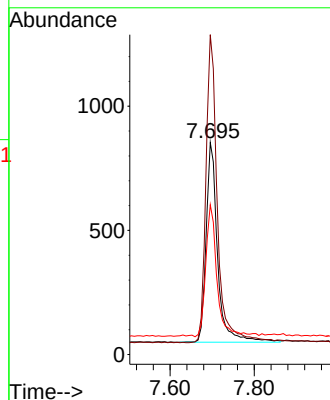
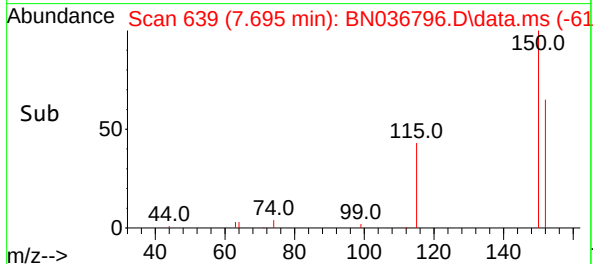


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 61
Delta R.T. -0.029 min
Lab File: BN036796.D
Acq: 29 Mar 2025 05:43

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250320

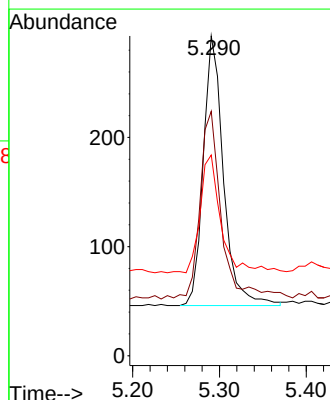
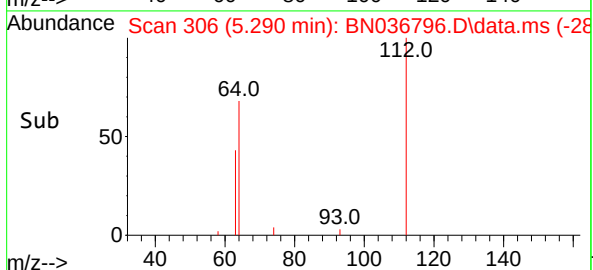
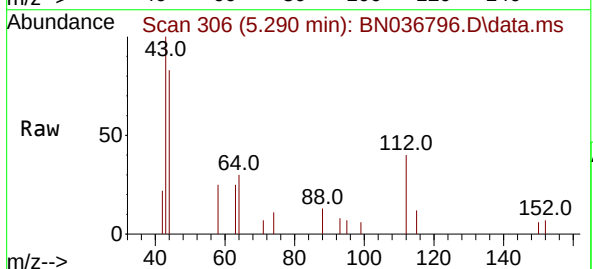


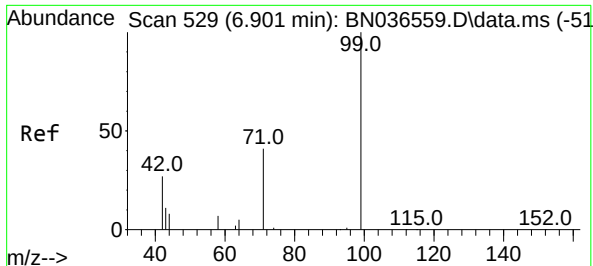
Tgt Ion:152 Resp: 1521
Ion Ratio Lower Upper
152 100
150 150.8 123.7 185.5
115 70.6 54.3 81.5



#4
2-Fluorophenol
Concen: 0.113 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036796.D
Acq: 29 Mar 2025 05:43

Tgt Ion:112 Resp: 400
Ion Ratio Lower Upper
112 100
64 74.5 53.1 79.7
63 46.0 31.8 47.8

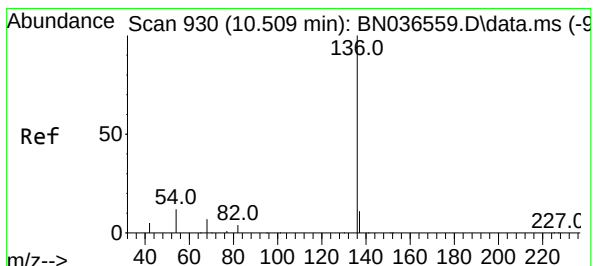
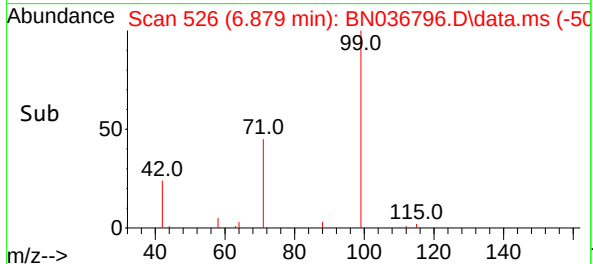
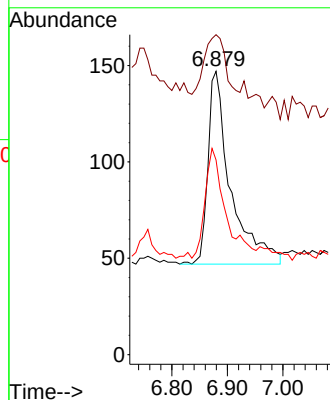
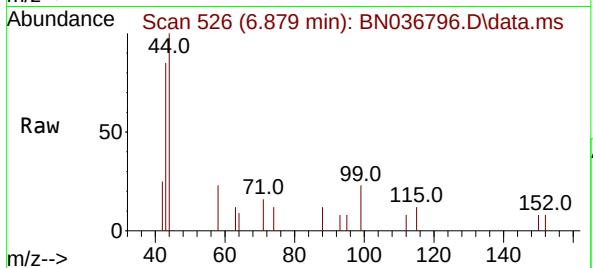




#5
Phenol-d6
Concen: 0.065 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.022 min
Lab File: BN036796.D
Acq: 29 Mar 2025 05:43

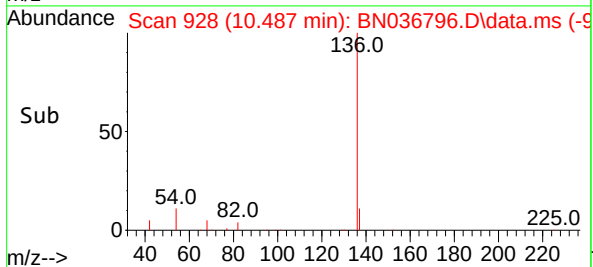
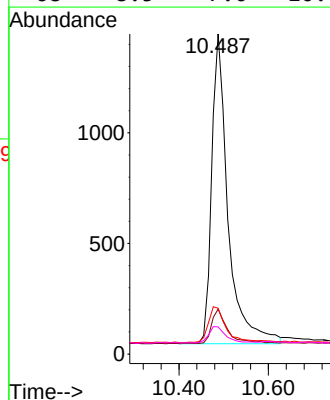
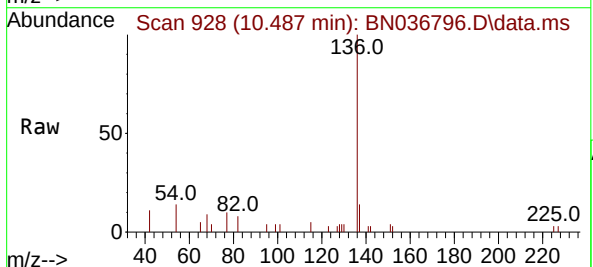
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250320

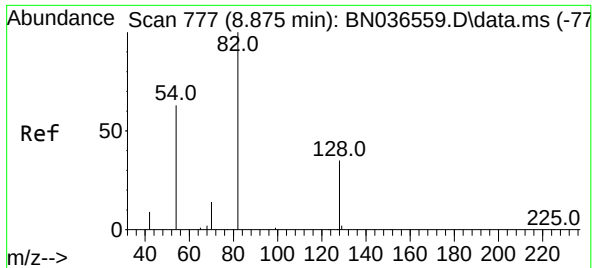
Tgt Ion: 99 Resp: 283
Ion Ratio Lower Upper
99 100
42 27.6 26.5 39.7
71 51.6 34.1 51.1#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 928
Delta R.T. -0.021 min
Lab File: BN036796.D
Acq: 29 Mar 2025 05:43

Tgt Ion: 136 Resp: 3536
Ion Ratio Lower Upper
136 100
137 14.0 10.3 15.5
54 14.3 11.5 17.3
68 8.5 7.0 10.4

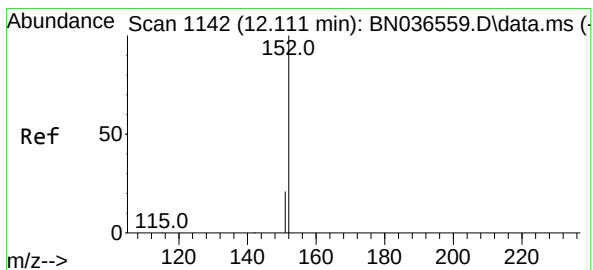
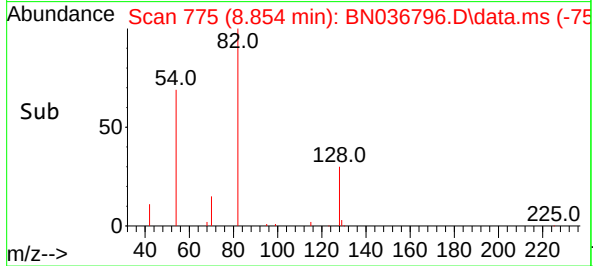
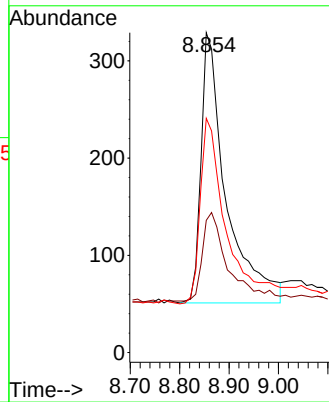
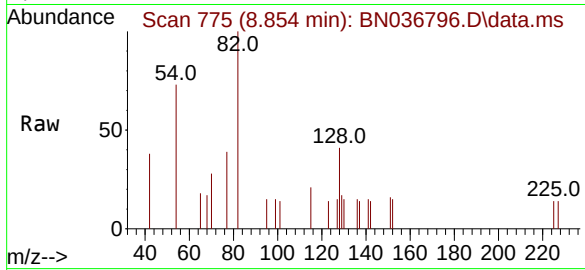




#8
Nitrobenzene-d5
Concen: 0.254 ng
RT: 8.854 min Scan# 71
Delta R.T. -0.021 min
Lab File: BN036796.D
Acq: 29 Mar 2025 05:43

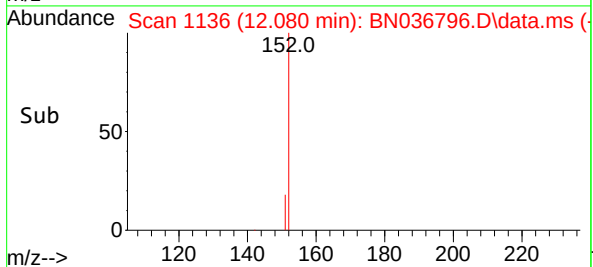
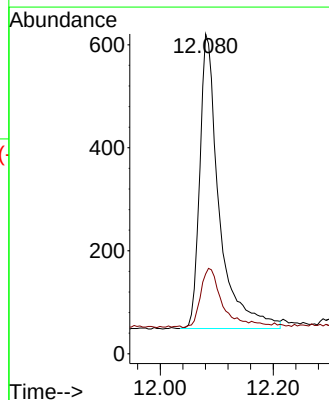
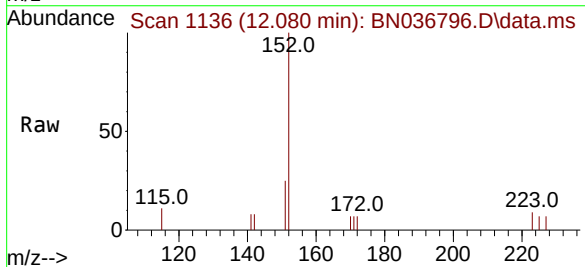
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250320

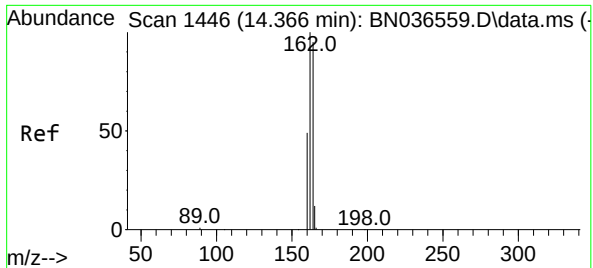
Tgt Ion:	82	Resp:	977
Ion Ratio	Lower	Upper	
82	100		
128	41.3	30.6	45.8
54	73.3	52.2	78.4



#11
2-Methylnaphthalene-d10
Concen: 0.260 ng
RT: 12.080 min Scan# 1136
Delta R.T. -0.030 min
Lab File: BN036796.D
Acq: 29 Mar 2025 05:43

Tgt Ion:	152	Resp:	1365
Ion Ratio	Lower	Upper	
152	100		
151	21.6	17.0	25.6

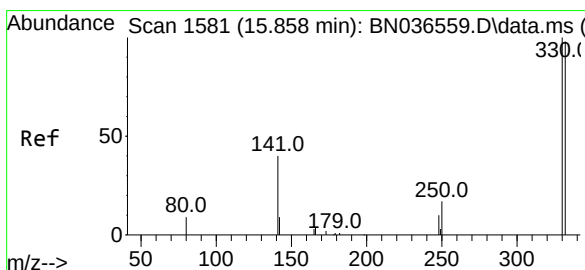
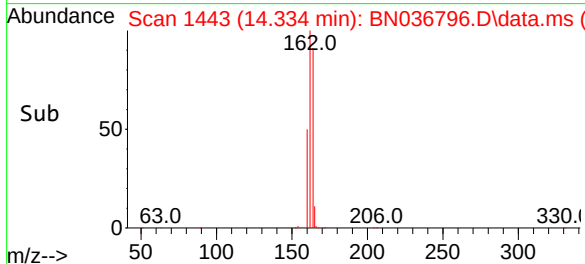
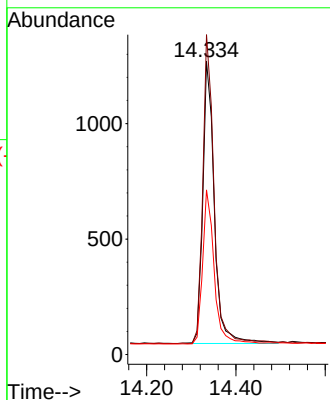
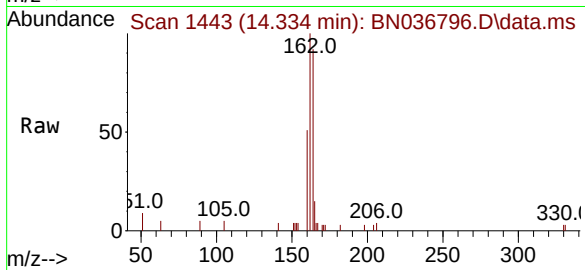




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036796.D
Acq: 29 Mar 2025 05:43

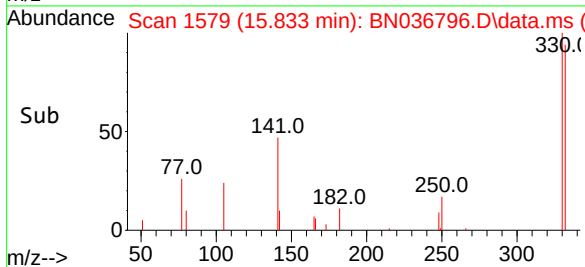
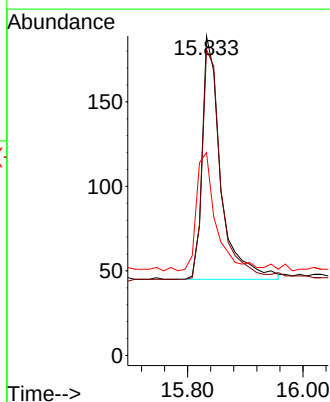
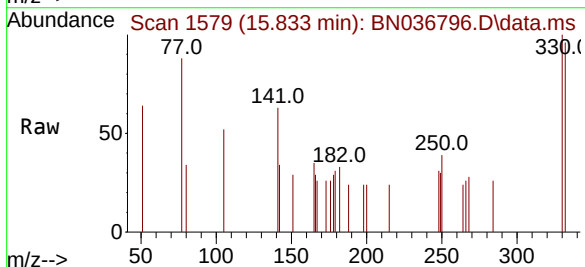
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250320

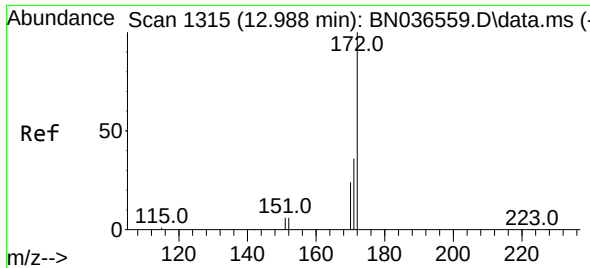
Tgt Ion:164 Resp: 2187
Ion Ratio Lower Upper
164 100
162 109.1 84.2 126.2
160 56.2 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.323 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036796.D
Acq: 29 Mar 2025 05:43

Tgt Ion:330 Resp: 321
Ion Ratio Lower Upper
330 100
332 96.9 75.2 112.8
141 51.4 43.4 65.2

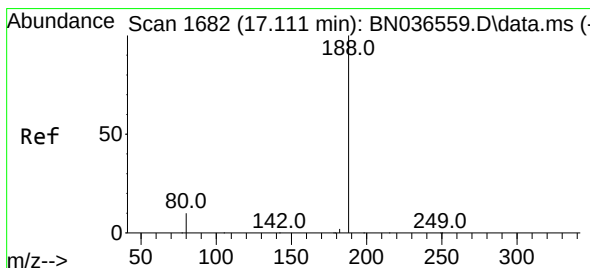
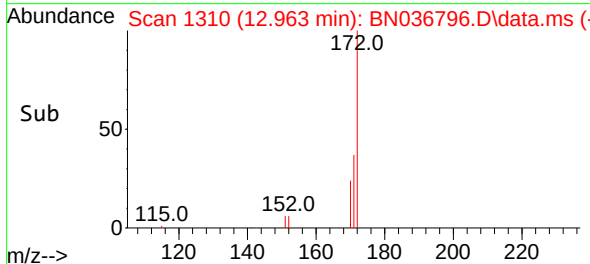
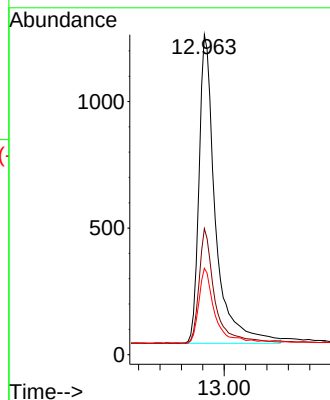
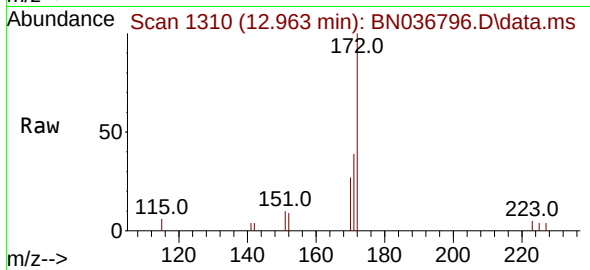




#15
2-Fluorobiphenyl
Concen: 0.264 ng
RT: 12.963 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036796.D
Acq: 29 Mar 2025 05:43

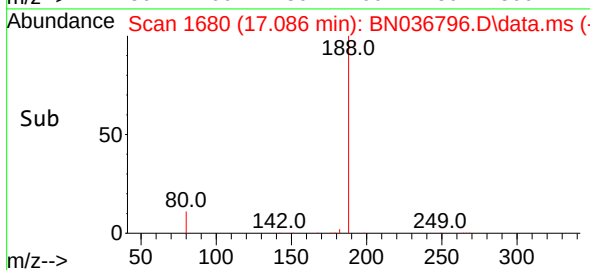
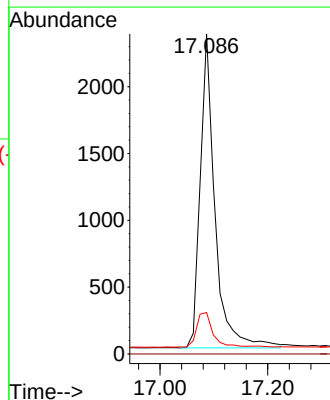
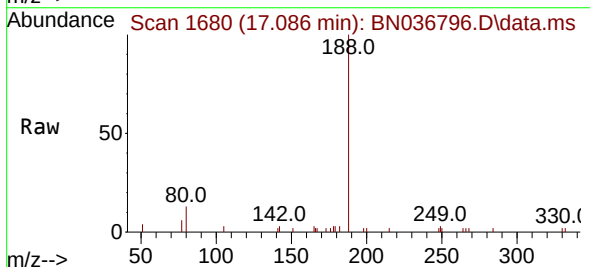
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250320

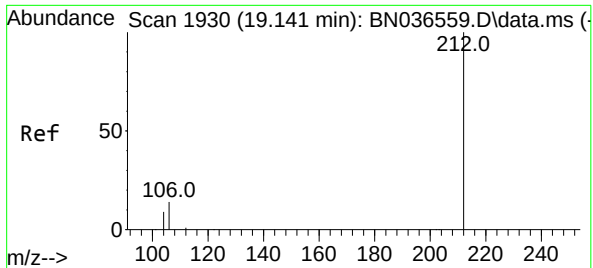
Tgt Ion	Ratio	Lower	Upper
172	100		
171	39.4	29.5	44.3
170	27.0	20.2	30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036796.D
Acq: 29 Mar 2025 05:43

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.9	8.8	13.2





#27

Fluoranthene-d10

Concen: 0.393 ng

RT: 19.118 min Scan# 19

Delta R.T. -0.023 min

Lab File: BN036796.D

Acq: 29 Mar 2025 05:43

Instrument :

BNA_N

ClientSampleId :

RW7-SP302-20250320

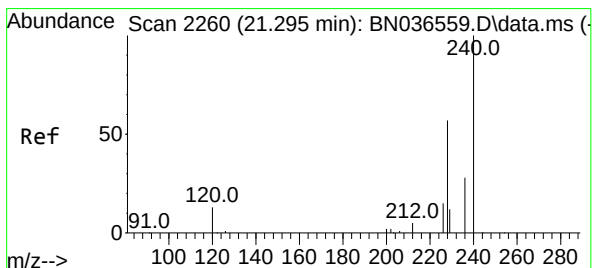
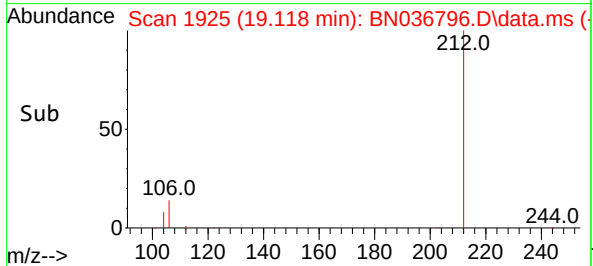
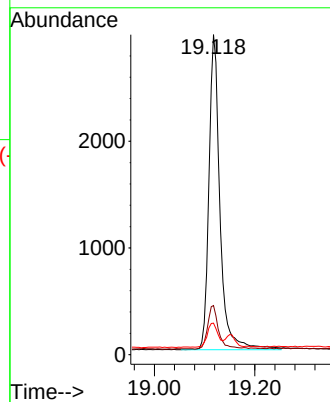
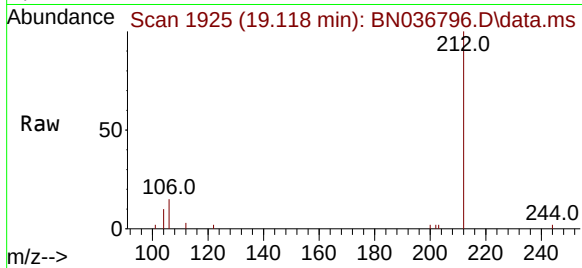
Tgt Ion:212 Resp: 4505

Ion Ratio Lower Upper

212 100

106 13.7 11.8 17.6

104 7.5 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 2258

Delta R.T. -0.018 min

Lab File: BN036796.D

Acq: 29 Mar 2025 05:43

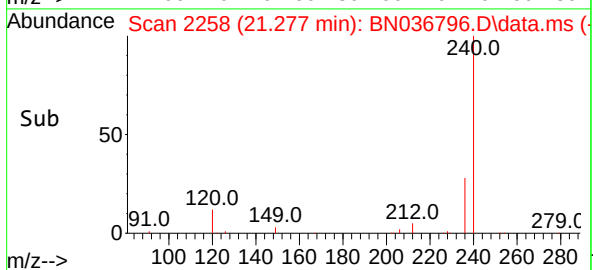
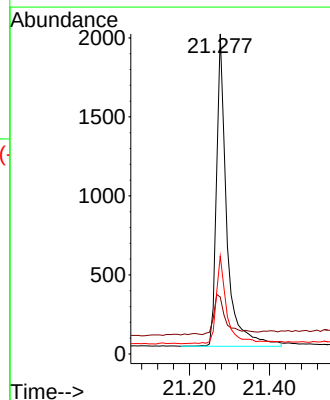
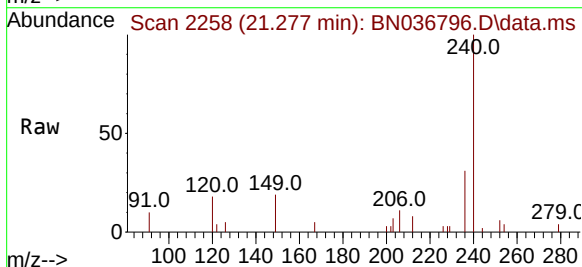
Tgt Ion:240 Resp: 3538

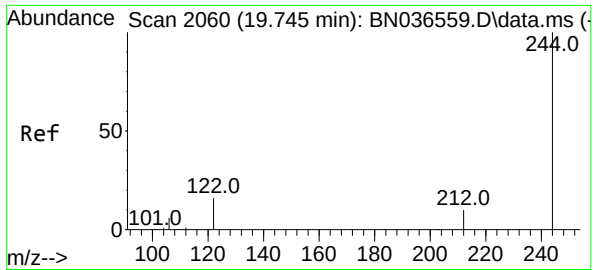
Ion Ratio Lower Upper

240 100

120 17.8 14.6 22.0

236 30.6 24.1 36.1

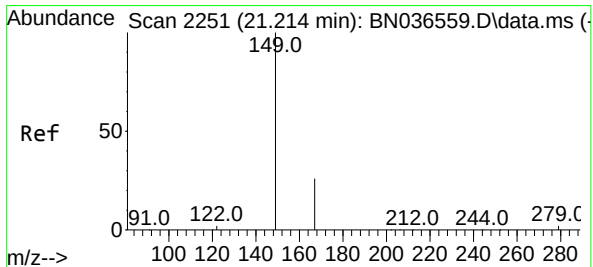
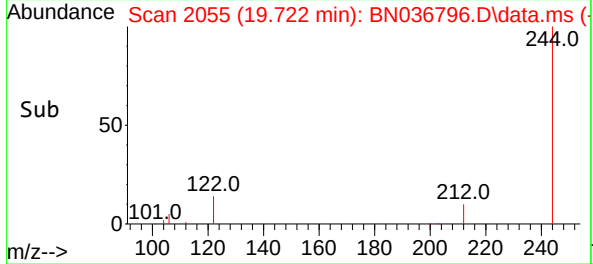
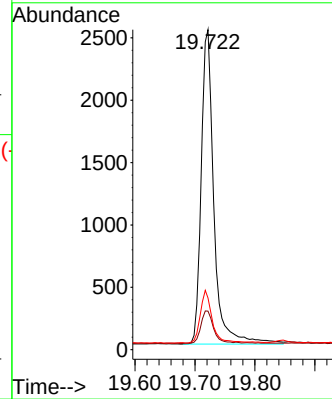
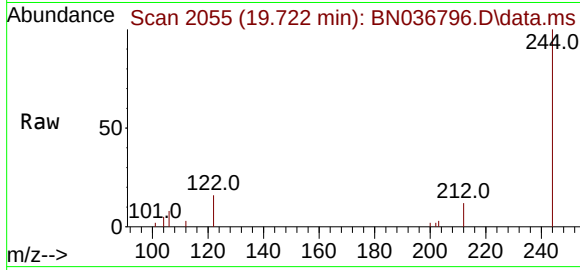




#31
Terphenyl-d14
Concen: 0.437 ng
RT: 19.722 min Scan# 2060
Delta R.T. -0.023 min
Lab File: BN036796.D
Acq: 29 Mar 2025 05:43

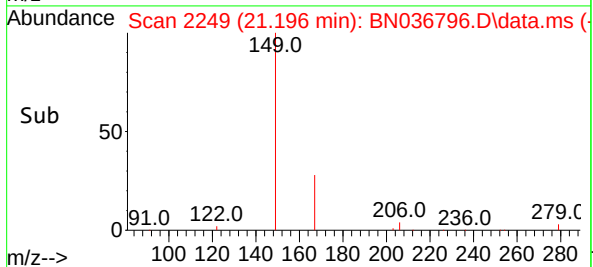
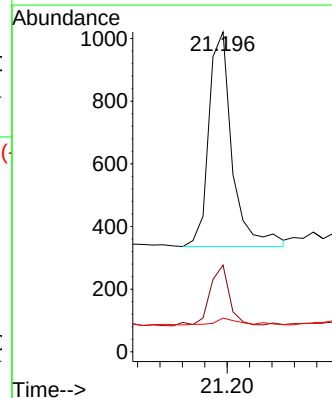
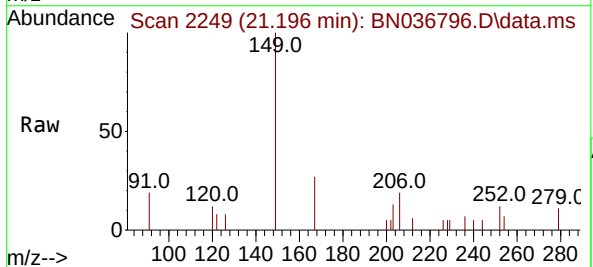
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250320

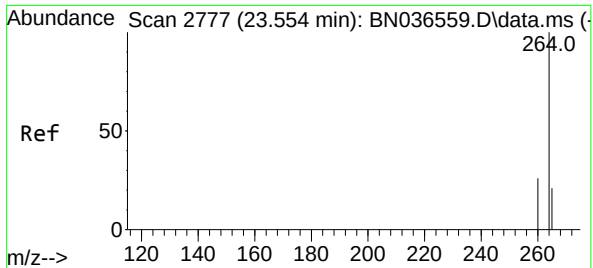
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	16.1	13.9	20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.113 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036796.D
Acq: 29 Mar 2025 05:43

Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.2	20.7	31.1
279	3.5	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.519 min Scan# 21

Delta R.T. -0.035 min

Lab File: BN036796.D

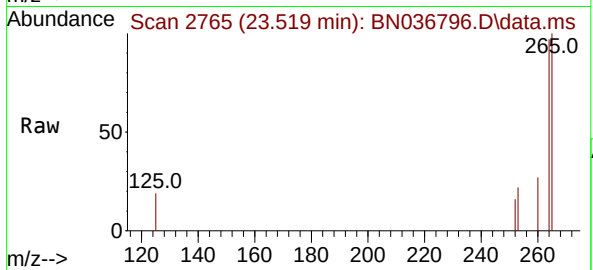
Acq: 29 Mar 2025 05:43

Instrument :

BNA_N

ClientSampleId :

RW7-SP302-20250320



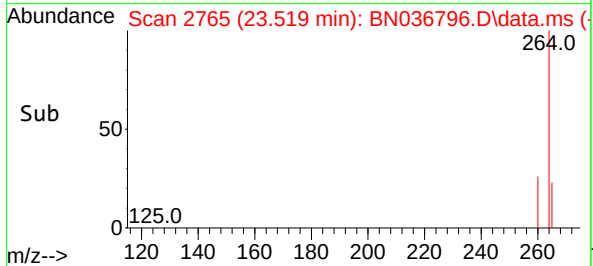
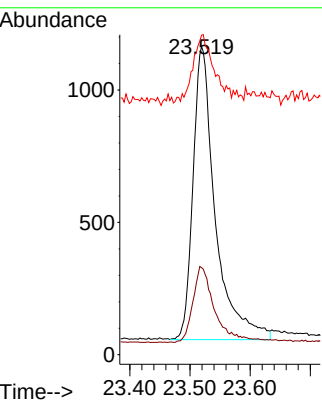
Tgt Ion:264 Resp: 2845

Ion	Ratio	Lower	Upper

264	100		

260	28.2	22.6	33.8

265	103.6	88.1	132.1



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	03/20/25
Project:	NWIRP Bethpage - RW7B CTO WE13 112G08005	Date Received:	03/21/25
Client Sample ID:	RW7-SP303-20250320	SDG No.:	Q1620
Lab Sample ID:	Q1620-04	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
BN036793.D	1	03/24/25 08:15	03/29/25 03:56	PB167269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		74%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.64	*	58 - 132		160%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1390		7.703			
1146-65-2	Naphthalene-d8	3240		10.488			
15067-26-2	Acenaphthene-d10	2030		14.334			
1517-22-2	Phenanthrene-d10	4390		17.087			
1719-03-5	Chrysene-d12	3210		21.277			
1520-96-3	Perylene-d12	2750		23.522			

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\BN032825\
Data File : BN036793.D
Acq On : 29 Mar 2025 03:56
Operator : RC/JU
Sample : Q1620-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250320

Quant Time: Mar 29 04:29:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

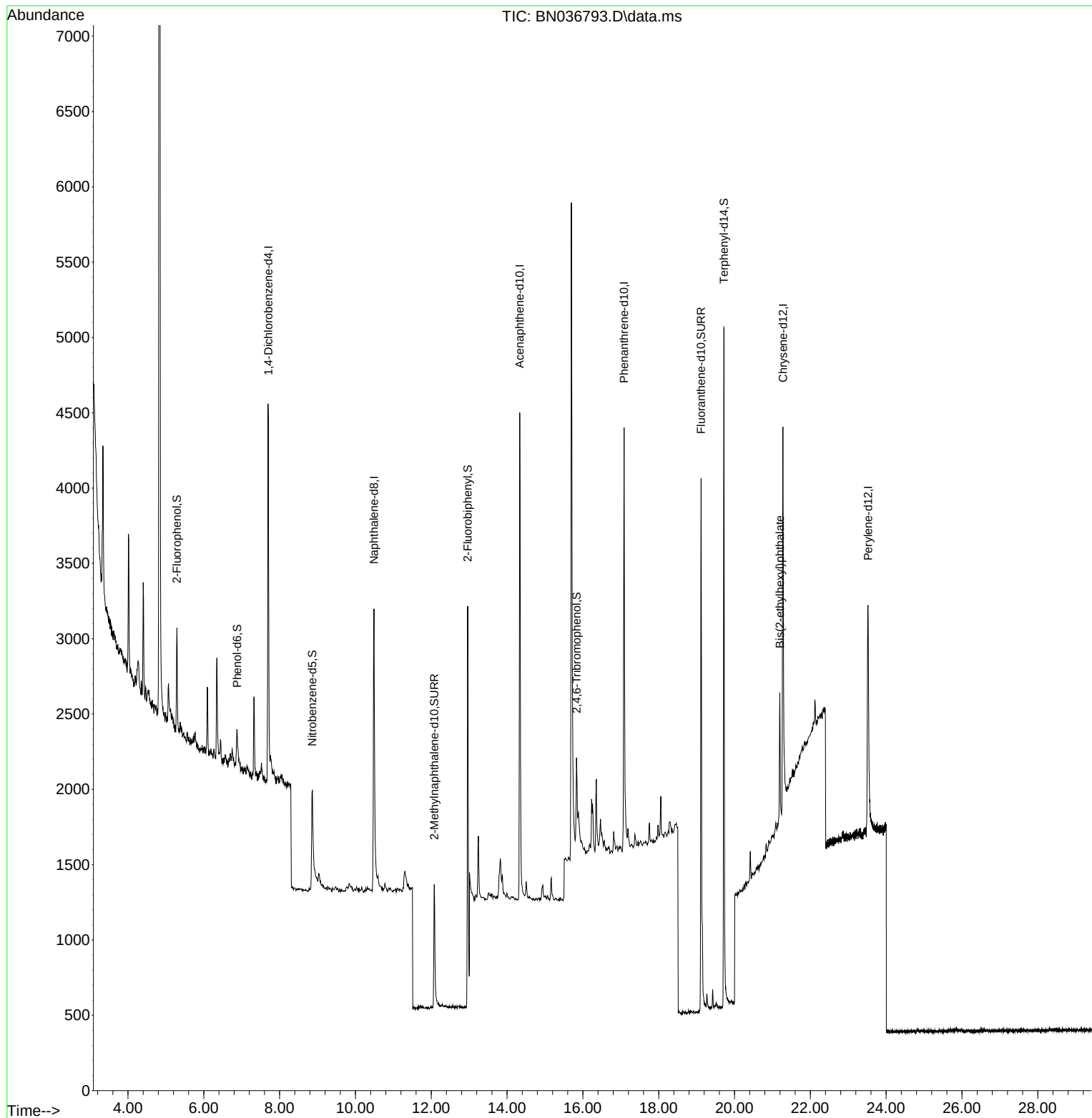
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1389	0.400	ng	-0.02
7) Naphthalene-d8	10.488	136	3240	0.400	ng	-0.02
13) Acenaphthene-d10	14.334	164	2031	0.400	ng	-0.03
19) Phenanthrene-d10	17.087	188	4392	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3210	0.400	ng	-0.02
35) Perylene-d12	23.522	264	2752	0.400	ng	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	500	0.154	ng	-0.02
5) Phenol-d6	6.879	99	309	0.077	ng	-0.02
8) Nitrobenzene-d5	8.865	82	999	0.283	ng	-0.01
11) 2-Methylnaphthalene-d10	12.081	152	1431	0.297	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	389	0.422	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	3898	0.330	ng	-0.03
27) Fluoranthene-d10	19.118	212	4398	0.391	ng	-0.02
31) Terphenyl-d14	19.722	244	4903	0.638	ng	-0.02
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.196	149	1015	0.128	ng	Qvalue # 93

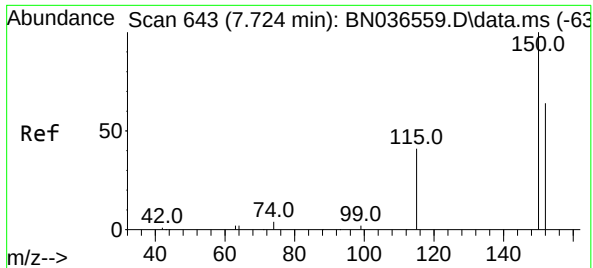
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036793.D
Acq On : 29 Mar 2025 03:56
Operator : RC/JU
Sample : Q1620-04
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250320

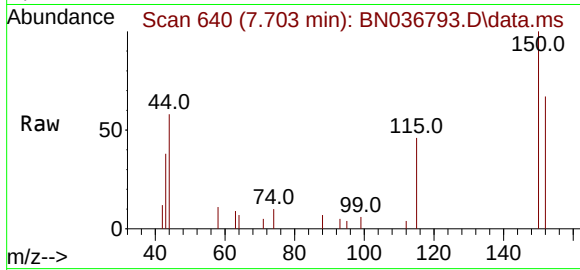
Quant Time: Mar 29 04:29:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



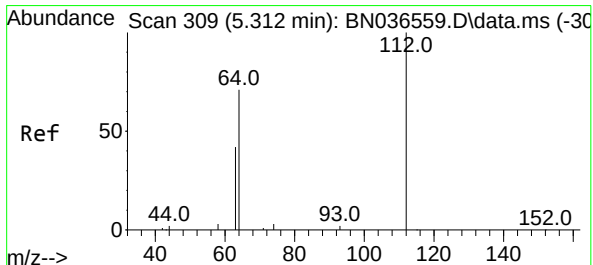
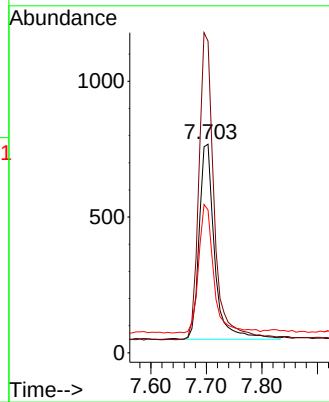
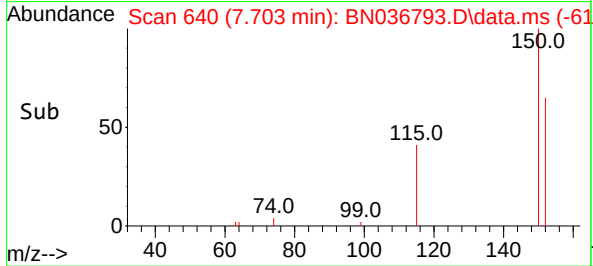


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036793.D
Acq: 29 Mar 2025 03:56

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250320

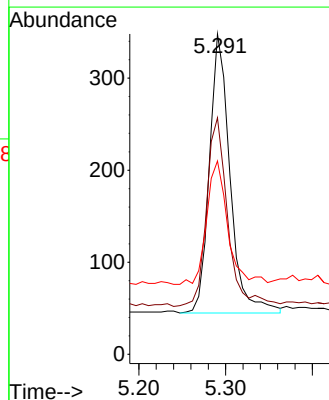
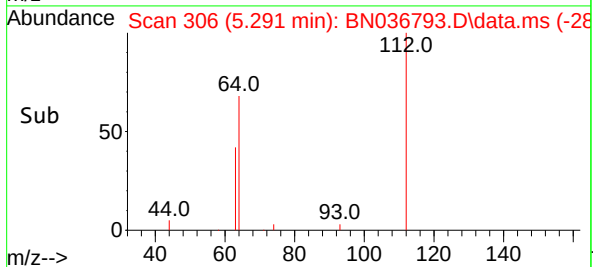
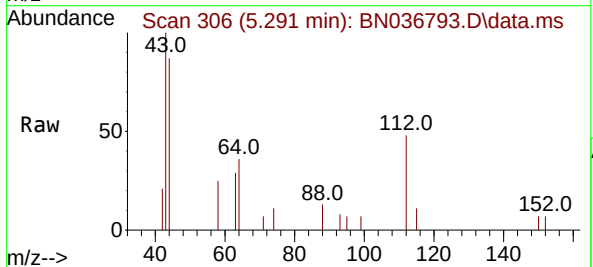


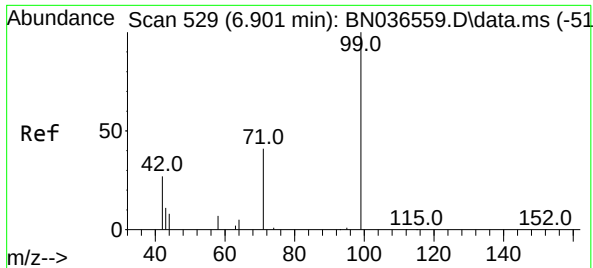
Tgt Ion:152 Resp: 1389
Ion Ratio Lower Upper
152 100
150 149.5 123.7 185.5
115 68.5 54.3 81.5



#4
2-Fluorophenol
Concen: 0.154 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036793.D
Acq: 29 Mar 2025 03:56

Tgt Ion:112 Resp: 500
Ion Ratio Lower Upper
112 100
64 69.6 53.1 79.7
63 45.0 31.8 47.8

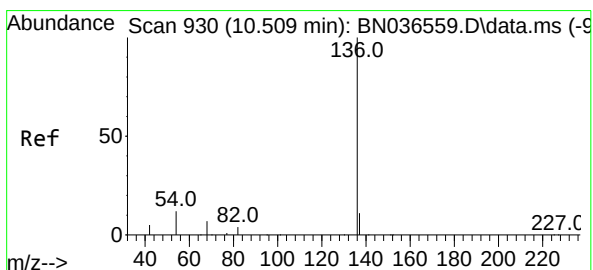
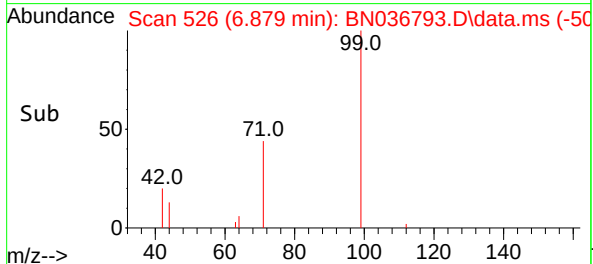
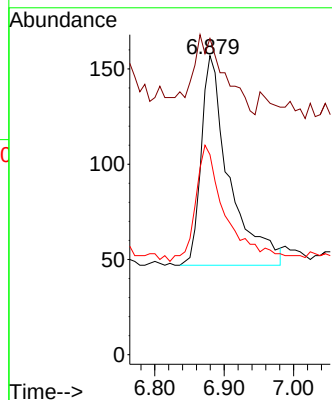
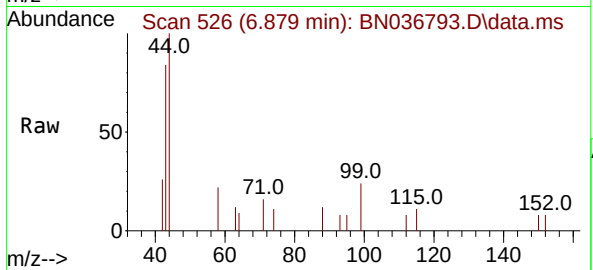




#5
Phenol-d6
Concen: 0.077 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.021 min
Lab File: BN036793.D
Acq: 29 Mar 2025 03:56

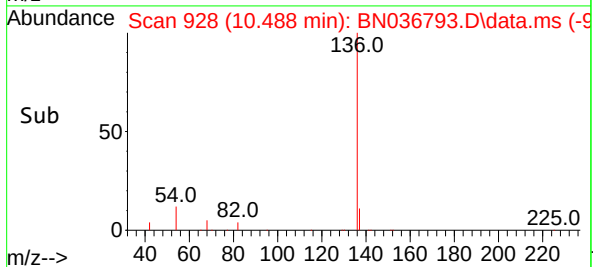
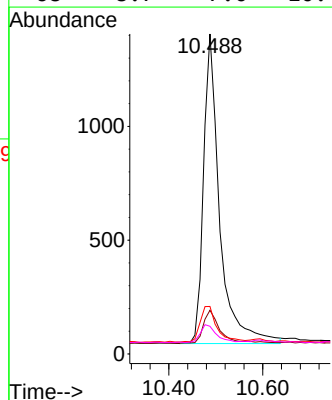
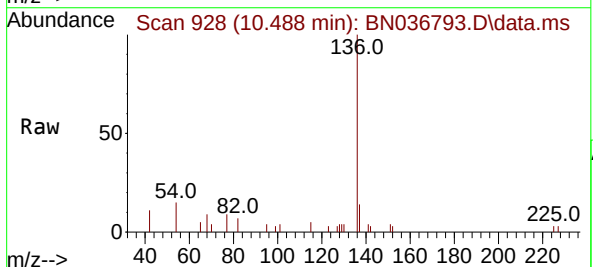
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250320

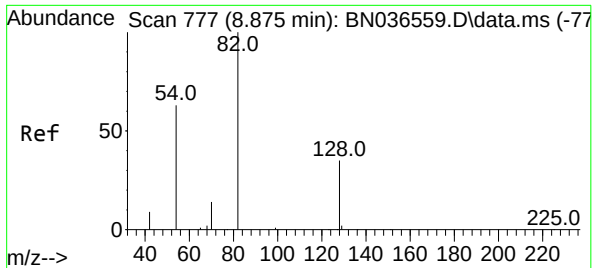
Tgt Ion: 99 Resp: 309
Ion Ratio Lower Upper
99 100
42 43.0 26.5 39.7#
71 59.9 34.1 51.1#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 928
Delta R.T. -0.021 min
Lab File: BN036793.D
Acq: 29 Mar 2025 03:56

Tgt Ion: 136 Resp: 3240
Ion Ratio Lower Upper
136 100
137 13.7 10.3 15.5
54 14.9 11.5 17.3
68 8.7 7.0 10.4

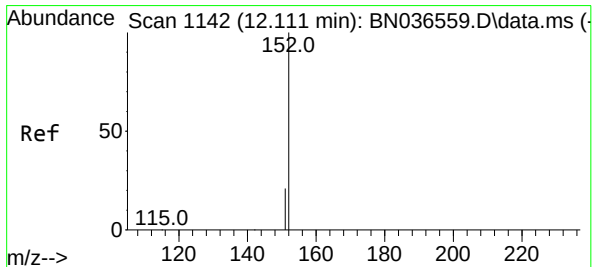
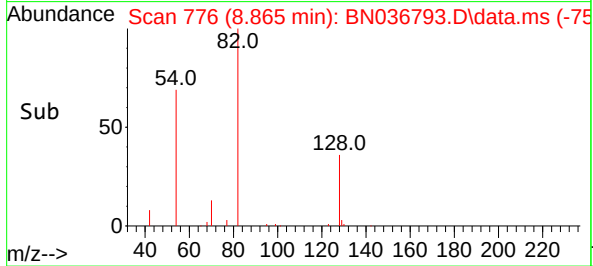
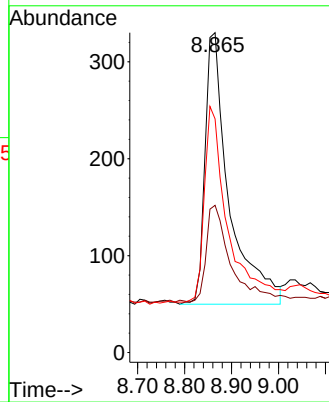
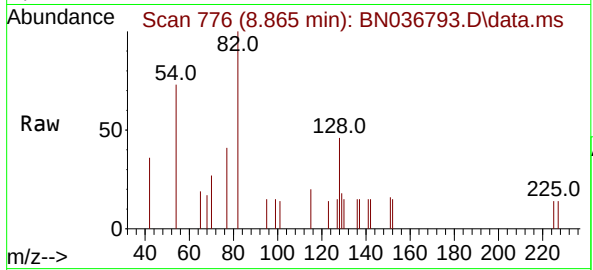




#8
Nitrobenzene-d5
Concen: 0.283 ng
RT: 8.865 min Scan# 71
Delta R.T. -0.010 min
Lab File: BN036793.D
Acq: 29 Mar 2025 03:56

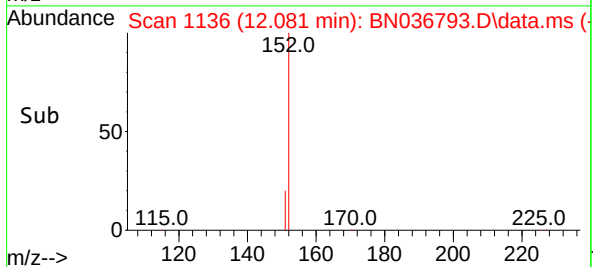
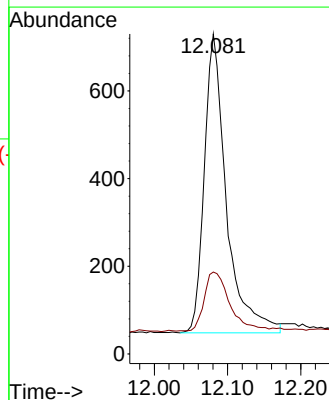
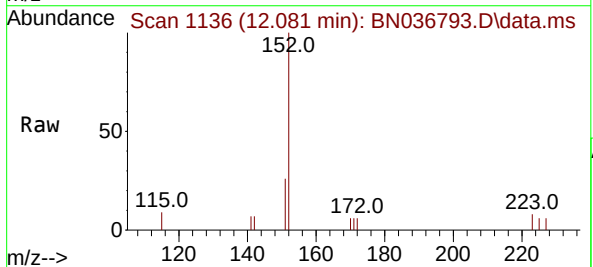
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250320

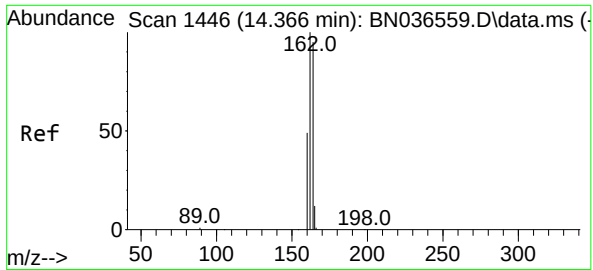
Tgt Ion: 82 Resp: 999
Ion Ratio Lower Upper
82 100
128 46.1 30.6 45.8#
54 73.0 52.2 78.4



#11
2-Methylnaphthalene-d10
Concen: 0.297 ng
RT: 12.081 min Scan# 1136
Delta R.T. -0.030 min
Lab File: BN036793.D
Acq: 29 Mar 2025 03:56

Tgt Ion: 152 Resp: 1431
Ion Ratio Lower Upper
152 100
151 22.9 17.0 25.6

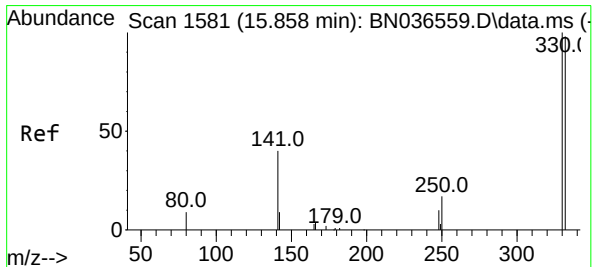
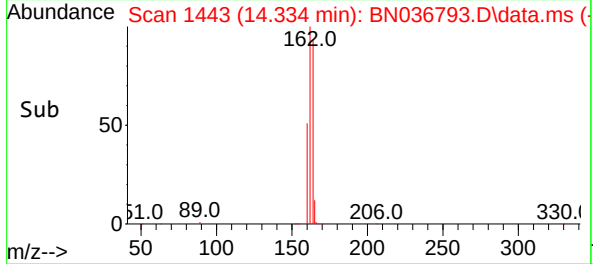
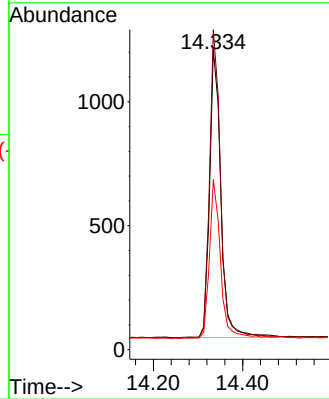
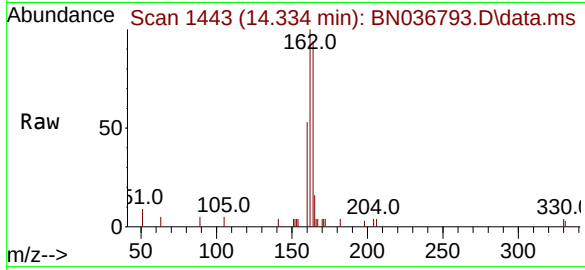




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036793.D
Acq: 29 Mar 2025 03:56

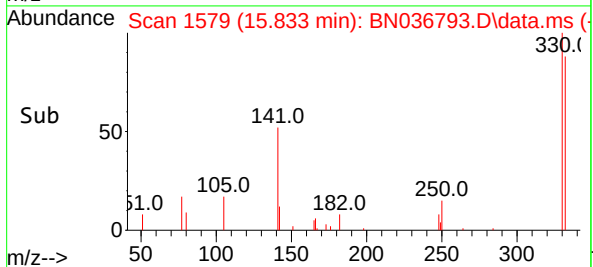
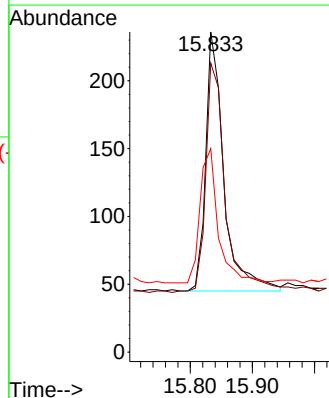
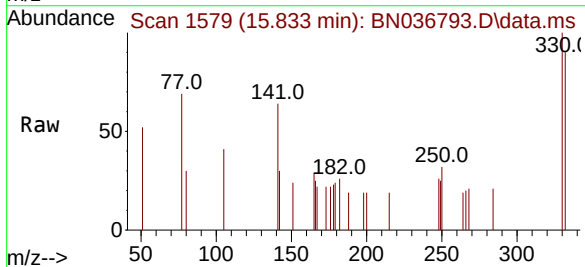
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250320

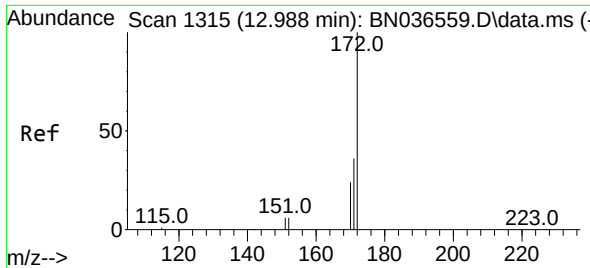
Tgt Ion:	164	Resp:	2031
Ion	Ratio	Lower	Upper
164	100		
162	106.6	84.2	126.2
160	56.6	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.422 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036793.D
Acq: 29 Mar 2025 03:56

Tgt Ion:	330	Resp:	389
Ion	Ratio	Lower	Upper
330	100		
332	97.2	75.2	112.8
141	52.2	43.4	65.2

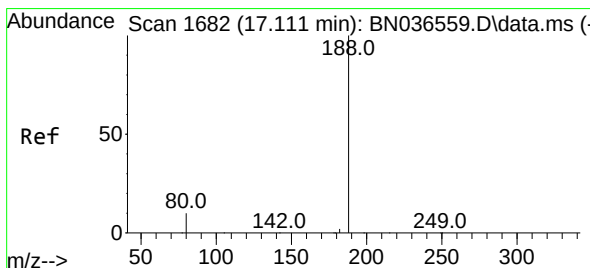
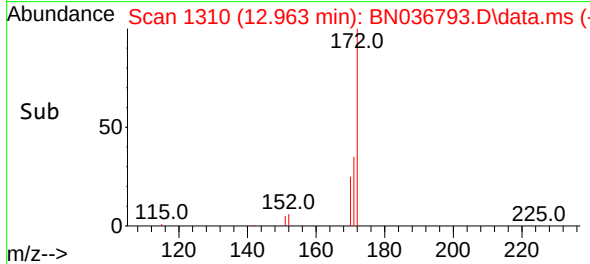
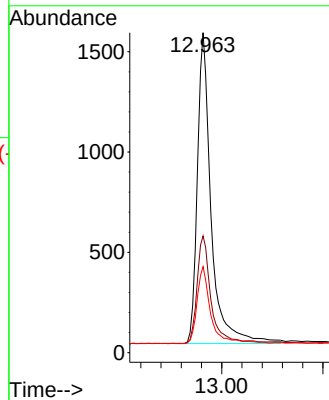
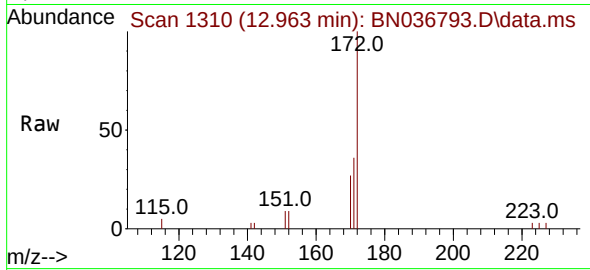




#15
2-Fluorobiphenyl
Concen: 0.330 ng
RT: 12.963 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036793.D
Acq: 29 Mar 2025 03:56

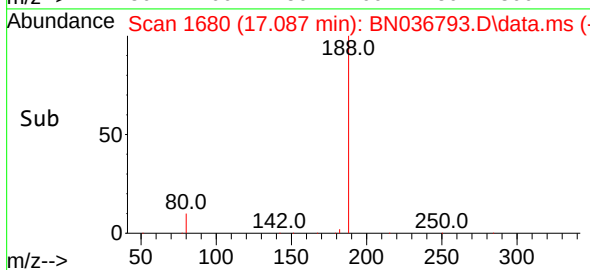
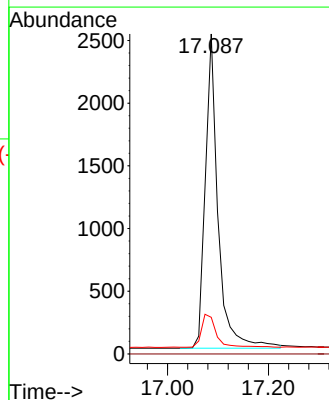
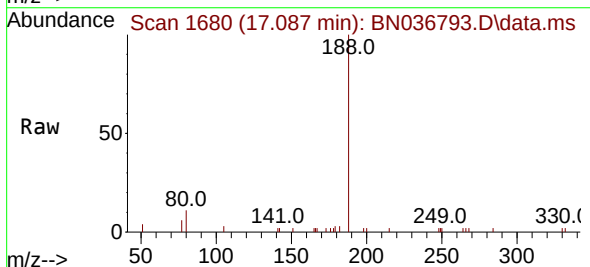
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250320

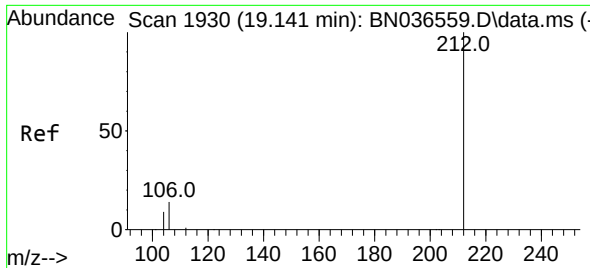
Tgt Ion:172	Resp:	3898
Ion	Ratio	Lower Upper
172	100	
171	36.5	29.5 44.3
170	26.9	20.2 30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1680
Delta R.T. -0.025 min
Lab File: BN036793.D
Acq: 29 Mar 2025 03:56

Tgt Ion:188	Resp:	4392
Ion	Ratio	Lower Upper
188	100	
94	0.0	0.0 0.0
80	11.4	8.8 13.2





#27

Fluoranthene-d10

Concen: 0.391 ng

RT: 19.118 min Scan# 19

Delta R.T. -0.023 min

Lab File: BN036793.D

Acq: 29 Mar 2025 03:56

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20250320

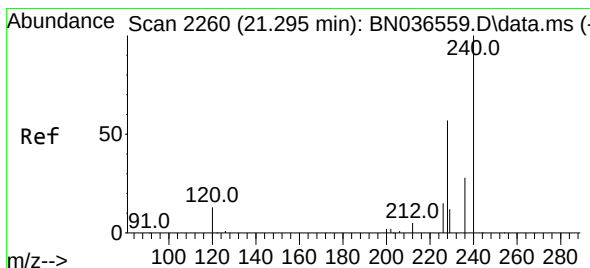
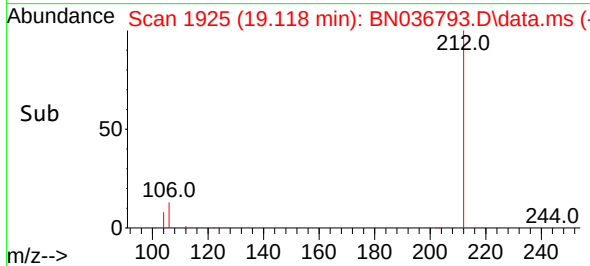
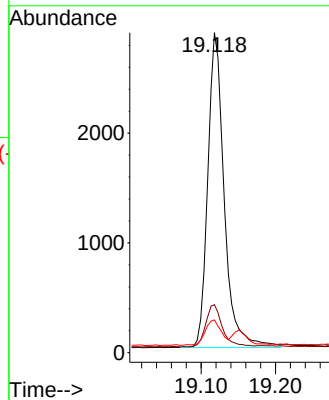
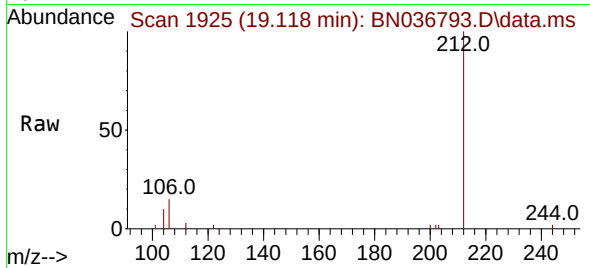
Tgt Ion:212 Resp: 4398

Ion Ratio Lower Upper

212 100

106 13.3 11.8 17.6

104 7.8 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 2258

Delta R.T. -0.018 min

Lab File: BN036793.D

Acq: 29 Mar 2025 03:56

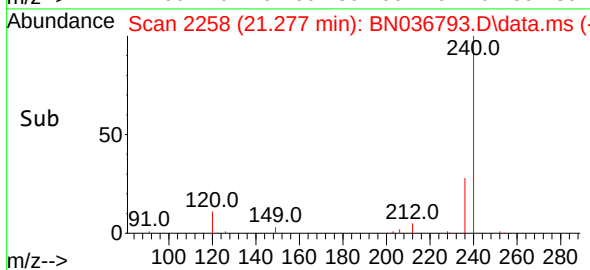
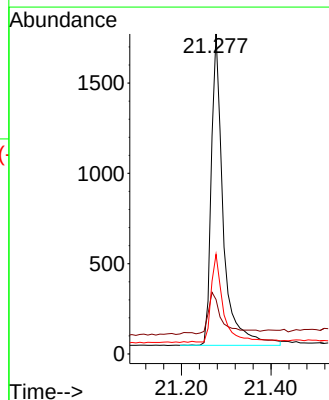
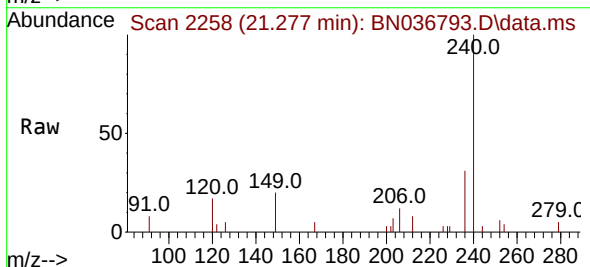
Tgt Ion:240 Resp: 3210

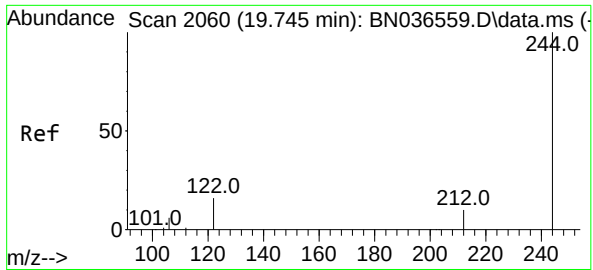
Ion Ratio Lower Upper

240 100

120 17.0 14.6 22.0

236 31.2 24.1 36.1

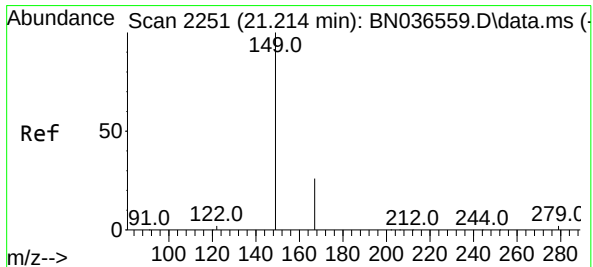
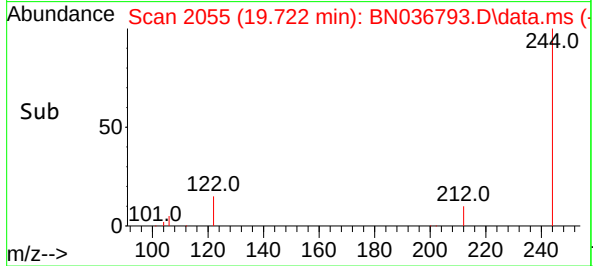
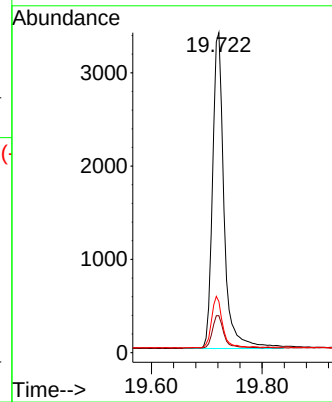
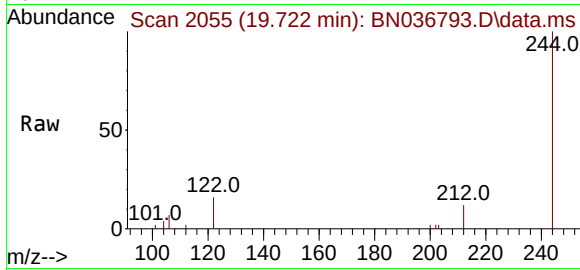




#31
Terphenyl-d14
Concen: 0.638 ng
RT: 19.722 min Scan# 2060
Delta R.T. -0.023 min
Lab File: BN036793.D
Acq: 29 Mar 2025 03:56

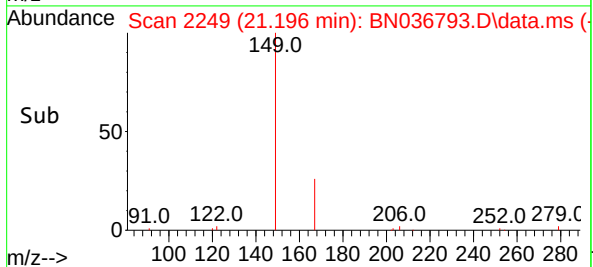
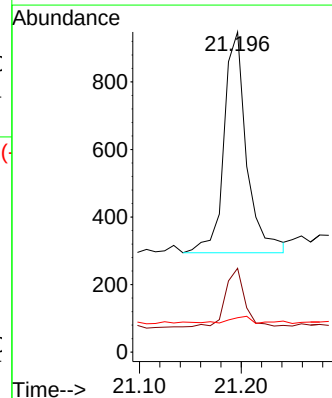
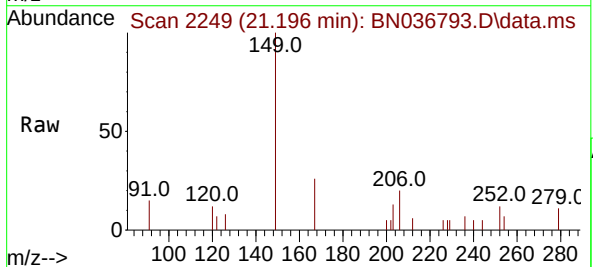
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250320

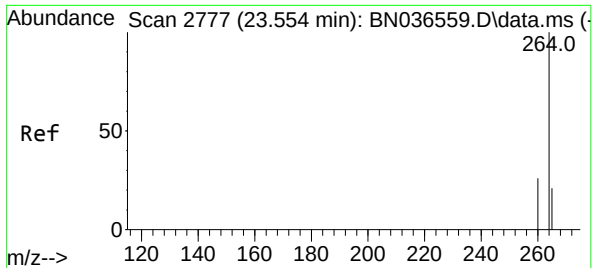
Tgt Ion:244	Resp:	4903
Ion	Ratio	Lower Upper
244	100	
212	11.5	9.6 14.4
122	16.0	13.9 20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.128 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036793.D
Acq: 29 Mar 2025 03:56

Tgt Ion:149	Resp:	1015
Ion	Ratio	Lower Upper
149	100	
167	22.5	20.7 31.1
279	2.6	3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.522 min Scan# 21

Delta R.T. -0.032 min

Lab File: BN036793.D

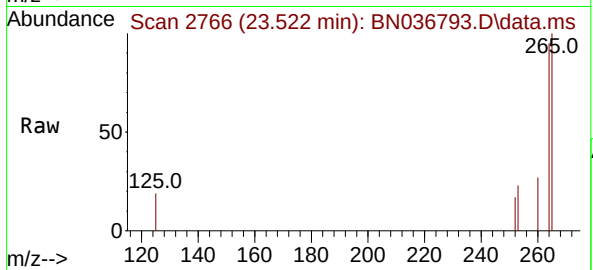
Acq: 29 Mar 2025 03:56

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20250320



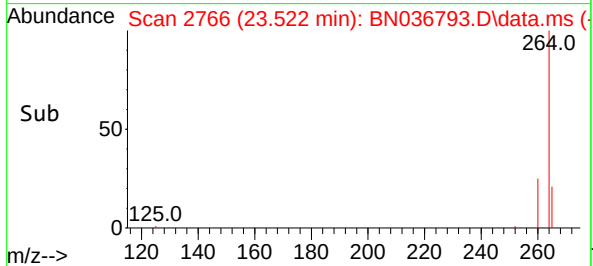
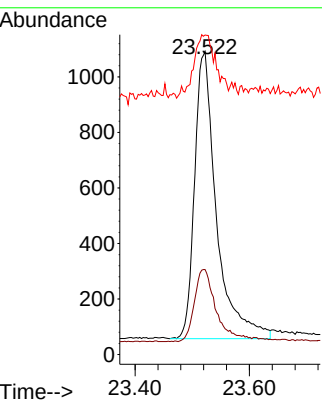
Tgt Ion:264 Resp: 2752

Ion	Ratio	Lower	Upper

264	100		

260	28.0	22.6	33.8

265	105.5	88.1	132.1





CALIBRATION SUMMARY

1
2
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Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025
Response Via : Initial Calibration

Calibration Files

0.1 =BN036557.D 0.2 =BN036558.D 0.4 =BN036559.D 0.8 =BN036560.D 1.6 =BN036561.D 3.2 =BN036562.D 5.0 =BN036563.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	0.434	0.439	0.498	0.451	0.440	0.445	0.399	0.444	6.60
3)	n-Nitrosodimet...	1.112	0.874	0.935	0.841	0.850	0.883	0.789	0.898	11.64
4) S	2-Fluorophenol	0.931	0.908	0.987	0.878	0.914	0.996	0.911	0.932	4.67
5) S	Phenol-d6	1.243	1.057	1.128	1.067	1.133	1.254	1.180	1.152	6.79
6)	bis(2-Chloroet...	1.426	1.150	1.183	1.129	1.132	1.210	1.104	1.190	9.22
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.572	0.396	0.415	0.401	0.402	0.450	0.411	0.435	14.47
9)	Naphthalene	1.371	1.125	1.206	1.111	1.108	1.222	1.094	1.177	8.45
10)	Hexachlorobuta...	0.296	0.283	0.294	0.267	0.261	0.286	0.251	0.277	6.24
11) SURR2	Methylnaphth...	0.656	0.549	0.606	0.562	0.577	0.633	0.581	0.595	6.55
12)	2-Methylnaphth...	0.810	0.696	0.765	0.703	0.734	0.802	0.731	0.749	6.03
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.181	0.160	0.187	0.169	0.188	0.197	0.188	0.182	7.04
15) S	2-Fluorobiphenyl	2.208	1.982	2.398	2.350	2.364	2.566	2.419	2.327	7.96
16)	Acenaphthylene	1.882	1.756	1.938	1.794	1.834	2.074	1.935	1.888	5.66
17)	Acenaphthene	1.257	1.159	1.281	1.171	1.199	1.339	1.243	1.236	5.17
18)	Fluorene	1.629	1.600	1.764	1.609	1.670	1.778	1.650	1.672	4.32
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.057	0.077	0.075	0.088	0.110	0.111	0.086		24.66
21)	4-Bromophenyl-...	0.243	0.227	0.274	0.238	0.241	0.278	0.253	0.251	7.53
22)	Hexachlorobenzene	0.306	0.288	0.336	0.295	0.283	0.322	0.289	0.303	6.58
23)	Atrazine	0.193	0.191	0.213	0.192	0.200	0.216	0.200	0.201	5.08
24)	Pentachlorophenol	0.140	0.116	0.137	0.122	0.135	0.161	0.155	0.138	11.76
25)	Phenanthrene	1.190	1.111	1.297	1.141	1.165	1.300	1.195	1.200	6.09
26)	Anthracene	1.026	0.971	1.147	1.033	1.075	1.215	1.112	1.083	7.60
27) SURR	Fluoranthene-d10	1.037	0.955	1.116	0.956	1.025	1.087	1.000	1.025	5.98
28)	Fluoranthene	1.341	1.243	1.452	1.272	1.364	1.447	1.316	1.348	5.95
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.945	2.005	2.131	1.910	1.870	1.992	1.837	1.956	5.04
31) S	Terphenyl-d14	0.962	0.965	1.028	0.924	0.915	0.987	0.926	0.958	4.23
32)	Benzo(a)anthra...	1.389	1.315	1.437	1.304	1.347	1.528	1.415	1.391	5.63
33)	Chrysene	1.486	1.509	1.610	1.507	1.462	1.616	1.448	1.520	4.44
34)	Bis(2-ethylhex...	1.196	1.100	1.044	0.865	0.946	0.912	0.870	0.990	12.74
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN031025.M

36)	Indeno(1,2,3-c...	1.160	1.316	1.546	1.404	1.417	1.693	1.571	1.444	12.27
37)	Benzo(b)fluora...	1.311	1.360	1.547	1.402	1.477	1.595	1.498	1.456	7.04
38)	Benzo(k)fluora...	1.504	1.397	1.620	1.481	1.521	1.635	1.534	1.527	5.34
39) C	Benzo(a)pyrene	1.090	1.152	1.303	1.195	1.223	1.350	1.268	1.226	7.29
40)	Dibenzo(a,h)an...	0.893	0.981	1.163	1.126	1.102	1.351	1.252	1.124	13.76
41)	Benzo(g,h,i)pe...	1.138	1.213	1.382	1.250	1.233	1.449	1.334	1.286	8.36

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036557.D
 Acq On : 10 Mar 2025 11:42
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025

Quant Time: Mar 10 16:00:30 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Mar 10 15:54:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2755	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6575	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3958	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	8269	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5886	0.400	ng	0.00
35) Perylene-d12	23.554	264	5207	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	641	0.100	ng	0.00
5) Phenol-d6	6.901	99	856	0.108	ng	0.00
8) Nitrobenzene-d5	8.875	82	940	0.131	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	1079	0.110	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	179	0.100	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	2185	0.095	ng	0.00
27) Fluoranthene-d10	19.141	212	2144	0.101	ng	0.00
31) Terphenyl-d14	19.745	244	1416	0.100	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	299m	0.098	ng	
3) n-Nitrosodimethylamine	3.557	42	766	0.124	ng	# 95
6) bis(2-Chloroethyl)ether	7.154	93	982	0.120	ng	98
9) Naphthalene	10.562	128	2254	0.117	ng	# 94
10) Hexachlorobutadiene	10.850	225	486	0.107	ng	# 100
12) 2-Methylnaphthalene	12.187	142	1331	0.108	ng	96
16) Acenaphthylene	14.078	152	1862	0.100	ng	99
17) Acenaphthene	14.430	154	1244	0.102	ng	99
18) Fluorene	15.414	166	1612	0.097	ng	99
21) 4-Bromophenyl-phenylether	16.304	248	502	0.097	ng	95
22) Hexachlorobenzene	16.416	284	632	0.101	ng	98
23) Atrazine	16.578	200	400	0.096	ng	# 90
24) Pentachlorophenol	16.776	266	290	0.102	ng	98
25) Phenanthrene	17.148	178	2459	0.099	ng	99
26) Anthracene	17.248	178	2121	0.095	ng	100
28) Fluoranthene	19.174	202	2772	0.099	ng	97
30) Pyrene	19.536	202	2862	0.099	ng	100
32) Benzo(a)anthracene	21.286	228	2044	0.100	ng	94
33) Chrysene	21.331	228	2187	0.098	ng	93
34) Bis(2-ethylhexyl)phtha...	21.214	149	1760	0.121	ng	96
36) Indeno(1,2,3-cd)pyrene	25.841	276	1510	0.080	ng	98
37) Benzo(b)fluoranthene	22.876	252	1707	0.090	ng	# 62
38) Benzo(k)fluoranthene	22.923	252	1958	0.098	ng	# 62
39) Benzo(a)pyrene	23.458	252	1419	0.089	ng	# 51
40) Dibenzo(a,h)anthracene	25.861	278	1163	0.079	ng	# 59
41) Benzo(g,h,i)perylene	26.539	276	1482	0.089	ng	# 84

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

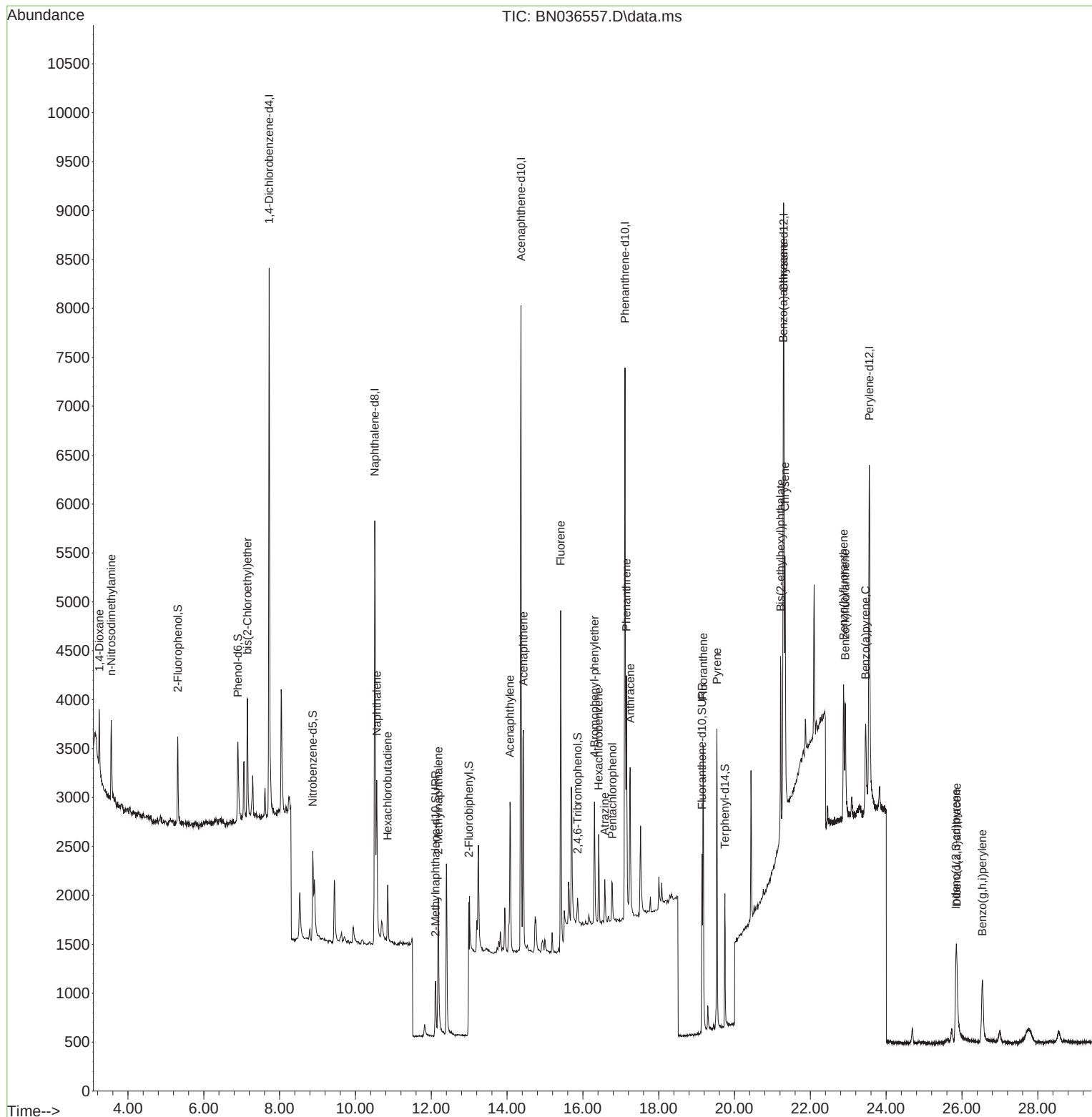
Manual Integrations

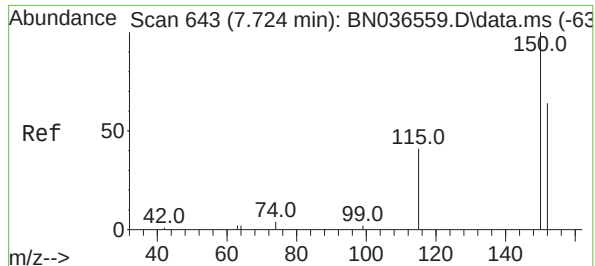
APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025

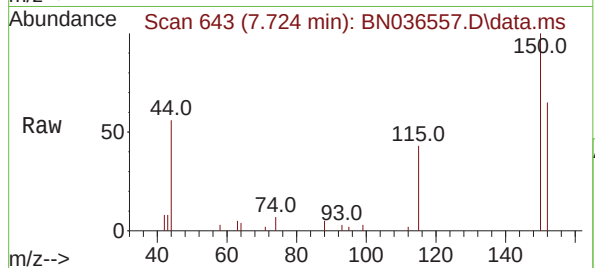
Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

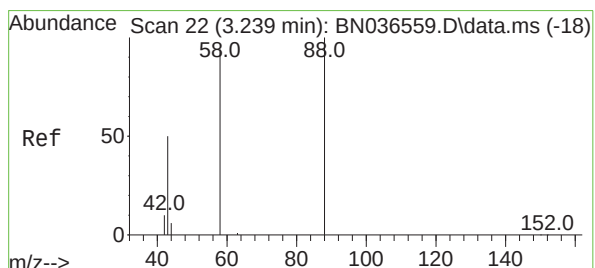
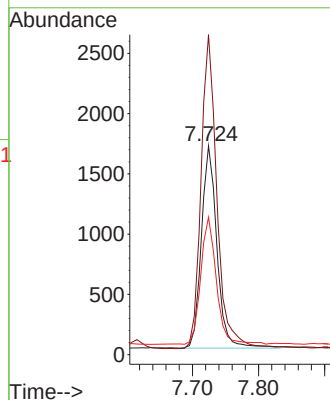
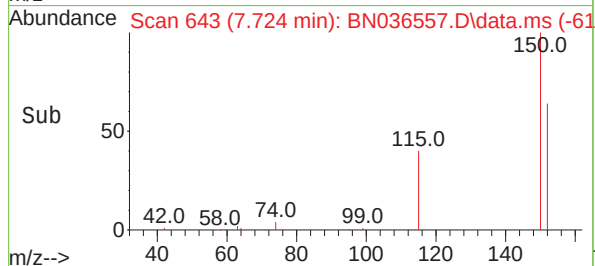
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 275
Ion Ratio Lower Upper
152 100
150 153.3 123.7 185.5
115 65.8 54.3 81.5

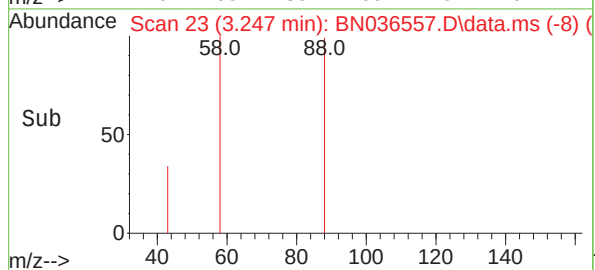
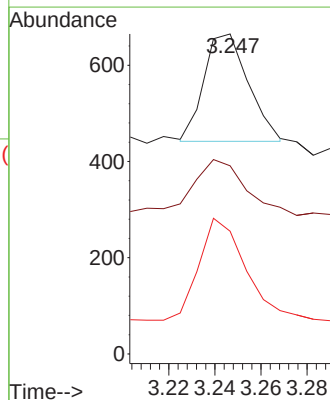
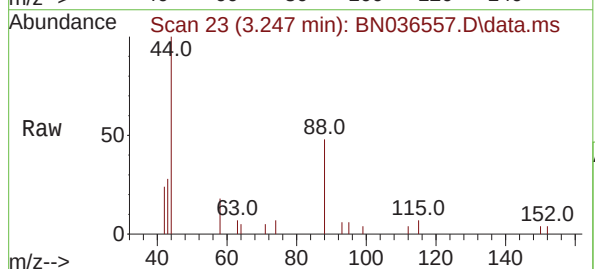
Manual Integrations
APPROVED

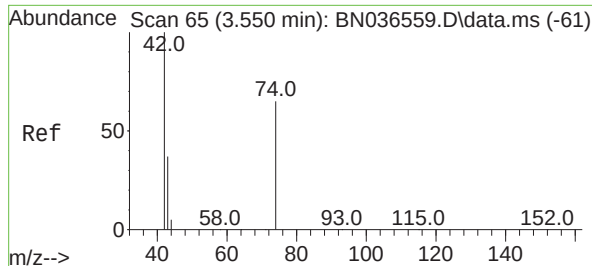
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#2
1,4-Dioxane
Concen: 0.098 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 88 Resp: 299
Ion Ratio Lower Upper
88 100
43 94.6 37.8 56.8#
58 102.3 67.4 101.2#





#3

n-Nitrosodimethylamine

Concen: 0.124 ng

RT: 3.557 min Scan# 6

Delta R.T. 0.007 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion: 42 Resp: 760

Ion Ratio Lower Upper

42 100

74 73.0 60.6 90.8

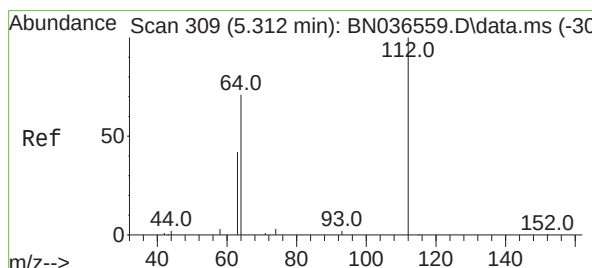
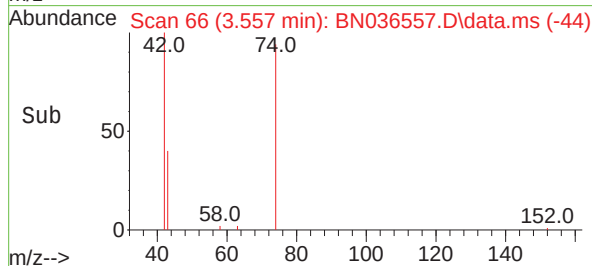
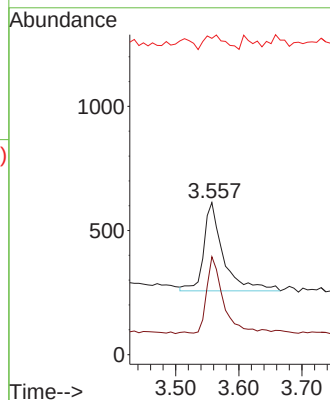
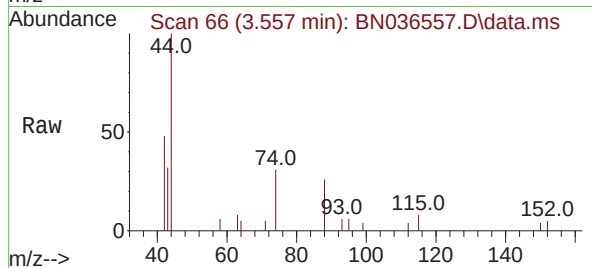
44 16.6 6.3 9.5

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#4

2-Fluorophenol

Concen: 0.100 ng

RT: 5.312 min Scan# 309

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

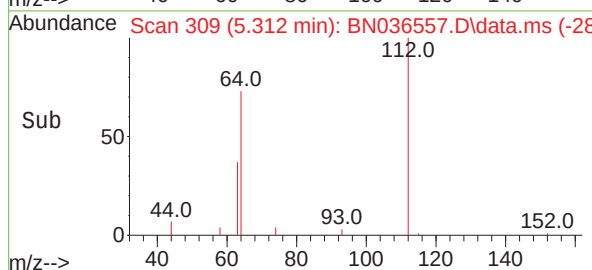
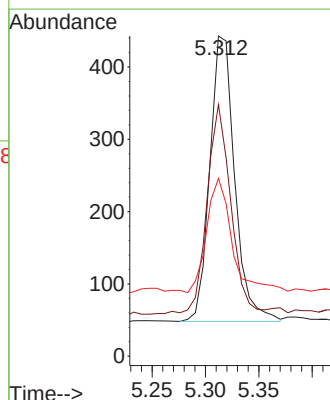
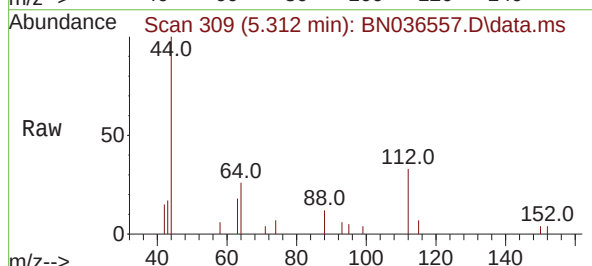
Tgt Ion:112 Resp: 641

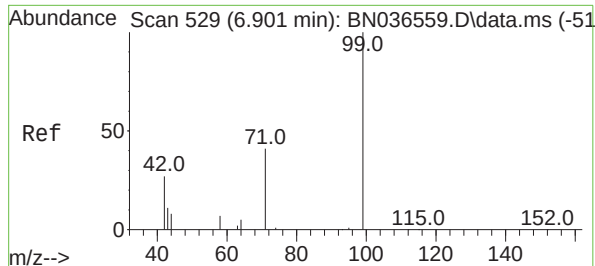
Ion Ratio Lower Upper

112 100

64 70.4 53.1 79.7

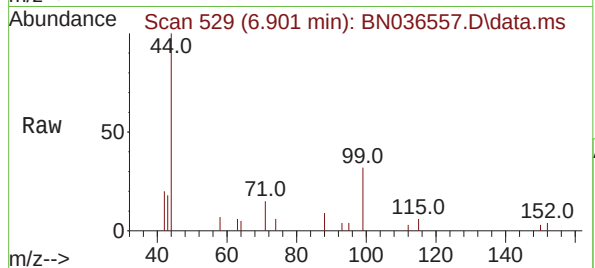
63 40.9 31.8 47.8





#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

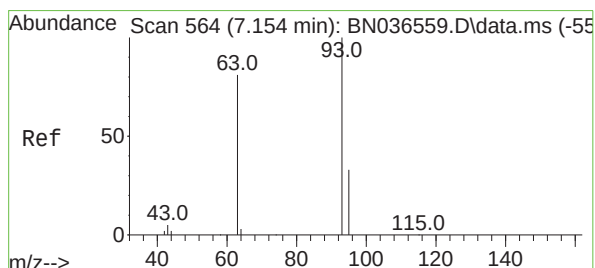
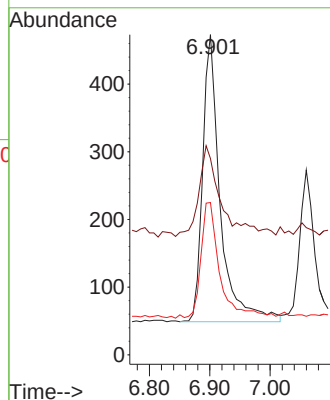
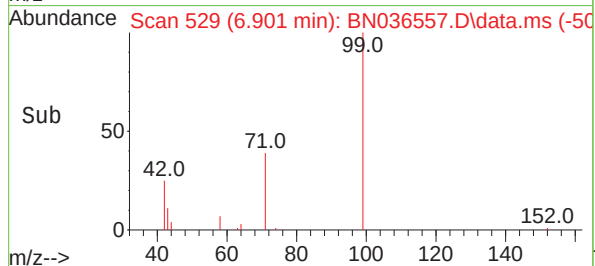
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 99 Resp: 850
Ion Ratio Lower Upper
99 100
42 39.8 26.5 39.7
71 42.8 34.1 51.1

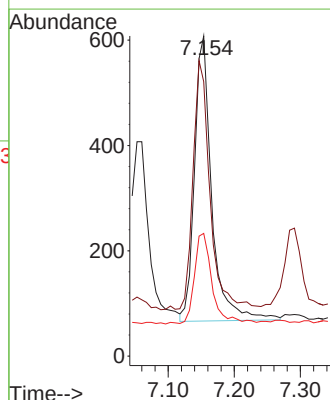
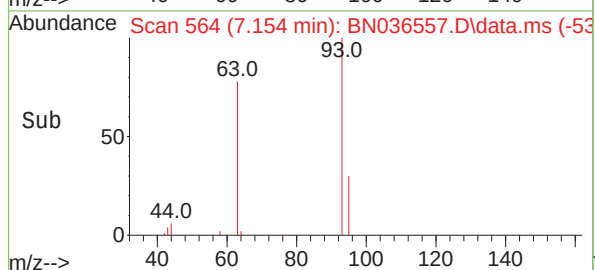
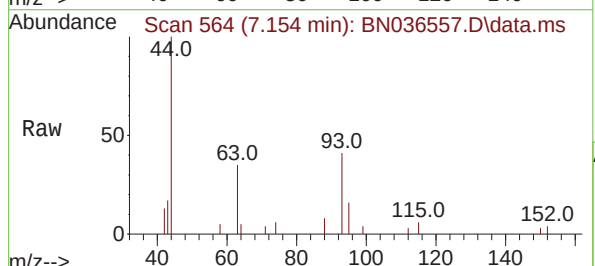
Manual Integrations
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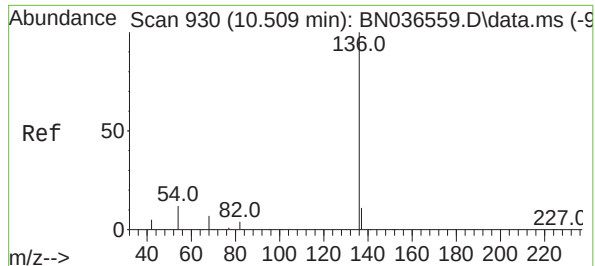
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

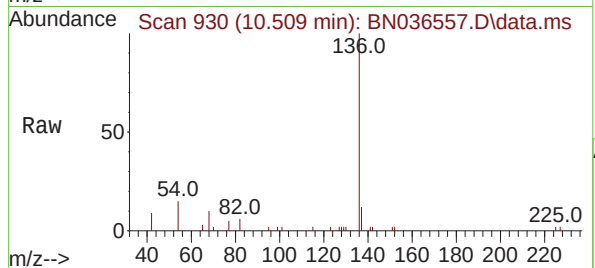
Tgt Ion: 93 Resp: 982
Ion Ratio Lower Upper
93 100
63 86.7 67.7 101.5
95 33.0 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

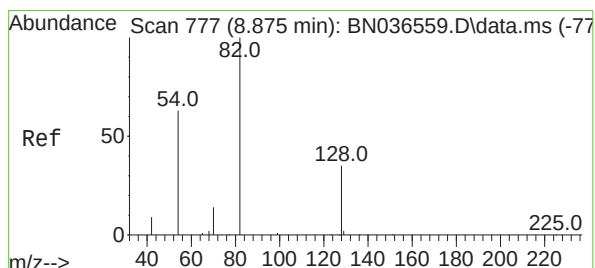
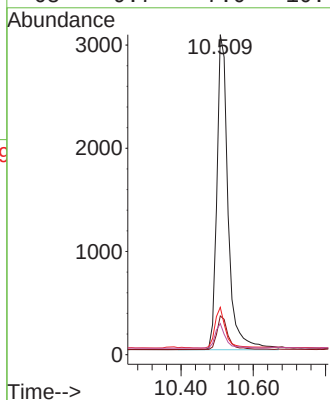
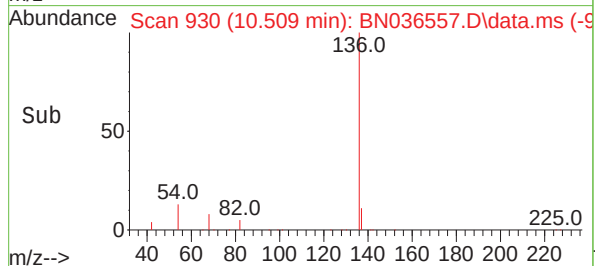
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 136 Resp: 6574
Ion Ratio Lower Upper
136 100
137 12.1 10.3 15.5
54 14.8 11.5 17.3
68 9.7 7.0 10.4

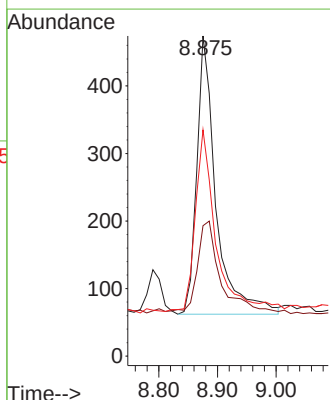
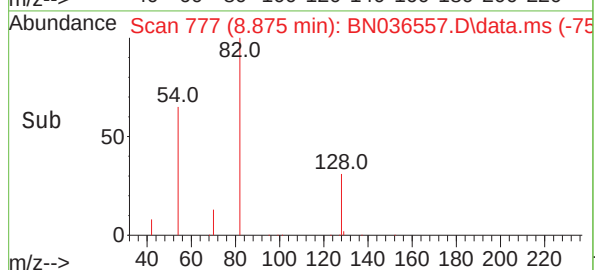
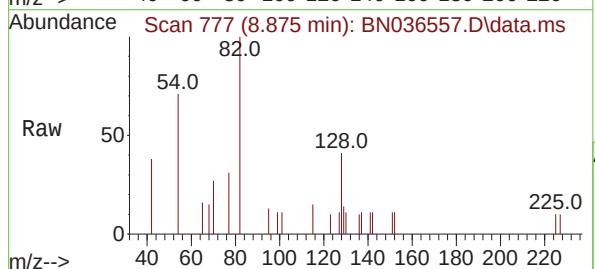
Manual Integrations
APPROVED

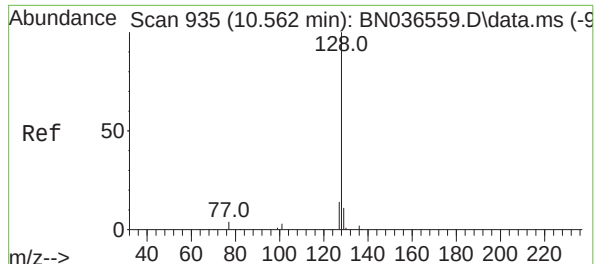
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#8
Nitrobenzene-d5
Concen: 0.131 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 82 Resp: 940
Ion Ratio Lower Upper
82 100
128 40.7 30.6 45.8
54 70.7 52.2 78.4





#9

Naphthalene

Concen: 0.117 ng

RT: 10.562 min Scan# 935

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

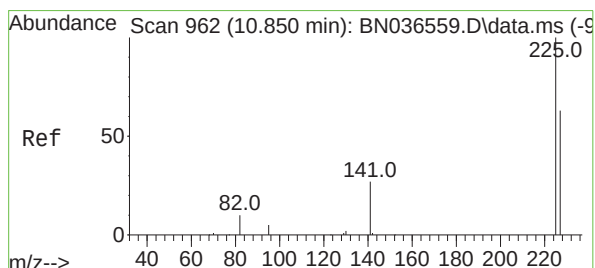
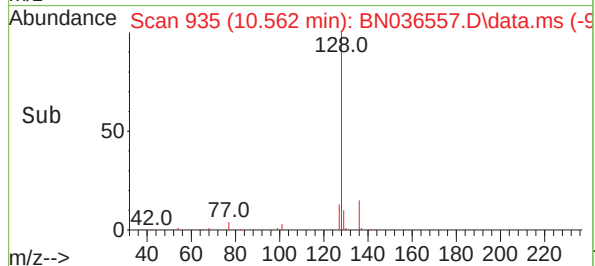
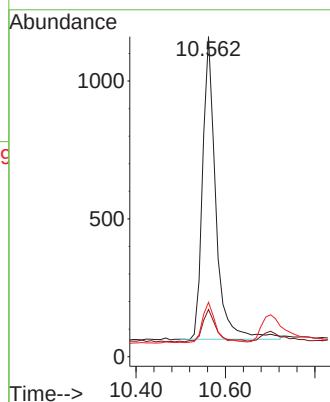
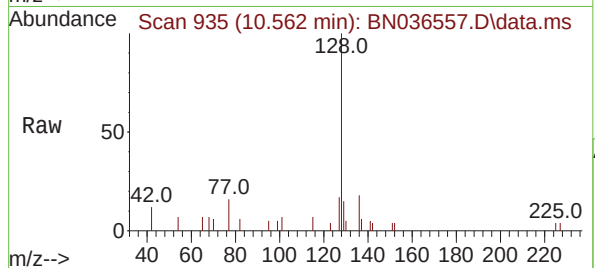
ClientSampleId :

SSTDICC0.1

Tgt Ion:	128	Resp:	225
Ion Ratio	Lower	Upper	
128	100		
129	14.7	9.8	14.6
127	17.0	11.8	17.8

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#10

Hexachlorobutadiene

Concen: 0.107 ng

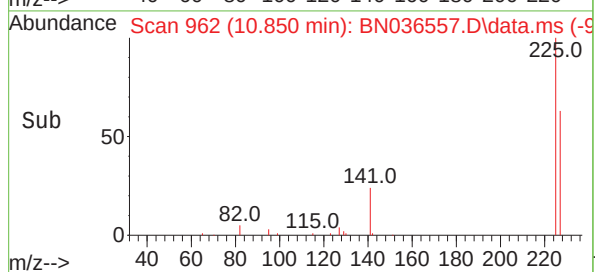
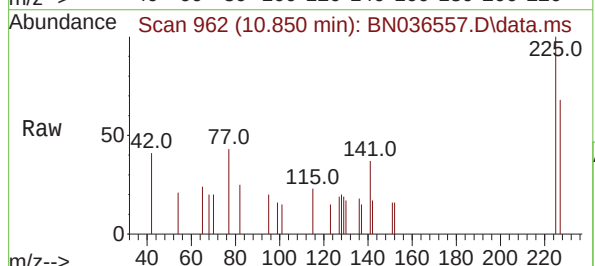
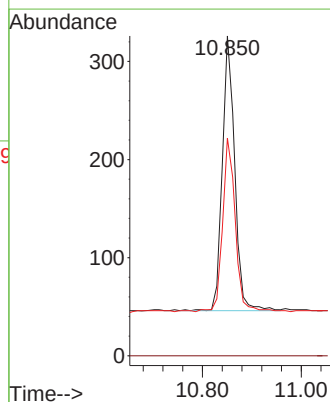
RT: 10.850 min Scan# 962

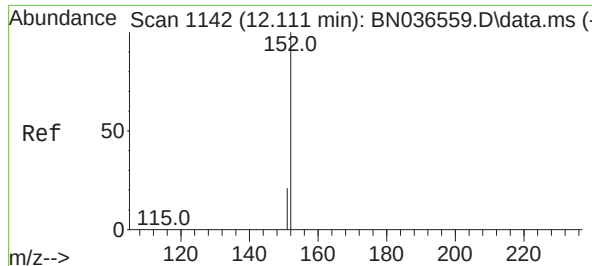
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

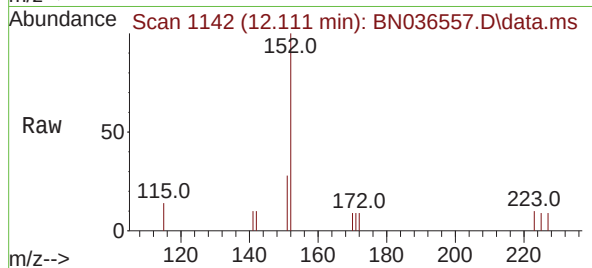
Tgt Ion:	225	Resp:	486
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	64.8	51.8	77.8





#11
2-Methylnaphthalene-d10
Concen: 0.110 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

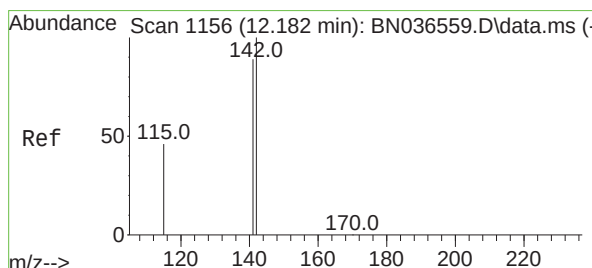
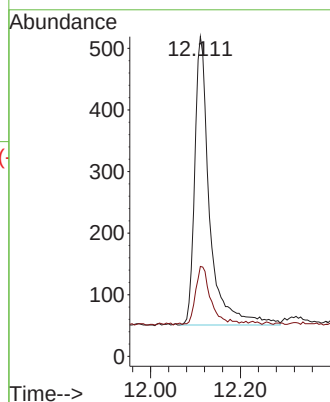
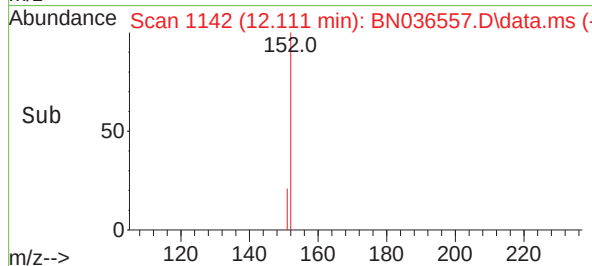
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 1079
Ion Ratio Lower Upper
152 100
151 19.5 17.0 25.6

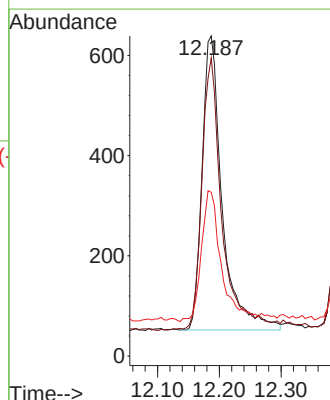
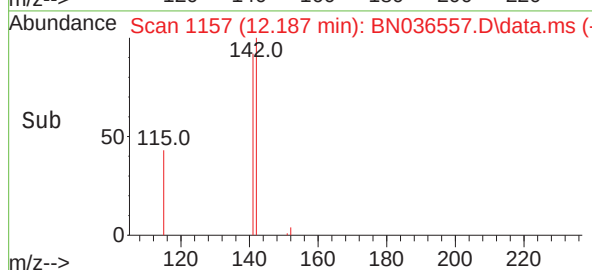
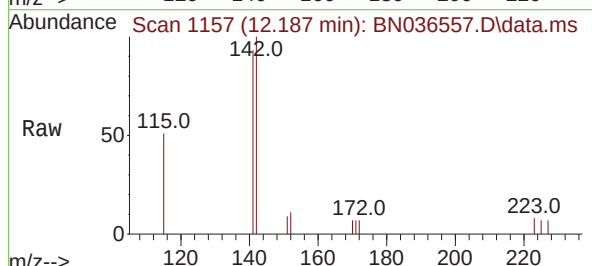
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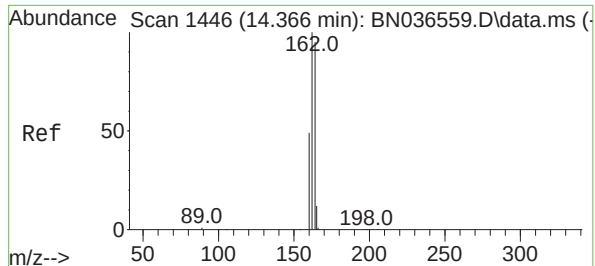
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

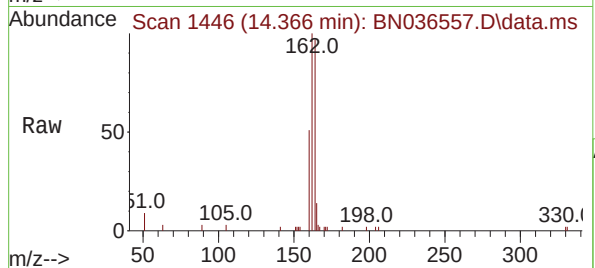
Tgt Ion:142 Resp: 1331
Ion Ratio Lower Upper
142 100
141 93.1 71.7 107.5
115 51.2 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

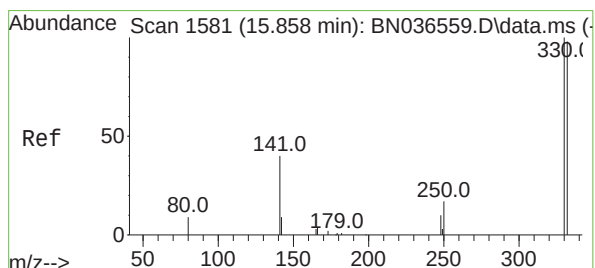
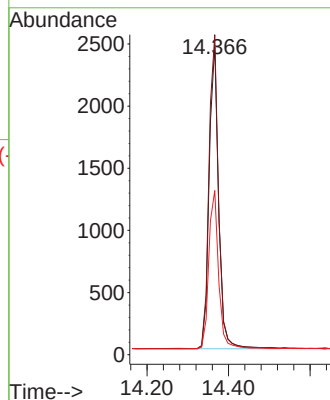
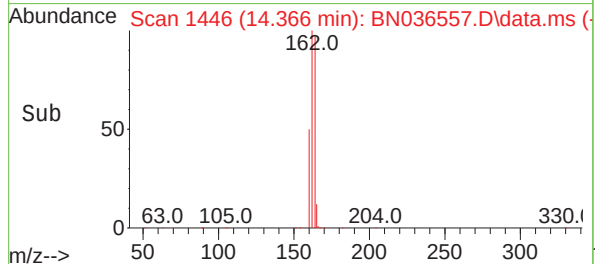
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:164 Resp: 395
Ion Ratio Lower Upper
164 100
162 103.3 84.2 126.2
160 53.0 42.2 63.2

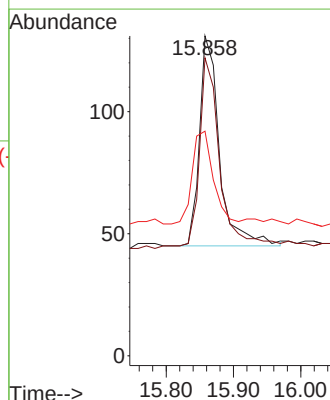
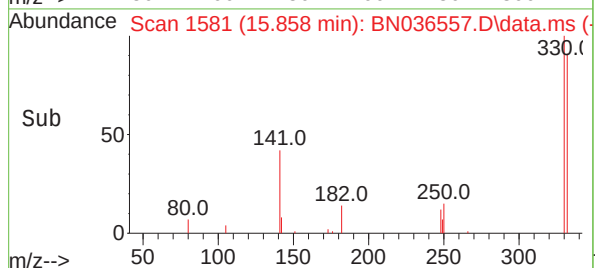
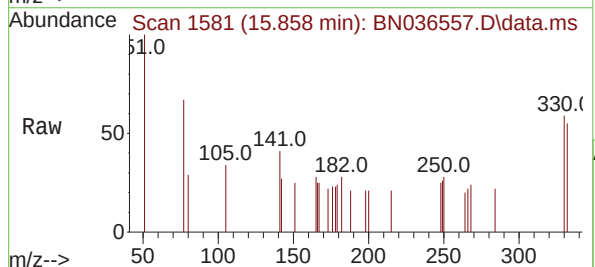
Manual Integrations
APPROVED

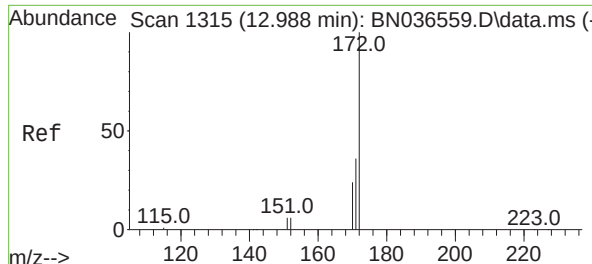
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:330 Resp: 179
Ion Ratio Lower Upper
330 100
332 96.1 75.2 112.8
141 46.4 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 0.095 ng

RT: 12.993 min Scan# 1419

Delta R.T. 0.005 min

Lab File: BN036557.D

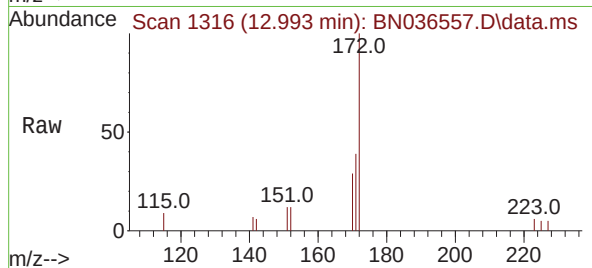
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



Tgt Ion:172 Resp: 218

Ion Ratio Lower Upper

172 100

171 38.9 29.5 44.3

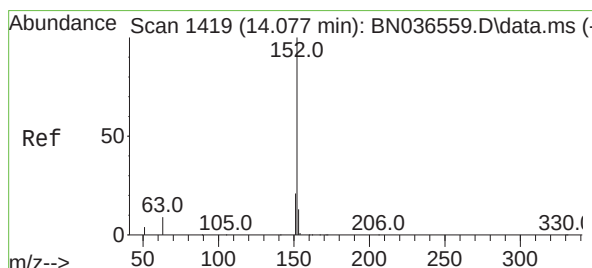
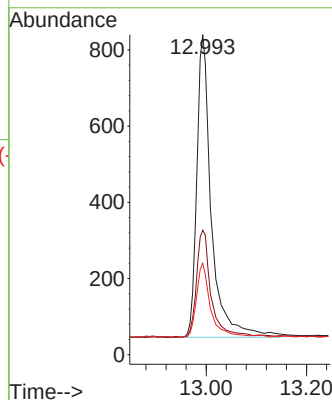
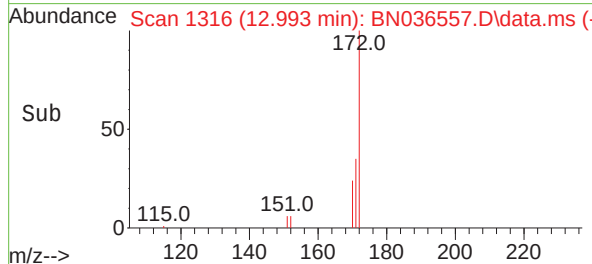
170 28.6 20.2 30.4

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Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#16

Acenaphthylene

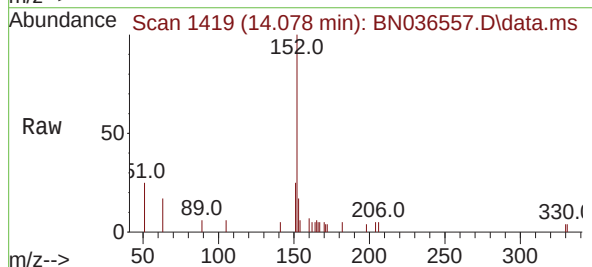
Concen: 0.100 ng

RT: 14.078 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42



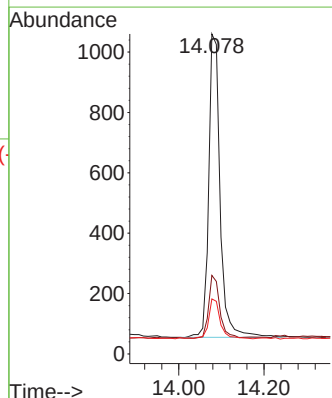
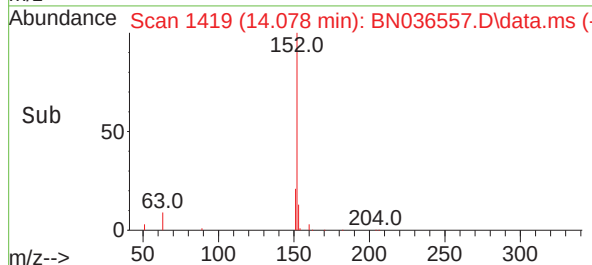
Tgt Ion:152 Resp: 1862

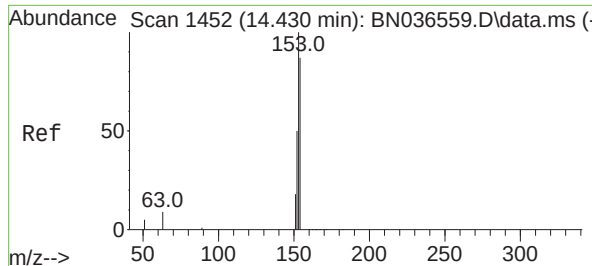
Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.4

153 14.1 10.6 15.8





#17

Acenaphthene

Concen: 0.102 ng

RT: 14.430 min Scan# 1452

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

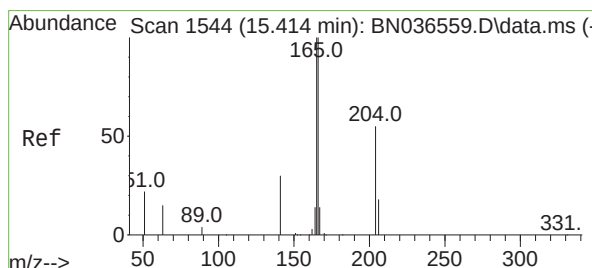
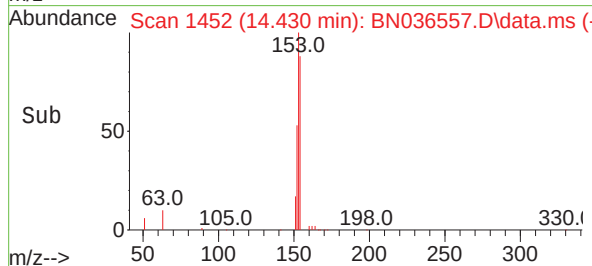
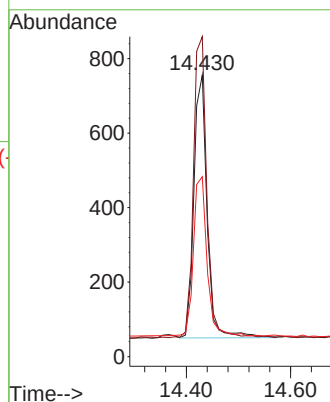
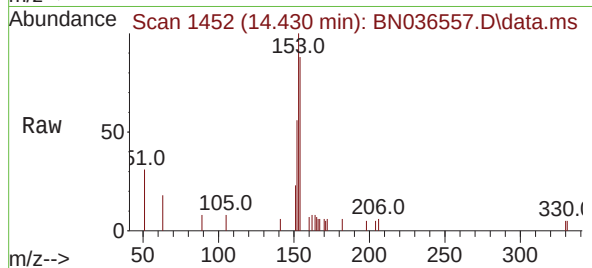
ClientSampleId :

SSTDICC0.1

Tgt Ion:154	Resp:	124
Ion Ratio	Lower	Upper
154	100	
153	115.9	94.1 141.1
152	62.5	49.8 74.6

Manual Integrations
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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#18

Fluorene

Concen: 0.097 ng

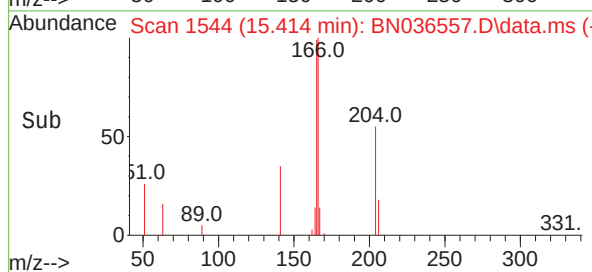
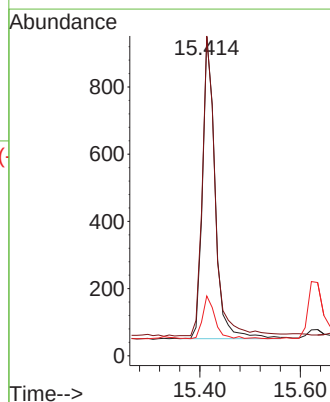
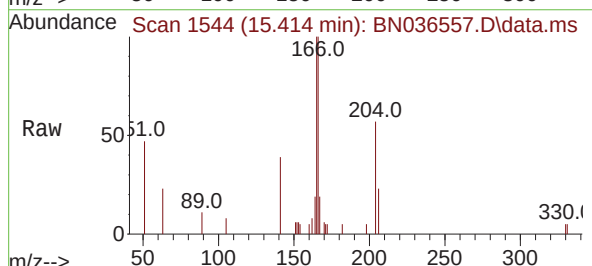
RT: 15.414 min Scan# 1544

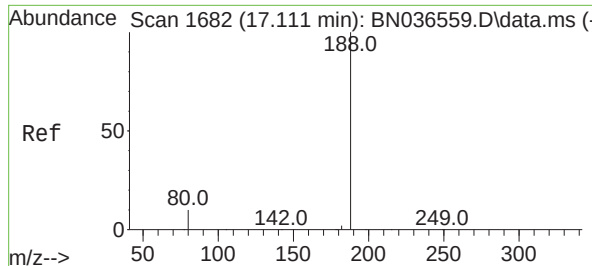
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:166	Resp:	1612
Ion Ratio	Lower	Upper
166	100	
165	100.9	79.8 119.8
167	13.9	10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1682

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

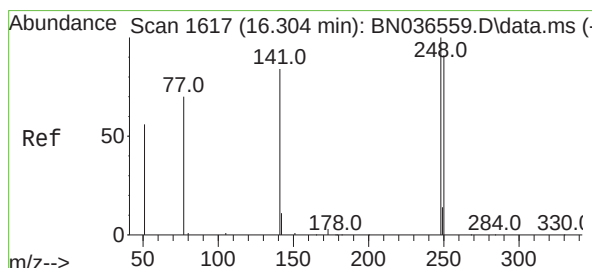
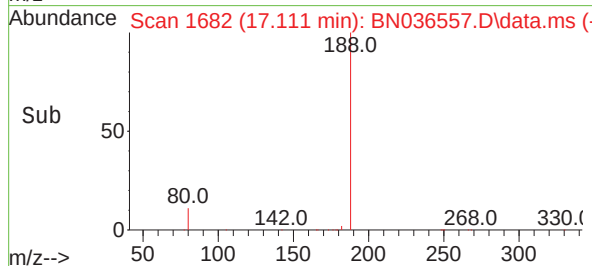
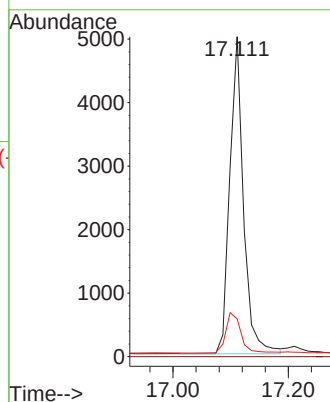
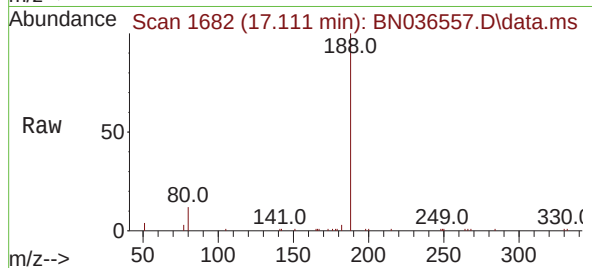
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	8.8	13.2

Manual Integrations
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Supervised By :Jagrut Upadhyay 03/11/2025

#21

4-Bromophenyl-phenylether

Concen: 0.097 ng

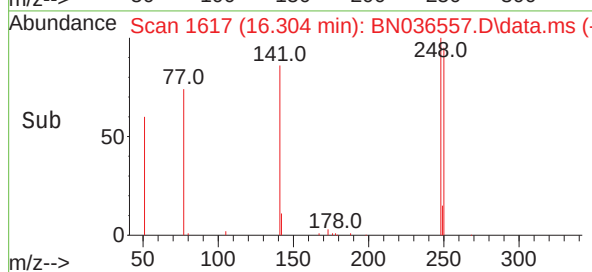
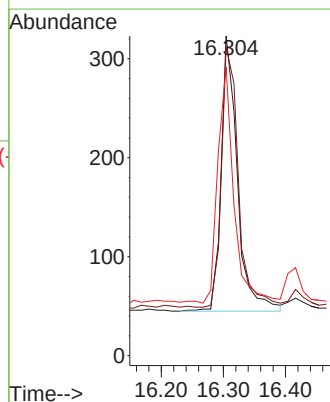
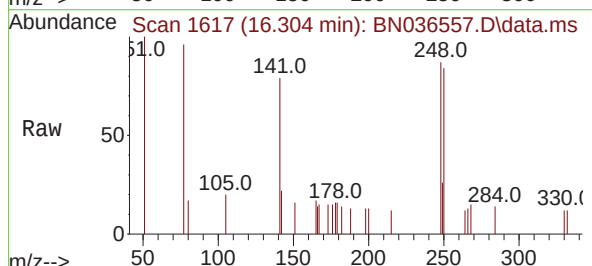
RT: 16.304 min Scan# 1617

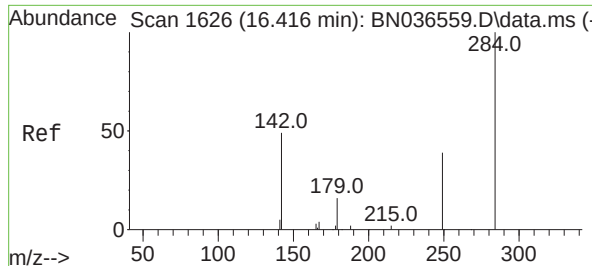
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.6	73.0	109.6
141	90.4	68.6	103.0





#22

Hexachlorobenzene

Concen: 0.101 ng

RT: 16.416 min Scan# 1626

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

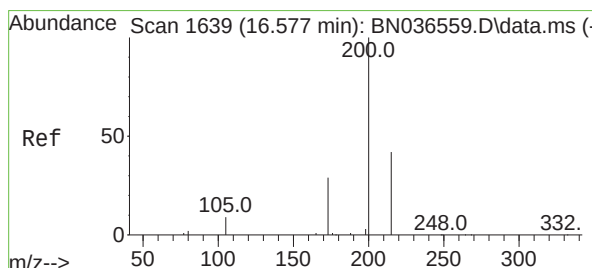
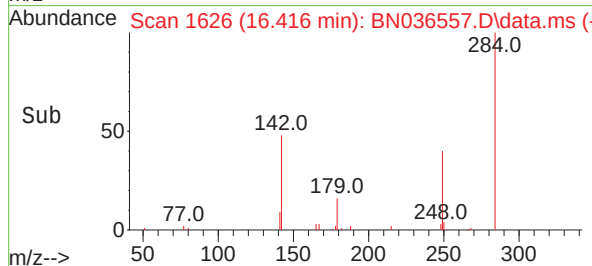
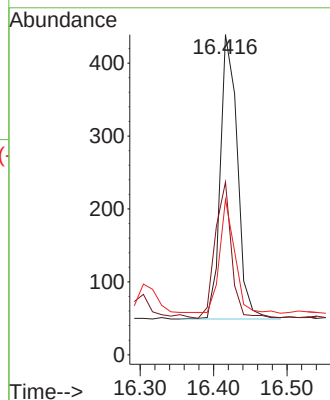
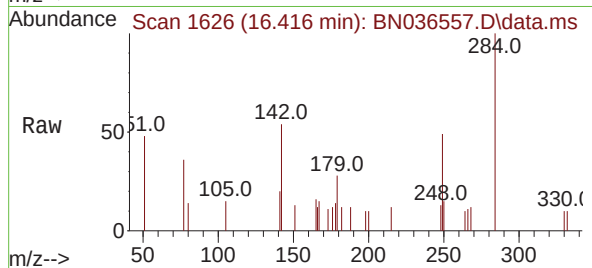
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion	Ratio	Lower	Upper
284	100		
142	45.7	37.0	55.4
249	37.2	28.1	42.1

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Supervised By :Jagrut Upadhyay 03/11/2025

#23

Atrazine

Concen: 0.096 ng

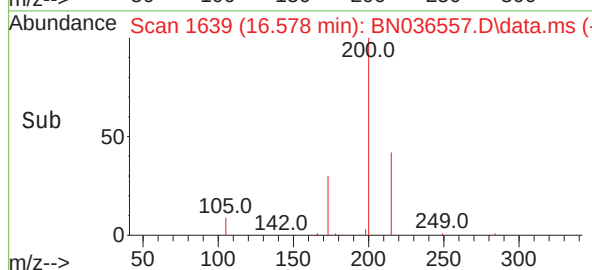
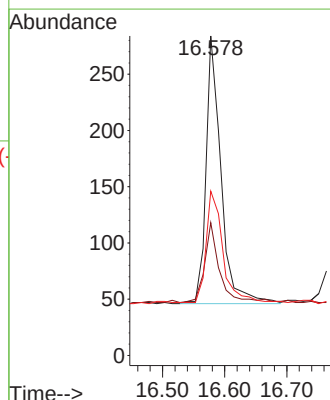
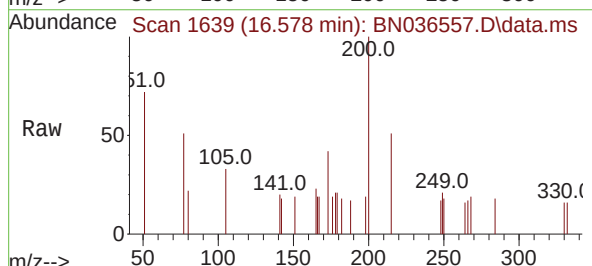
RT: 16.578 min Scan# 1639

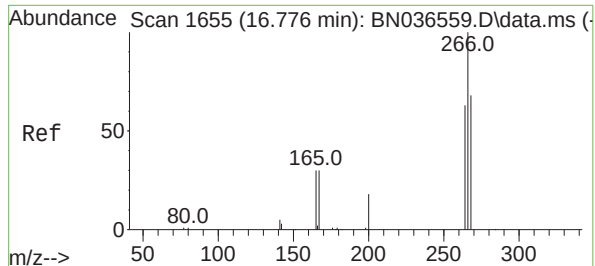
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion	Ratio	Lower	Upper
200	100		
173	41.5	27.3	40.9#
215	51.4	36.8	55.2





#24

Pentachlorophenol

Concen: 0.102 ng

RT: 16.776 min Scan# 1655

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

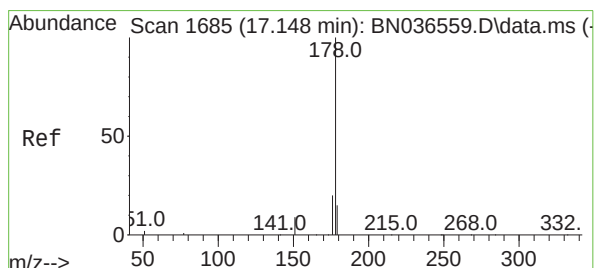
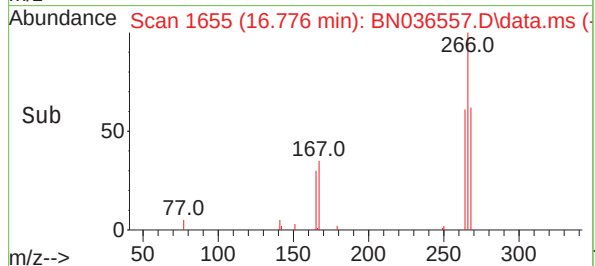
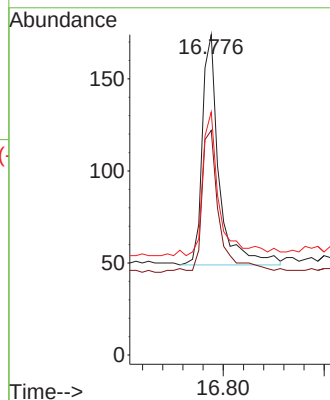
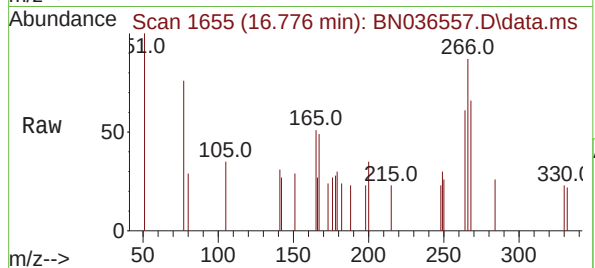
SSTDICC0.1

Tgt Ion:	266	Resp:	290
Ion Ratio	Lower	Upper	
266	100		
264	64.8	49.6	74.4
268	62.8	50.9	76.3

Manual Integrations

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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#25

Phenanthrene

Concen: 0.099 ng

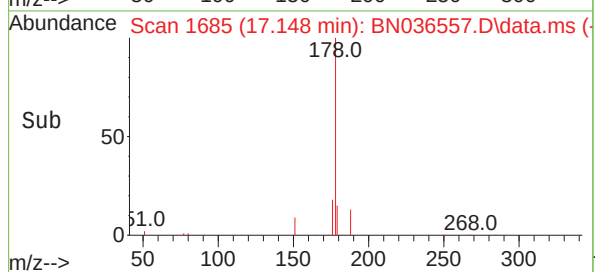
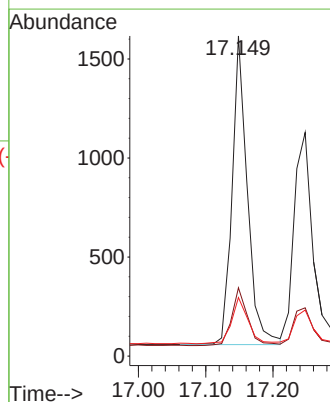
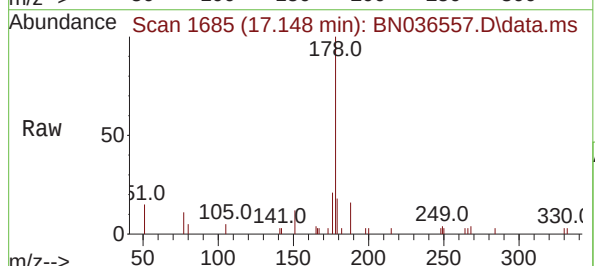
RT: 17.148 min Scan# 1685

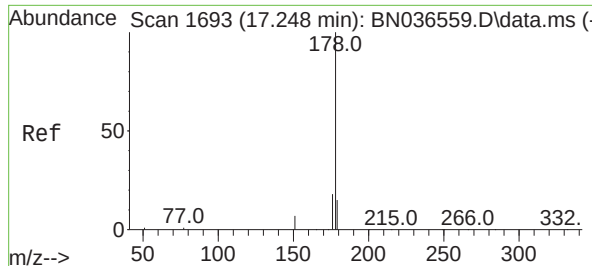
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	178	Resp:	2459
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.9	23.9
179	16.1	12.2	18.4





#26

Anthracene

Concen: 0.095 ng

RT: 17.248 min Scan# 1693

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

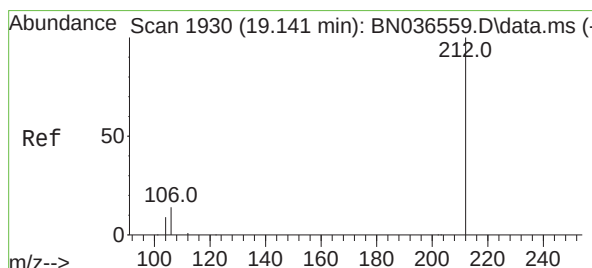
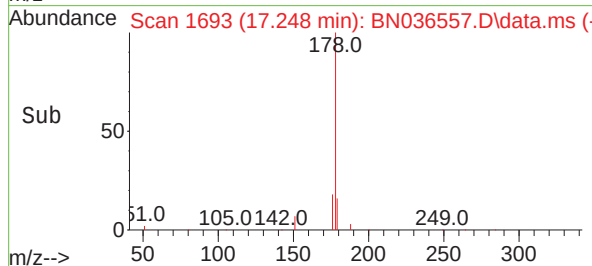
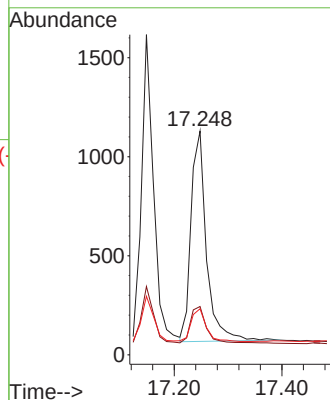
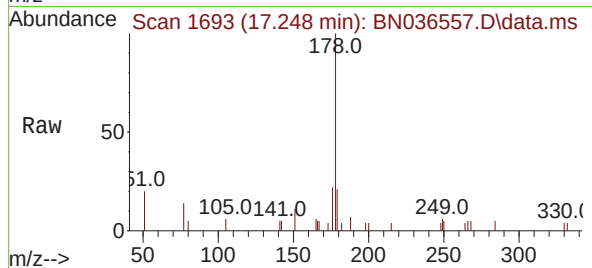
Tgt Ion:	178	Resp:	212
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.4	23.2
179	15.7	12.6	18.8

Manual Integrations

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Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#27

Fluoranthene-d10

Concen: 0.101 ng

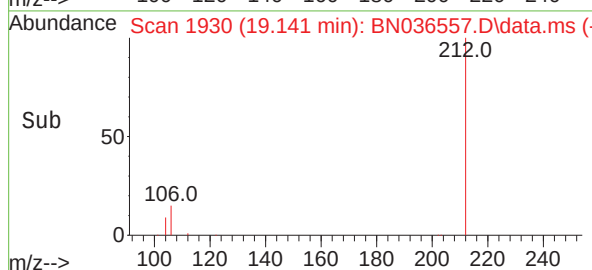
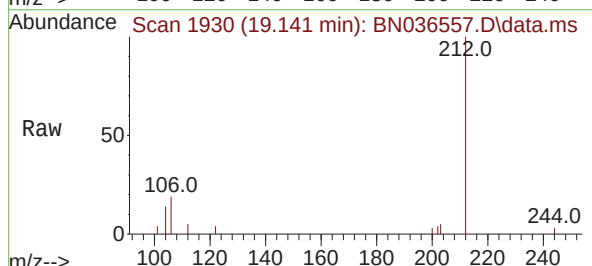
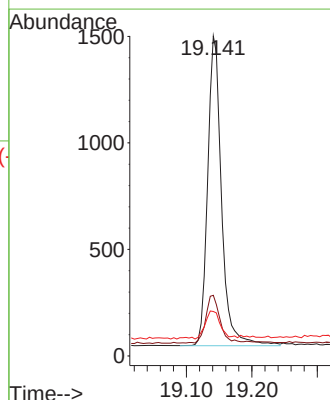
RT: 19.141 min Scan# 1930

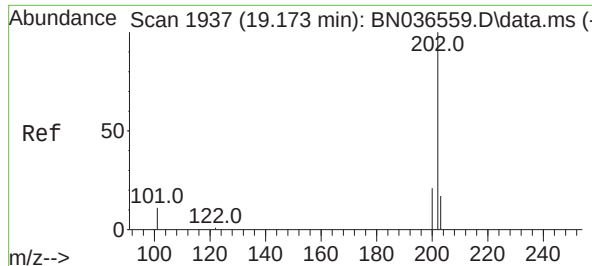
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	212	Resp:	2144
Ion Ratio	Lower	Upper	
212	100		
106	15.5	11.8	17.6
104	9.7	7.3	10.9





#28

Fluoranthene

Concen: 0.099 ng

RT: 19.174 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

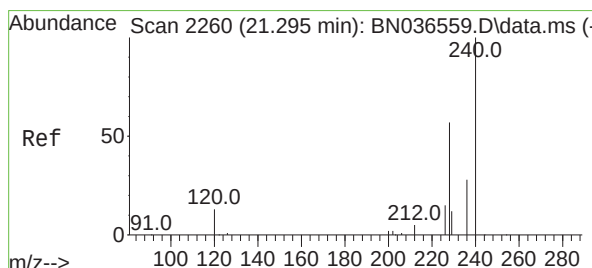
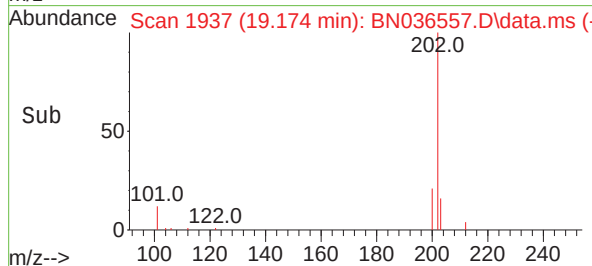
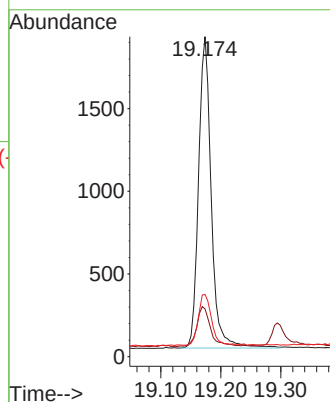
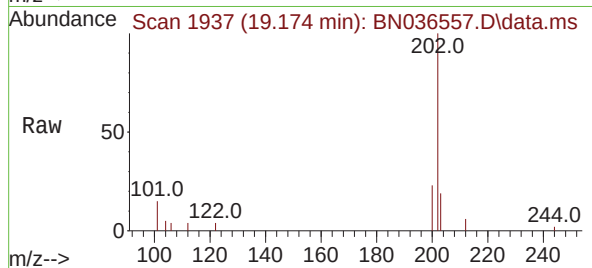
SSTDICC0.1

Tgt Ion:	202	Resp:	277
Ion Ratio	Lower	Upper	
202	100		
101	14.0	9.4	14.0
203	17.0	13.5	20.3

Manual Integrations

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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#29

Chrysene-d12

Concen: 0.400 ng

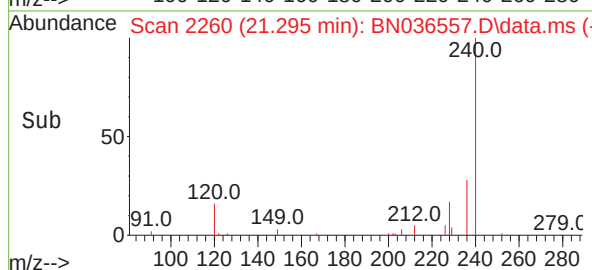
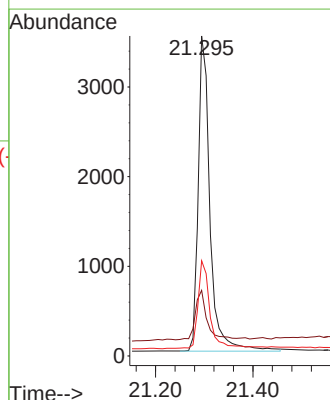
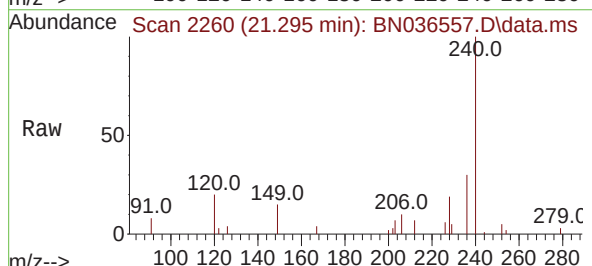
RT: 21.295 min Scan# 2260

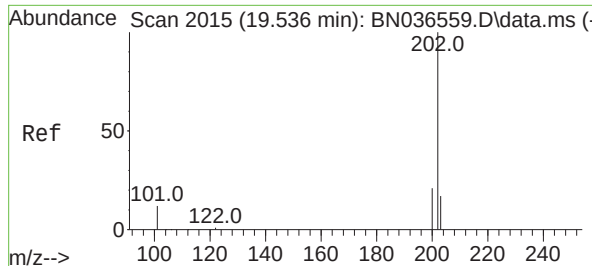
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	240	Resp:	5886
Ion Ratio	Lower	Upper	
240	100		
120	20.5	14.6	22.0
236	29.8	24.1	36.1





#30

Pyrene

Concen: 0.099 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

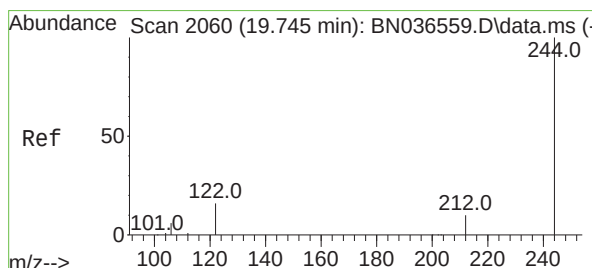
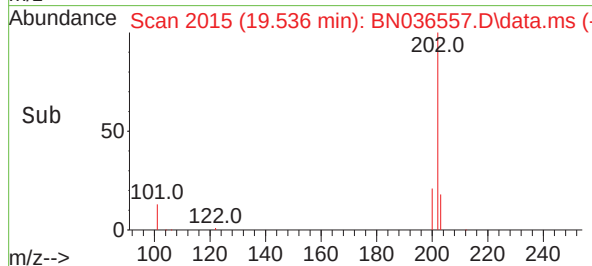
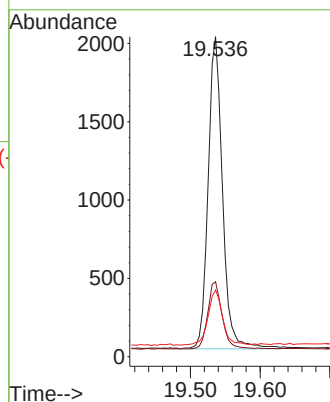
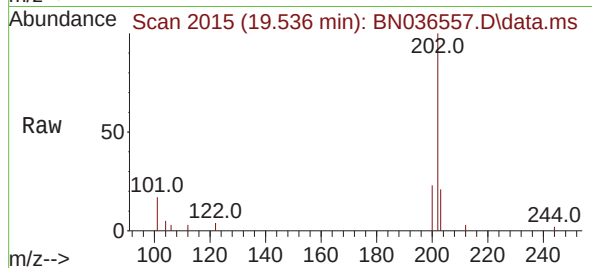
SSTDICC0.1

Tgt Ion:	202	Resp:	286
Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.9	14.1	21.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#31

Terphenyl-d14

Concen: 0.100 ng

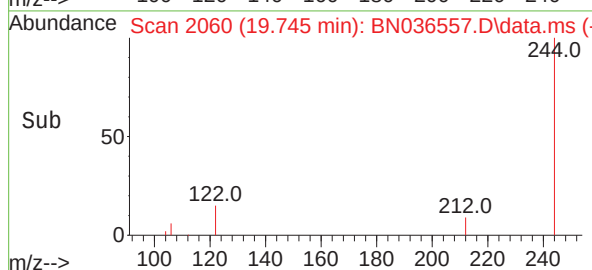
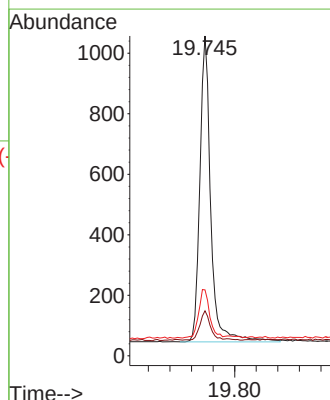
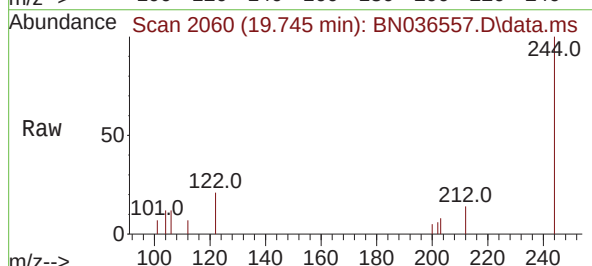
RT: 19.745 min Scan# 2060

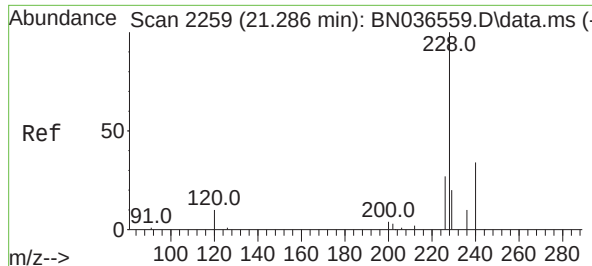
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	244	Resp:	1416
Ion	Ratio	Lower	Upper
244	100		
212	14.1	9.6	14.4
122	20.6	13.9	20.9





#32

Benzo(a)anthracene

Concen: 0.100 ng

RT: 21.286 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

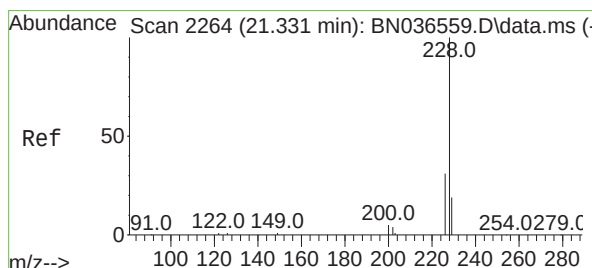
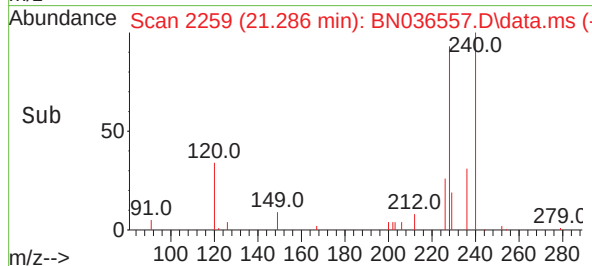
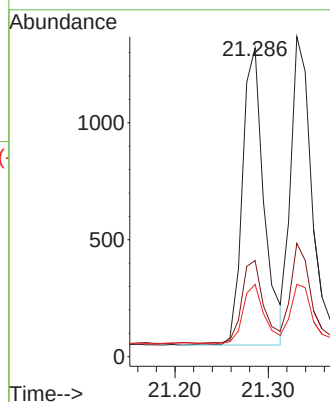
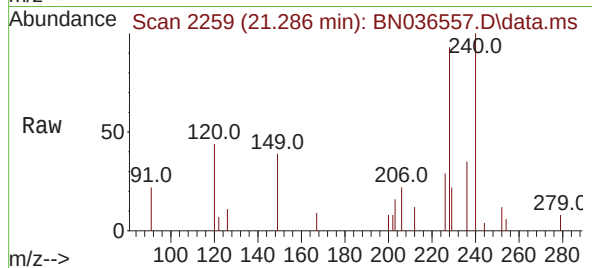
SSTDICC0.1

Tgt Ion:	228	Resp:	204
Ion Ratio	Lower	Upper	
228	100		
226	31.1	22.5	33.7
229	23.4	16.6	25.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#33

Chrysene

Concen: 0.098 ng

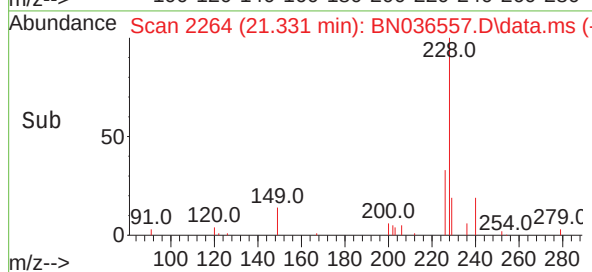
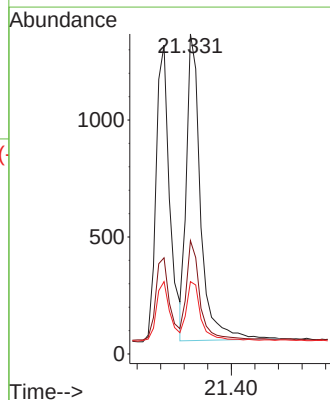
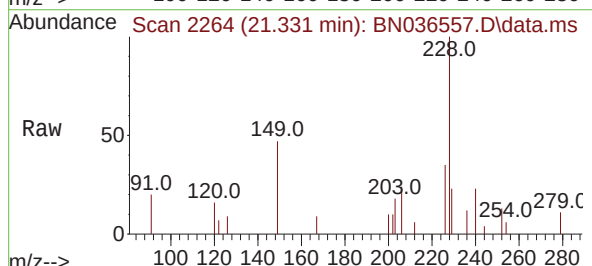
RT: 21.331 min Scan# 2264

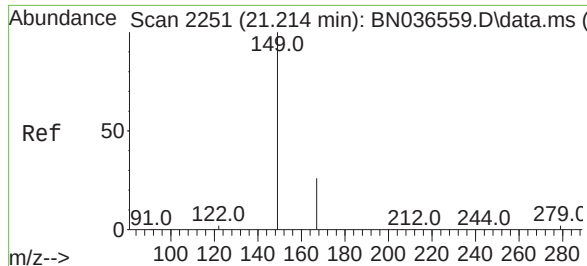
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:	228	Resp:	2187
Ion Ratio	Lower	Upper	
228	100		
226	35.4	25.3	37.9
229	22.6	15.8	23.8





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.121 ng

RT: 21.214 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

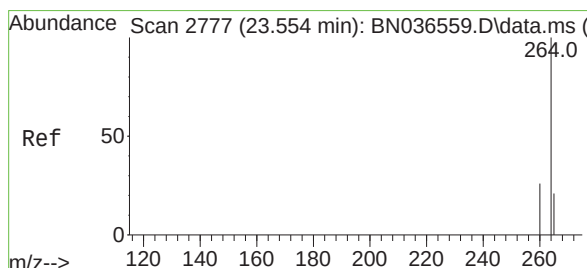
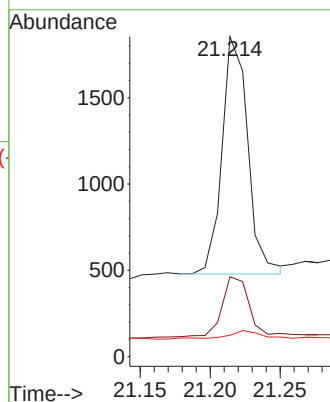
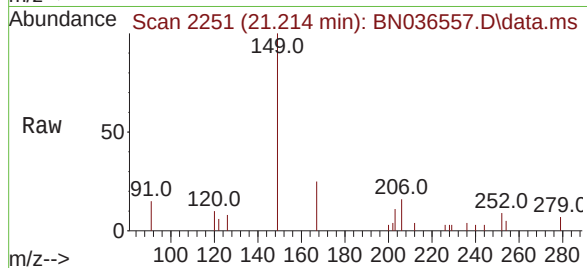
Tgt Ion:149	Resp:	1760
Ion Ratio	Lower	Upper
149	100	
167	27.9	20.7 31.1
279	4.9	3.6 5.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#35

Perylene-d12

Concen: 0.400 ng

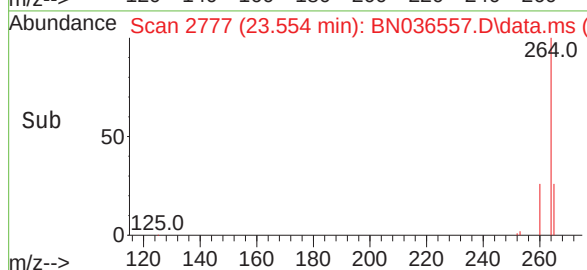
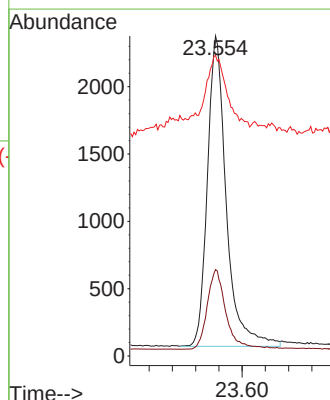
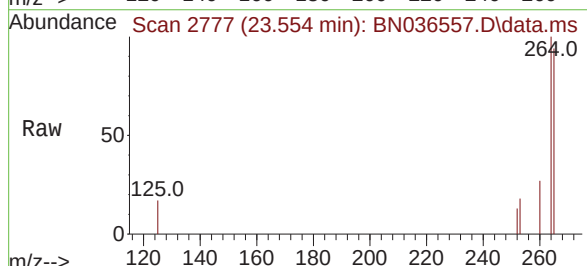
RT: 23.554 min Scan# 2777

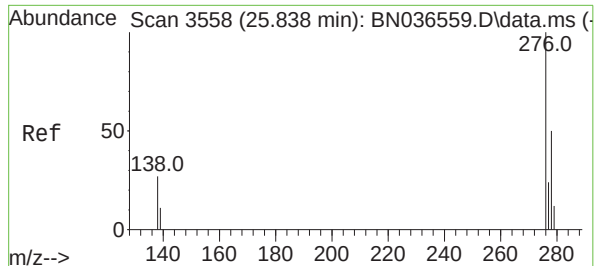
Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Tgt Ion:264	Resp:	5207
Ion Ratio	Lower	Upper
264	100	
260	27.0	22.6 33.8
265	93.9	88.1 132.1





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.080 ng

RT: 25.841 min Scan# 3558

Delta R.T. 0.003 min

Lab File: BN036557.D

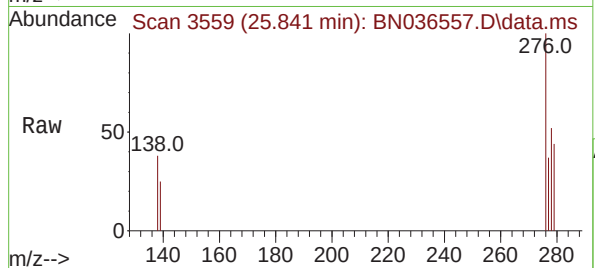
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



Tgt Ion:276 Resp: 1510

Ion Ratio Lower Upper

276 100

138 27.6 23.4 35.2

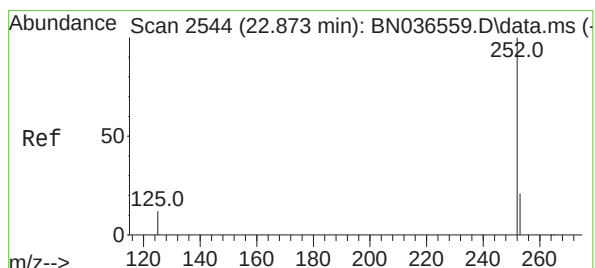
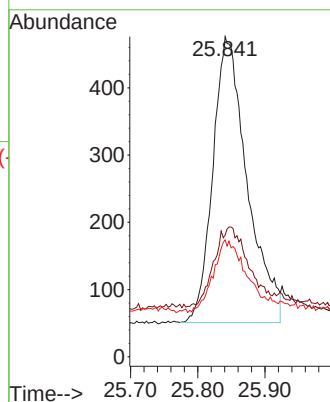
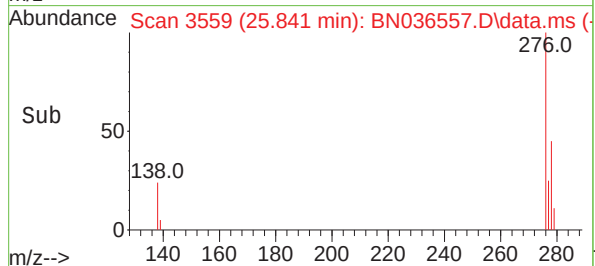
277 24.2 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#37

Benzo(b)fluoranthene

Concen: 0.090 ng

RT: 22.876 min Scan# 2545

Delta R.T. 0.003 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

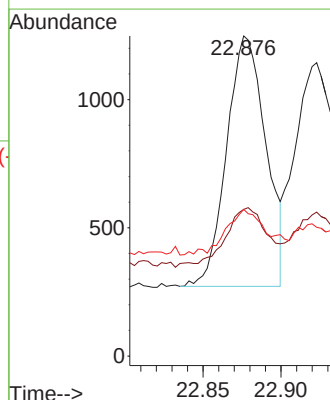
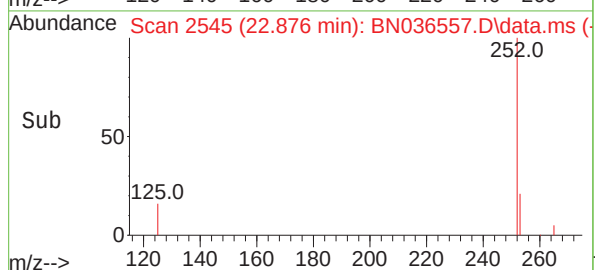
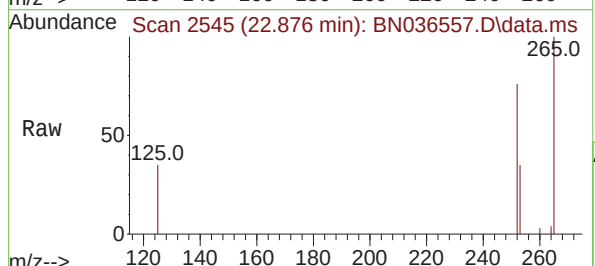
Tgt Ion:252 Resp: 1707

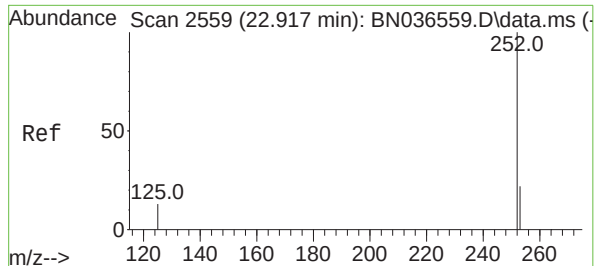
Ion Ratio Lower Upper

252 100

253 45.8 23.9 35.9#

125 45.8 17.4 26.2#





#38

Benzo(k)fluoranthene

Concen: 0.098 ng

RT: 22.923 min Scan# 2561

Delta R.T. 0.006 min

Lab File: BN036557.D

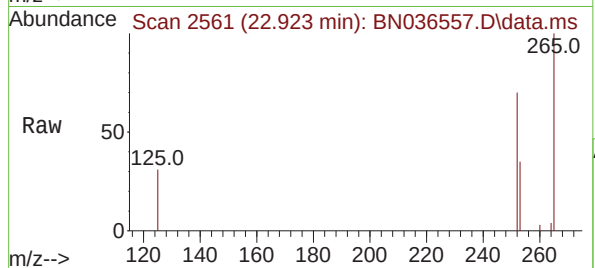
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



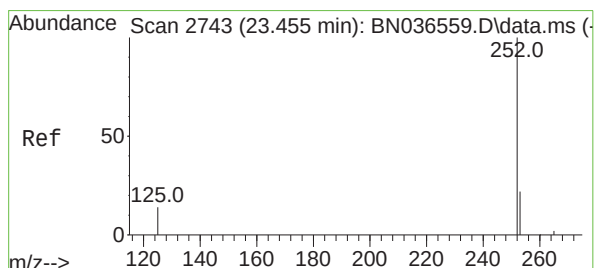
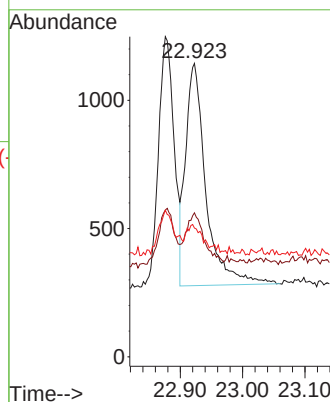
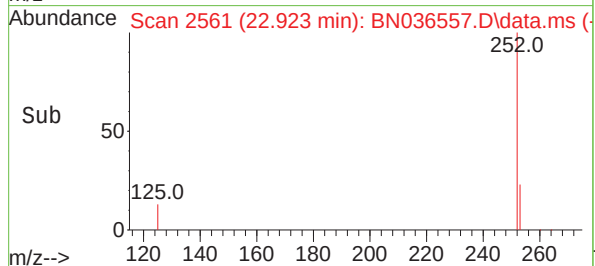
Tgt Ion:	252	Resp:	195
Ion Ratio	Lower	Upper	
252	100		
253	49.0	24.6	36.8
125	43.9	17.8	26.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#39

Benzo(a)pyrene

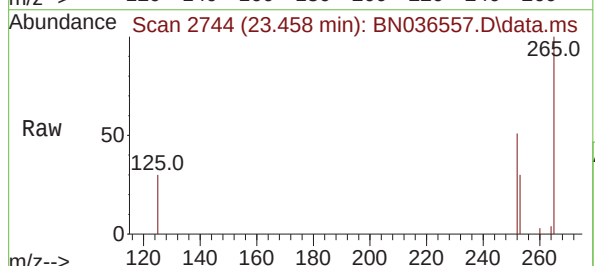
Concen: 0.089 ng

RT: 23.458 min Scan# 2744

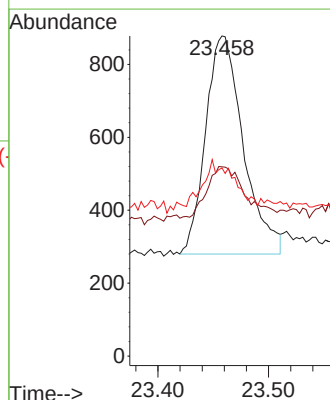
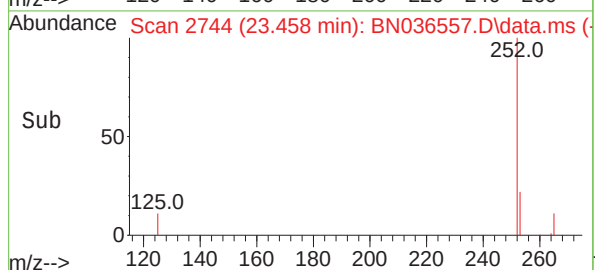
Delta R.T. 0.003 min

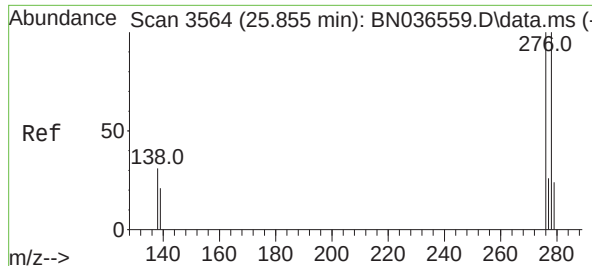
Lab File: BN036557.D

Acq: 10 Mar 2025 11:42



Tgt Ion:	252	Resp:	1419
Ion Ratio	Lower	Upper	
252	100		
253	59.1	27.8	41.8
125	58.8	22.7	34.1





#40

Dibenzo(a,h)anthracene

Concen: 0.079 ng

RT: 25.861 min Scan# 3564

Delta R.T. 0.006 min

Lab File: BN036557.D

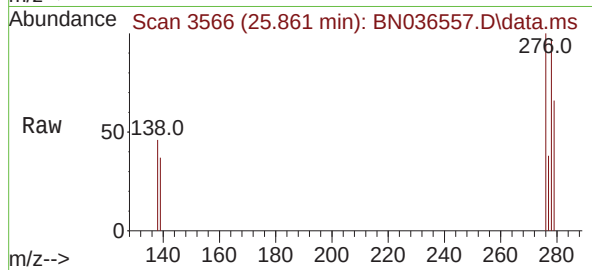
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



Tgt Ion:278 Resp: 1163

Ion Ratio Lower Upper

278 100

139 37.8 20.8 31.2#

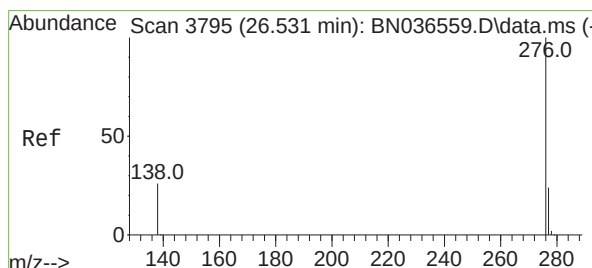
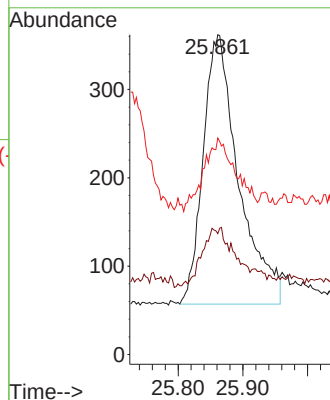
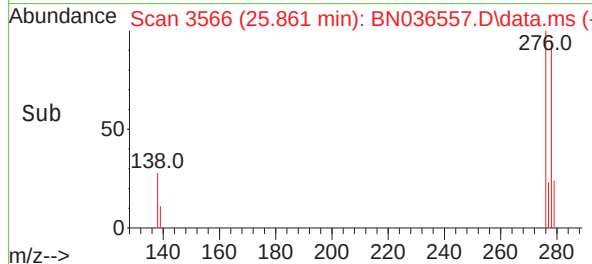
279 67.7 28.8 43.2#

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#41

Benzo(g,h,i)perylene

Concen: 0.089 ng

RT: 26.539 min Scan# 3798

Delta R.T. 0.009 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

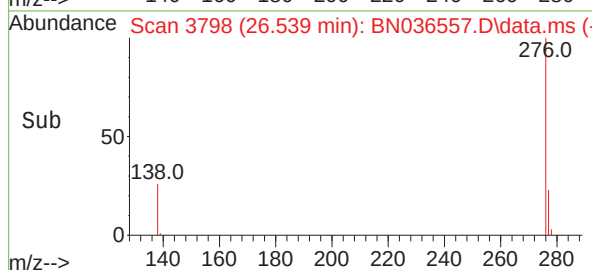
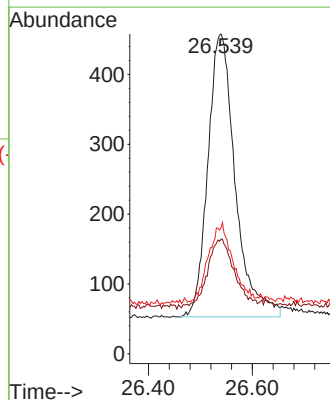
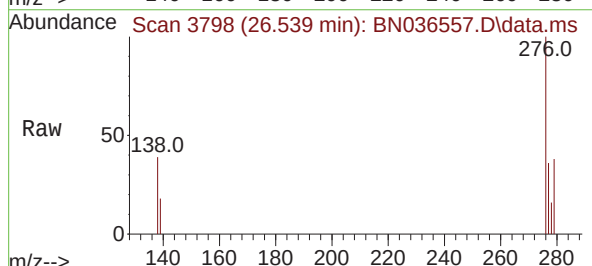
Tgt Ion:276 Resp: 1482

Ion Ratio Lower Upper

276 100

277 35.8 22.2 33.4#

138 39.3 24.1 36.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036558.D
 Acq On : 10 Mar 2025 12:18
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/11/2025
 Supervised By :Jagrut Upadhyay 03/11/2025

Quant Time: Mar 10 16:00:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2504	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5844	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3516	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	7506	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4730	0.400	ng	0.00
35) Perylene-d12	23.554	264	4241	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1137	0.195	ng	0.00
5) Phenol-d6	6.901	99	1323	0.184	ng	0.00
8) Nitrobenzene-d5	8.875	82	1156	0.182	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	1603	0.184	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	282	0.177	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	3485	0.170	ng	0.00
27) Fluoranthene-d10	19.146	212	3583	0.186	ng	0.00
31) Terphenyl-d14	19.745	244	2283	0.201	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	550m	0.198	ng	Qvalue
3) n-Nitrosodimethylamine	3.557	42	1094	0.195	ng	92
6) bis(2-Chloroethyl)ether	7.154	93	1440	0.193	ng	99
9) Naphthalene	10.562	128	3286	0.191	ng	97
10) Hexachlorobutadiene	10.850	225	828	0.205	ng	# 97
12) 2-Methylnaphthalene	12.187	142	2034	0.186	ng	97
16) Acenaphthylene	14.088	152	3087	0.186	ng	100
17) Acenaphthene	14.430	154	2038	0.188	ng	99
18) Fluorene	15.414	166	2813	0.191	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	214	0.258	ng	# 69
21) 4-Bromophenyl-phenylether	16.304	248	853	0.181	ng	93
22) Hexachlorobenzene	16.416	284	1079	0.190	ng	99
23) Atrazine	16.578	200	716	0.190	ng	97
24) Pentachlorophenol	16.776	266	435	0.168	ng	98
25) Phenanthrene	17.148	178	4171	0.185	ng	100
26) Anthracene	17.248	178	3645	0.179	ng	99
28) Fluoranthene	19.174	202	4666	0.184	ng	99
30) Pyrene	19.536	202	4742	0.205	ng	100
32) Benzo(a)anthracene	21.286	228	3111	0.189	ng	97
33) Chrysene	21.331	228	3568	0.199	ng	97
34) Bis(2-ethylhexyl)phtha...	21.214	149	2601	0.222	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.844	276	2790	0.182	ng	98
37) Benzo(b)fluoranthene	22.876	252	2883	0.187	ng	# 83
38) Benzo(k)fluoranthene	22.917	252	2962	0.183	ng	# 86
39) Benzo(a)pyrene	23.458	252	2443	0.188	ng	# 76
40) Dibenzo(a,h)anthracene	25.858	278	2080	0.175	ng	# 83
41) Benzo(g,h,i)perylene	26.536	276	2573	0.189	ng	95

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

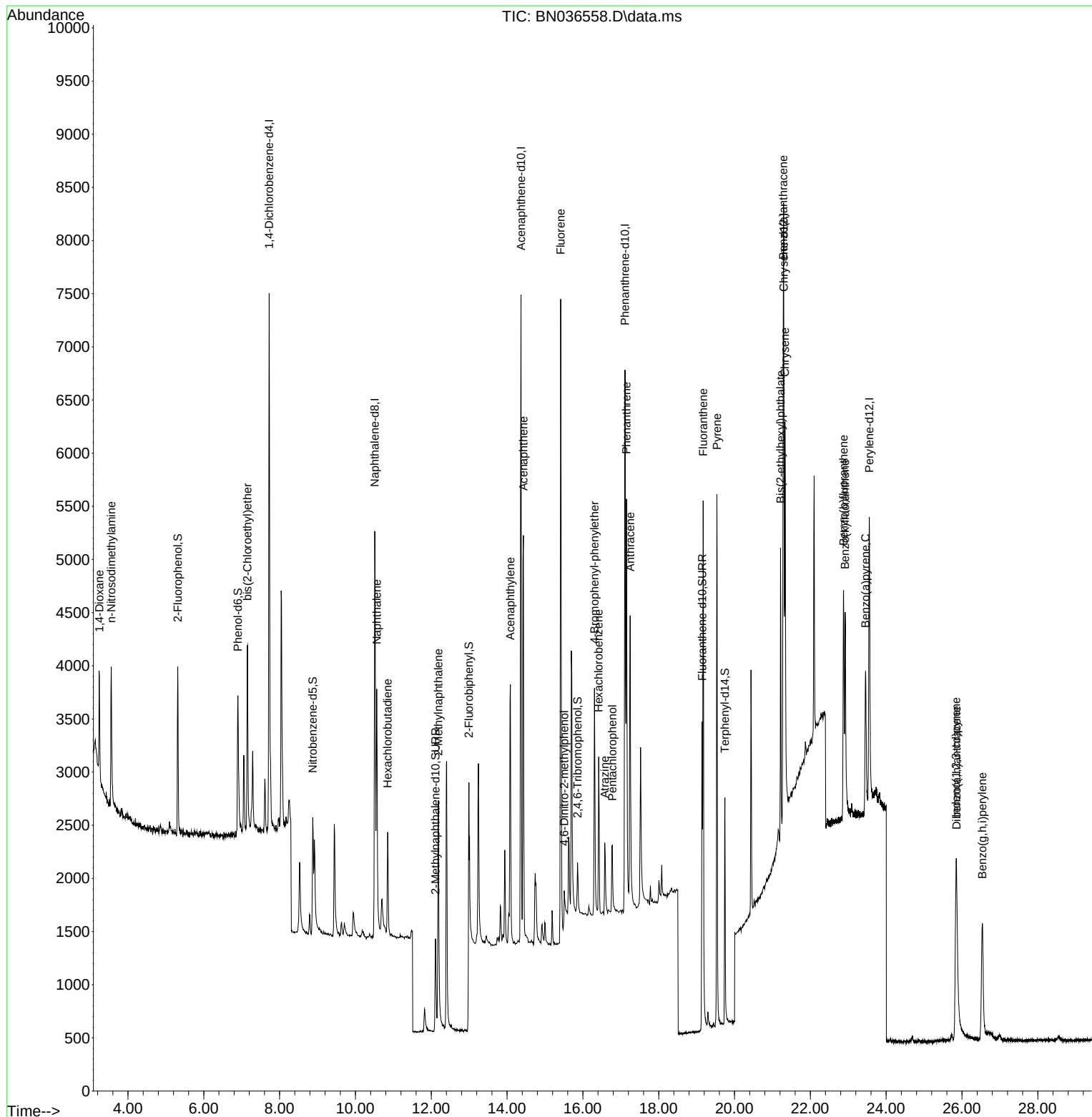
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

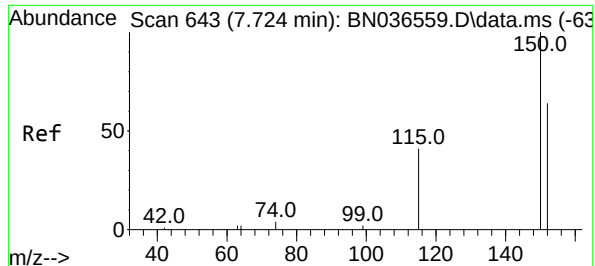
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

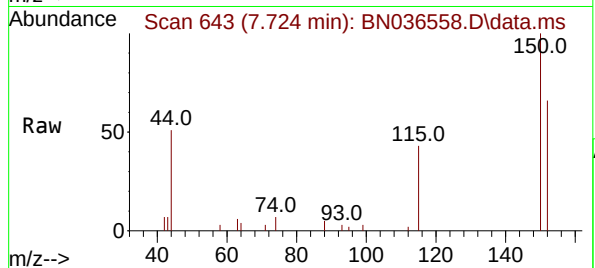
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

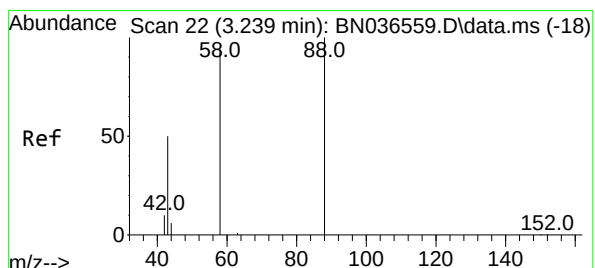
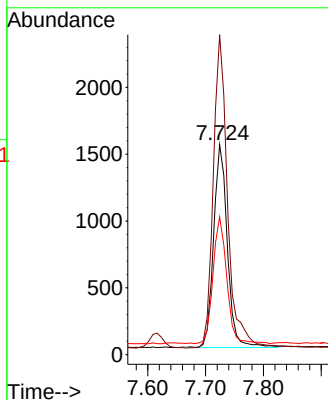
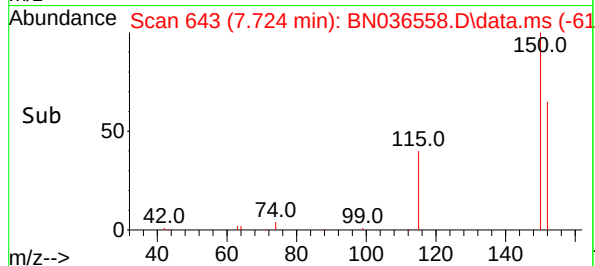
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 2504
Ion Ratio Lower Upper
152 100
150 152.3 123.7 185.5
115 65.5 54.3 81.5

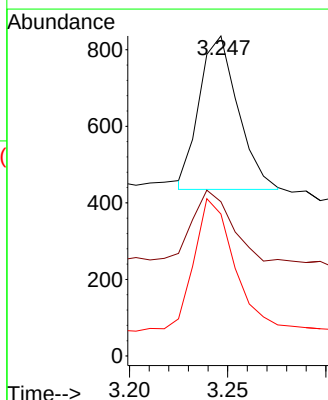
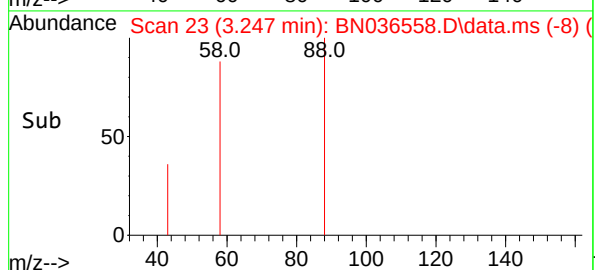
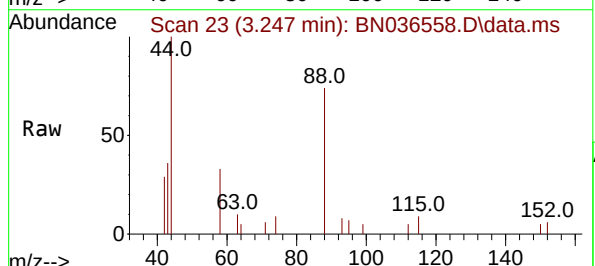
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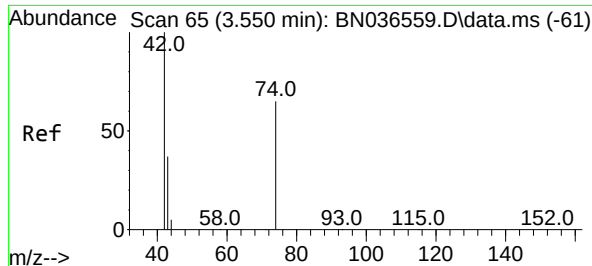
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#2
1,4-Dioxane
Concen: 0.198 ng m
RT: 3.247 min Scan# 23
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 88 Resp: 550
Ion Ratio Lower Upper
88 100
43 56.5 37.8 56.8
58 93.8 67.4 101.2





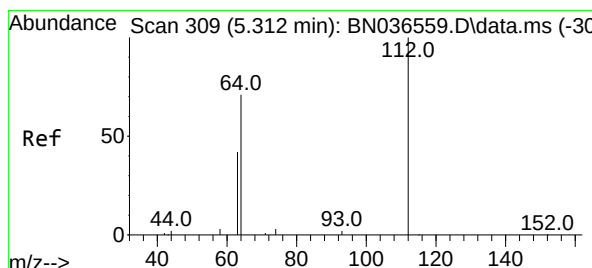
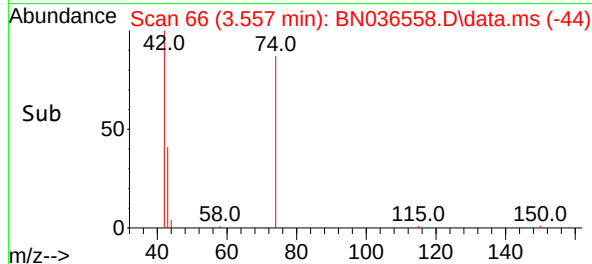
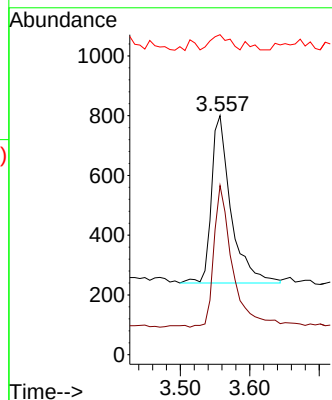
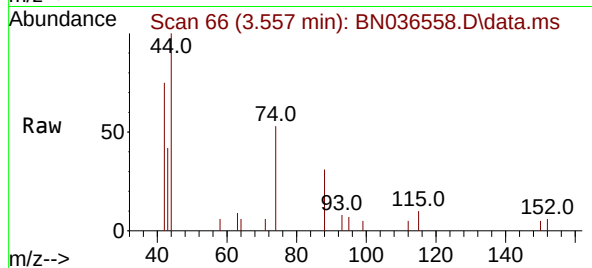
#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1094
Ion Ratio Lower Upper
42 100
74 83.2 60.6 90.8
44 8.5 6.3 9.5

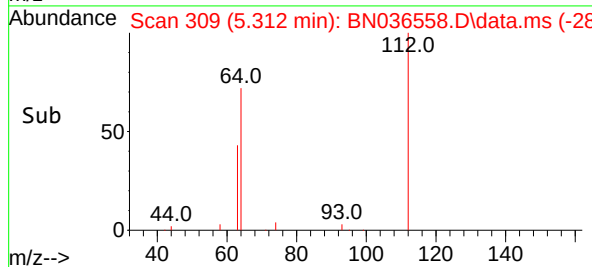
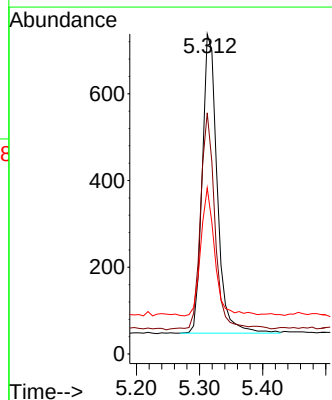
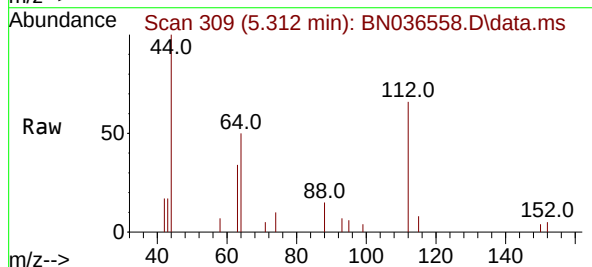
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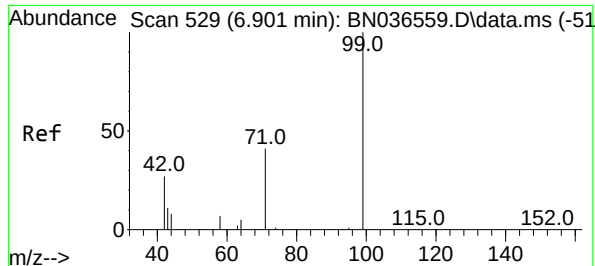
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:112 Resp: 1137
Ion Ratio Lower Upper
112 100
64 70.6 53.1 79.7
63 40.3 31.8 47.8





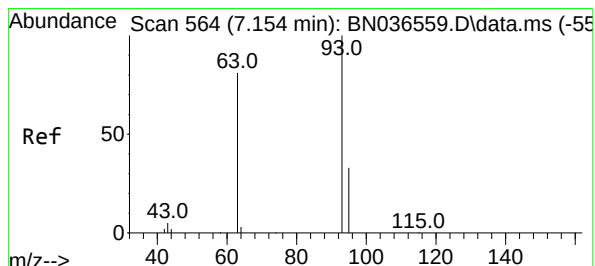
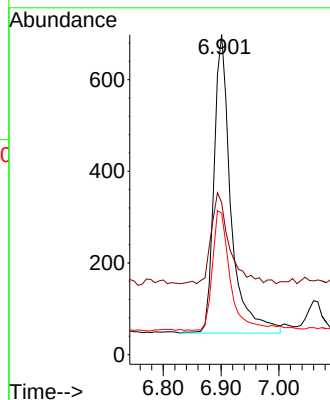
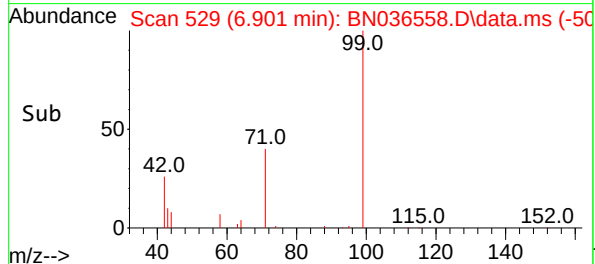
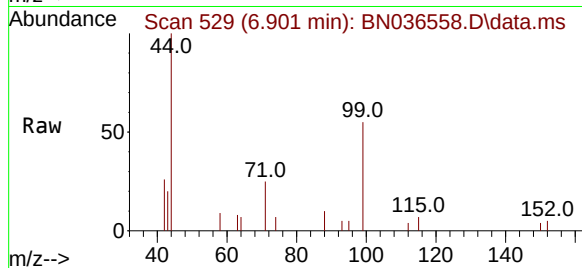
#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 132
Ion Ratio Lower Upper
99 100
42 32.7 26.5 39.7
71 41.3 34.1 51.1

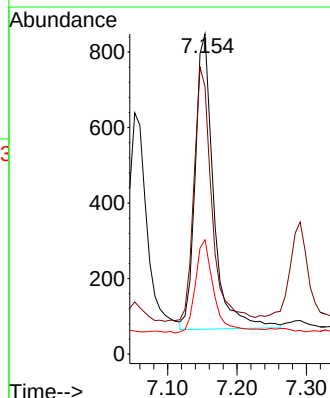
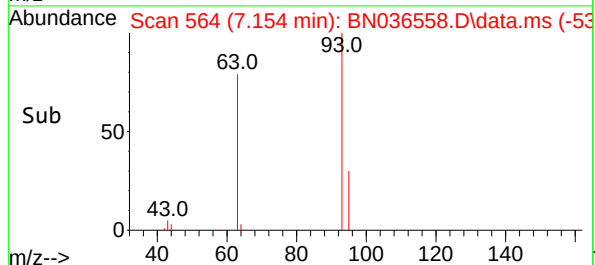
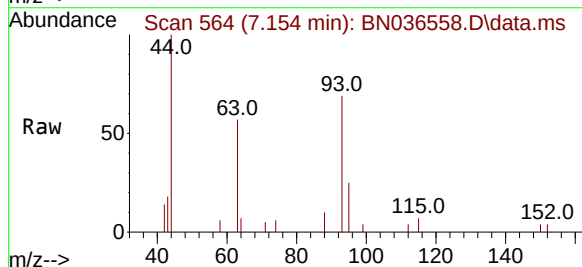
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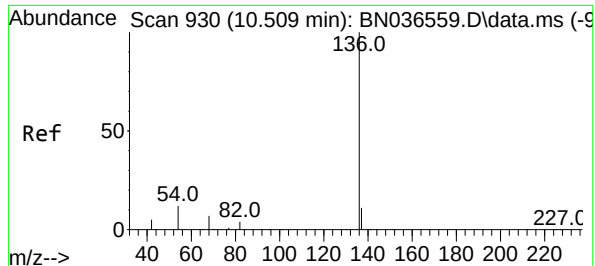
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

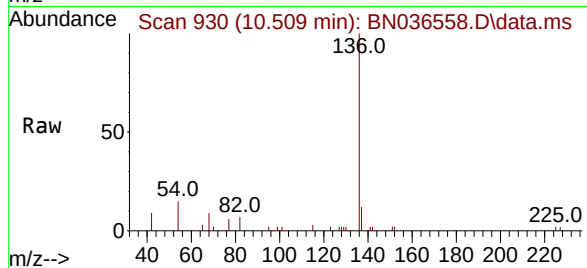
Tgt Ion: 93 Resp: 1440
Ion Ratio Lower Upper
93 100
63 82.9 67.7 101.5
95 31.9 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

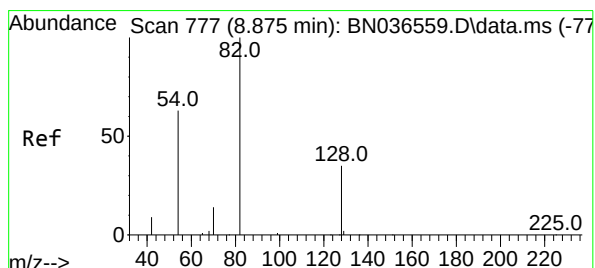
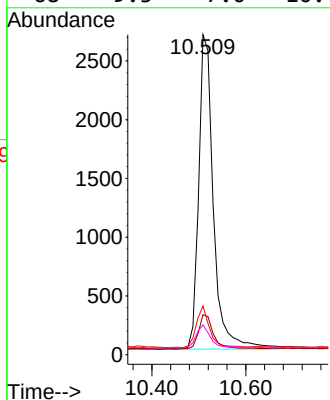
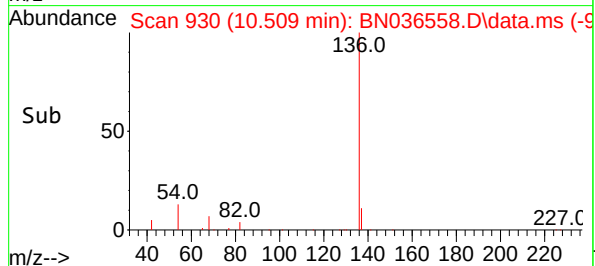
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:136 Resp: 584
Ion Ratio Lower Upper
136 100
137 12.5 10.3 15.5
54 15.1 11.5 17.3
68 9.3 7.0 10.4

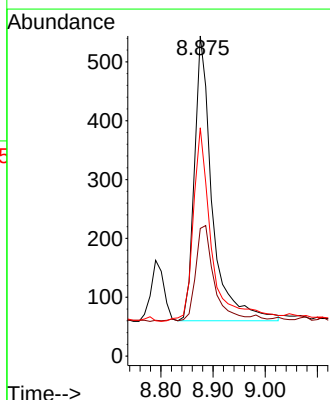
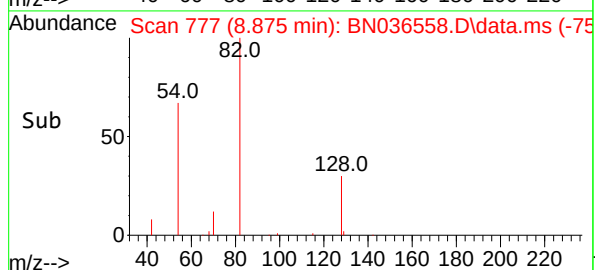
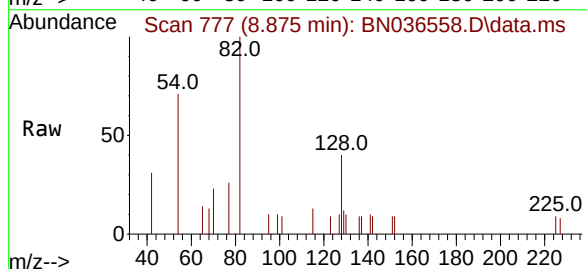
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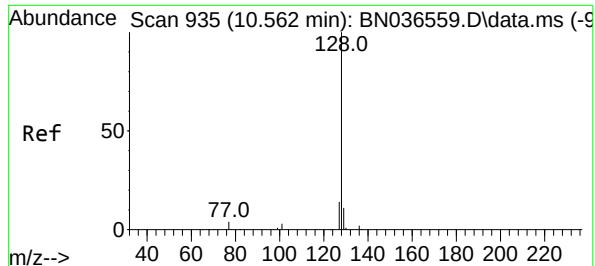
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#8
Nitrobenzene-d5
Concen: 0.182 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 82 Resp: 1156
Ion Ratio Lower Upper
82 100
128 39.9 30.6 45.8
54 71.3 52.2 78.4





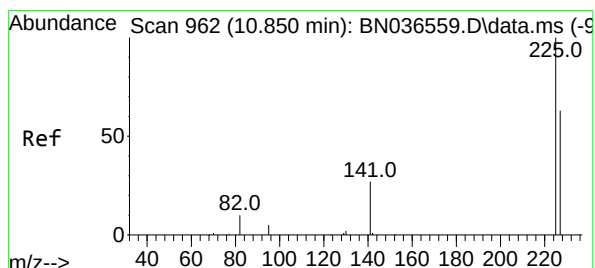
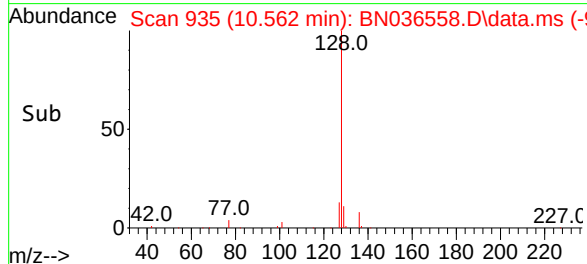
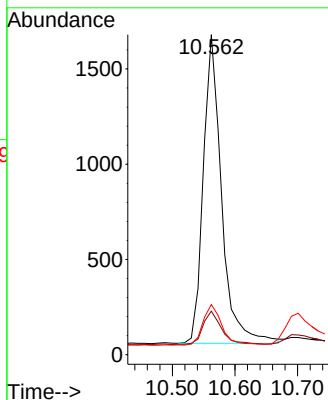
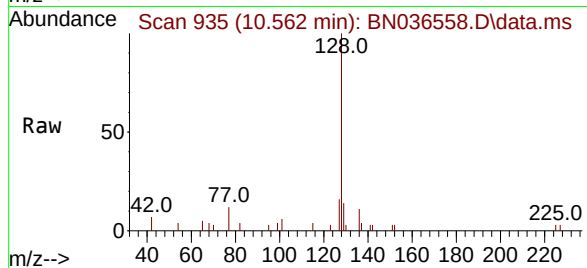
#9
Naphthalene
Concen: 0.191 ng
RT: 10.562 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 3280
Ion Ratio Lower Upper
128 100
129 13.6 9.8 14.6
127 15.7 11.8 17.8

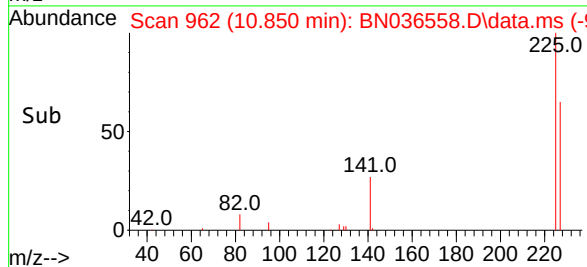
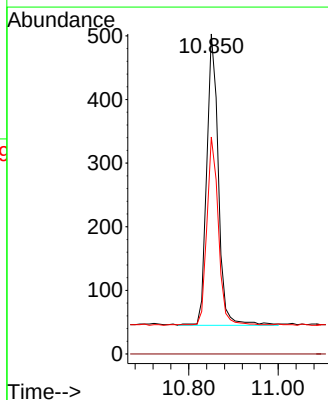
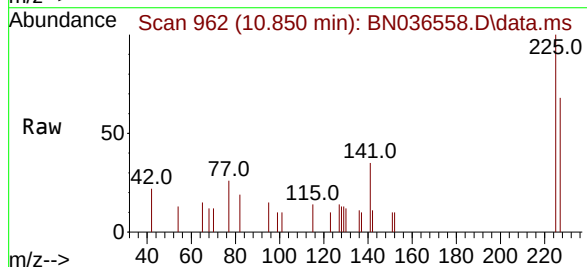
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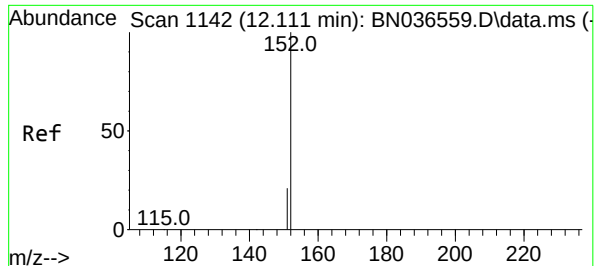
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#10
Hexachlorobutadiene
Concen: 0.205 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

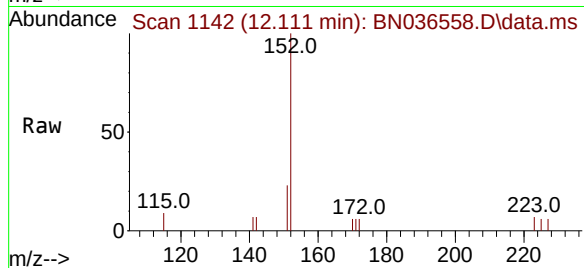
Tgt Ion:225 Resp: 828
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.6 51.8 77.8





#11
2-Methylnaphthalene-d10
Concen: 0.184 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

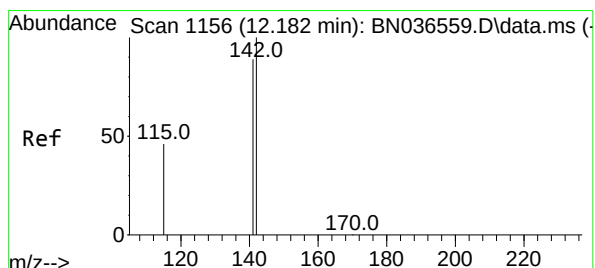
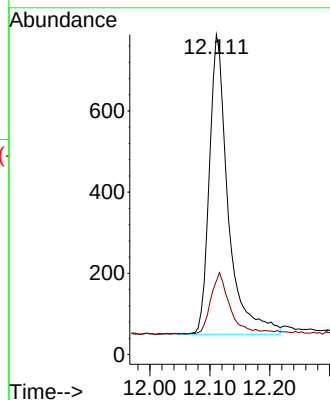
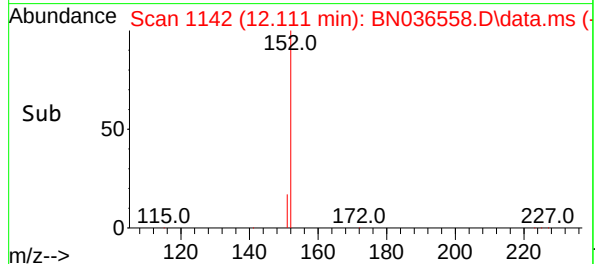
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 160
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6

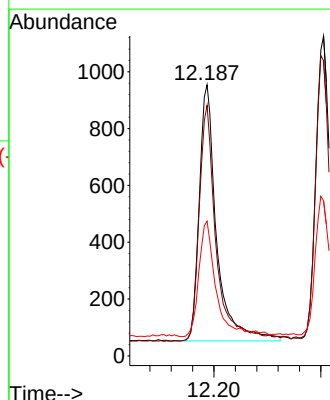
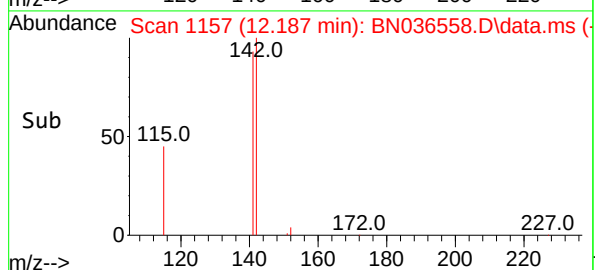
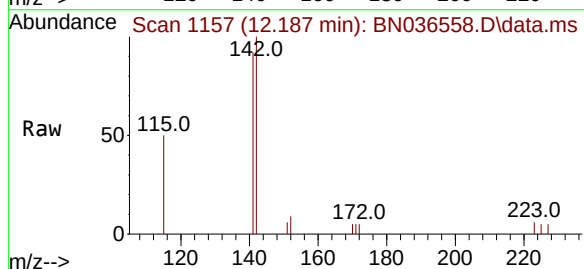
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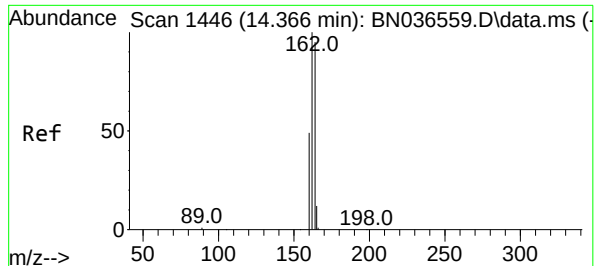
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

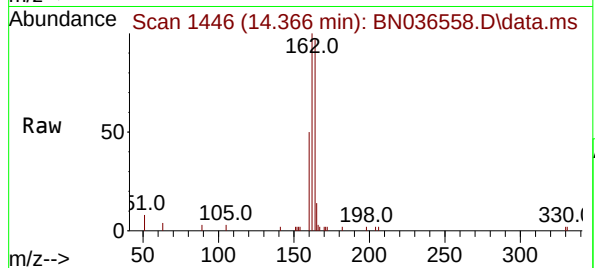
Tgt Ion:142 Resp: 2034
Ion Ratio Lower Upper
142 100
141 92.5 71.7 107.5
115 49.7 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

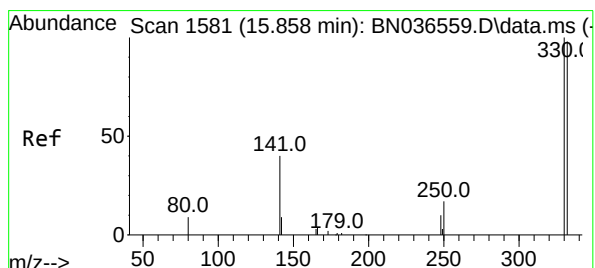
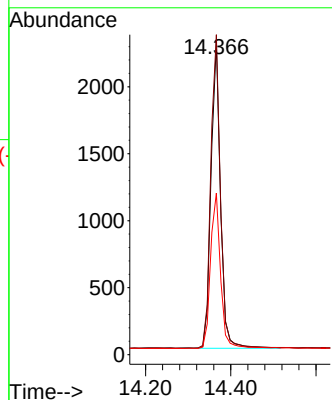
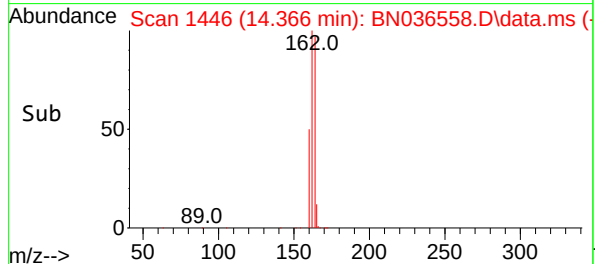
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



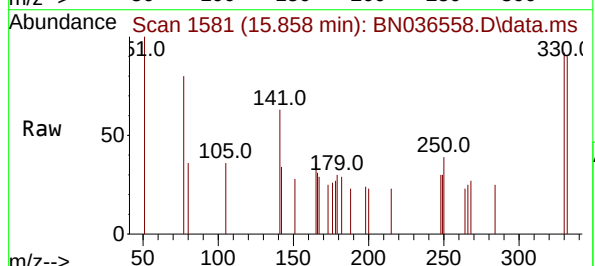
Tgt Ion:164 Resp: 3510
Ion Ratio Lower Upper
164 100
162 102.6 84.2 126.2
160 51.8 42.2 63.2

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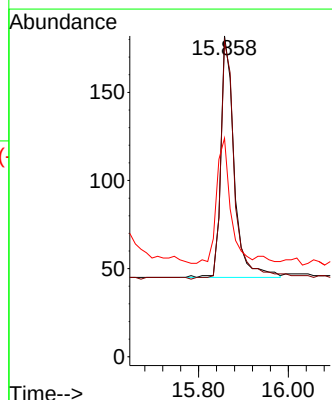
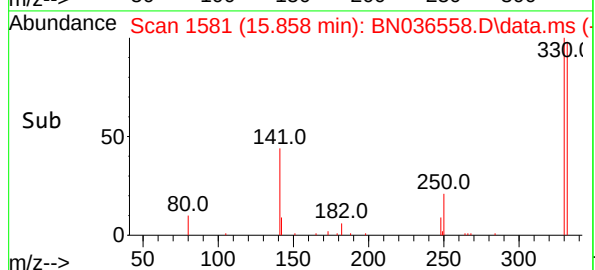
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025

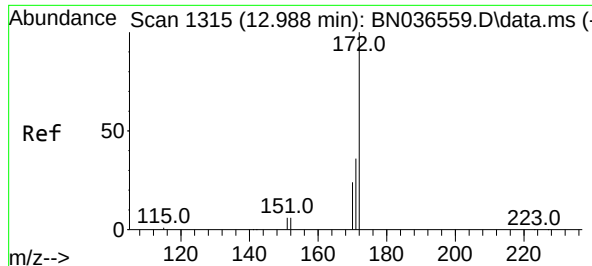


#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18



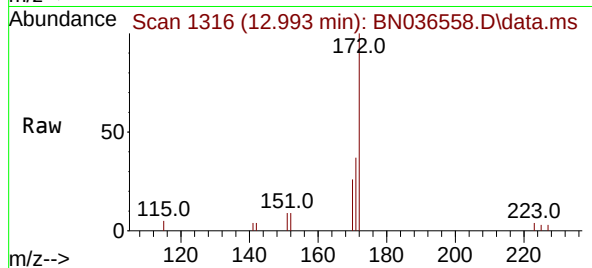
Tgt Ion:330 Resp: 282
Ion Ratio Lower Upper
330 100
332 103.5 75.2 112.8
141 53.9 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.170 ng
RT: 12.993 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

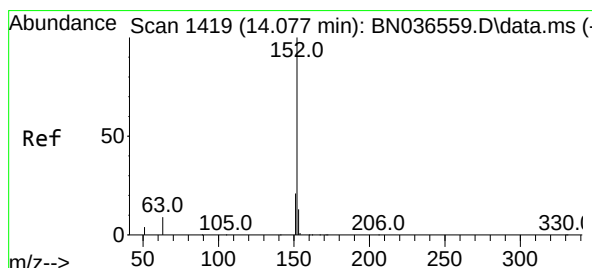
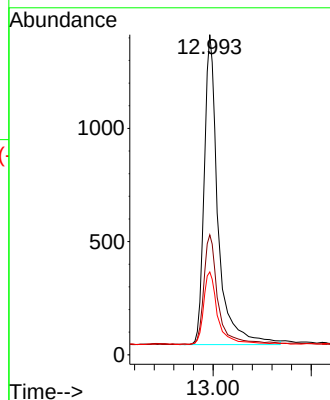
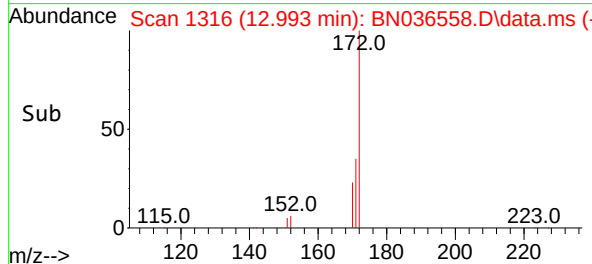
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:172 Resp: 348
Ion Ratio Lower Upper
172 100
171 37.5 29.5 44.3
170 25.9 20.2 30.4

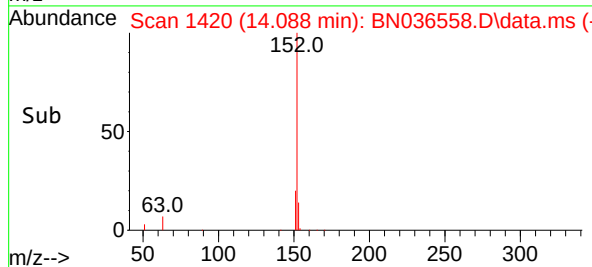
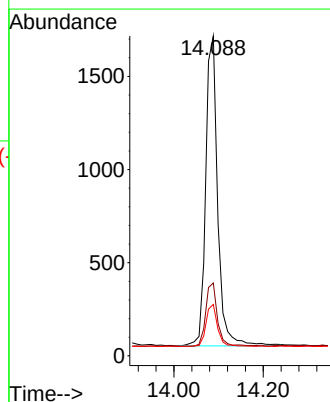
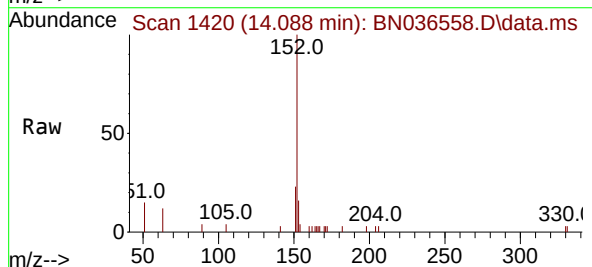
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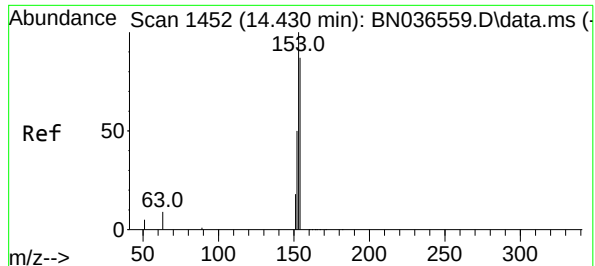
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#16
Acenaphthylene
Concen: 0.186 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

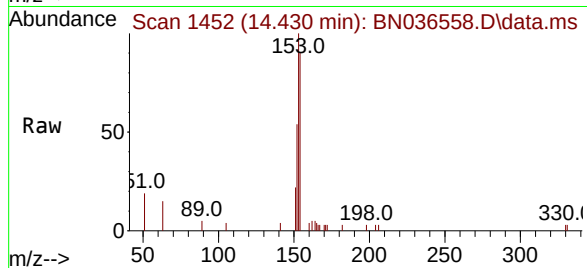
Tgt Ion:152 Resp: 3087
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.4
153 13.0 10.6 15.8





#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

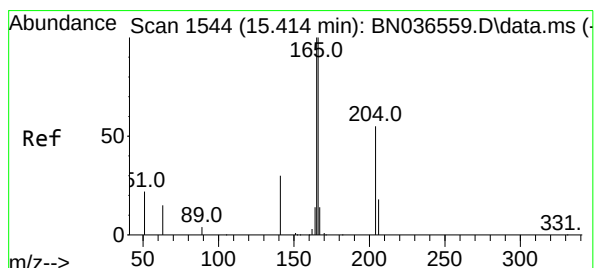
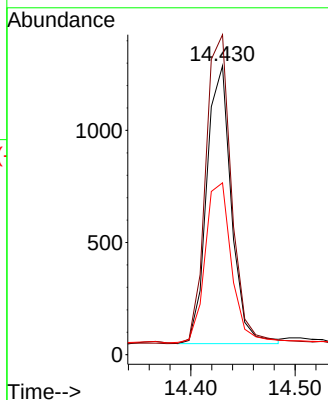
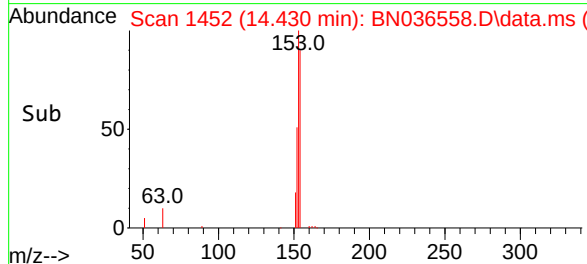
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 2038
Ion Ratio Lower Upper
154 100
153 117.8 94.1 141.1
152 63.1 49.8 74.6

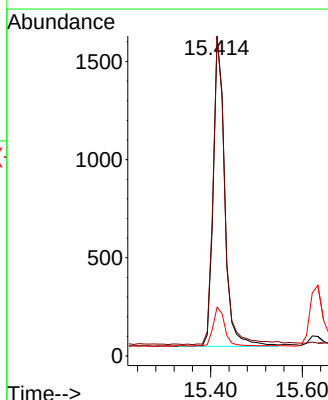
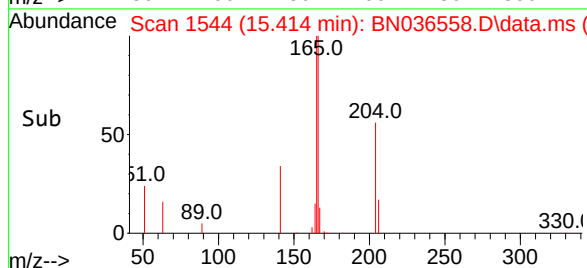
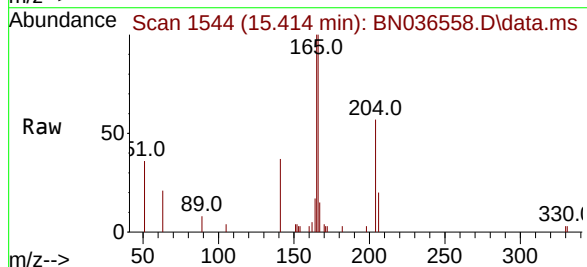
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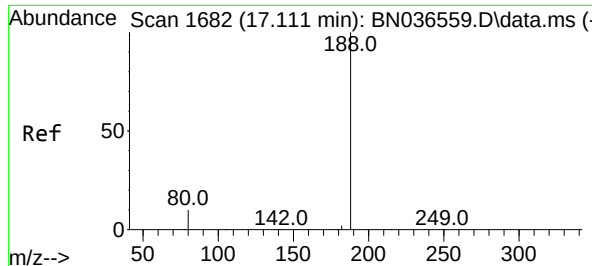
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:166 Resp: 2813
Ion Ratio Lower Upper
166 100
165 101.1 79.8 119.8
167 12.6 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

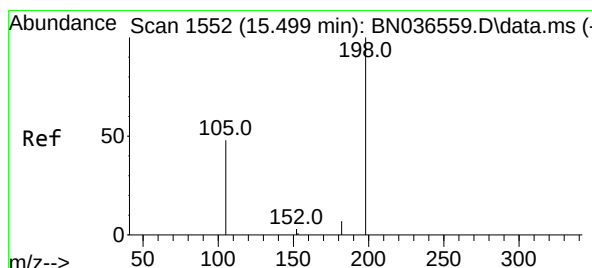
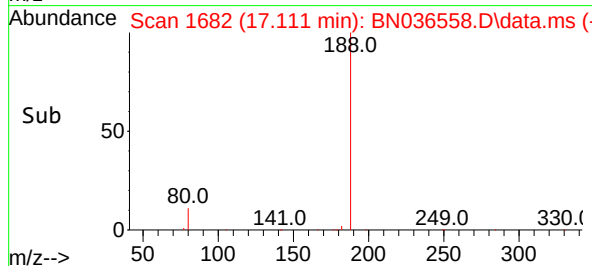
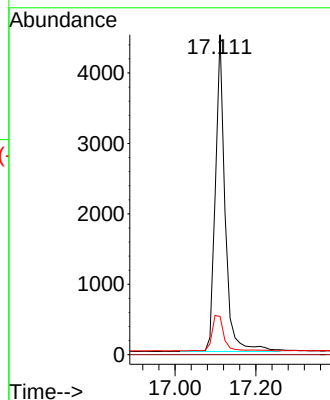
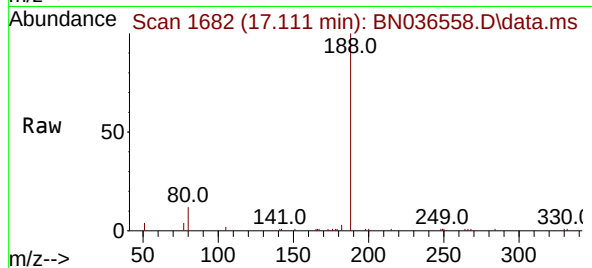
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	8.8	13.2

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Supervised By :Jagrut Upadhyay 03/11/2025

#20

4,6-Dinitro-2-methylphenol

Concen: 0.258 ng

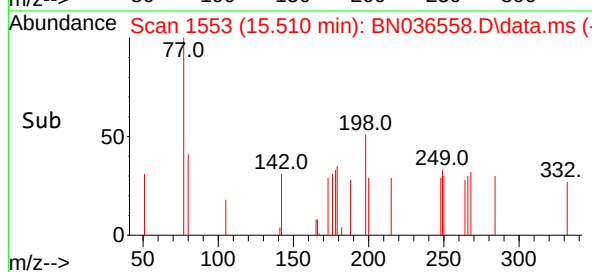
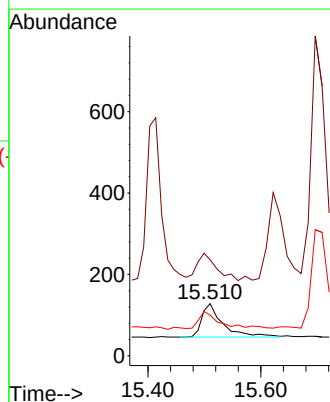
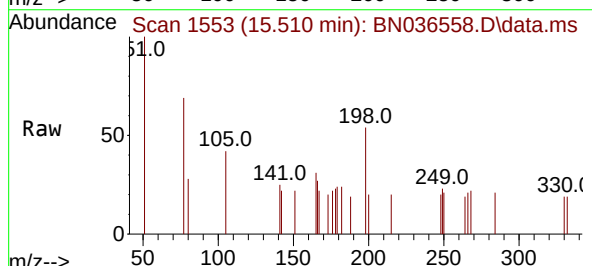
RT: 15.510 min Scan# 1553

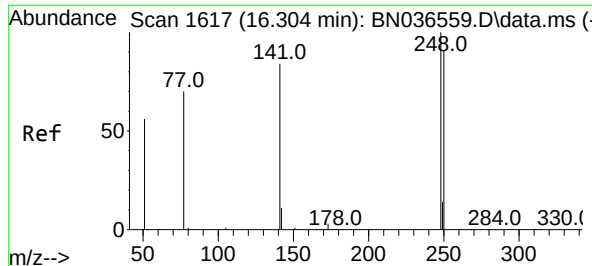
Delta R.T. 0.011 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

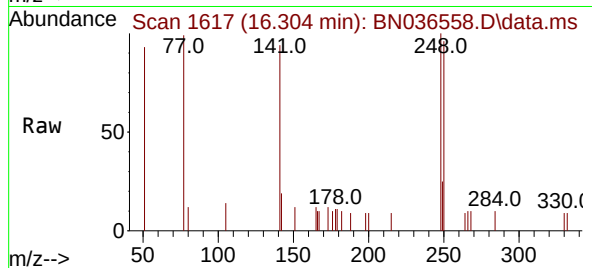
Tgt Ion	Ratio	Lower	Upper
198	100		
51	184.4	107.9	161.9#
105	78.1	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.181 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

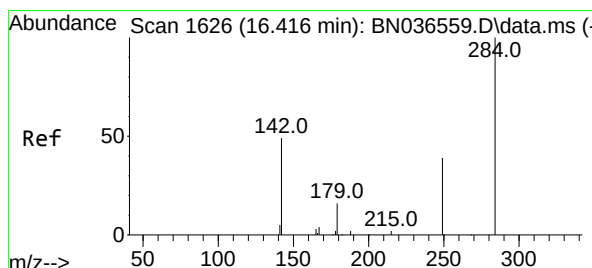
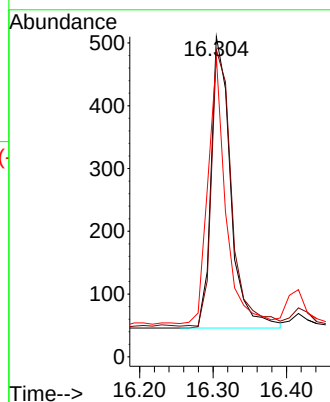
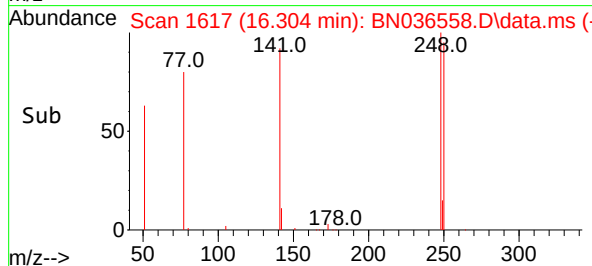
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:248 Resp: 85
Ion Ratio Lower Upper
248 100
250 95.9 73.0 109.6
141 93.7 68.6 103.0

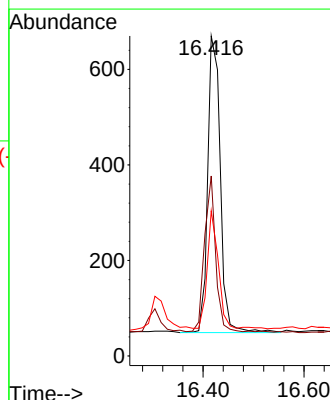
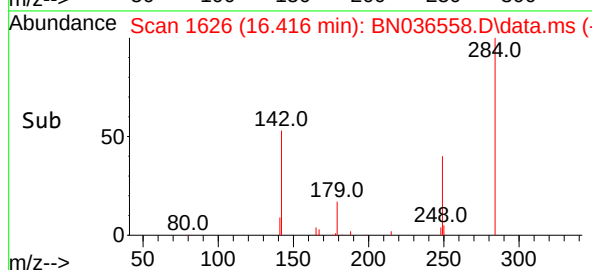
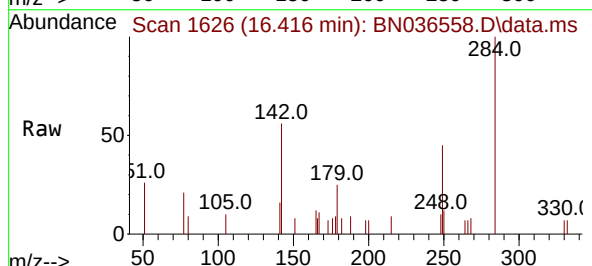
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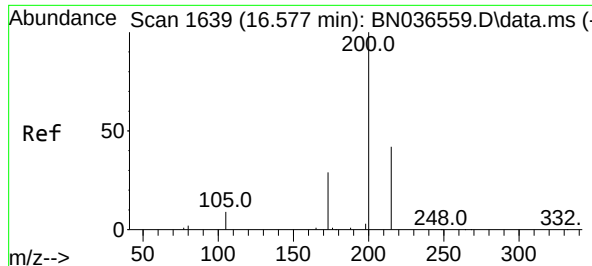
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:284 Resp: 1079
Ion Ratio Lower Upper
284 100
142 47.0 37.0 55.4
249 34.8 28.1 42.1





#23

Atrazine

Concen: 0.190 ng

RT: 16.578 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

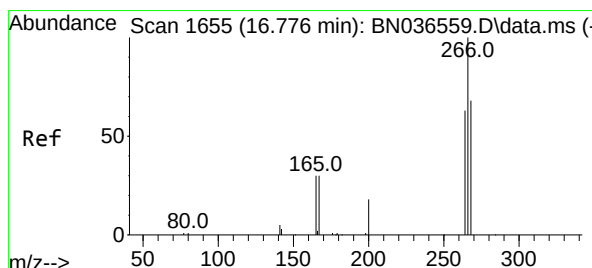
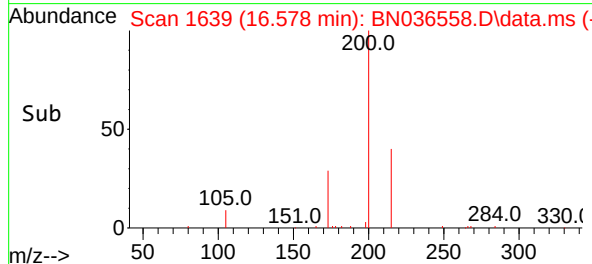
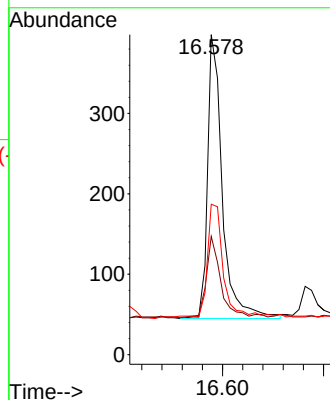
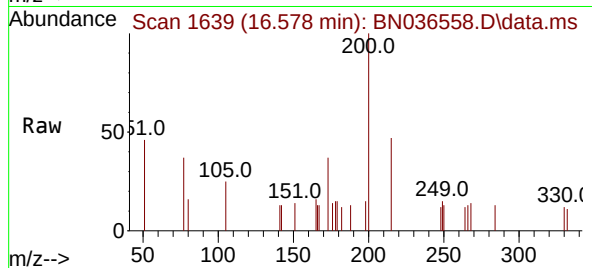
Tgt Ion:	200	Resp:	710
Ion Ratio	Lower	Upper	
200	100		
173	36.9	27.3	40.9
215	47.0	36.8	55.2

Manual Integrations

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Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#24

Pentachlorophenol

Concen: 0.168 ng

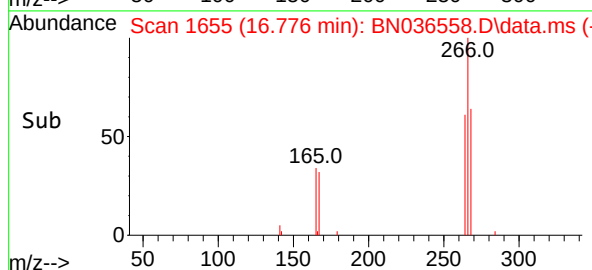
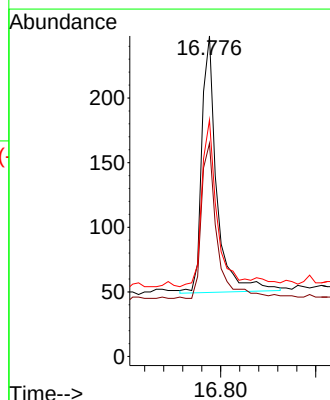
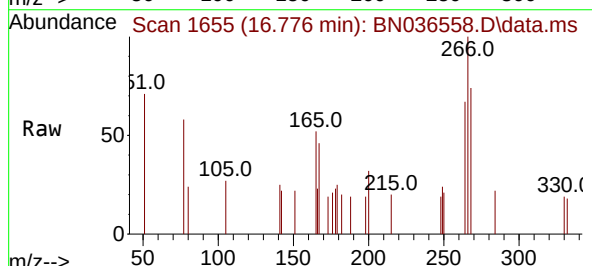
RT: 16.776 min Scan# 1655

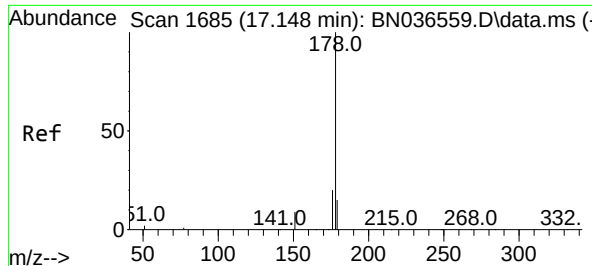
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

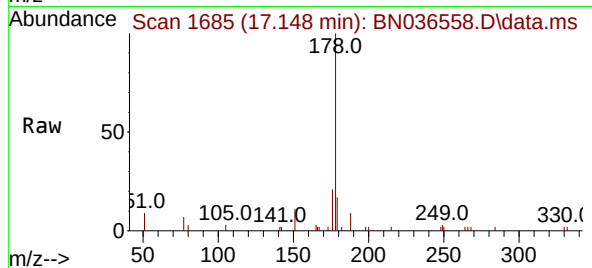
Tgt Ion:	266	Resp:	435
Ion Ratio	Lower	Upper	
266	100		
264	63.4	49.6	74.4
268	65.7	50.9	76.3





#25
Phenanthrene
Concen: 0.185 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

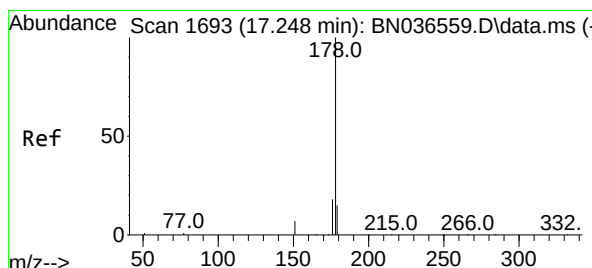
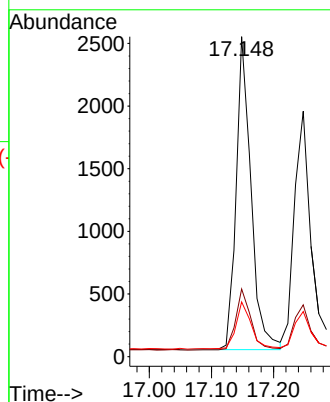
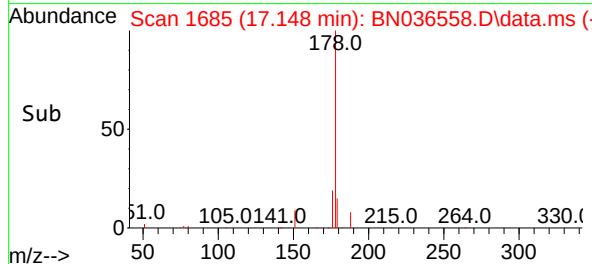
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:178 Resp: 417
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 15.5 12.2 18.4

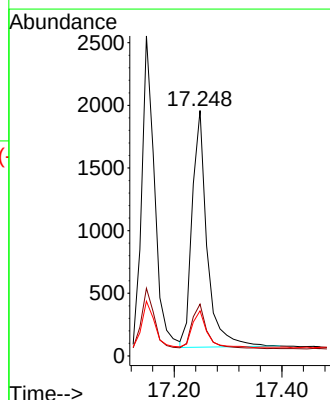
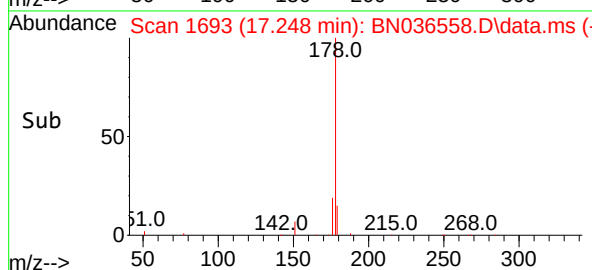
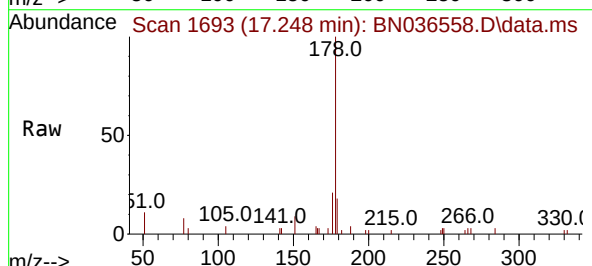
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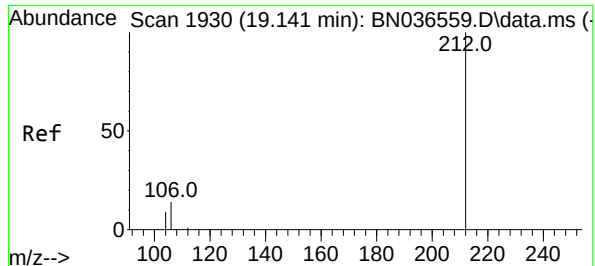
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#26
Anthracene
Concen: 0.179 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:178 Resp: 3645
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.1 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.186 ng

RT: 19.146 min Scan# 1931

Delta R.T. 0.005 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

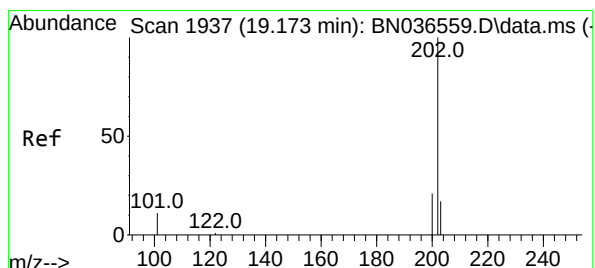
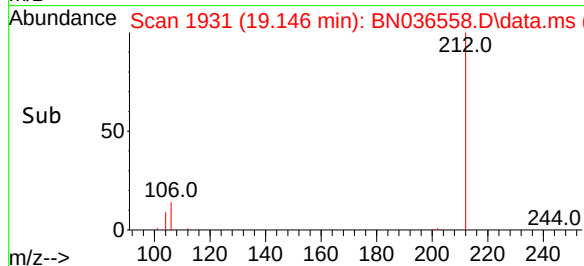
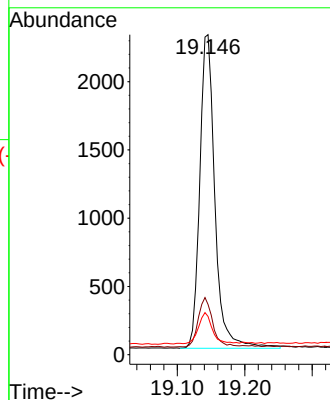
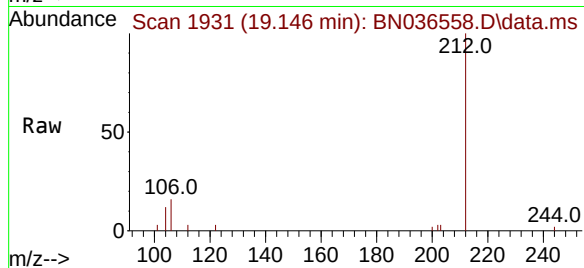
ClientSampleId :

SSTDIC0.2

Tgt Ion:	212	Resp:	358
Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.8	17.6
104	9.3	7.3	10.9

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Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#28

Fluoranthene

Concen: 0.184 ng

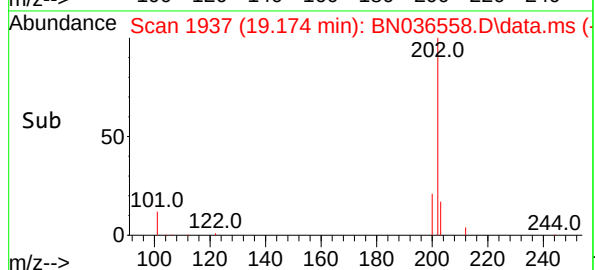
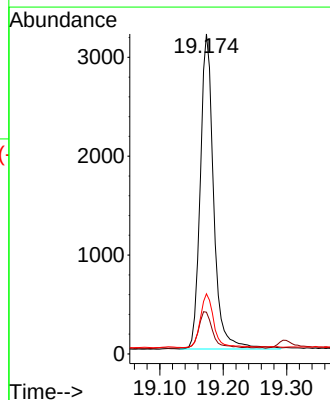
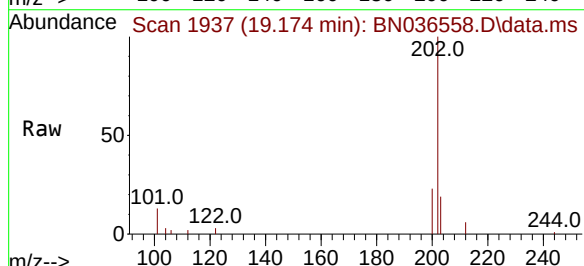
RT: 19.174 min Scan# 1937

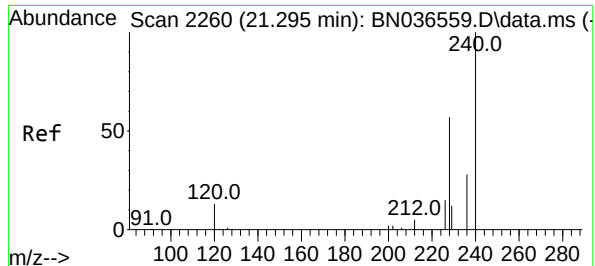
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:	202	Resp:	4666
Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.4	14.0
203	17.1	13.5	20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

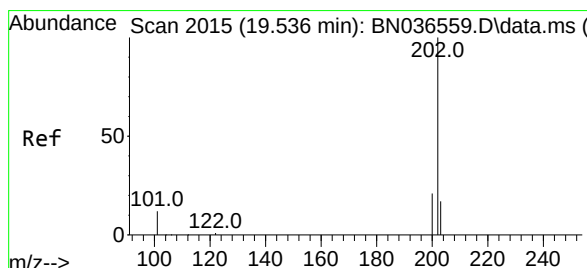
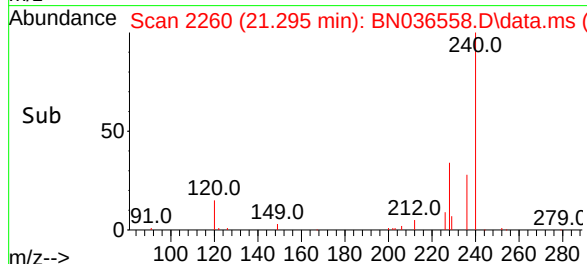
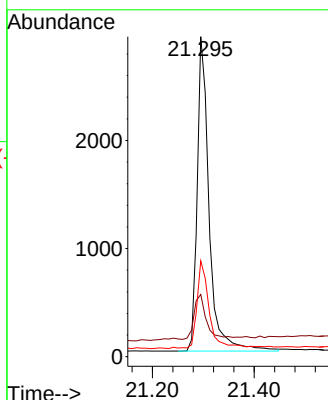
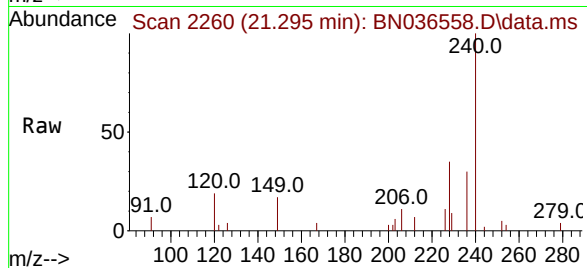
Tgt Ion:	240	Resp:	4730
Ion Ratio	Lower	Upper	
240	100		
120	19.5	14.6	22.0
236	29.9	24.1	36.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#30

Pyrene

Concen: 0.205 ng

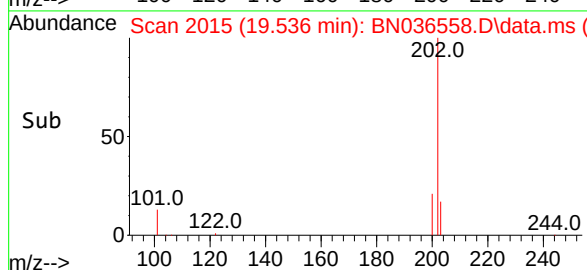
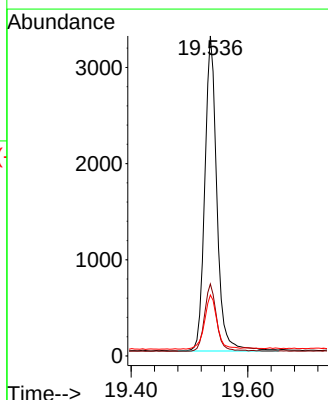
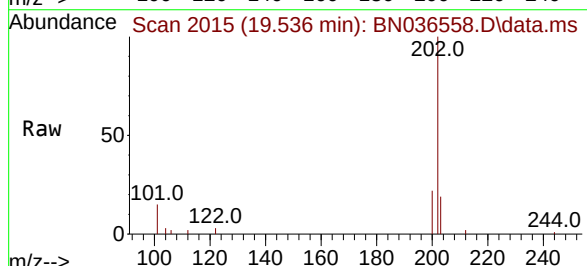
RT: 19.536 min Scan# 2015

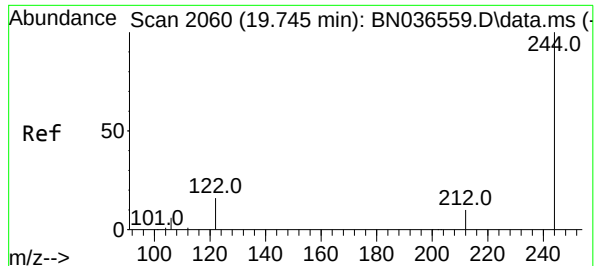
Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:	202	Resp:	4742
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.1	25.7
203	17.7	14.1	21.1





#31
Terphenyl-d14
Concen: 0.201 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

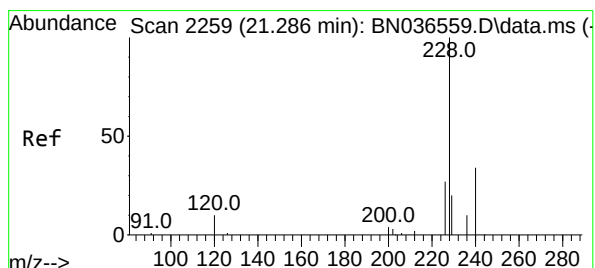
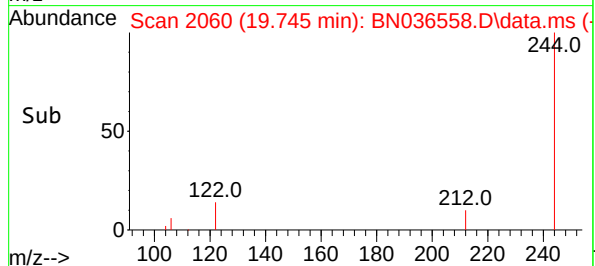
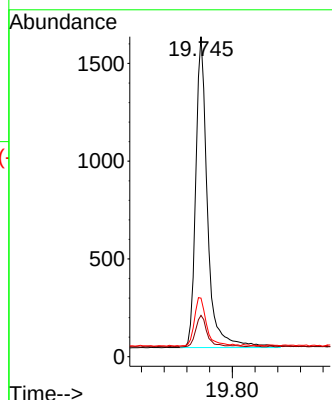
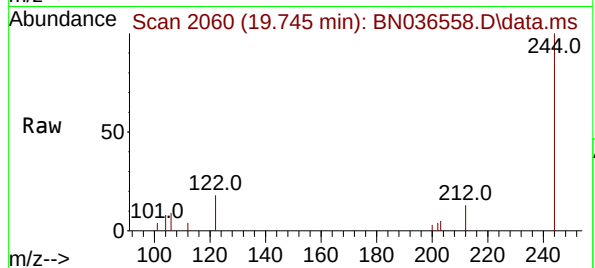
ClientSampleId :

SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.9	9.6	14.4
122	18.3	13.9	20.9

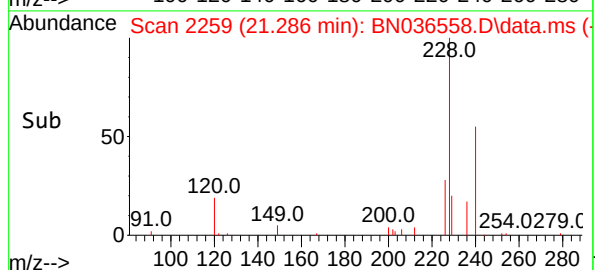
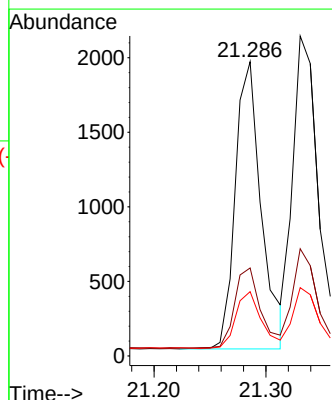
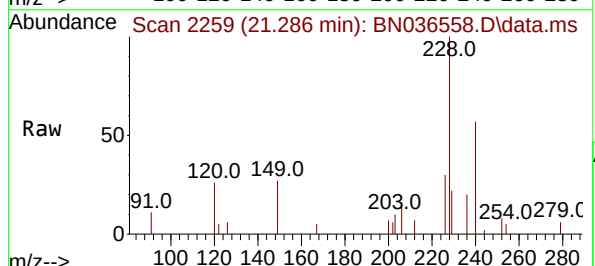
Manual Integrations
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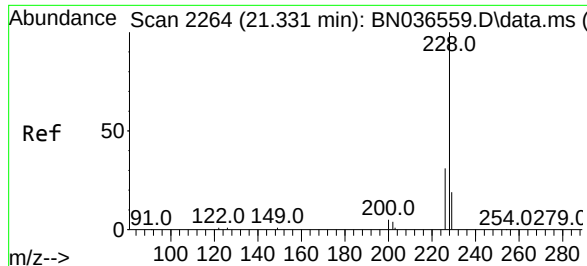
Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	22.5	33.7
229	21.9	16.6	25.0





#33

Chrysene

Concen: 0.199 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:228 Resp: 356

Ion Ratio Lower Upper

228 100

226 33.5 25.3 37.9

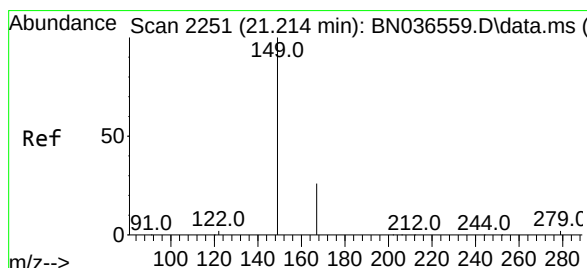
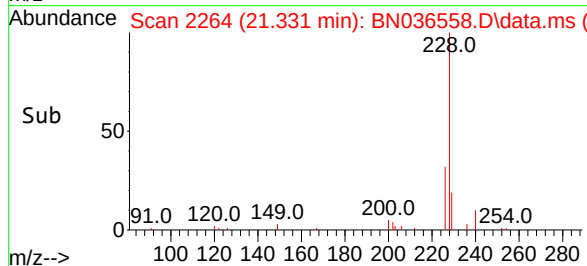
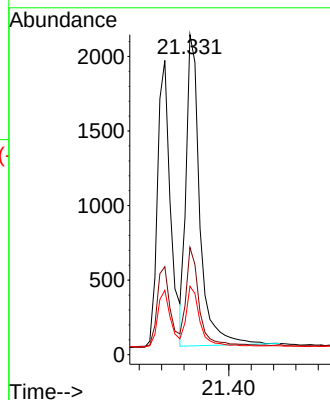
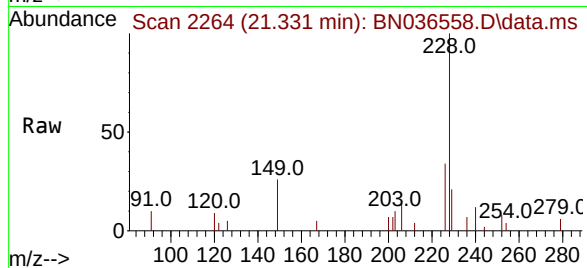
229 21.4 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.222 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

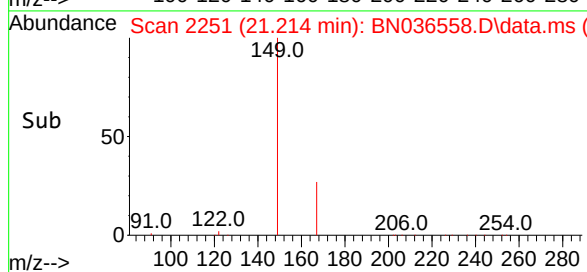
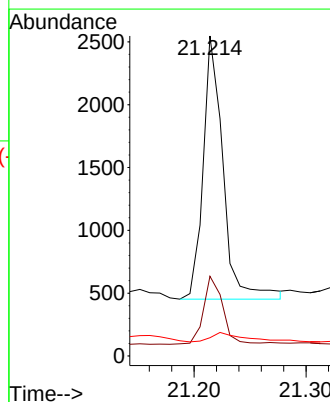
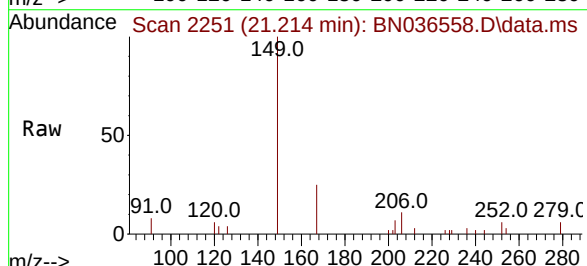
Tgt Ion:149 Resp: 2601

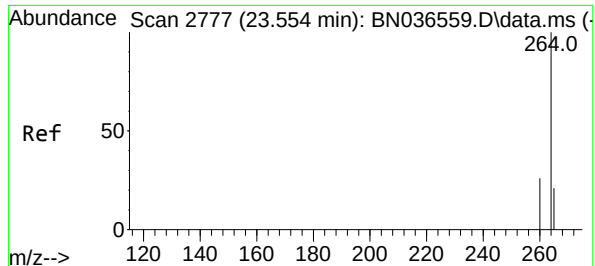
Ion Ratio Lower Upper

149 100

167 24.7 20.7 31.1

279 5.7 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

Tgt Ion:264 Resp: 424

Ion Ratio Lower Upper

264 100

260 26.8 22.6 33.8

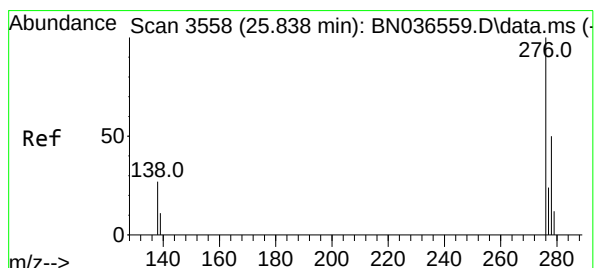
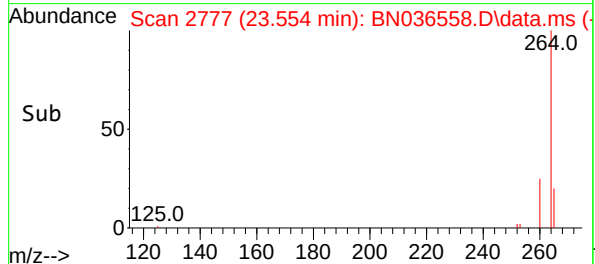
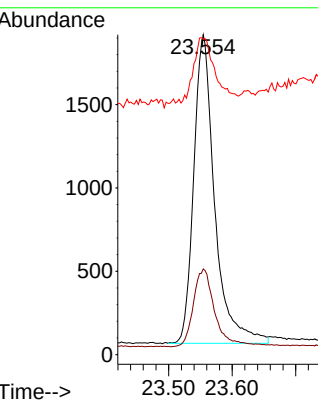
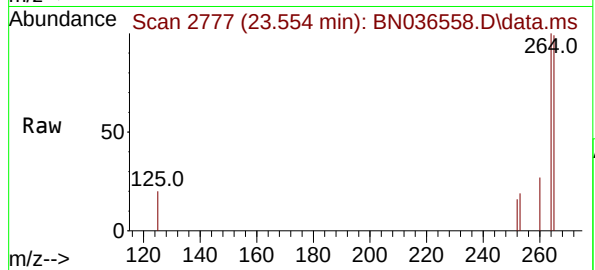
265 98.5 88.1 132.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.182 ng

RT: 25.844 min Scan# 3560

Delta R.T. 0.006 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

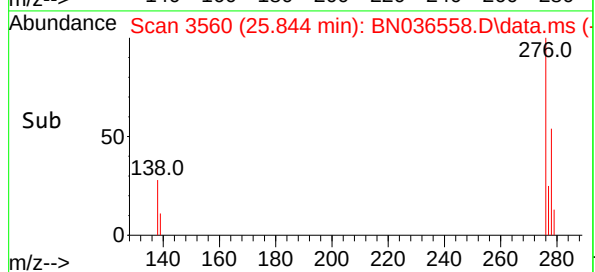
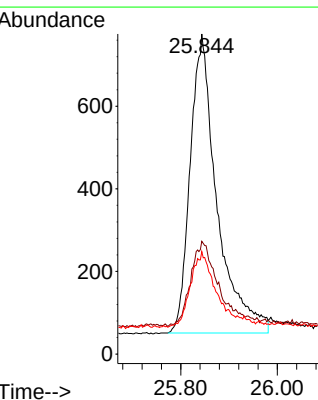
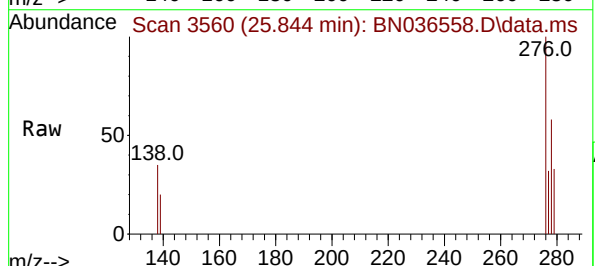
Tgt Ion:276 Resp: 2790

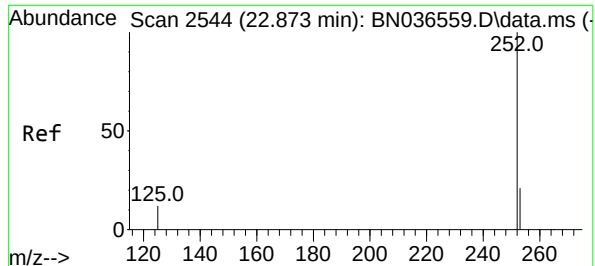
Ion Ratio Lower Upper

276 100

138 29.1 23.4 35.2

277 23.4 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.187 ng

RT: 22.876 min Scan# 2544

Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

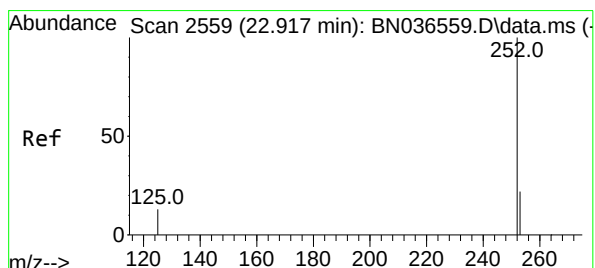
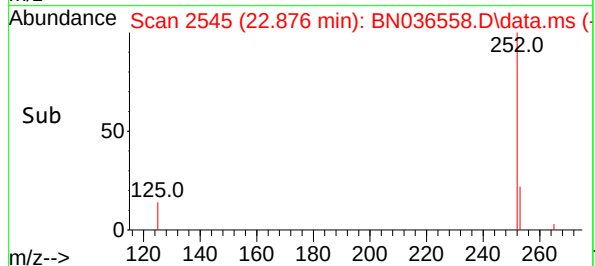
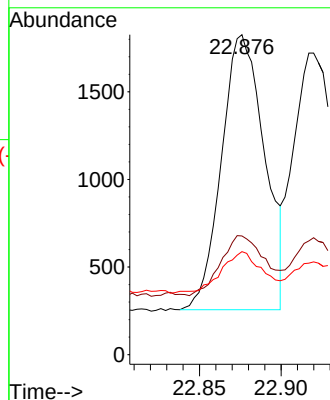
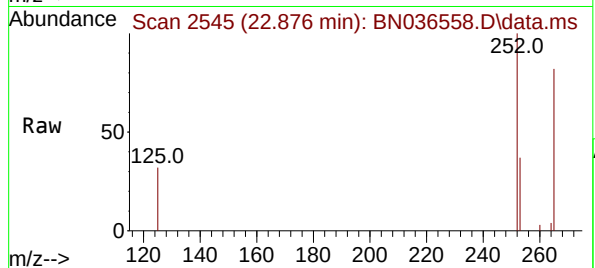
Tgt Ion:252 Resp: 288

Ion	Ratio	Lower	Upper
252	100		
253	37.1	23.9	35.9
125	32.2	17.4	26.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025
Supervised By :Jagrut Upadhyay 03/11/2025



#38

Benzo(k)fluoranthene

Concen: 0.183 ng

RT: 22.917 min Scan# 2559

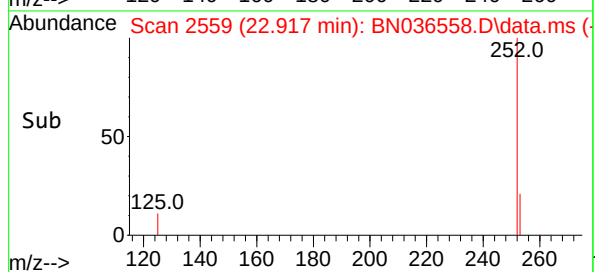
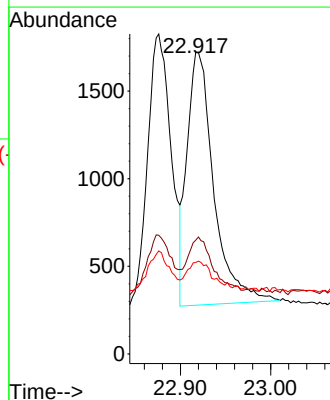
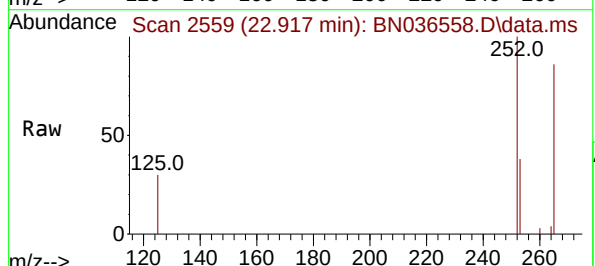
Delta R.T. 0.000 min

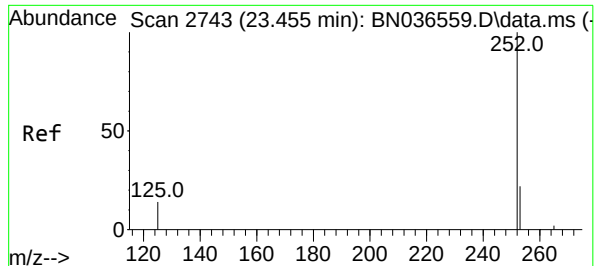
Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 2962

Ion	Ratio	Lower	Upper
252	100		
253	37.7	24.6	36.8
125	30.3	17.8	26.8





#39

Benzo(a)pyrene

Concen: 0.188 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

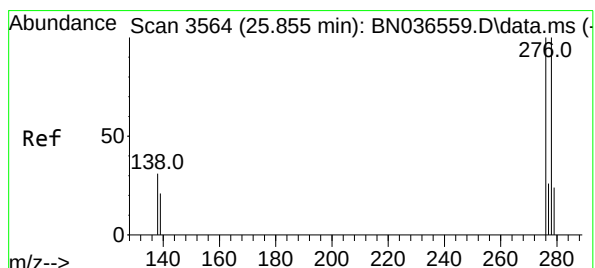
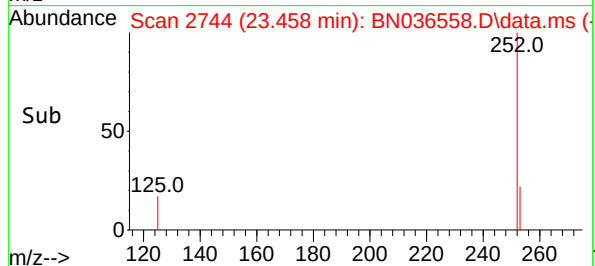
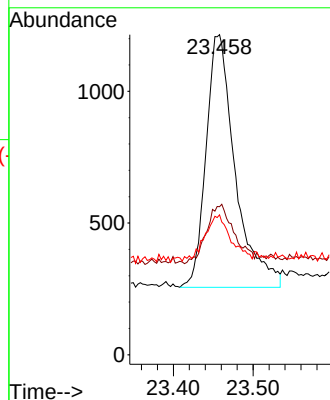
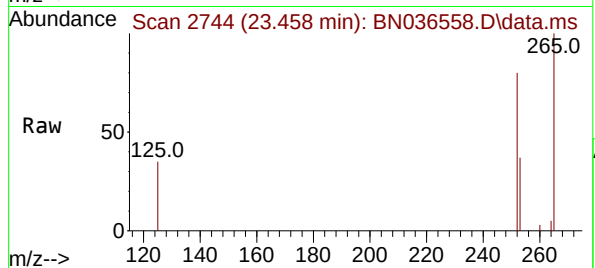
Tgt Ion:	252	Resp:	244
Ion Ratio	Lower	Upper	
252	100		
253	46.3	27.8	41.8
125	43.7	22.7	34.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.175 ng

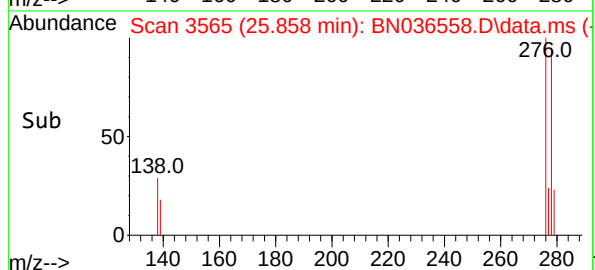
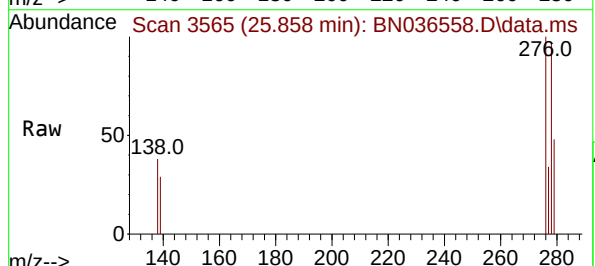
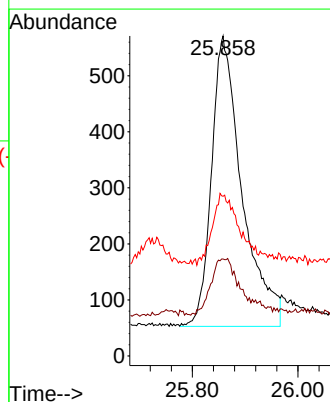
RT: 25.858 min Scan# 3565

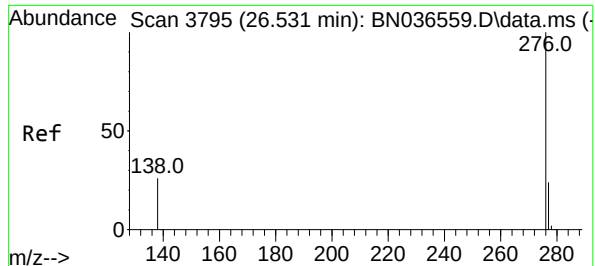
Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Tgt Ion:	278	Resp:	2080
Ion Ratio	Lower	Upper	
278	100		
139	30.3	20.8	31.2
279	49.9	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.189 ng

RT: 26.536 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036558.D

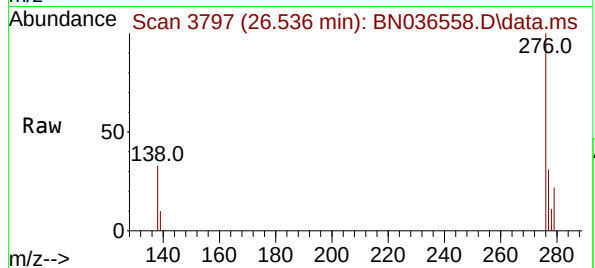
Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion: 276 Resp: 257

Ion Ratio Lower Upper

276 100

277 31.2 22.2 33.4

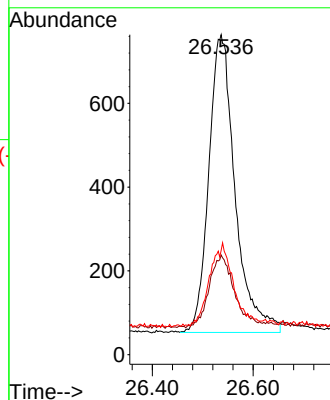
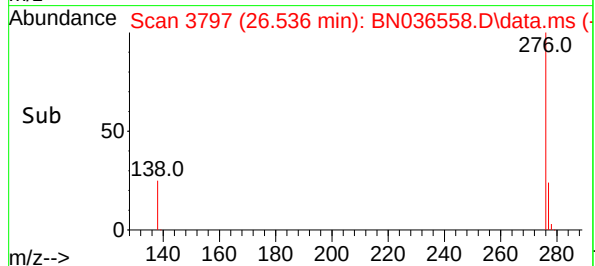
138 32.6 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/11/2025

Supervised By :Jagrut Upadhyay 03/11/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036559.D
 Acq On : 10 Mar 2025 12:54
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Mar 10 16:01:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

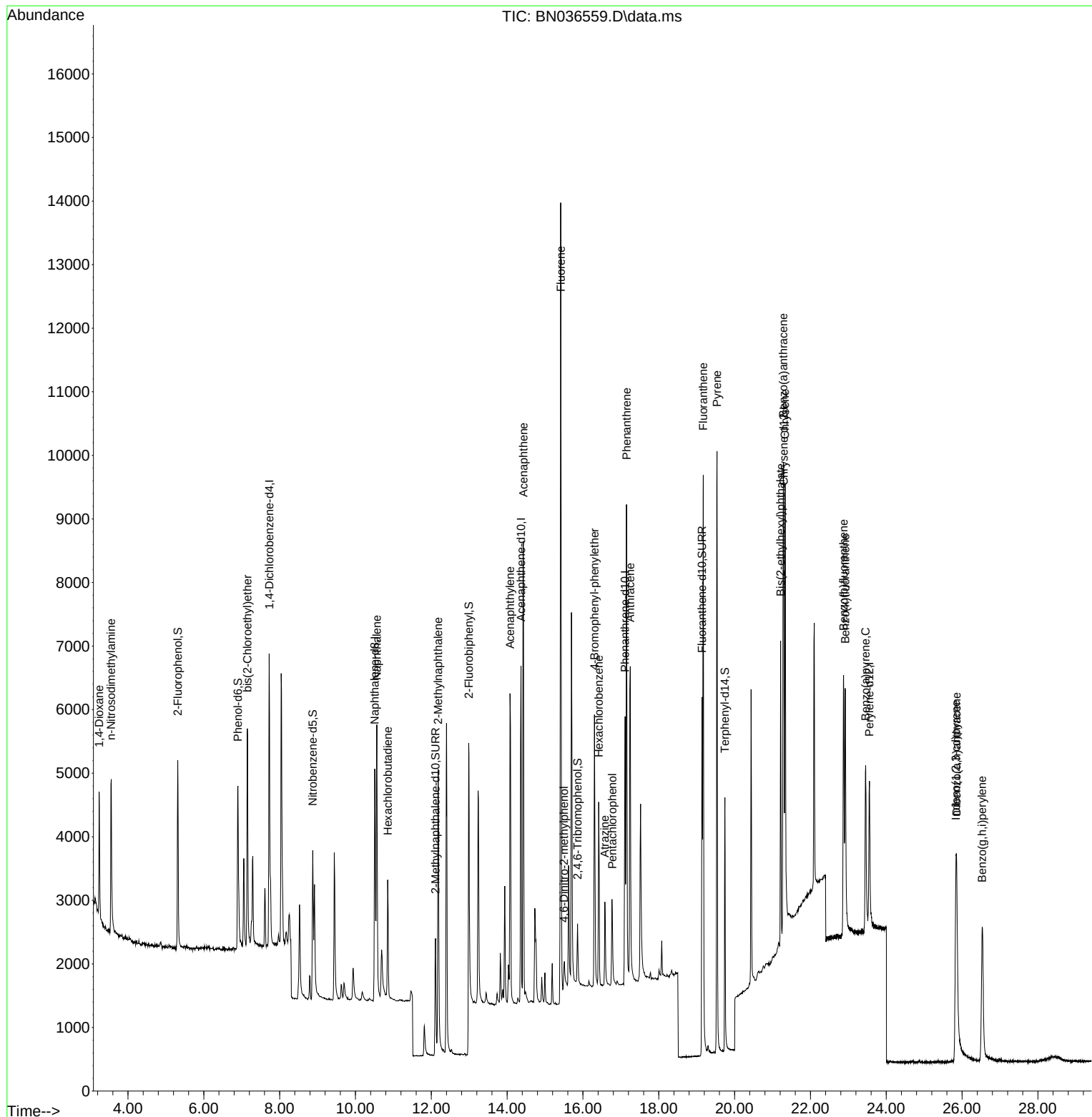
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2207	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5091	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3026	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6005	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4110	0.400	ng	0.00
35) Perylene-d12	23.554	264	3539	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2178	0.423	ng	0.00
5) Phenol-d6	6.901	99	2489	0.392	ng	0.00
8) Nitrobenzene-d5	8.875	82	2113	0.382	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3085	0.407	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	567	0.413	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	7257	0.412	ng	0.00
27) Fluoranthene-d10	19.141	212	6699	0.435	ng	0.00
31) Terphenyl-d14	19.745	244	4226	0.429	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.239	88	1099	0.449	ng	100
3) n-Nitrosodimethylamine	3.550	42	2063	0.417	ng	100
6) bis(2-Chloroethyl)ether	7.154	93	2610	0.397	ng	100
9) Naphthalene	10.562	128	6139	0.410	ng	100
10) Hexachlorobutadiene	10.850	225	1498	0.425	ng	# 100
12) 2-Methylnaphthalene	12.182	142	3897	0.409	ng	100
16) Acenaphthylene	14.077	152	5865	0.411	ng	100
17) Acenaphthene	14.430	154	3877	0.415	ng	100
18) Fluorene	15.414	166	5338	0.422	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	462	0.447	ng	100
21) 4-Bromophenyl-phenylether	16.304	248	1644	0.437	ng	100
22) Hexachlorobenzene	16.416	284	2018	0.444	ng	100
23) Atrazine	16.577	200	1279	0.424	ng	100
24) Pentachlorophenol	16.776	266	821	0.396	ng	100
25) Phenanthrene	17.148	178	7786	0.432	ng	100
26) Anthracene	17.248	178	6886	0.424	ng	100
28) Fluoranthene	19.173	202	8717	0.431	ng	100
30) Pyrene	19.536	202	8759	0.436	ng	100
32) Benzo(a)anthracene	21.286	228	5908	0.413	ng	100
33) Chrysene	21.331	228	6617	0.424	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	4291	0.422	ng	100
36) Indeno(1,2,3-cd)pyrene	25.838	276	5470	0.428	ng	100
37) Benzo(b)fluoranthene	22.873	252	5475	0.425	ng	100
38) Benzo(k)fluoranthene	22.917	252	5732	0.424	ng	100
39) Benzo(a)pyrene	23.455	252	4612	0.425	ng	100
40) Dibenzo(a,h)anthracene	25.855	278	4117	0.414	ng	100
41) Benzo(g,h,i)perylene	26.531	276	4891	0.430	ng	100

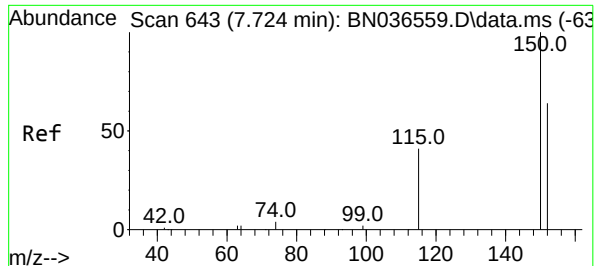
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036559.D
Acq On : 10 Mar 2025 12:54
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Mar 10 16:01:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

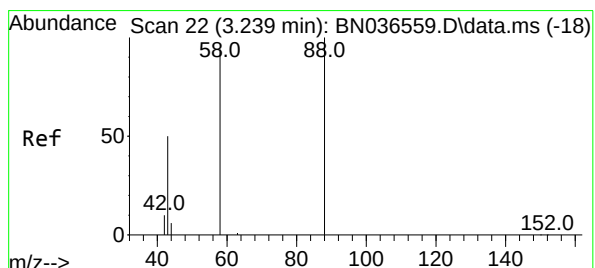
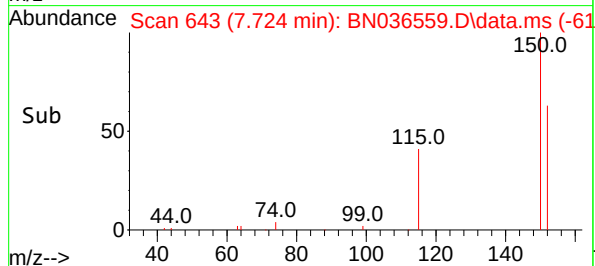
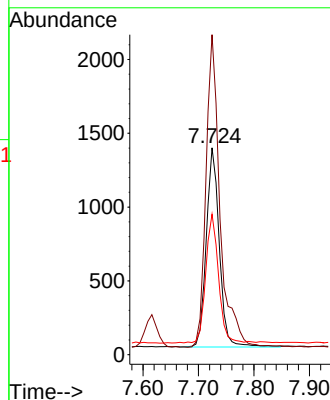
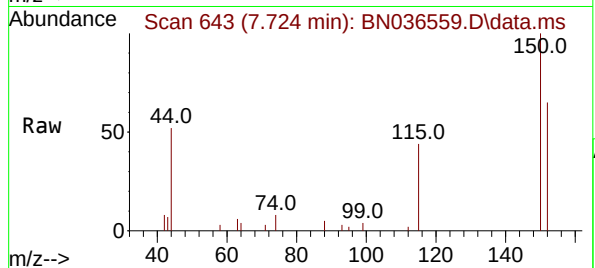




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

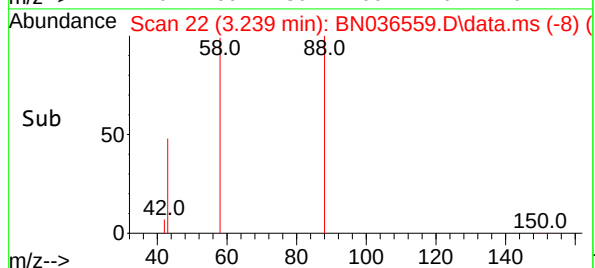
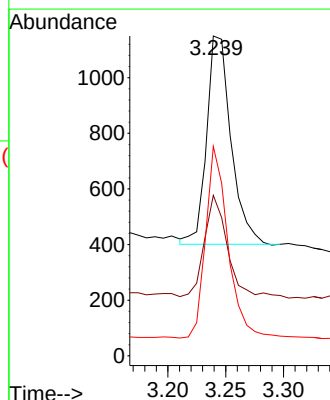
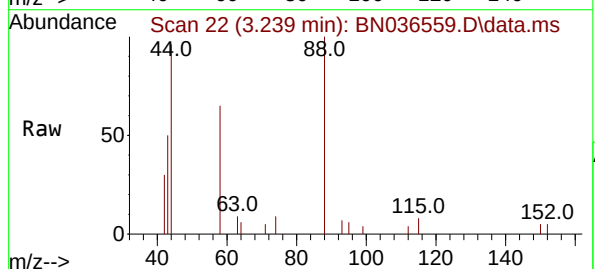
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

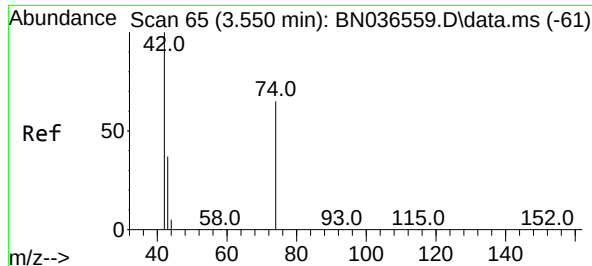
Tgt Ion:152 Resp: 2207
Ion Ratio Lower Upper
152 100
150 154.6 123.7 185.5
115 67.9 54.3 81.5



#2
1,4-Dioxane
Concen: 0.449 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 88 Resp: 1099
Ion Ratio Lower Upper
88 100
43 47.3 37.8 56.8
58 84.3 67.4 101.2

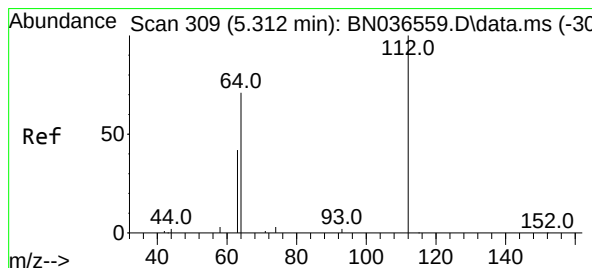
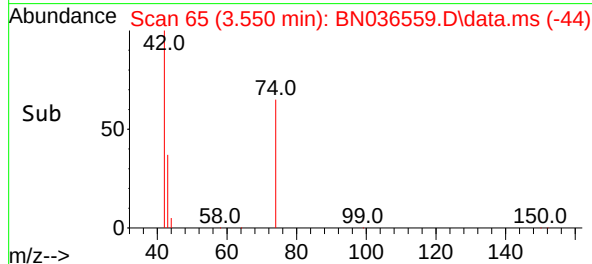
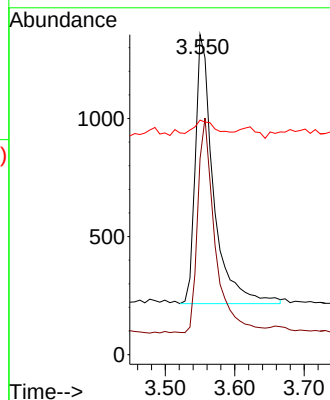
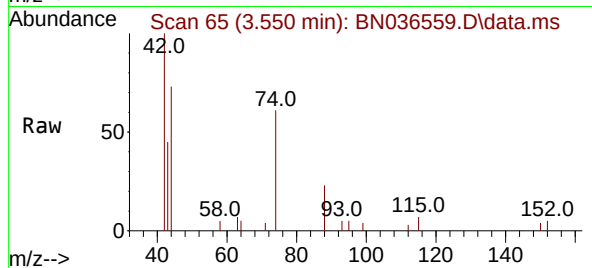




#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

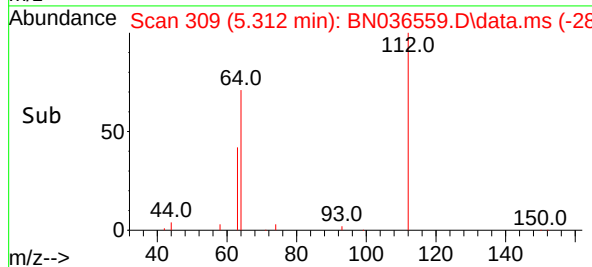
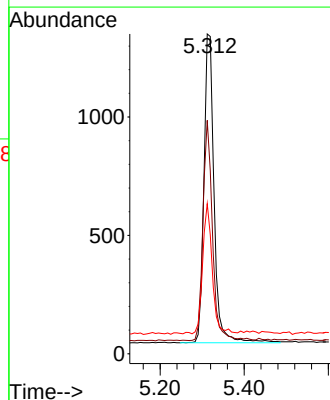
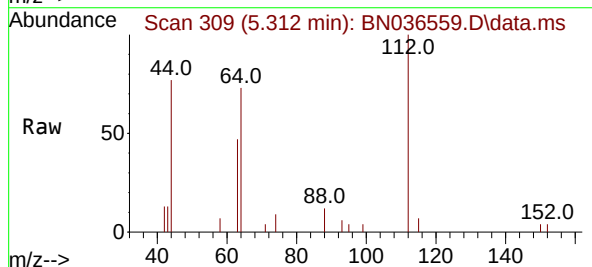
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

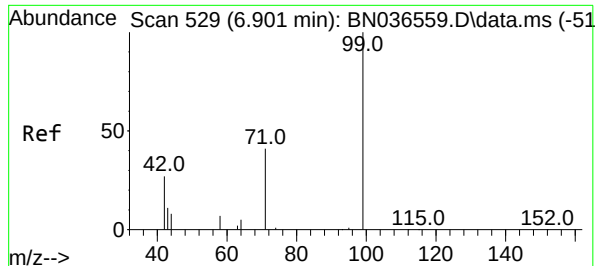
Tgt Ion: 42 Resp: 2063
Ion Ratio Lower Upper
42 100
74 75.7 60.6 90.8
44 7.9 6.3 9.5



#4
2-Fluorophenol
Concen: 0.423 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 112 Resp: 2178
Ion Ratio Lower Upper
112 100
64 66.4 53.1 79.7
63 39.8 31.8 47.8

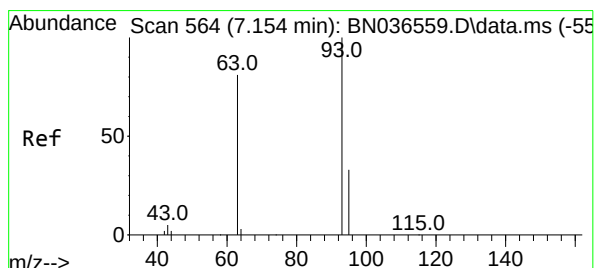
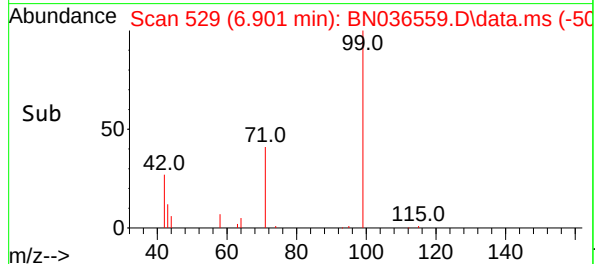
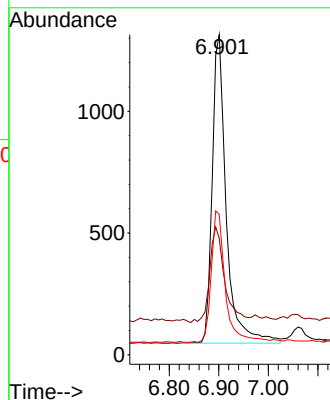
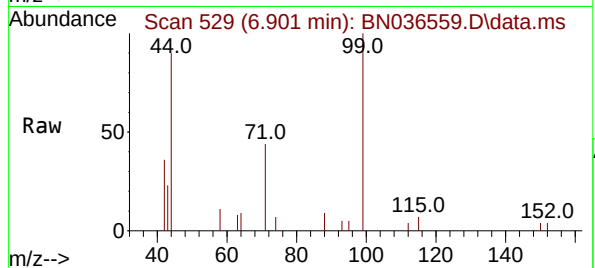




#5
Phenol-d6
Concen: 0.392 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

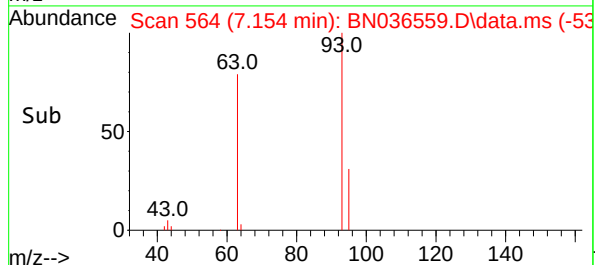
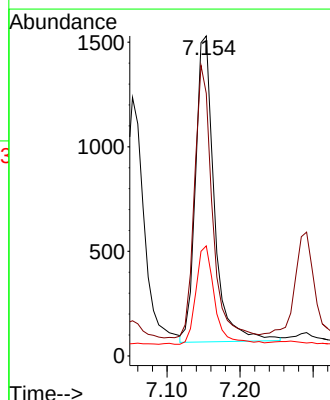
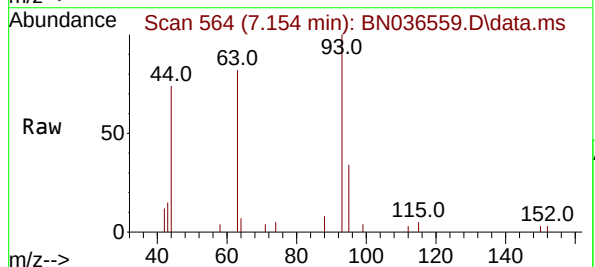
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

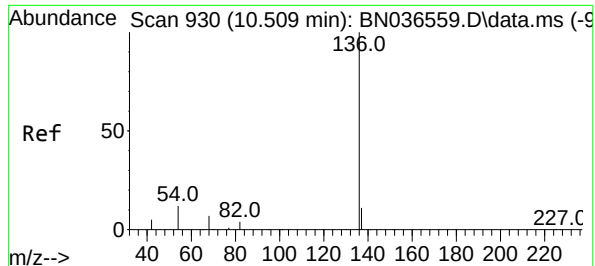
Tgt Ion: 99 Resp: 2489
Ion Ratio Lower Upper
99 100
42 33.1 26.5 39.7
71 42.6 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion: 93 Resp: 2610
Ion Ratio Lower Upper
93 100
63 84.6 67.7 101.5
95 32.0 25.6 38.4

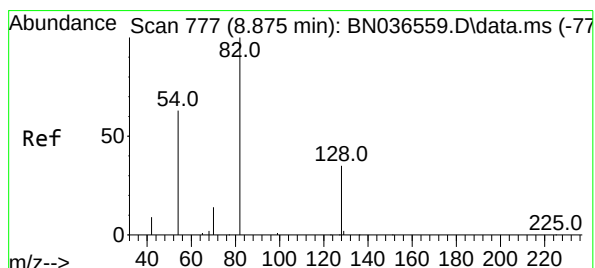
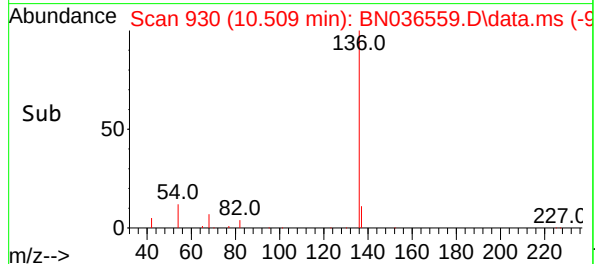
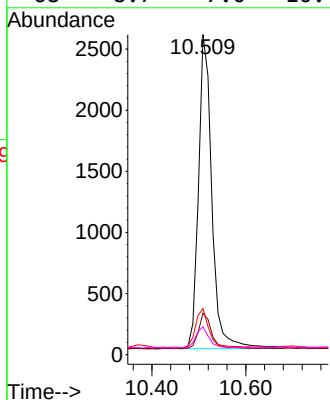
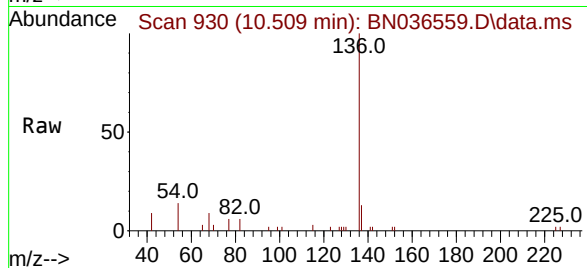




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

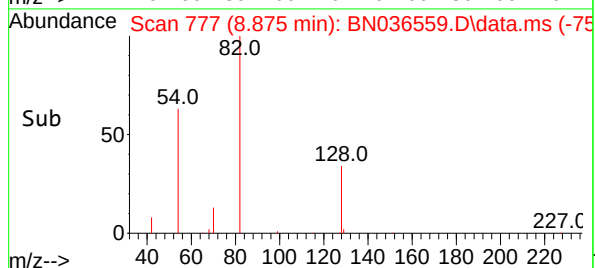
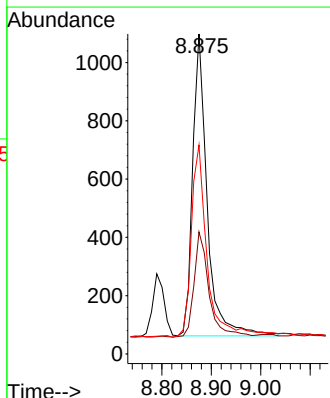
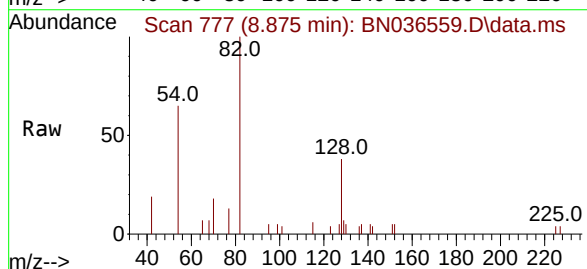
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

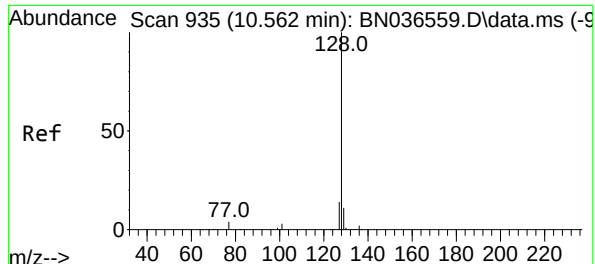
Tgt Ion:	136	Resp:	5091
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.3	15.5
54	14.4	11.5	17.3
68	8.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:	82	Resp:	2113
Ion	Ratio	Lower	Upper
82	100		
128	38.2	30.6	45.8
54	65.3	52.2	78.4





#9

Naphthalene

Concen: 0.410 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

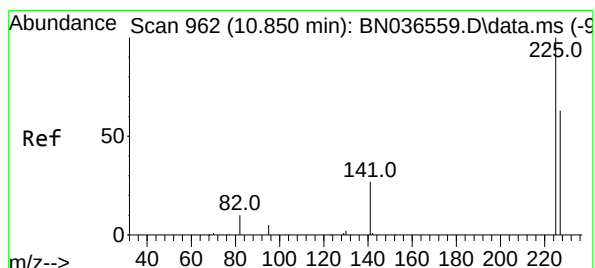
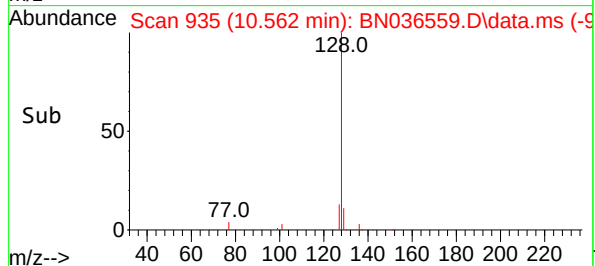
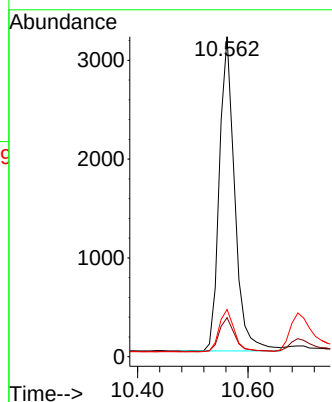
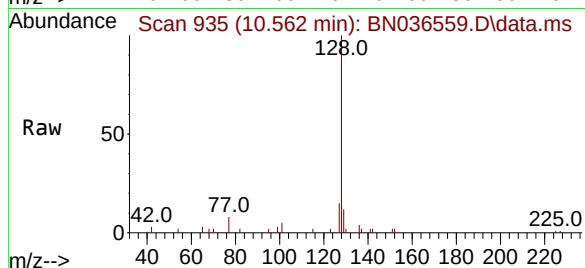
Tgt Ion:128 Resp: 6139

Ion Ratio Lower Upper

128 100

129 12.2 9.8 14.6

127 14.8 11.8 17.8



#10

Hexachlorobutadiene

Concen: 0.425 ng

RT: 10.850 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

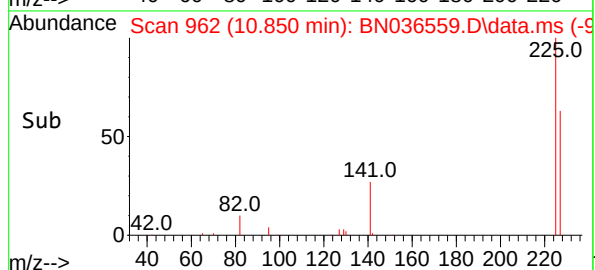
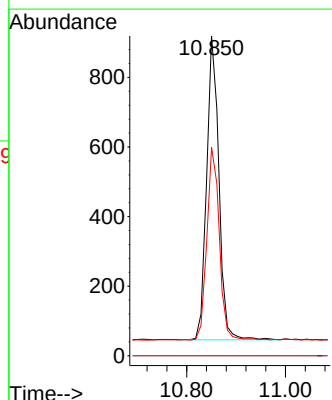
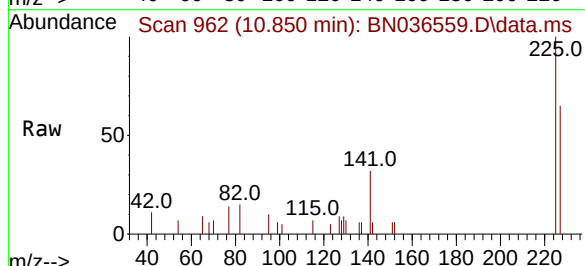
Tgt Ion:225 Resp: 1498

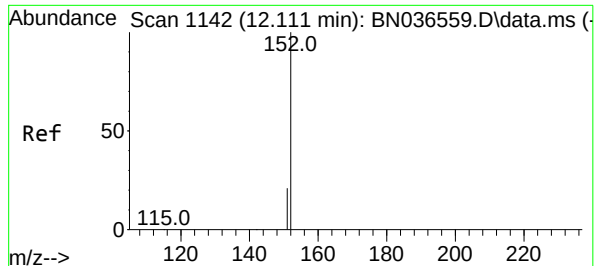
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.8 51.8 77.8

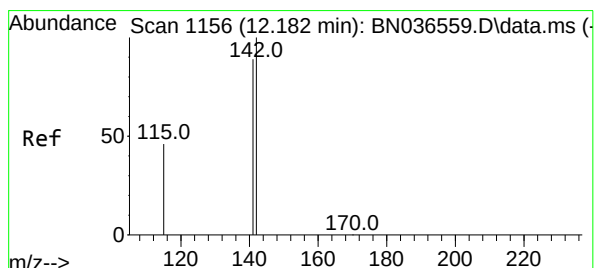
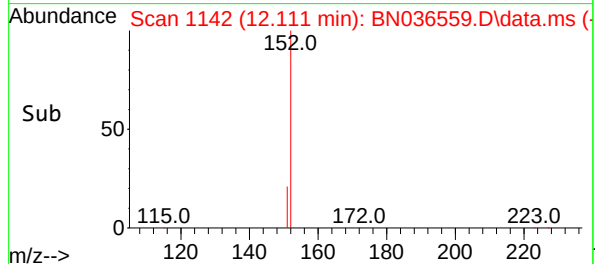
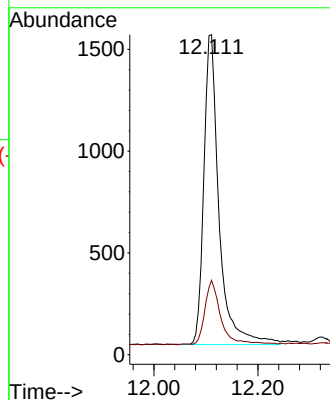
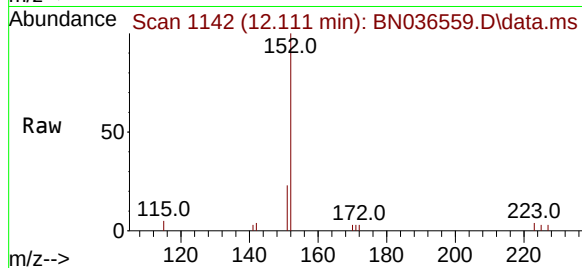




#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

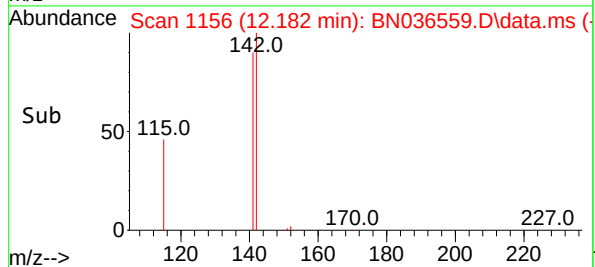
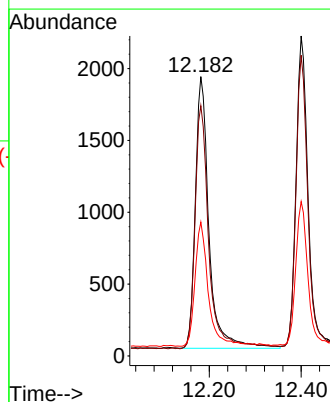
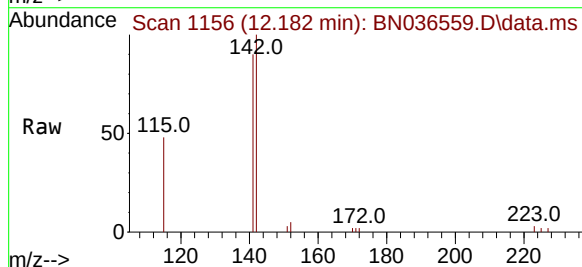
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

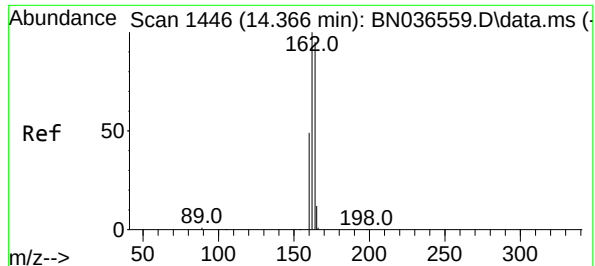
Tgt Ion:152 Resp: 3085
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.409 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:142 Resp: 3897
Ion Ratio Lower Upper
142 100
141 89.6 71.7 107.5
115 47.9 38.3 57.5

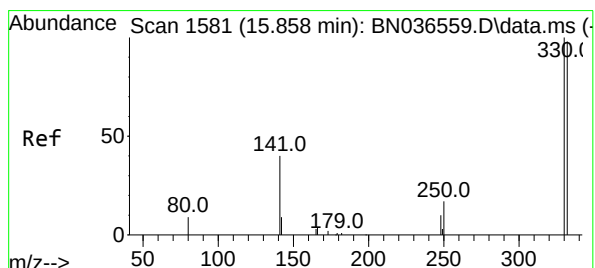
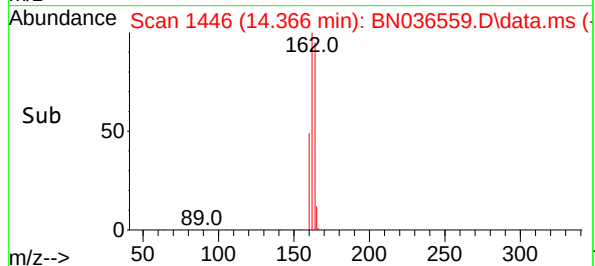
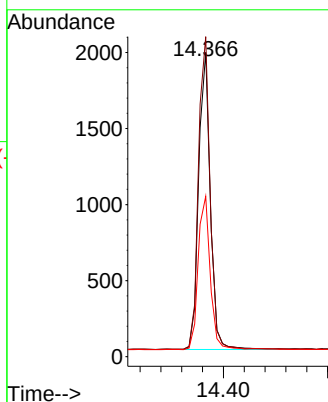
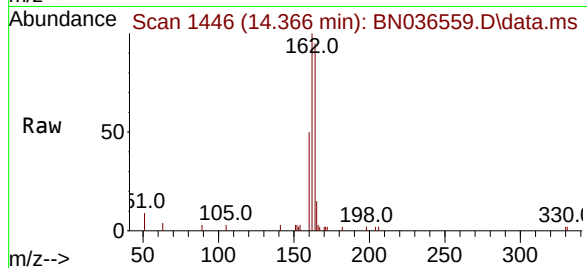




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

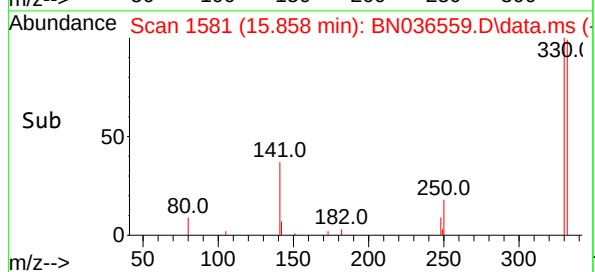
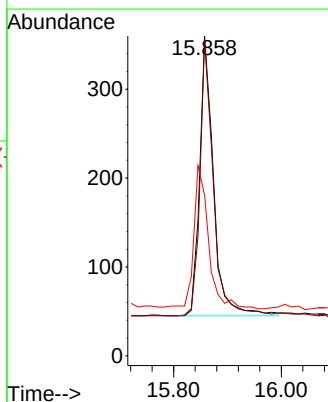
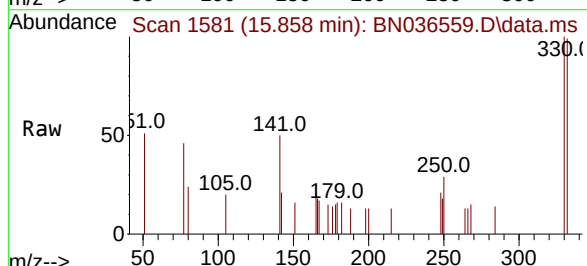
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

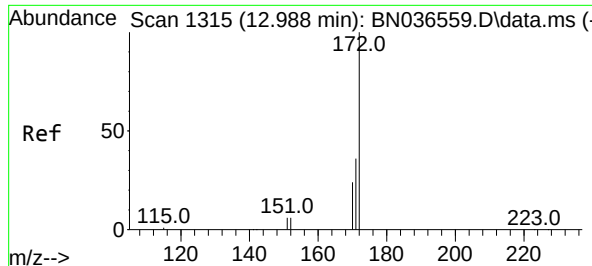
Tgt Ion:164 Resp: 3026
Ion Ratio Lower Upper
164 100
162 105.2 84.2 126.2
160 52.7 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:330 Resp: 567
Ion Ratio Lower Upper
330 100
332 94.0 75.2 112.8
141 54.3 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 0.412 ng

RT: 12.988 min Scan# 1315

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

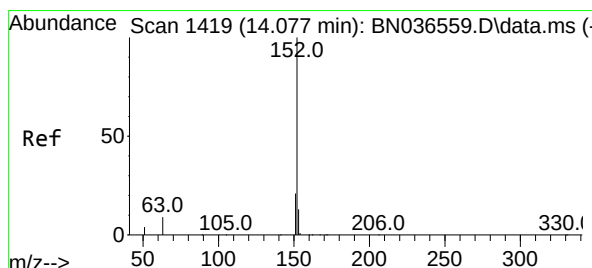
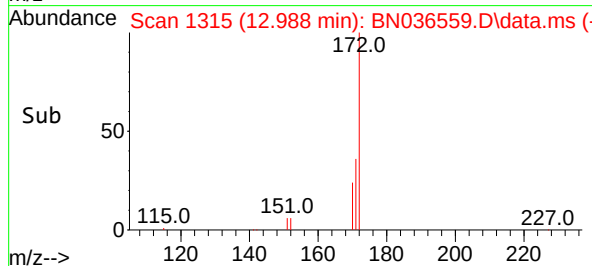
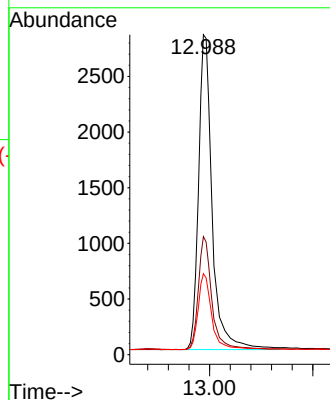
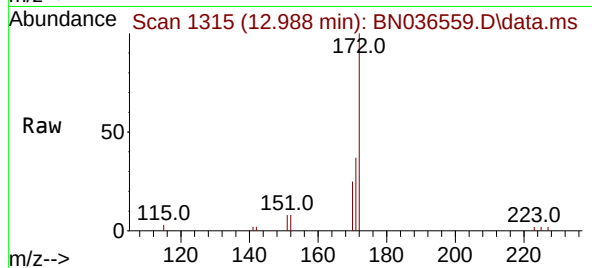
Tgt Ion:172 Resp: 7257

Ion Ratio Lower Upper

172 100

171 36.9 29.5 44.3

170 25.3 20.2 30.4



#16

Acenaphthylene

Concen: 0.411 ng

RT: 14.077 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

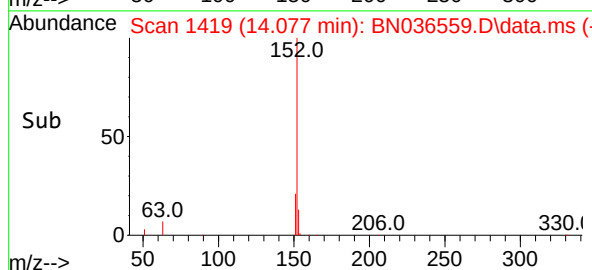
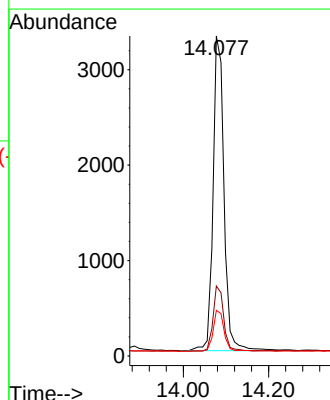
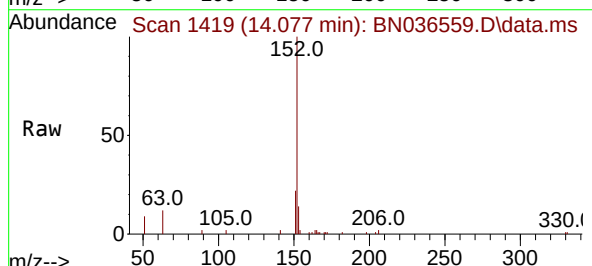
Tgt Ion:152 Resp: 5865

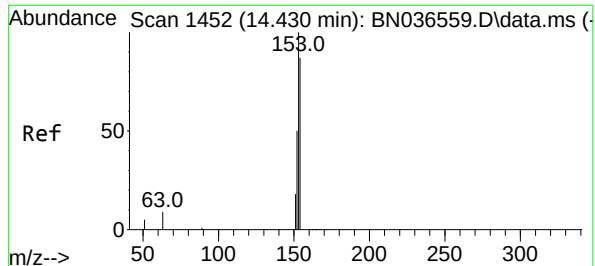
Ion Ratio Lower Upper

152 100

151 20.3 16.2 24.4

153 13.2 10.6 15.8

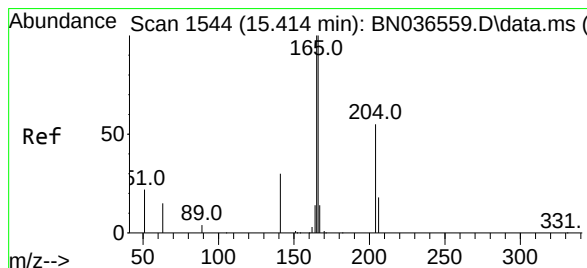
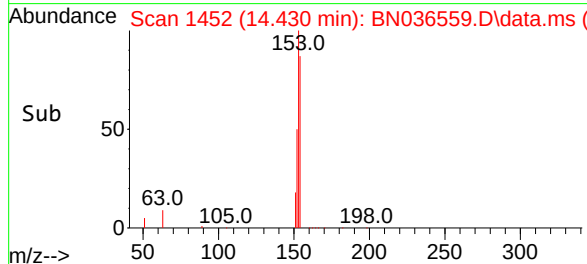
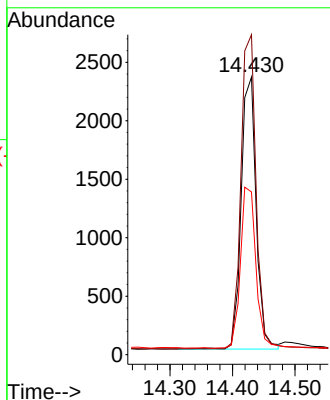
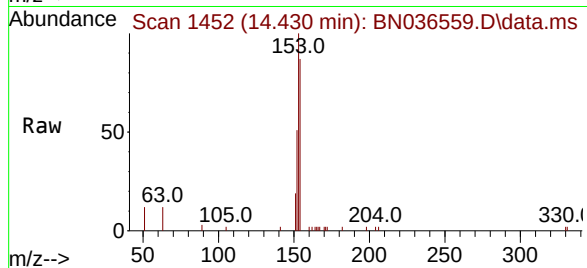




#17
Acenaphthene
Concen: 0.415 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

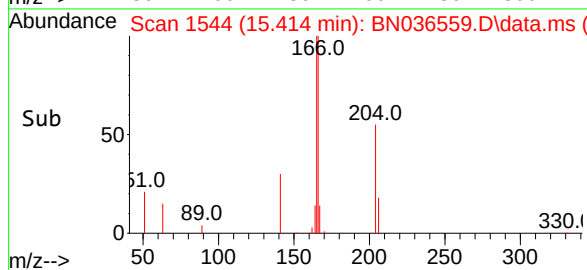
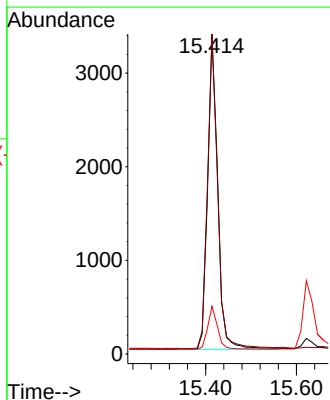
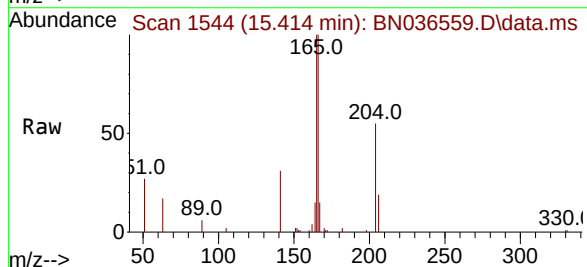
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

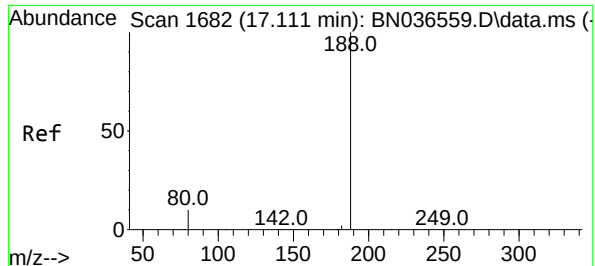
Tgt Ion:154 Resp: 3877
Ion Ratio Lower Upper
154 100
153 117.6 94.1 141.1
152 62.2 49.8 74.6



#18
Fluorene
Concen: 0.422 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:166 Resp: 5338
Ion Ratio Lower Upper
166 100
165 99.8 79.8 119.8
167 13.2 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

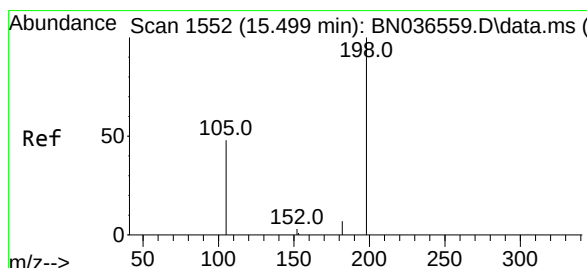
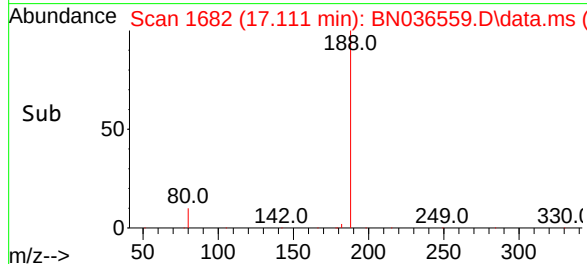
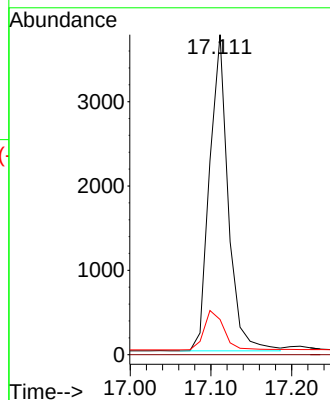
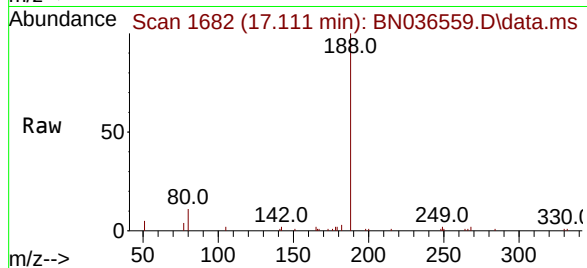
Tgt Ion:188 Resp: 6005

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.0 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.447 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

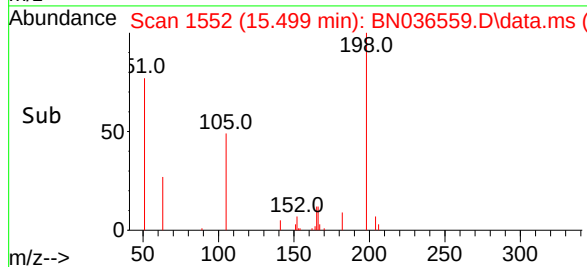
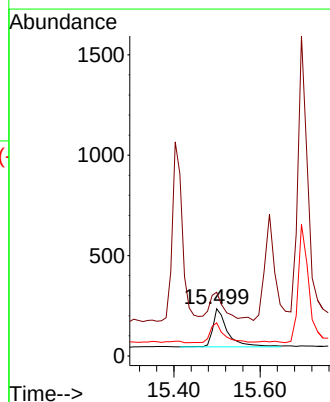
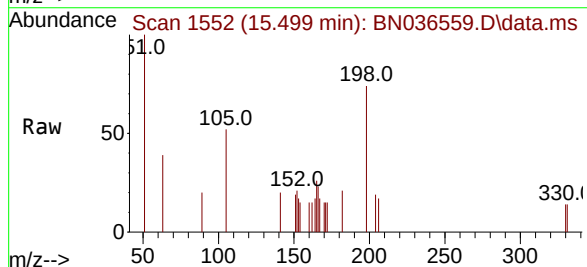
Tgt Ion:198 Resp: 462

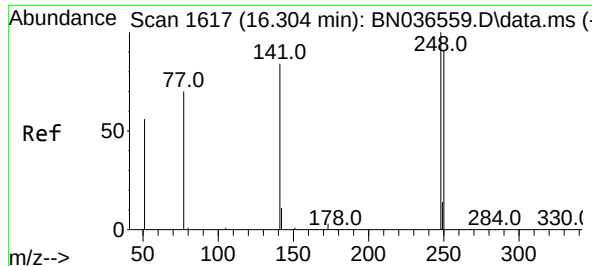
Ion Ratio Lower Upper

198 100

51 134.9 107.9 161.9

105 70.2 56.2 84.2

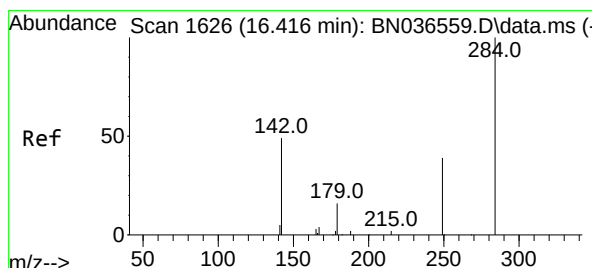
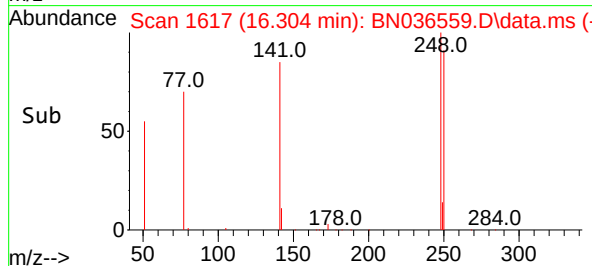
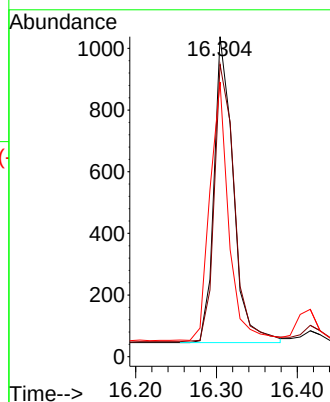
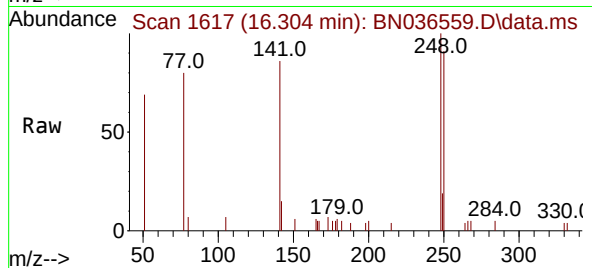




#21
4-Bromophenyl-phenylether
Concen: 0.437 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

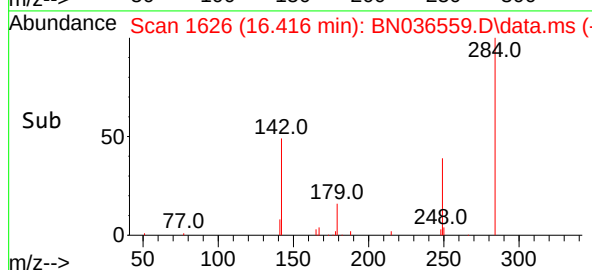
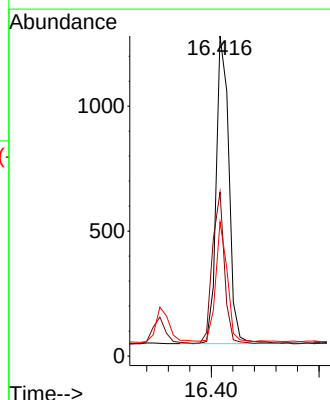
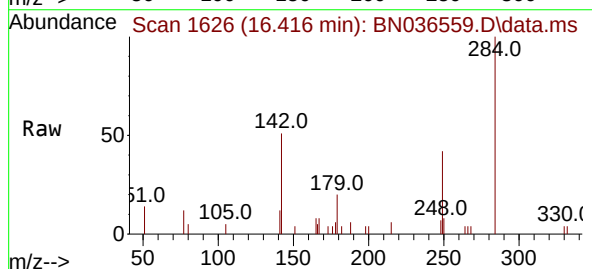
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

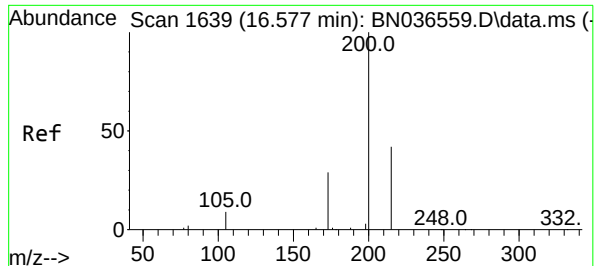
Tgt Ion	Ratio	Lower	Upper
248	100		
250	91.3	73.0	109.6
141	85.8	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.444 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion	Ratio	Lower	Upper
284	100		
142	46.2	37.0	55.4
249	35.1	28.1	42.1

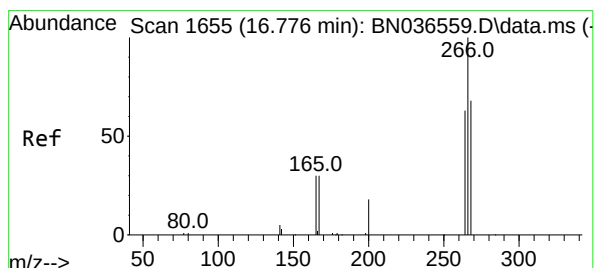
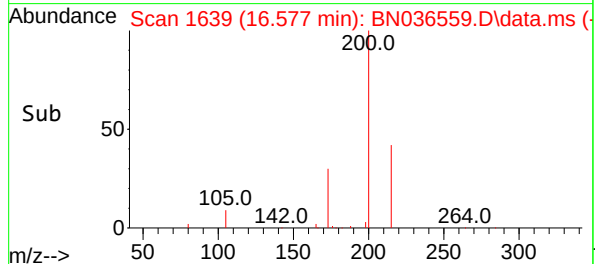
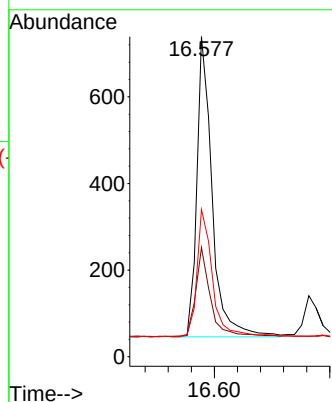
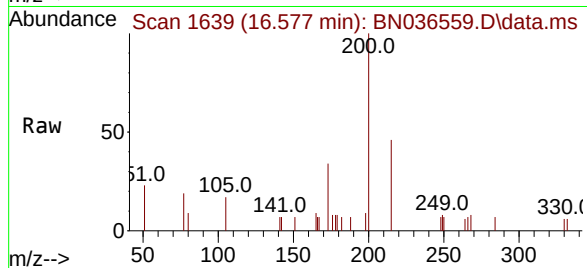




#23
Atrazine
Concen: 0.424 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

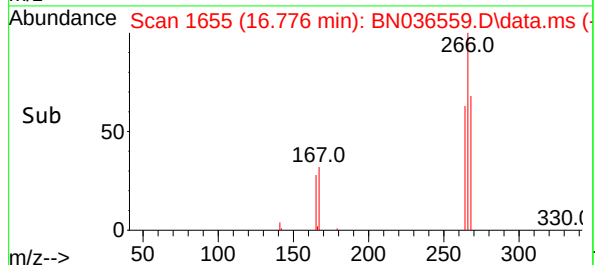
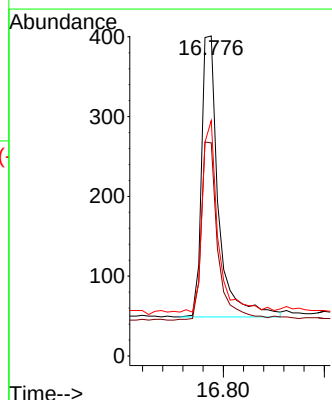
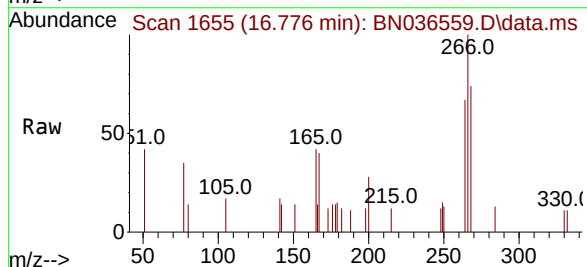
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

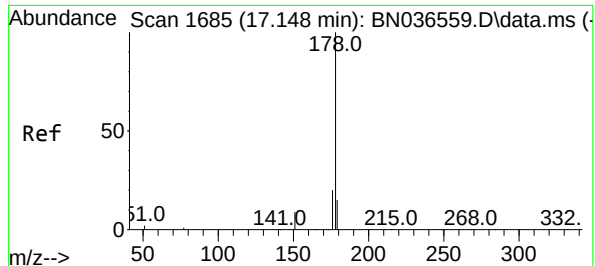
Tgt Ion:200 Resp: 1279
Ion Ratio Lower Upper
200 100
173 34.1 27.3 40.9
215 46.0 36.8 55.2



#24
Pentachlorophenol
Concen: 0.396 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:266 Resp: 821
Ion Ratio Lower Upper
266 100
264 62.0 49.6 74.4
268 63.6 50.9 76.3

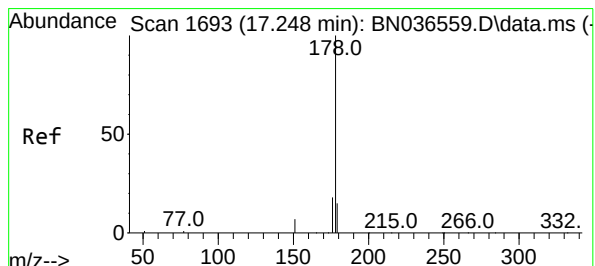
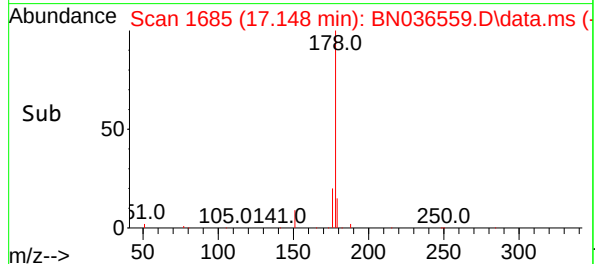
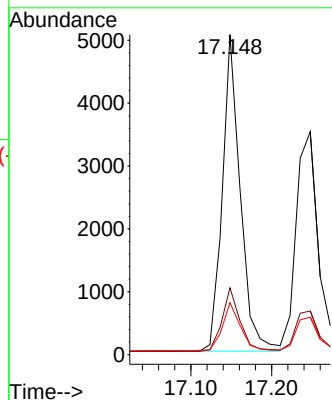
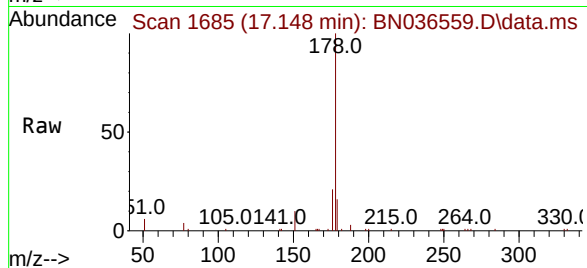




#25
Phenanthrene
Concen: 0.432 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

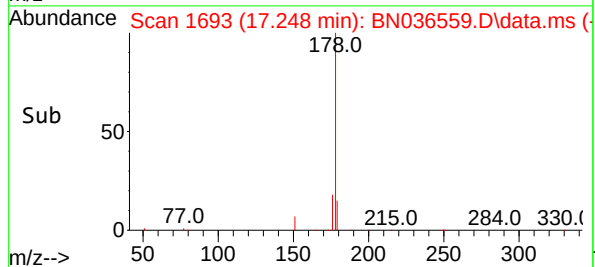
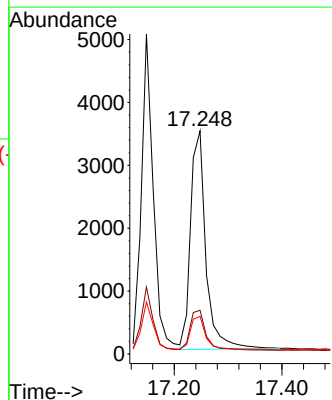
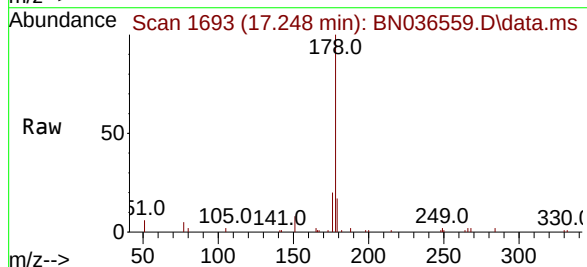
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

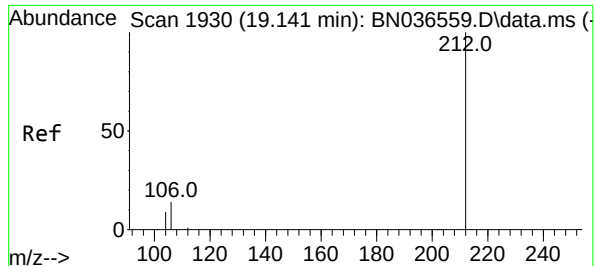
Tgt Ion:178 Resp: 7786
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 15.3 12.2 18.4



#26
Anthracene
Concen: 0.424 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:178 Resp: 6886
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.7 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.435 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

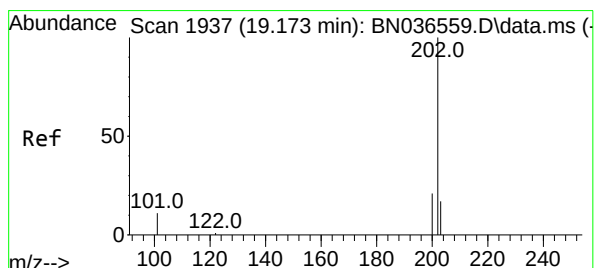
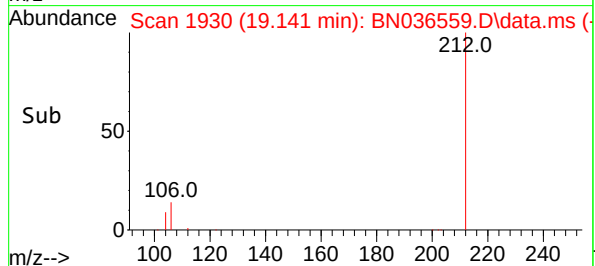
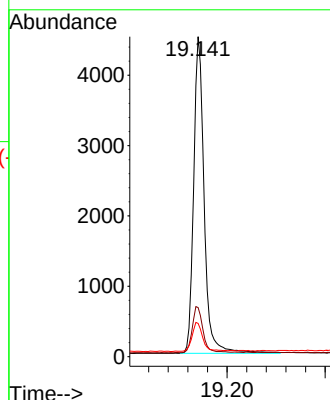
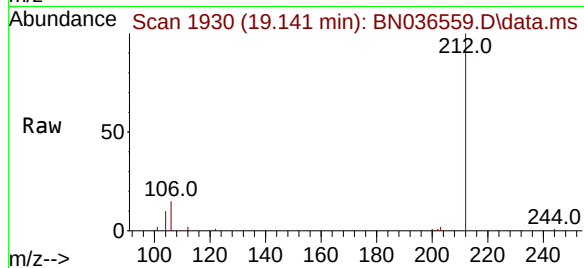
Tgt Ion:212 Resp: 6699

Ion Ratio Lower Upper

212 100

106 14.7 11.8 17.6

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 0.431 ng

RT: 19.173 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

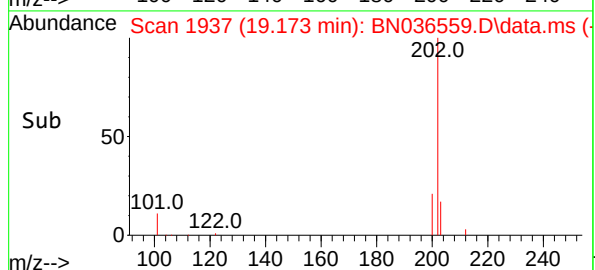
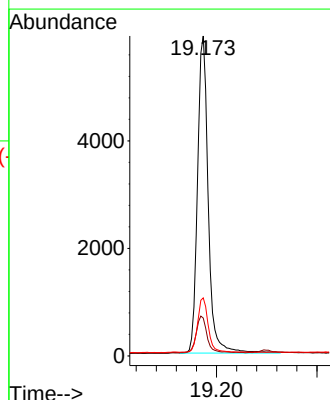
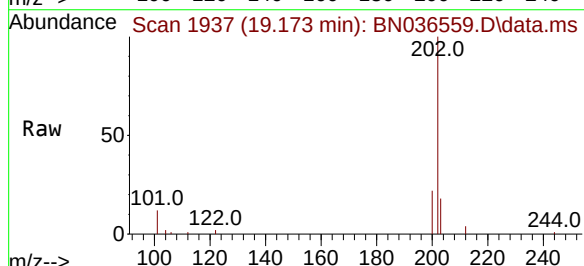
Tgt Ion:202 Resp: 8717

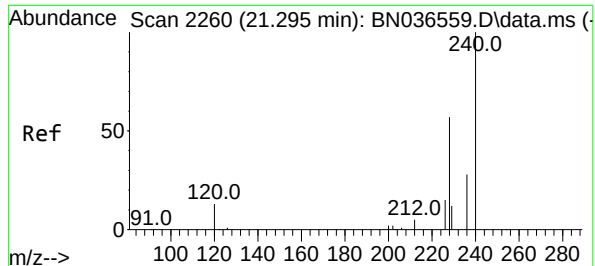
Ion Ratio Lower Upper

202 100

101 11.7 9.4 14.0

203 16.9 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

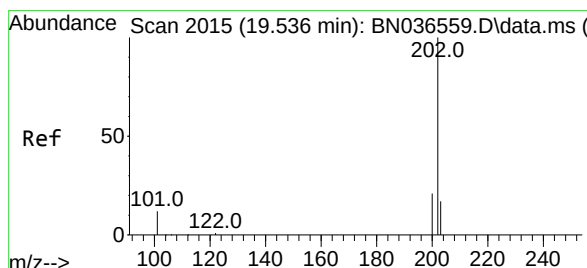
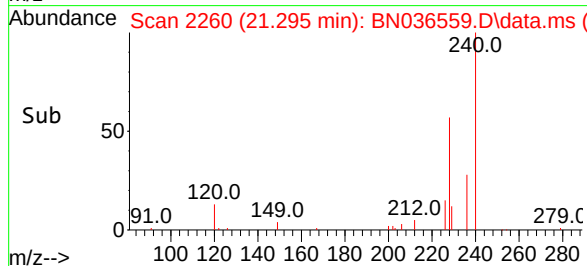
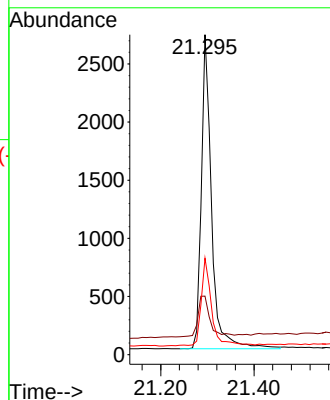
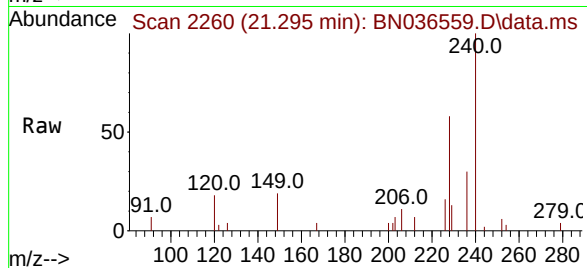
Tgt Ion:240 Resp: 4110

Ion Ratio Lower Upper

240 100

120 18.3 14.6 22.0

236 30.1 24.1 36.1



#30

Pyrene

Concen: 0.436 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

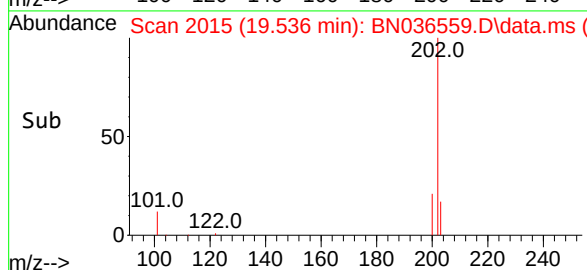
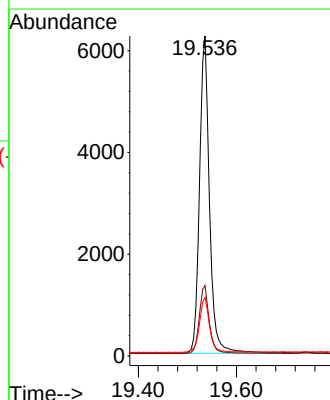
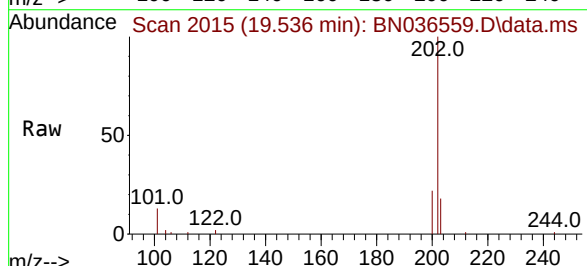
Tgt Ion:202 Resp: 8759

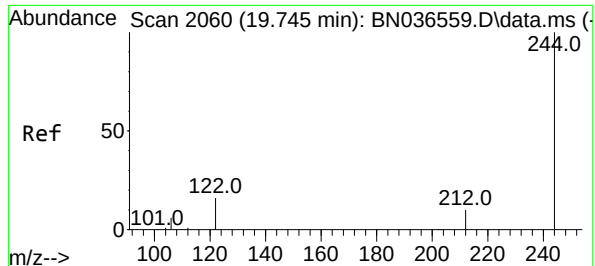
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.6 14.1 21.1

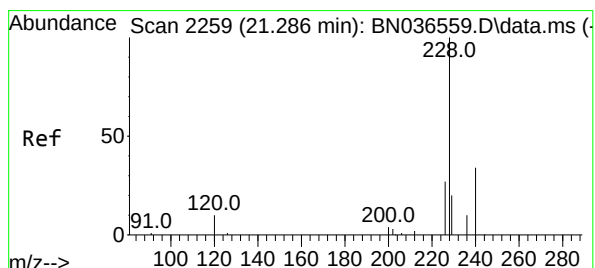
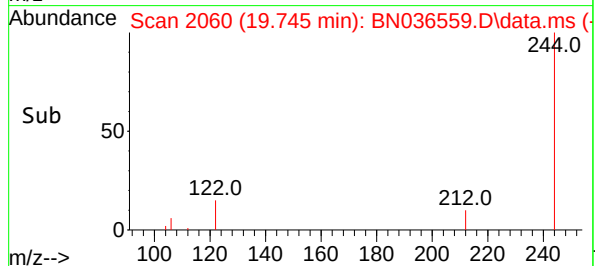
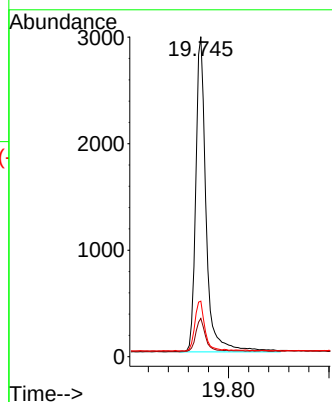
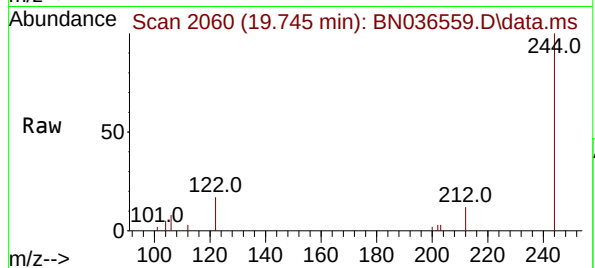




#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

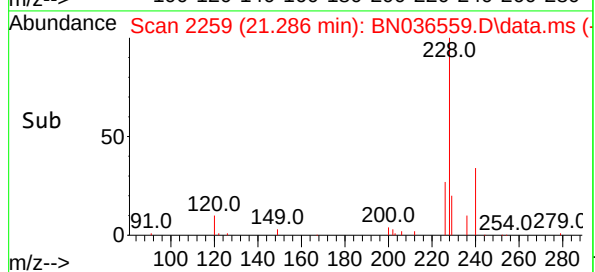
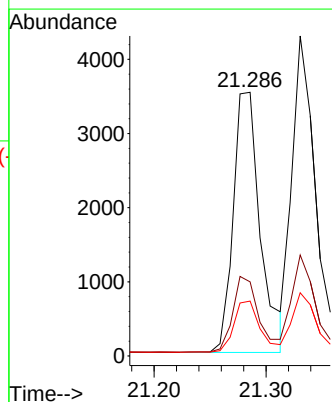
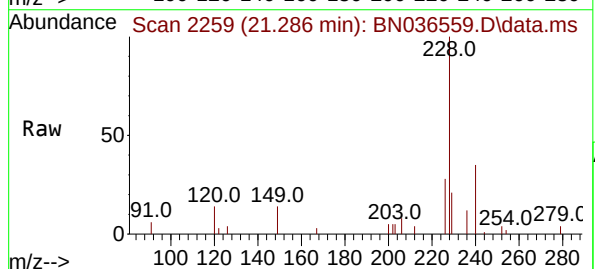
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

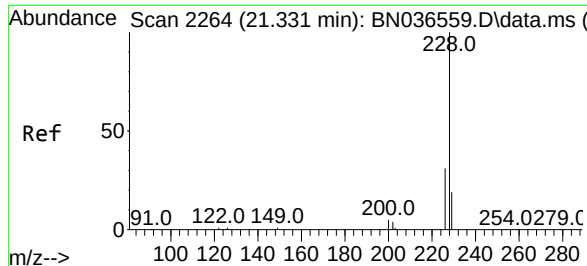
Tgt Ion:244 Resp: 4226
Ion Ratio Lower Upper
244 100
212 12.0 9.6 14.4
122 17.4 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN036559.D
Acq: 10 Mar 2025 12:54

Tgt Ion:228 Resp: 5908
Ion Ratio Lower Upper
228 100
226 28.1 22.5 33.7
229 20.8 16.6 25.0





#33

Chrysene

Concen: 0.424 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

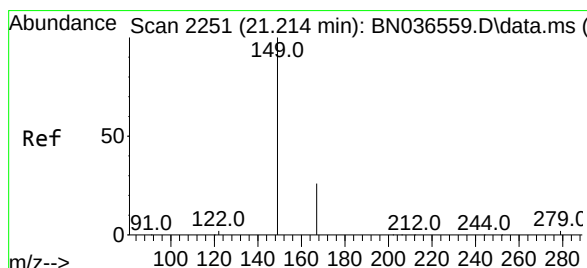
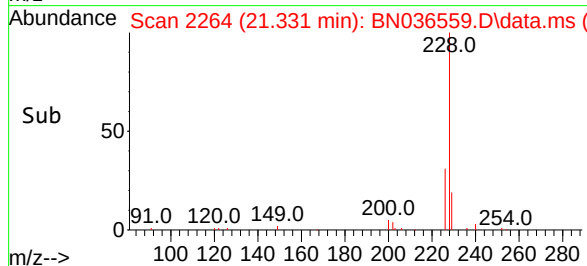
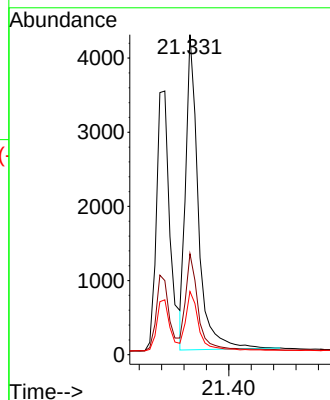
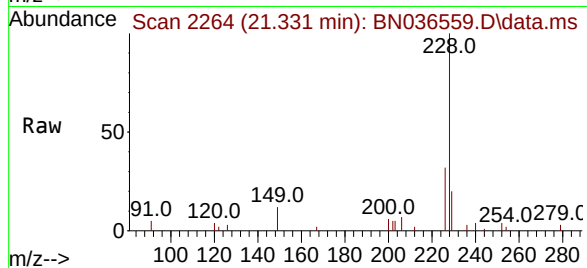
Tgt Ion:228 Resp: 6617

Ion Ratio Lower Upper

228 100

226 31.6 25.3 37.9

229 19.8 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.422 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

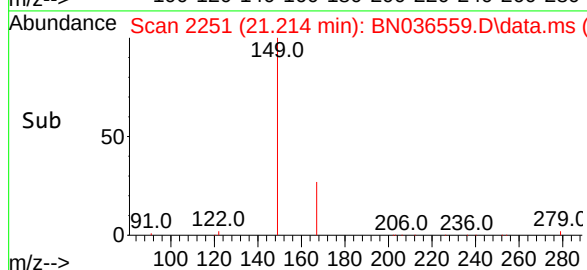
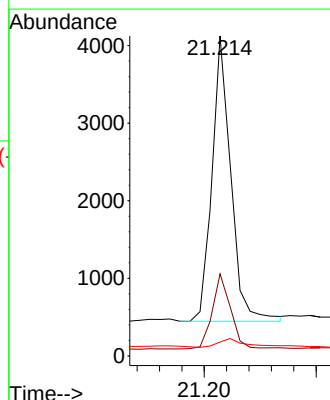
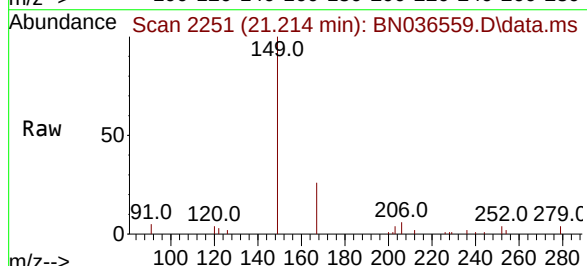
Tgt Ion:149 Resp: 4291

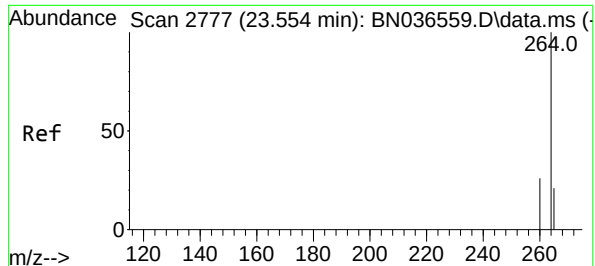
Ion Ratio Lower Upper

149 100

167 25.9 20.7 31.1

279 4.5 3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

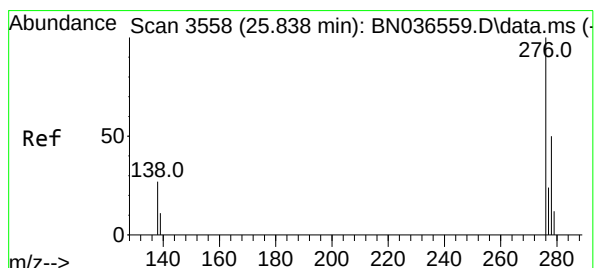
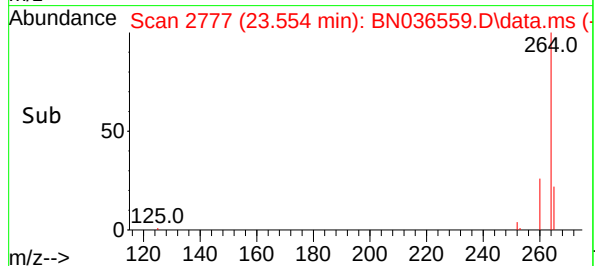
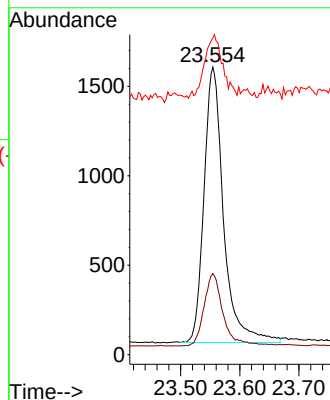
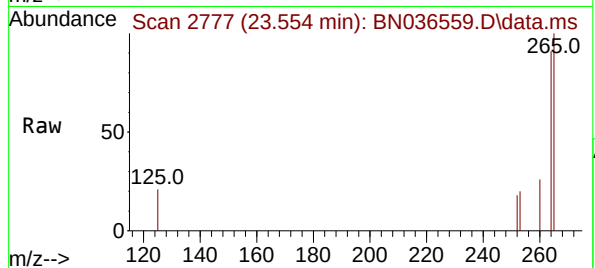
Tgt Ion:264 Resp: 3539

Ion Ratio Lower Upper

264 100

260 28.2 22.6 33.8

265 110.1 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.428 ng

RT: 25.838 min Scan# 3558

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

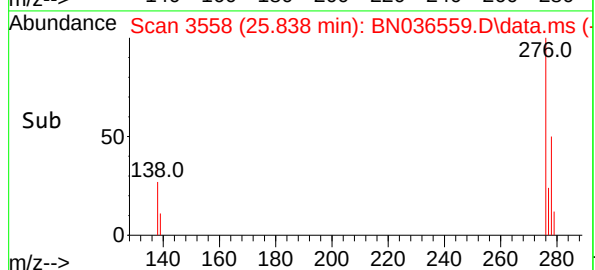
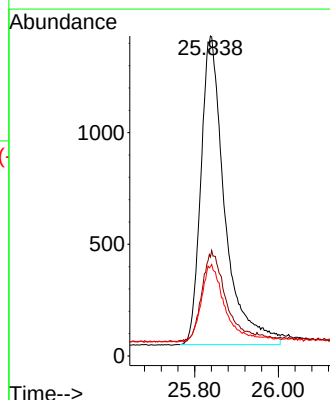
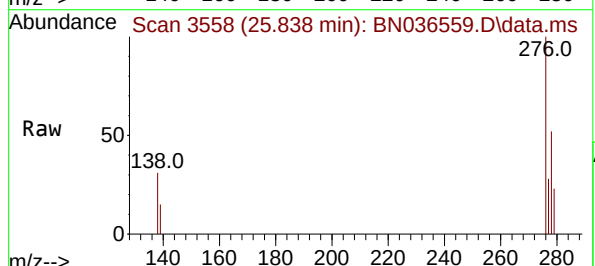
Tgt Ion:276 Resp: 5470

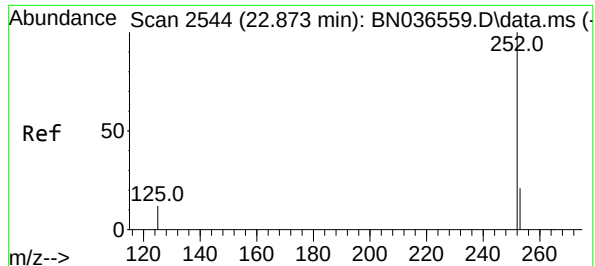
Ion Ratio Lower Upper

276 100

138 29.3 23.4 35.2

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.425 ng

RT: 22.873 min Scan# 2544

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

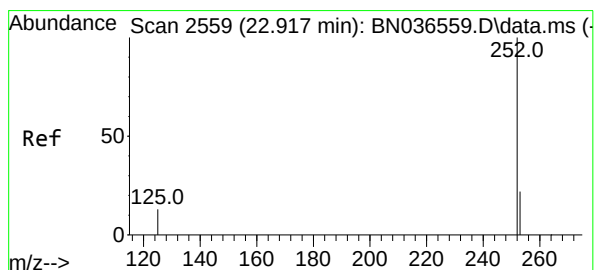
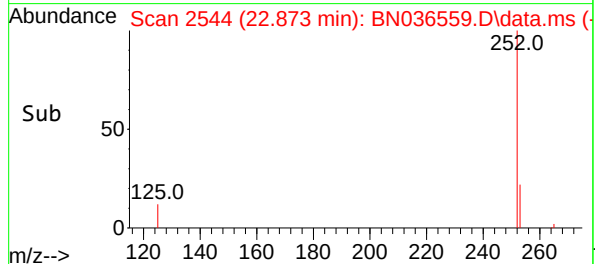
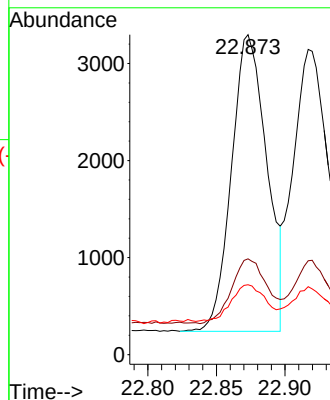
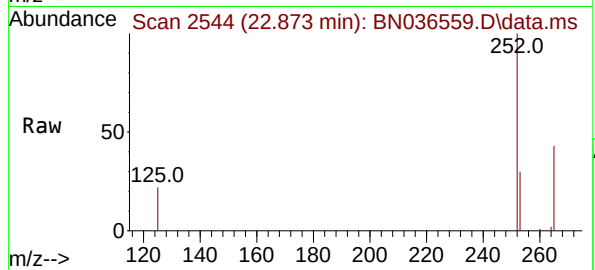
Tgt Ion:252 Resp: 5475

Ion Ratio Lower Upper

252 100

253 29.9 23.9 35.9

125 21.8 17.4 26.2



#38

Benzo(k)fluoranthene

Concen: 0.424 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

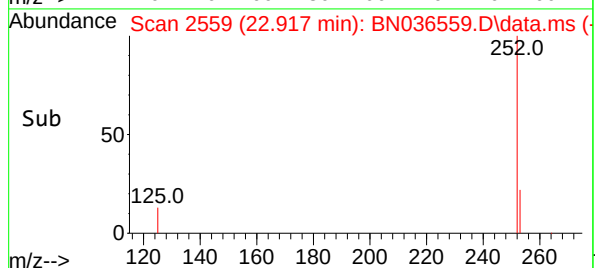
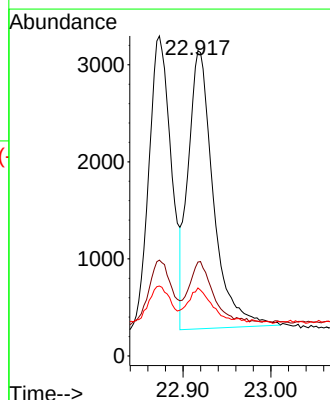
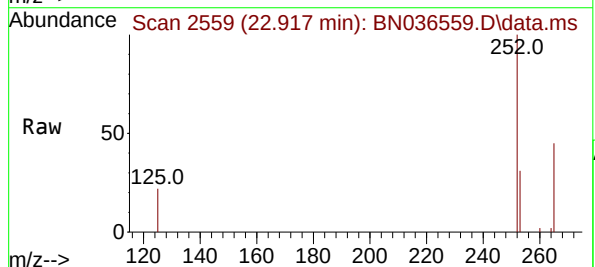
Tgt Ion:252 Resp: 5732

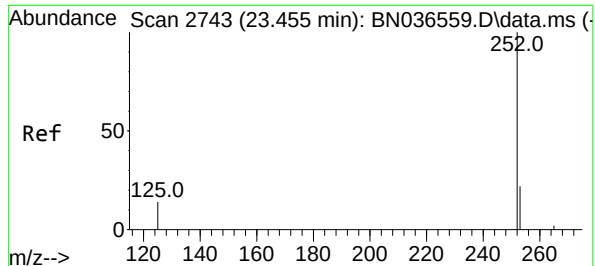
Ion Ratio Lower Upper

252 100

253 30.7 24.6 36.8

125 22.3 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.425 ng

RT: 23.455 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

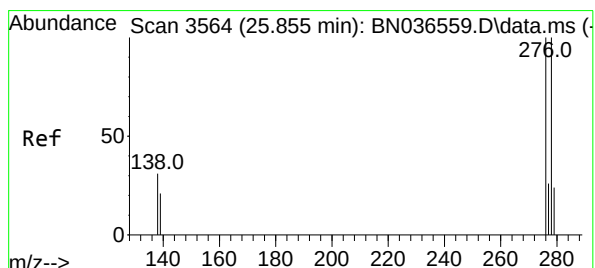
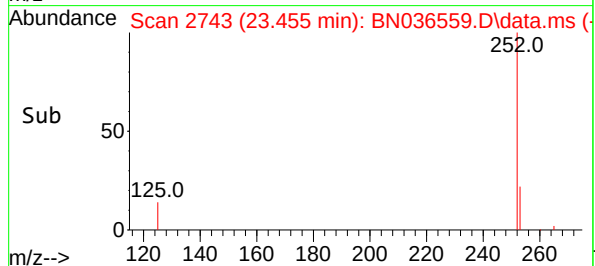
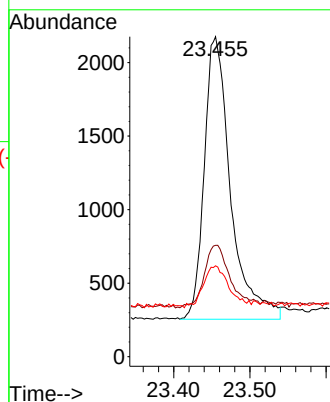
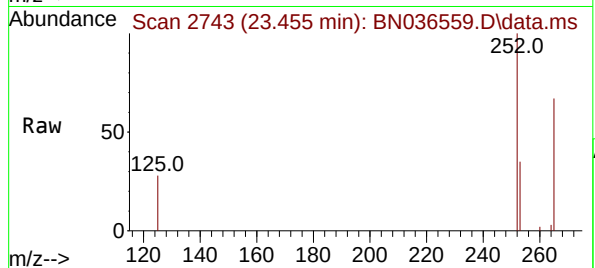
Tgt Ion:252 Resp: 4612

Ion Ratio Lower Upper

252 100

253 34.8 27.8 41.8

125 28.4 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.414 ng

RT: 25.855 min Scan# 3564

Delta R.T. 0.000 min

Lab File: BN036559.D

Acq: 10 Mar 2025 12:54

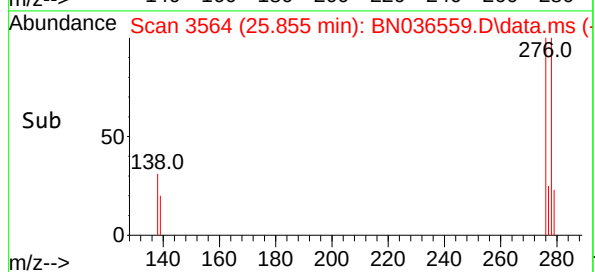
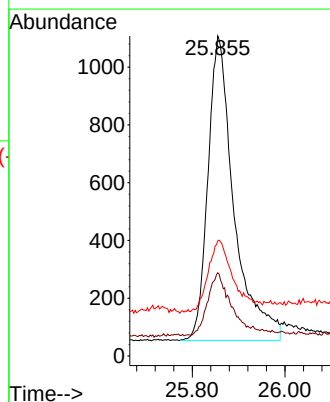
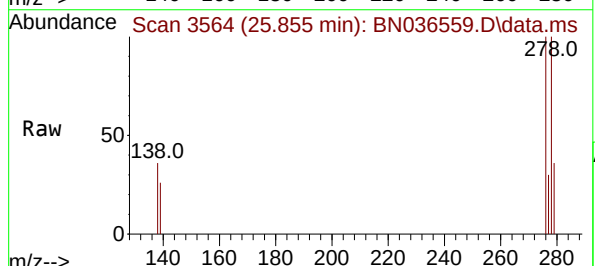
Tgt Ion:278 Resp: 4117

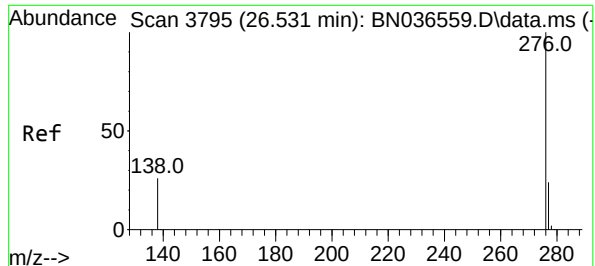
Ion Ratio Lower Upper

278 100

139 26.0 20.8 31.2

279 36.0 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.430 ng

RT: 26.531 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036559.D

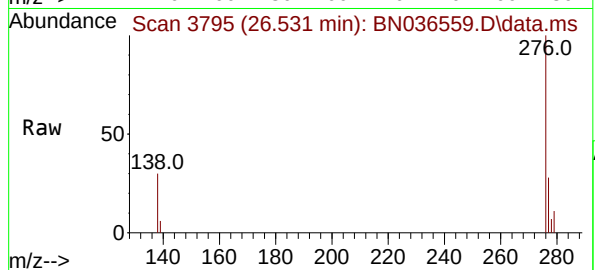
Acq: 10 Mar 2025 12:54

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



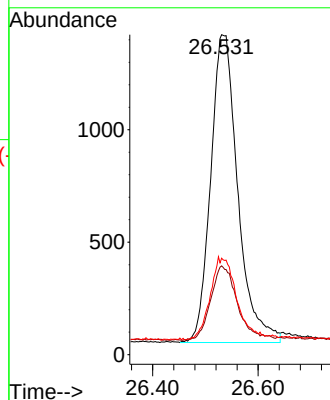
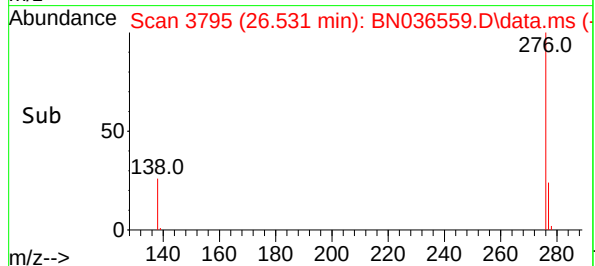
Tgt Ion:276 Resp: 4891

Ion Ratio Lower Upper

276 100

277 27.8 22.2 33.4

138 30.1 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036560.D
 Acq On : 10 Mar 2025 13:31
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Mar 10 16:01:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

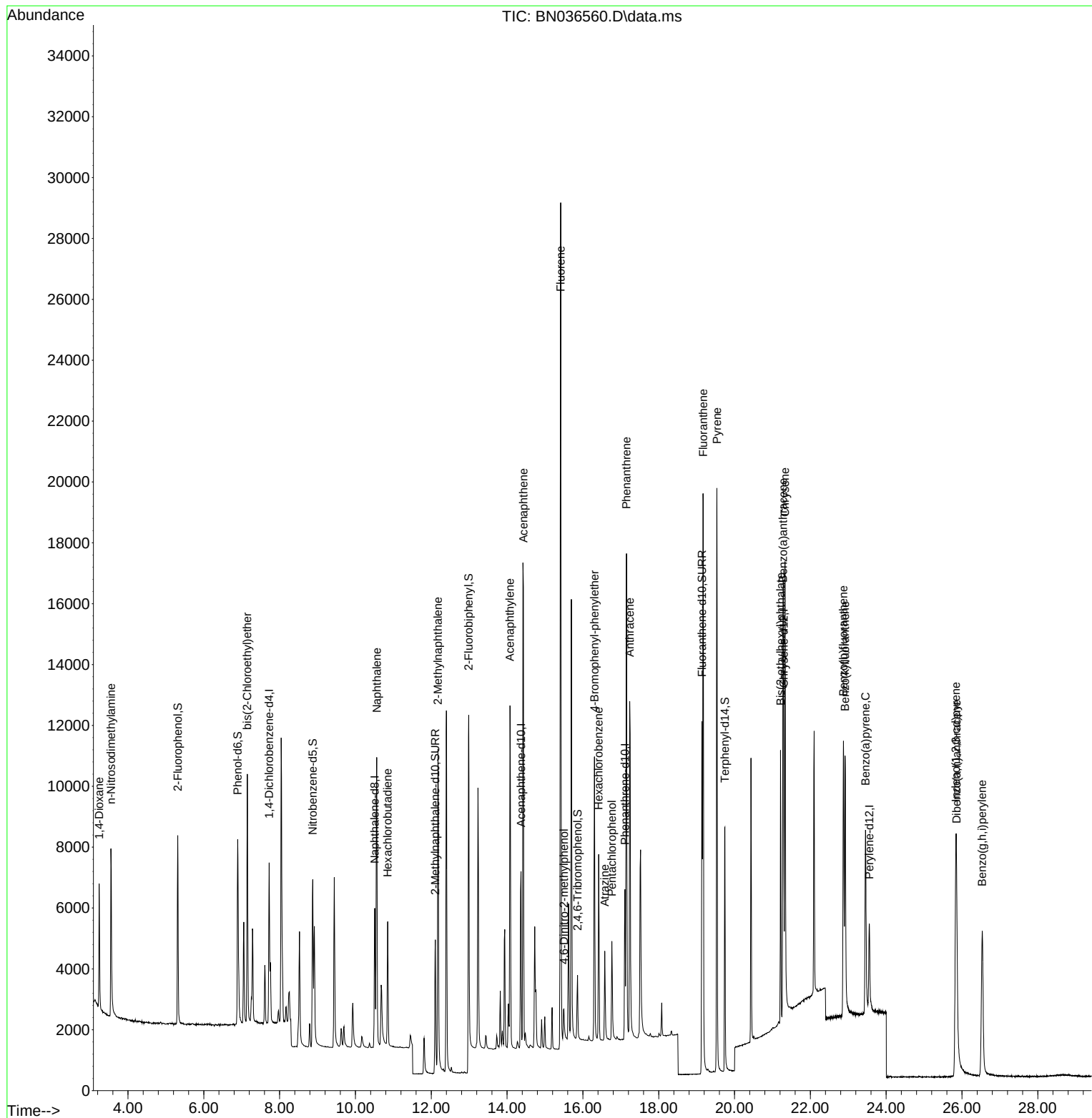
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2495	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5884	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3456	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6971	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4636	0.400	ng	0.00
35) Perylene-d12	23.554	264	4198	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	4381	0.753	ng	0.00
5) Phenol-d6	6.894	99	5324	0.741	ng	0.00
8) Nitrobenzene-d5	8.875	82	4717	0.737	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	6616	0.756	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	1166	0.744	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	16243	0.808	ng	0.00
27) Fluoranthene-d10	19.141	212	13330	0.746	ng	0.00
31) Terphenyl-d14	19.745	244	8571	0.772	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	2251	0.813	ng	99
3) n-Nitrosodimethylamine	3.550	42	4197	0.750	ng	96
6) bis(2-Chloroethyl)ether	7.147	93	5632	0.759	ng	99
9) Naphthalene	10.562	128	13078	0.756	ng	98
10) Hexachlorobutadiene	10.851	225	3147	0.772	ng	# 99
12) 2-Methylnaphthalene	12.177	142	8272	0.751	ng	98
16) Acenaphthylene	14.078	152	12403	0.760	ng	100
17) Acenaphthene	14.430	154	8096	0.758	ng	99
18) Fluorene	15.414	166	11120	0.770	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	1039	0.724	ng	# 59
21) 4-Bromophenyl-phenylether	16.305	248	3324	0.761	ng	93
22) Hexachlorobenzene	16.416	284	4115	0.780	ng	99
23) Atrazine	16.578	200	2677	0.764	ng	94
24) Pentachlorophenol	16.764	266	1701	0.707	ng	98
25) Phenanthrene	17.149	178	15910	0.761	ng	99
26) Anthracene	17.236	178	14403	0.763	ng	99
28) Fluoranthene	19.174	202	17738	0.755	ng	99
30) Pyrene	19.536	202	17714	0.781	ng	100
32) Benzo(a)anthracene	21.277	228	12089	0.750	ng	98
33) Chrysene	21.331	228	13974	0.793	ng	100
34) Bis(2-ethylhexyl)phtha...	21.214	149	8021	0.699	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.838	276	11785	0.778	ng	99
37) Benzo(b)fluoranthene	22.873	252	11771	0.770	ng	# 91
38) Benzo(k)fluoranthene	22.917	252	12432	0.776	ng	# 90
39) Benzo(a)pyrene	23.455	252	10036	0.780	ng	# 87
40) Dibenzo(a,h)anthracene	25.858	278	9450	0.801	ng	91
41) Benzo(g,h,i)perylene	26.534	276	10494	0.778	ng	96

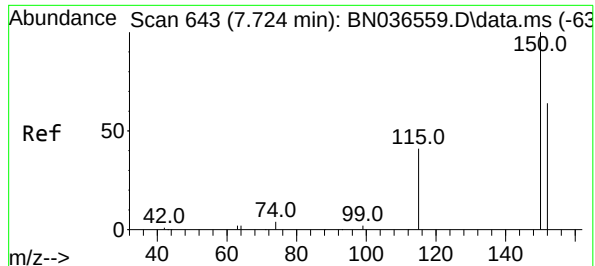
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036560.D
Acq On : 10 Mar 2025 13:31
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Mar 10 16:01:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

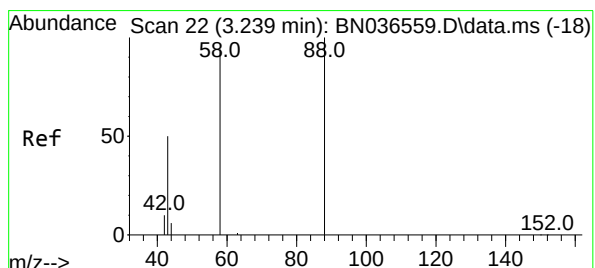
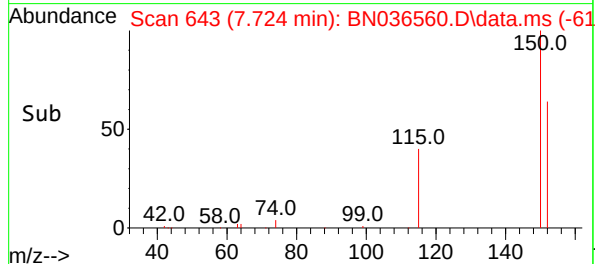
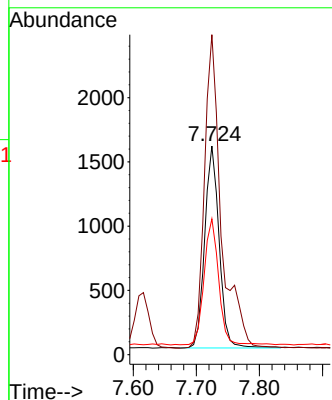
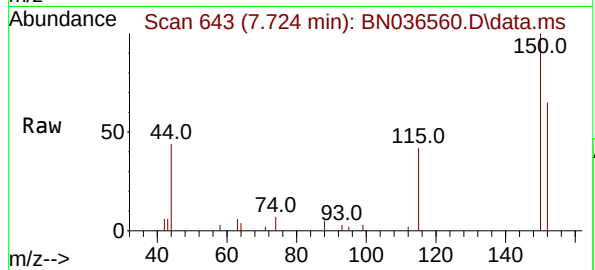




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

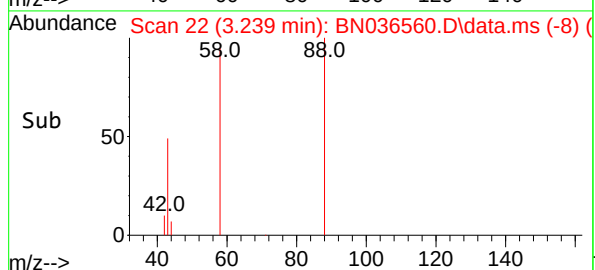
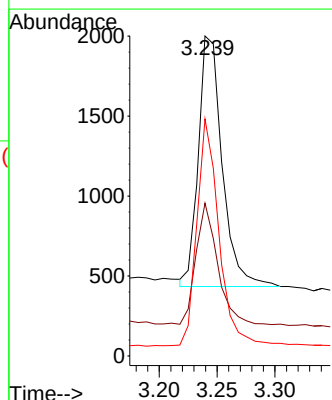
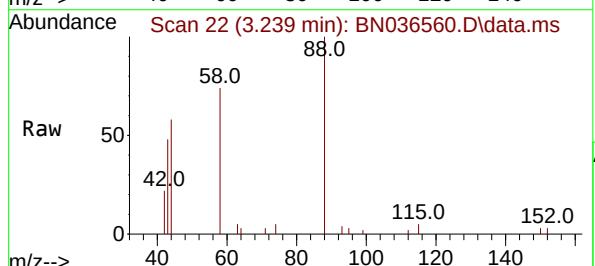
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

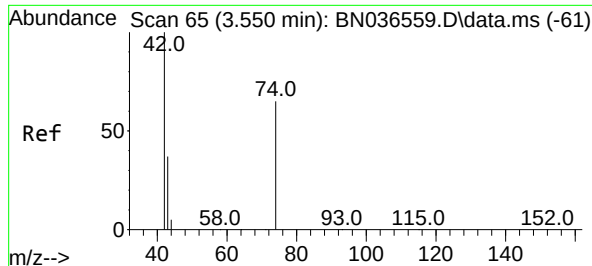
Tgt Ion:152 Resp: 2495
Ion Ratio Lower Upper
152 100
150 153.3 123.7 185.5
115 65.1 54.3 81.5



#2
1,4-Dioxane
Concen: 0.813 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 88 Resp: 2251
Ion Ratio Lower Upper
88 100
43 45.6 37.8 56.8
58 84.5 67.4 101.2

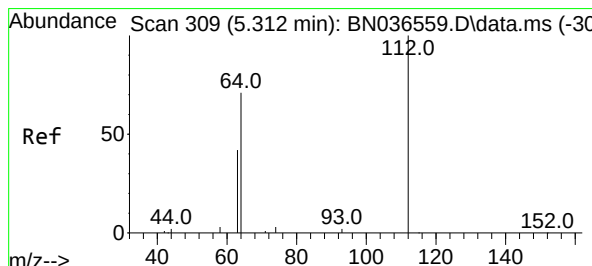
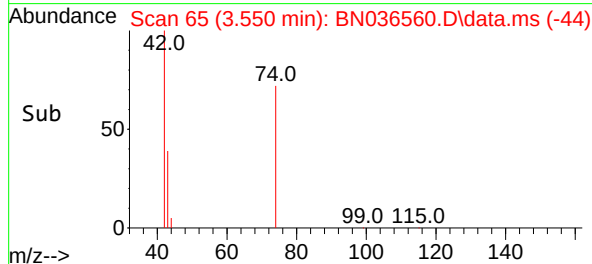
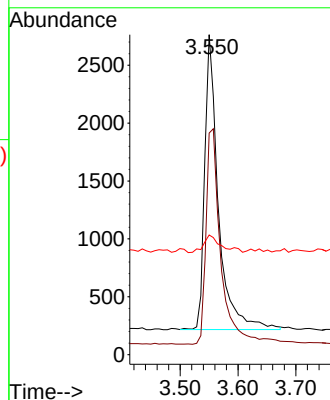
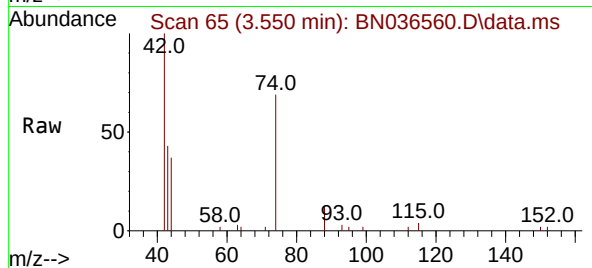




#3
n-Nitrosodimethylamine
Concen: 0.750 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

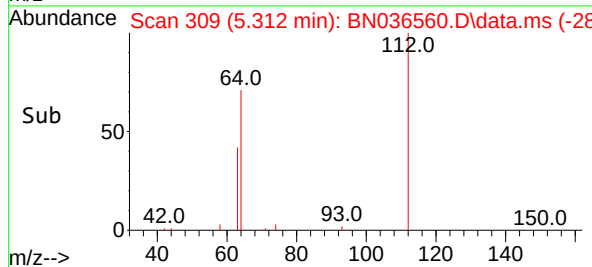
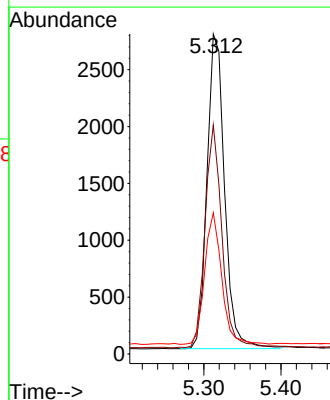
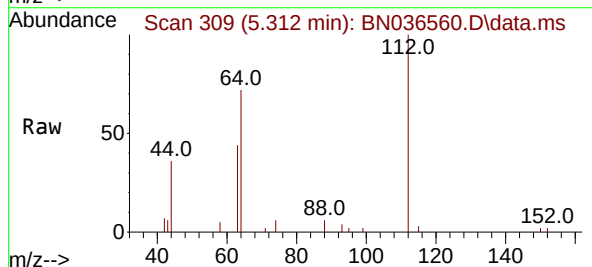
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

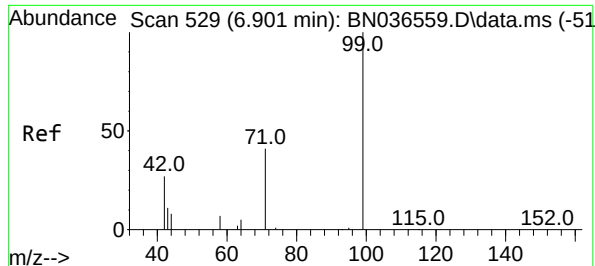
Tgt Ion: 42 Resp: 4197
Ion Ratio Lower Upper
42 100
74 79.3 60.6 90.8
44 7.4 6.3 9.5



#4
2-Fluorophenol
Concen: 0.753 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 112 Resp: 4381
Ion Ratio Lower Upper
112 100
64 68.8 53.1 79.7
63 40.4 31.8 47.8

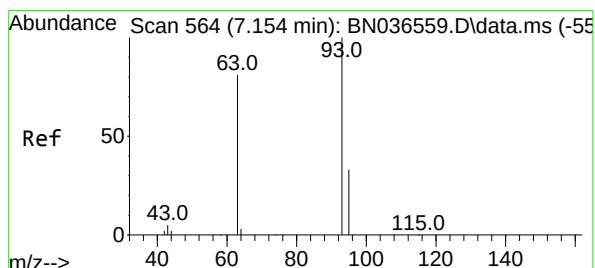
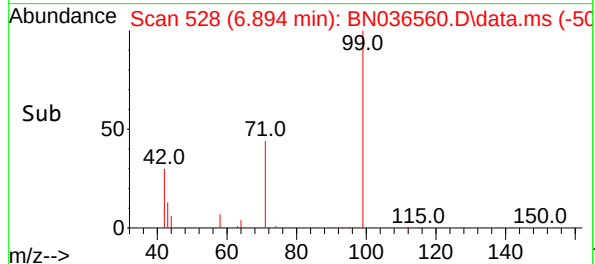
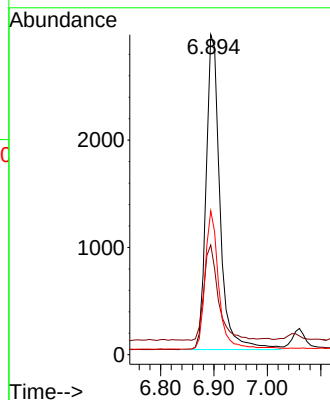
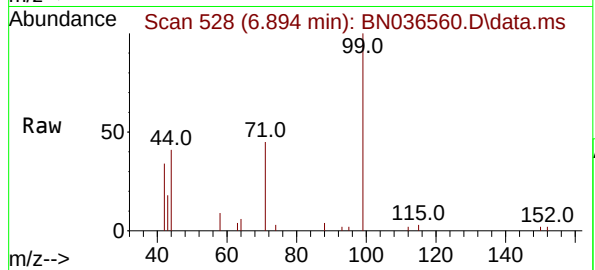




#5
Phenol-d6
Concen: 0.741 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

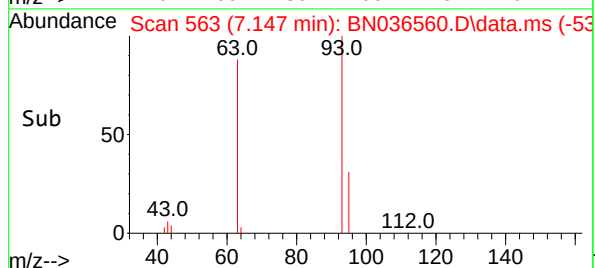
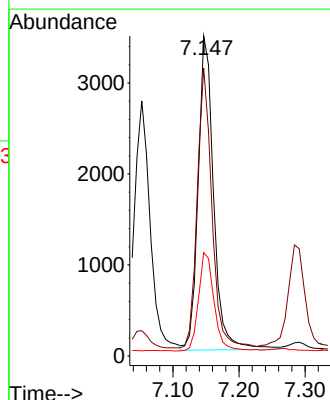
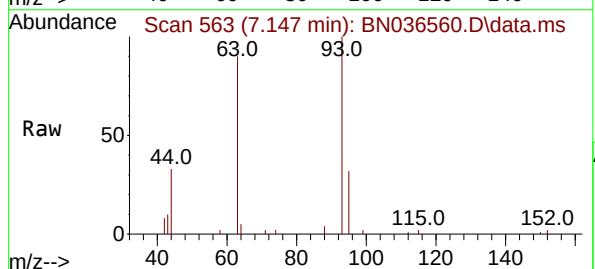
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

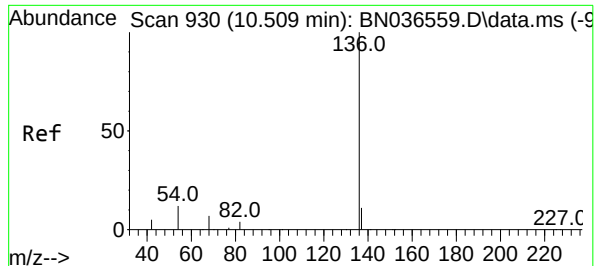
Tgt Ion: 99 Resp: 5324
Ion Ratio Lower Upper
99 100
42 31.3 26.5 39.7
71 42.6 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.759 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion: 93 Resp: 5632
Ion Ratio Lower Upper
93 100
63 84.0 67.7 101.5
95 31.6 25.6 38.4

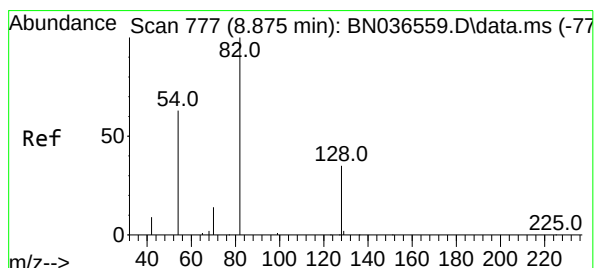
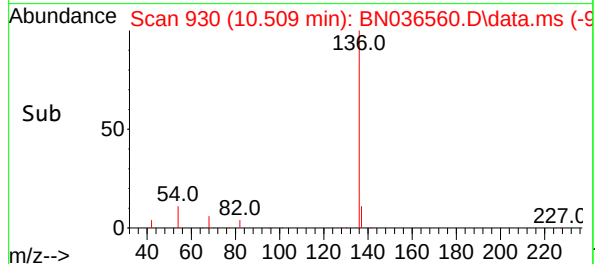
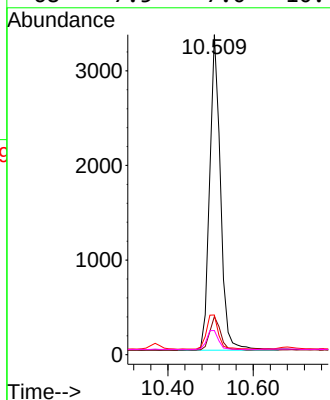
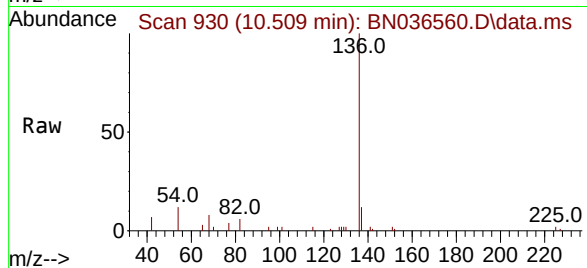




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

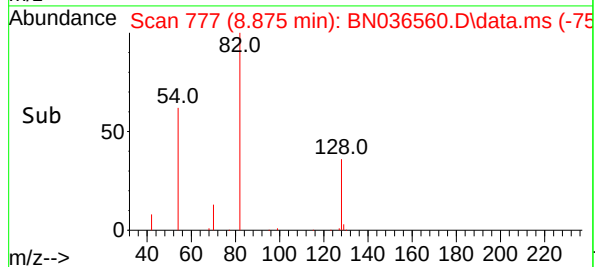
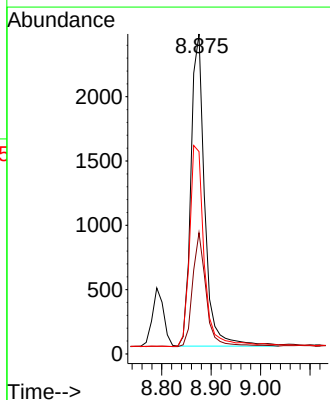
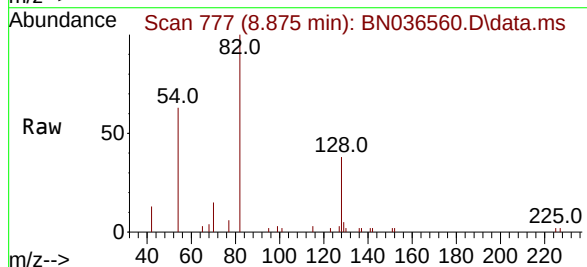
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

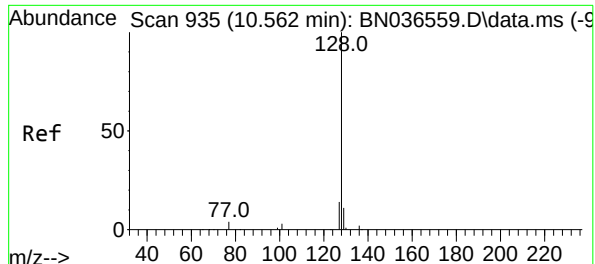
Tgt Ion:	136	Resp:	5884
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.4	11.5	17.3
68	7.5	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.737 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:	82	Resp:	4717
Ion	Ratio	Lower	Upper
82	100		
128	37.9	30.6	45.8
54	63.2	52.2	78.4





#9

Naphthalene

Concen: 0.756 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

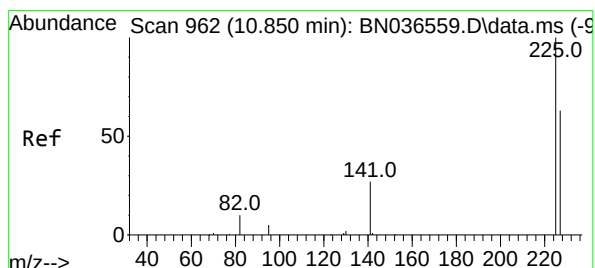
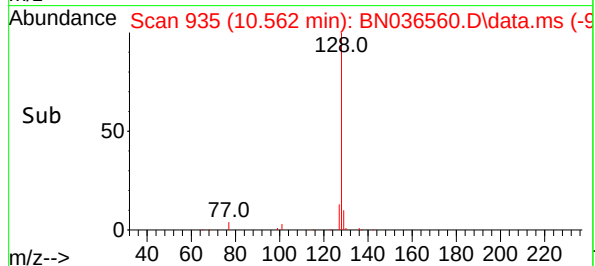
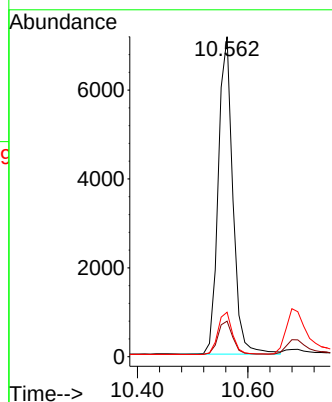
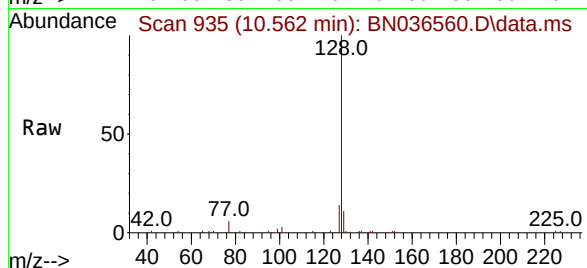
Tgt Ion:128 Resp: 13078

Ion Ratio Lower Upper

128 100

129 11.1 9.8 14.6

127 13.9 11.8 17.8



#10

Hexachlorobutadiene

Concen: 0.772 ng

RT: 10.851 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

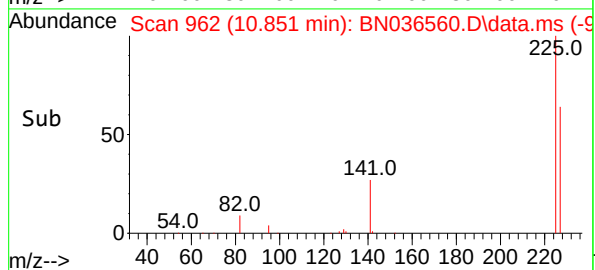
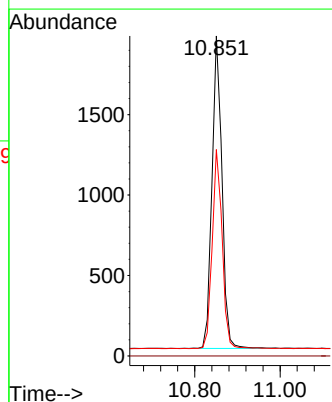
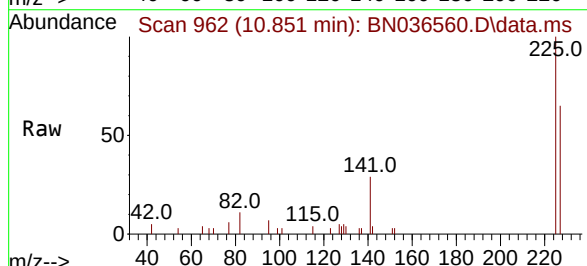
Tgt Ion:225 Resp: 3147

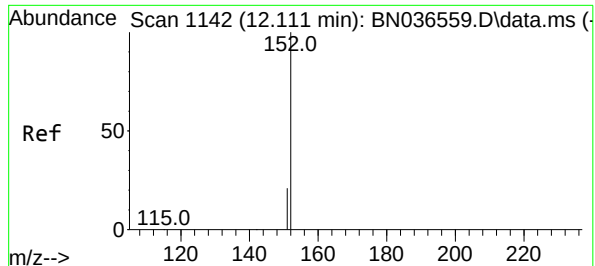
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.7 51.8 77.8

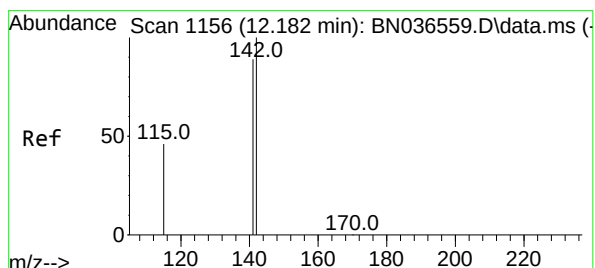
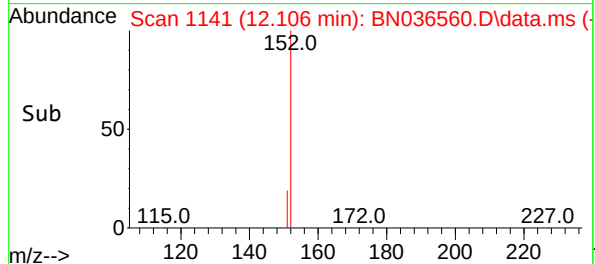
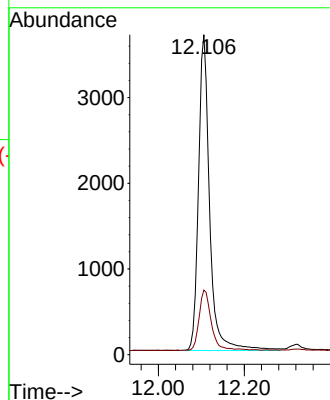
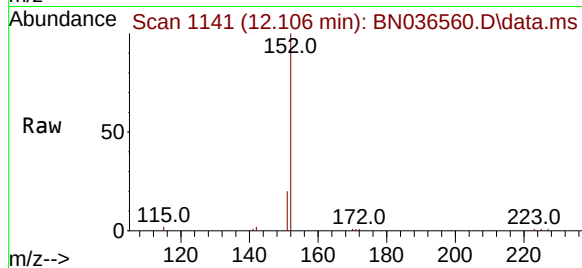




#11
2-Methylnaphthalene-d10
Concen: 0.756 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

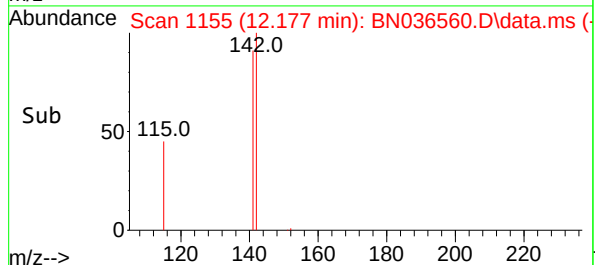
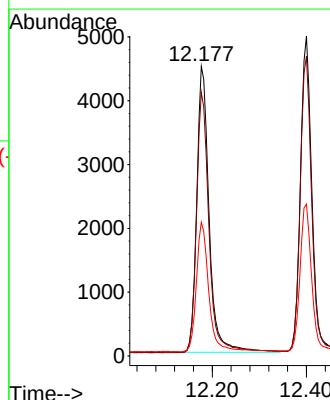
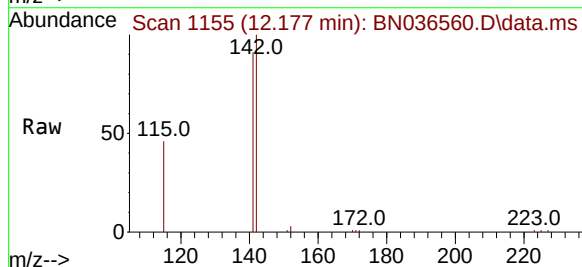
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

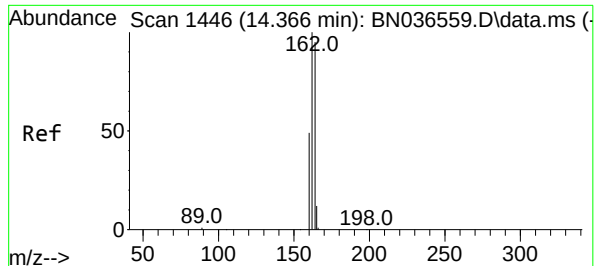
Tgt Ion:152 Resp: 6616
Ion Ratio Lower Upper
152 100
151 20.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.751 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:142 Resp: 8272
Ion Ratio Lower Upper
142 100
141 91.0 71.7 107.5
115 46.2 38.3 57.5

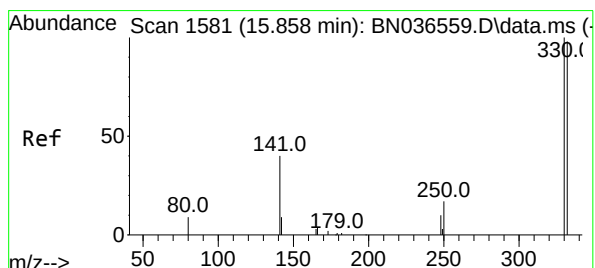
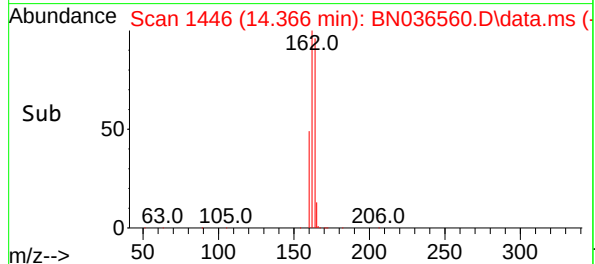
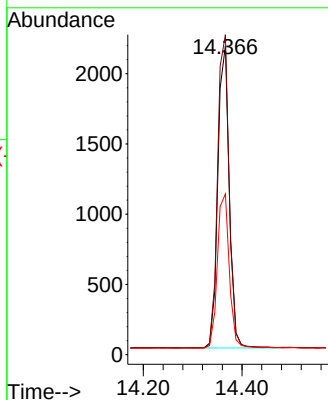
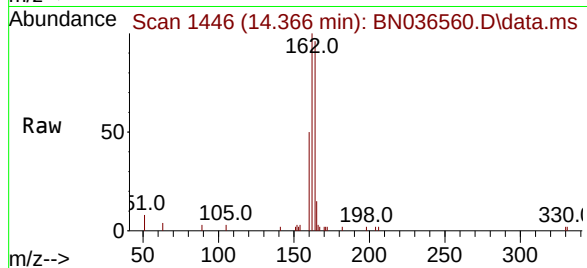




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

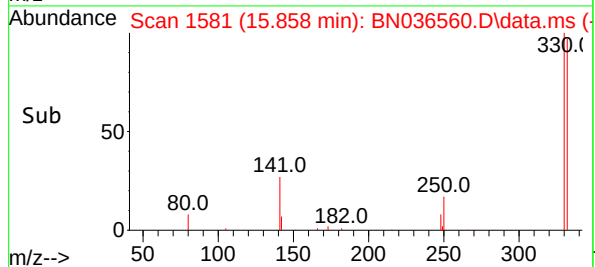
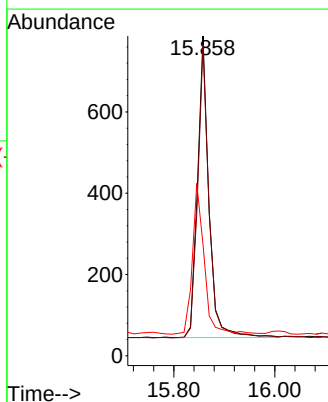
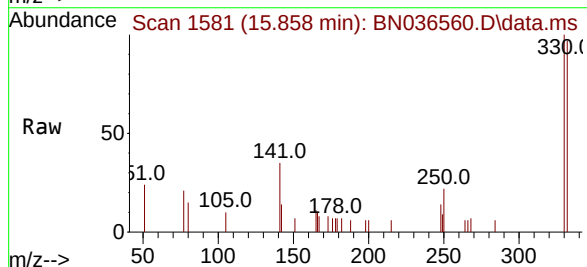
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

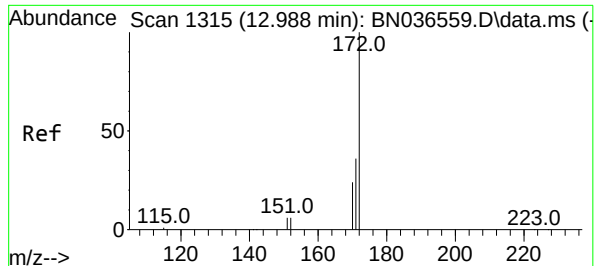
Tgt Ion:164 Resp: 3456
Ion Ratio Lower Upper
164 100
162 103.6 84.2 126.2
160 52.1 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:330 Resp: 1166
Ion Ratio Lower Upper
330 100
332 97.6 75.2 112.8
141 51.8 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 0.808 ng

RT: 12.988 min Scan# 1315

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

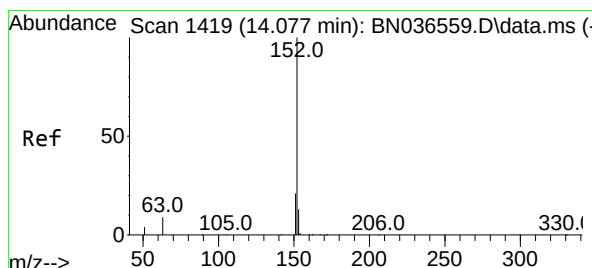
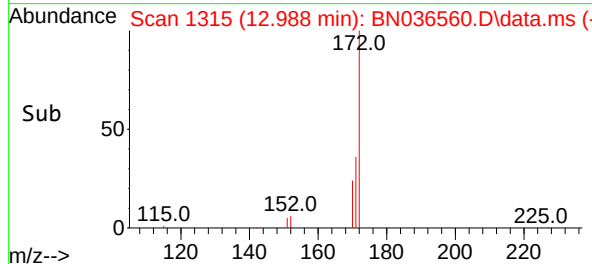
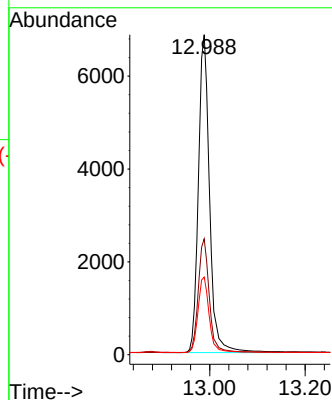
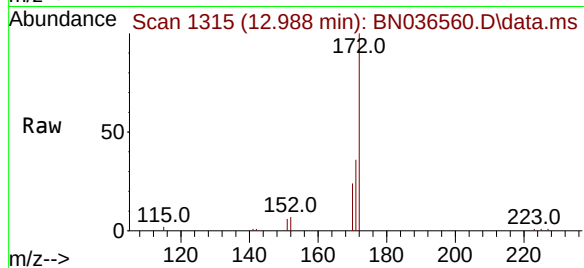
Tgt Ion:172 Resp: 16243

Ion Ratio Lower Upper

172 100

171 36.2 29.5 44.3

170 24.3 20.2 30.4



#16

Acenaphthylene

Concen: 0.760 ng

RT: 14.078 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

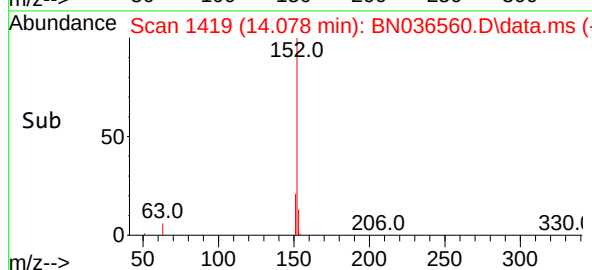
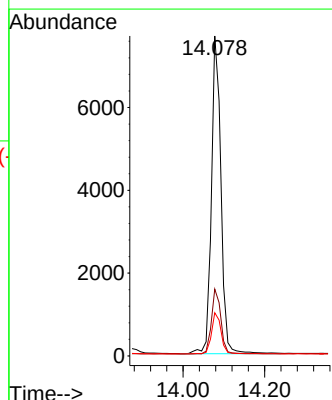
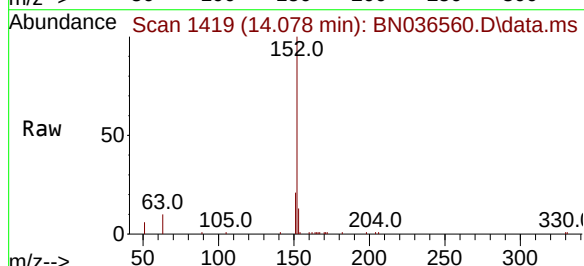
Tgt Ion:152 Resp: 12403

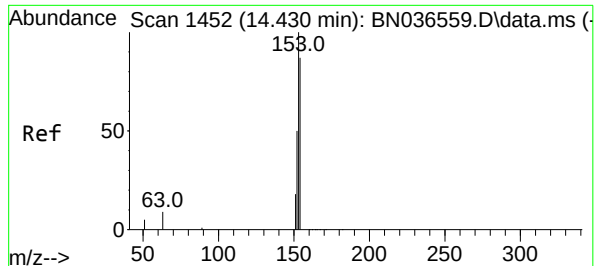
Ion Ratio Lower Upper

152 100

151 20.1 16.2 24.4

153 13.1 10.6 15.8

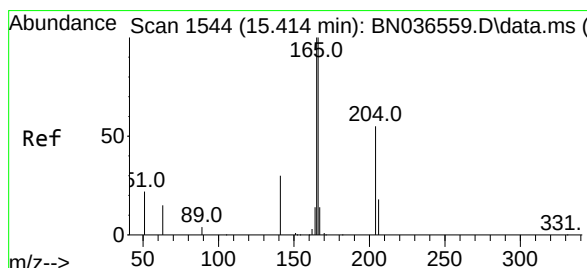
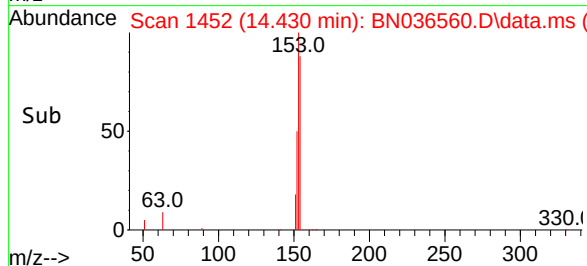
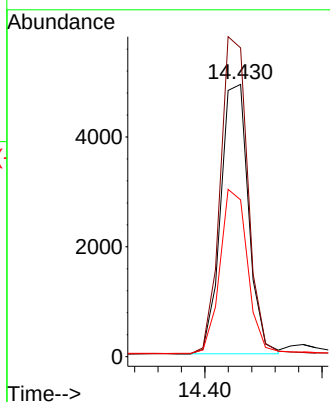
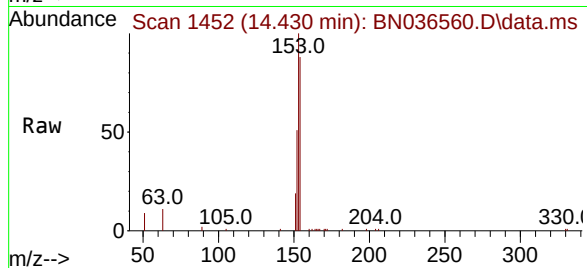




#17
Acenaphthene
Concen: 0.758 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

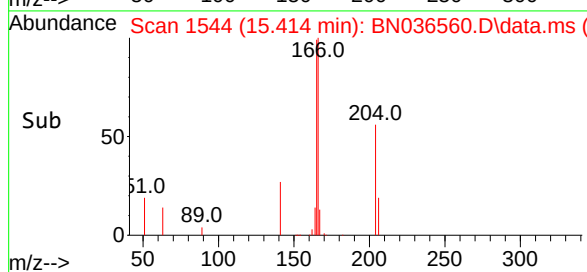
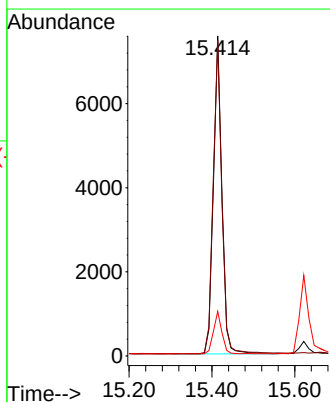
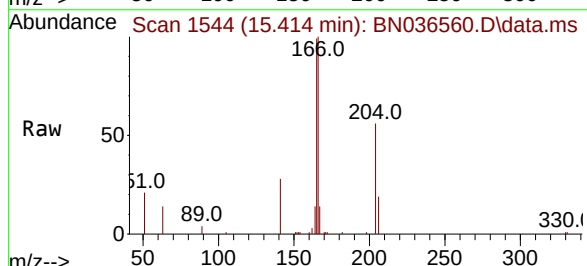
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

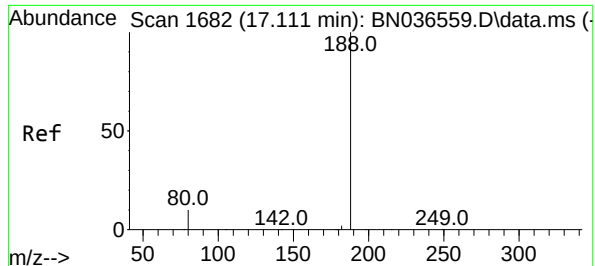
Tgt Ion:154 Resp: 8096
Ion Ratio Lower Upper
154 100
153 117.8 94.1 141.1
152 60.9 49.8 74.6



#18
Fluorene
Concen: 0.770 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:166 Resp: 11120
Ion Ratio Lower Upper
166 100
165 99.8 79.8 119.8
167 13.3 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

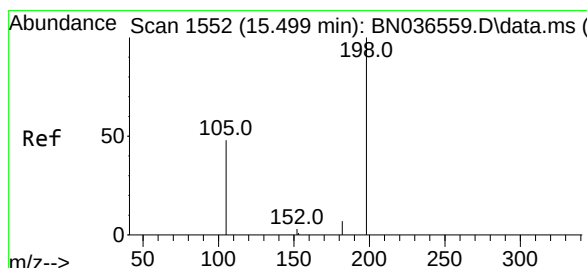
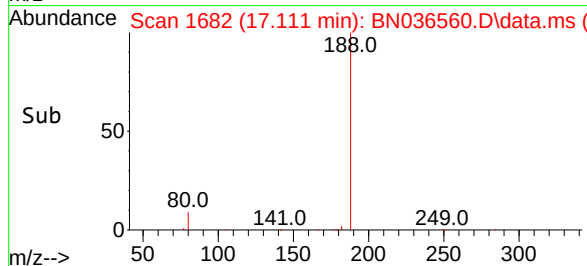
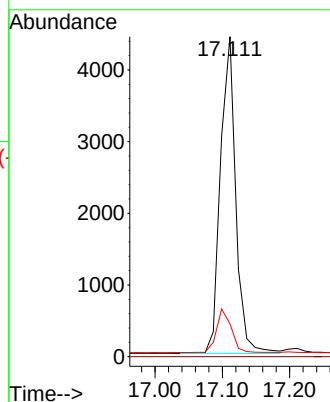
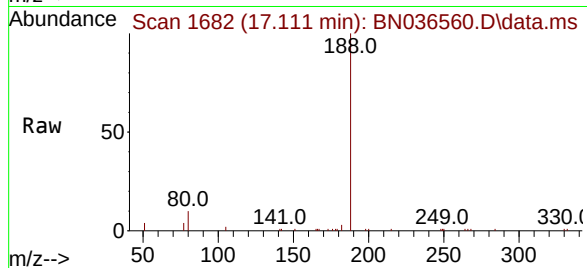
Tgt Ion:188 Resp: 6971

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.724 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

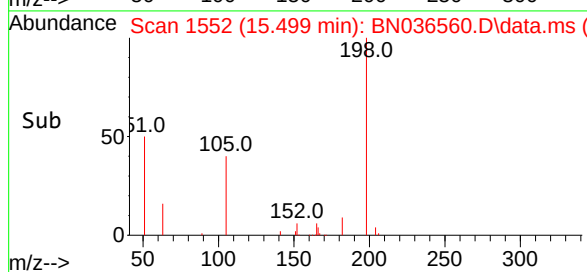
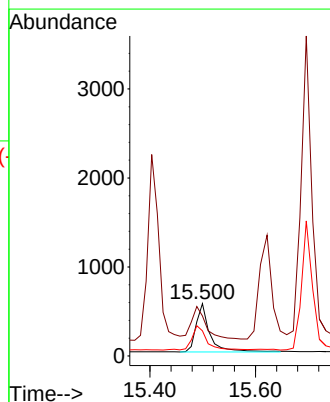
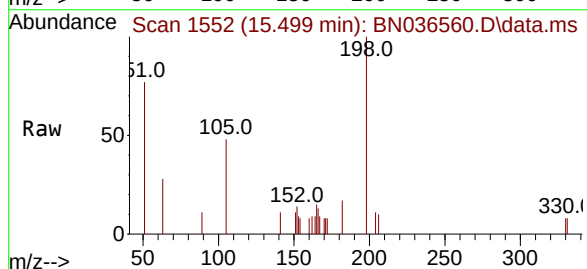
Tgt Ion:198 Resp: 1039

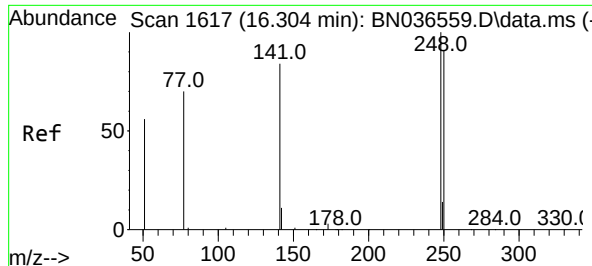
Ion Ratio Lower Upper

198 100

51 76.5 107.9 161.9#

105 48.1 56.2 84.2#

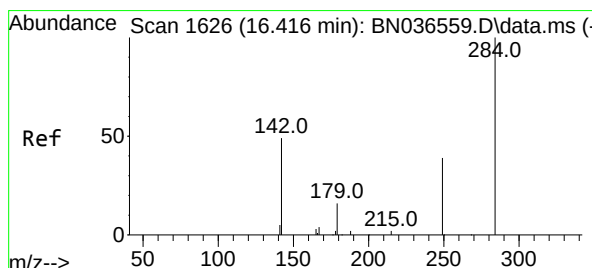
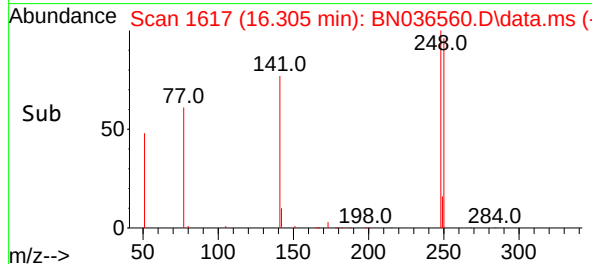
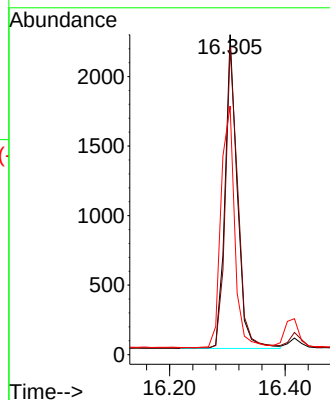
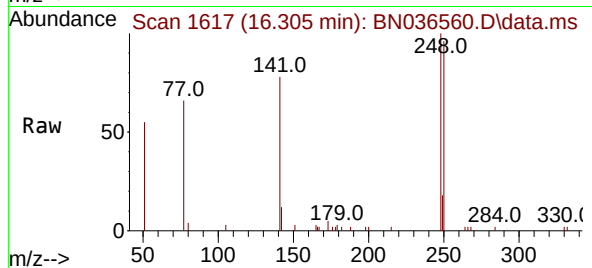




#21
4-Bromophenyl-phenylether
Concen: 0.761 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

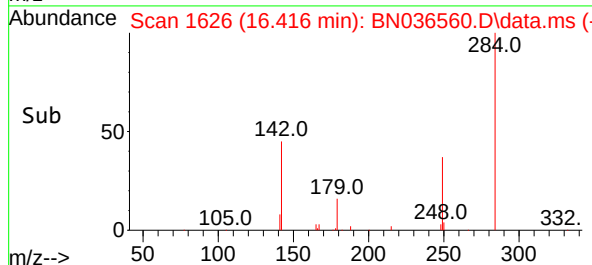
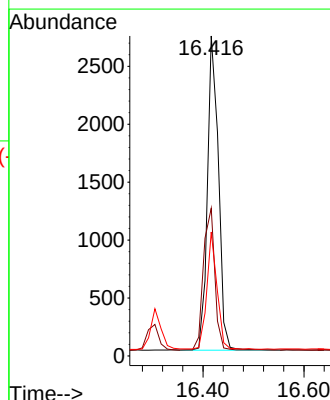
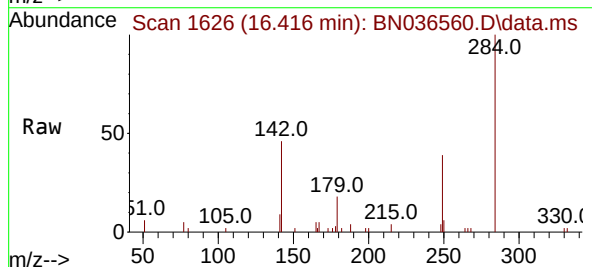
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

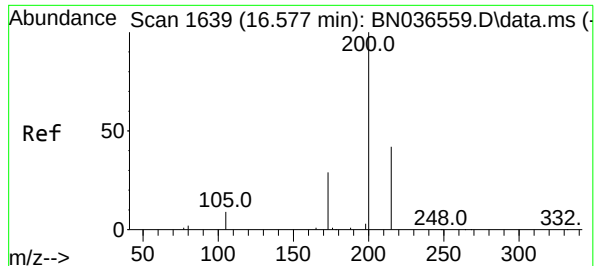
Tgt Ion:248 Resp: 3324
Ion Ratio Lower Upper
248 100
250 96.2 73.0 109.6
141 77.7 68.6 103.0



#22
Hexachlorobenzene
Concen: 0.780 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:284 Resp: 4115
Ion Ratio Lower Upper
284 100
142 47.2 37.0 55.4
249 34.7 28.1 42.1





#23

Atrazine

Concen: 0.764 ng

RT: 16.578 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

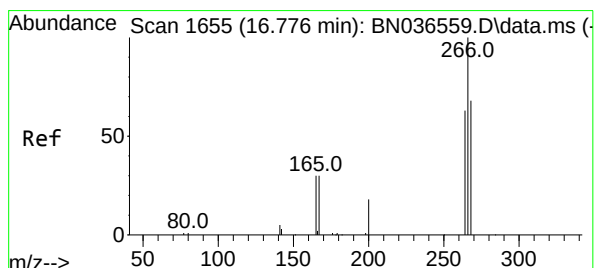
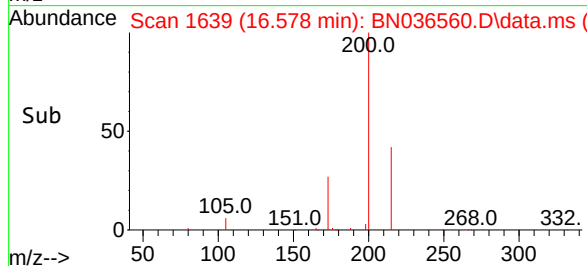
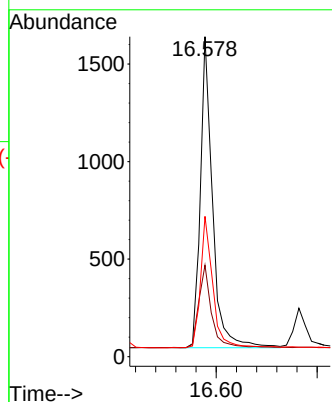
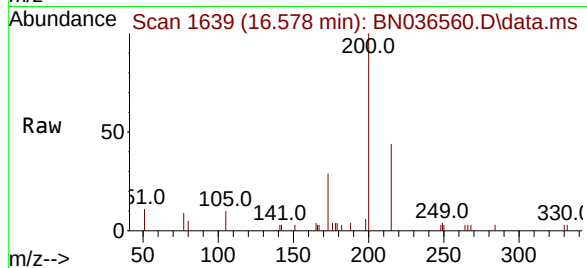
Tgt Ion:200 Resp: 2677

Ion Ratio Lower Upper

200 100

173 28.6 27.3 40.9

215 43.8 36.8 55.2



#24

Pentachlorophenol

Concen: 0.707 ng

RT: 16.764 min Scan# 1654

Delta R.T. -0.012 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

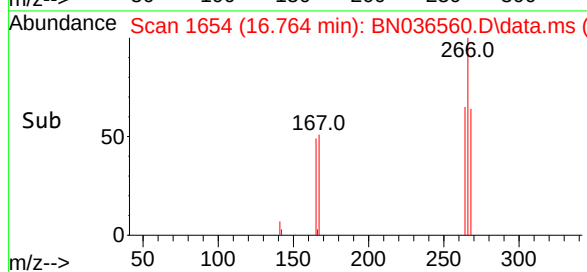
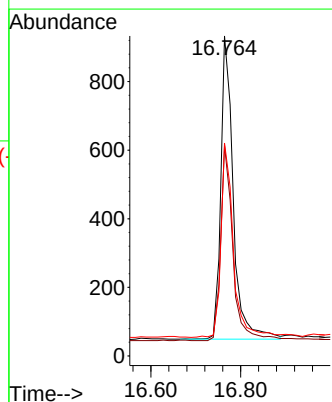
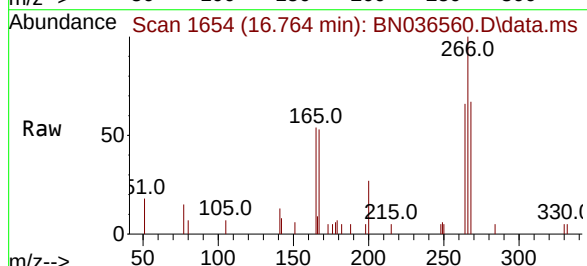
Tgt Ion:266 Resp: 1701

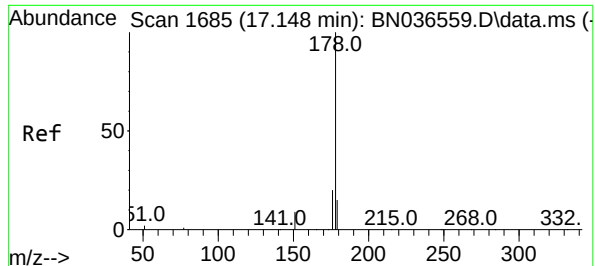
Ion Ratio Lower Upper

266 100

264 63.5 49.6 74.4

268 65.1 50.9 76.3

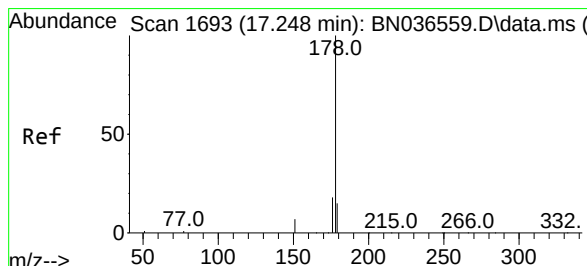
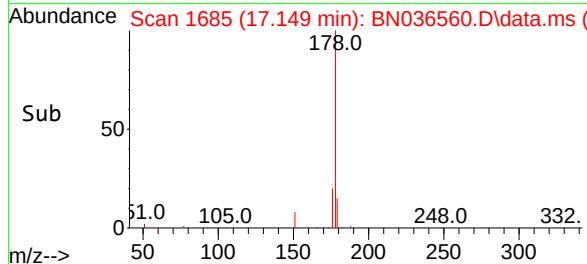
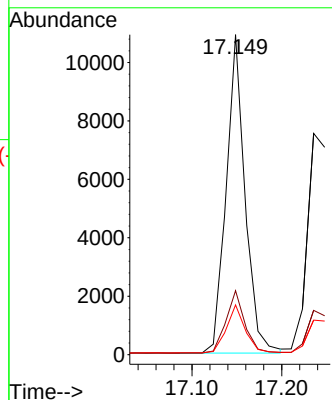
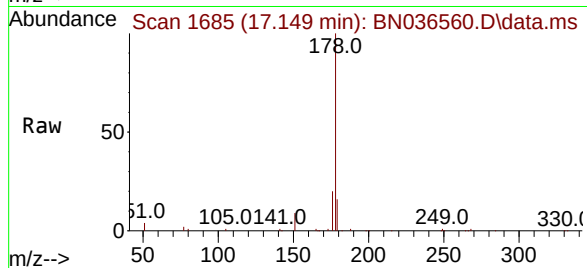




#25
Phenanthrene
Concen: 0.761 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

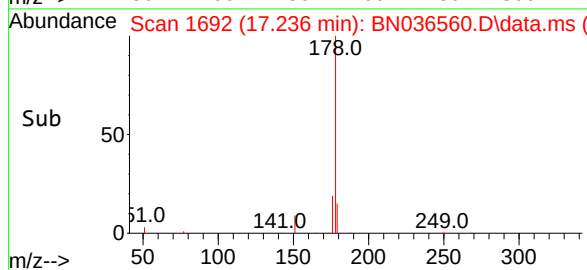
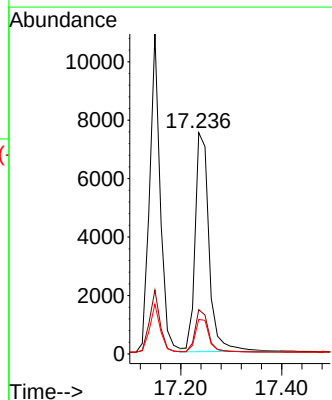
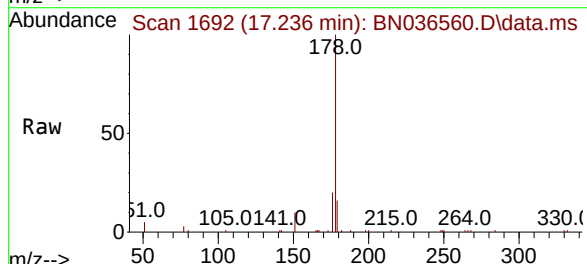
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

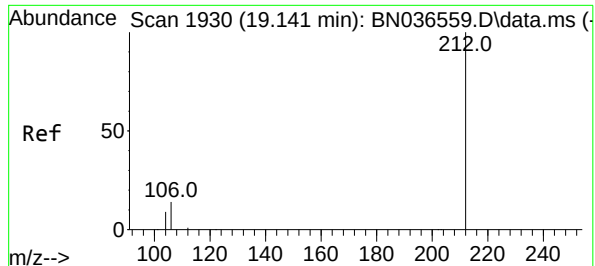
Tgt Ion:178 Resp: 15910
Ion Ratio Lower Upper
178 100
176 19.6 15.9 23.9
179 15.1 12.2 18.4



#26
Anthracene
Concen: 0.763 ng
RT: 17.236 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:178 Resp: 14403
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 15.1 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.746 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

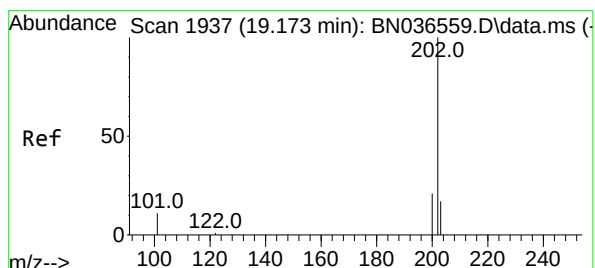
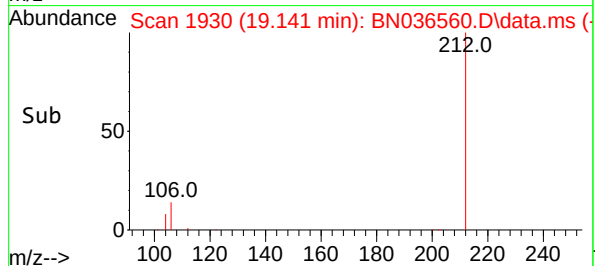
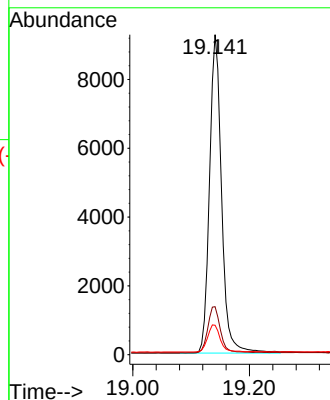
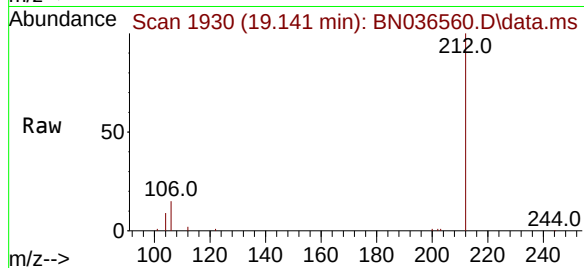
Tgt Ion:212 Resp: 13330

Ion Ratio Lower Upper

212 100

106 15.2 11.8 17.6

104 8.9 7.3 10.9



#28

Fluoranthene

Concen: 0.755 ng

RT: 19.174 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

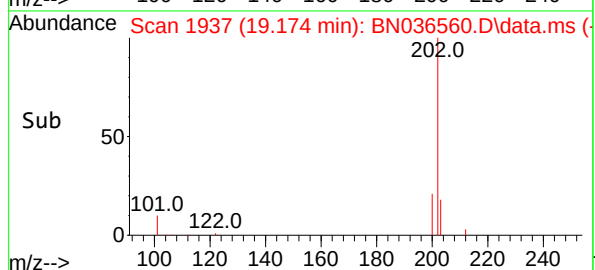
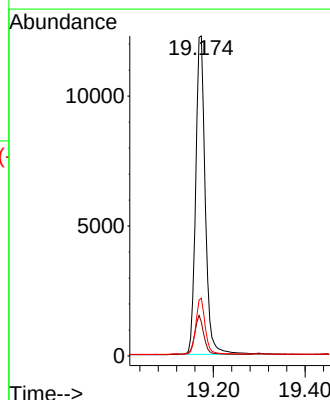
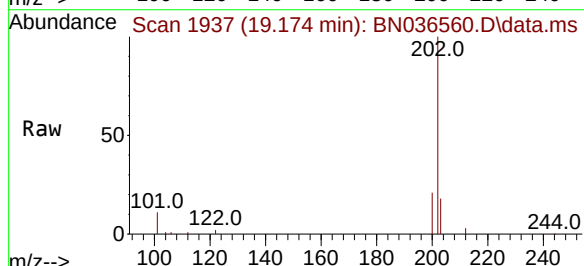
Tgt Ion:202 Resp: 17738

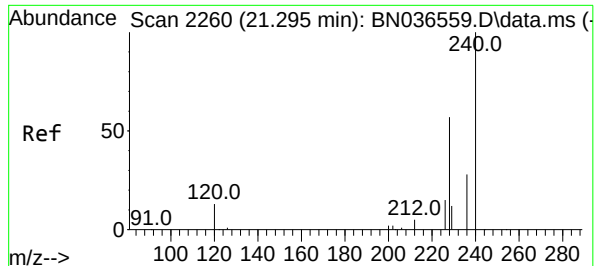
Ion Ratio Lower Upper

202 100

101 12.1 9.4 14.0

203 17.0 13.5 20.3

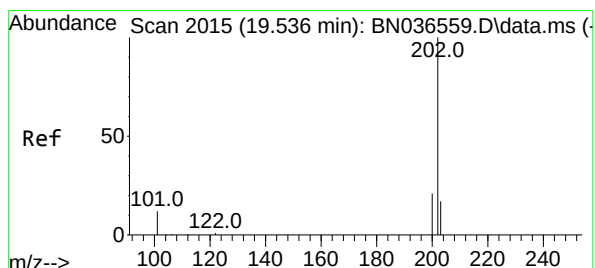
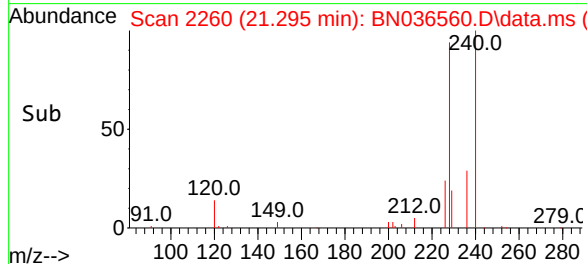
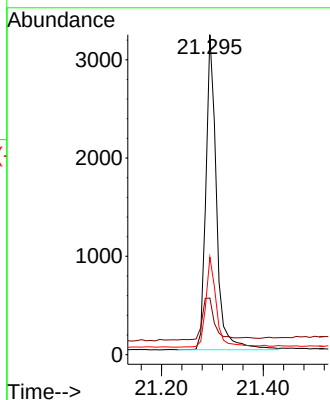
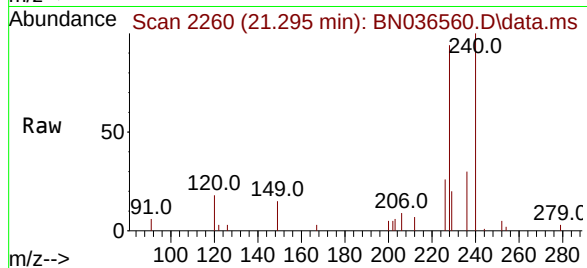




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

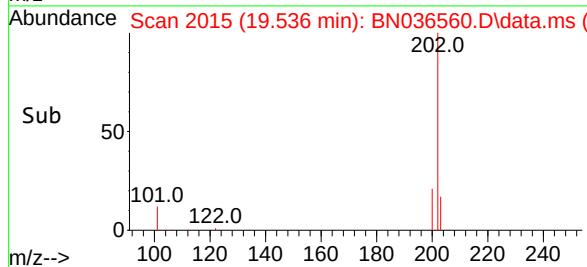
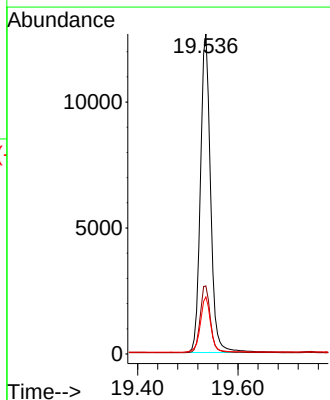
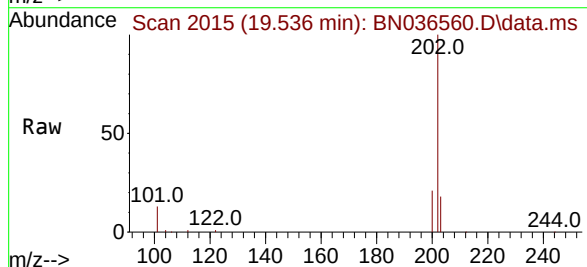
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

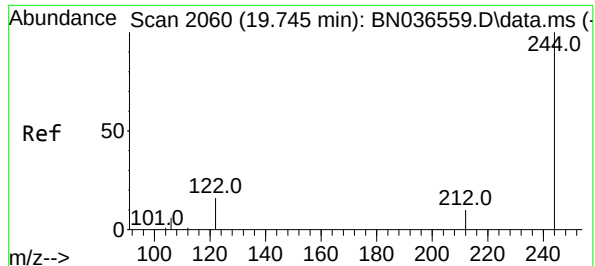
Tgt Ion:240 Resp: 4636
Ion Ratio Lower Upper
240 100
120 17.7 14.6 22.0
236 30.5 24.1 36.1



#30
Pyrene
Concen: 0.781 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036560.D
Acq: 10 Mar 2025 13:31

Tgt Ion:202 Resp: 17714
Ion Ratio Lower Upper
202 100
200 21.4 17.1 25.7
203 17.5 14.1 21.1





#31

Terphenyl-d14

Concen: 0.772 ng

RT: 19.745 min Scan# 2060

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

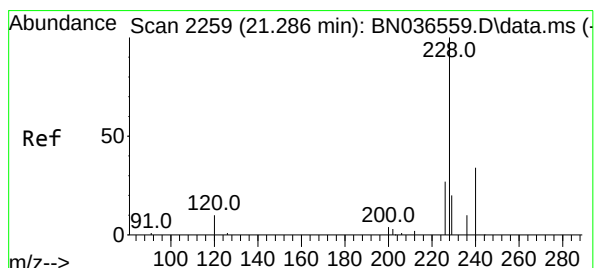
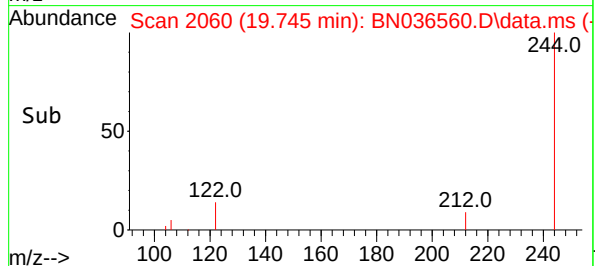
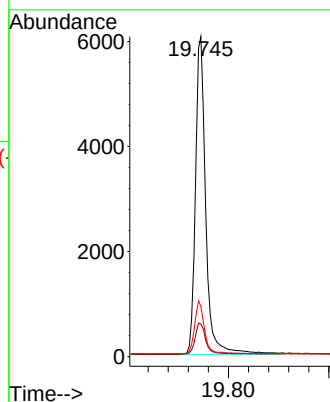
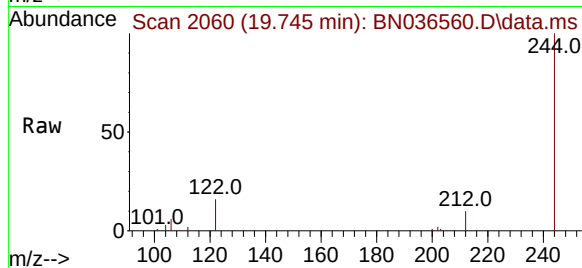
Tgt Ion:244 Resp: 8571

Ion Ratio Lower Upper

244 100

212 10.1 9.6 14.4

122 15.8 13.9 20.9



#32

Benzo(a)anthracene

Concen: 0.750 ng

RT: 21.277 min Scan# 2258

Delta R.T. -0.009 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

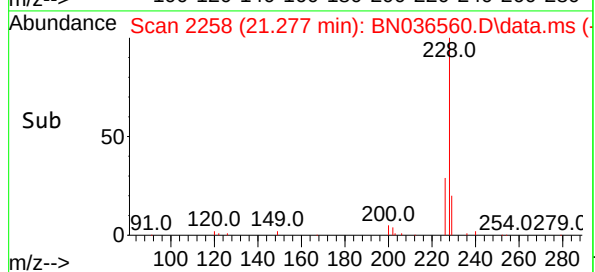
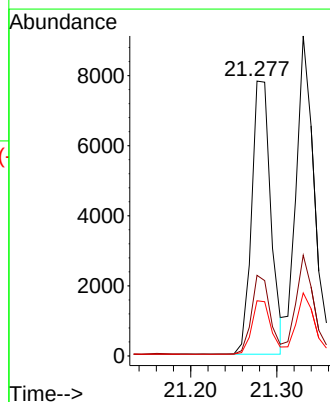
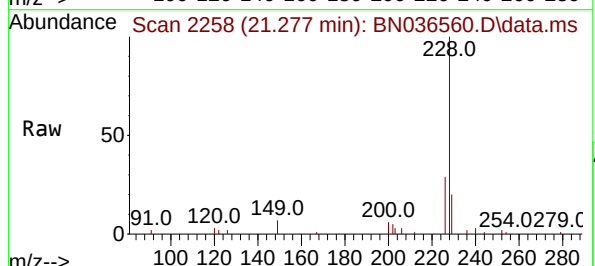
Tgt Ion:228 Resp: 12089

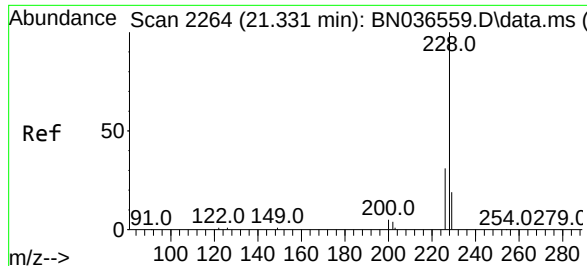
Ion Ratio Lower Upper

228 100

226 29.3 22.5 33.7

229 20.1 16.6 25.0





#33

Chrysene

Concen: 0.793 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

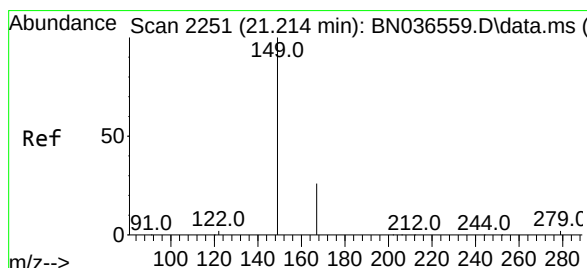
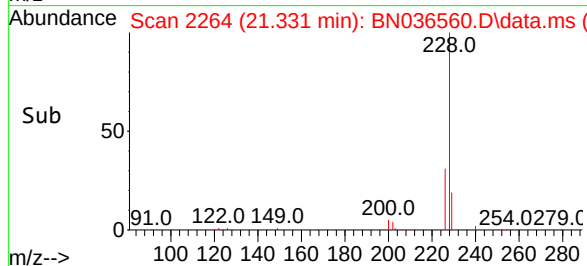
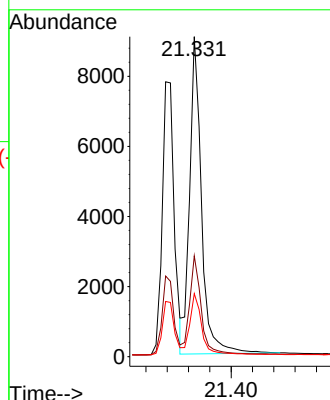
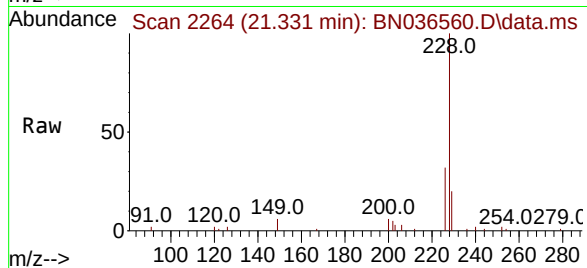
Tgt Ion:228 Resp: 13974

Ion Ratio Lower Upper

228 100

226 31.5 25.3 37.9

229 19.7 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.699 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

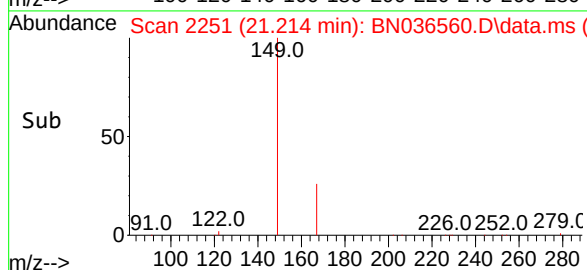
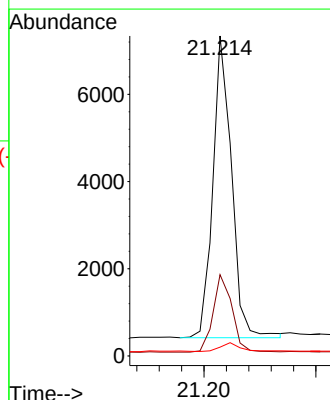
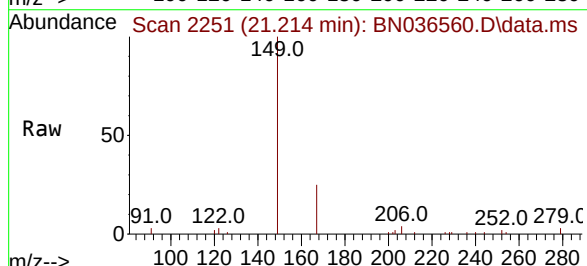
Tgt Ion:149 Resp: 8021

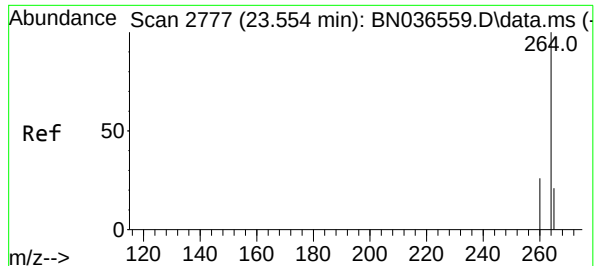
Ion Ratio Lower Upper

149 100

167 25.9 20.7 31.1

279 3.2 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

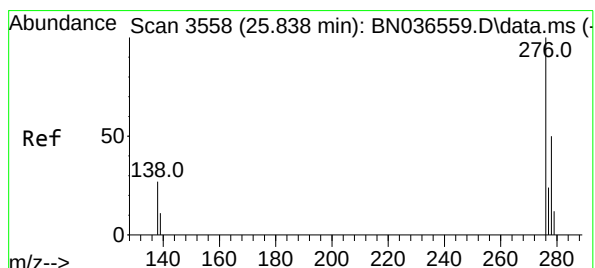
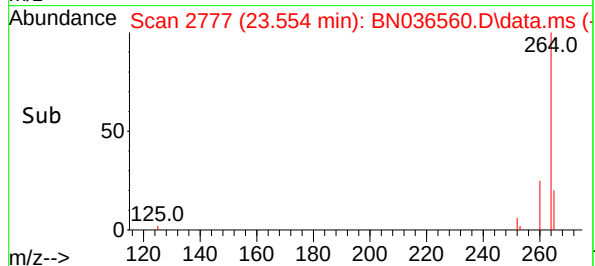
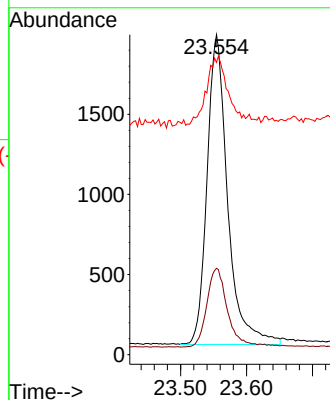
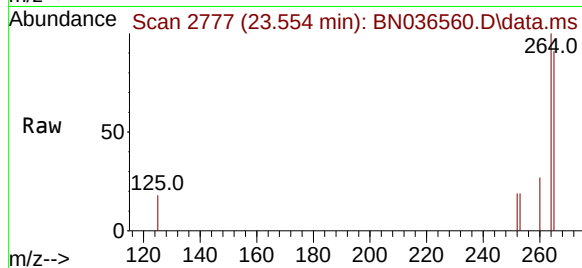
Tgt Ion:264 Resp: 4198

Ion Ratio Lower Upper

264 100

260 27.0 22.6 33.8

265 91.3 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.778 ng

RT: 25.838 min Scan# 3558

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

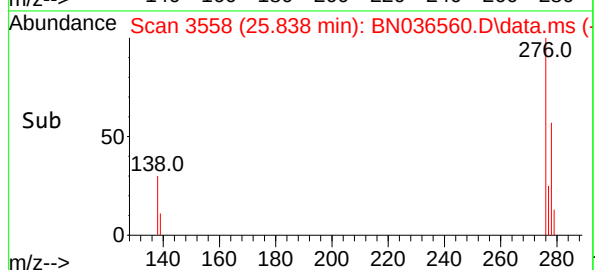
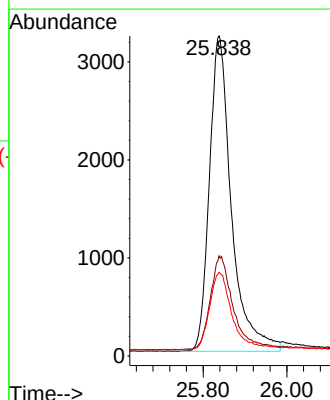
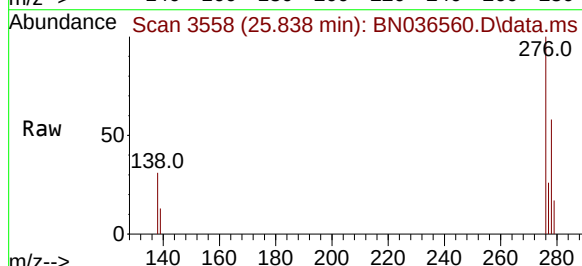
Tgt Ion:276 Resp: 11785

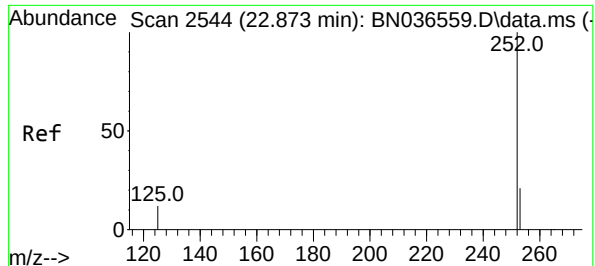
Ion Ratio Lower Upper

276 100

138 29.6 23.4 35.2

277 24.7 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.770 ng

RT: 22.873 min Scan# 2544

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

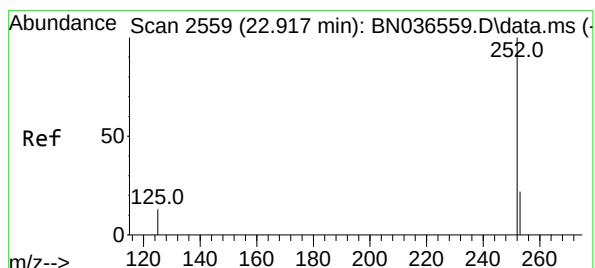
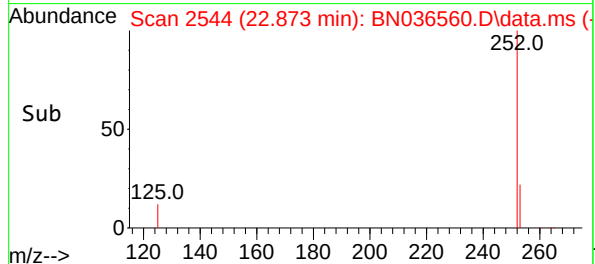
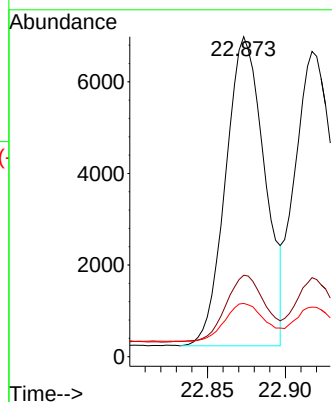
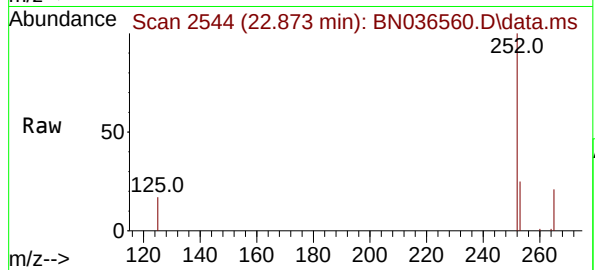
Tgt Ion:252 Resp: 11771

Ion Ratio Lower Upper

252 100

253 25.5 23.9 35.9

125 16.7 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 0.776 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

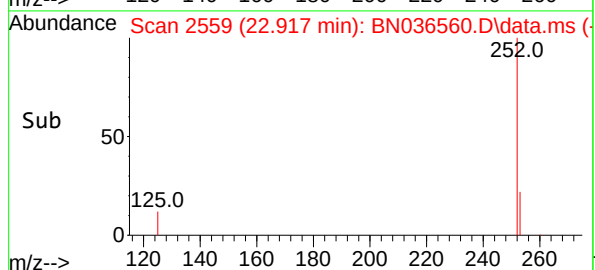
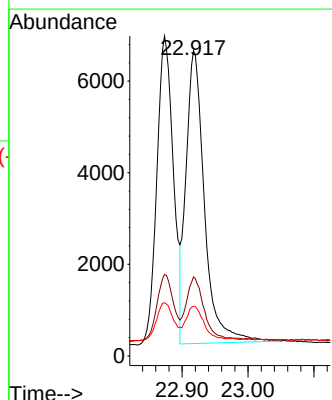
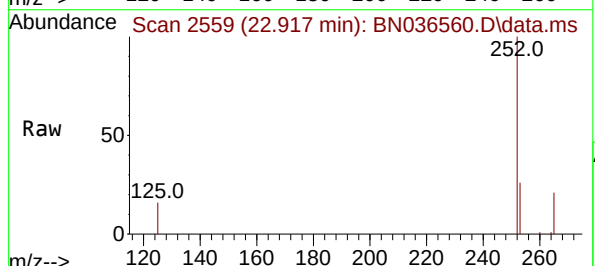
Tgt Ion:252 Resp: 12432

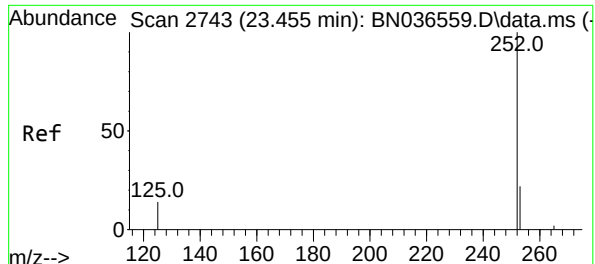
Ion Ratio Lower Upper

252 100

253 25.9 24.6 36.8

125 16.2 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.780 ng

RT: 23.455 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

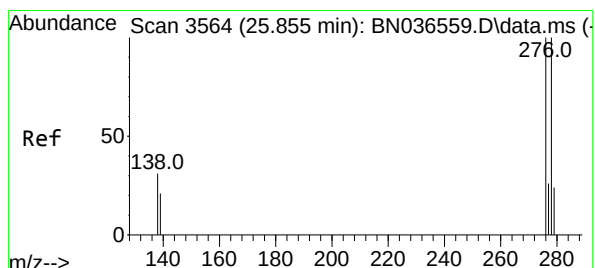
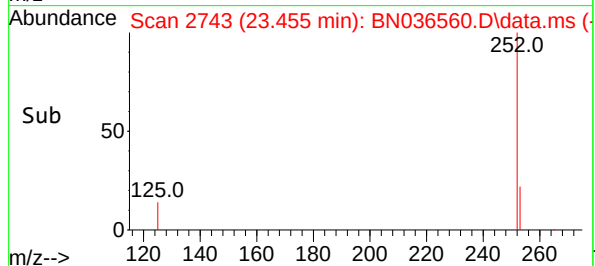
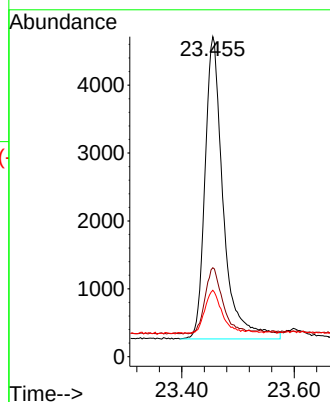
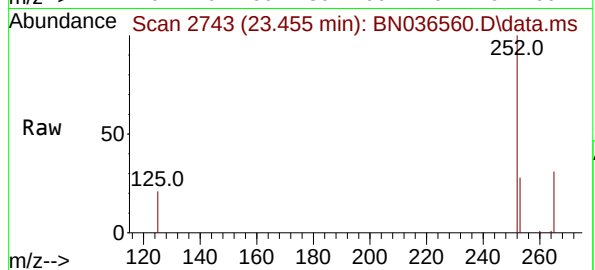
Tgt Ion:252 Resp: 10036

Ion Ratio Lower Upper

252 100

253 27.8 27.8 41.8#

125 20.7 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.801 ng

RT: 25.858 min Scan# 3565

Delta R.T. 0.003 min

Lab File: BN036560.D

Acq: 10 Mar 2025 13:31

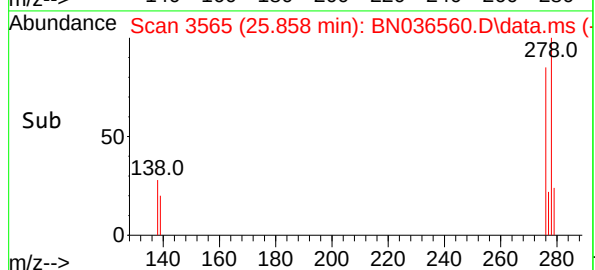
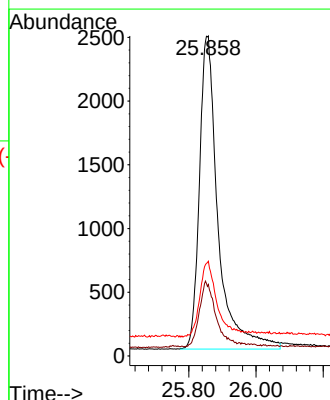
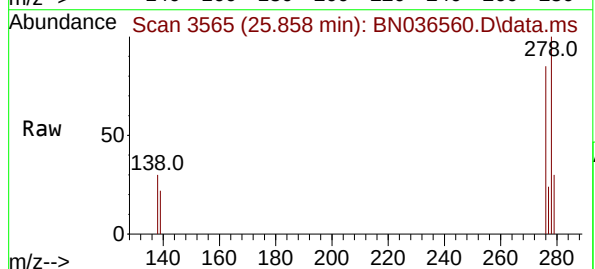
Tgt Ion:278 Resp: 9450

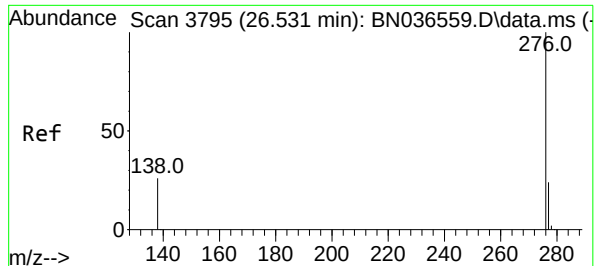
Ion Ratio Lower Upper

278 100

139 22.3 20.8 31.2

279 29.6 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.778 ng

RT: 26.534 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036560.D

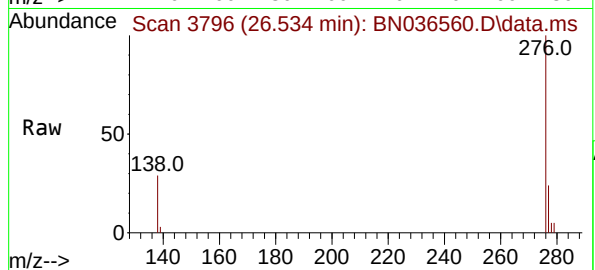
Acq: 10 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



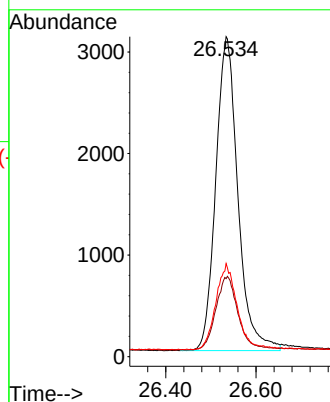
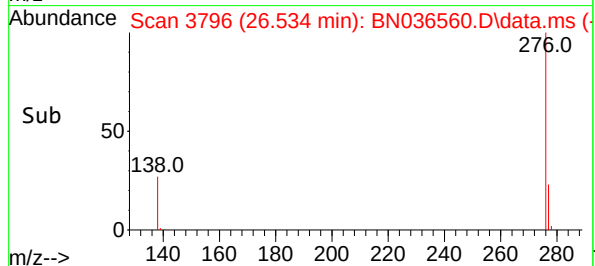
Tgt Ion:276 Resp: 10494

Ion Ratio Lower Upper

276 100

277 24.4 22.2 33.4

138 29.1 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036561.D
 Acq On : 10 Mar 2025 14:07
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Mar 10 16:02:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

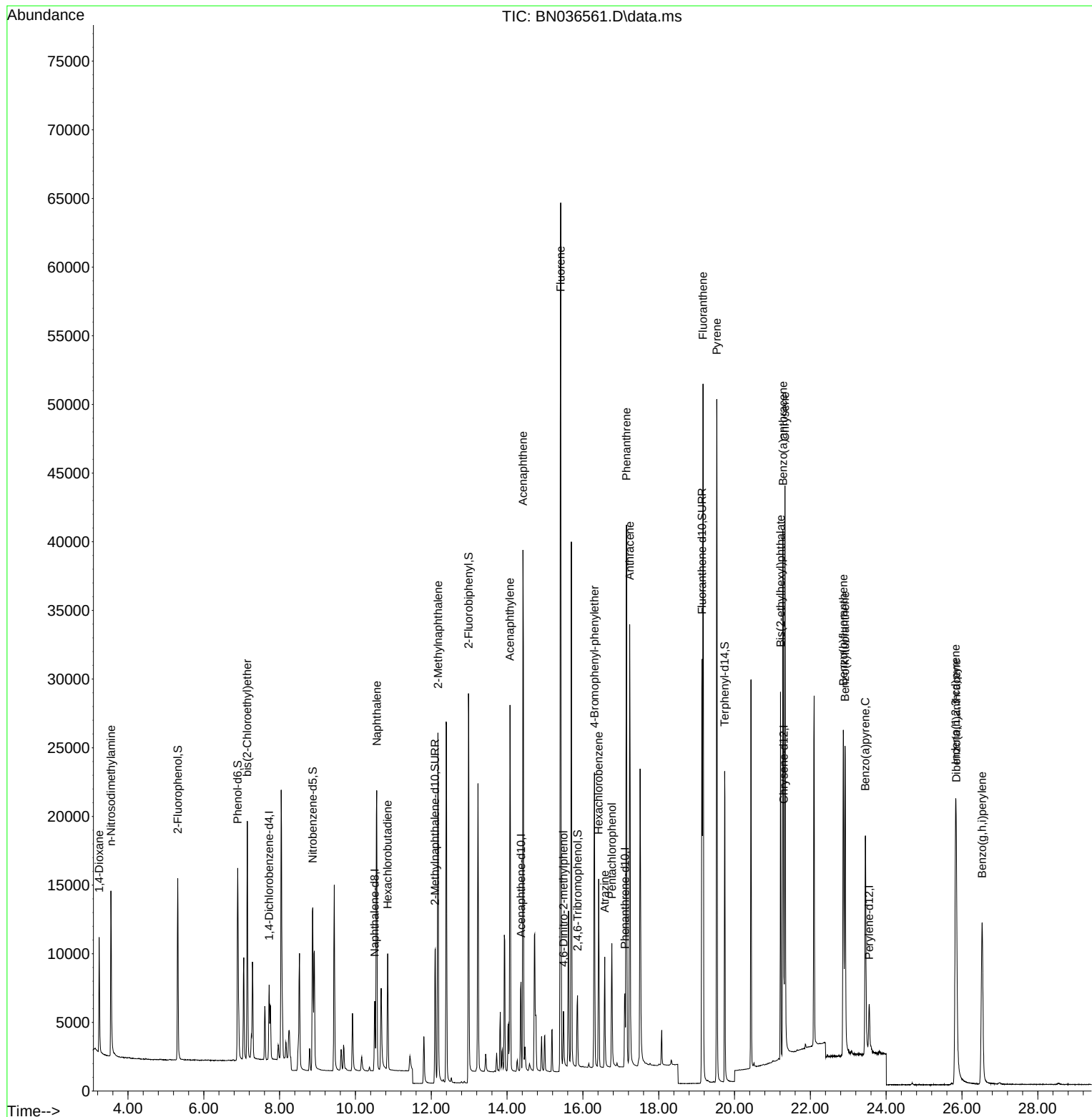
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2537	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6200	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3827	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	8149	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5977	0.400	ng	# 0.00
35) Perylene-d12	23.552	264	5048	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	9276	1.569	ng	0.00
5) Phenol-d6	6.894	99	11493	1.574	ng	0.00
8) Nitrobenzene-d5	8.875	82	9959	1.477	ng	0.00
11) 2-Methylnaphthalene-d10	12.101	152	14319	1.553	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	2872	1.654	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	36192	1.626	ng	0.00
27) Fluoranthene-d10	19.141	212	33414	1.600	ng	0.00
31) Terphenyl-d14	19.740	244	21872	1.527	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	4464	1.586	ng	98
3) n-Nitrosodimethylamine	3.550	42	8625	1.515	ng	# 96
6) bis(2-Chloroethyl)ether	7.147	93	11485	1.521	ng	99
9) Naphthalene	10.562	128	27473	1.506	ng	97
10) Hexachlorobutadiene	10.851	225	6466	1.506	ng	# 99
12) 2-Methylnaphthalene	12.177	142	18206	1.569	ng	98
16) Acenaphthylene	14.078	152	28080	1.555	ng	100
17) Acenaphthene	14.420	154	18355	1.553	ng	98
18) Fluorene	15.414	166	25565	1.599	ng	99
20) 4,6-Dinitro-2-methylph...	15.489	198	2879	1.488	ng	# 64
21) 4-Bromophenyl-phenylether	16.305	248	7859	1.539	ng	# 85
22) Hexachlorobenzene	16.416	284	9216	1.495	ng	100
23) Atrazine	16.578	200	6530	1.595	ng	# 91
24) Pentachlorophenol	16.764	266	4395	1.563	ng	99
25) Phenanthrene	17.149	178	37989	1.554	ng	99
26) Anthracene	17.235	178	35054	1.589	ng	99
28) Fluoranthene	19.169	202	44451	1.619	ng	99
30) Pyrene	19.531	202	44705	1.530	ng	100
32) Benzo(a)anthracene	21.277	228	32205	1.550	ng	98
33) Chrysene	21.331	228	34953	1.539	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	22621	1.529	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.832	276	28605	1.570	ng	99
37) Benzo(b)fluoranthene	22.870	252	29819	1.623	ng	# 86
38) Benzo(k)fluoranthene	22.917	252	30710	1.593	ng	# 85
39) Benzo(a)pyrene	23.452	252	24696	1.596	ng	# 79
40) Dibenzo(a,h)anthracene	25.850	278	22248	1.569	ng	# 85
41) Benzo(g,h,i)perylene	26.531	276	24906	1.535	ng	93

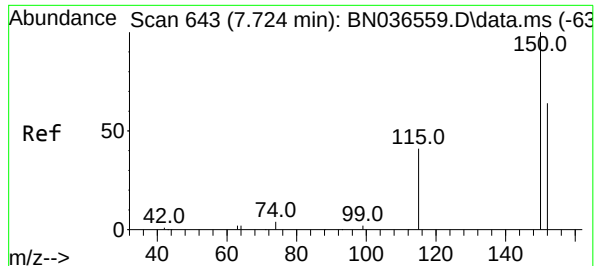
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036561.D
Acq On : 10 Mar 2025 14:07
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Mar 10 16:02:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

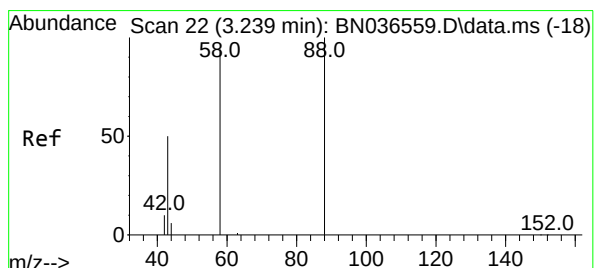
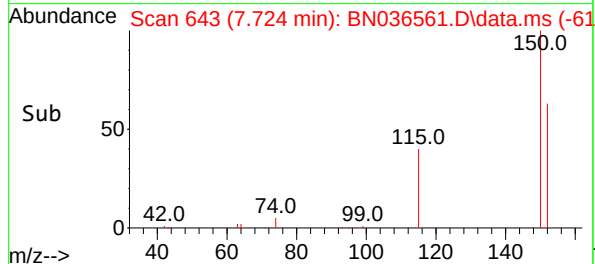
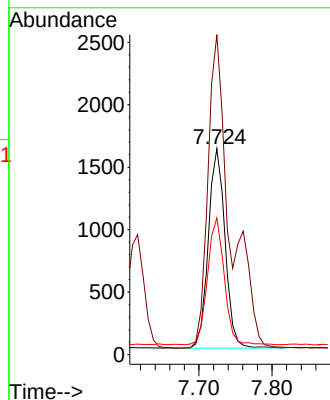
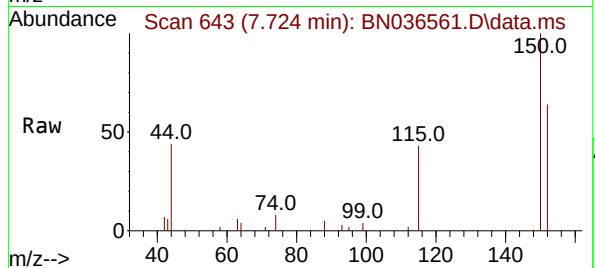




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

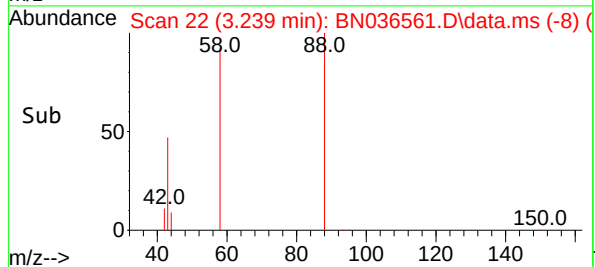
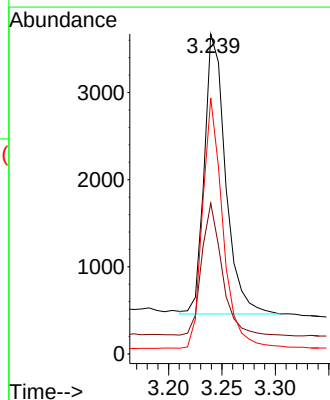
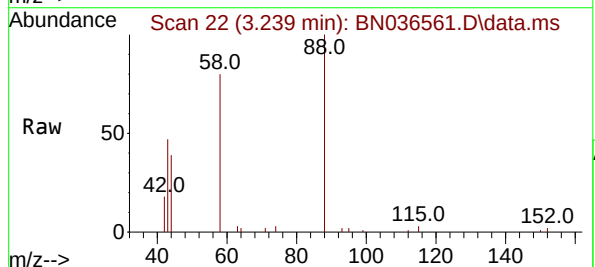
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

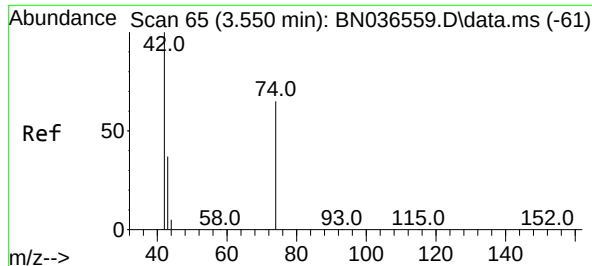
Tgt Ion:152 Resp: 2537
Ion Ratio Lower Upper
152 100
150 155.4 123.7 185.5
115 66.4 54.3 81.5



#2
1,4-Dioxane
Concen: 1.586 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 88 Resp: 4464
Ion Ratio Lower Upper
88 100
43 45.1 37.8 56.8
58 85.6 67.4 101.2

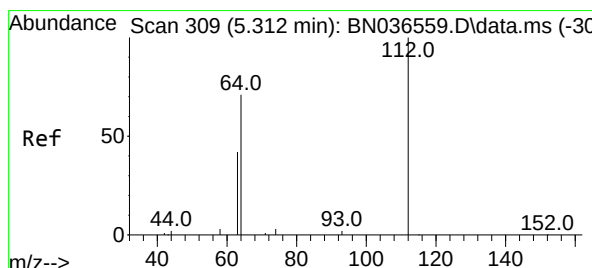
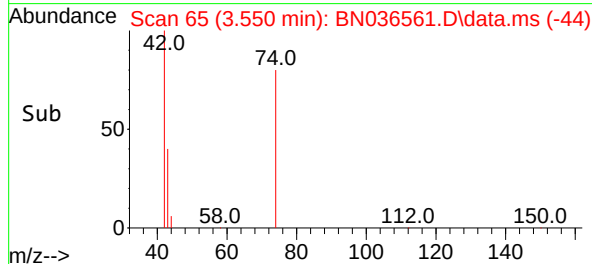
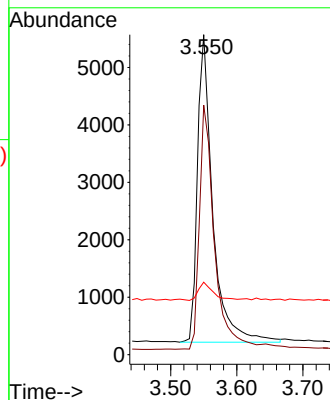
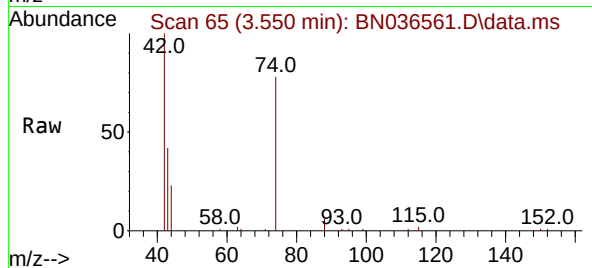




#3
n-Nitrosodimethylamine
Concen: 1.515 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

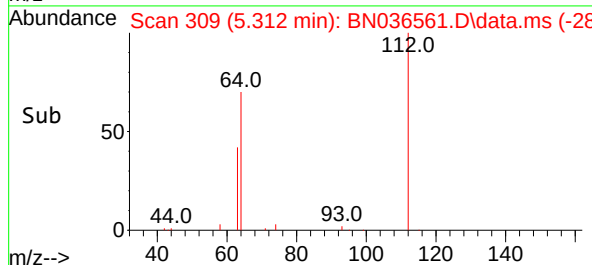
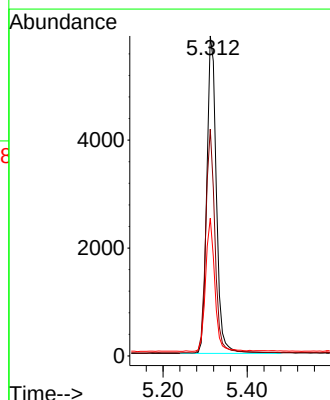
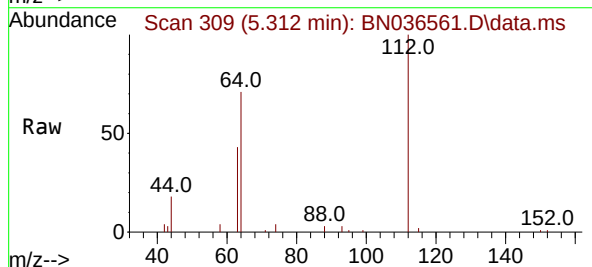
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

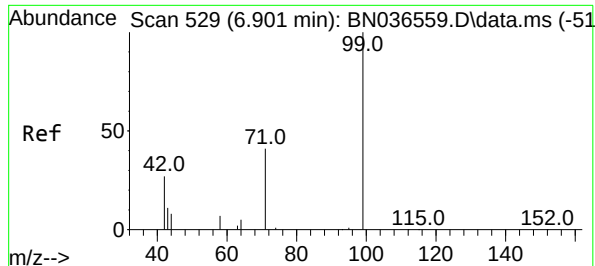
Tgt Ion: 42 Resp: 8625
Ion Ratio Lower Upper
42 100
74 79.2 60.6 90.8
44 5.8 6.3 9.5#



#4
2-Fluorophenol
Concen: 1.569 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 112 Resp: 9276
Ion Ratio Lower Upper
112 100
64 68.3 53.1 79.7
63 40.1 31.8 47.8

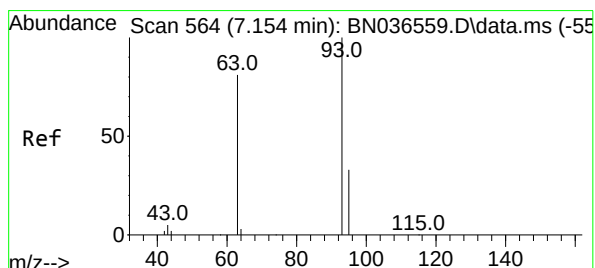
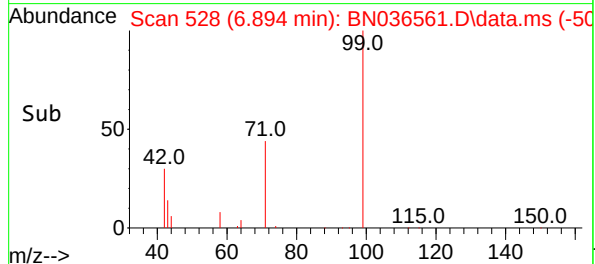
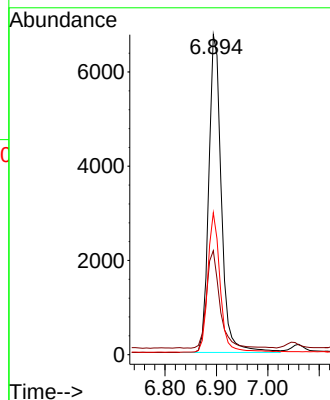
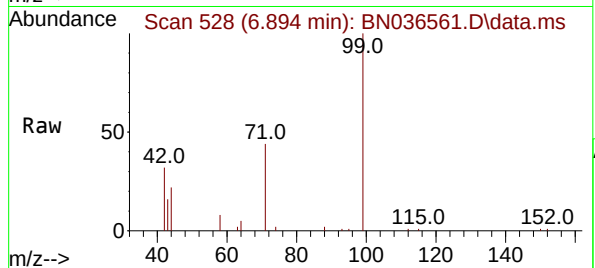




#5
Phenol-d6
Concen: 1.574 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

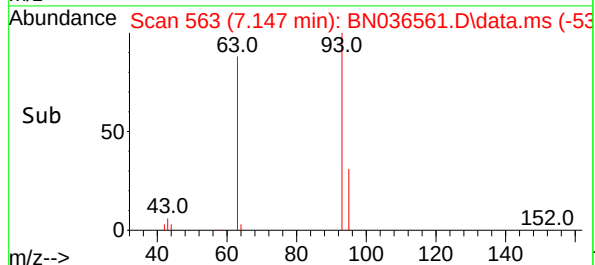
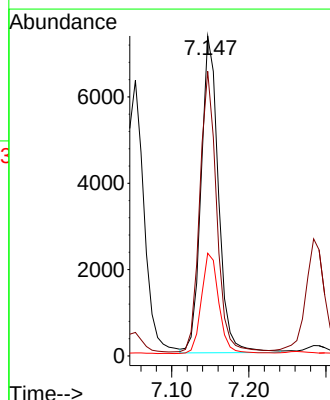
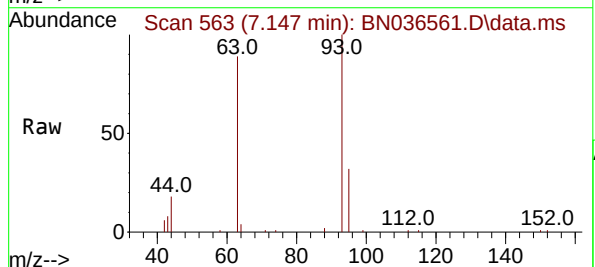
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

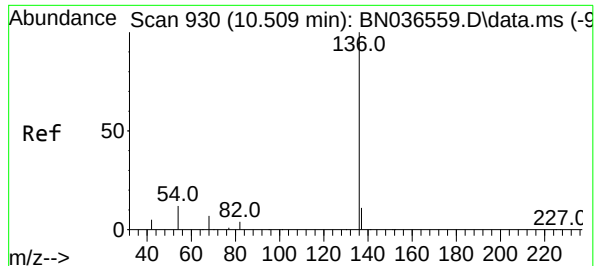
Tgt Ion: 99 Resp: 11493
Ion Ratio Lower Upper
99 100
42 32.6 26.5 39.7
71 43.3 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 1.521 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion: 93 Resp: 11485
Ion Ratio Lower Upper
93 100
63 85.8 67.7 101.5
95 31.8 25.6 38.4

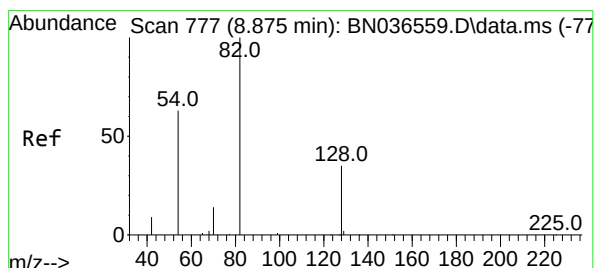
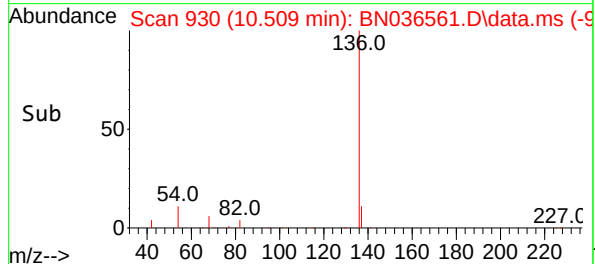
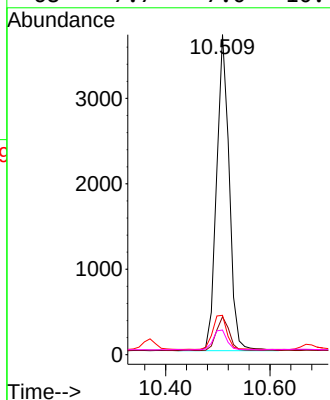
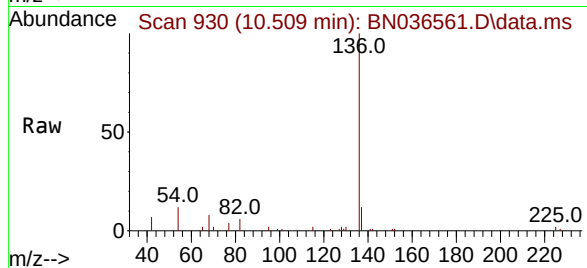




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

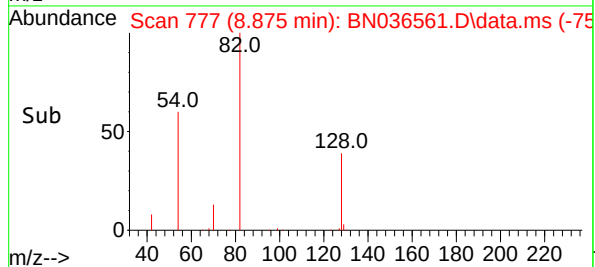
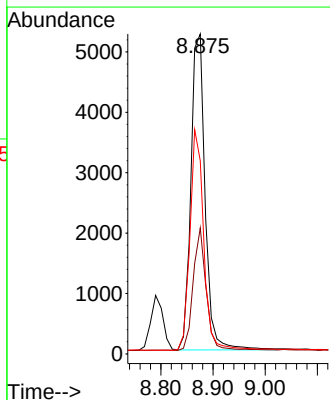
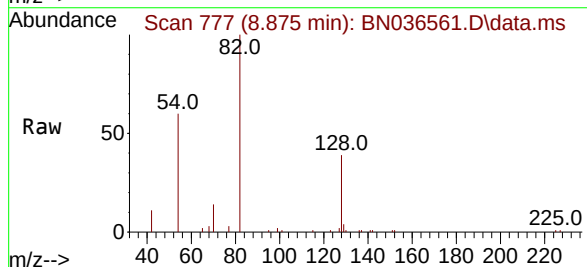
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

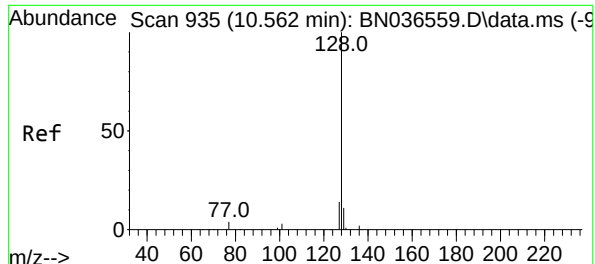
Tgt Ion:	136	Resp:	6200
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	12.3	11.5	17.3
68	7.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 1.477 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:	82	Resp:	9959
Ion	Ratio	Lower	Upper
82	100		
128	39.4	30.6	45.8
54	60.4	52.2	78.4





#9

Naphthalene

Concen: 1.506 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

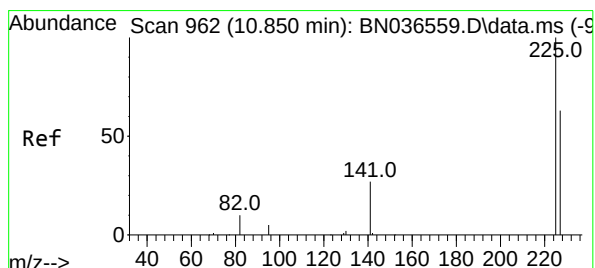
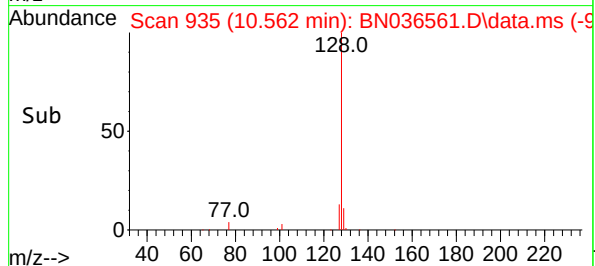
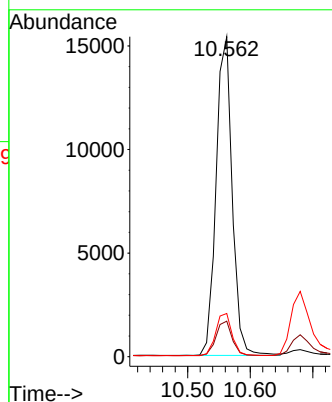
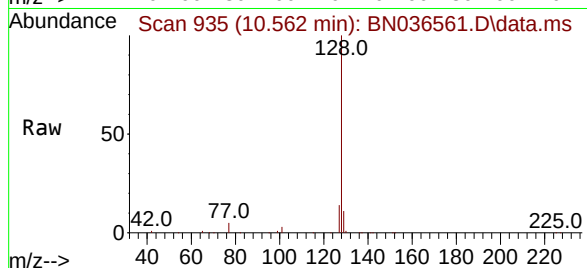
Tgt Ion:128 Resp: 27473

Ion Ratio Lower Upper

128 100

129 11.1 9.8 14.6

127 13.5 11.8 17.8



#10

Hexachlorobutadiene

Concen: 1.506 ng

RT: 10.851 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

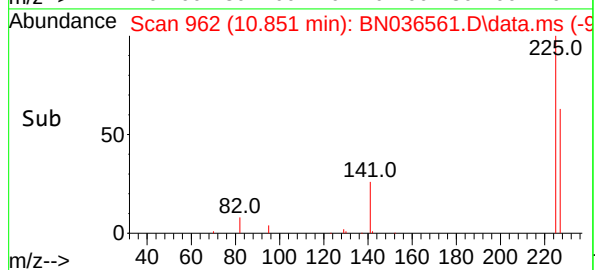
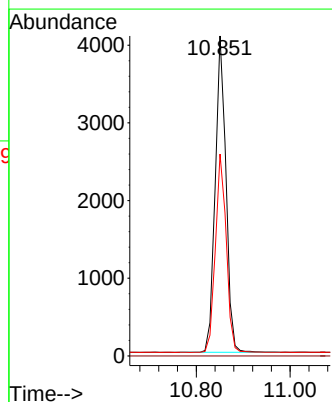
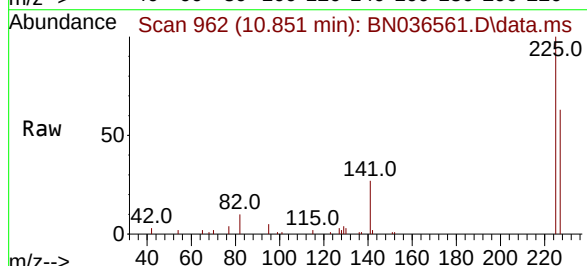
Tgt Ion:225 Resp: 6466

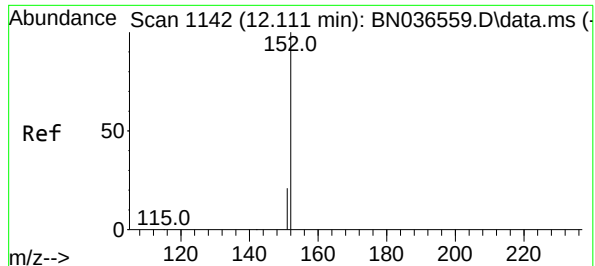
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.8 51.8 77.8

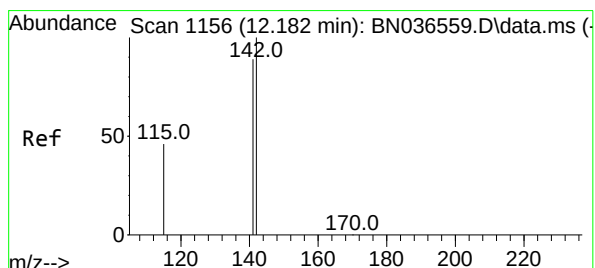
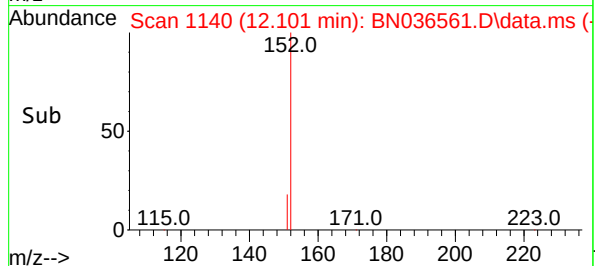
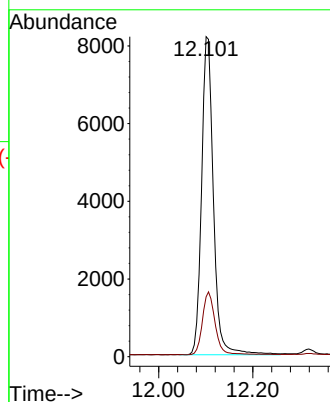
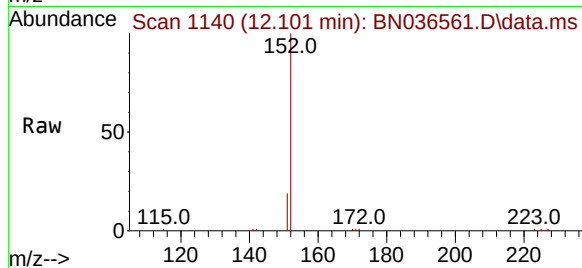




#11
2-Methylnaphthalene-d10
Concen: 1.553 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

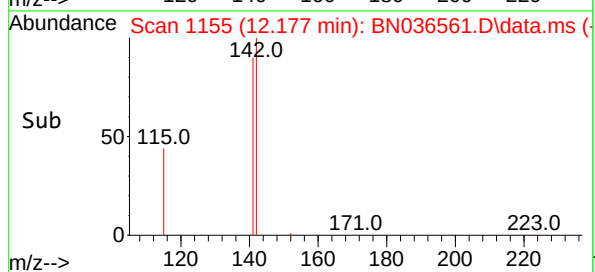
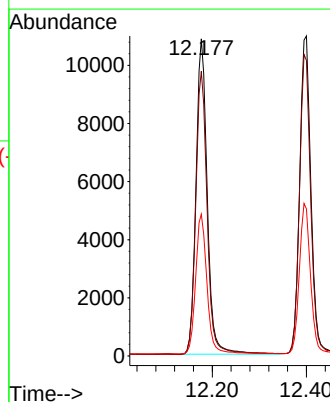
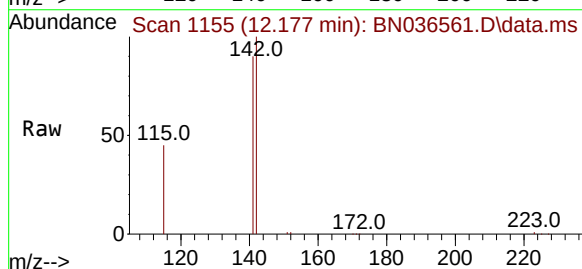
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

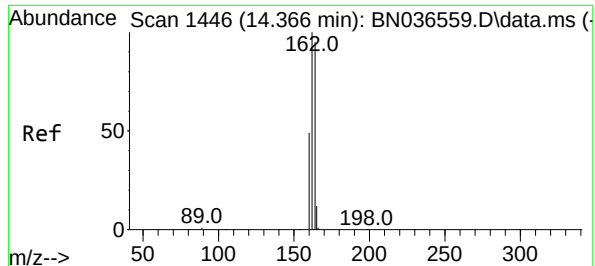
Tgt Ion:152 Resp: 14319
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 1.569 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:142 Resp: 18206
Ion Ratio Lower Upper
142 100
141 89.7 71.7 107.5
115 44.7 38.3 57.5

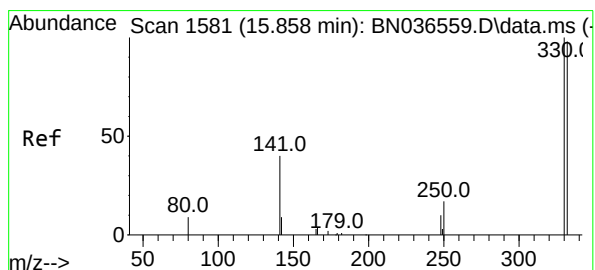
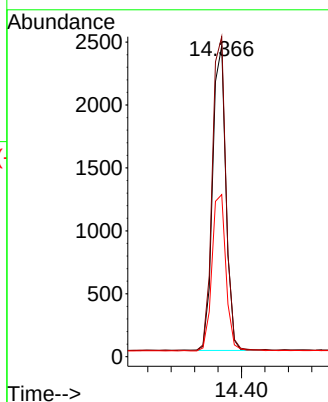
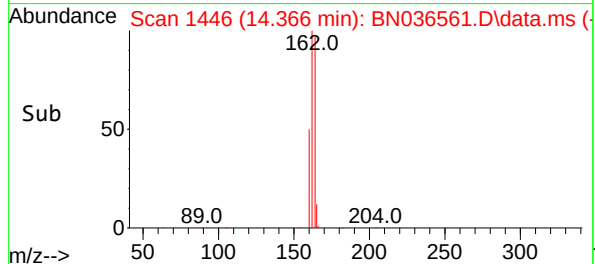
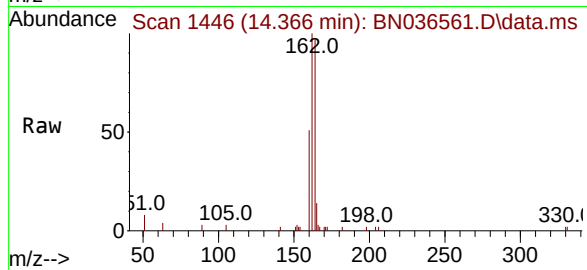




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

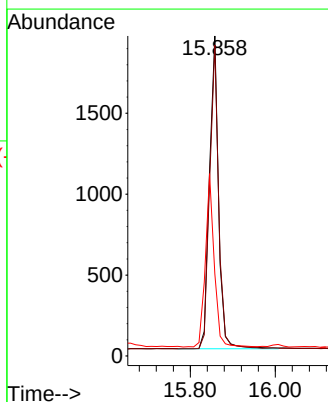
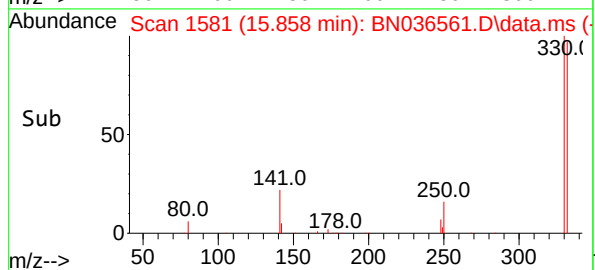
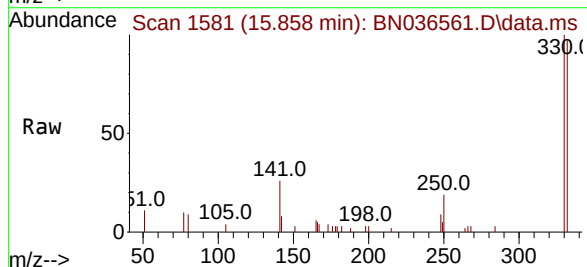
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

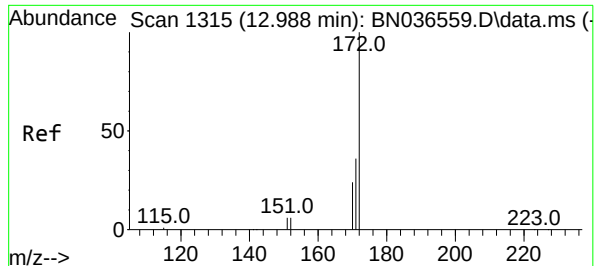
Tgt Ion:164 Resp: 3827
Ion Ratio Lower Upper
164 100
162 102.9 84.2 126.2
160 52.1 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 1.654 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:330 Resp: 2872
Ion Ratio Lower Upper
330 100
332 96.3 75.2 112.8
141 53.8 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 1.626 ng

RT: 12.983 min Scan# 1314

Delta R.T. -0.005 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

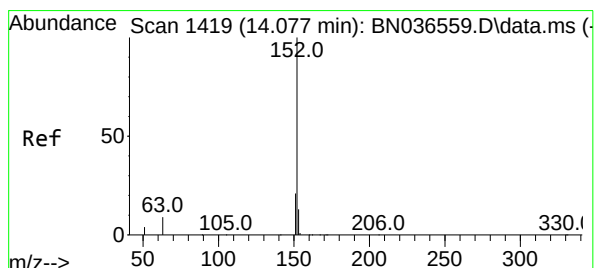
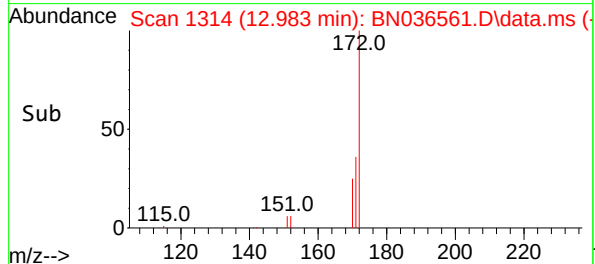
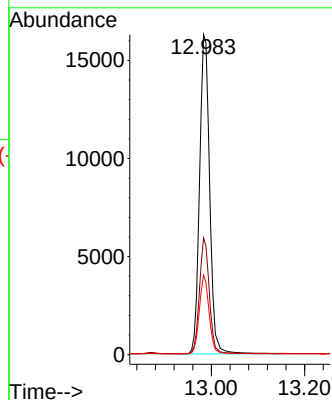
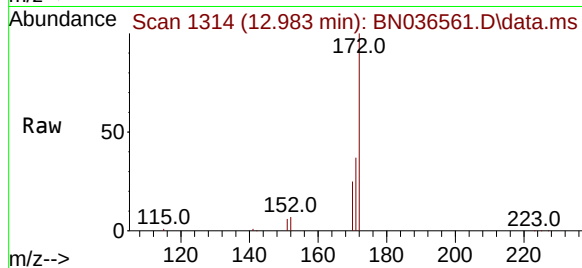
Tgt Ion:172 Resp: 36192

Ion Ratio Lower Upper

172 100

171 36.5 29.5 44.3

170 24.9 20.2 30.4



#16

Acenaphthylene

Concen: 1.555 ng

RT: 14.078 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

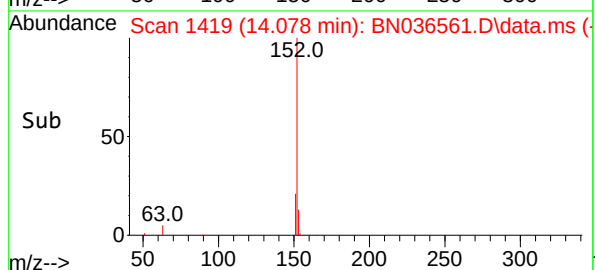
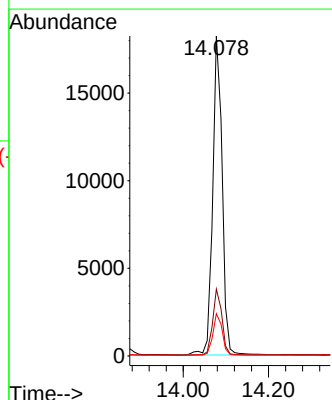
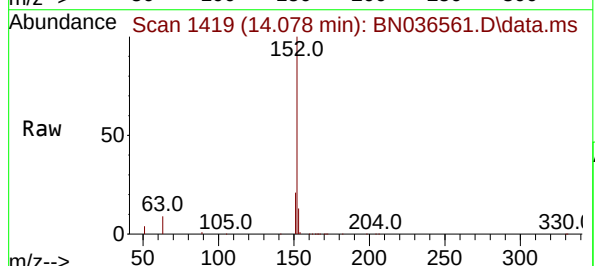
Tgt Ion:152 Resp: 28080

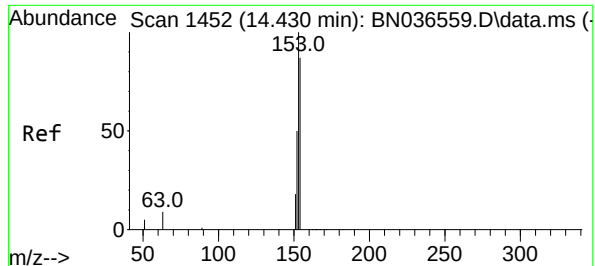
Ion Ratio Lower Upper

152 100

151 20.3 16.2 24.4

153 13.0 10.6 15.8





#17

Acenaphthene

Concen: 1.553 ng

RT: 14.420 min Scan# 1451

Delta R.T. -0.011 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

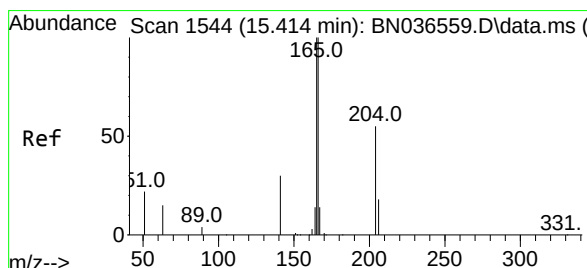
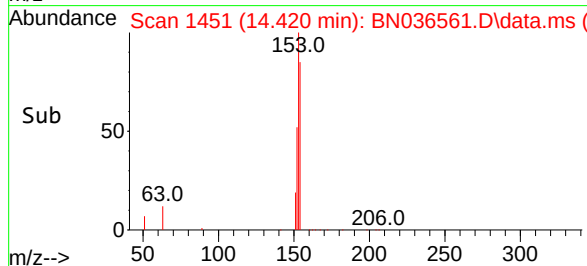
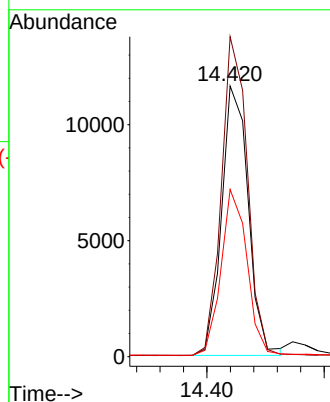
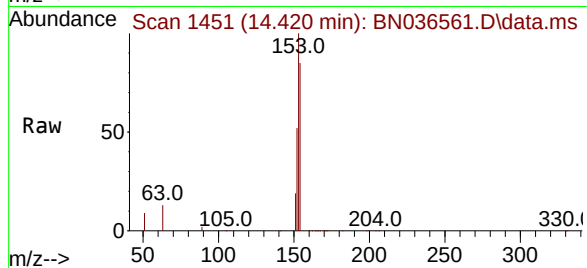
Tgt Ion:154 Resp: 18355

Ion Ratio Lower Upper

154 100

153 115.7 94.1 141.1

152 60.3 49.8 74.6



#18

Fluorene

Concen: 1.599 ng

RT: 15.414 min Scan# 1544

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

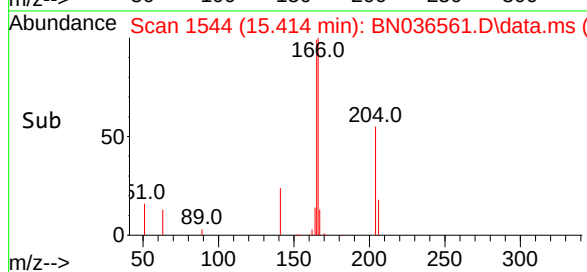
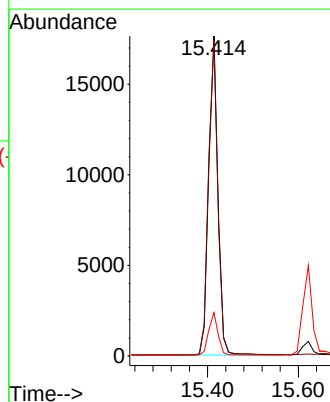
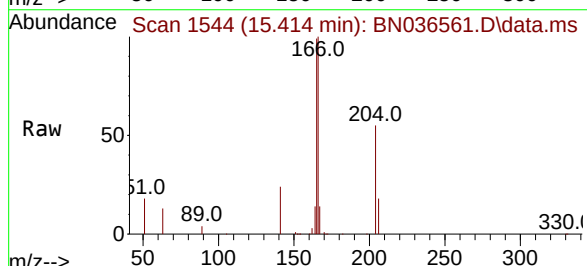
Tgt Ion:166 Resp: 25565

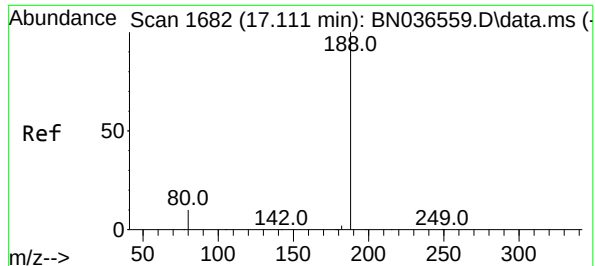
Ion Ratio Lower Upper

166 100

165 100.5 79.8 119.8

167 13.1 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

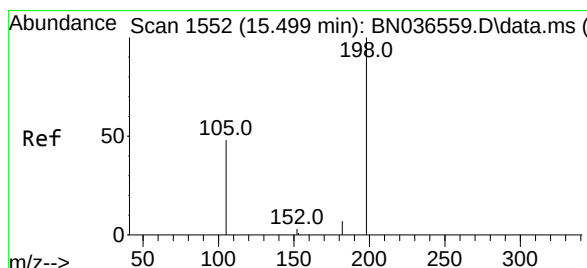
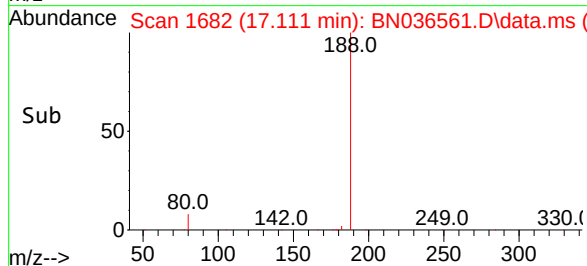
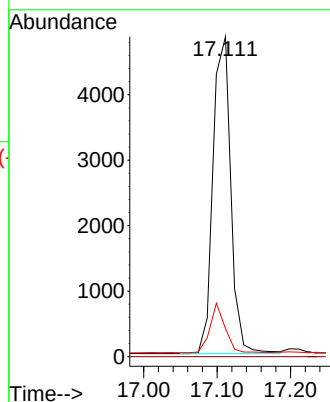
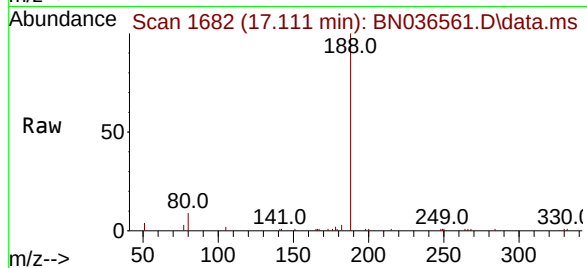
Tgt Ion:188 Resp: 8149

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.8 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 1.488 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.010 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

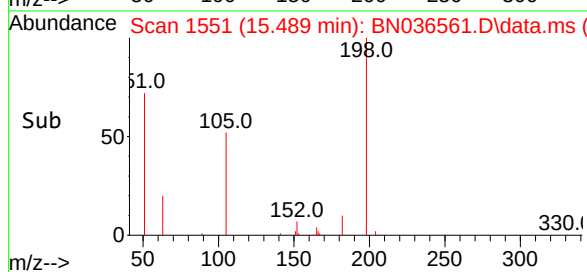
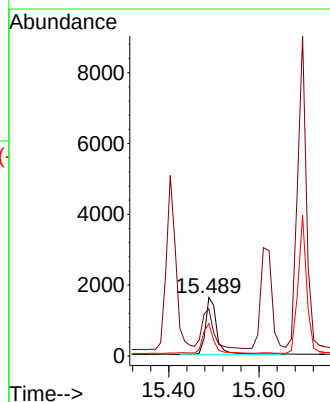
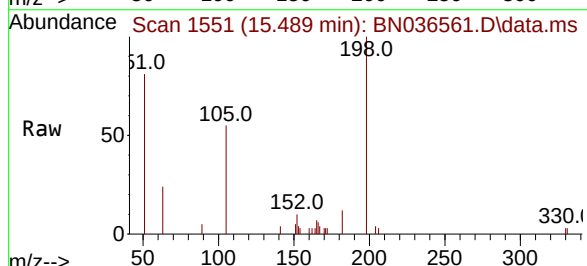
Tgt Ion:198 Resp: 2879

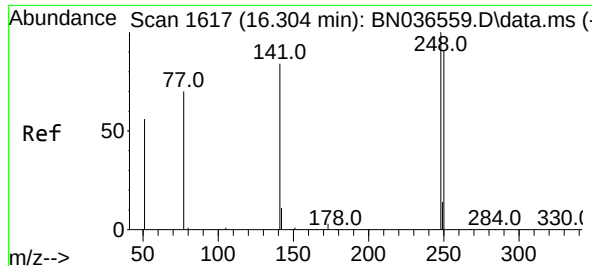
Ion Ratio Lower Upper

198 100

51 81.2 107.9 161.9#

105 55.5 56.2 84.2#

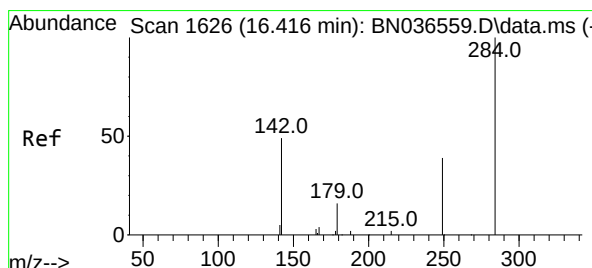
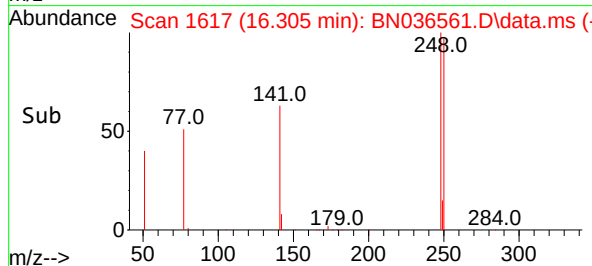
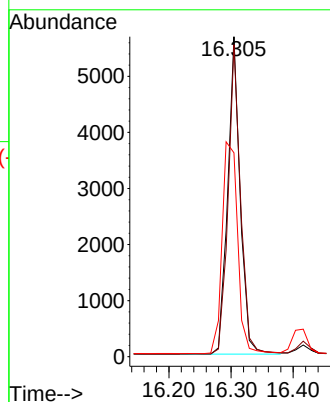
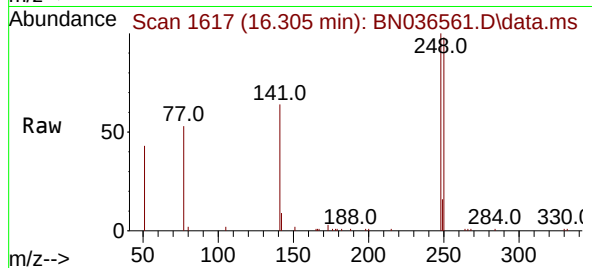




#21
4-Bromophenyl-phenylether
Concen: 1.539 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

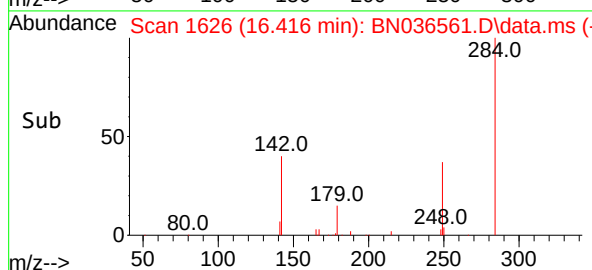
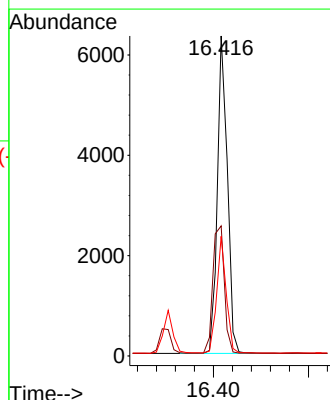
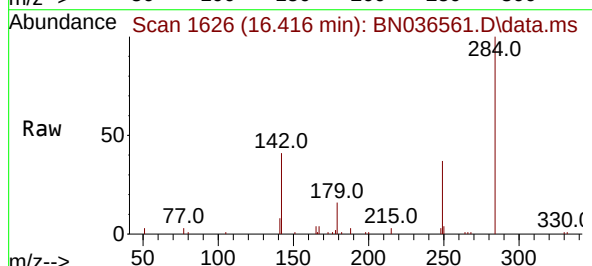
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

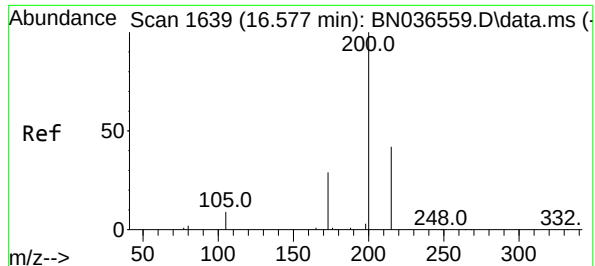
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.5	73.0	109.6
141	63.7	68.6	103.0#



#22
Hexachlorobenzene
Concen: 1.495 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion	Ratio	Lower	Upper
284	100		
142	46.6	37.0	55.4
249	35.1	28.1	42.1

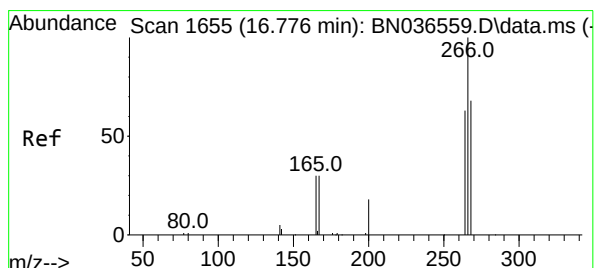
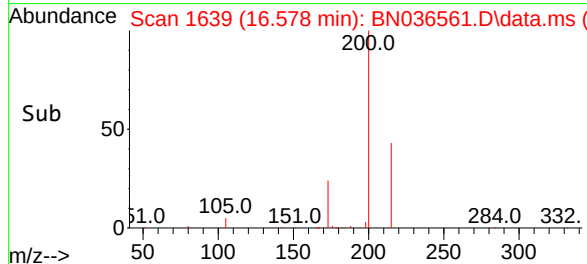
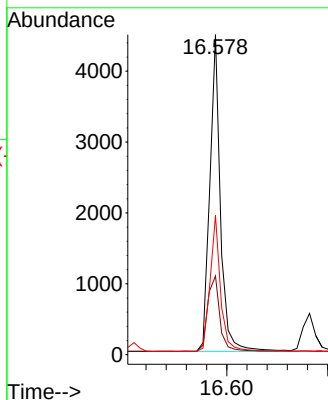
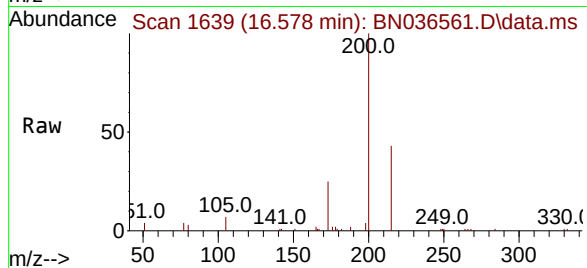




#23
Atrazine
Concen: 1.595 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

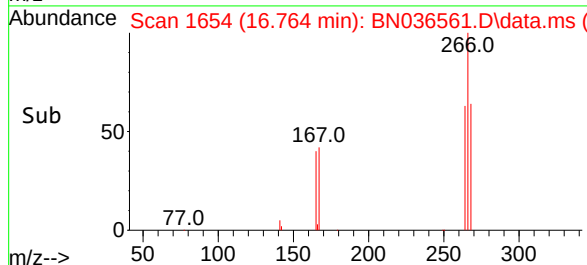
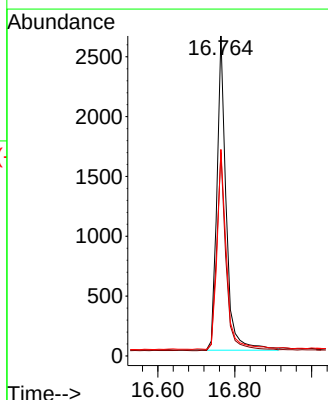
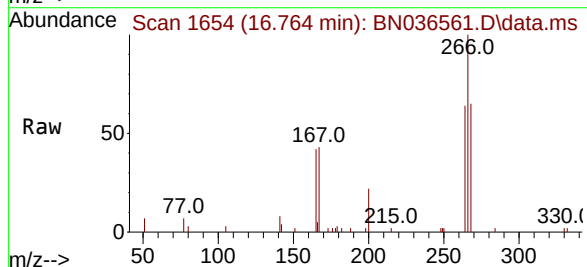
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

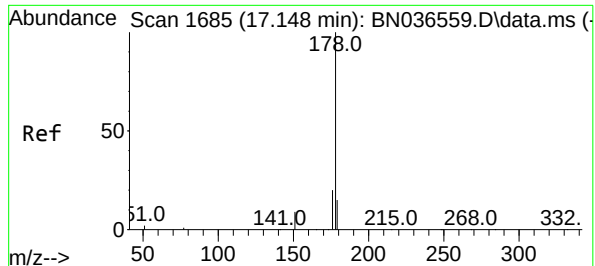
Tgt Ion:200 Resp: 6530
Ion Ratio Lower Upper
200 100
173 24.6 27.3 40.9#
215 43.5 36.8 55.2



#24
Pentachlorophenol
Concen: 1.563 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:266 Resp: 4395
Ion Ratio Lower Upper
266 100
264 63.5 49.6 74.4
268 64.4 50.9 76.3

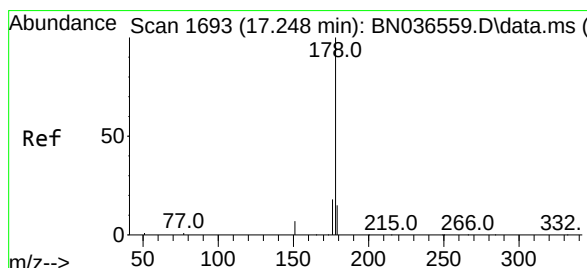
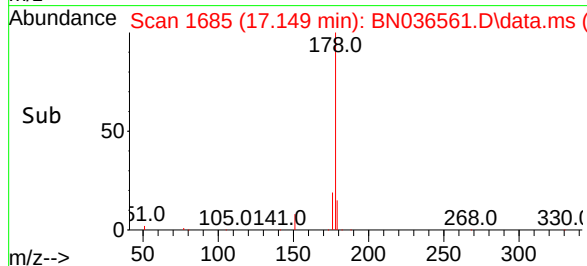
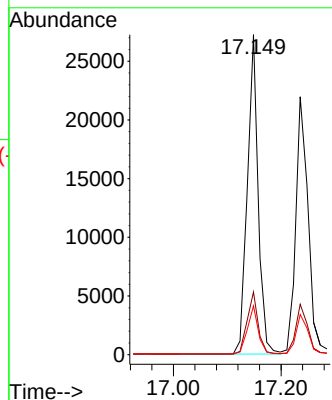
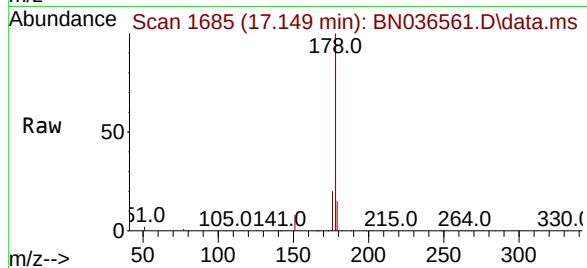




#25
Phenanthrene
Concen: 1.554 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

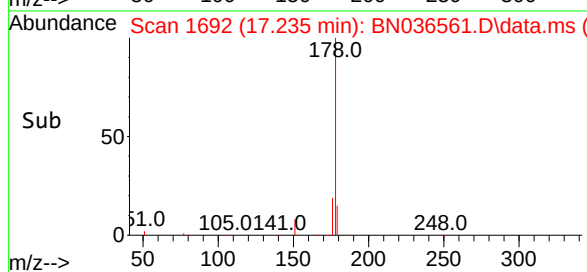
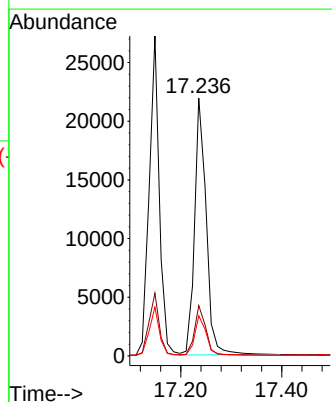
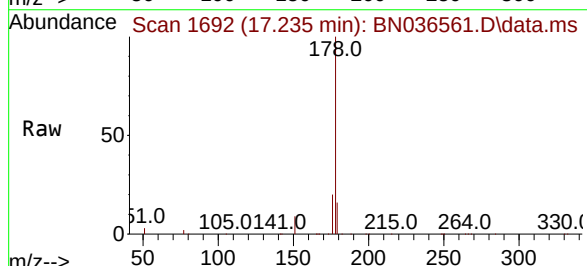
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

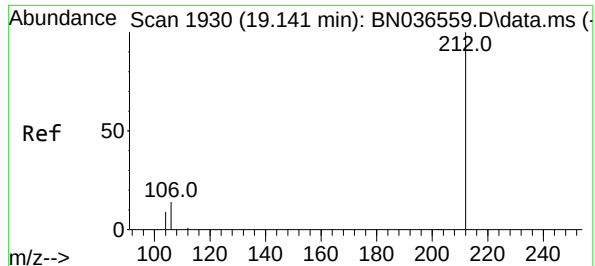
Tgt Ion:178 Resp: 37989
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.1 12.2 18.4



#26
Anthracene
Concen: 1.589 ng
RT: 17.235 min Scan# 1692
Delta R.T. -0.012 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:178 Resp: 35054
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 1.600 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

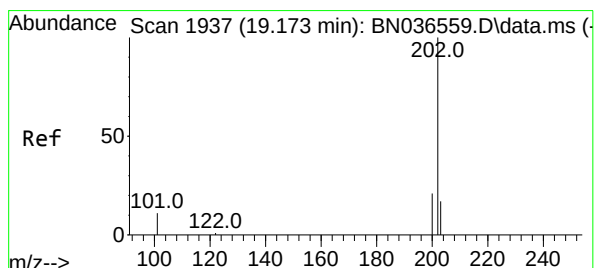
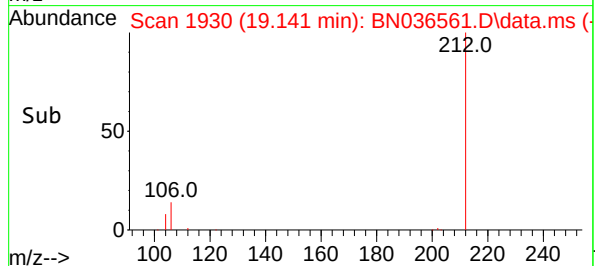
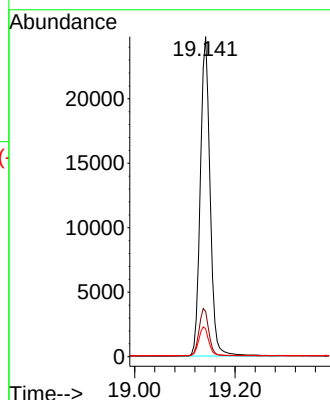
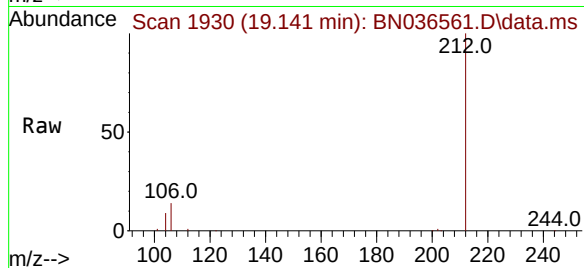
Tgt Ion:212 Resp: 33414

Ion Ratio Lower Upper

212 100

106 15.0 11.8 17.6

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 1.619 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.004 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

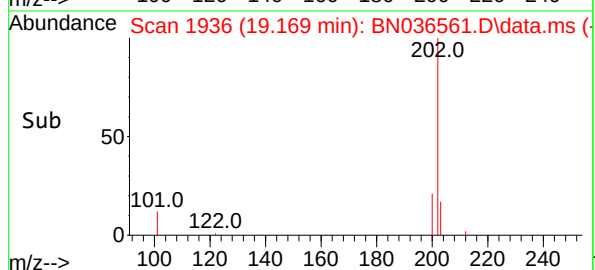
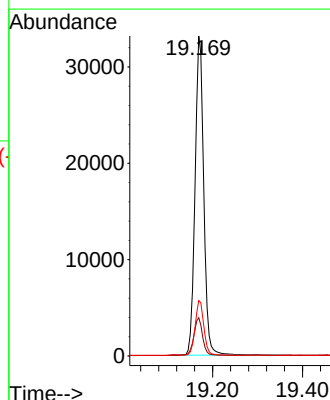
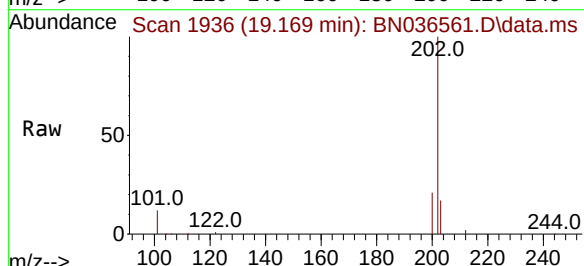
Tgt Ion:202 Resp: 44451

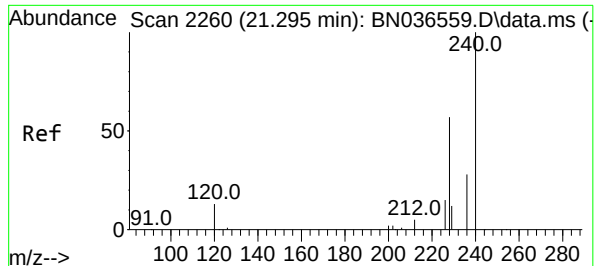
Ion Ratio Lower Upper

202 100

101 12.0 9.4 14.0

203 17.2 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

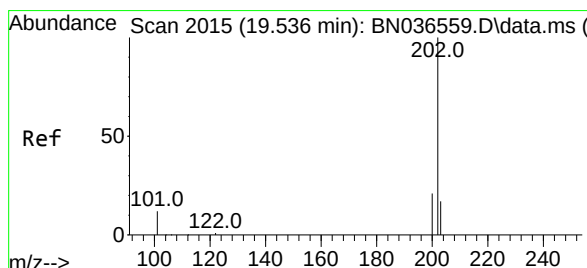
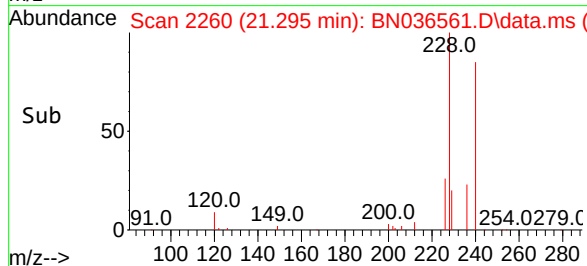
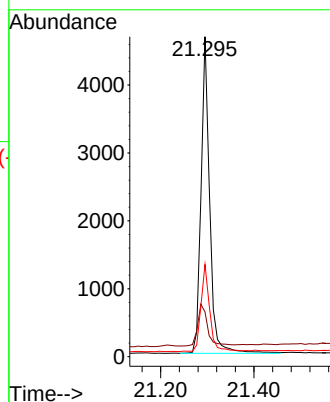
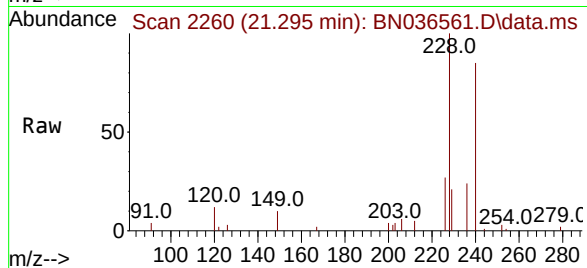
Tgt Ion:240 Resp: 5977

Ion Ratio Lower Upper

240 100

120 14.0 14.6 22.0#

236 28.9 24.1 36.1



#30

Pyrene

Concen: 1.530 ng

RT: 19.531 min Scan# 2014

Delta R.T. -0.004 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

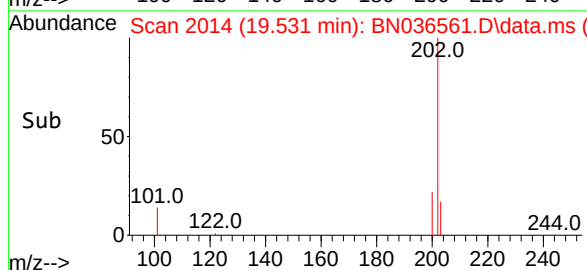
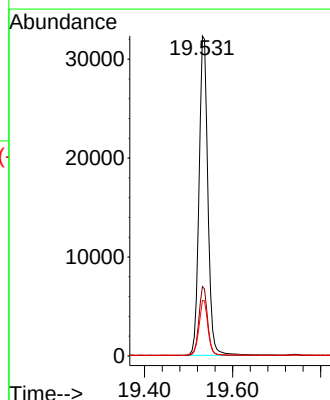
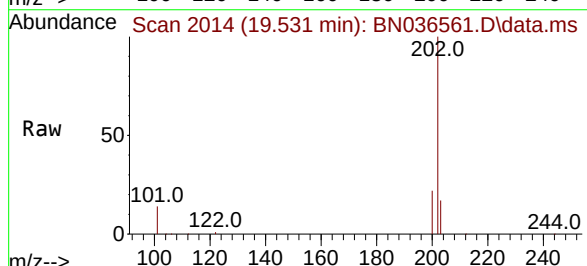
Tgt Ion:202 Resp: 44705

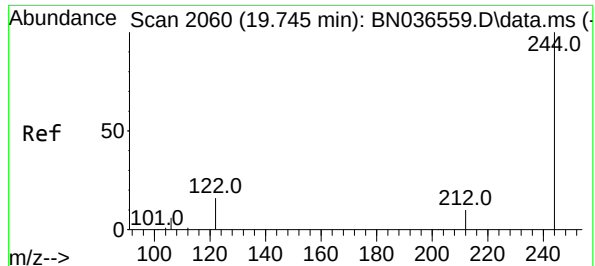
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 17.5 14.1 21.1

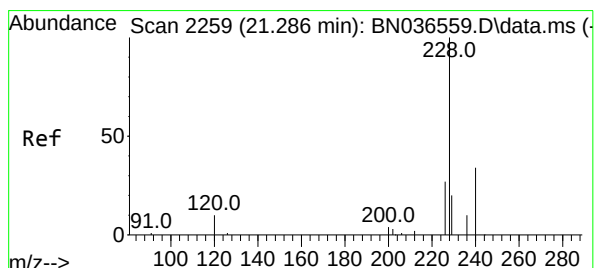
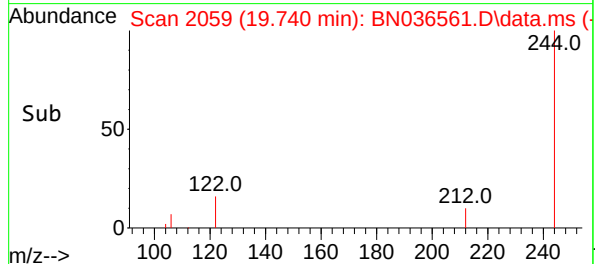
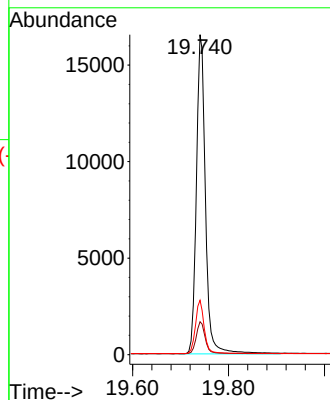
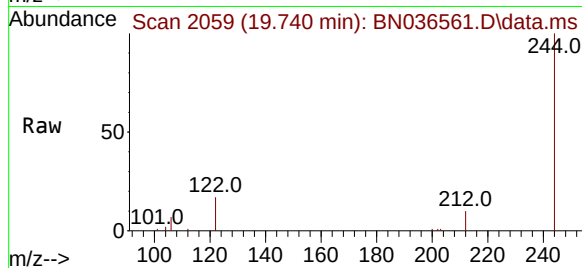




#31
Terphenyl-d14
Concen: 1.527 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.004 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

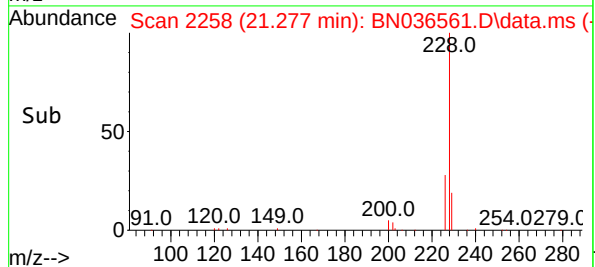
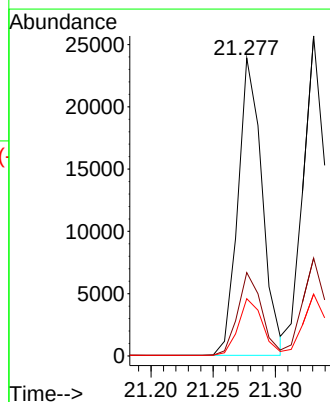
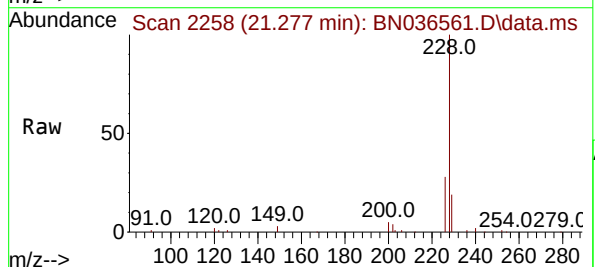
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

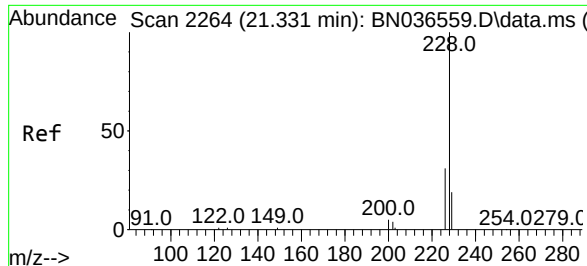
Tgt Ion:244 Resp: 21872
Ion Ratio Lower Upper
244 100
212 10.3 9.6 14.4
122 17.0 13.9 20.9



#32
Benzo(a)anthracene
Concen: 1.550 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036561.D
Acq: 10 Mar 2025 14:07

Tgt Ion:228 Resp: 32205
Ion Ratio Lower Upper
228 100
226 28.0 22.5 33.7
229 19.2 16.6 25.0





#33

Chrysene

Concen: 1.539 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

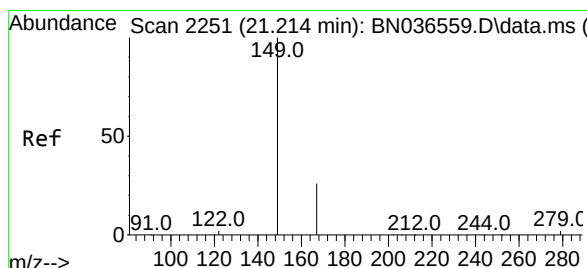
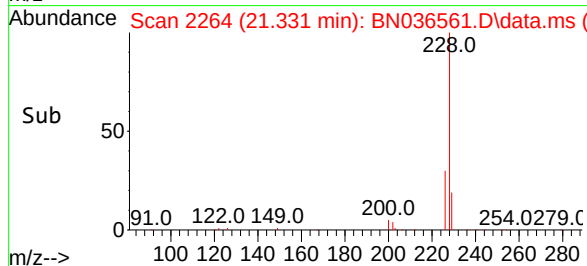
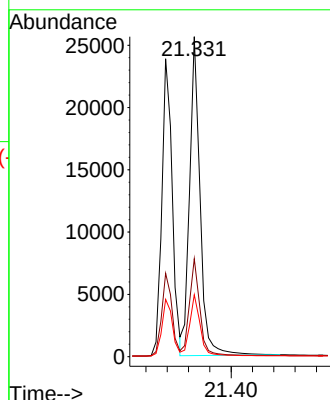
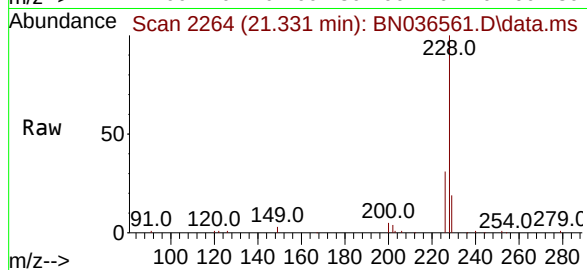
Tgt Ion:228 Resp: 34953

Ion Ratio Lower Upper

228 100

226 30.6 25.3 37.9

229 19.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.529 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

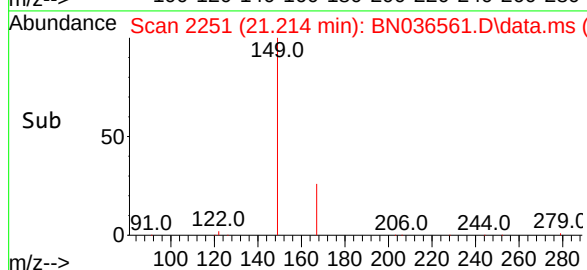
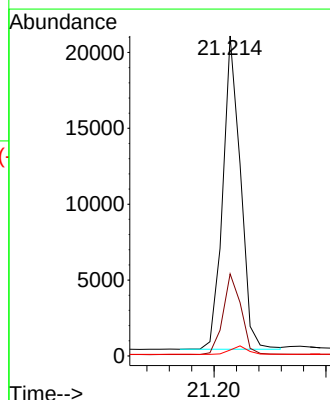
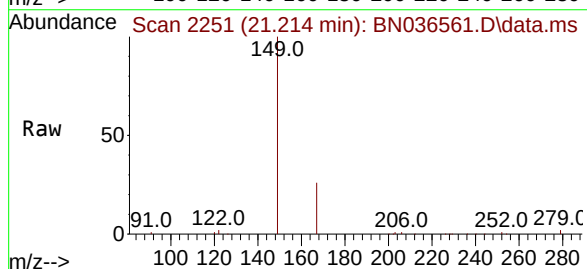
Tgt Ion:149 Resp: 22621

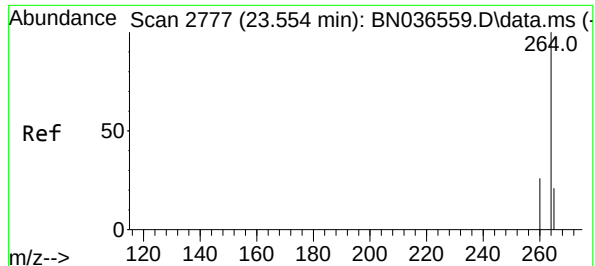
Ion Ratio Lower Upper

149 100

167 26.3 20.7 31.1

279 2.7 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.552 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

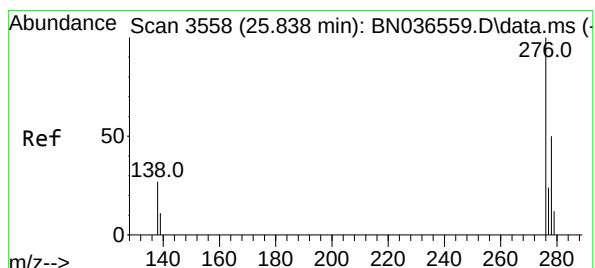
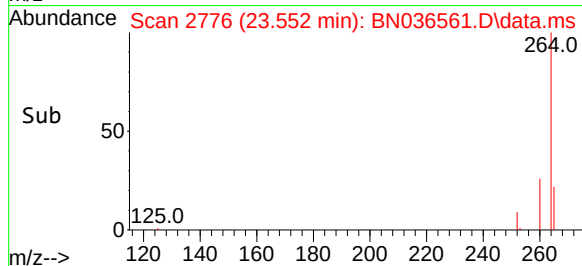
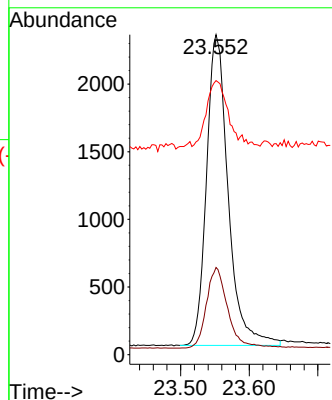
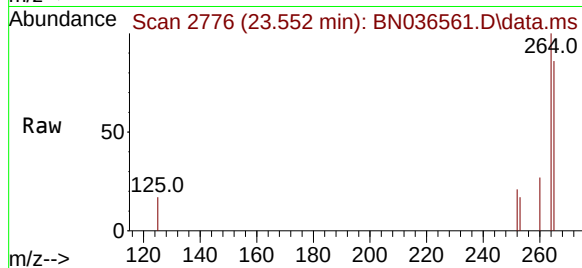
Tgt Ion:264 Resp: 5048

Ion Ratio Lower Upper

264 100

260 27.2 22.6 33.8

265 85.7 88.1 132.1#



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.570 ng

RT: 25.832 min Scan# 3556

Delta R.T. -0.006 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

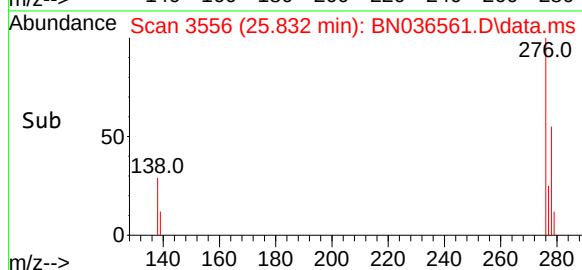
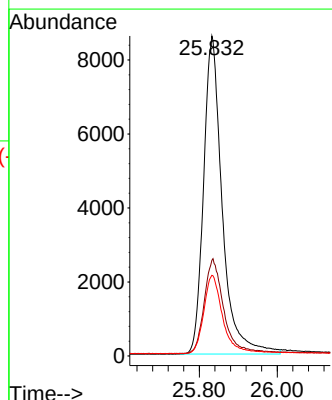
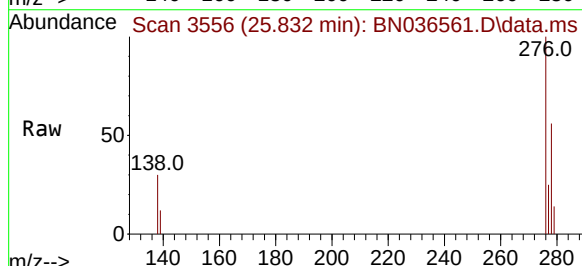
Tgt Ion:276 Resp: 28605

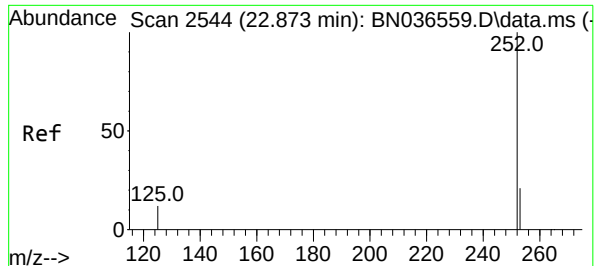
Ion Ratio Lower Upper

276 100

138 30.4 23.4 35.2

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 1.623 ng

RT: 22.870 min Scan# 2544

Delta R.T. -0.003 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

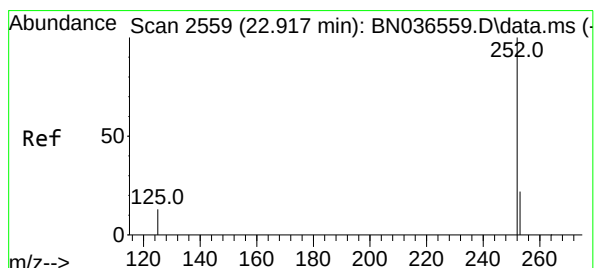
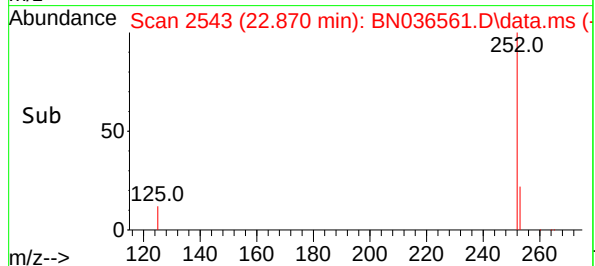
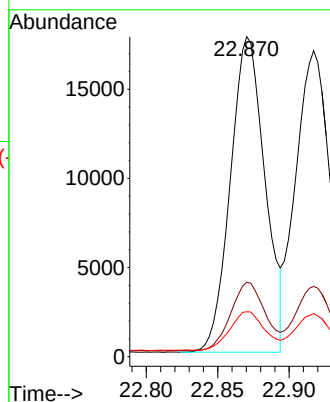
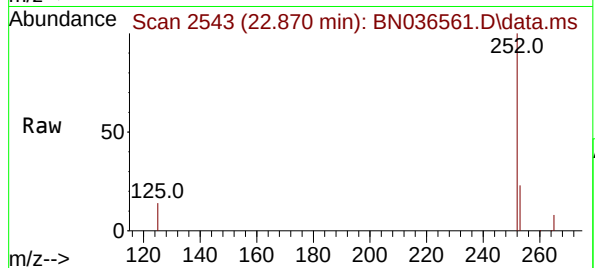
Tgt Ion:252 Resp: 29819

Ion Ratio Lower Upper

252 100

253 23.3 23.9 35.9#

125 14.0 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 1.593 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

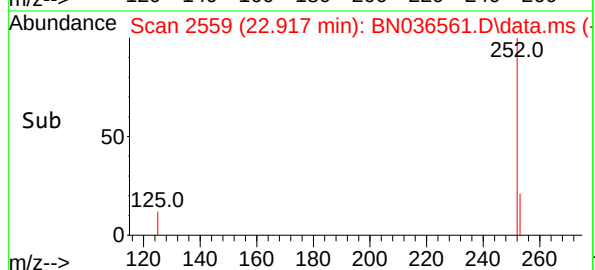
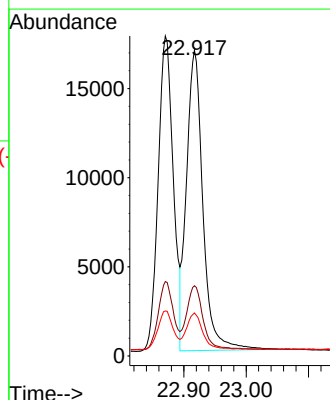
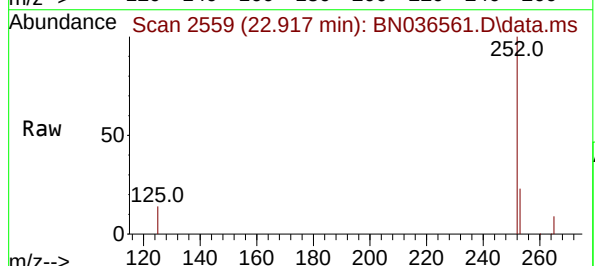
Tgt Ion:252 Resp: 30710

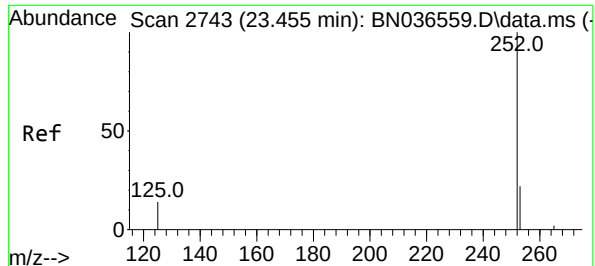
Ion Ratio Lower Upper

252 100

253 23.0 24.6 36.8#

125 14.1 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 1.596 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

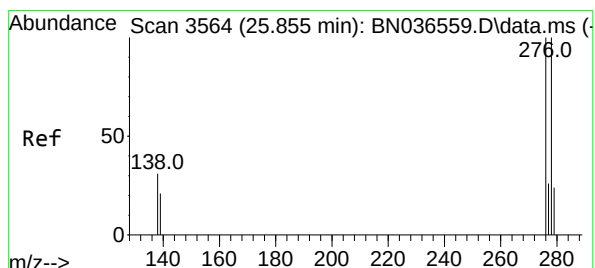
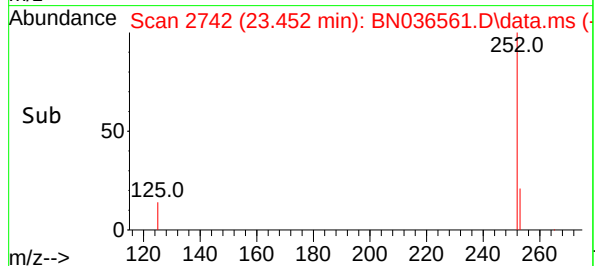
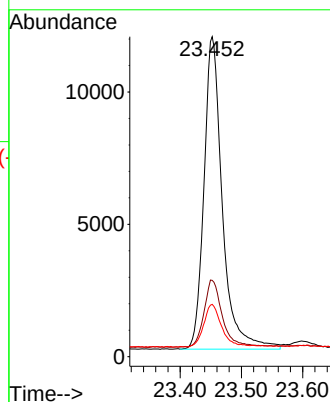
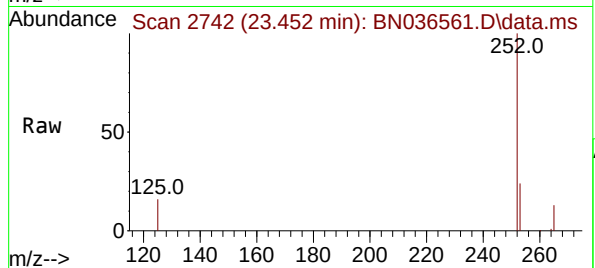
Tgt Ion:252 Resp: 24696

Ion Ratio Lower Upper

252 100

253 23.9 27.8 41.8#

125 16.3 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 1.569 ng

RT: 25.850 min Scan# 3562

Delta R.T. -0.006 min

Lab File: BN036561.D

Acq: 10 Mar 2025 14:07

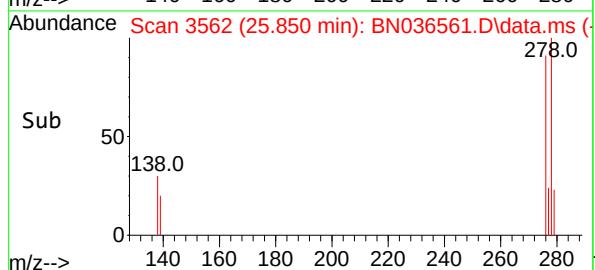
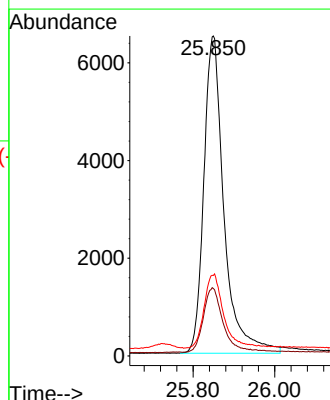
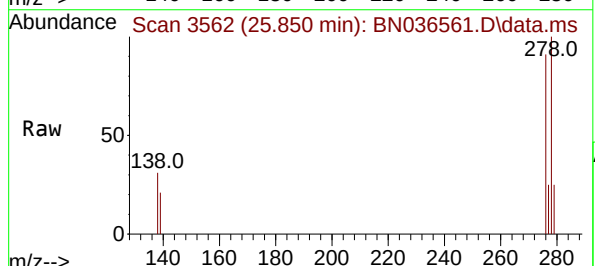
Tgt Ion:278 Resp: 22248

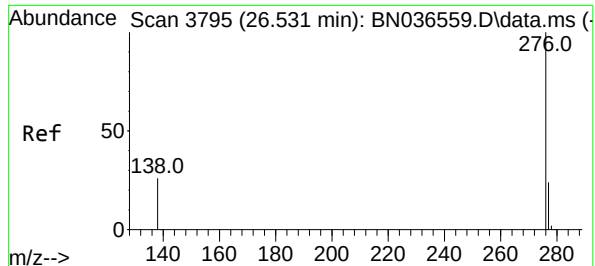
Ion Ratio Lower Upper

278 100

139 21.1 20.8 31.2

279 25.1 28.8 43.2#





#41

Benzo(g,h,i)perylene

Concen: 1.535 ng

RT: 26.531 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036561.D

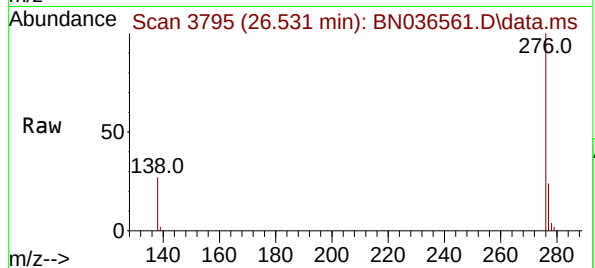
Acq: 10 Mar 2025 14:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



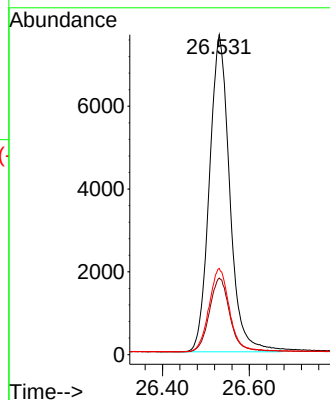
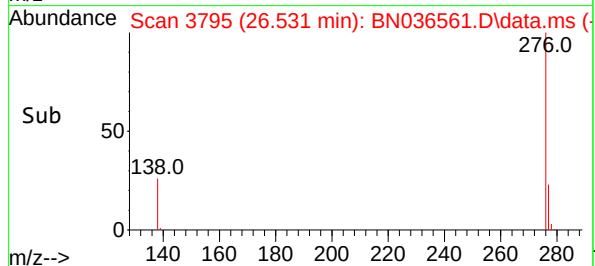
Tgt Ion:276 Resp: 24906

Ion Ratio Lower Upper

276 100

277 23.9 22.2 33.4

138 26.9 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036562.D
 Acq On : 10 Mar 2025 14:43
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Mar 10 16:02:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

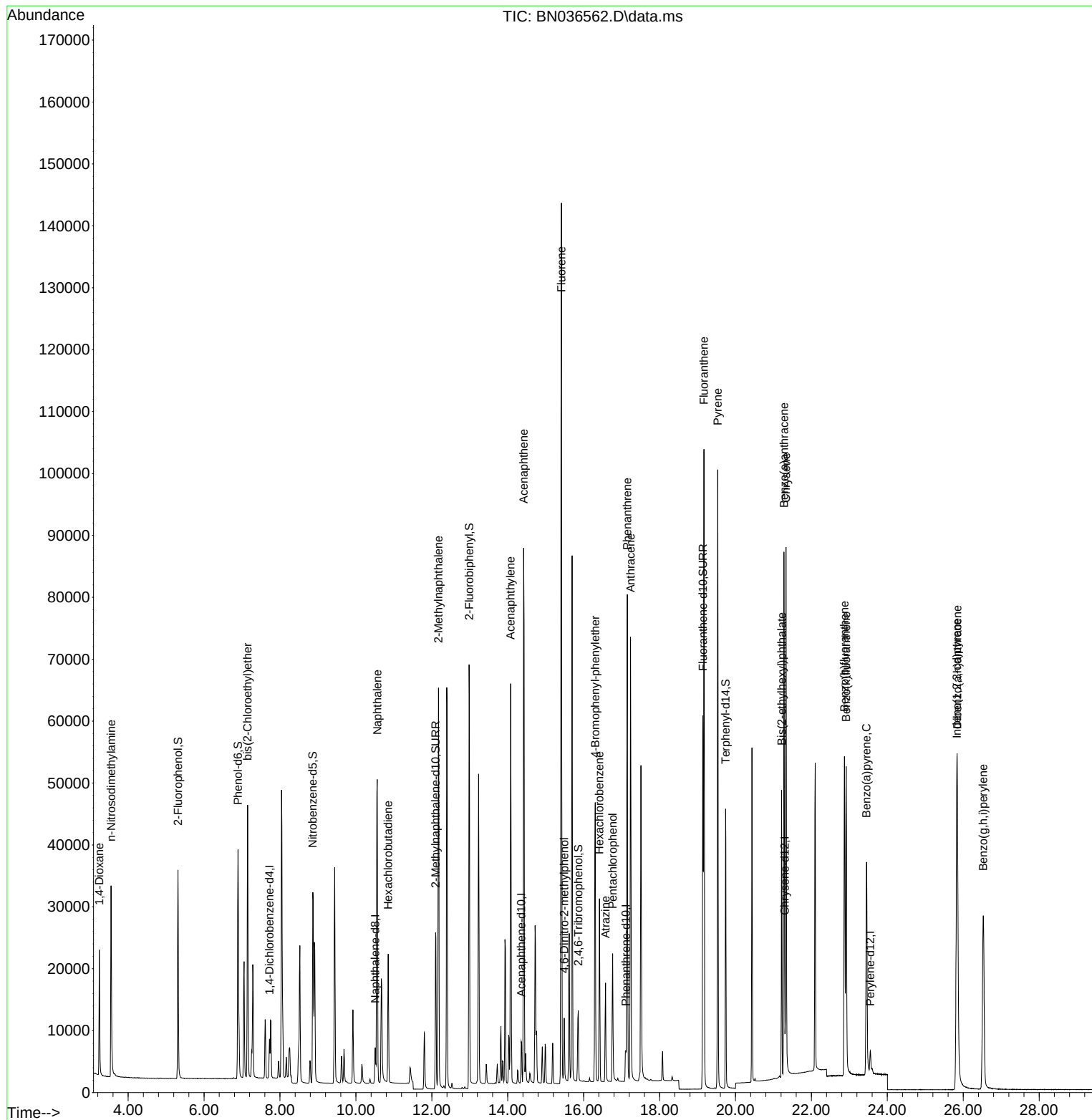
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2890	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6824	0.400	ng	0.00
13) Acenaphthene-d10	14.355	164	3957	0.400	ng	-0.01
19) Phenanthrene-d10	17.111	188	7488	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5439	0.400	ng	0.00
35) Perylene-d12	23.551	264	5002	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	23032	3.420	ng	0.00
5) Phenol-d6	6.894	99	28996	3.485	ng	0.00
8) Nitrobenzene-d5	8.864	82	24586	3.312	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	34578	3.407	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	6252	3.482	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	81236	3.529	ng	0.00
27) Fluoranthene-d10	19.141	212	65134	3.394	ng	0.00
31) Terphenyl-d14	19.740	244	42959	3.297	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.239	88	10288	3.209	ng	97
3) n-Nitrosodimethylamine	3.550	42	20412	3.147	ng	# 96
6) bis(2-Chloroethyl)ether	7.146	93	27978	3.253	ng	99
9) Naphthalene	10.562	128	66694	3.323	ng	96
10) Hexachlorobutadiene	10.850	225	15618	3.305	ng	# 99
12) 2-Methylnaphthalene	12.177	142	43768	3.427	ng	97
16) Acenaphthylene	14.077	152	65654	3.516	ng	99
17) Acenaphthene	14.420	154	42378	3.467	ng	97
18) Fluorene	15.414	166	56295	3.404	ng	100
20) 4,6-Dinitro-2-methylph...	15.489	198	6567	3.315	ng	# 58
21) 4-Bromophenyl-phenylether	16.304	248	16652	3.549	ng	# 82
22) Hexachlorobenzene	16.416	284	19287	3.406	ng	100
23) Atrazine	16.577	200	12969	3.448	ng	# 90
24) Pentachlorophenol	16.764	266	9625	3.726	ng	99
25) Phenanthrene	17.148	178	77903	3.468	ng	99
26) Anthracene	17.235	178	72775	3.590	ng	99
28) Fluoranthene	19.169	202	86688	3.436	ng	99
30) Pyrene	19.531	202	86694	3.260	ng	100
32) Benzo(a)anthracene	21.277	228	66496	3.516	ng	99
33) Chrysene	21.331	228	70334	3.403	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	39682	2.947	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.829	276	67767	3.754	ng	98
37) Benzo(b)fluoranthene	22.870	252	63823	3.506	ng	# 84
38) Benzo(k)fluoranthene	22.914	252	65410	3.425	ng	# 83
39) Benzo(a)pyrene	23.452	252	54009	3.523	ng	# 77
40) Dibenzo(a,h)anthracene	25.843	278	54058	3.846	ng	# 84
41) Benzo(g,h,i)perylene	26.528	276	57986	3.606	ng	94

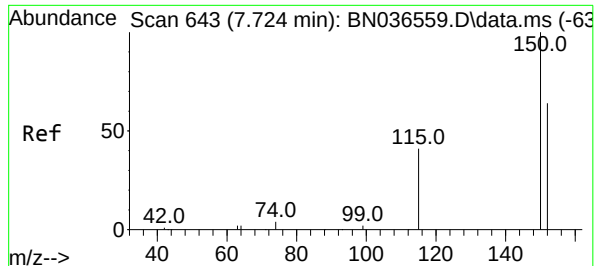
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036562.D
Acq On : 10 Mar 2025 14:43
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Mar 10 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

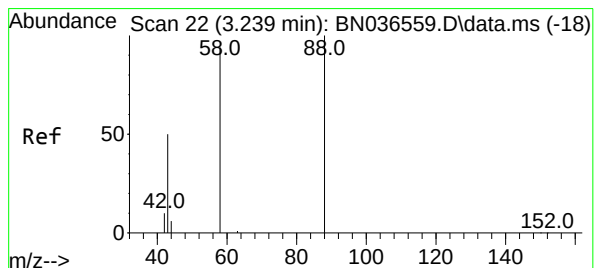
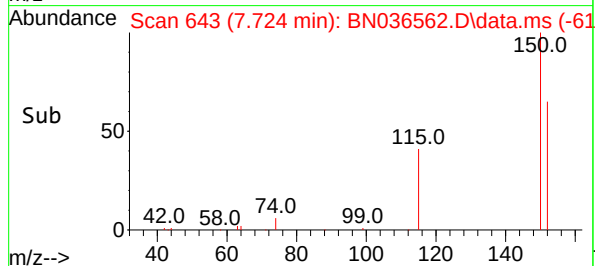
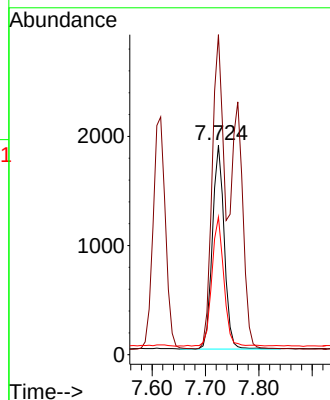
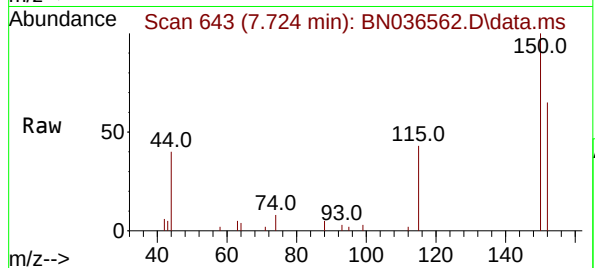




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

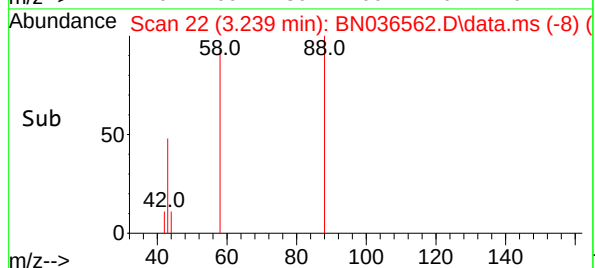
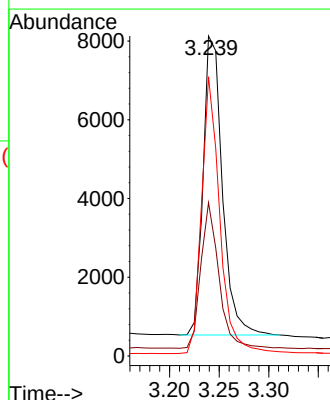
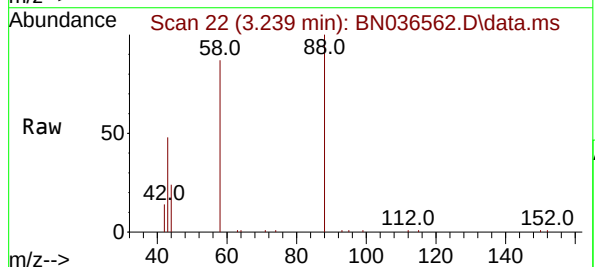
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

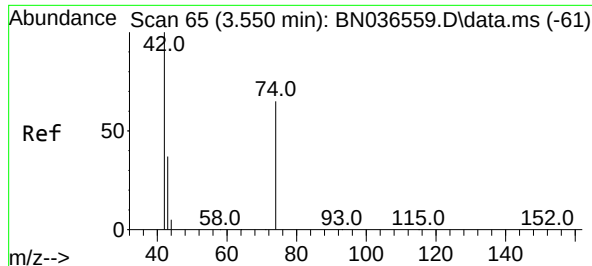
Tgt Ion:152 Resp: 2890
Ion Ratio Lower Upper
152 100
150 152.9 123.7 185.5
115 65.7 54.3 81.5



#2
1,4-Dioxane
Concen: 3.209 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 88 Resp: 10288
Ion Ratio Lower Upper
88 100
43 45.2 37.8 56.8
58 87.2 67.4 101.2

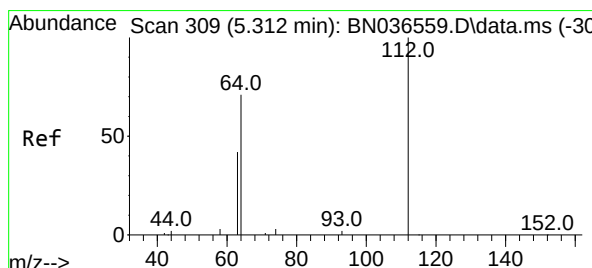
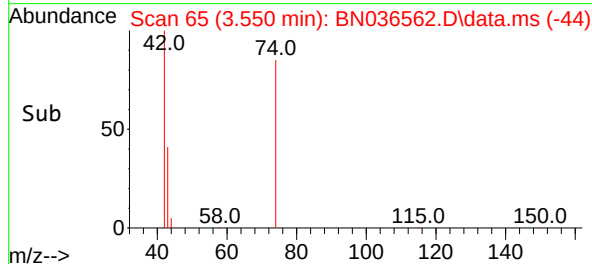
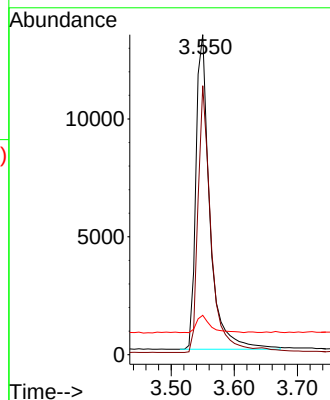
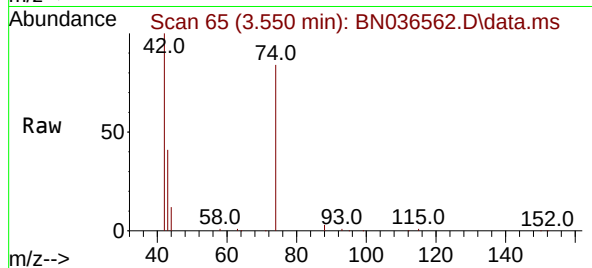




#3
n-Nitrosodimethylamine
Concen: 3.147 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

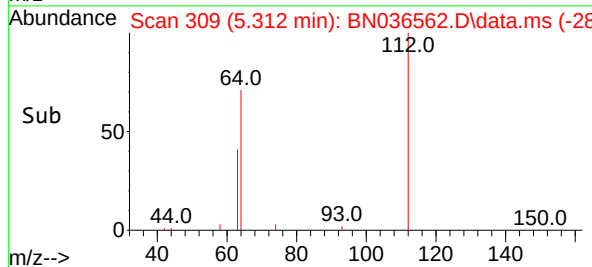
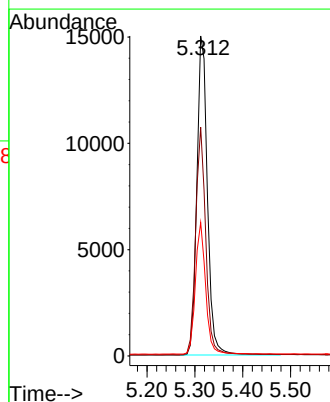
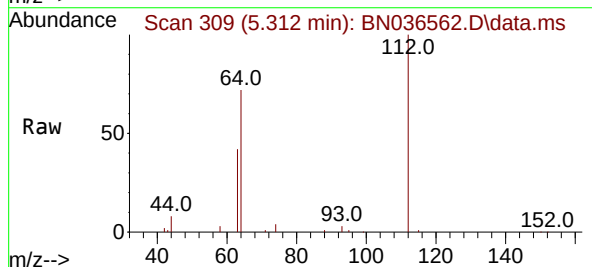
Instrument :
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ClientSampleId :
SSTDICC3.2

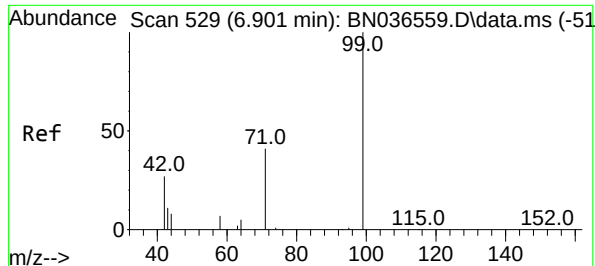
Tgt Ion: 42 Resp: 20412
Ion Ratio Lower Upper
42 100
74 78.8 60.6 90.8
44 5.5 6.3 9.5#



#4
2-Fluorophenol
Concen: 3.420 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 112 Resp: 23032
Ion Ratio Lower Upper
112 100
64 68.4 53.1 79.7
63 39.8 31.8 47.8

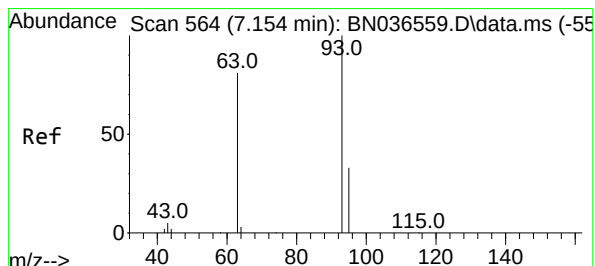
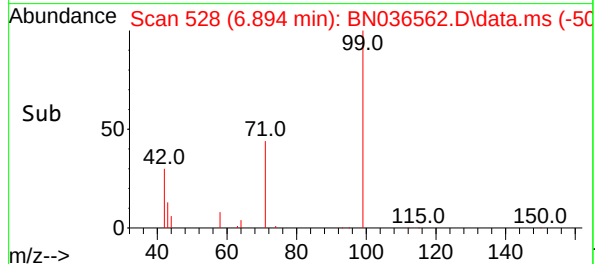
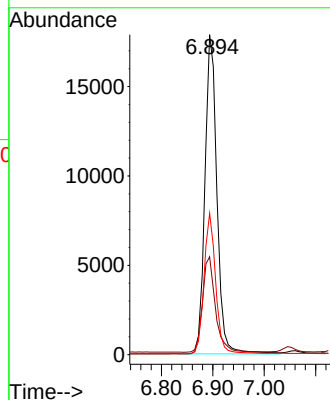
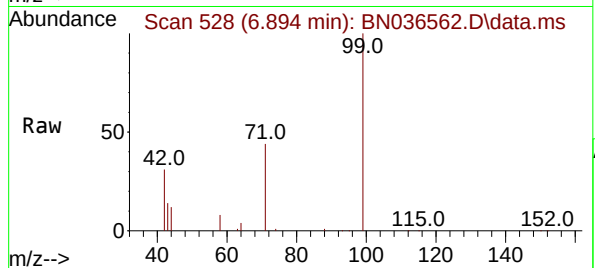




#5
Phenol-d6
Concen: 3.485 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

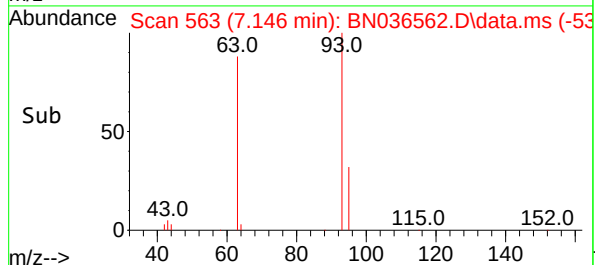
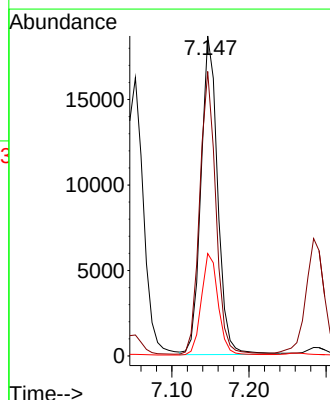
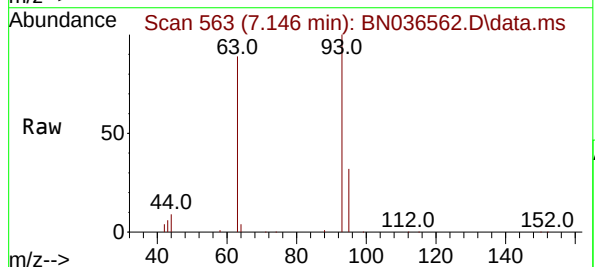
Instrument :
BNA_N
ClientSampleId :
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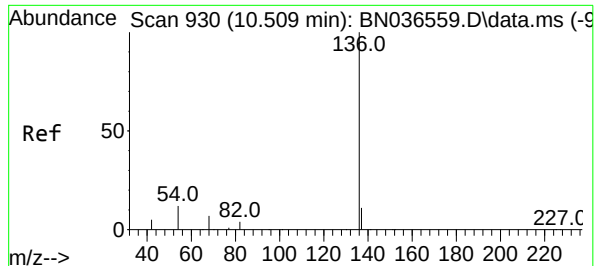
Tgt Ion: 99 Resp: 28996
Ion Ratio Lower Upper
99 100
42 32.3 26.5 39.7
71 43.2 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 3.253 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion: 93 Resp: 27978
Ion Ratio Lower Upper
93 100
63 85.7 67.7 101.5
95 32.0 25.6 38.4

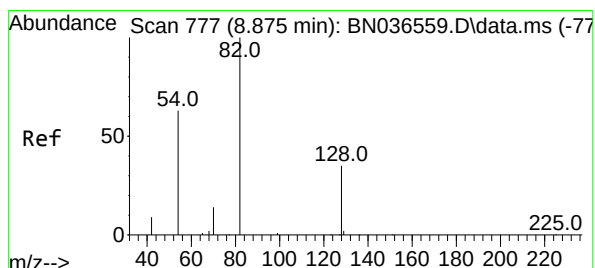
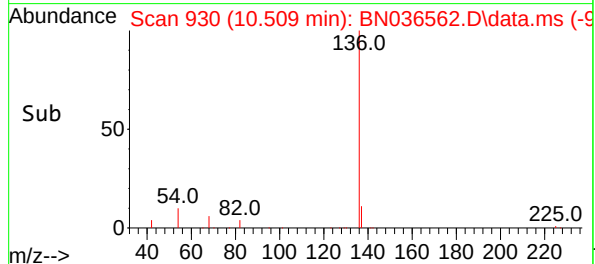
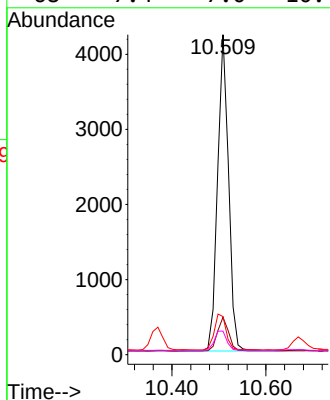
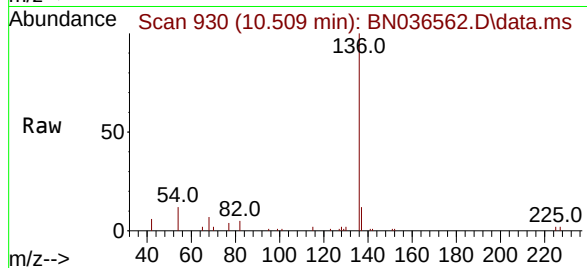




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

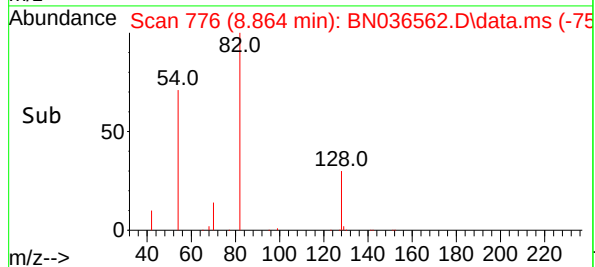
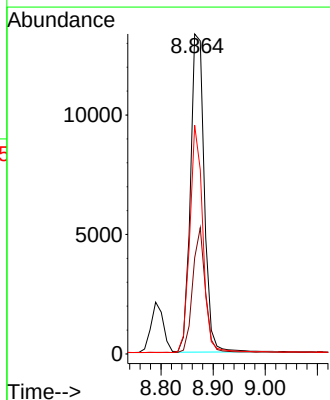
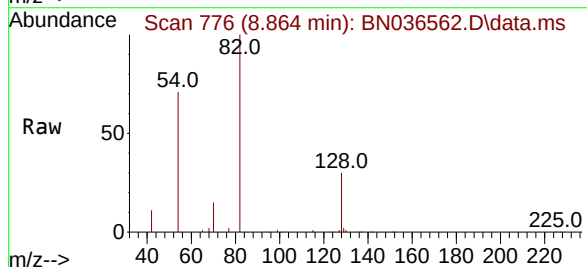
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

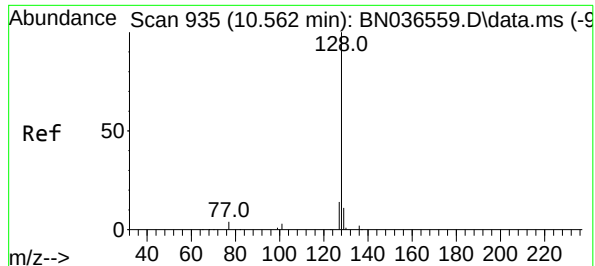
Tgt Ion:	136	Resp:	6824
Ion	Ratio	Lower	Upper
136	100		
137	11.7	10.3	15.5
54	11.9	11.5	17.3
68	7.4	7.0	10.4



#8
Nitrobenzene-d5
Concen: 3.312 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:	82	Resp:	24586
Ion	Ratio	Lower	Upper
82	100		
128	30.0	30.6	45.8#
54	71.4	52.2	78.4



#9
Naphthalene

Concen: 3.323 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

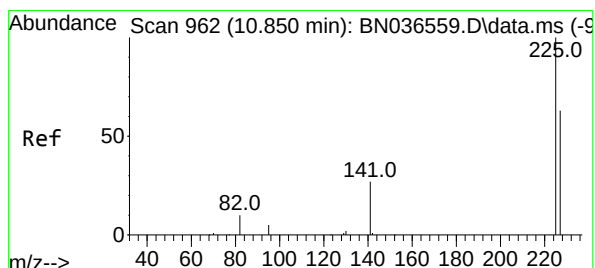
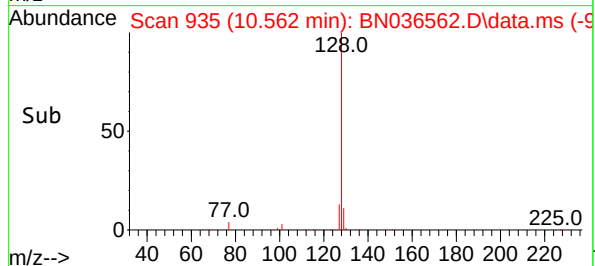
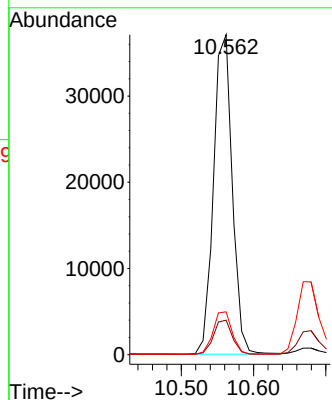
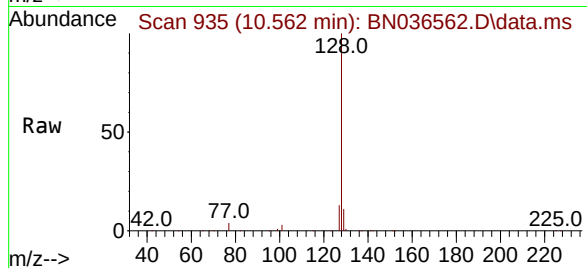
Tgt Ion:128 Resp: 66694

Ion Ratio Lower Upper

128 100

129 10.8 9.8 14.6

127 13.4 11.8 17.8



#10

Hexachlorobutadiene

Concen: 3.305 ng

RT: 10.850 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

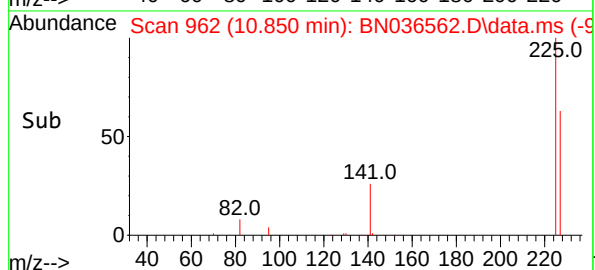
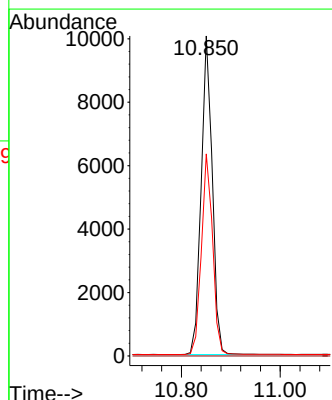
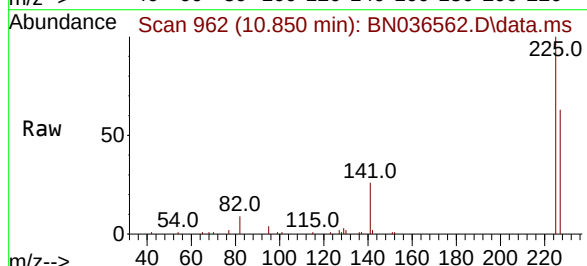
Tgt Ion:225 Resp: 15618

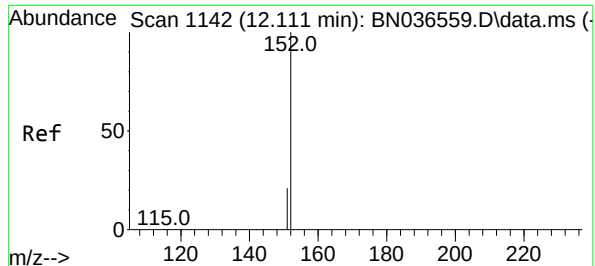
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.6 51.8 77.8

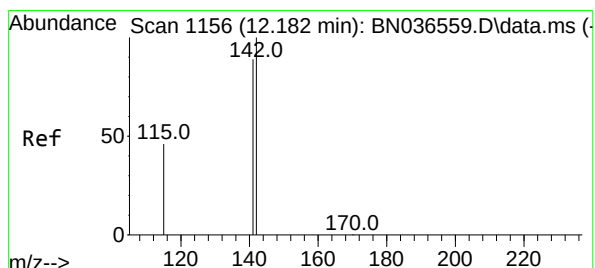
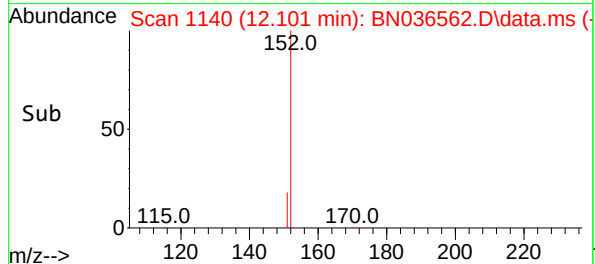
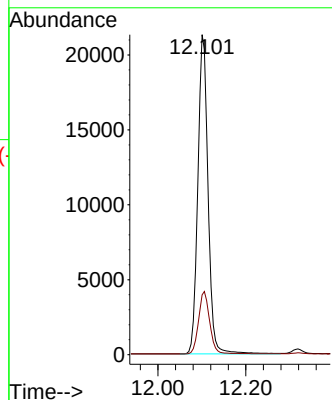
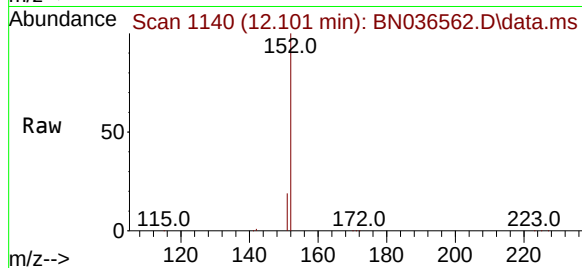




#11
2-Methylnaphthalene-d10
Concen: 3.407 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

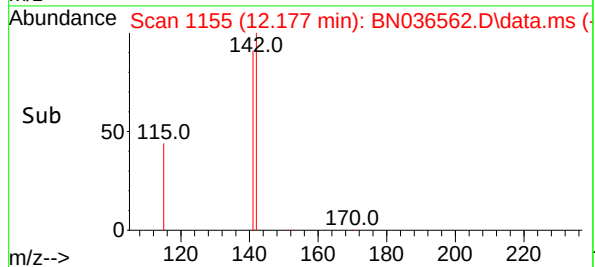
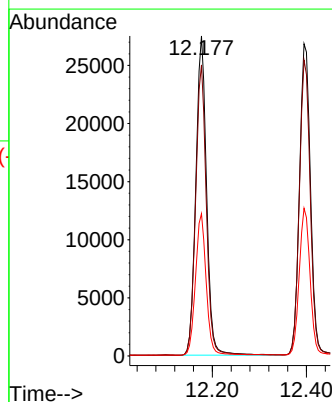
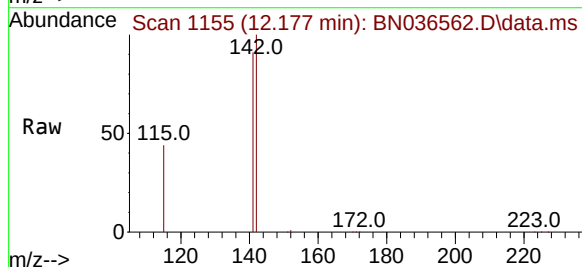
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ClientSampleId :
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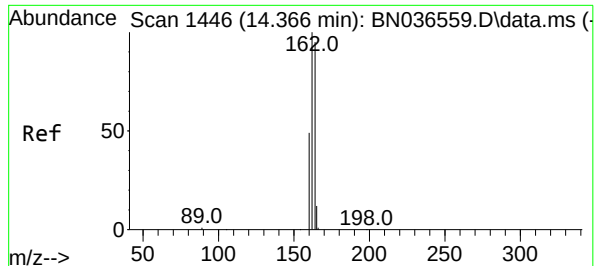
Tgt Ion:152 Resp: 34578
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 3.427 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:142 Resp: 43768
Ion Ratio Lower Upper
142 100
141 90.9 71.7 107.5
115 44.5 38.3 57.5

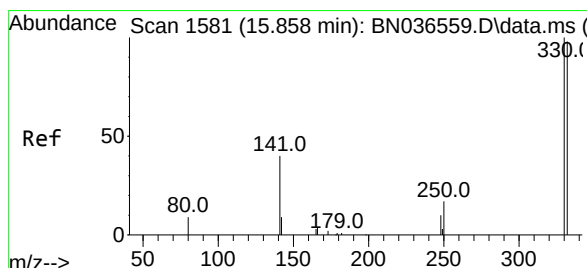
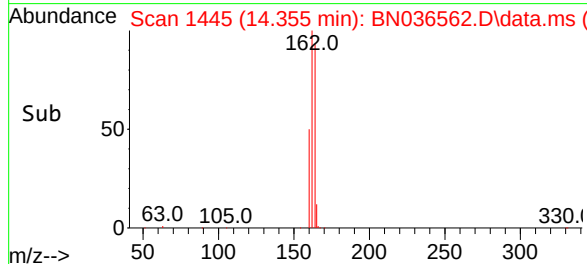
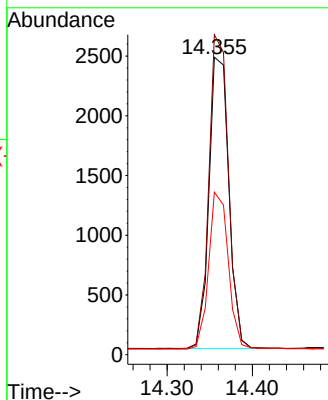
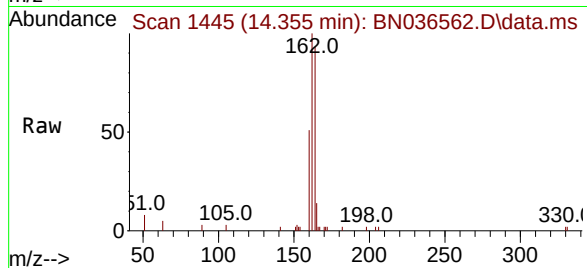




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.355 min Scan# 1446
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

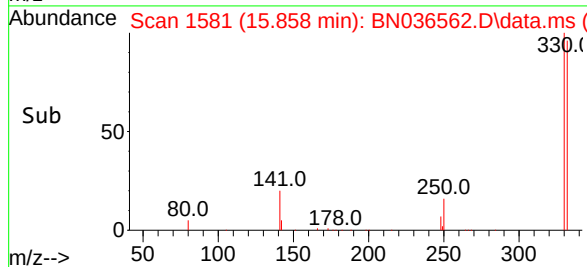
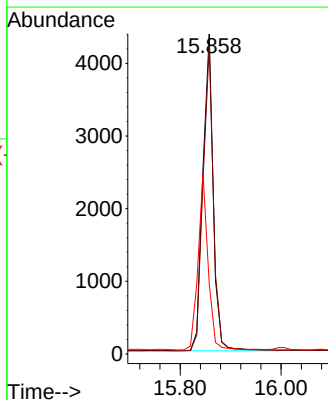
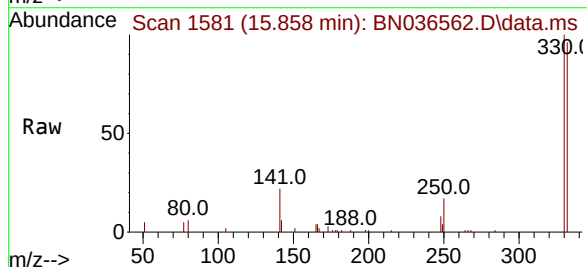
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ClientSampleId :
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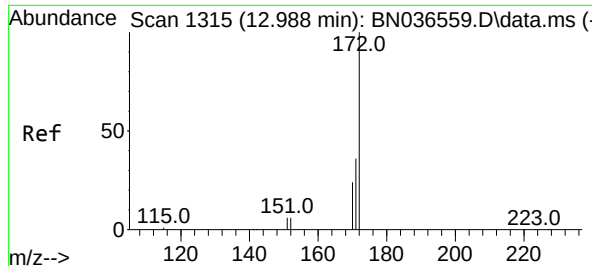
Tgt Ion:164 Resp: 3957
Ion Ratio Lower Upper
164 100
162 107.6 84.2 126.2
160 54.7 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 3.482 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:330 Resp: 6252
Ion Ratio Lower Upper
330 100
332 96.1 75.2 112.8
141 53.7 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 3.529 ng

RT: 12.983 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

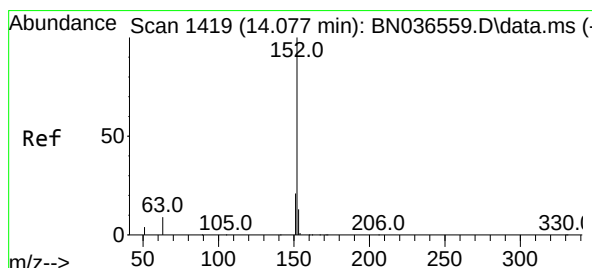
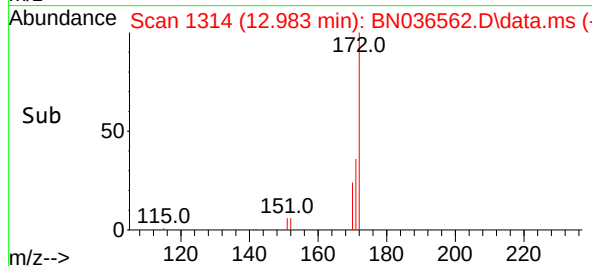
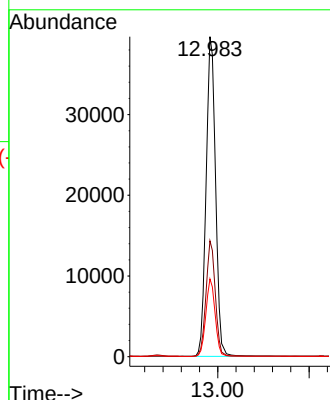
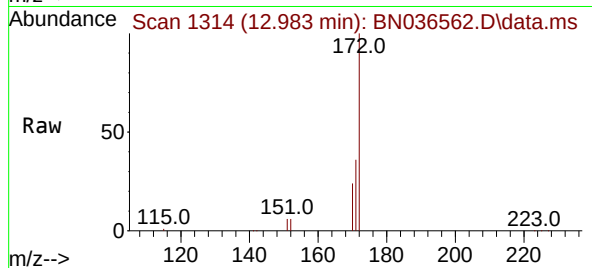
Tgt Ion:172 Resp: 81236

Ion Ratio Lower Upper

172 100

171 36.2 29.5 44.3

170 24.3 20.2 30.4



#16

Acenaphthylene

Concen: 3.516 ng

RT: 14.077 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

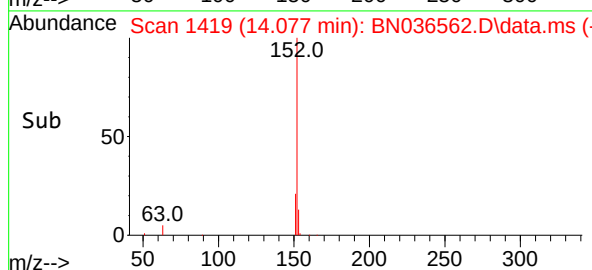
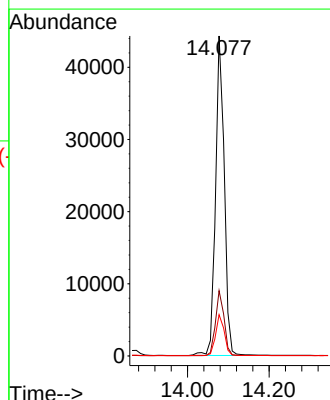
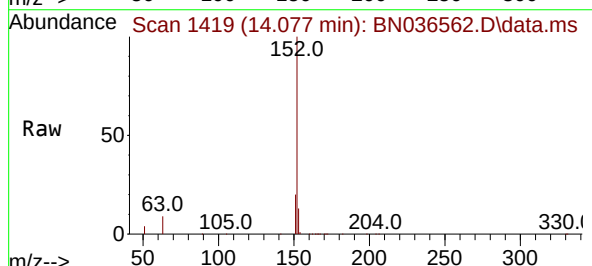
Tgt Ion:152 Resp: 65654

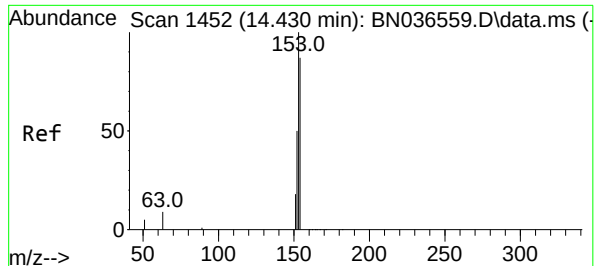
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.4

153 12.8 10.6 15.8

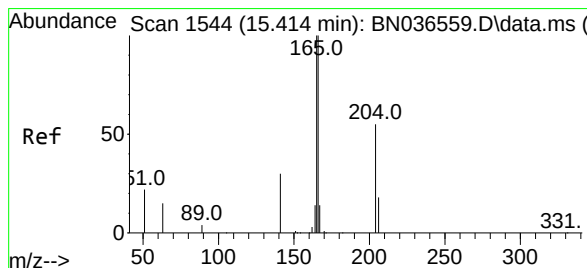
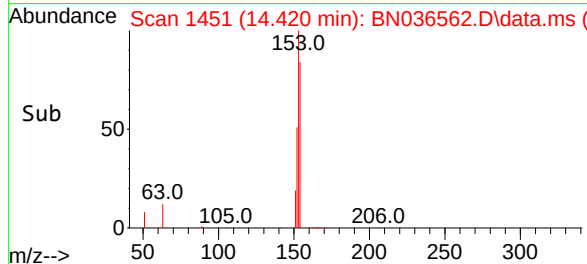
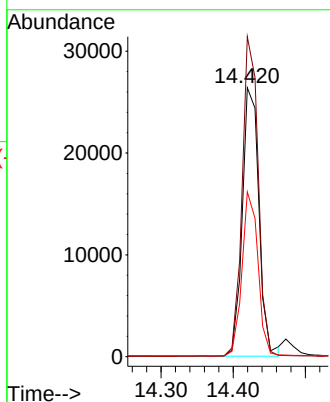
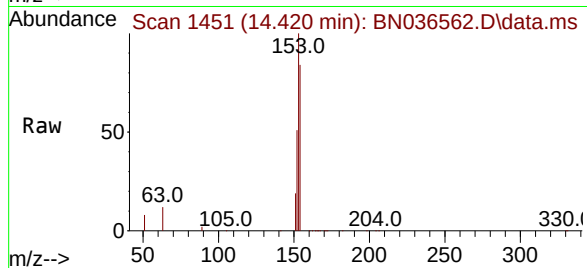




#17
Acenaphthene
Concen: 3.467 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

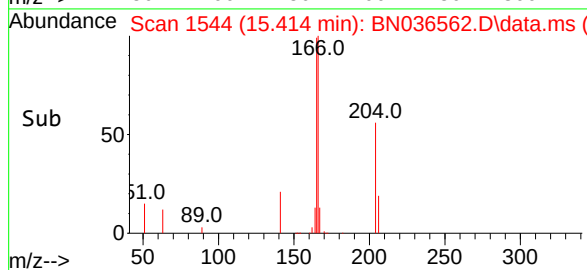
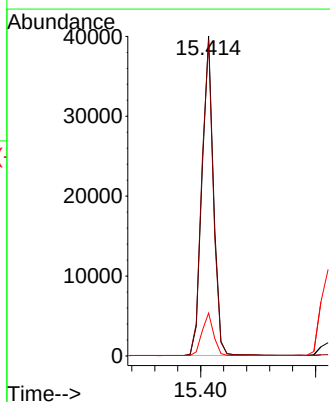
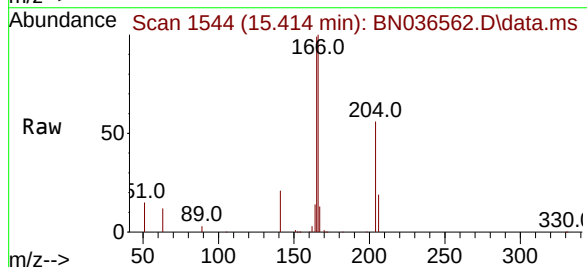
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

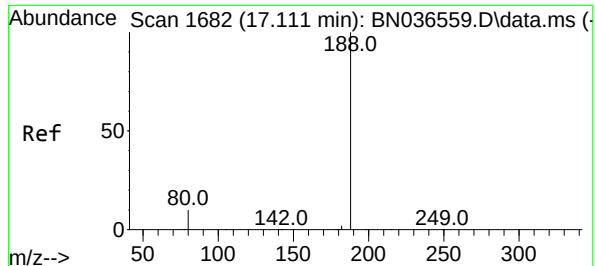
Tgt Ion:154 Resp: 42378
Ion Ratio Lower Upper
154 100
153 114.6 94.1 141.1
152 58.9 49.8 74.6



#18
Fluorene
Concen: 3.404 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:166 Resp: 56295
Ion Ratio Lower Upper
166 100
165 100.2 79.8 119.8
167 13.0 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

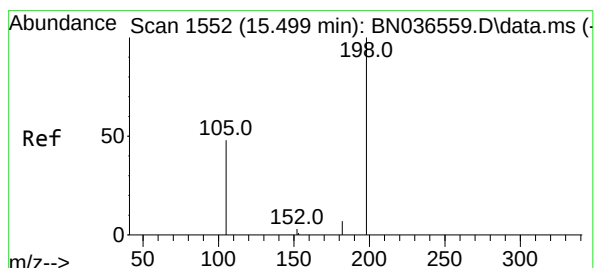
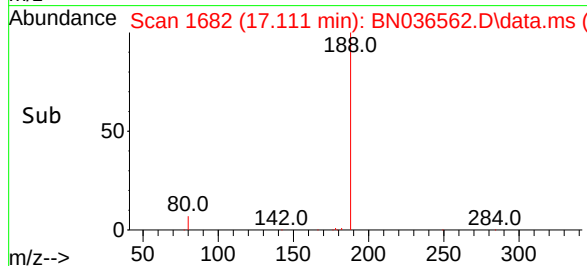
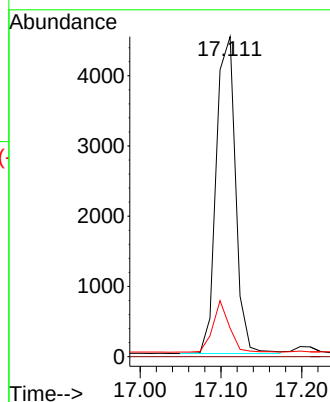
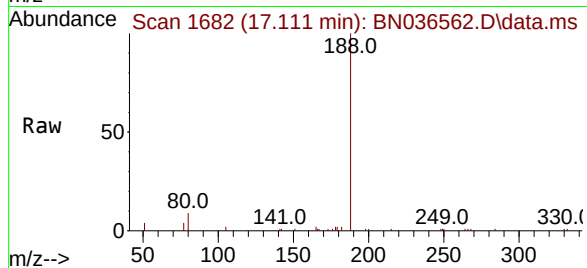
Tgt Ion:188 Resp: 7488

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.9 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 3.315 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.010 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

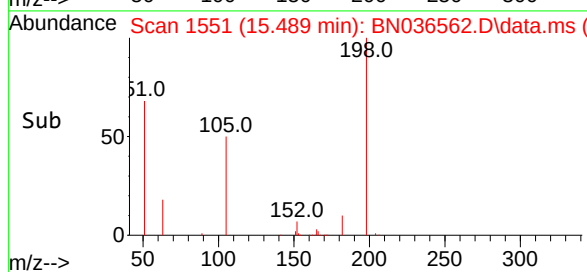
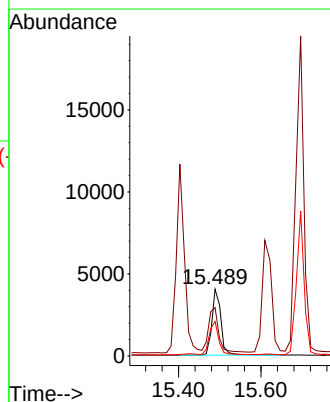
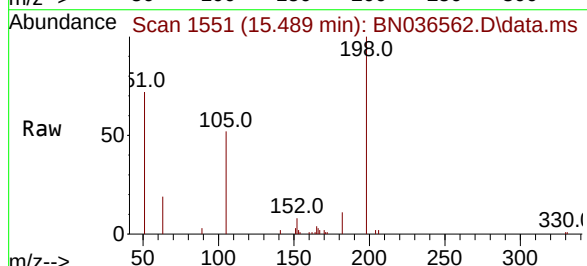
Tgt Ion:198 Resp: 6567

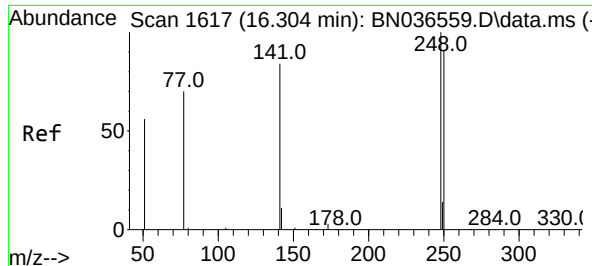
Ion Ratio Lower Upper

198 100

51 72.3 107.9 161.9#

105 51.5 56.2 84.2#





#21

4-Bromophenyl-phenylether

Concen: 3.549 ng

RT: 16.304 min Scan# 1617

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

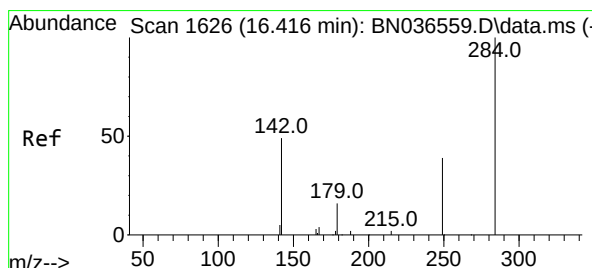
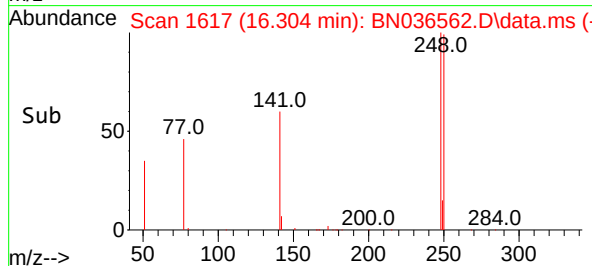
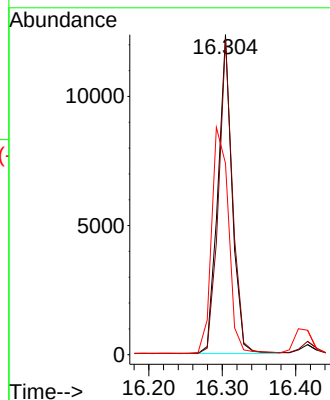
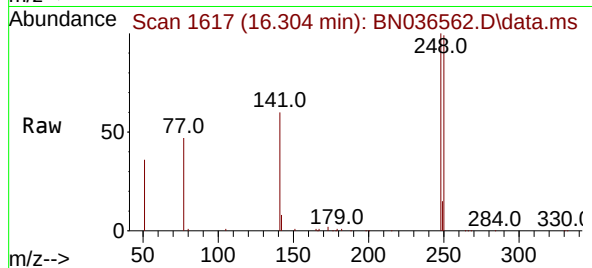
Tgt Ion:248 Resp: 16652

Ion Ratio Lower Upper

248 100

250 98.6 73.0 109.6

141 59.8 68.6 103.0#



#22

Hexachlorobenzene

Concen: 3.406 ng

RT: 16.416 min Scan# 1626

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

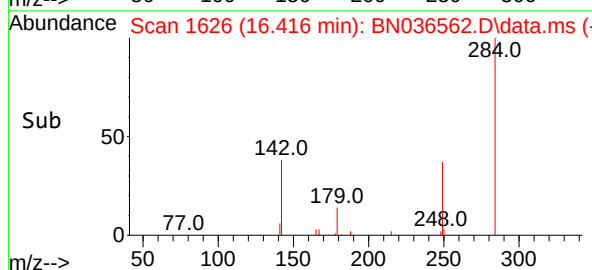
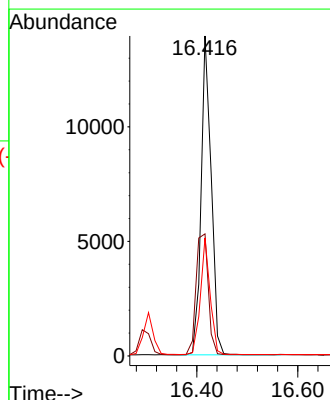
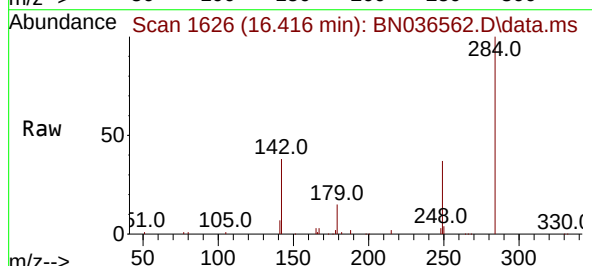
Tgt Ion:284 Resp: 19287

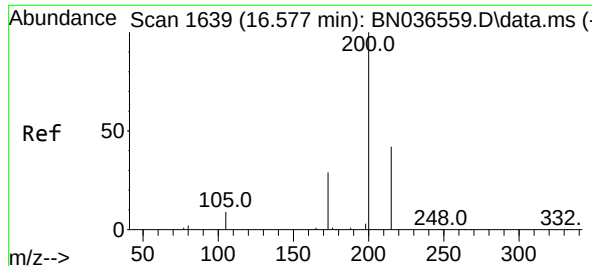
Ion Ratio Lower Upper

284 100

142 46.2 37.0 55.4

249 35.5 28.1 42.1

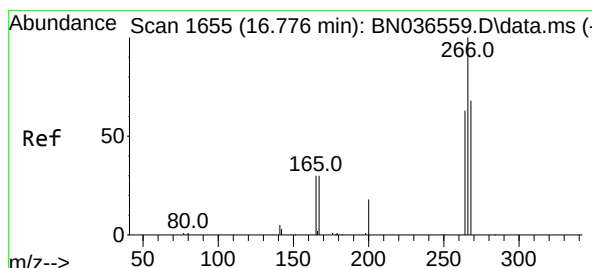
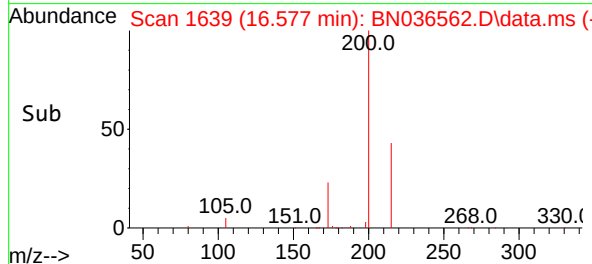
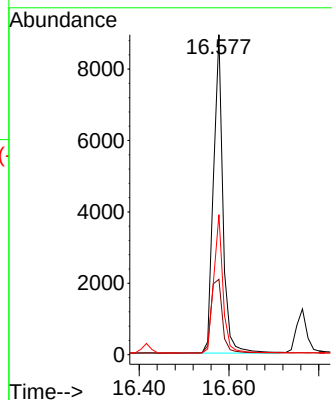
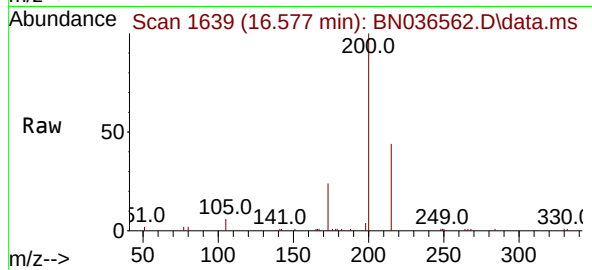




#23
Atrazine
Concen: 3.448 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

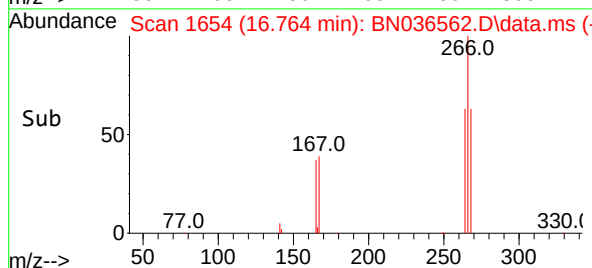
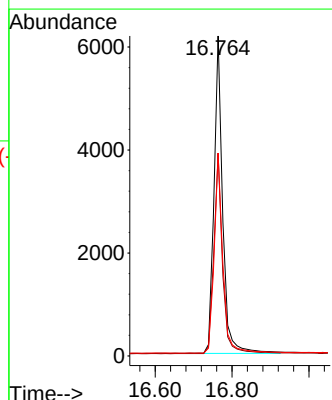
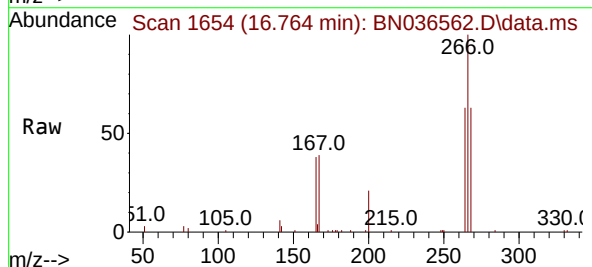
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

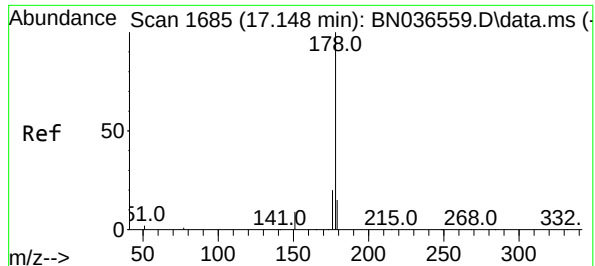
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.6	27.3	40.9
215	43.7	36.8	55.2



#24
Pentachlorophenol
Concen: 3.726 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.1	49.6	74.4
268	63.1	50.9	76.3





#25

Phenanthrene

Concen: 3.468 ng

RT: 17.148 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

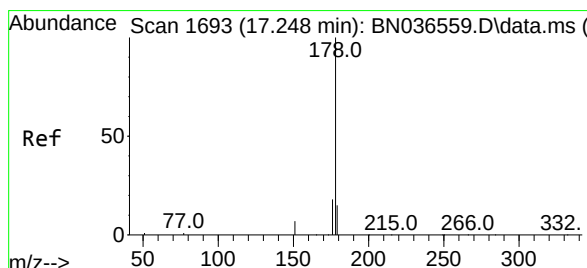
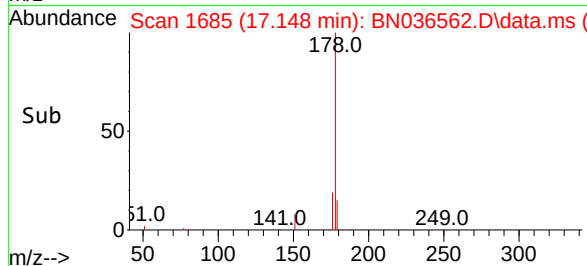
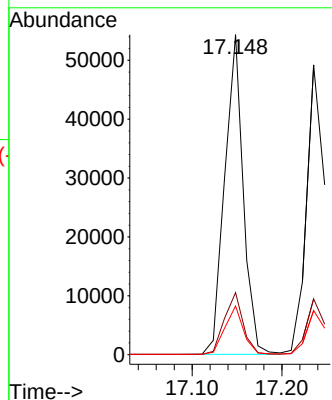
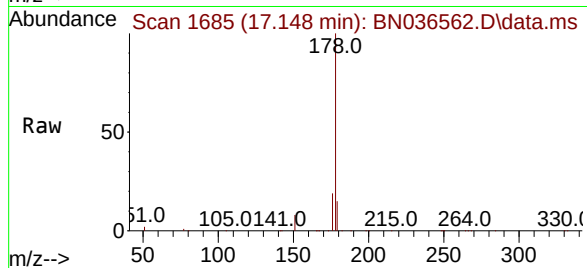
Tgt Ion:178 Resp: 77903

Ion Ratio Lower Upper

178 100

176 19.5 15.9 23.9

179 15.1 12.2 18.4



#26

Anthracene

Concen: 3.590 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.012 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

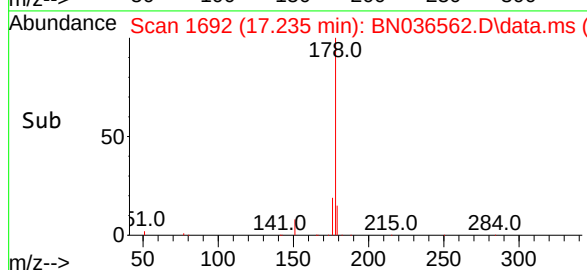
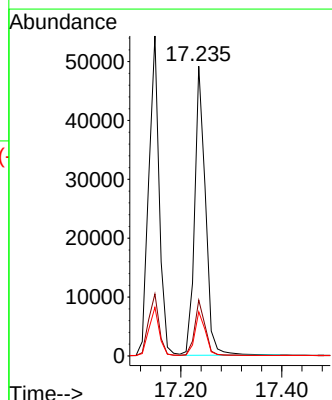
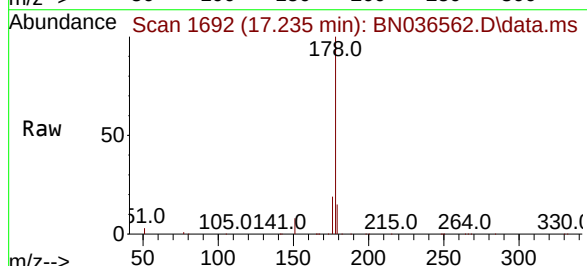
Tgt Ion:178 Resp: 72775

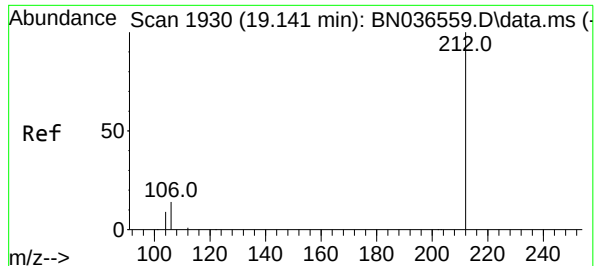
Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.2

179 15.2 12.6 18.8





#27

Fluoranthene-d10

Concen: 3.394 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

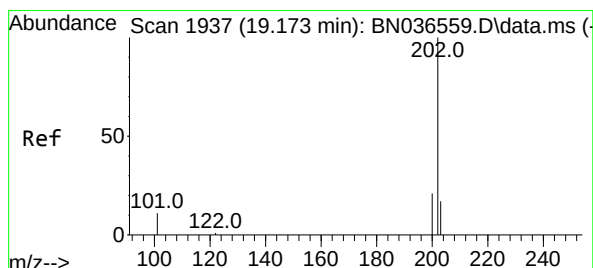
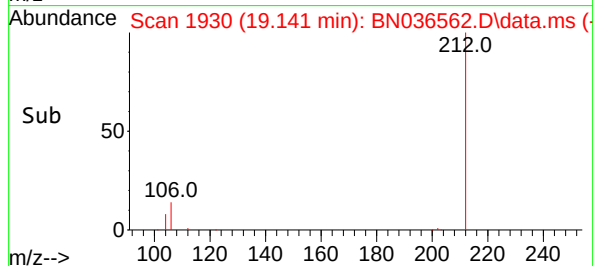
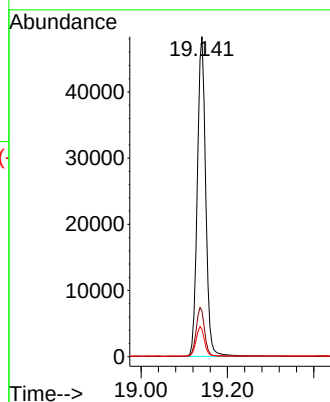
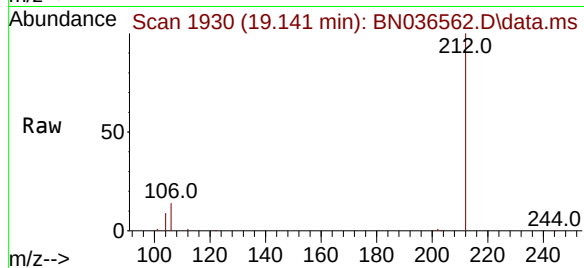
Tgt Ion:212 Resp: 65134

Ion Ratio Lower Upper

212 100

106 15.4 11.8 17.6

104 9.2 7.3 10.9



#28

Fluoranthene

Concen: 3.436 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

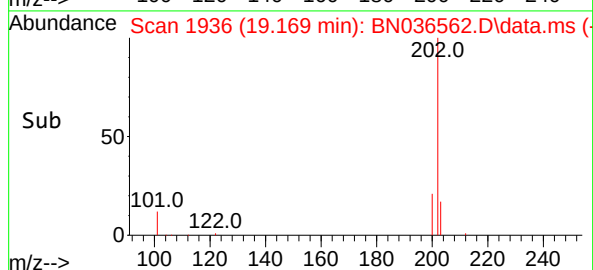
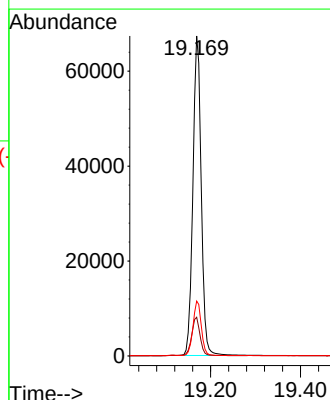
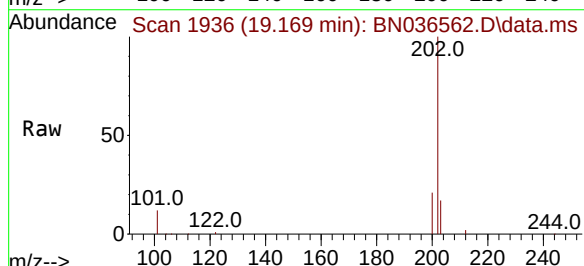
Tgt Ion:202 Resp: 86688

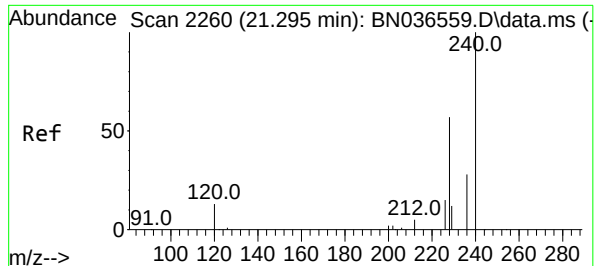
Ion Ratio Lower Upper

202 100

101 12.3 9.4 14.0

203 17.0 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

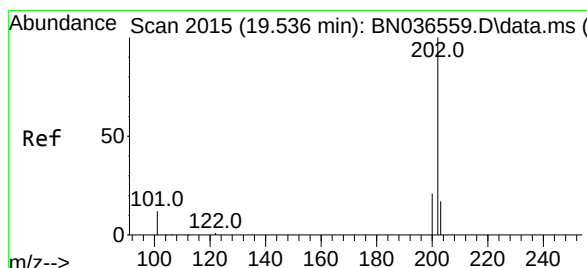
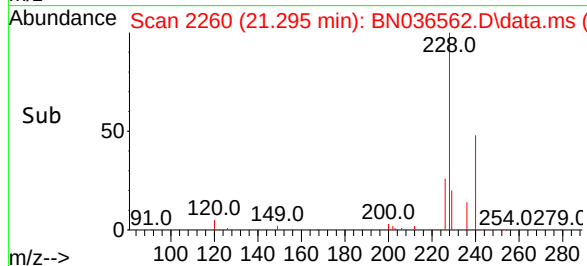
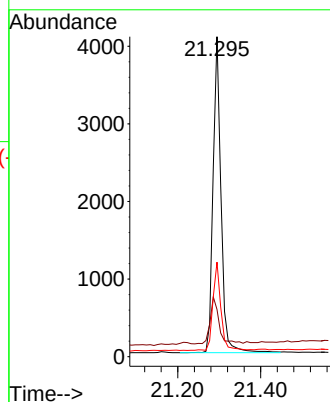
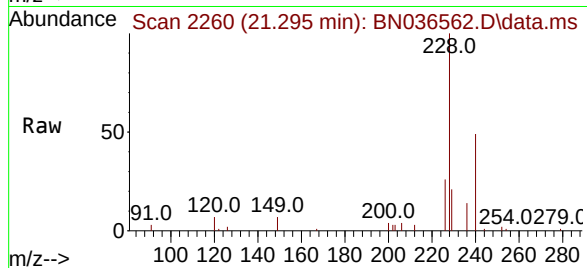
Tgt Ion:240 Resp: 5439

Ion Ratio Lower Upper

240 100

120 14.8 14.6 22.0

236 29.5 24.1 36.1



#30

Pyrene

Concen: 3.260 ng

RT: 19.531 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

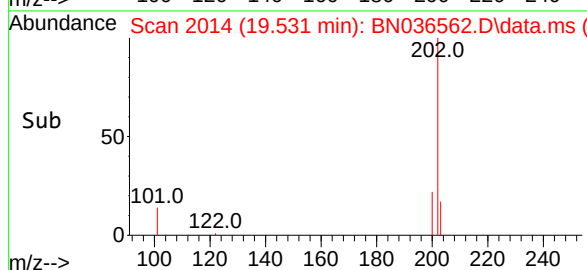
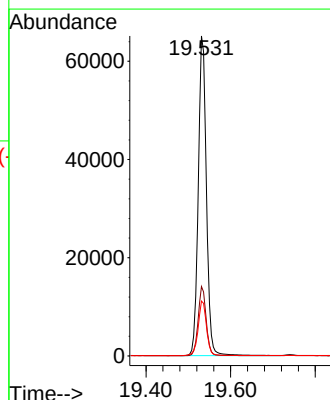
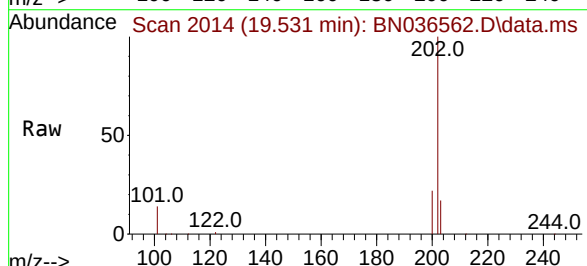
Tgt Ion:202 Resp: 86694

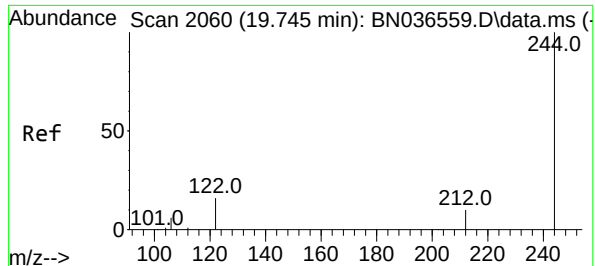
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.6 14.1 21.1

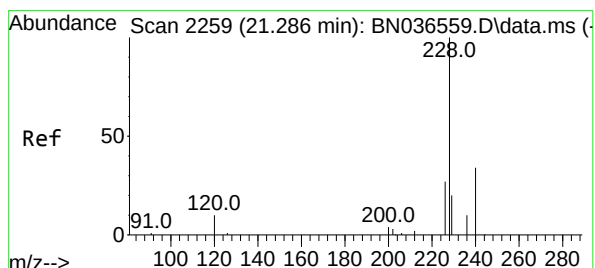
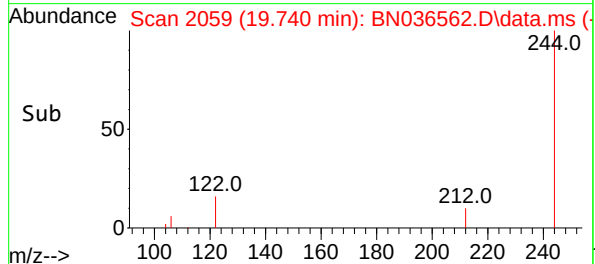
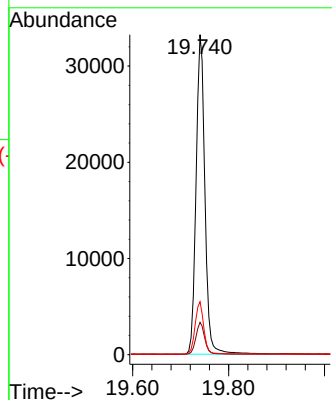
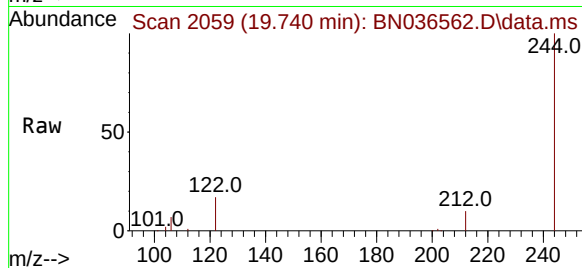




#31
Terphenyl-d14
Concen: 3.297 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

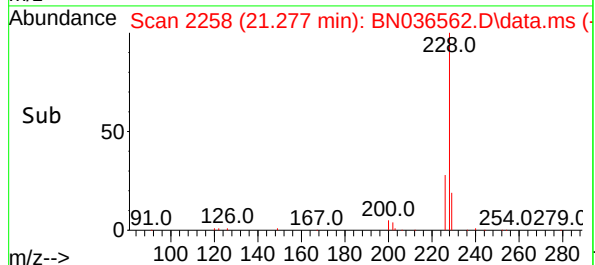
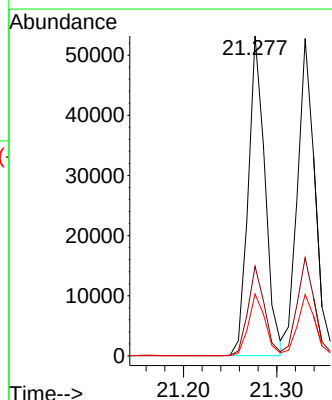
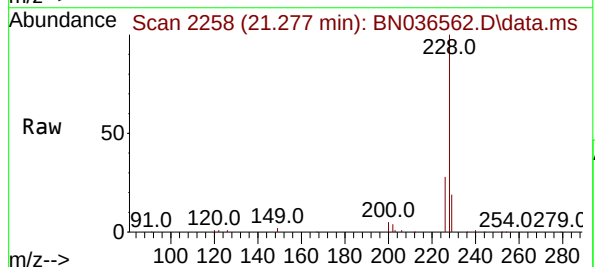
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

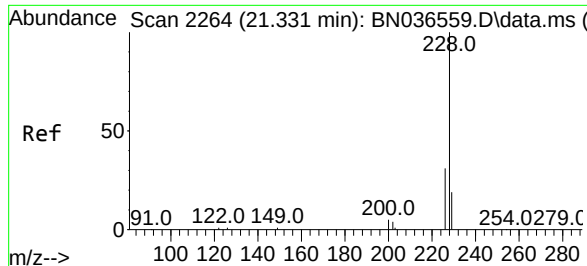
Tgt Ion:244 Resp: 42959
Ion Ratio Lower Upper
244 100
212 10.1 9.6 14.4
122 16.6 13.9 20.9



#32
Benzo(a)anthracene
Concen: 3.516 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036562.D
Acq: 10 Mar 2025 14:43

Tgt Ion:228 Resp: 66496
Ion Ratio Lower Upper
228 100
226 28.0 22.5 33.7
229 19.4 16.6 25.0





#33

Chrysene

Concen: 3.403 ng

RT: 21.331 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

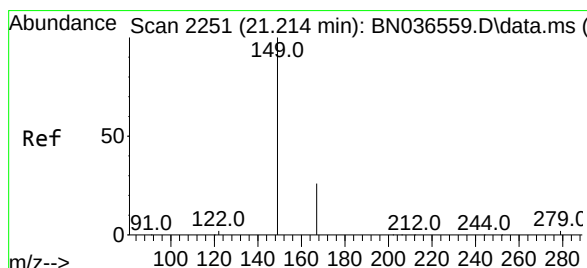
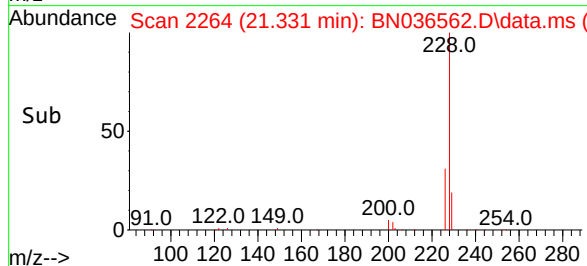
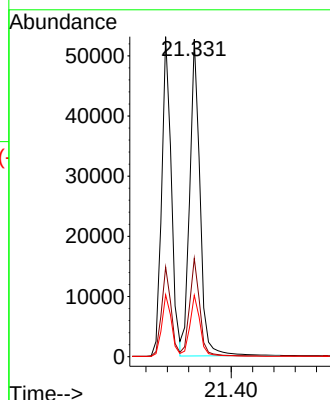
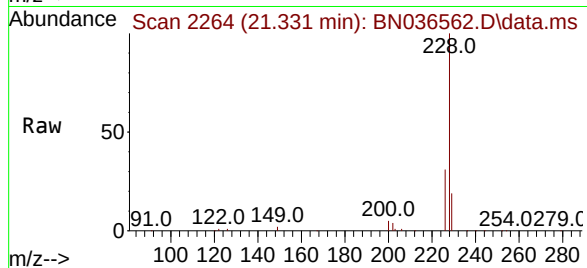
Tgt Ion:228 Resp: 70334

Ion Ratio Lower Upper

228 100

226 31.0 25.3 37.9

229 19.4 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.947 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

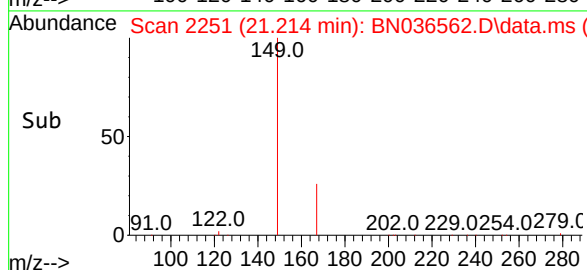
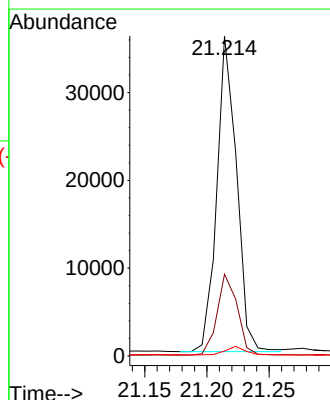
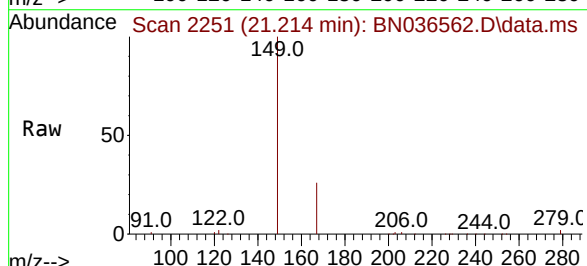
Tgt Ion:149 Resp: 39682

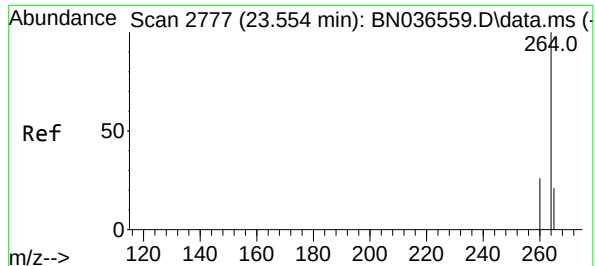
Ion Ratio Lower Upper

149 100

167 26.3 20.7 31.1

279 2.6 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.551 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

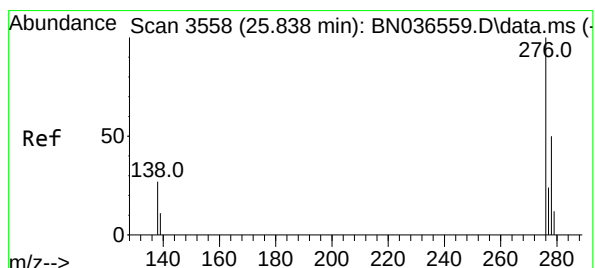
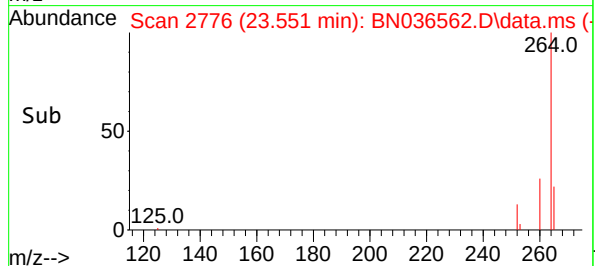
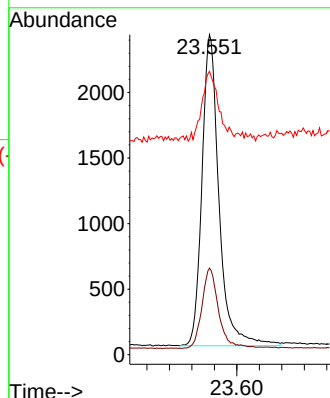
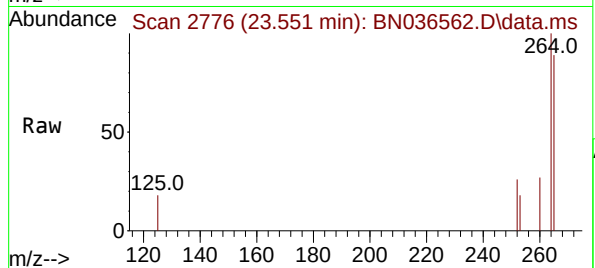
Tgt Ion:264 Resp: 5002

Ion Ratio Lower Upper

264 100

260 27.0 22.6 33.8

265 88.6 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.754 ng

RT: 25.829 min Scan# 3555

Delta R.T. -0.009 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

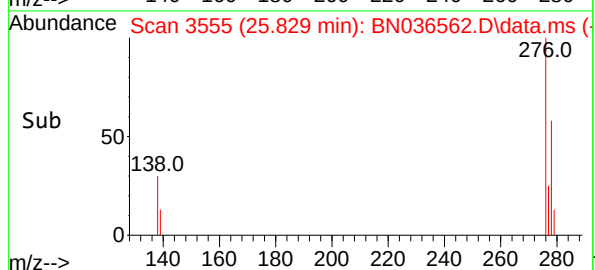
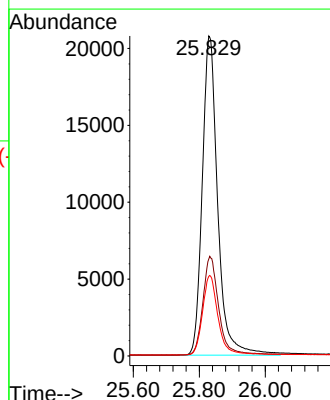
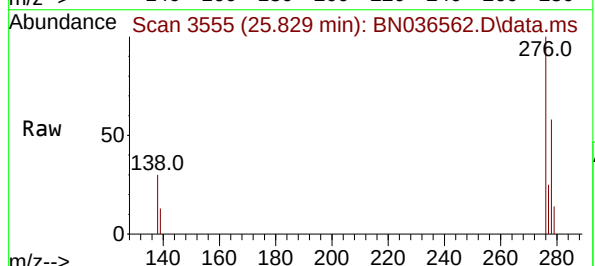
Tgt Ion:276 Resp: 67767

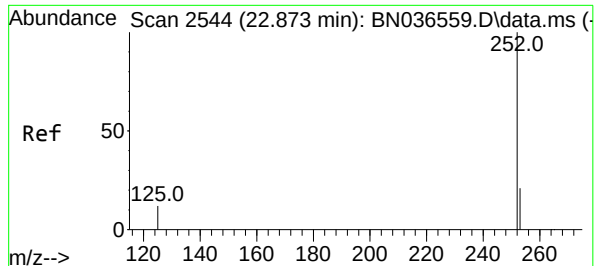
Ion Ratio Lower Upper

276 100

138 31.3 23.4 35.2

277 24.8 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 3.506 ng

RT: 22.870 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

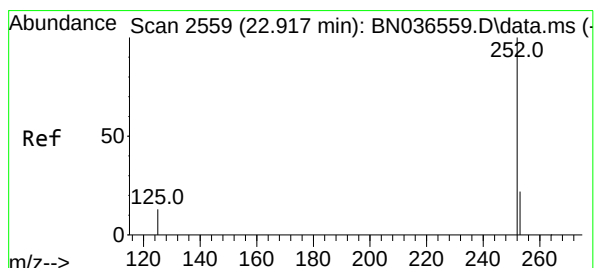
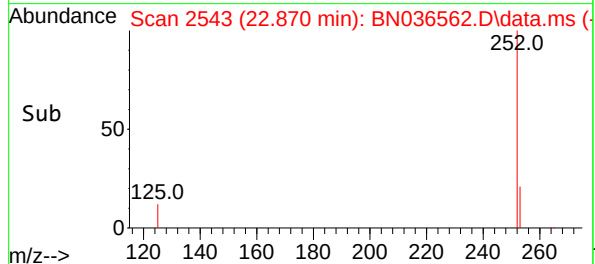
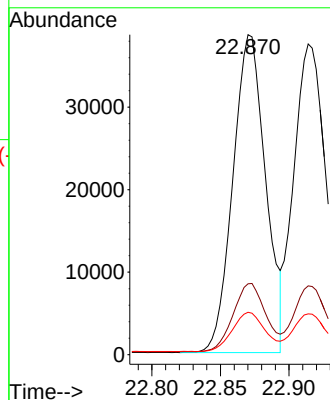
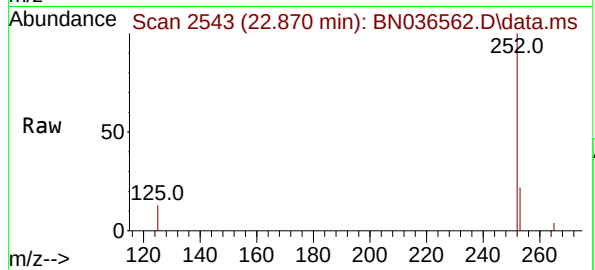
Tgt Ion:252 Resp: 63823

Ion Ratio Lower Upper

252 100

253 22.2 23.9 35.9#

125 13.3 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 3.425 ng

RT: 22.914 min Scan# 2558

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

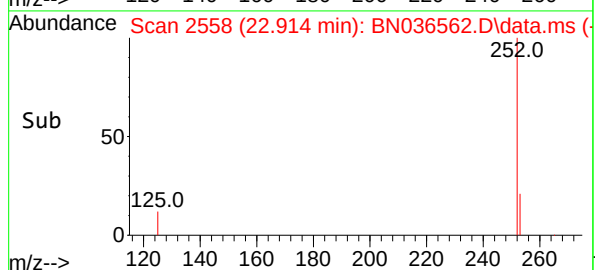
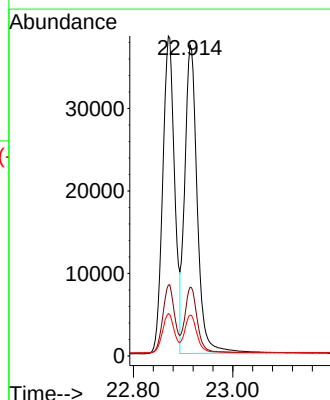
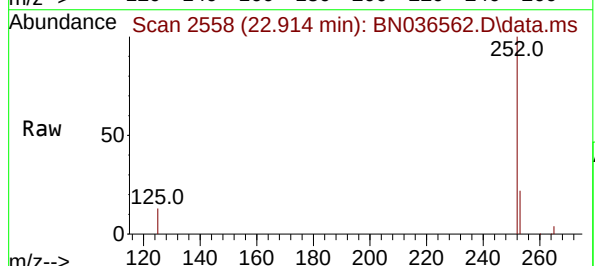
Tgt Ion:252 Resp: 65410

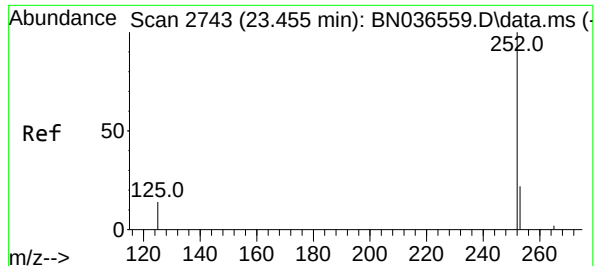
Ion Ratio Lower Upper

252 100

253 22.1 24.6 36.8#

125 13.2 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 3.523 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

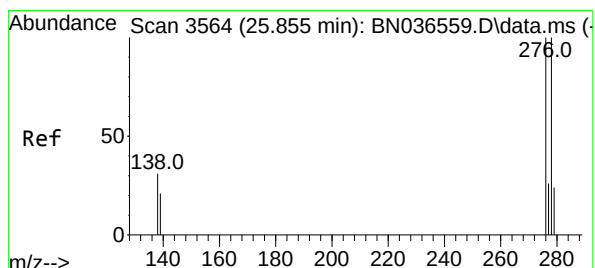
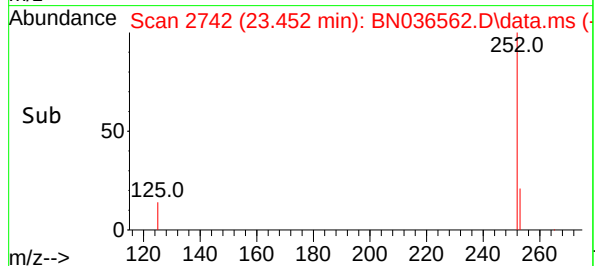
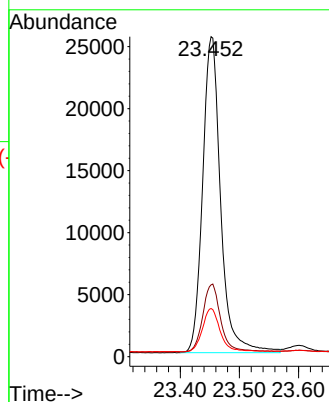
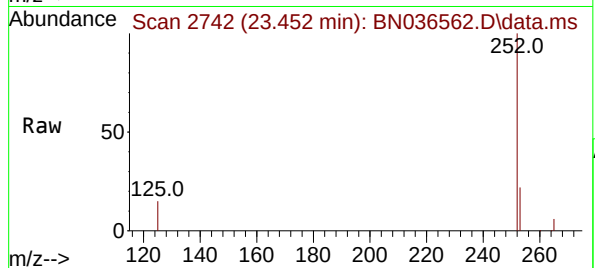
Tgt Ion:252 Resp: 54009

Ion Ratio Lower Upper

252 100

253 22.4 27.8 41.8#

125 15.1 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 3.846 ng

RT: 25.843 min Scan# 3560

Delta R.T. -0.012 min

Lab File: BN036562.D

Acq: 10 Mar 2025 14:43

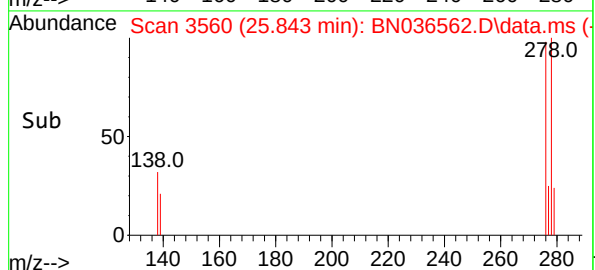
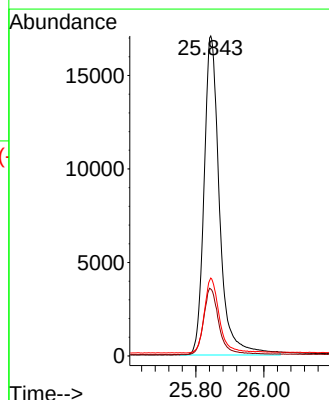
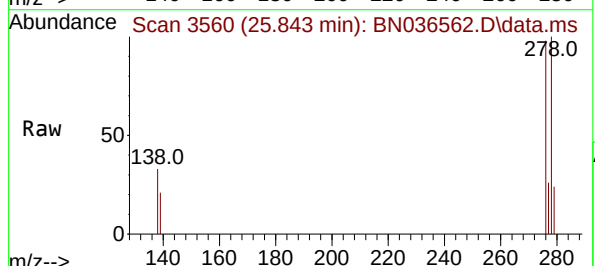
Tgt Ion:278 Resp: 54058

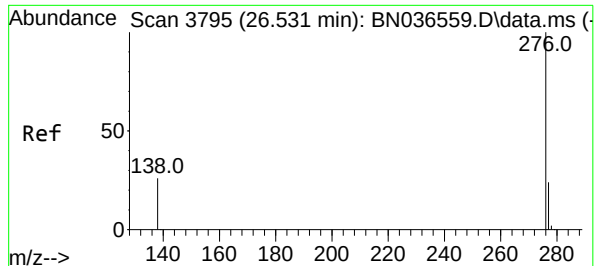
Ion Ratio Lower Upper

278 100

139 20.9 20.8 31.2

279 24.4 28.8 43.2#





#41

Benzo(g,h,i)perylene

Concen: 3.606 ng

RT: 26.528 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN036562.D

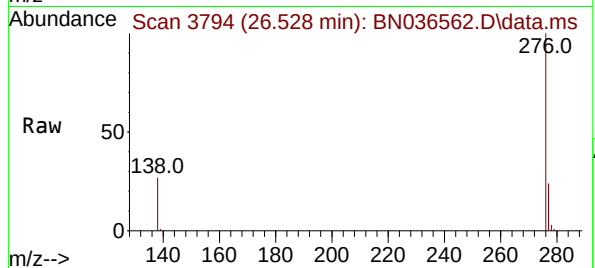
Acq: 10 Mar 2025 14:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



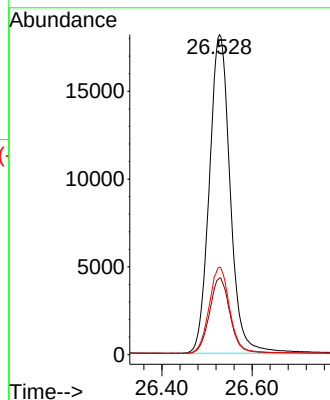
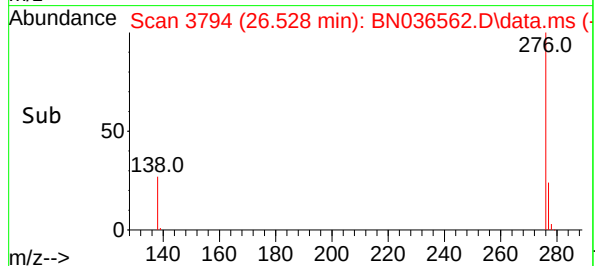
Tgt Ion:276 Resp: 57986

Ion Ratio Lower Upper

276 100

277 24.0 22.2 33.4

138 27.4 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036563.D
 Acq On : 10 Mar 2025 15:19
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Mar 10 16:03:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

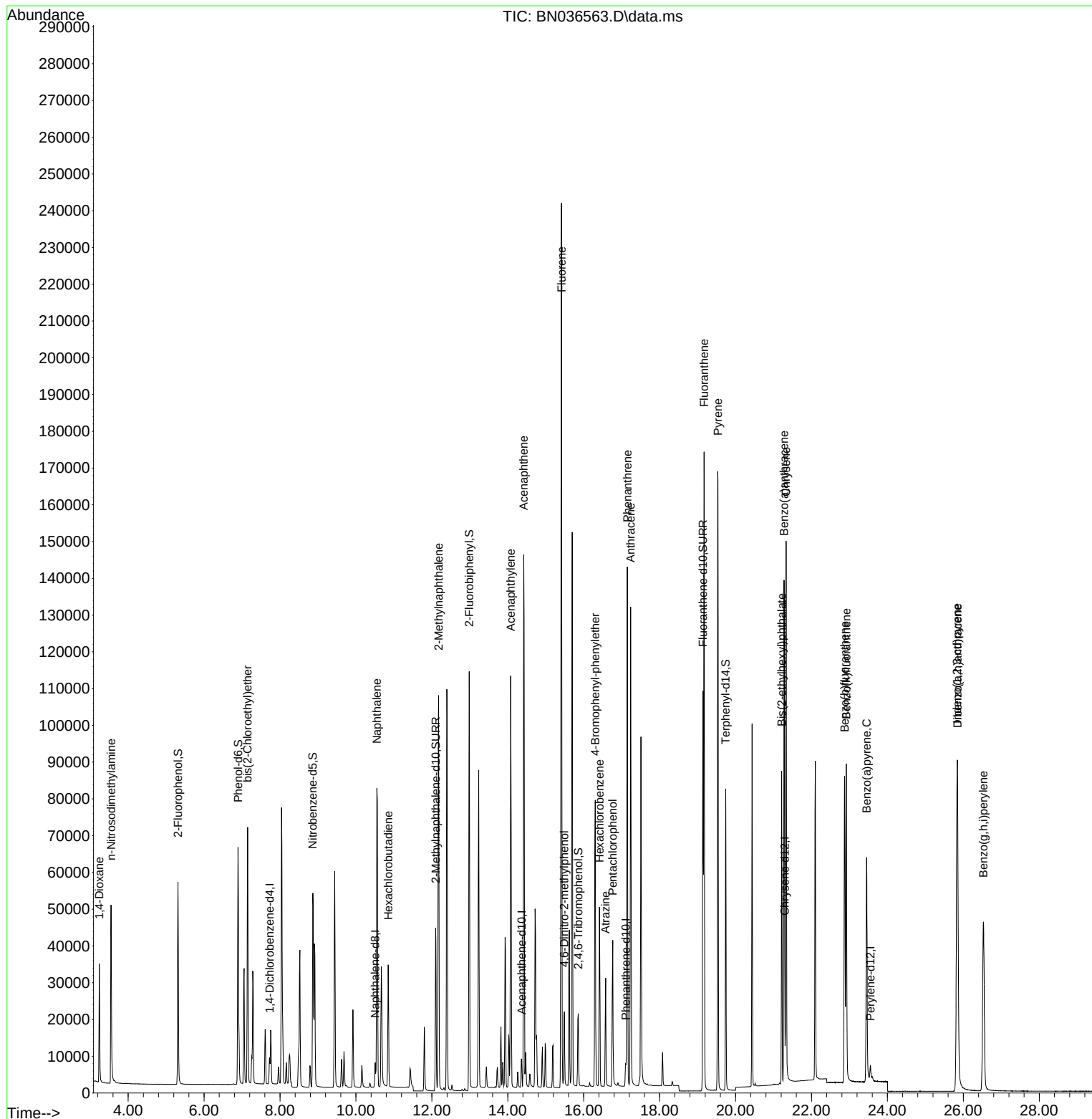
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	3261	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	7995	0.400	ng	# 0.00
13) Acenaphthene-d10	14.366	164	4664	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	9061	0.400	ng	0.00
29) Chrysene-d12	21.295	240	6472	0.400	ng	0.00
35) Perylene-d12	23.551	264	5580	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	37154	4.889	ng	0.00
5) Phenol-d6	6.894	99	48085	5.122	ng	0.00
8) Nitrobenzene-d5	8.864	82	41042	4.719	ng	-0.01
11) 2-Methylnaphthalene-d10	12.101	152	58048	4.881	ng	-0.01
14) 2,4,6-Tribromophenol	15.858	330	10964	5.181	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	141052	5.199	ng	0.00
27) Fluoranthene-d10	19.141	212	113317	4.879	ng	0.00
31) Terphenyl-d14	19.740	244	74923	4.832	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	16253	4.492	ng	97
3) n-Nitrosodimethylamine	3.550	42	32163	4.395	ng	# 95
6) bis(2-Chloroethyl)ether	7.146	93	44986	4.636	ng	99
9) Naphthalene	10.551	128	109289	4.647	ng	97
10) Hexachlorobutadiene	10.850	225	25105	4.535	ng	# 99
12) 2-Methylnaphthalene	12.177	142	73010	4.879	ng	98
16) Acenaphthylene	14.077	152	112792	5.125	ng	99
17) Acenaphthene	14.420	154	72446	5.028	ng	96
18) Fluorene	15.414	166	96215	4.937	ng	97
20) 4,6-Dinitro-2-methylph...	15.489	198	12627	4.968	ng	# 56
21) 4-Bromophenyl-phenylether	16.304	248	28657	5.048	ng	# 81
22) Hexachlorobenzene	16.416	284	32686	4.770	ng	99
23) Atrazine	16.577	200	22705	4.988	ng	# 90
24) Pentachlorophenol	16.764	266	17612	5.634	ng	99
25) Phenanthrene	17.148	178	135347	4.979	ng	100
26) Anthracene	17.235	178	125954	5.135	ng	99
28) Fluoranthene	19.169	202	149107	4.883	ng	99
30) Pyrene	19.536	202	148584	4.695	ng	100
32) Benzo(a)anthracene	21.277	228	114481	5.087	ng	98
33) Chrysene	21.331	228	117149	4.764	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	70345	4.390	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.835	276	109561	5.440	ng	98
37) Benzo(b)fluoranthene	22.873	252	104498	5.146	ng	# 84
38) Benzo(k)fluoranthene	22.917	252	106995	5.022	ng	# 82
39) Benzo(a)pyrene	23.452	252	88413	5.170	ng	# 76
40) Dibenzo(a,h)anthracene	25.846	278	87308	5.568	ng	# 84
41) Benzo(g,h,i)perylene	26.531	276	93067	5.189	ng	93

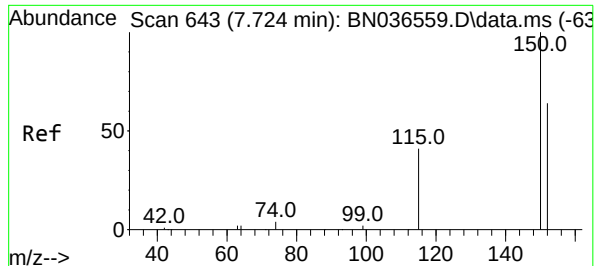
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036563.D
Acq On : 10 Mar 2025 15:19
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Mar 10 16:03:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration

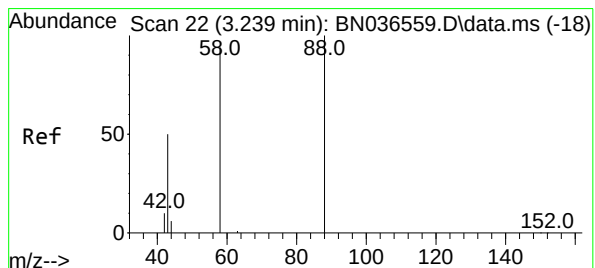
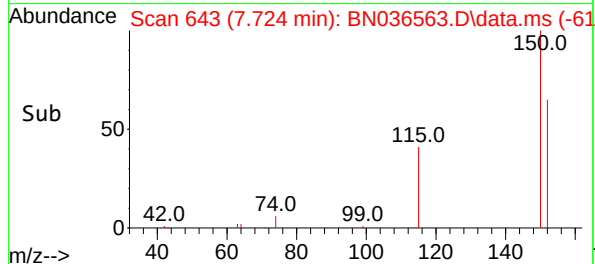
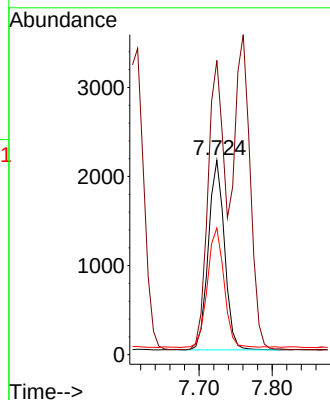
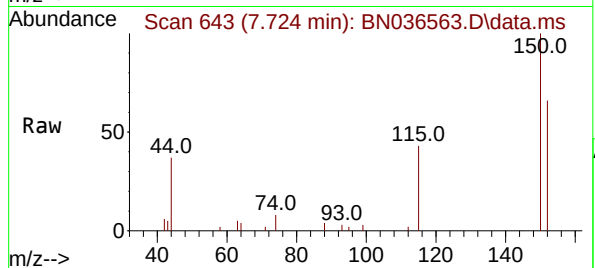




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

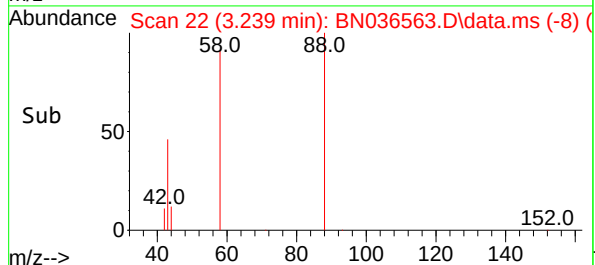
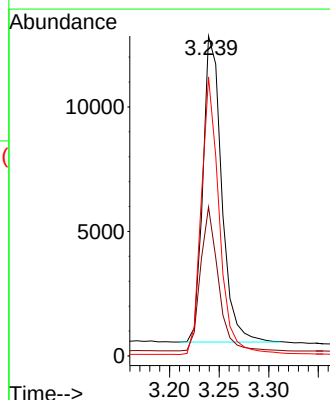
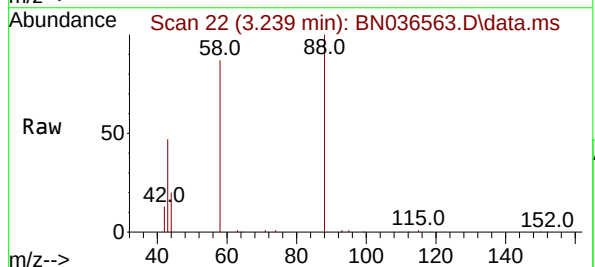
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

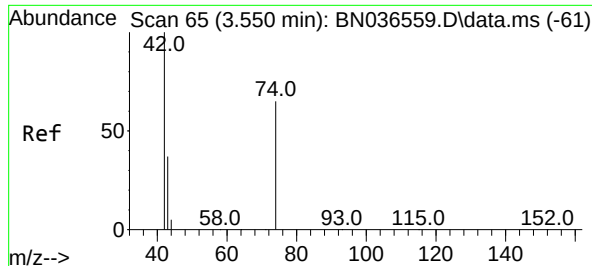
Tgt Ion:152 Resp: 3261
Ion Ratio Lower Upper
152 100
150 151.3 123.7 185.5
115 65.2 54.3 81.5



#2
1,4-Dioxane
Concen: 4.492 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 88 Resp: 16253
Ion Ratio Lower Upper
88 100
43 44.3 37.8 56.8
58 86.4 67.4 101.2

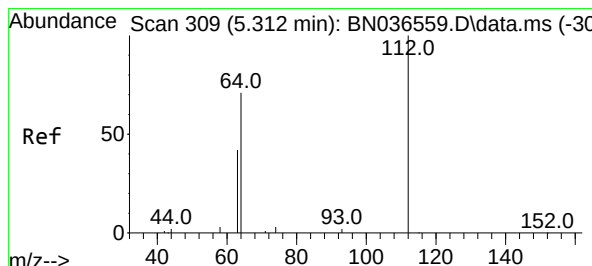
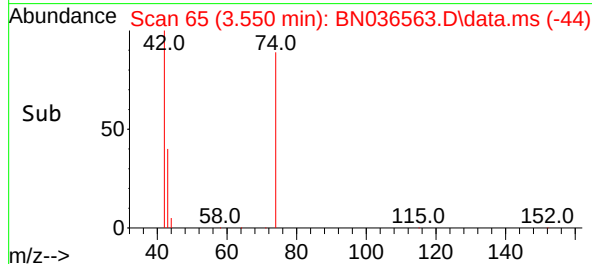
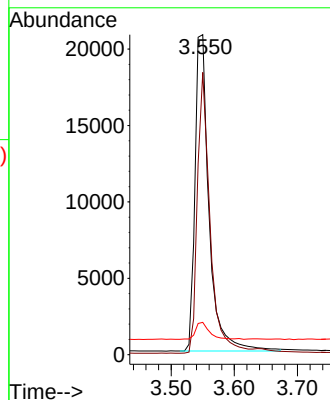
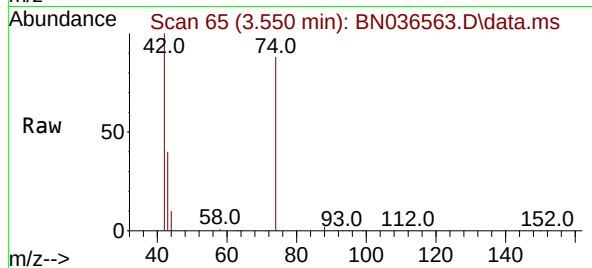




#3
n-Nitrosodimethylamine
Concen: 4.395 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

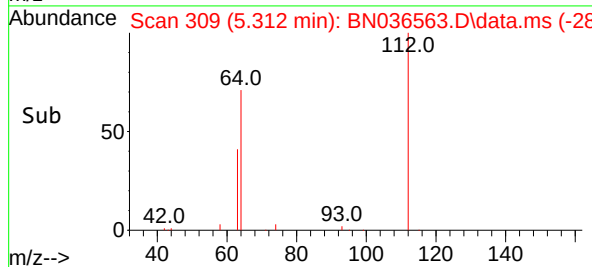
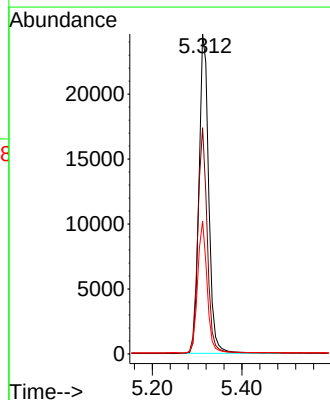
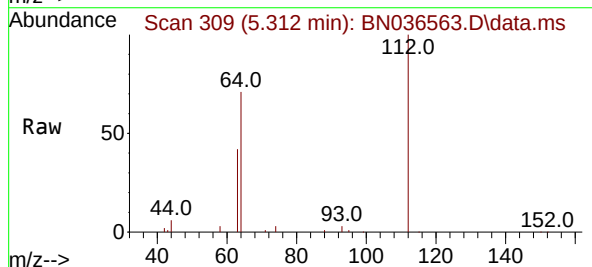
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

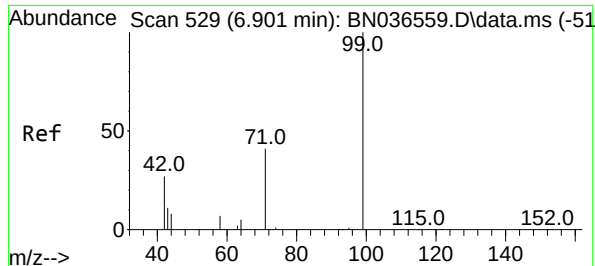
Tgt Ion: 42 Resp: 32163
Ion Ratio Lower Upper
42 100
74 79.9 60.6 90.8
44 5.3 6.3 9.5#



#4
2-Fluorophenol
Concen: 4.889 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 112 Resp: 37154
Ion Ratio Lower Upper
112 100
64 68.5 53.1 79.7
63 40.1 31.8 47.8

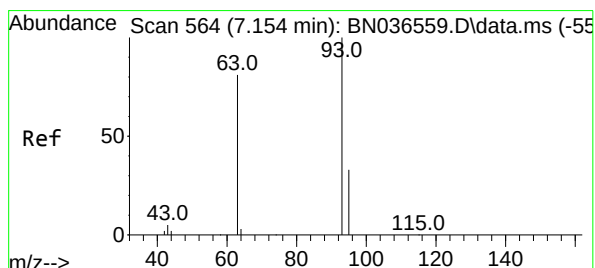
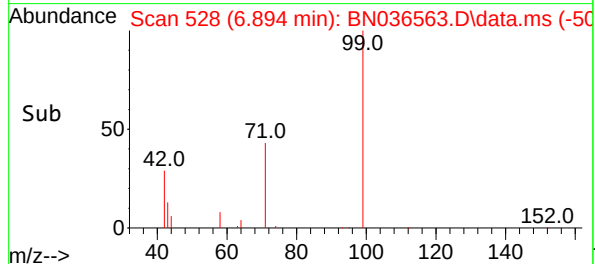
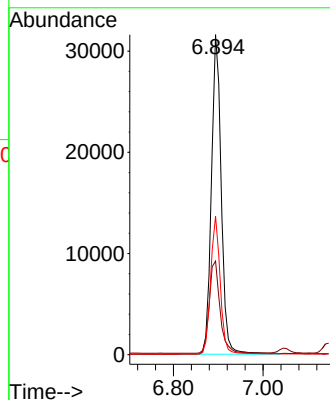
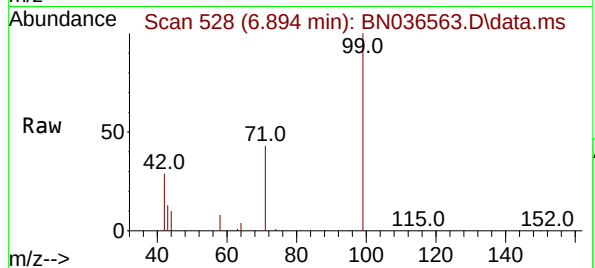




#5
Phenol-d6
Concen: 5.122 ng
RT: 6.894 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

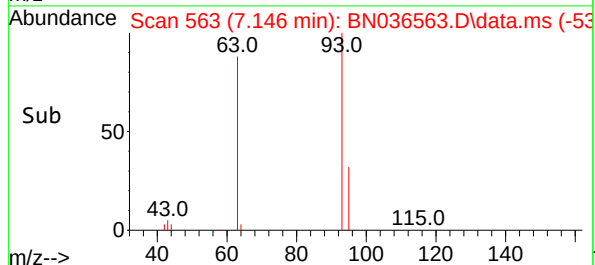
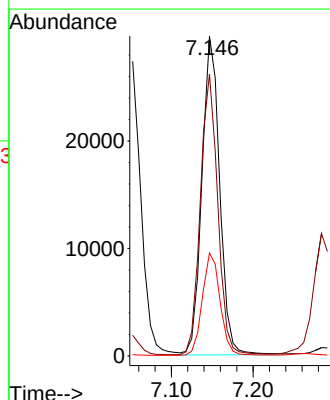
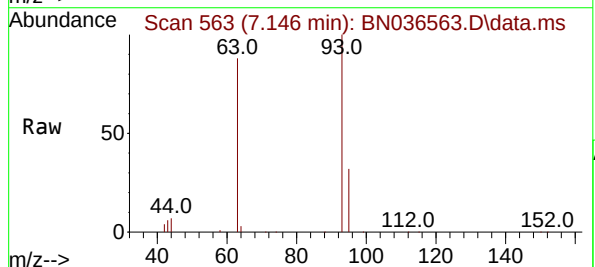
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

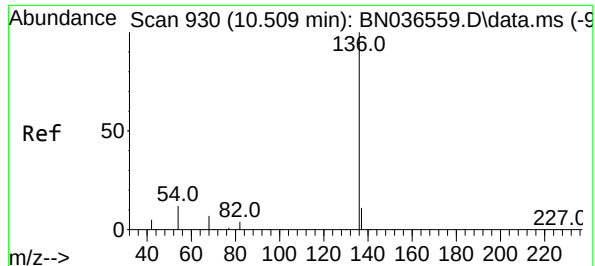
Tgt Ion: 99 Resp: 48085
Ion Ratio Lower Upper
99 100
42 31.8 26.5 39.7
71 42.6 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 4.636 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion: 93 Resp: 44986
Ion Ratio Lower Upper
93 100
63 85.8 67.7 101.5
95 32.0 25.6 38.4

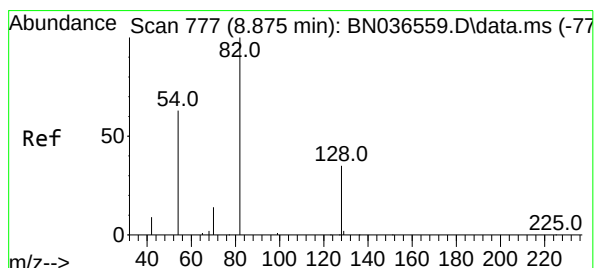
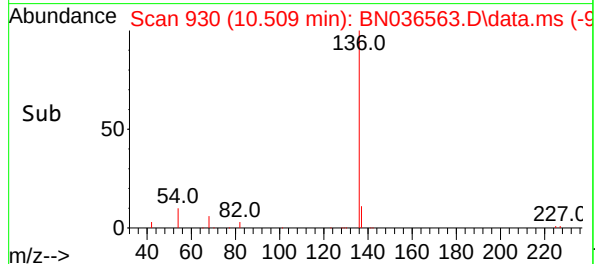
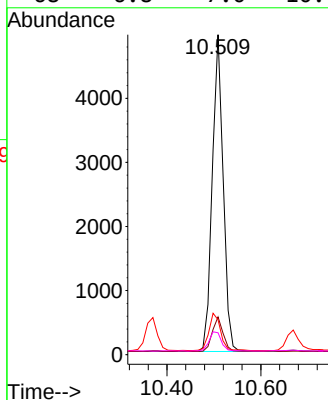
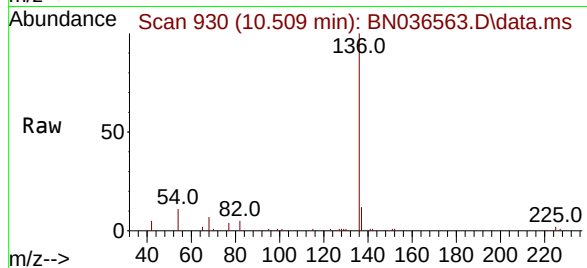




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

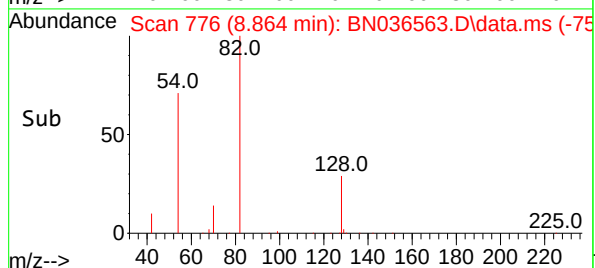
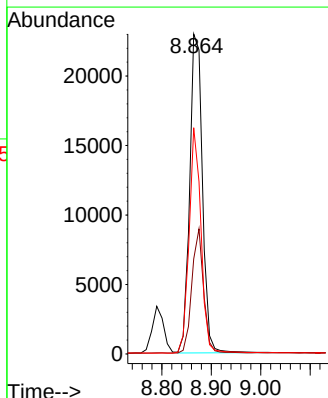
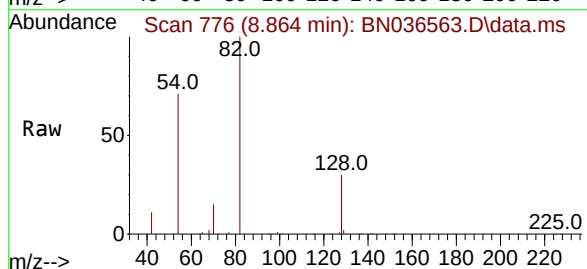
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

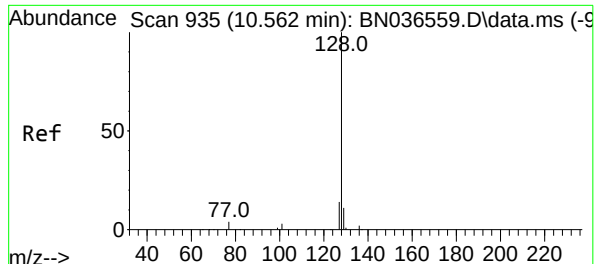
Tgt Ion:	136	Resp:	7995
Ion	Ratio	Lower	Upper
136	100		
137	11.8	10.3	15.5
54	10.9	11.5	17.3#
68	6.8	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 4.719 ng
RT: 8.864 min Scan# 776
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:	82	Resp:	41042
Ion	Ratio	Lower	Upper
82	100		
128	29.7	30.6	45.8#
54	70.7	52.2	78.4

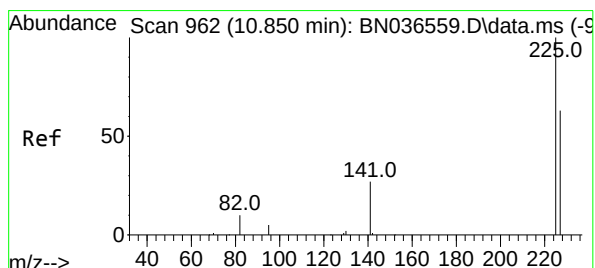
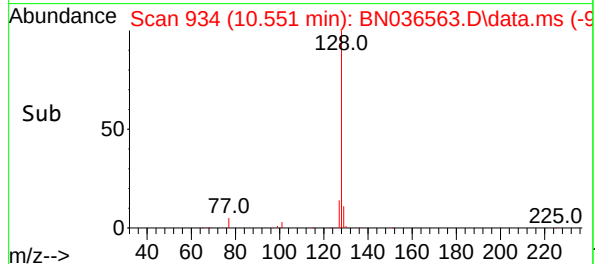
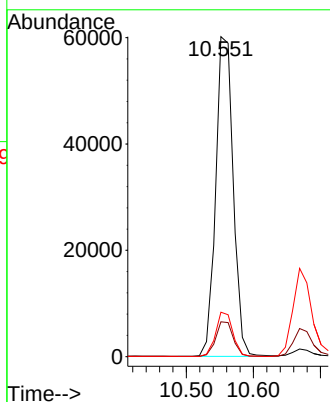
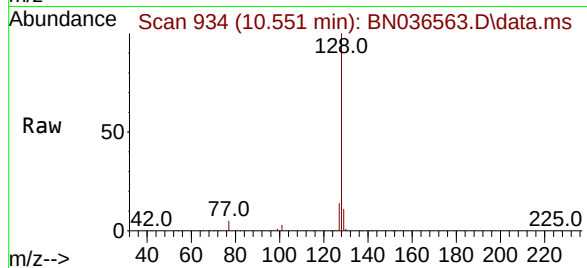




#9
Naphthalene
Concen: 4.647 ng
RT: 10.551 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

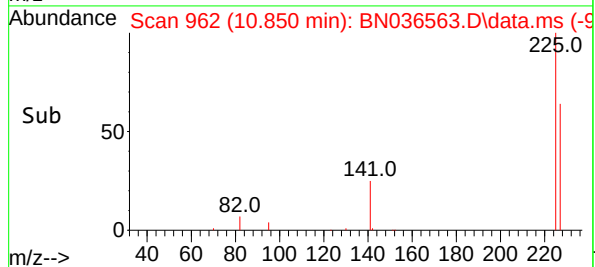
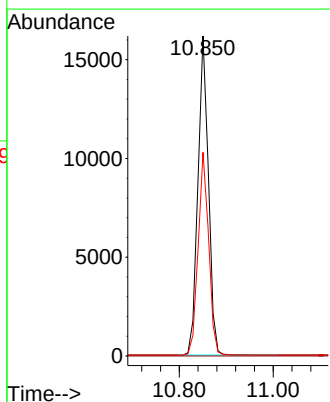
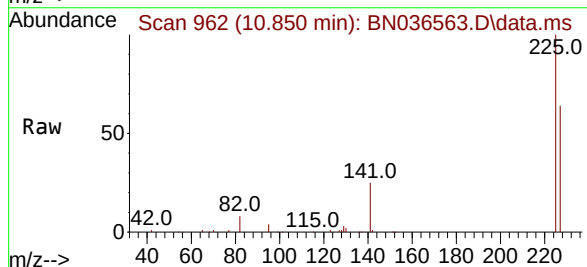
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

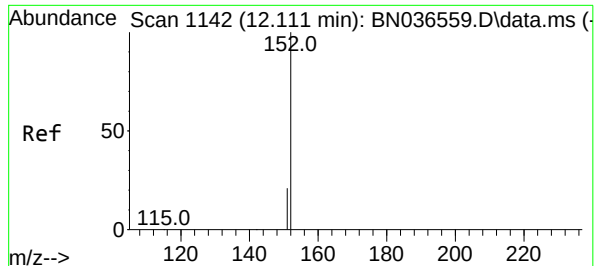
Tgt Ion:128 Resp: 109289
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.9 11.8 17.8



#10
Hexachlorobutadiene
Concen: 4.535 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:225 Resp: 25105
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.8 77.8

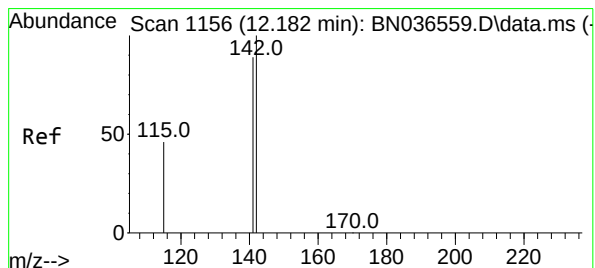
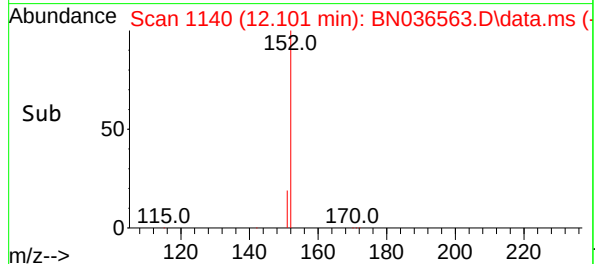
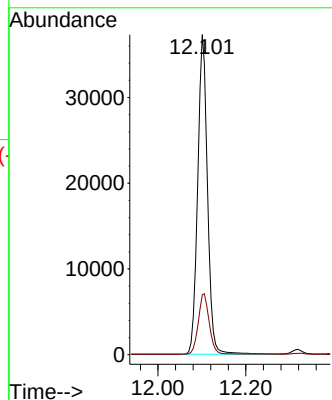
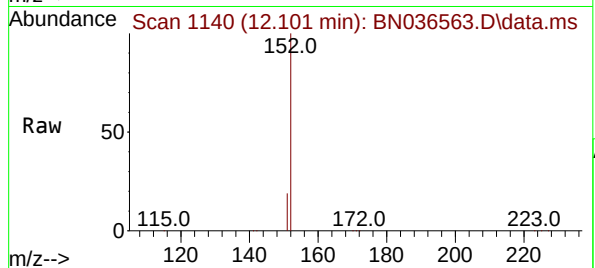




#11
2-Methylnaphthalene-d10
Concen: 4.881 ng
RT: 12.101 min Scan# 1142
Delta R.T. -0.010 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

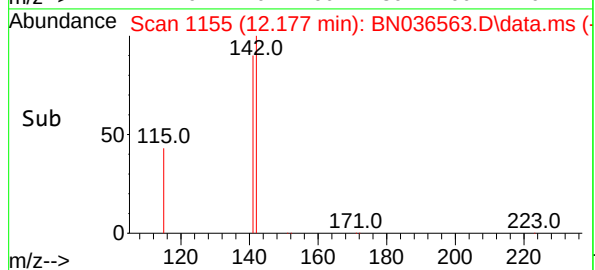
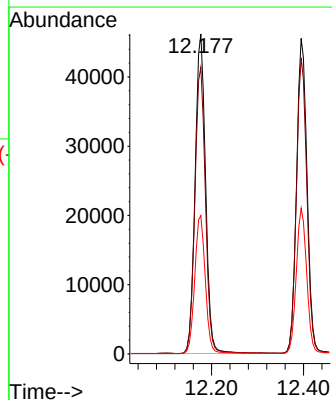
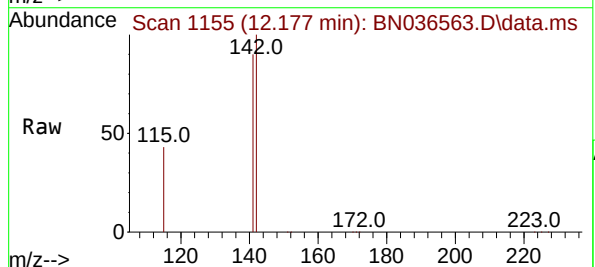
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

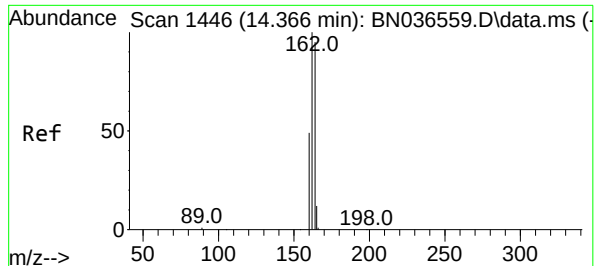
Tgt Ion:152 Resp: 58048
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 4.879 ng
RT: 12.177 min Scan# 1155
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:142 Resp: 73010
Ion Ratio Lower Upper
142 100
141 89.6 71.7 107.5
115 43.2 38.3 57.5

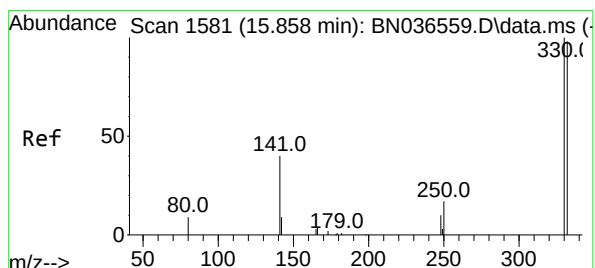
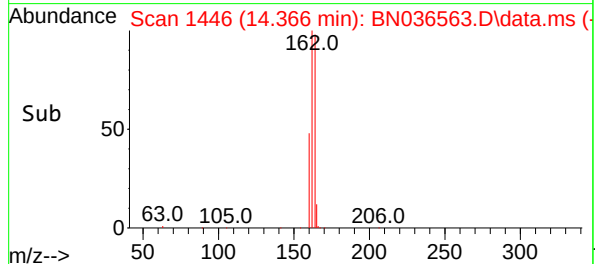
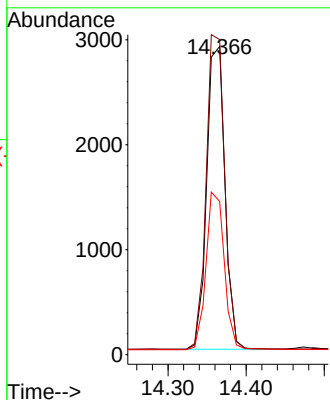
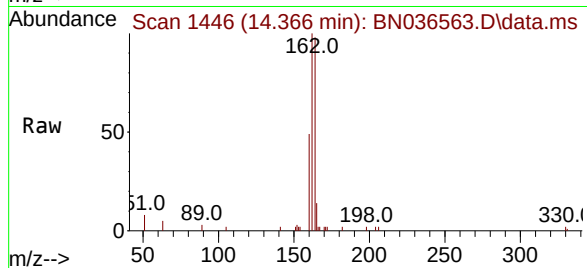




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

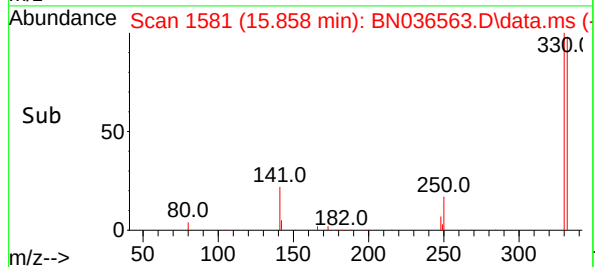
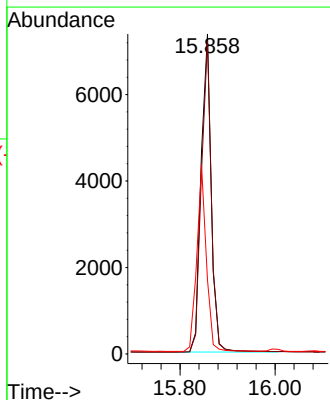
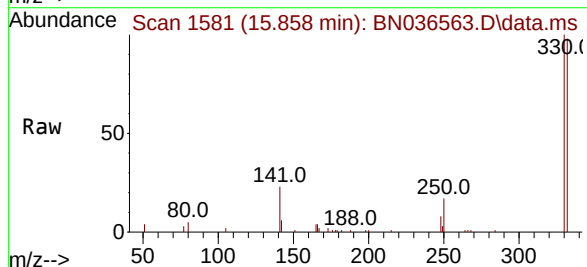
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

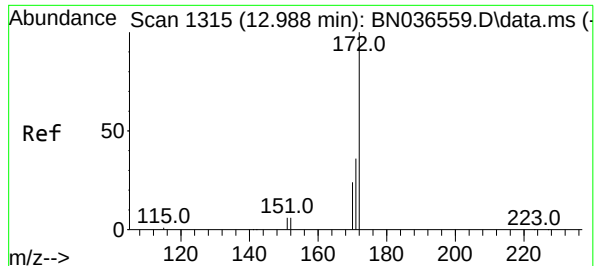
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.2	84.2	126.2
160	49.7	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 5.181 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.9	75.2	112.8
141	54.7	43.4	65.2





#15

2-Fluorobiphenyl

Concen: 5.199 ng

RT: 12.983 min Scan# 1

Delta R.T. -0.005 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

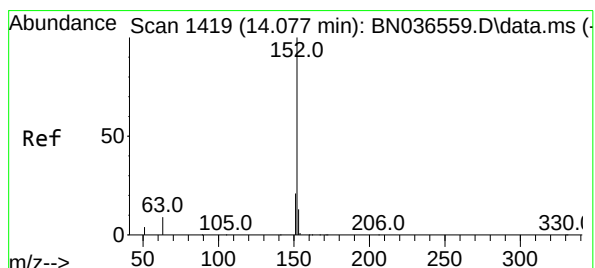
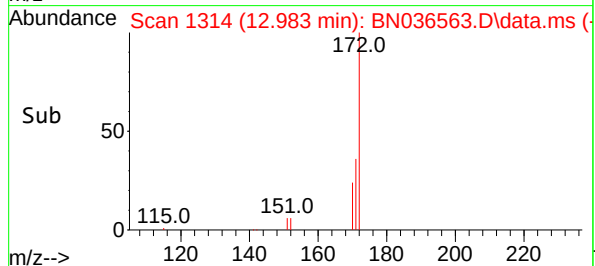
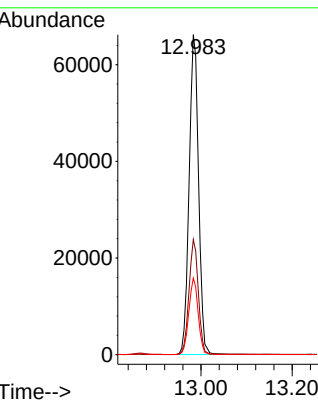
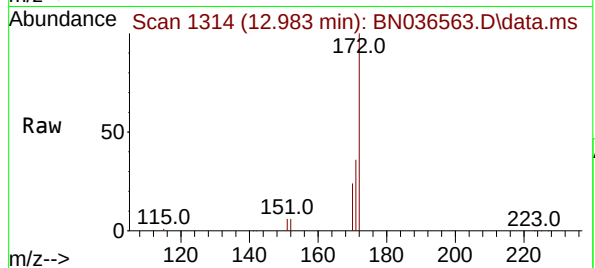
Tgt Ion:172 Resp: 141052

Ion Ratio Lower Upper

172 100

171 36.0 29.5 44.3

170 24.0 20.2 30.4



#16

Acenaphthylene

Concen: 5.125 ng

RT: 14.077 min Scan# 1419

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

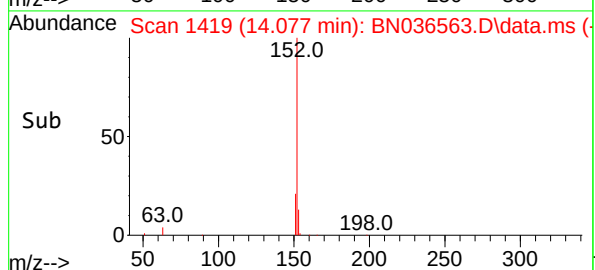
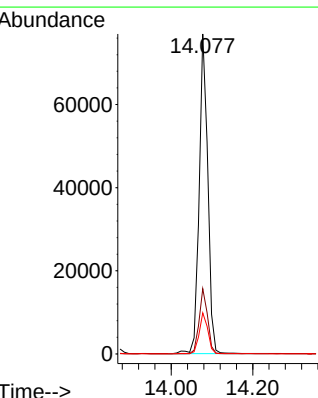
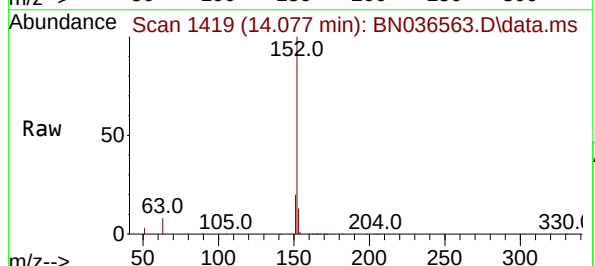
Tgt Ion:152 Resp: 112792

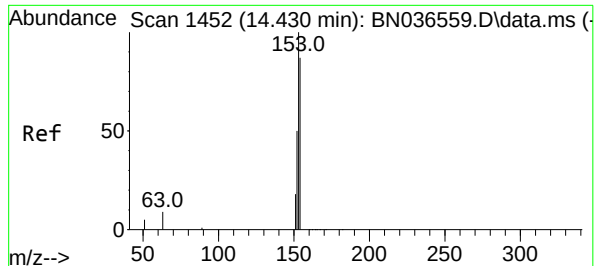
Ion Ratio Lower Upper

152 100

151 20.0 16.2 24.4

153 12.8 10.6 15.8





#17

Acenaphthene

Concen: 5.028 ng

RT: 14.420 min Scan# 1451

Delta R.T. -0.011 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

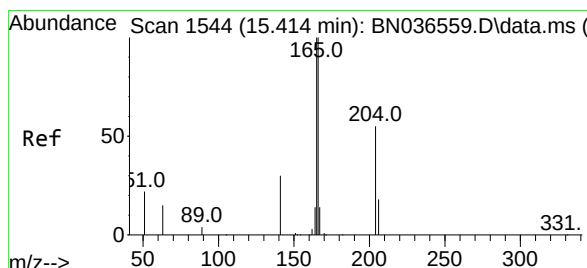
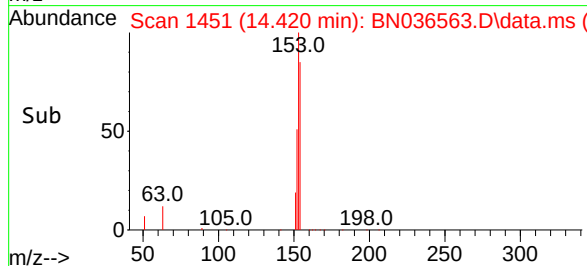
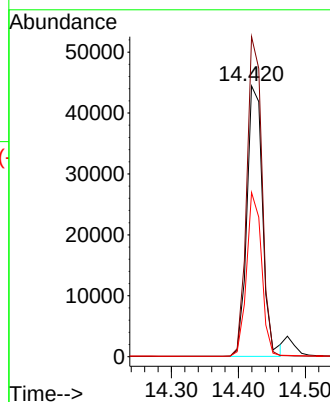
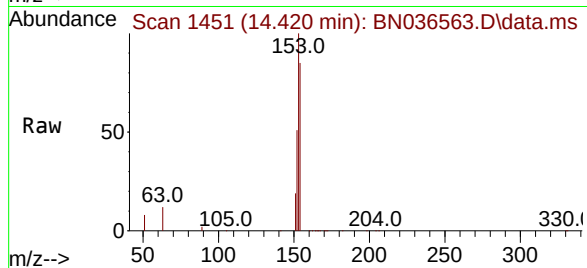
Tgt Ion:154 Resp: 72446

Ion Ratio Lower Upper

154 100

153 114.1 94.1 141.1

152 57.7 49.8 74.6



#18

Fluorene

Concen: 4.937 ng

RT: 15.414 min Scan# 1544

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

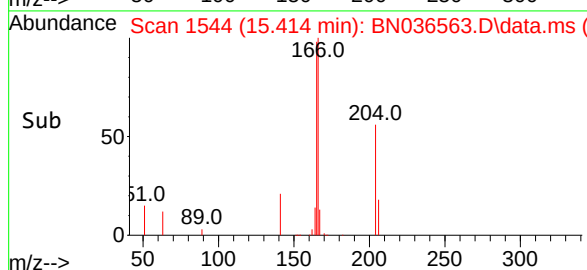
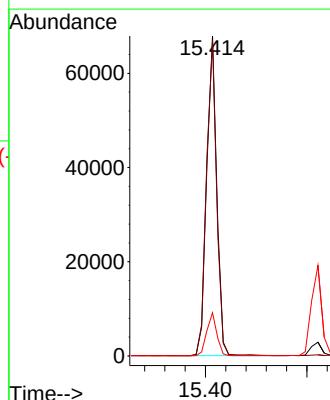
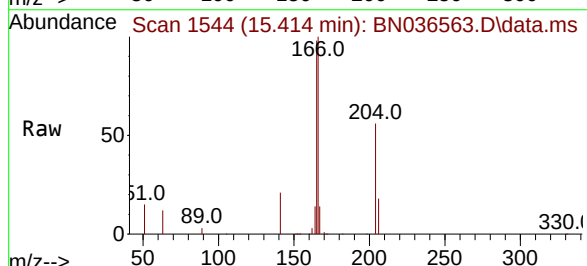
Tgt Ion:166 Resp: 96215

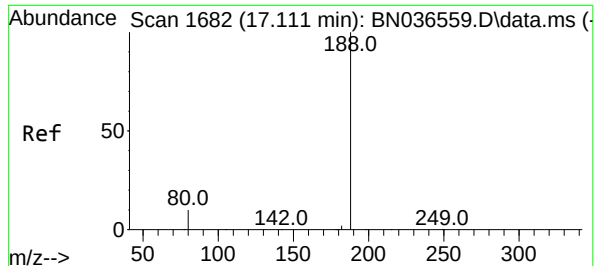
Ion Ratio Lower Upper

166 100

165 96.5 79.8 119.8

167 13.0 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

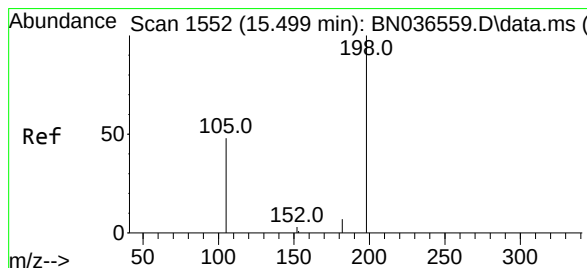
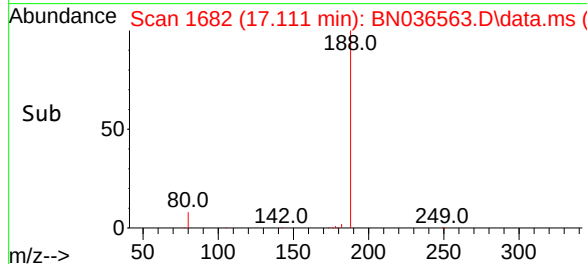
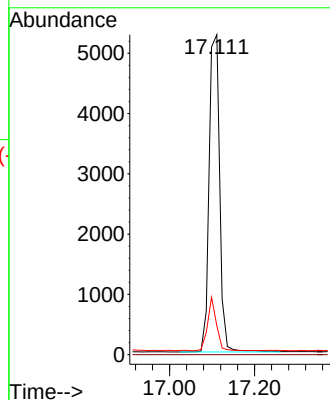
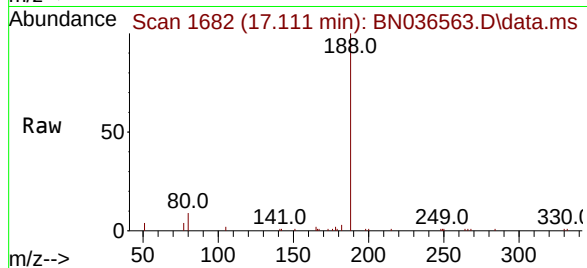
Tgt Ion:188 Resp: 9061

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.1 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 4.968 ng

RT: 15.489 min Scan# 1551

Delta R.T. -0.010 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

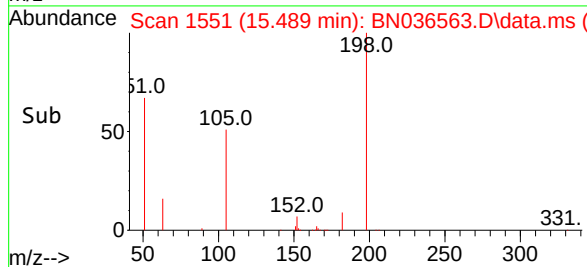
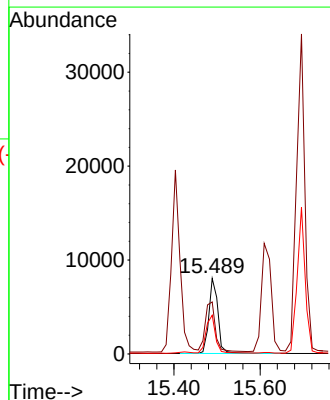
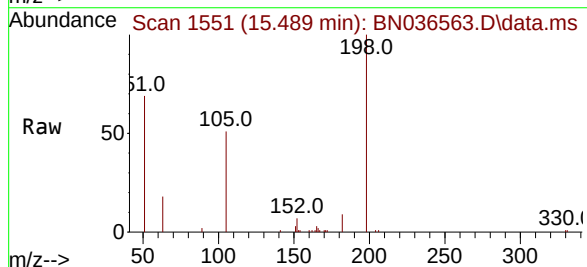
Tgt Ion:198 Resp: 12627

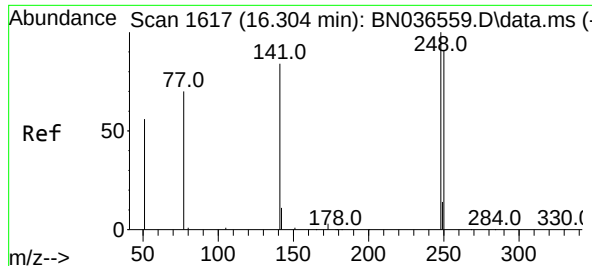
Ion Ratio Lower Upper

198 100

51 68.9 107.9 161.9#

105 51.3 56.2 84.2#

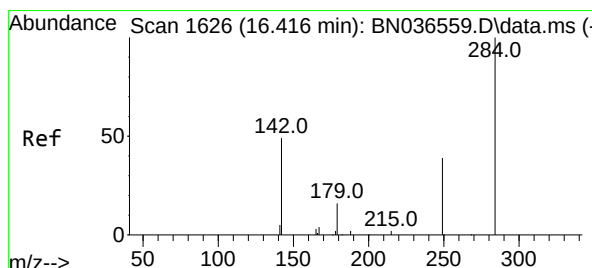
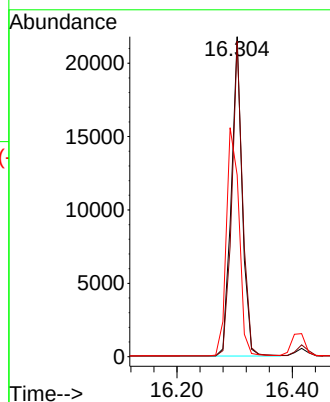
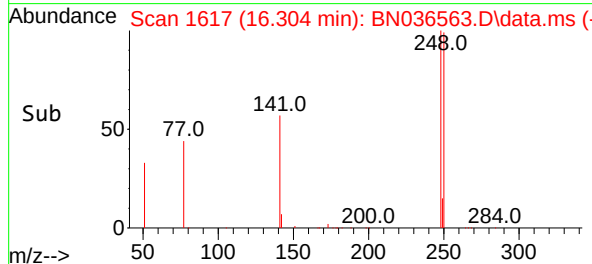
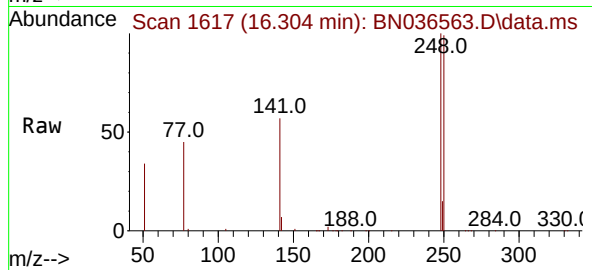




#21
4-Bromophenyl-phenylether
Concen: 5.048 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

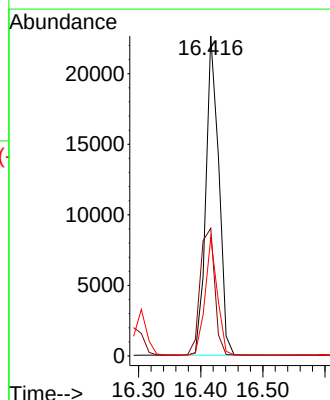
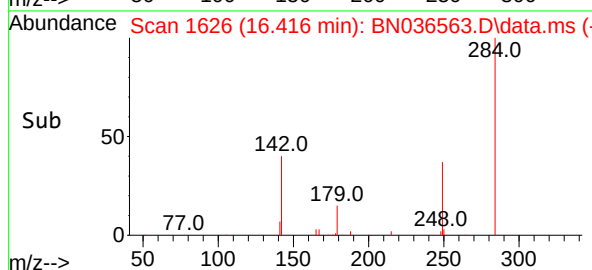
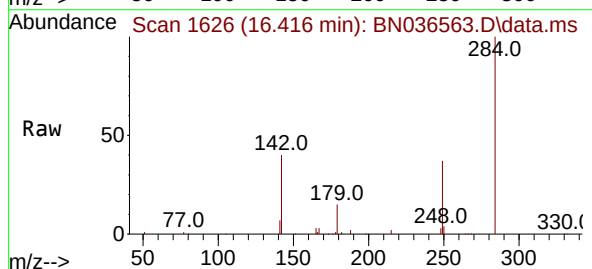
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

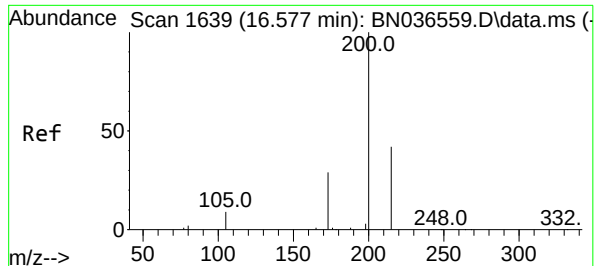
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.6	73.0	109.6
141	56.7	68.6	103.0



#22
Hexachlorobenzene
Concen: 4.770 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion	Ratio	Lower	Upper
284	100		
142	45.1	37.0	55.4
249	35.1	28.1	42.1

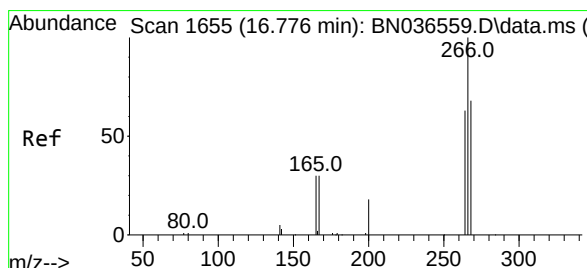
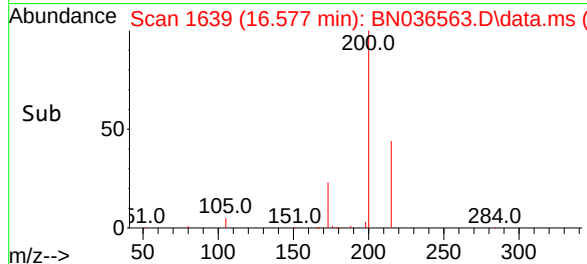
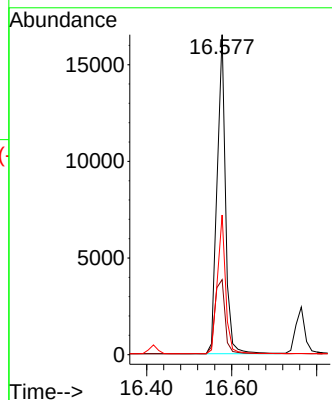
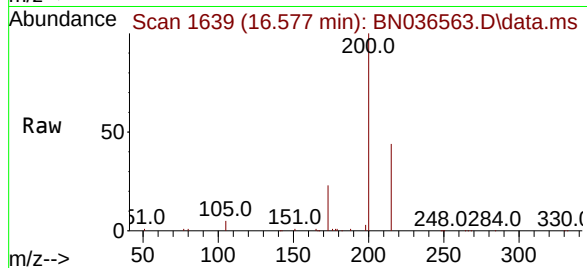




#23
Atrazine
Concen: 4.988 ng
RT: 16.577 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

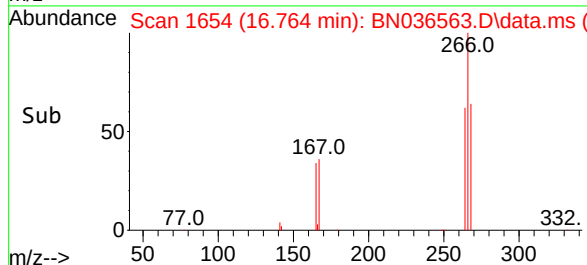
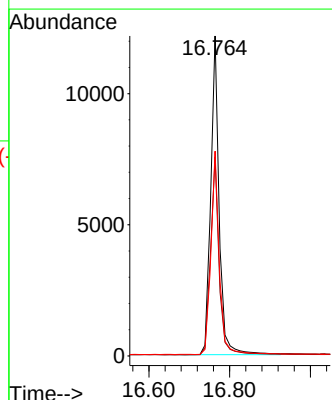
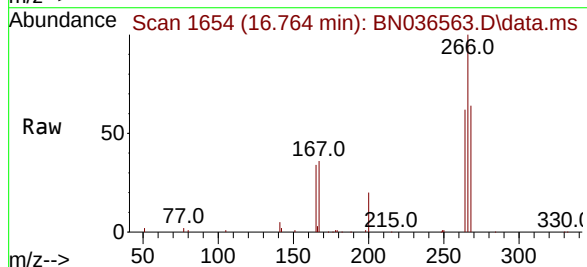
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

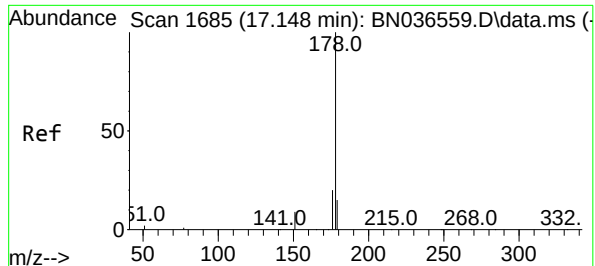
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.4	27.3	40.9#
215	43.7	36.8	55.2



#24
Pentachlorophenol
Concen: 5.634 ng
RT: 16.764 min Scan# 1654
Delta R.T. -0.012 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.1	49.6	74.4
268	63.7	50.9	76.3





#25

Phenanthrene

Concen: 4.979 ng

RT: 17.148 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

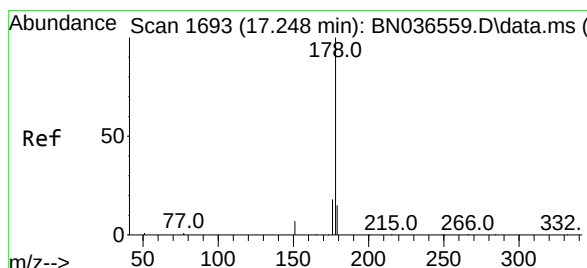
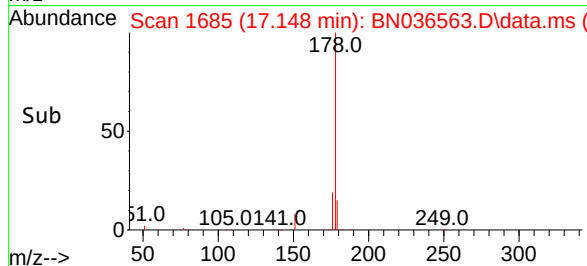
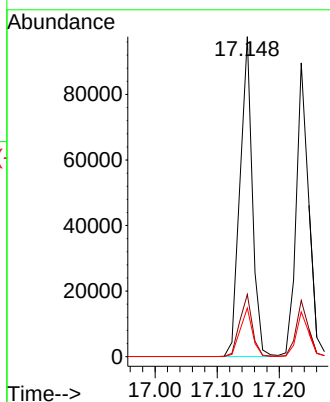
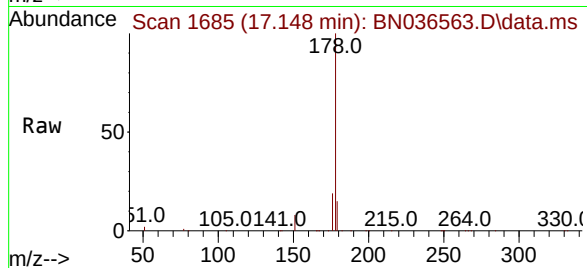
Tgt Ion:178 Resp: 135347

Ion Ratio Lower Upper

178 100

176 19.7 15.9 23.9

179 15.2 12.2 18.4



#26

Anthracene

Concen: 5.135 ng

RT: 17.235 min Scan# 1692

Delta R.T. -0.012 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

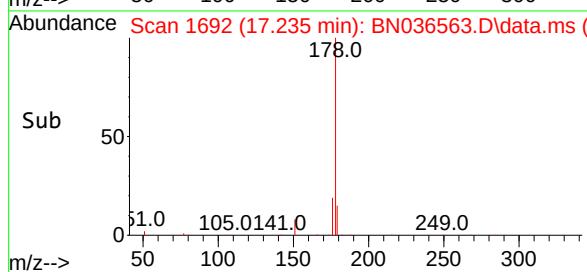
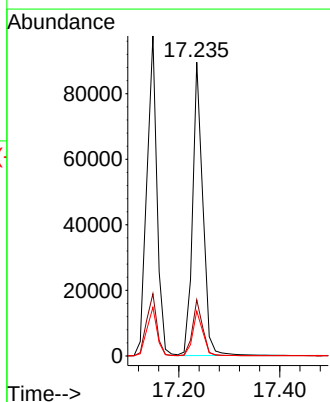
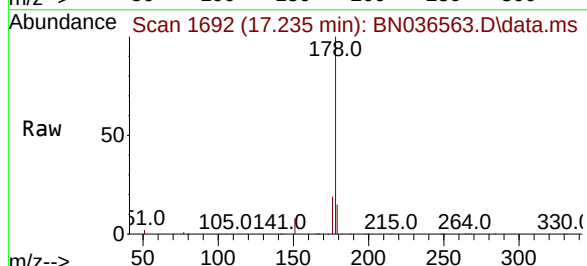
Tgt Ion:178 Resp: 125954

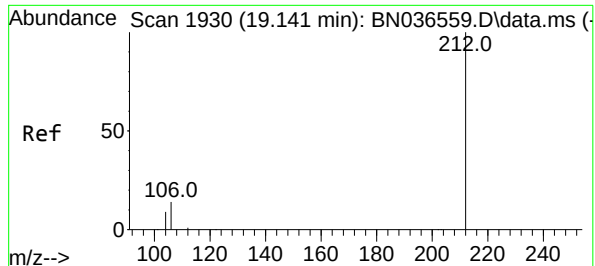
Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

179 15.2 12.6 18.8





#27

Fluoranthene-d10

Concen: 4.879 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

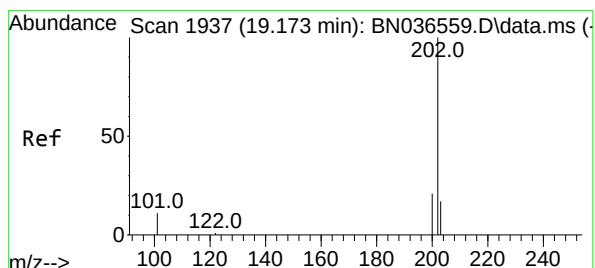
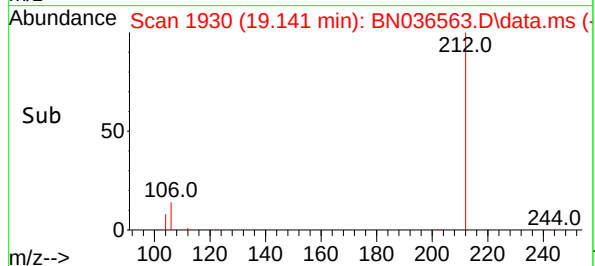
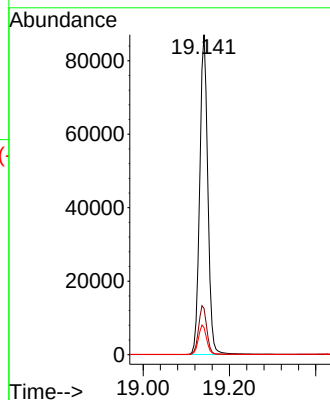
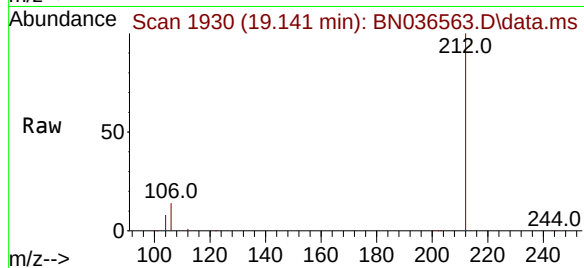
Tgt Ion:212 Resp: 113317

Ion Ratio Lower Upper

212 100

106 15.5 11.8 17.6

104 9.2 7.3 10.9



#28

Fluoranthene

Concen: 4.883 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

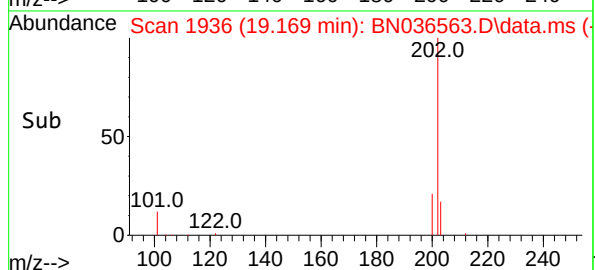
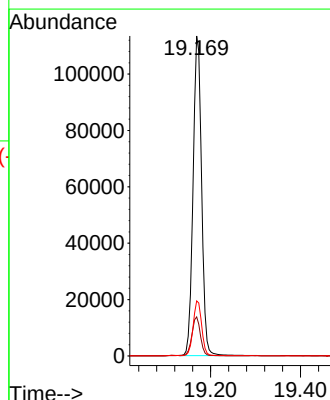
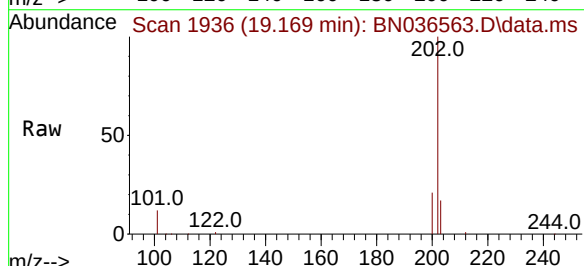
Tgt Ion:202 Resp: 149107

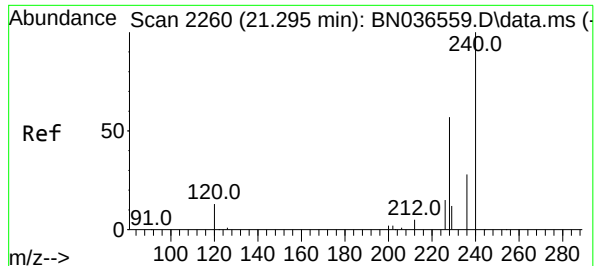
Ion Ratio Lower Upper

202 100

101 12.3 9.4 14.0

203 17.3 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

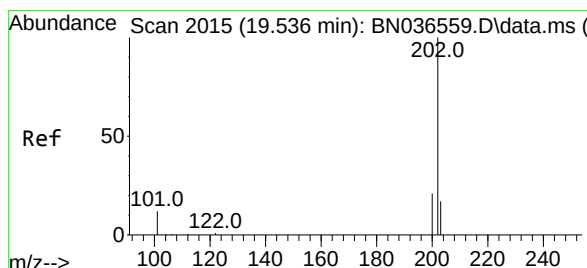
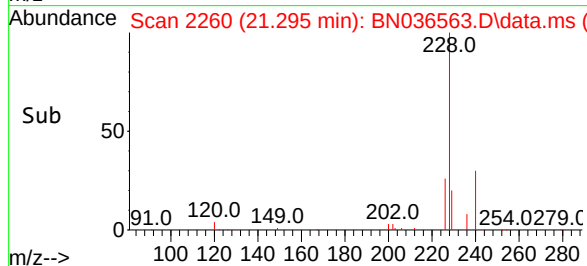
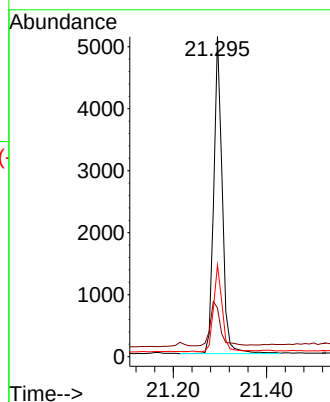
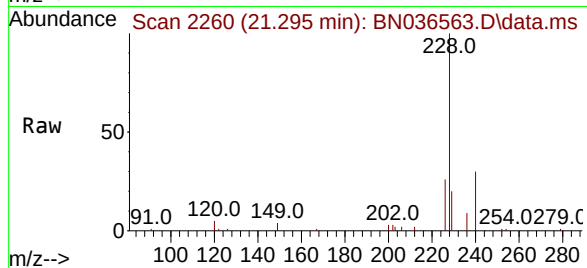
Tgt Ion:240 Resp: 6472

Ion Ratio Lower Upper

240 100

120 15.2 14.6 22.0

236 28.7 24.1 36.1



#30

Pyrene

Concen: 4.695 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

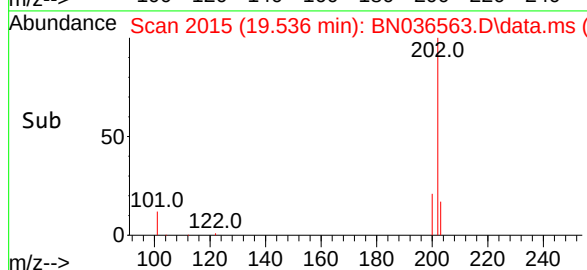
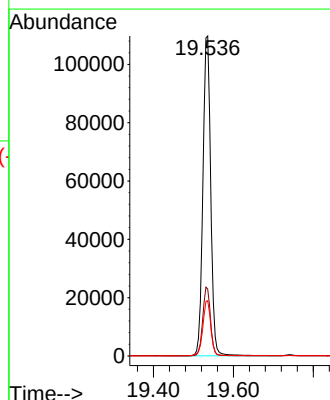
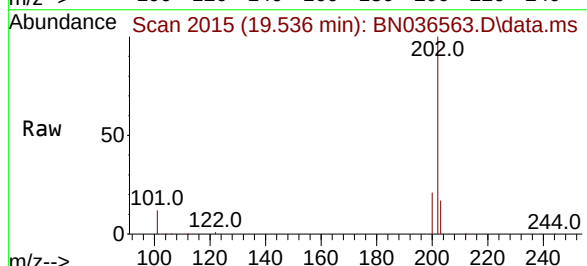
Tgt Ion:202 Resp: 148584

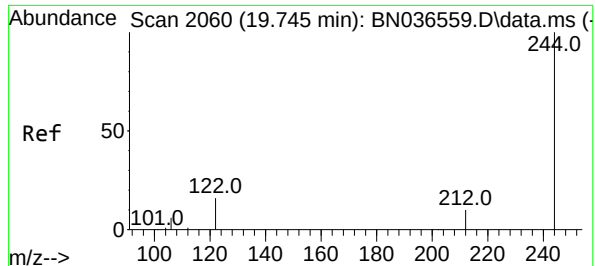
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.7 14.1 21.1

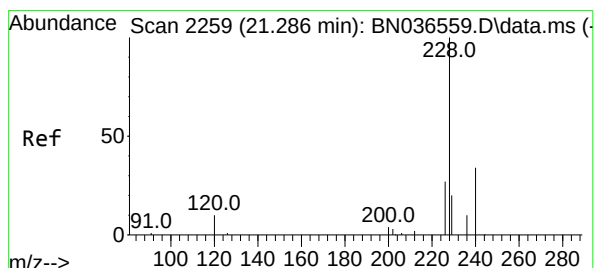
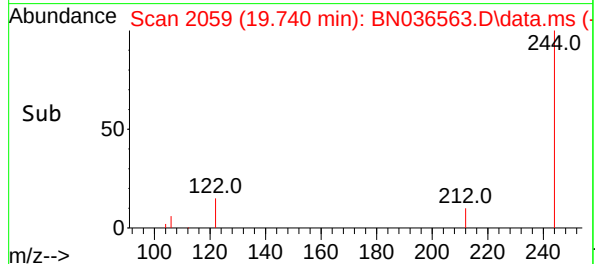
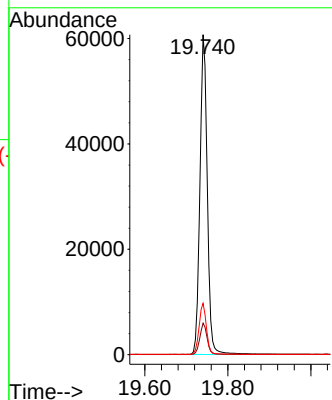
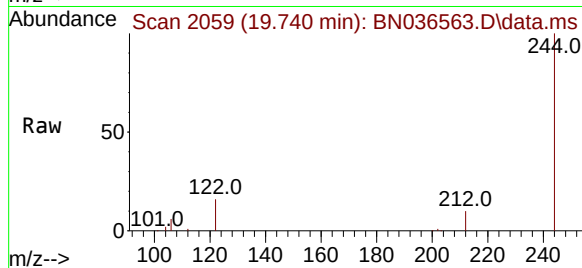




#31
Terphenyl-d14
Concen: 4.832 ng
RT: 19.740 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

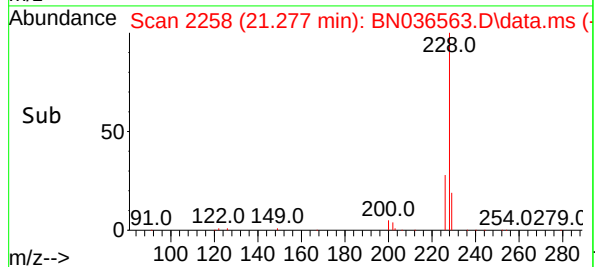
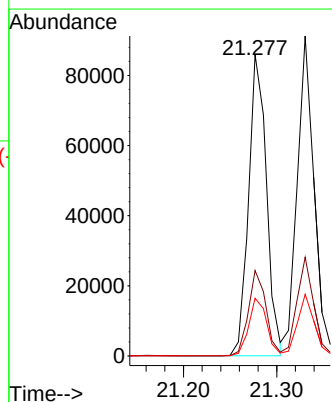
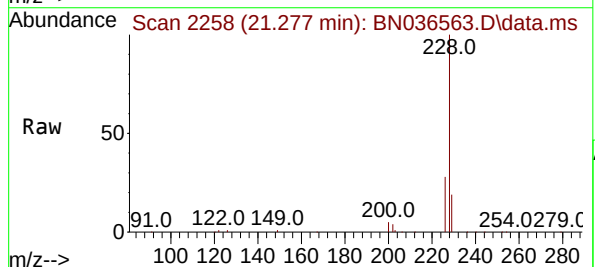
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

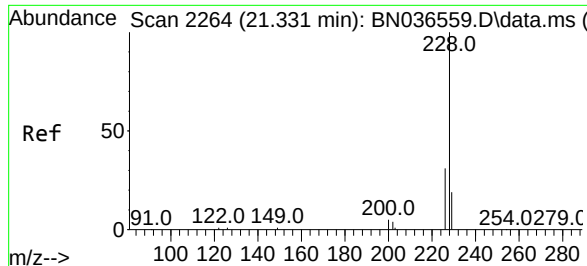
Tgt Ion:244 Resp: 74923
Ion Ratio Lower Upper
244 100
212 9.9 9.6 14.4
122 16.1 13.9 20.9



#32
Benzo(a)anthracene
Concen: 5.087 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.009 min
Lab File: BN036563.D
Acq: 10 Mar 2025 15:19

Tgt Ion:228 Resp: 114481
Ion Ratio Lower Upper
228 100
226 28.3 22.5 33.7
229 19.2 16.6 25.0





#33

Chrysene

Concen: 4.764 ng

RT: 21.331 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

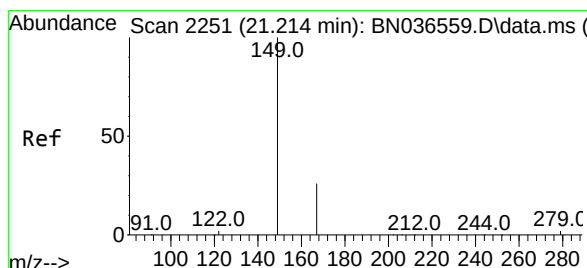
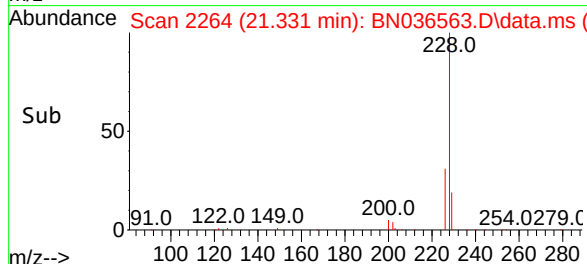
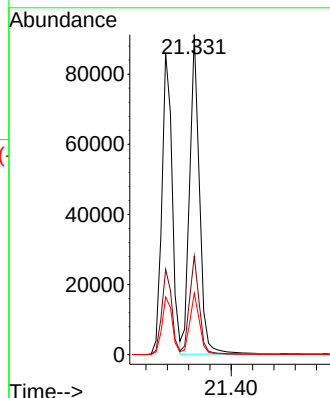
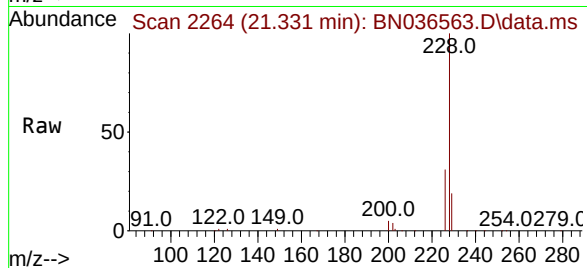
Tgt Ion:228 Resp: 117149

Ion Ratio Lower Upper

228 100

226 30.9 25.3 37.9

229 19.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 4.390 ng

RT: 21.214 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

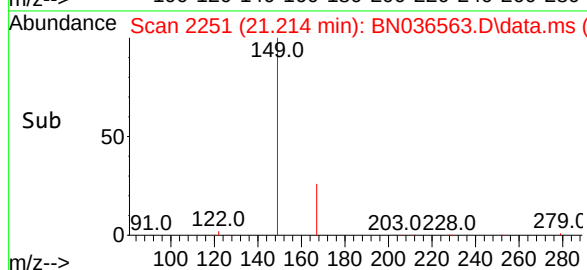
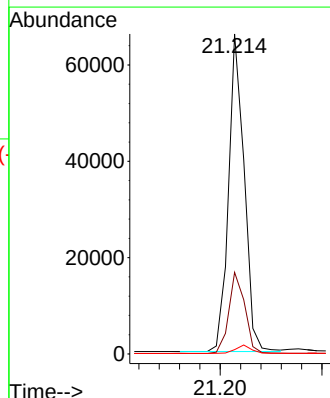
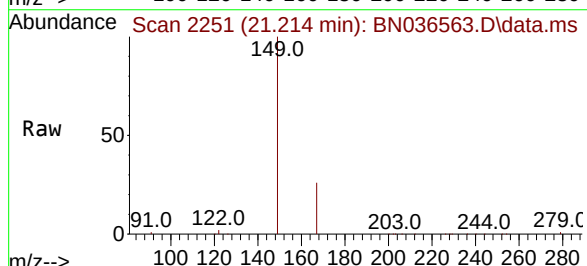
Tgt Ion:149 Resp: 70345

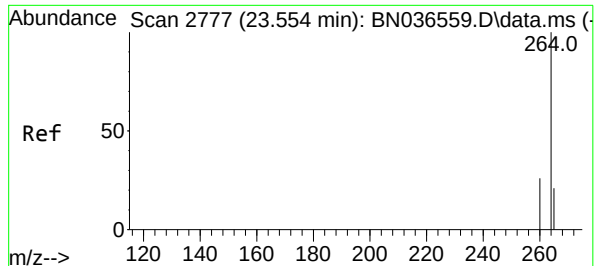
Ion Ratio Lower Upper

149 100

167 26.2 20.7 31.1

279 2.6 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.551 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

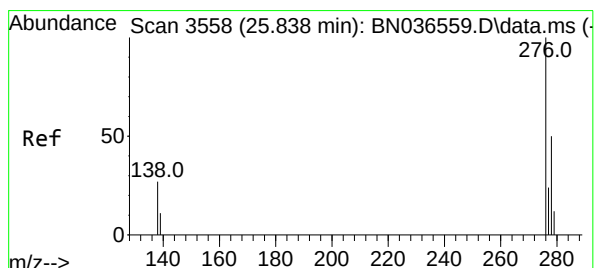
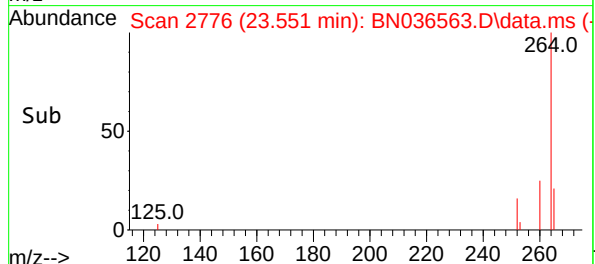
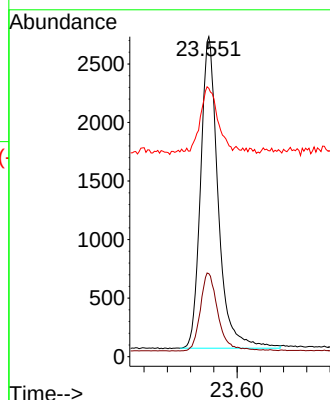
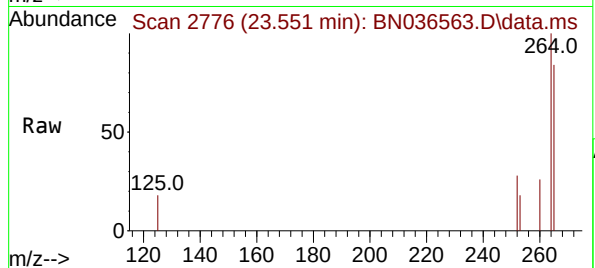
Tgt Ion:264 Resp: 5580

Ion Ratio Lower Upper

264 100

260 25.9 22.6 33.8

265 83.8 88.1 132.1#



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.440 ng

RT: 25.835 min Scan# 3557

Delta R.T. -0.003 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

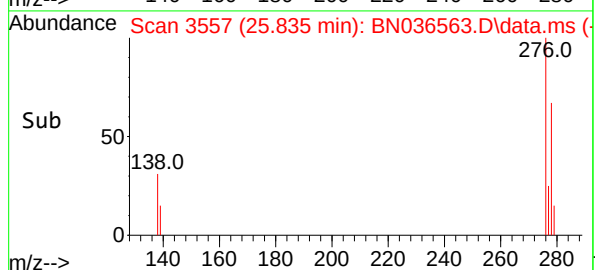
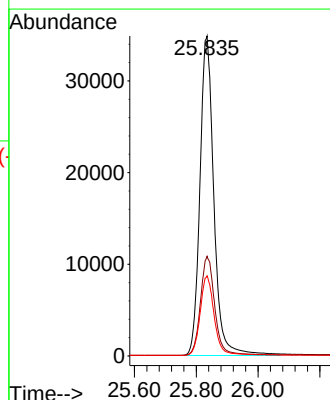
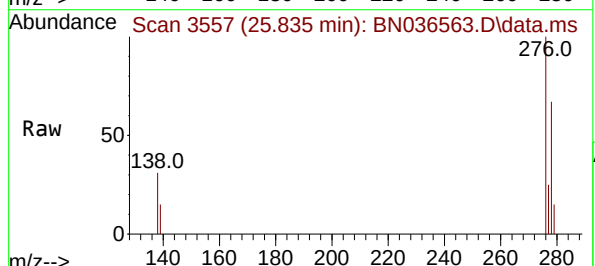
Tgt Ion:276 Resp: 109561

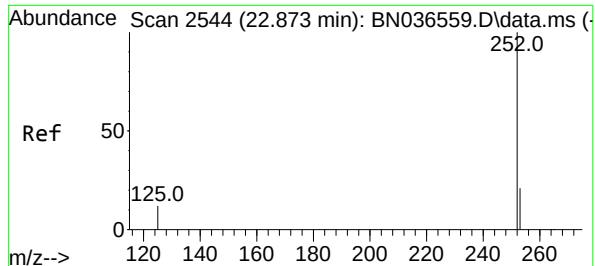
Ion Ratio Lower Upper

276 100

138 31.6 23.4 35.2

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 5.146 ng

RT: 22.873 min Scan# 2544

Delta R.T. -0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

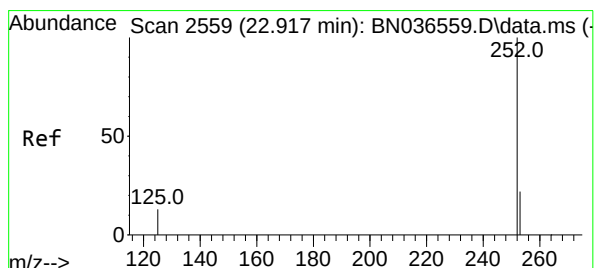
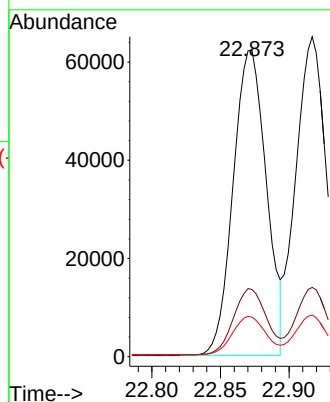
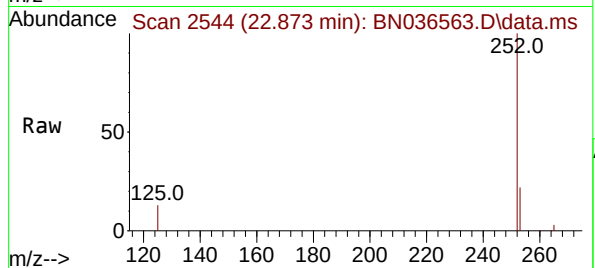
Tgt Ion:252 Resp: 104498

Ion Ratio Lower Upper

252 100

253 21.9 23.9 35.9#

125 12.9 17.4 26.2#



#38

Benzo(k)fluoranthene

Concen: 5.022 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

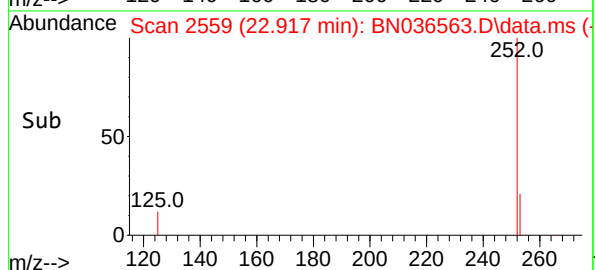
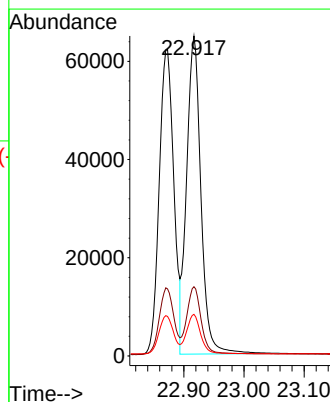
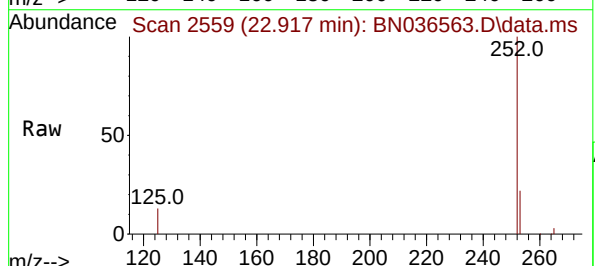
Tgt Ion:252 Resp: 106995

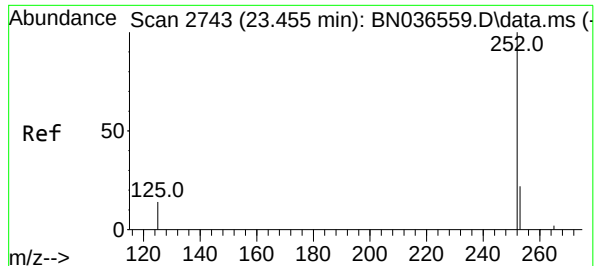
Ion Ratio Lower Upper

252 100

253 21.6 24.6 36.8#

125 13.0 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 5.170 ng

RT: 23.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

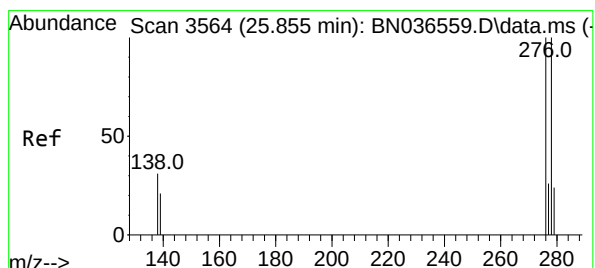
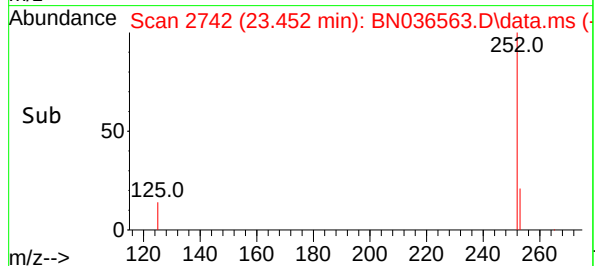
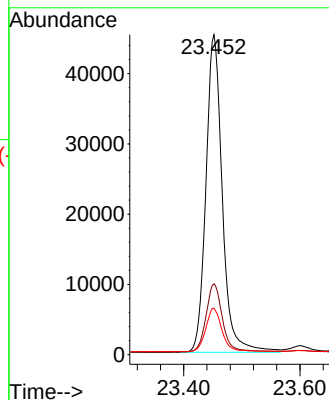
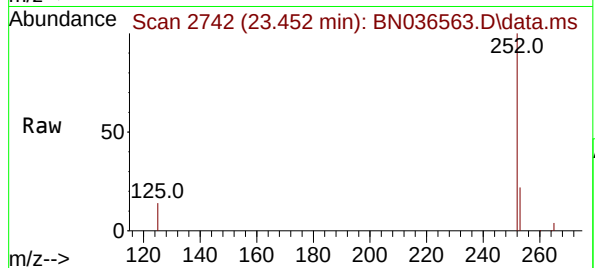
Tgt Ion:252 Resp: 88413

Ion Ratio Lower Upper

252 100

253 22.2 27.8 41.8#

125 14.5 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 5.568 ng

RT: 25.846 min Scan# 3561

Delta R.T. -0.009 min

Lab File: BN036563.D

Acq: 10 Mar 2025 15:19

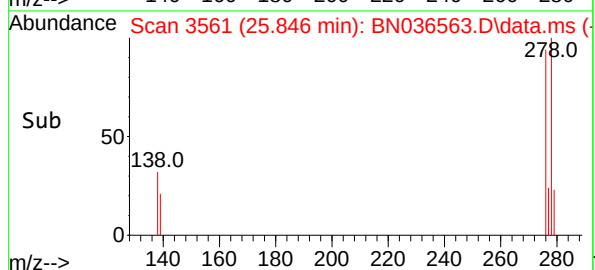
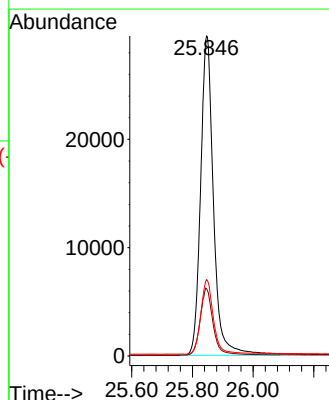
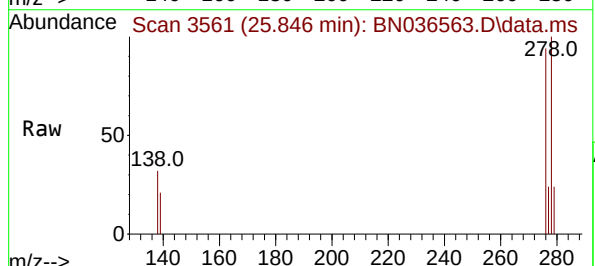
Tgt Ion:278 Resp: 87308

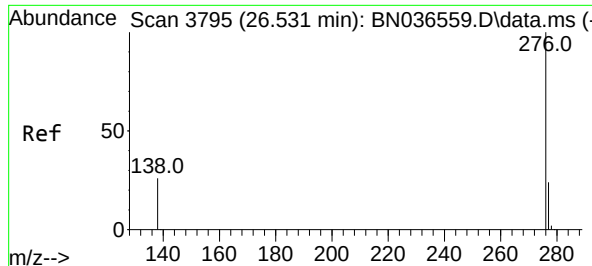
Ion Ratio Lower Upper

278 100

139 21.0 20.8 31.2

279 23.9 28.8 43.2#





#41

Benzo(g,h,i)perylene

Concen: 5.189 ng

RT: 26.531 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN036563.D

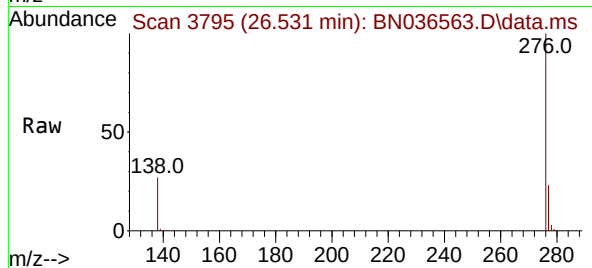
Acq: 10 Mar 2025 15:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



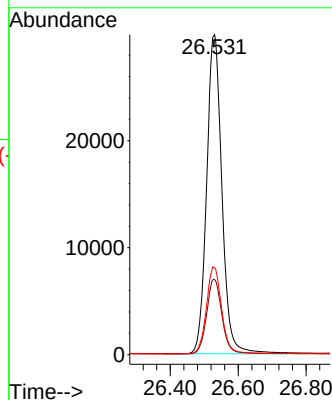
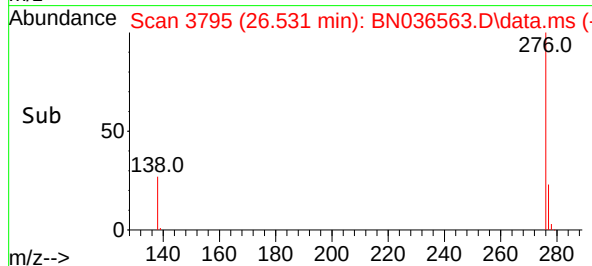
Tgt Ion:276 Resp: 93067

Ion Ratio Lower Upper

276 100

277 23.4 22.2 33.4

138 27.1 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036564.D
 Acq On : 10 Mar 2025 16:38
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN031025

Quant Time: Mar 10 17:10:04 2025
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

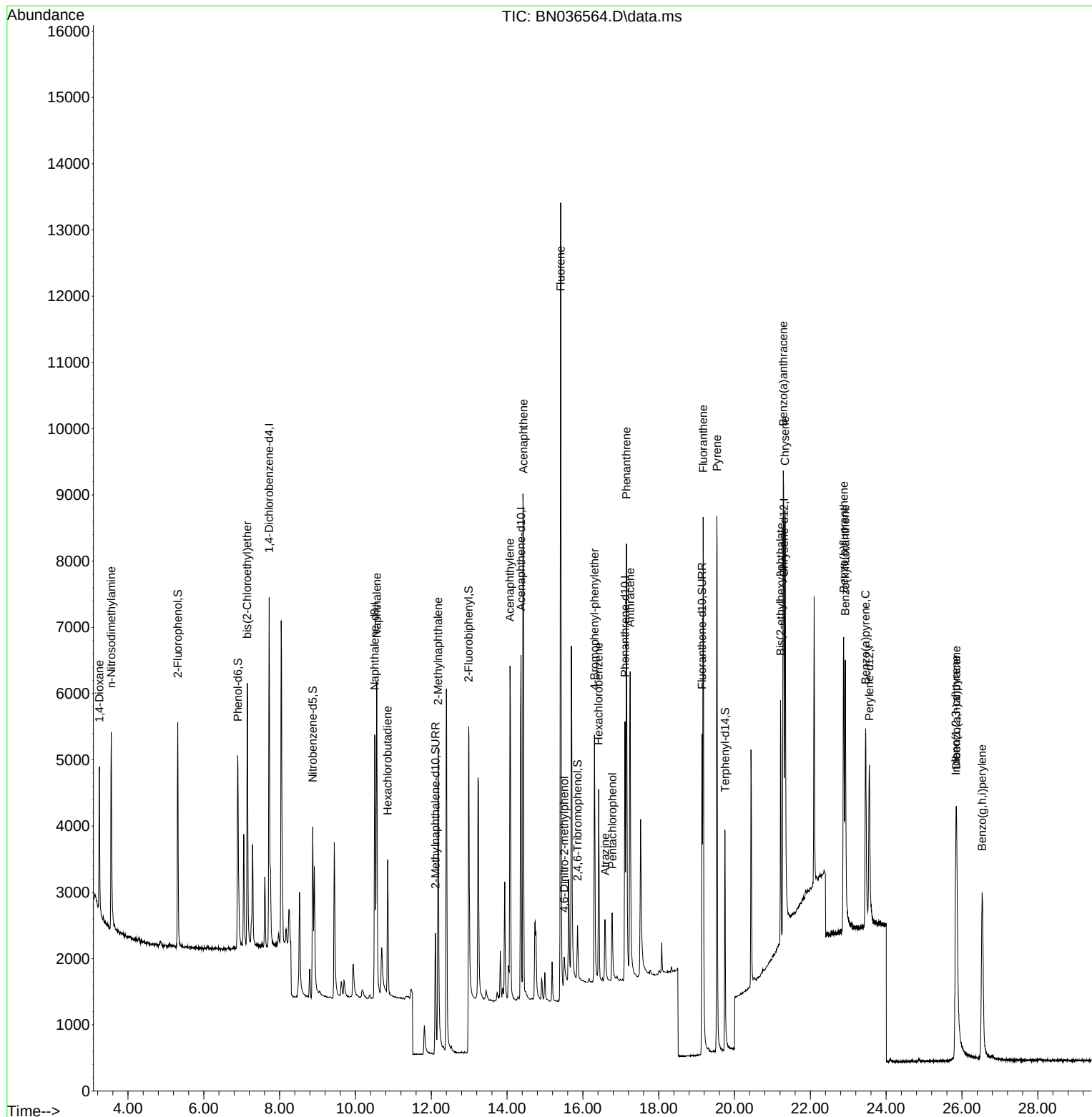
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2488	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5634	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3085	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5778	0.400	ng	0.00
29) Chrysene-d12	21.304	240	4219	0.400	ng	0.00
35) Perylene-d12	23.554	264	3835	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	2418	0.417	ng	0.00
5) Phenol-d6	6.901	99	2744	0.383	ng	0.00
8) Nitrobenzene-d5	8.875	82	2356	0.384	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3345	0.399	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	511	0.365	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	7753	0.432	ng	0.00
27) Fluoranthene-d10	19.141	212	6152	0.415	ng	0.00
31) Terphenyl-d14	19.750	244	3880	0.384	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	1297	0.470	ng	97
3) n-Nitrosodimethylamine	3.557	42	2284	0.409	ng	96
6) bis(2-Chloroethyl)ether	7.147	93	2945	0.398	ng	100
9) Naphthalene	10.562	128	6710	0.405	ng	99
10) Hexachlorobutadiene	10.850	225	1694	0.434	ng	# 98
12) 2-Methylnaphthalene	12.182	142	4064	0.385	ng	99
16) Acenaphthylene	14.077	152	6059	0.416	ng	99
17) Acenaphthene	14.430	154	4035	0.423	ng	99
18) Fluorene	15.414	166	5226	0.405	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	404	0.420	ng	94
21) 4-Bromophenyl-phenylether	16.304	248	1524	0.421	ng	96
22) Hexachlorobenzene	16.416	284	1987	0.455	ng	99
23) Atrazine	16.590	200	1165	0.401	ng	95
24) Pentachlorophenol	16.776	266	699	0.351	ng	95
25) Phenanthrene	17.148	178	7229	0.417	ng	99
26) Anthracene	17.248	178	6358	0.407	ng	99
28) Fluoranthene	19.174	202	8068	0.414	ng	100
30) Pyrene	19.536	202	8156	0.395	ng	100
32) Benzo(a)anthracene	21.286	228	5814	0.396	ng	100
33) Chrysene	21.331	228	6940	0.433	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	3594	0.344	ng	98
36) Indeno(1,2,3-cd)pyrene	25.841	276	6410	0.463	ng	98
37) Benzo(b)fluoranthene	22.879	252	5902	0.423	ng	99
38) Benzo(k)fluoranthene	22.923	252	6286	0.429	ng	98
39) Benzo(a)pyrene	23.458	252	5147	0.438	ng	99
40) Dibenzo(a,h)anthracene	25.855	278	4740	0.440	ng	97
41) Benzo(g,h,i)perylene	26.534	276	5877	0.477	ng	97

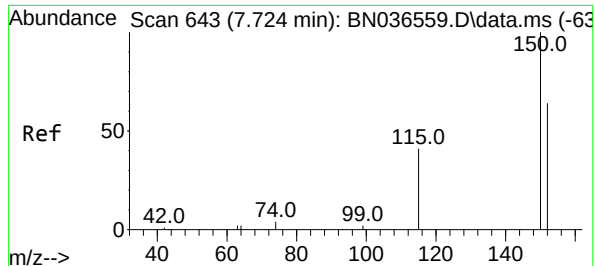
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

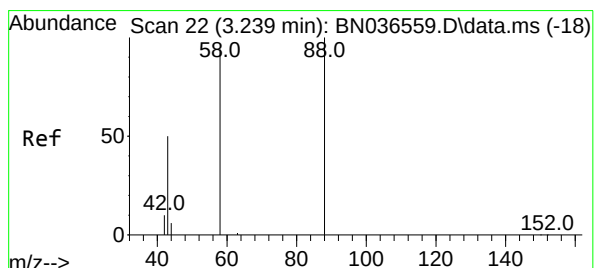
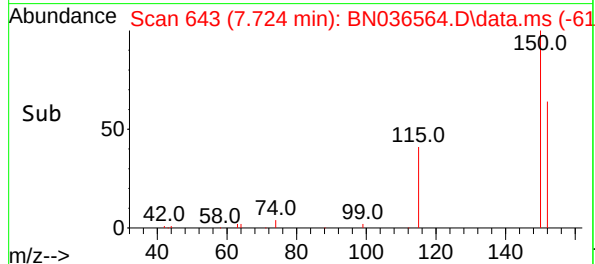
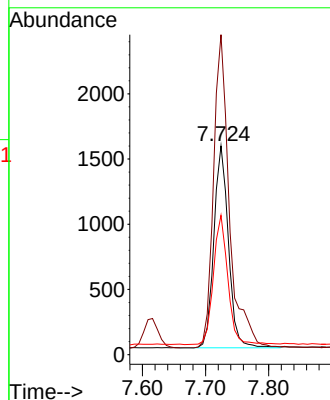
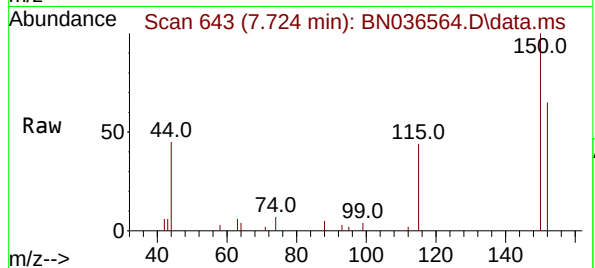




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

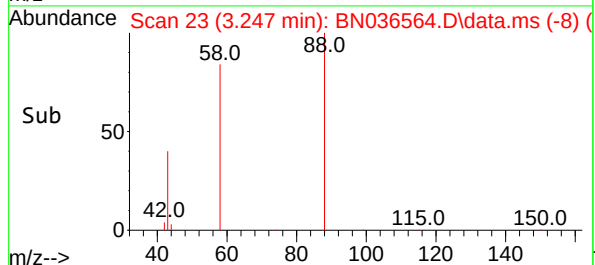
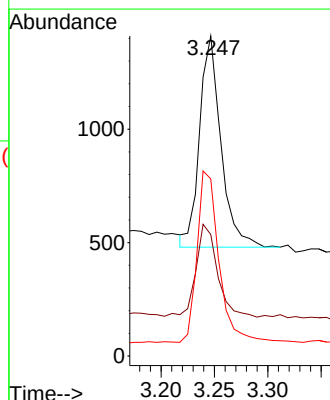
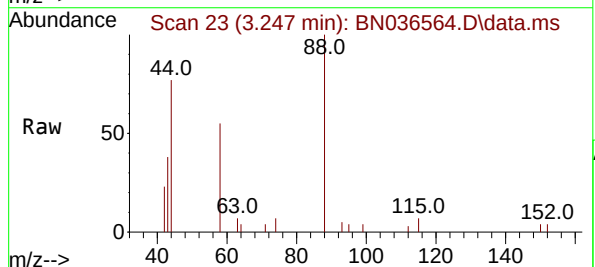
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

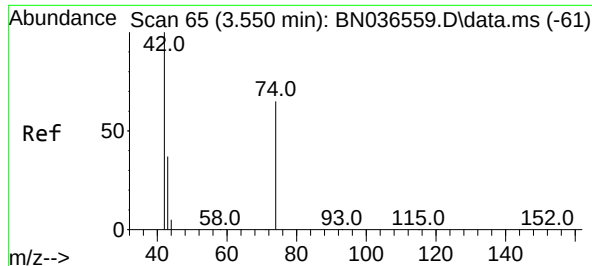
Tgt Ion:152 Resp: 2488
Ion Ratio Lower Upper
152 100
150 153.3 123.7 185.5
115 66.7 54.3 81.5



#2
1,4-Dioxane
Concen: 0.470 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.008 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 88 Resp: 1297
Ion Ratio Lower Upper
88 100
43 44.1 37.8 56.8
58 82.4 67.4 101.2

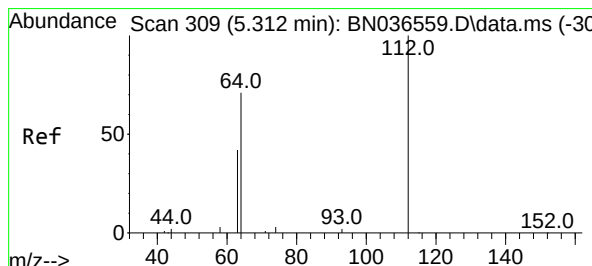
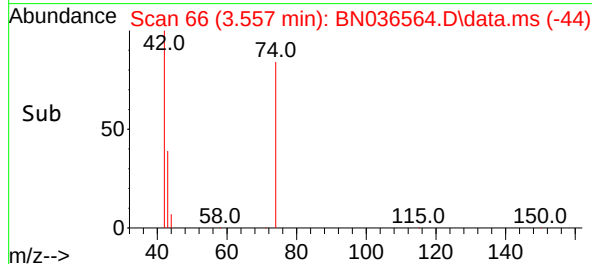
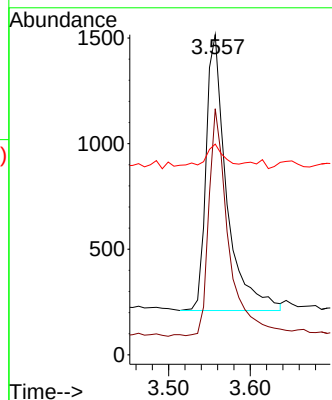
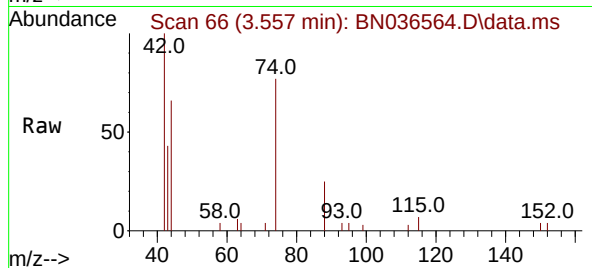




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

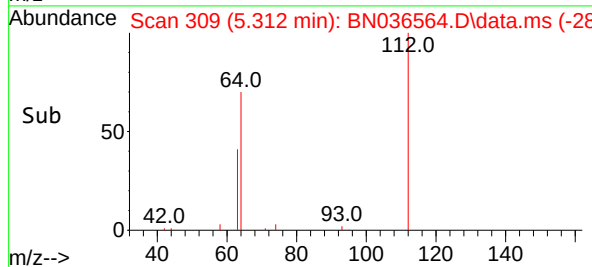
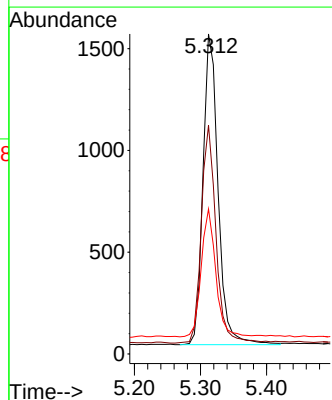
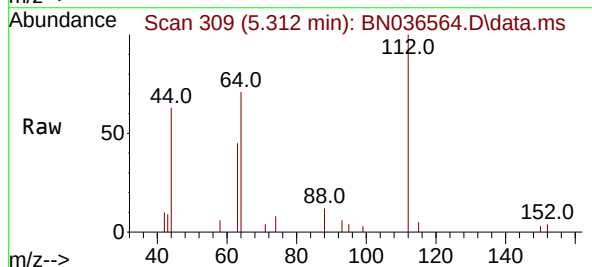
Instrument :
BNA_N
ClientSampleId :
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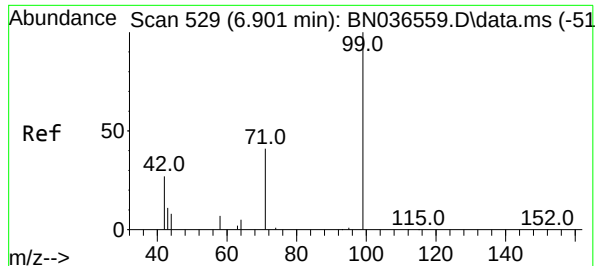
Tgt Ion: 42 Resp: 2284
Ion Ratio Lower Upper
42 100
74 79.2 60.6 90.8
44 8.2 6.3 9.5



#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 112 Resp: 2418
Ion Ratio Lower Upper
112 100
64 68.2 53.1 79.7
63 39.8 31.8 47.8

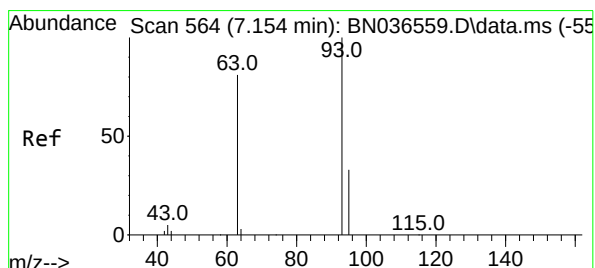
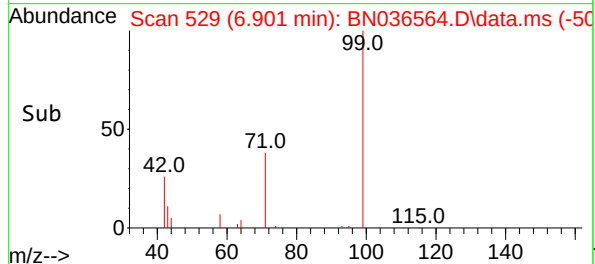
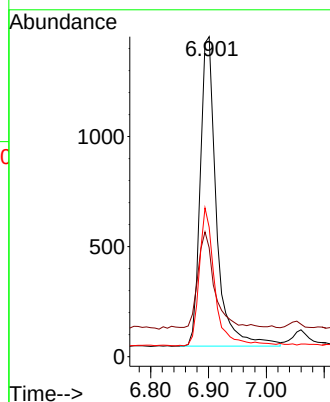
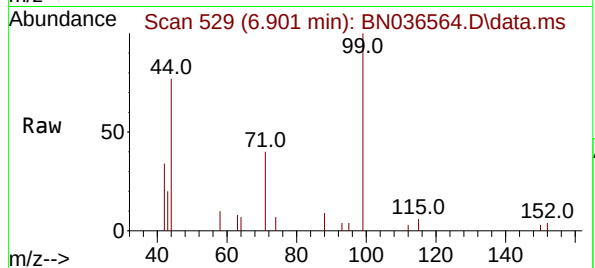




#5
Phenol-d6
Concen: 0.383 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

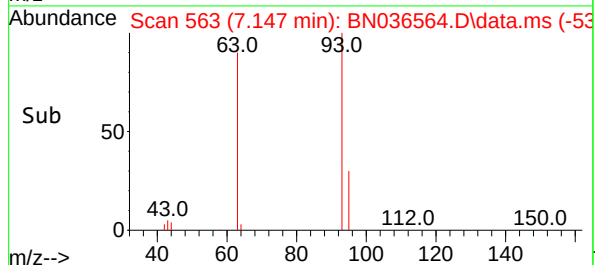
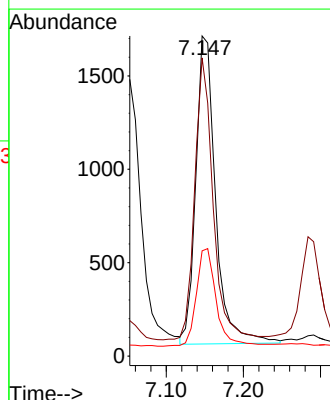
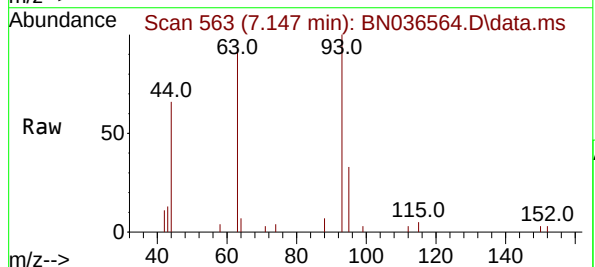
Instrument :
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ClientSampleId :
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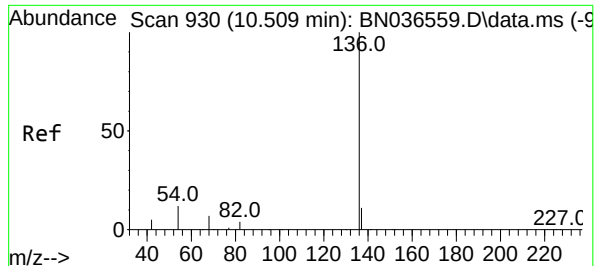
Tgt Ion: 99 Resp: 2744
Ion Ratio Lower Upper
99 100
42 32.1 26.5 39.7
71 42.9 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.398 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.007 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion: 93 Resp: 2945
Ion Ratio Lower Upper
93 100
63 85.1 67.7 101.5
95 31.7 25.6 38.4

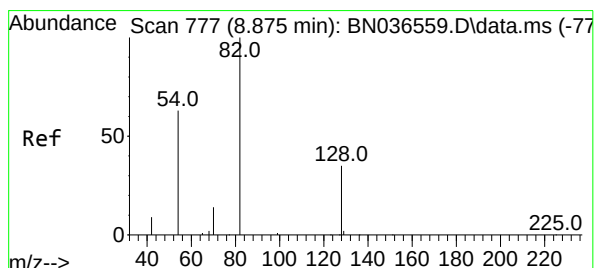
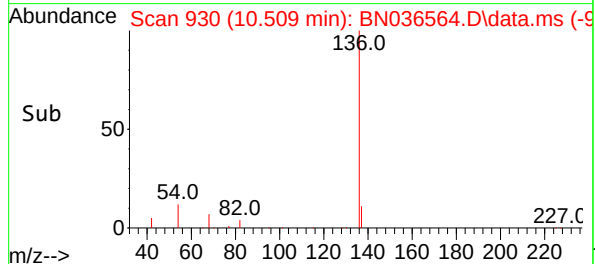
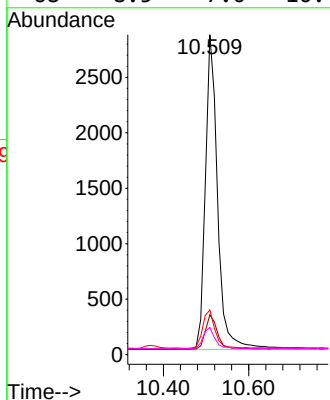
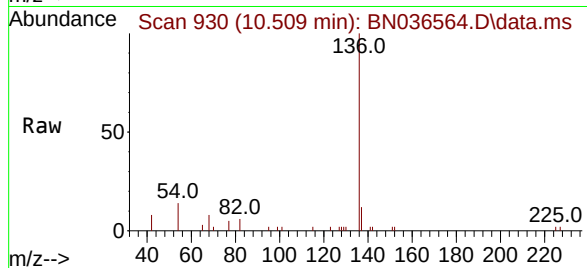




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

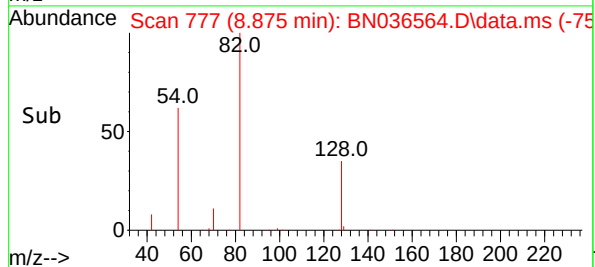
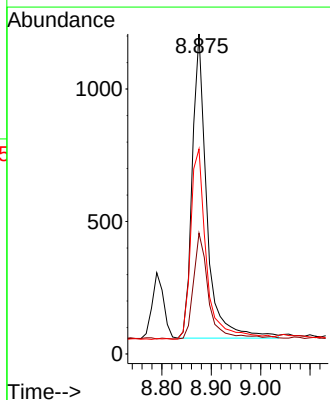
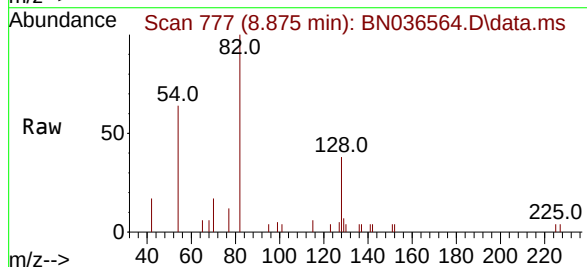
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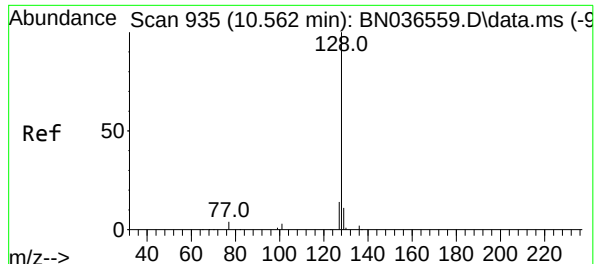
Tgt Ion:	136	Resp:	5634
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	13.9	11.5	17.3
68	8.5	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.384 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:	82	Resp:	2356
Ion	Ratio	Lower	Upper
82	100		
128	37.7	30.6	45.8
54	64.1	52.2	78.4

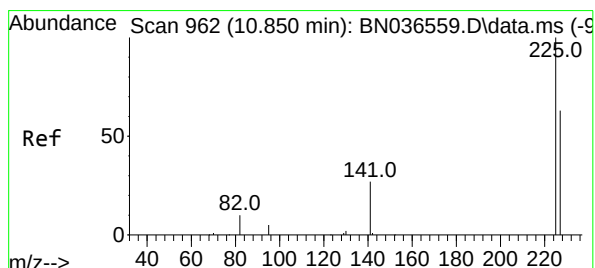
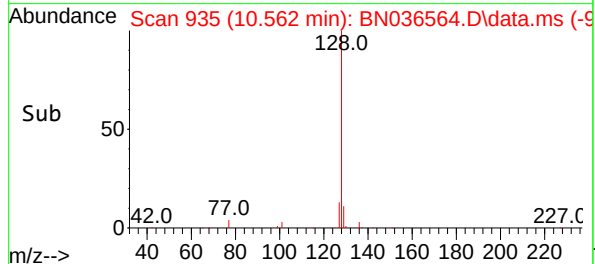
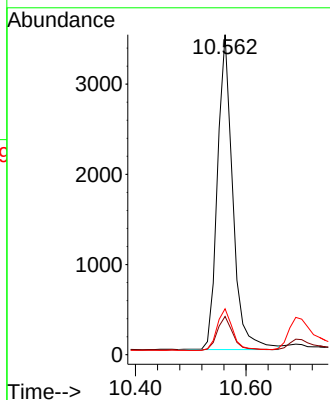
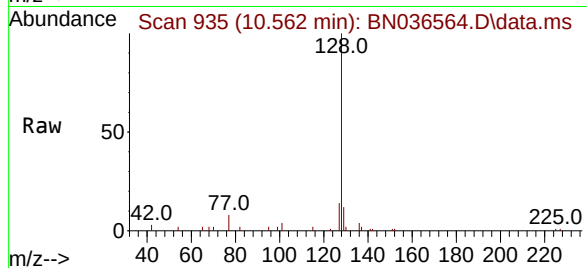




#9
Naphthalene
Concen: 0.405 ng
RT: 10.562 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

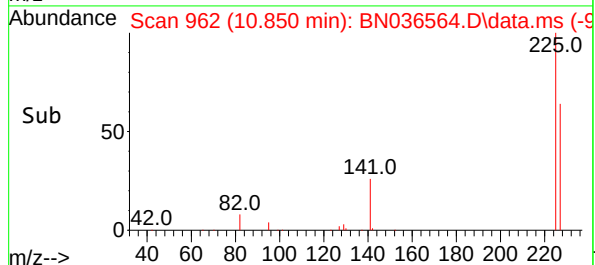
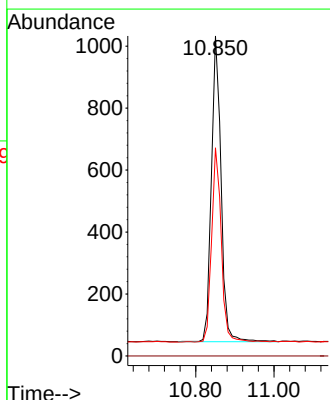
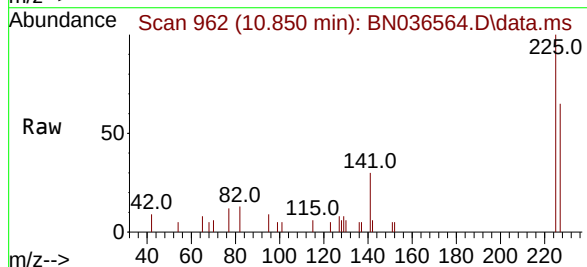
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

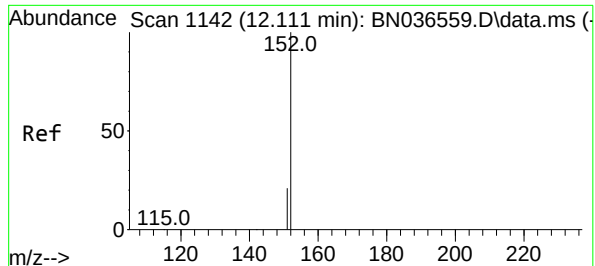
Tgt Ion	128	129	127
Resp:	6710		
Ion Ratio	100	11.9	14.3
Lower		9.8	11.8
Upper		14.6	17.8



#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	225	223	227
Resp:	1694		
Ion Ratio	100	0.0	63.5
Lower		0.0	51.8
Upper		0.0	77.8

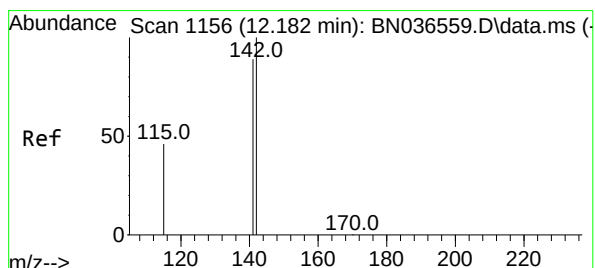
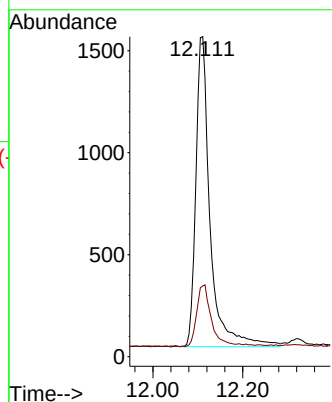
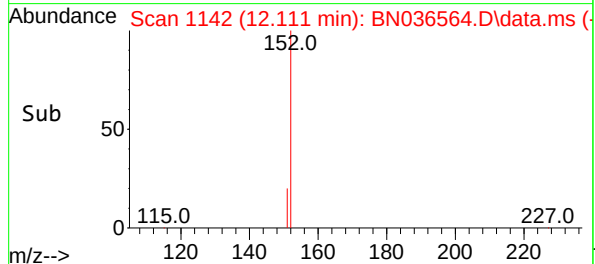
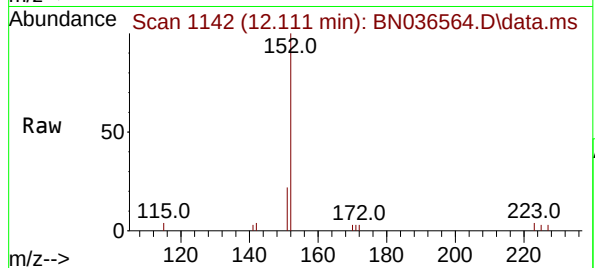




#11
2-Methylnaphthalene-d10
Concen: 0.399 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

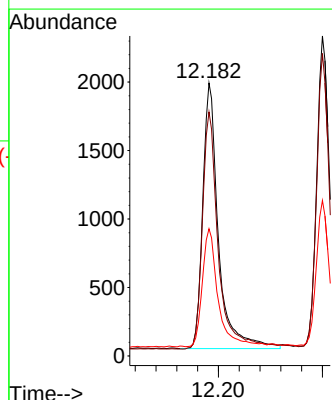
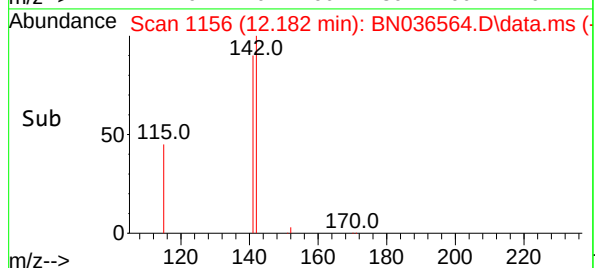
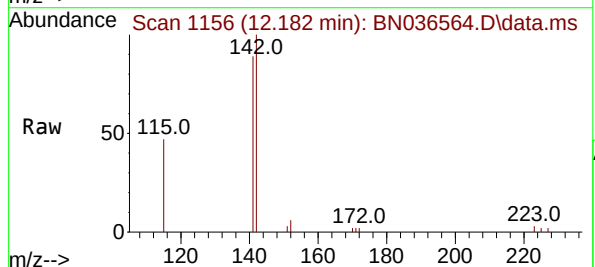
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BNA_N
ClientSampleId :
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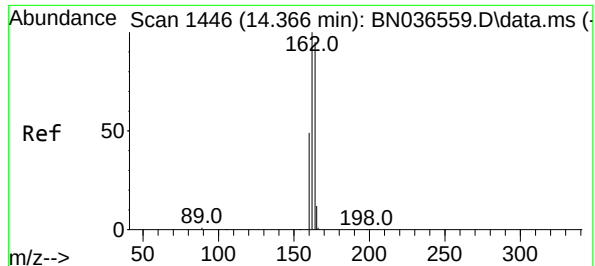
Tgt Ion:152 Resp: 3345
Ion Ratio Lower Upper
152 100
151 20.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion:142 Resp: 4064
Ion Ratio Lower Upper
142 100
141 89.4 71.7 107.5
115 46.6 38.3 57.5

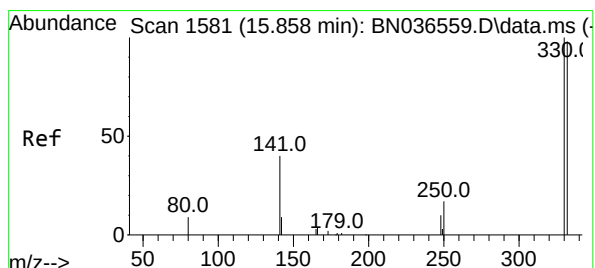
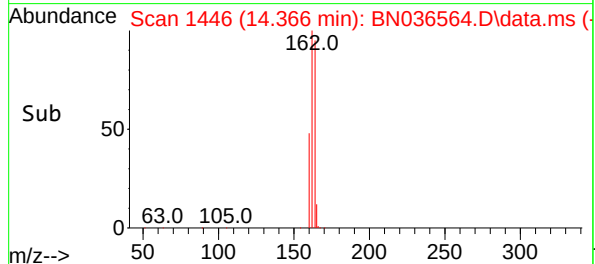
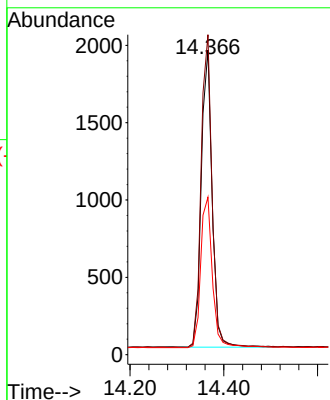
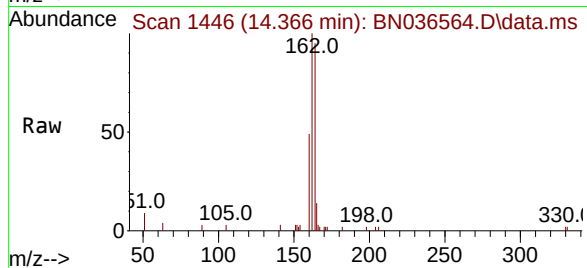




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

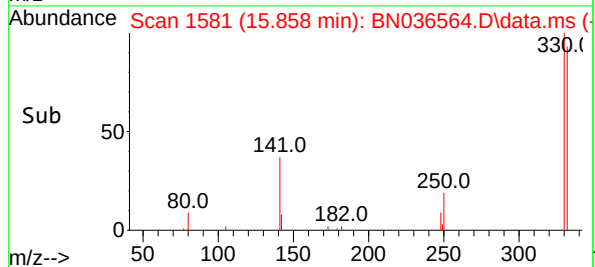
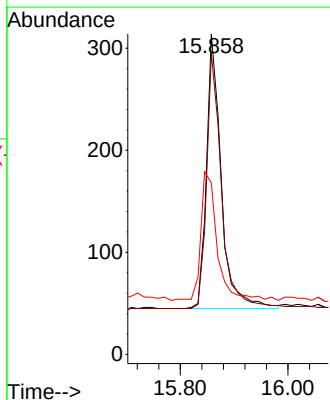
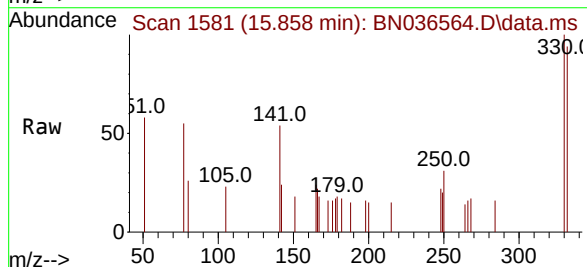
Instrument :
BNA_N
ClientSampleId :
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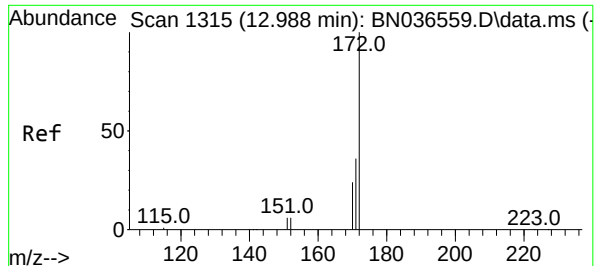
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.0	84.2	126.2
160	51.7	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.9	75.2	112.8
141	51.5	43.4	65.2





#15

2-Fluorobiphenyl

Concen: 0.432 ng

RT: 12.988 min Scan# 1315

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

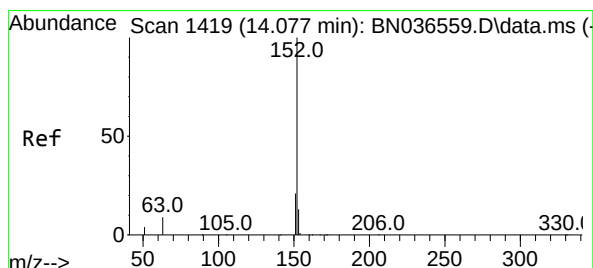
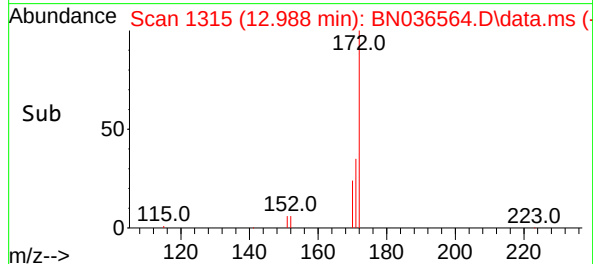
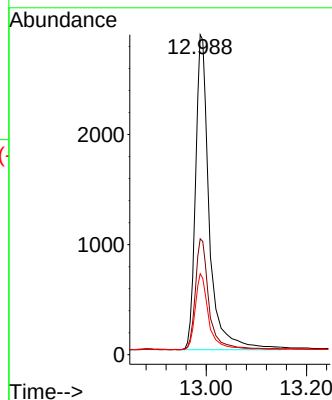
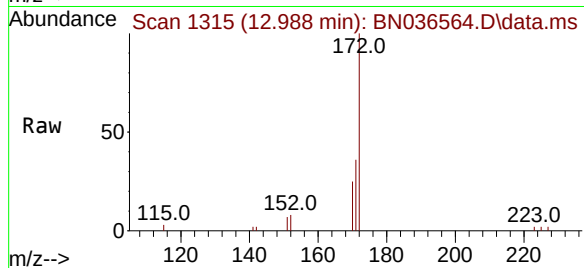
Tgt Ion:172 Resp: 7753

Ion Ratio Lower Upper

172 100

171 36.2 29.5 44.3

170 25.3 20.2 30.4



#16

Acenaphthylene

Concen: 0.416 ng

RT: 14.077 min Scan# 1419

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

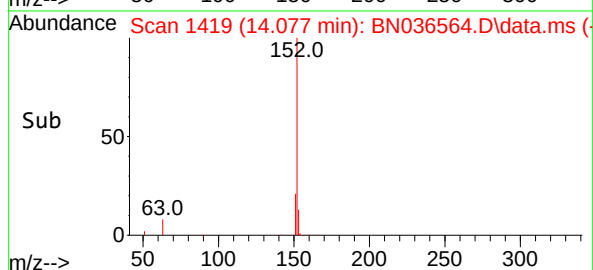
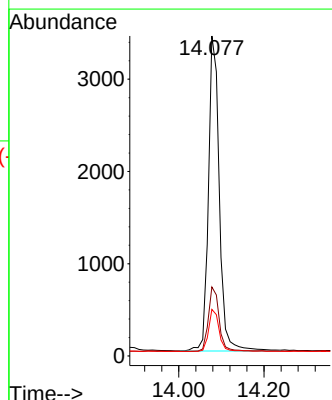
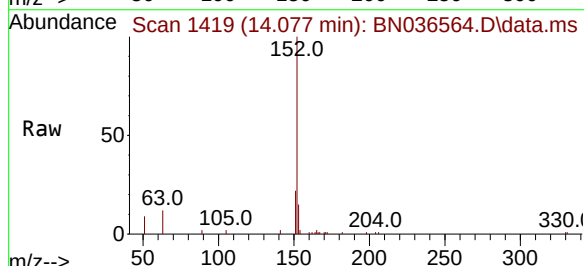
Tgt Ion:152 Resp: 6059

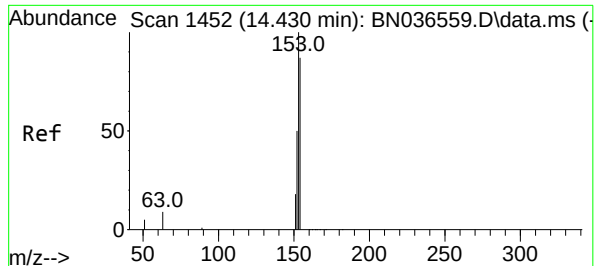
Ion Ratio Lower Upper

152 100

151 20.1 16.2 24.4

153 12.9 10.6 15.8





#17

Acenaphthene

Concen: 0.423 ng

RT: 14.430 min Scan# 1452

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

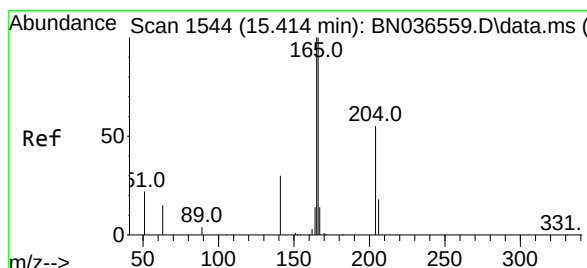
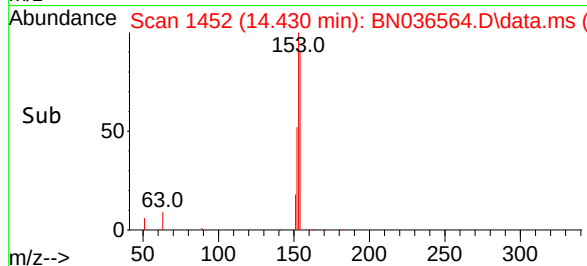
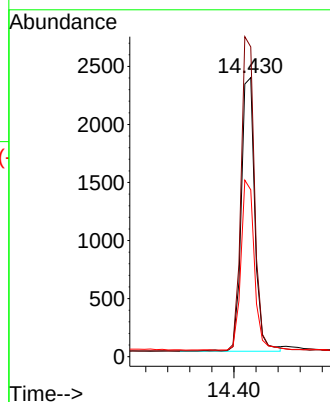
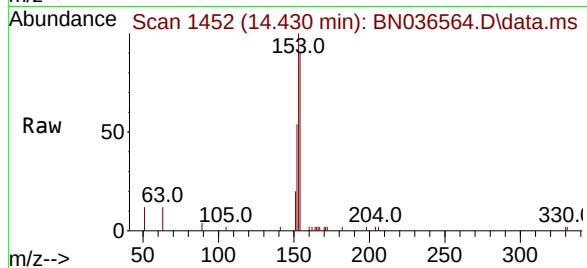
Tgt Ion:154 Resp: 4035

Ion Ratio Lower Upper

154 100

153 115.5 94.1 141.1

152 61.9 49.8 74.6



#18

Fluorene

Concen: 0.405 ng

RT: 15.414 min Scan# 1544

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

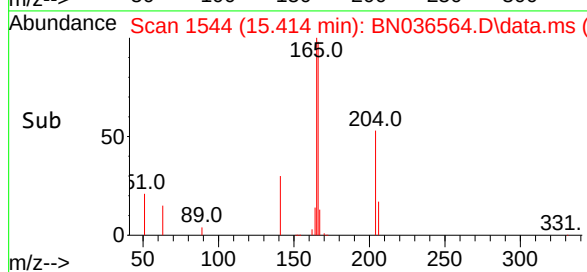
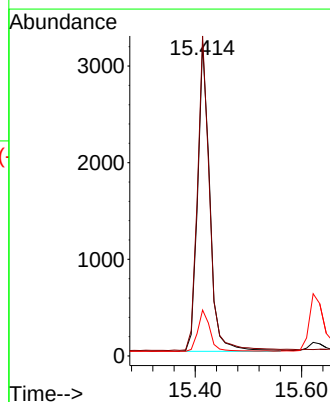
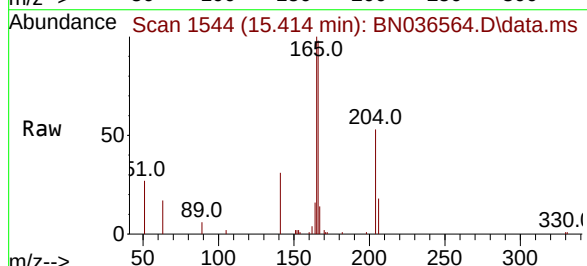
Tgt Ion:166 Resp: 5226

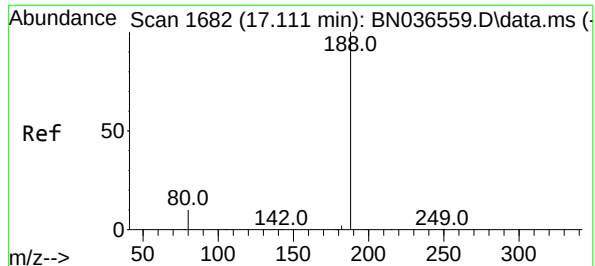
Ion Ratio Lower Upper

166 100

165 101.1 79.8 119.8

167 13.1 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

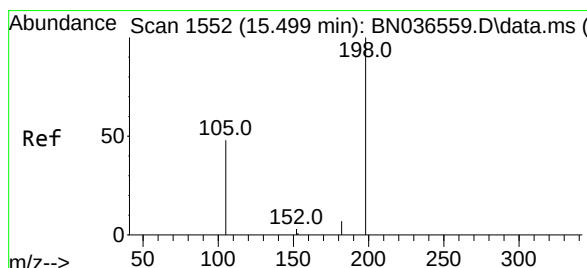
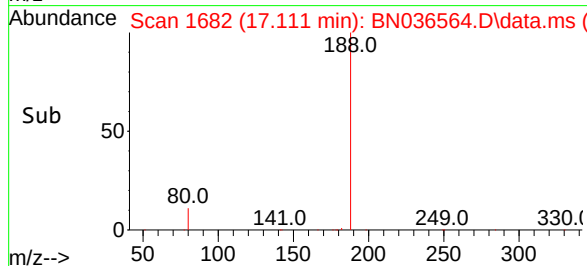
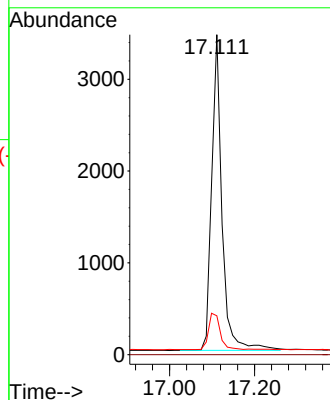
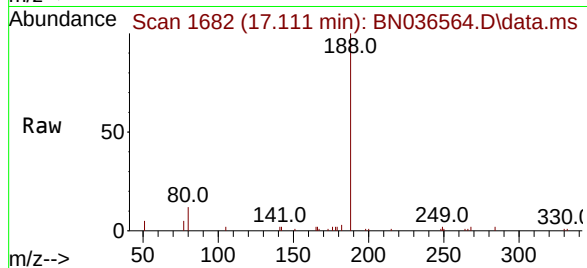
Tgt Ion:188 Resp: 5778

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.2 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.420 ng

RT: 15.510 min Scan# 1553

Delta R.T. 0.011 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

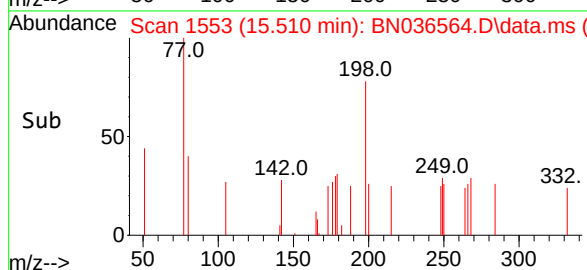
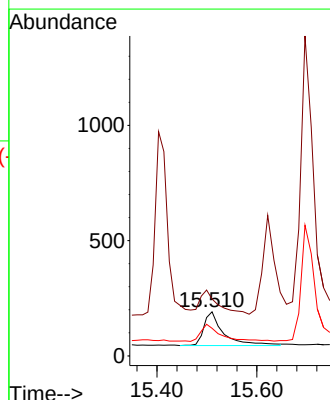
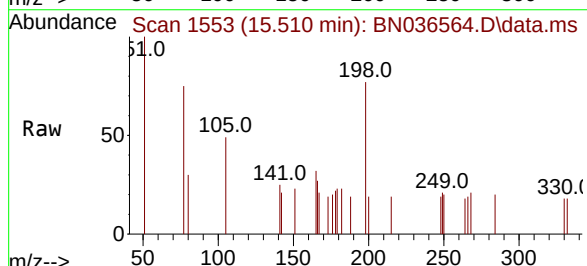
Tgt Ion:198 Resp: 404

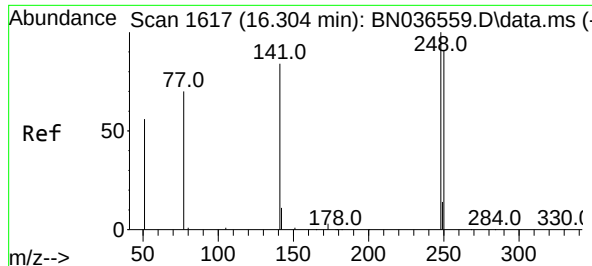
Ion Ratio Lower Upper

198 100

51 129.3 107.9 161.9

105 62.8 56.2 84.2

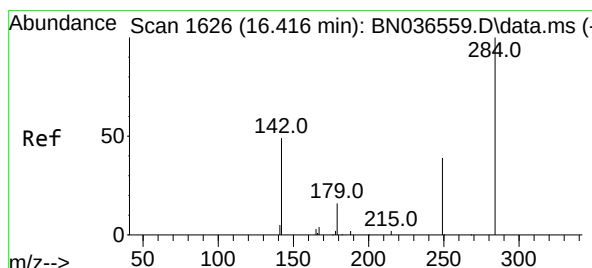
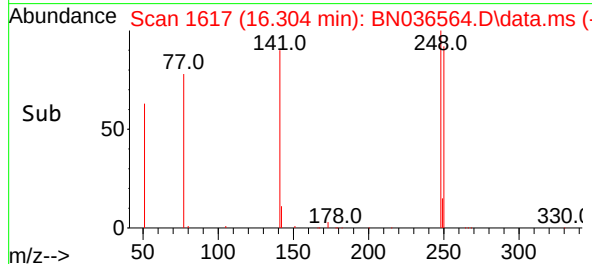
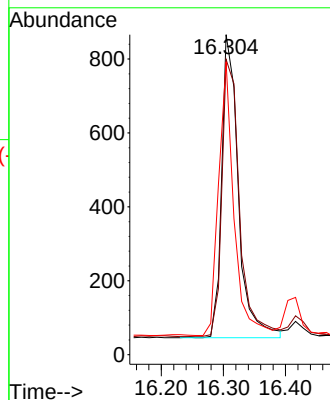
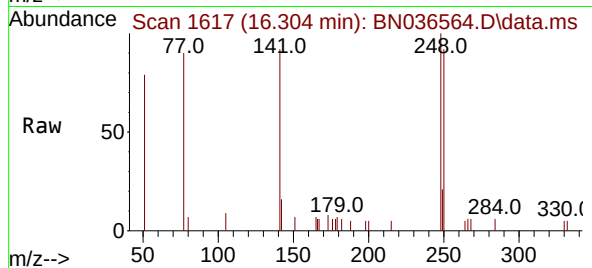




#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

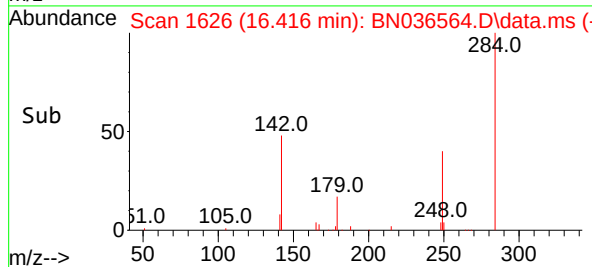
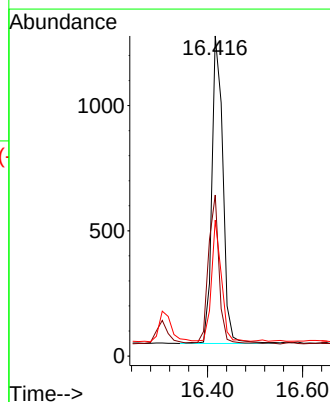
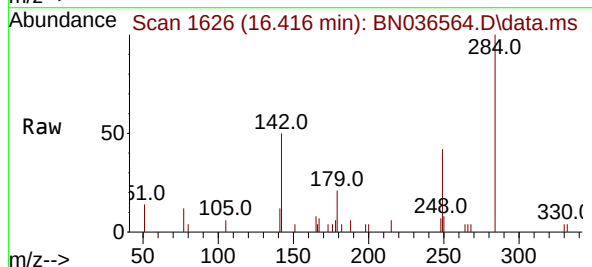
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

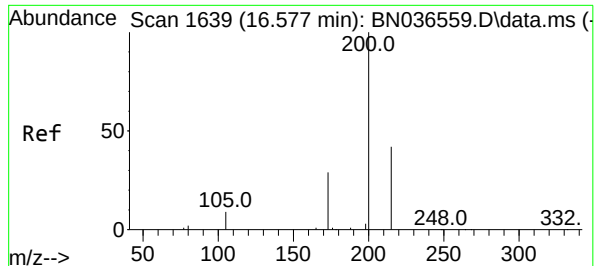
Tgt Ion	Ratio	Lower	Upper
248	100		
250	92.3	73.0	109.6
141	91.6	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	Ratio	Lower	Upper
284	100		
142	47.5	37.0	55.4
249	34.9	28.1	42.1

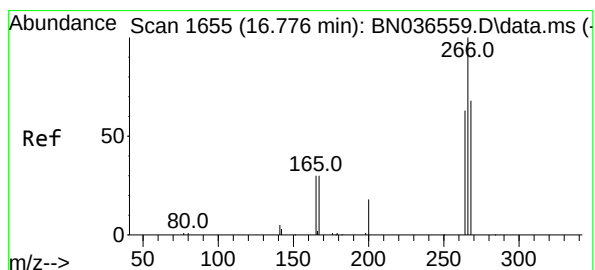
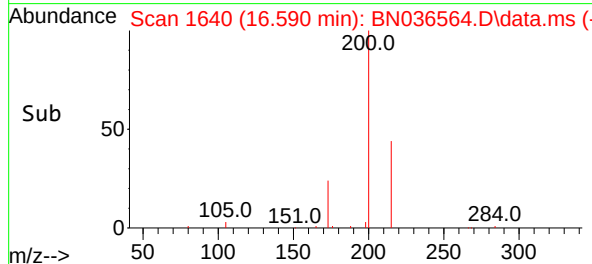
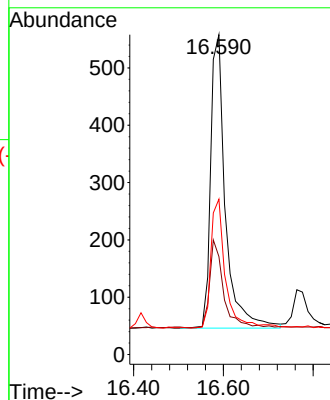
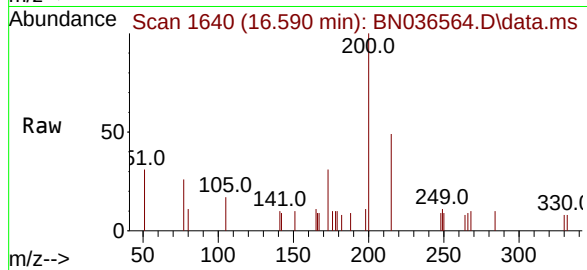




#23
Atrazine
Concen: 0.401 ng
RT: 16.590 min Scan# 1640
Delta R.T. 0.012 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

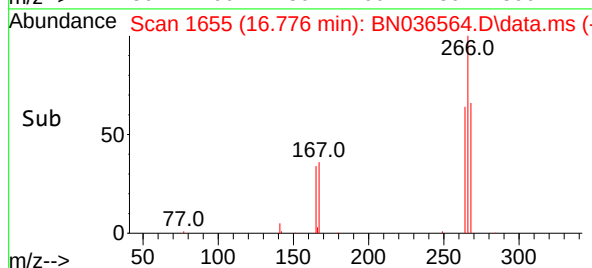
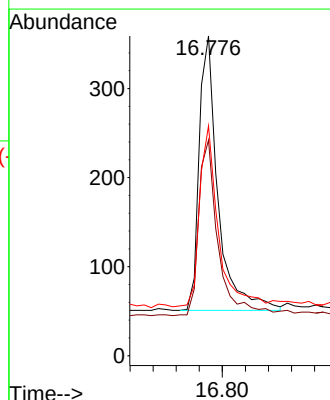
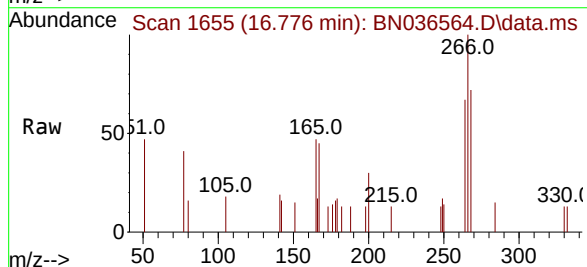
Instrument :
BNA_N
ClientSampleId :
ICVBN031025

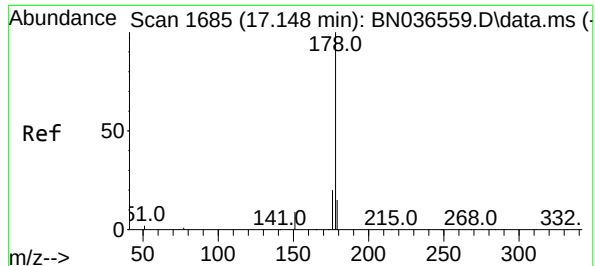
Tgt Ion	Ratio	Lower	Upper
200	100		
173	30.6	27.3	40.9
215	48.6	36.8	55.2



#24
Pentachlorophenol
Concen: 0.351 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.000 min
Lab File: BN036564.D
Acq: 10 Mar 2025 16:38

Tgt Ion	Ratio	Lower	Upper
266	100		
264	67.1	49.6	74.4
268	66.7	50.9	76.3





#25

Phenanthrene

Concen: 0.417 ng

RT: 17.148 min Scan# 1685

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

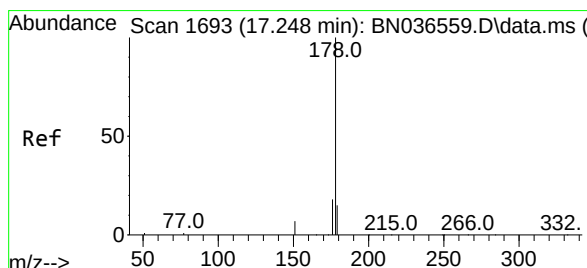
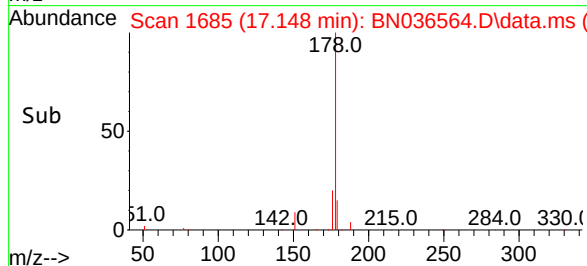
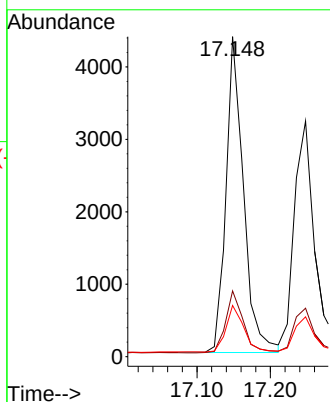
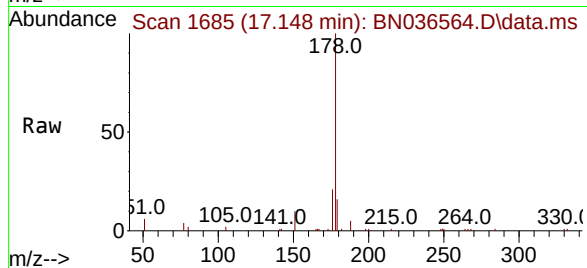
Tgt Ion:178 Resp: 7229

Ion Ratio Lower Upper

178 100

176 19.8 15.9 23.9

179 15.0 12.2 18.4



#26

Anthracene

Concen: 0.407 ng

RT: 17.248 min Scan# 1693

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

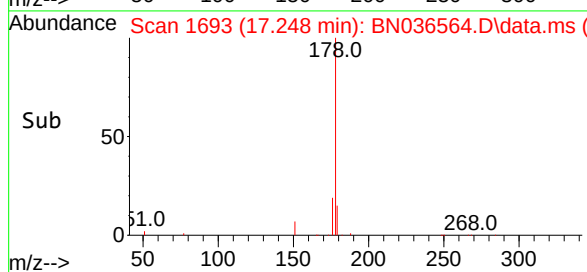
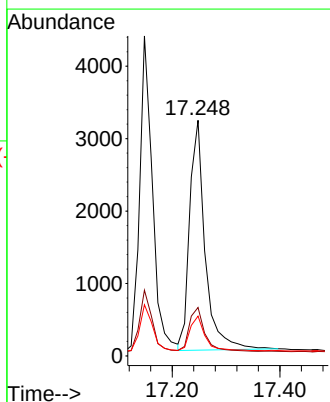
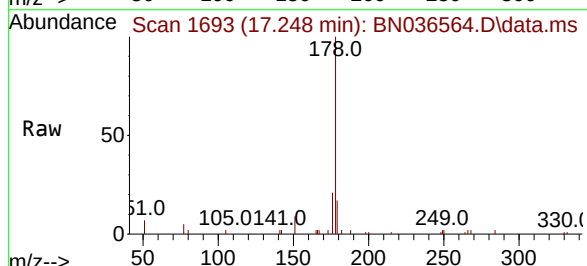
Tgt Ion:178 Resp: 6358

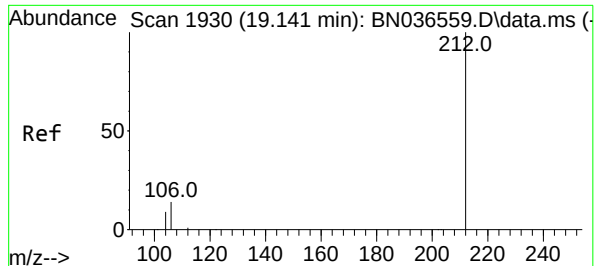
Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 14.8 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.415 ng

RT: 19.141 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

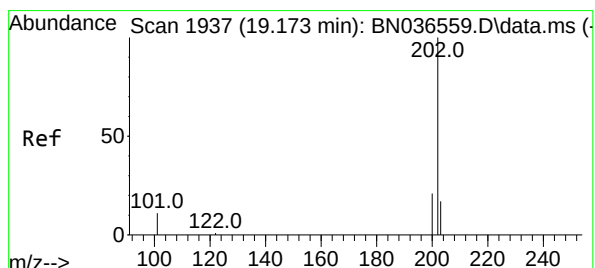
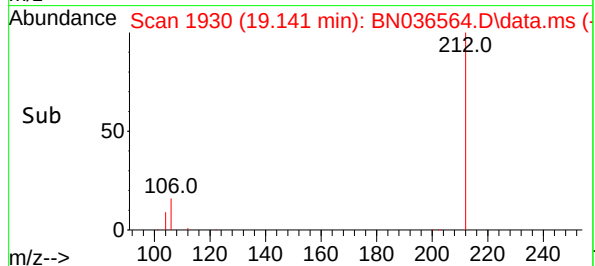
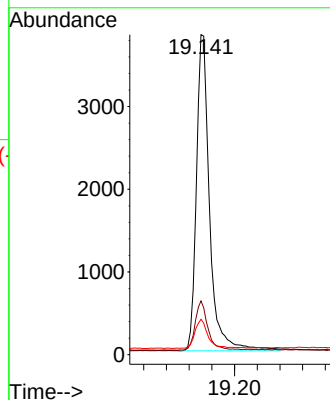
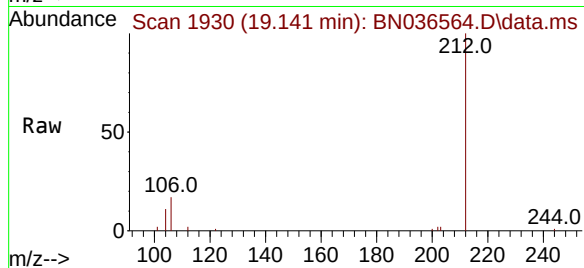
Tgt Ion:212 Resp: 6152

Ion Ratio Lower Upper

212 100

106 14.8 11.8 17.6

104 8.8 7.3 10.9



#28

Fluoranthene

Concen: 0.414 ng

RT: 19.174 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

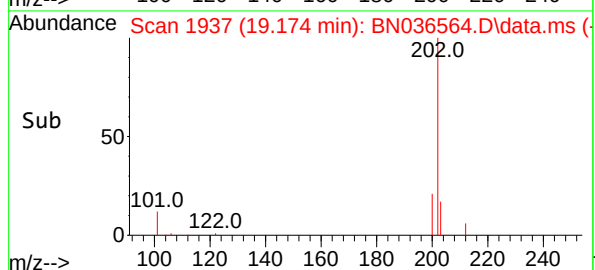
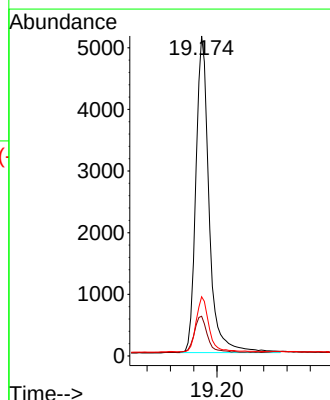
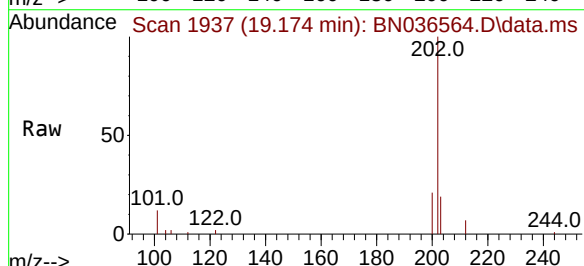
Tgt Ion:202 Resp: 8068

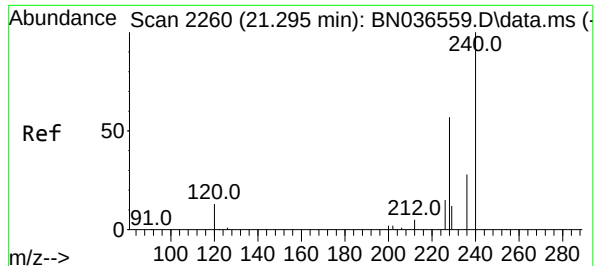
Ion Ratio Lower Upper

202 100

101 11.6 9.4 14.0

203 16.8 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

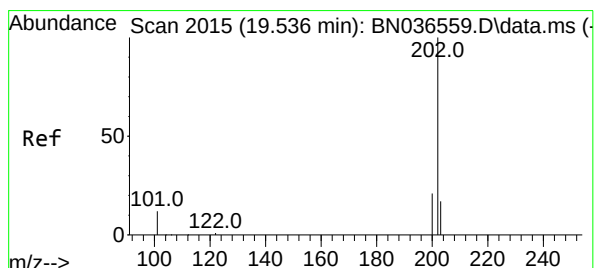
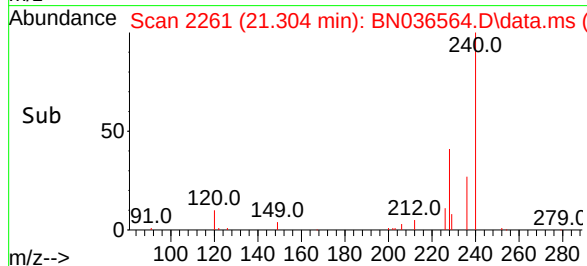
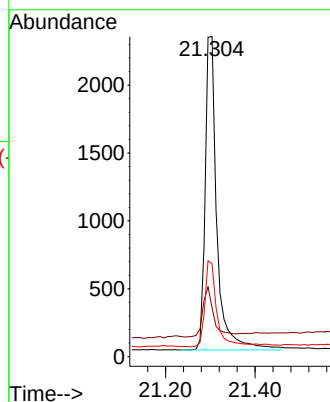
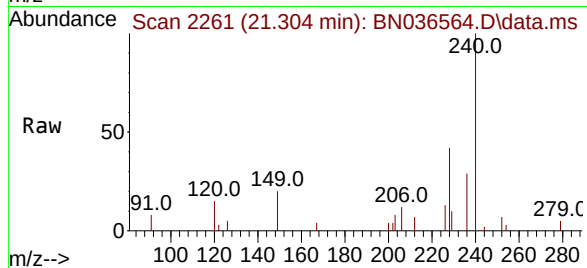
Tgt Ion:240 Resp: 4219

Ion Ratio Lower Upper

240 100

120 15.4 14.6 22.0

236 29.1 24.1 36.1



#30

Pyrene

Concen: 0.395 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

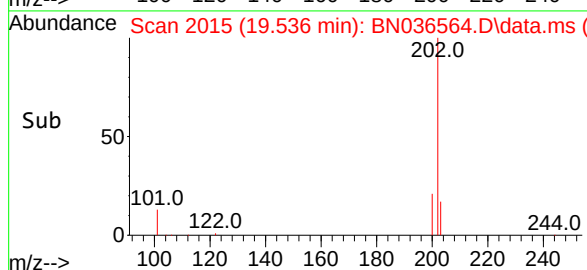
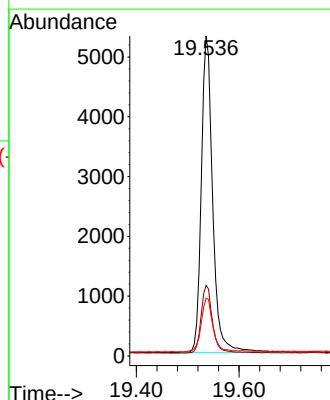
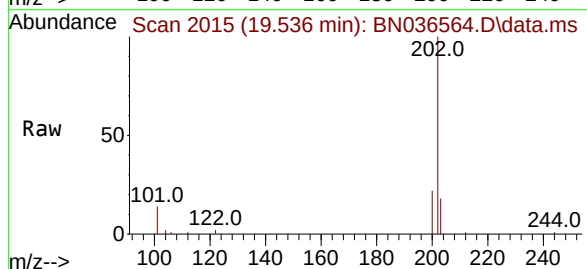
Tgt Ion:202 Resp: 8156

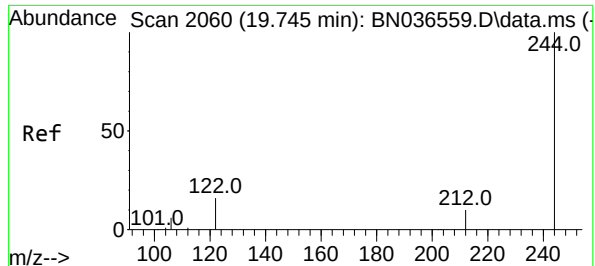
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.4 14.1 21.1





#31

Terphenyl-d14

Concen: 0.384 ng

RT: 19.750 min Scan# 2060

Delta R.T. 0.005 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

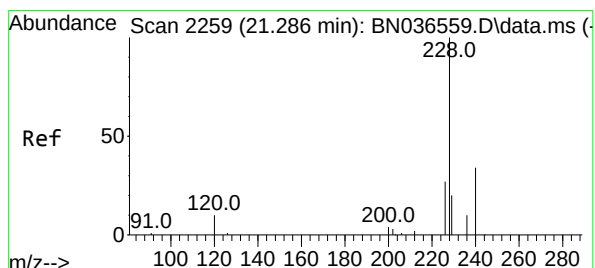
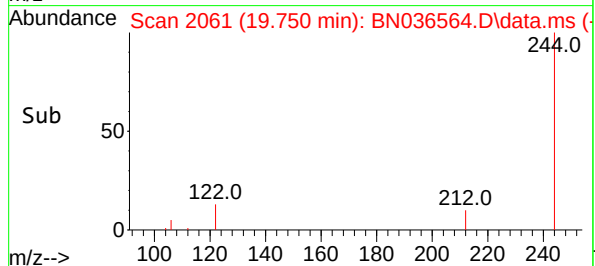
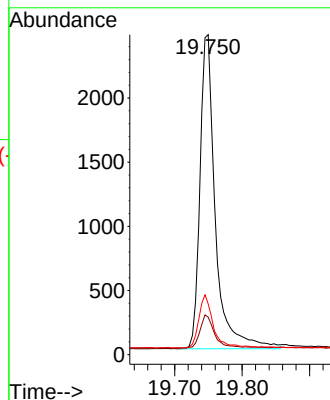
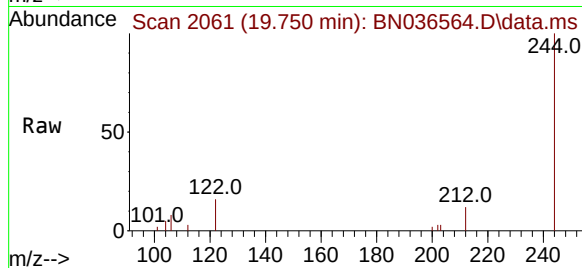
Tgt Ion:244 Resp: 3880

Ion Ratio Lower Upper

244 100

212 11.7 9.6 14.4

122 15.8 13.9 20.9



#32

Benzo(a)anthracene

Concen: 0.396 ng

RT: 21.286 min Scan# 2259

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

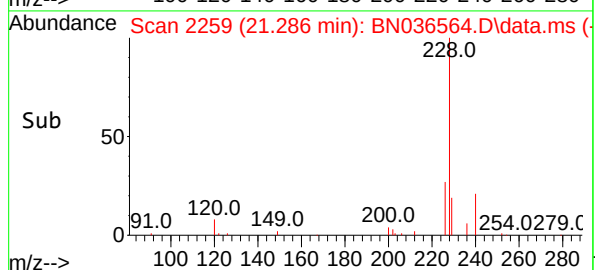
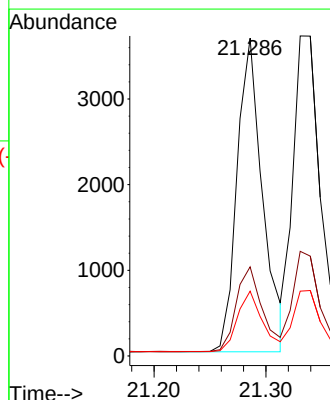
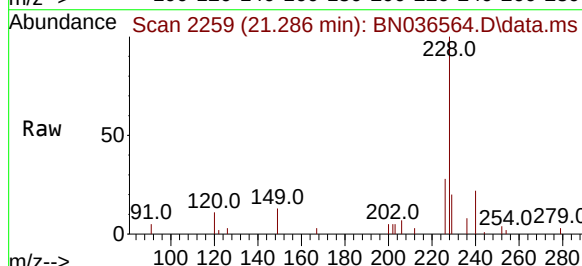
Tgt Ion:228 Resp: 5814

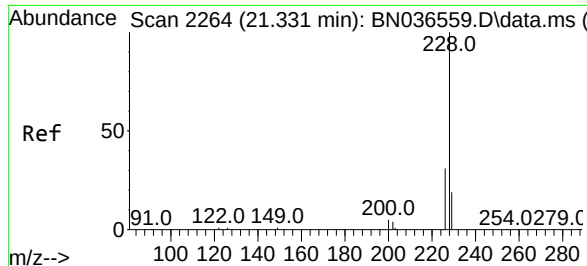
Ion Ratio Lower Upper

228 100

226 28.1 22.5 33.7

229 20.4 16.6 25.0





#33

Chrysene

Concen: 0.433 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

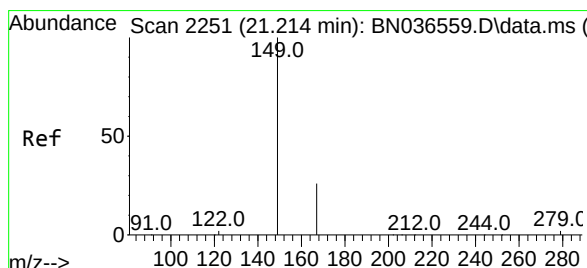
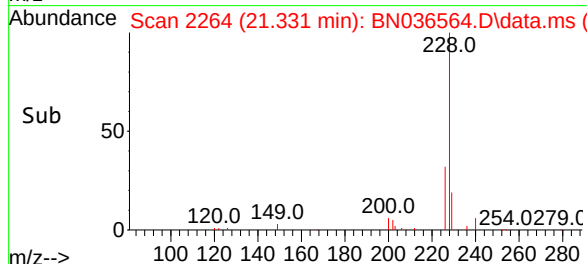
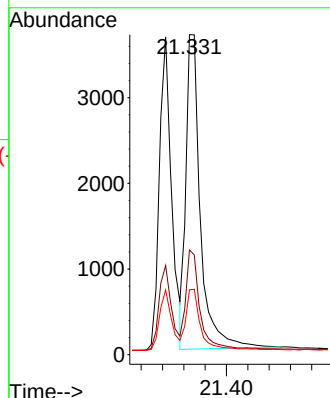
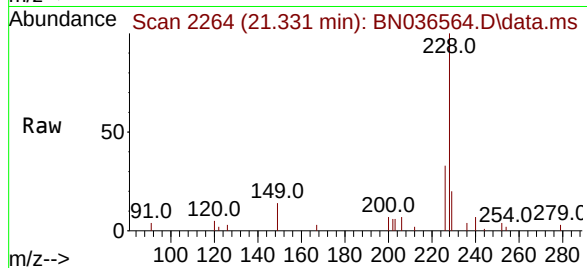
Tgt Ion:228 Resp: 6940

Ion Ratio Lower Upper

228 100

226 32.7 25.3 37.9

229 20.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.344 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

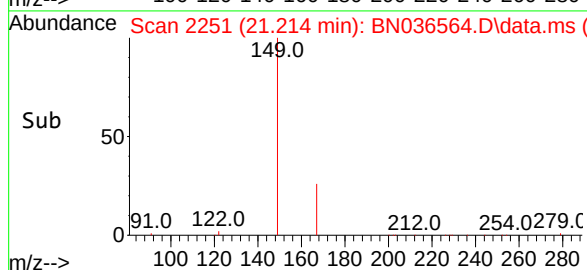
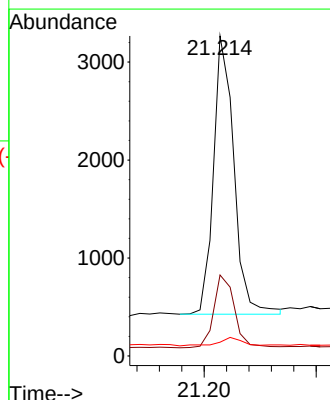
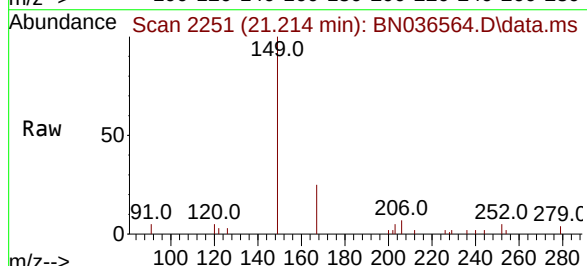
Tgt Ion:149 Resp: 3594

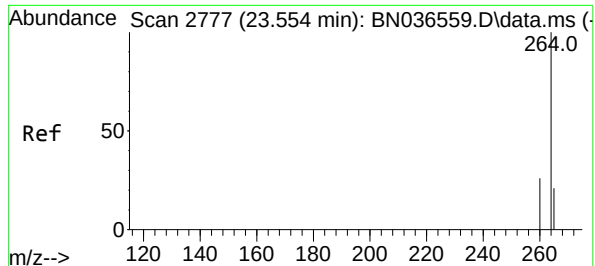
Ion Ratio Lower Upper

149 100

167 26.6 20.7 31.1

279 3.7 3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

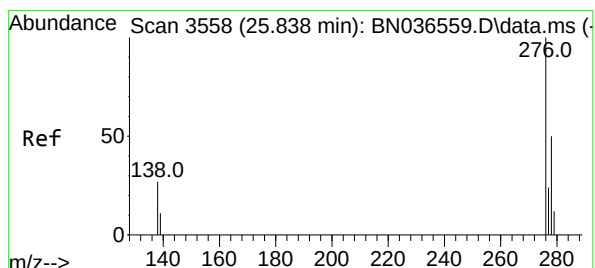
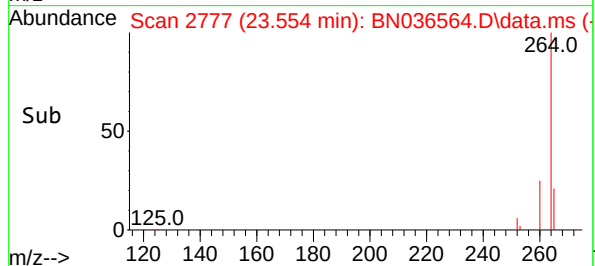
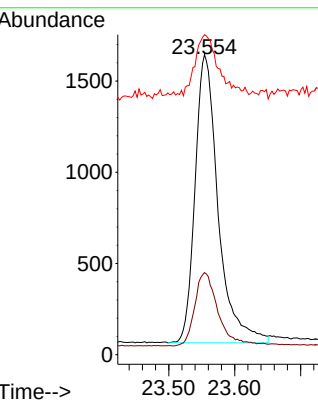
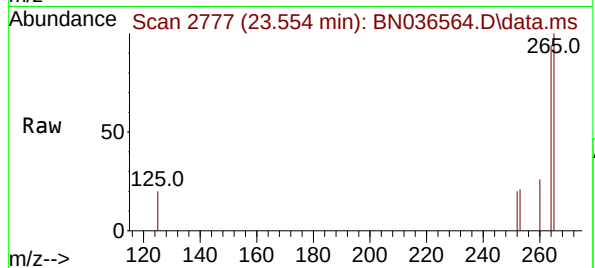
Tgt Ion:264 Resp: 3835

Ion Ratio Lower Upper

264 100

260 27.4 22.6 33.8

265 106.6 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.463 ng

RT: 25.841 min Scan# 3559

Delta R.T. 0.003 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

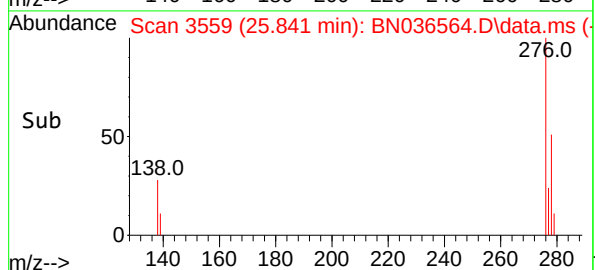
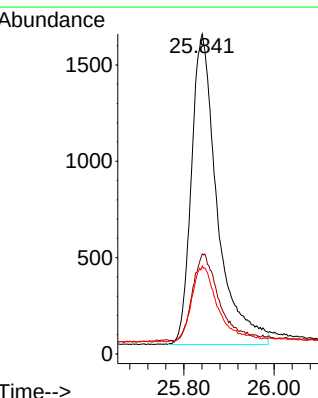
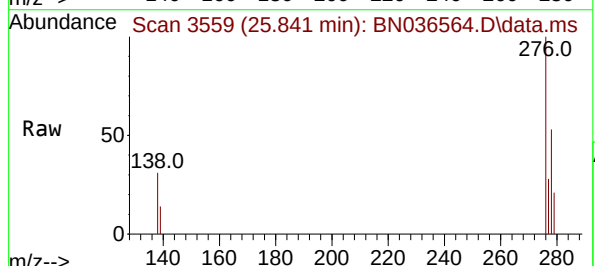
Tgt Ion:276 Resp: 6410

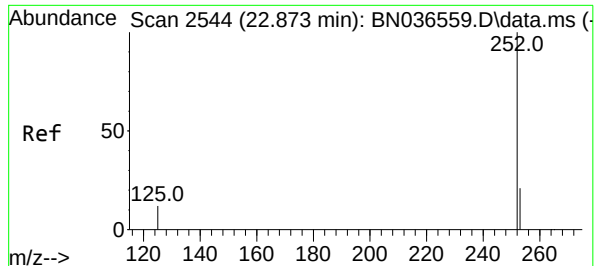
Ion Ratio Lower Upper

276 100

138 28.1 23.4 35.2

277 24.5 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.423 ng

RT: 22.879 min Scan# 2544

Delta R.T. 0.006 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

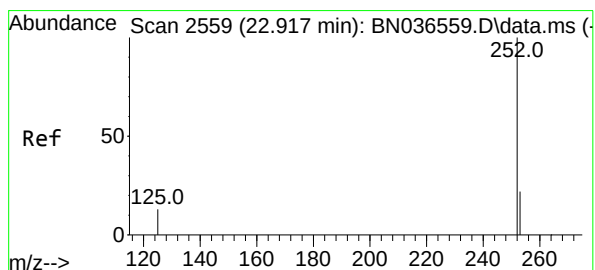
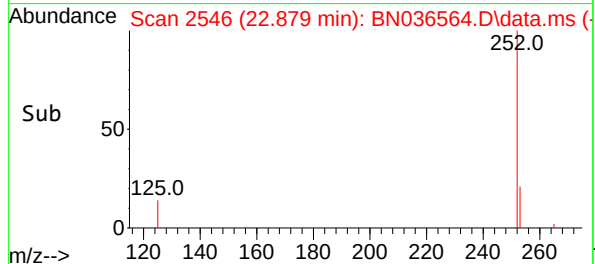
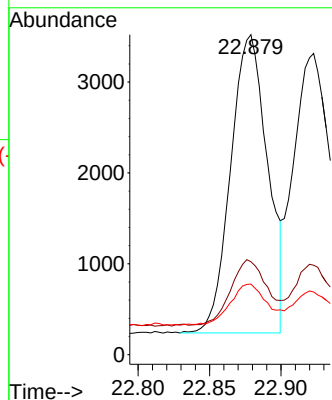
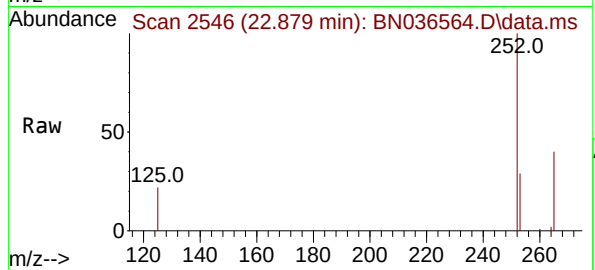
Tgt Ion:252 Resp: 5902

Ion Ratio Lower Upper

252 100

253 29.0 23.9 35.9

125 22.1 17.4 26.2



#38

Benzo(k)fluoranthene

Concen: 0.429 ng

RT: 22.923 min Scan# 2561

Delta R.T. 0.006 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

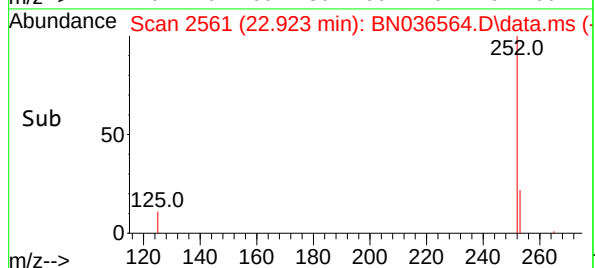
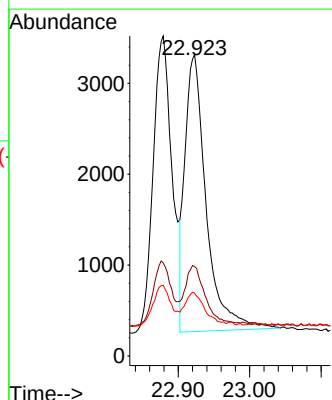
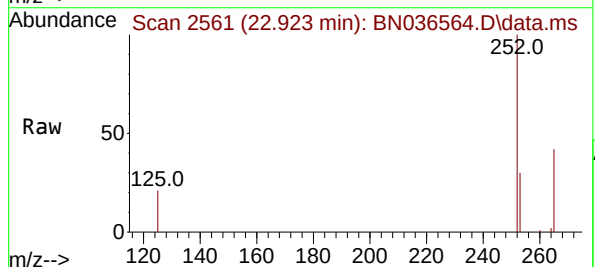
Tgt Ion:252 Resp: 6286

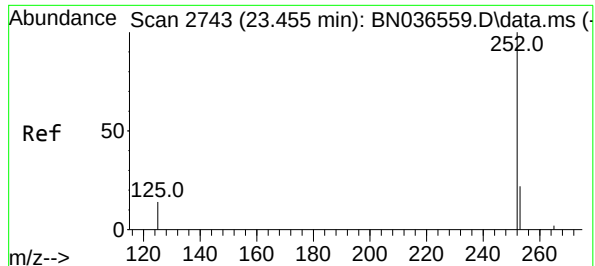
Ion Ratio Lower Upper

252 100

253 29.7 24.6 36.8

125 20.8 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.438 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025

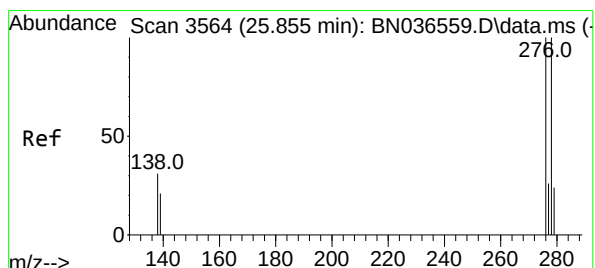
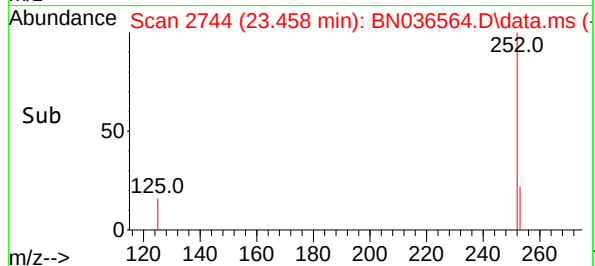
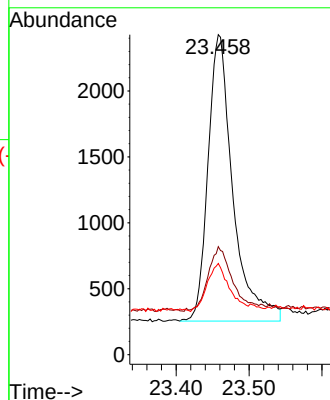
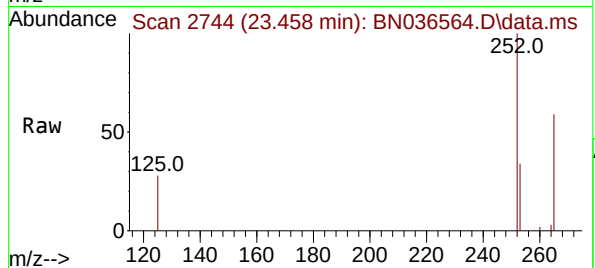
Tgt Ion:252 Resp: 5147

Ion Ratio Lower Upper

252 100

253 33.7 27.8 41.8

125 28.5 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.440 ng

RT: 25.855 min Scan# 3564

Delta R.T. 0.000 min

Lab File: BN036564.D

Acq: 10 Mar 2025 16:38

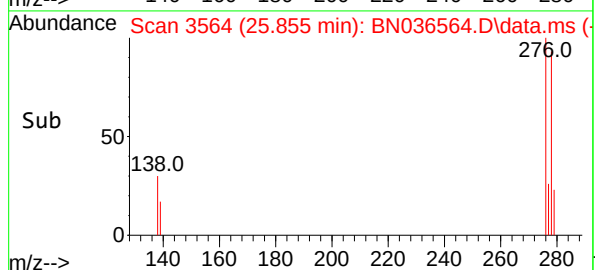
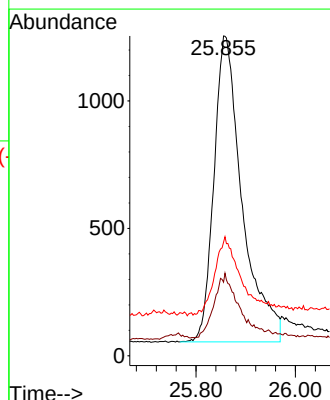
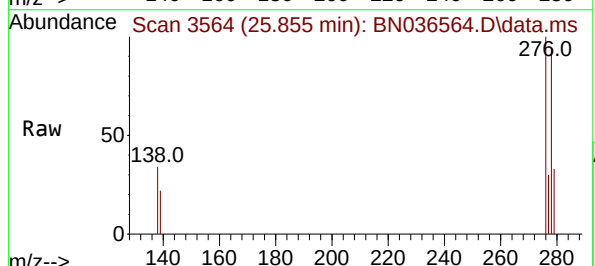
Tgt Ion:278 Resp: 4740

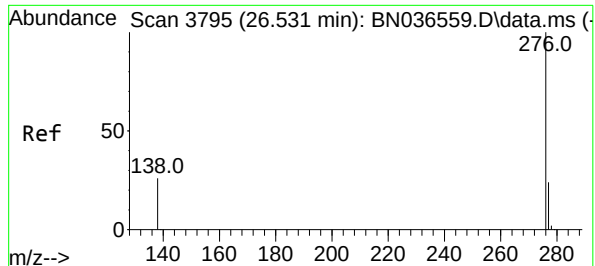
Ion Ratio Lower Upper

278 100

139 23.0 20.8 31.2

279 35.5 28.8 43.2





#41

Benzo(g,h,i)perylene

Concen: 0.477 ng

RT: 26.534 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036564.D

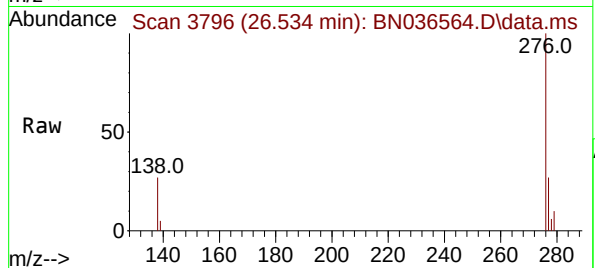
Acq: 10 Mar 2025 16:38

Instrument :

BNA_N

ClientSampleId :

ICVBN031025



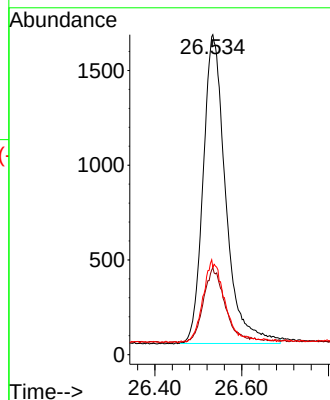
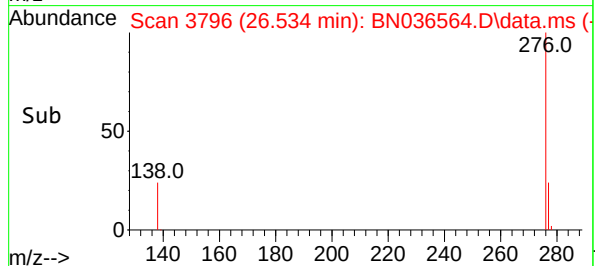
Tgt Ion:276 Resp: 5877

Ion Ratio Lower Upper

276 100

277 27.2 22.2 33.4

138 27.2 24.1 36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036564.D
 Acq On : 10 Mar 2025 16:38
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN031025

Quant Time: Mar 10 17:10:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 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	113	0.00
2	1,4-Dioxane	0.444	0.521	-17.3	118	0.00
3	n-Nitrosodimethylamine	0.898	0.918	-2.2	111	0.00
4 S	2-Fluorophenol	0.932	0.972	-4.3	111	0.00
5 S	Phenol-d6	1.152	1.103	4.3	110	0.00
6	bis(2-Chloroethyl)ether	1.190	1.184	0.5	113	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	111	0.00
8 S	Nitrobenzene-d5	0.435	0.418	3.9	112	0.00
9	Naphthalene	1.177	1.191	-1.2	109	0.00
10	Hexachlorobutadiene	0.277	0.301	-8.7	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.595	0.594	0.2	108	0.00
12	2-Methylnaphthalene	0.749	0.721	3.7	104	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.182	0.166	8.8	90	0.00
15 S	2-Fluorobiphenyl	2.327	2.513	-8.0	107	0.00
16	Acenaphthylene	1.888	1.964	-4.0	103	0.00
17	Acenaphthene	1.236	1.308	-5.8	104	0.00
18	Fluorene	1.672	1.694	-1.3	98	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00
20	4,6-Dinitro-2-methylphenol	0.086	0.070	18.6	87	0.01
21	4-Bromophenyl-phenylether	0.251	0.264	-5.2	93	0.00
22	Hexachlorobenzene	0.303	0.344	-13.5	98	0.00
23	Atrazine	0.201	0.202	-0.5	91	0.01
24	Pentachlorophenol	0.138	0.121	12.3	85	0.00
25	Phenanthrene	1.200	1.251	-4.2	93	0.00
26	Anthracene	1.083	1.100	-1.6	92	0.00
27 SURR	Fluoranthene-d10	1.025	1.065	-3.9	92	0.00
28	Fluoranthene	1.348	1.396	-3.6	93	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	103	0.00
30	Pyrene	1.956	1.933	1.2	93	0.00
31 S	Terphenyl-d14	0.958	0.920	4.0	92	0.00
32	Benzo(a)anthracene	1.391	1.378	0.9	98	0.00
33	Chrysene	1.520	1.645	-8.2	105	0.00
34	Bis(2-ethylhexyl)phthalate	0.990	0.852	13.9	84	0.00
35 I	Perylene-d12	1.000	1.000	0.0	108	0.00
36	Indeno(1,2,3-cd)pyrene	1.444	1.671	-15.7	117	0.00
37	Benzo(b)fluoranthene	1.456	1.539	-5.7	108	0.00
38	Benzo(k)fluoranthene	1.527	1.639	-7.3	110	0.00
39 C	Benzo(a)pyrene	1.226	1.342	-9.5	112	0.00
40	Dibenzo(a,h)anthracene	1.124	1.236	-10.0	115	0.00
41	Benzo(g,h,i)perylene	1.286	1.532	-19.1	120	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036564.D
Acq On : 10 Mar 2025 16:38
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN031025

Quant Time: Mar 10 17:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	113	0.00
2	1,4-Dioxane	0.400	0.470	-17.5	118	0.00
3	n-Nitrosodimethylamine	0.400	0.409	-2.2	111	0.00
4 S	2-Fluorophenol	0.400	0.417	-4.2	111	0.00
5 S	Phenol-d6	0.400	0.383	4.3	110	0.00
6	bis(2-Chloroethyl)ether	0.400	0.398	0.5	113	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	111	0.00
8 S	Nitrobenzene-d5	0.400	0.384	4.0	112	0.00
9	Naphthalene	0.400	0.405	-1.3	109	0.00
10	Hexachlorobutadiene	0.400	0.434	-8.5	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.399	0.3	108	0.00
12	2-Methylnaphthalene	0.400	0.385	3.8	104	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.400	0.365	8.8	90	0.00
15 S	2-Fluorobiphenyl	0.400	0.432	-8.0	107	0.00
16	Acenaphthylene	0.400	0.416	-4.0	103	0.00
17	Acenaphthene	0.400	0.423	-5.7	104	0.00
18	Fluorene	0.400	0.405	-1.3	98	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	96	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.420	-5.0	87	0.01
21	4-Bromophenyl-phenylether	0.400	0.421	-5.2	93	0.00
22	Hexachlorobenzene	0.400	0.455	-13.7	98	0.00
23	Atrazine	0.400	0.401	-0.3	91	0.01
24	Pentachlorophenol	0.400	0.351	12.3	85	0.00
25	Phenanthrene	0.400	0.417	-4.2	93	0.00
26	Anthracene	0.400	0.407	-1.7	92	0.00
27 SURR	Fluoranthene-d10	0.400	0.415	-3.7	92	0.00
28	Fluoranthene	0.400	0.414	-3.5	93	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	103	0.00
30	Pyrene	0.400	0.395	1.3	93	0.00
31 S	Terphenyl-d14	0.400	0.384	4.0	92	0.00
32	Benzo(a)anthracene	0.400	0.396	1.0	98	0.00
33	Chrysene	0.400	0.433	-8.2	105	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.344	14.0	84	0.00
35 I	Perylene-d12	0.400	0.400	0.0	108	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.463	-15.8	117	0.00
37	Benzo(b)fluoranthene	0.400	0.423	-5.7	108	0.00
38	Benzo(k)fluoranthene	0.400	0.429	-7.2	110	0.00
39 C	Benzo(a)pyrene	0.400	0.438	-9.5	112	0.00
40	Dibenzo(a,h)anthracene	0.400	0.440	-10.0	115	0.00
41	Benzo(g,h,i)perylene	0.400	0.477	-19.2	120	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.: Q1620 SAS No.: Q1620 SDG No.: Q1620

Instrument ID: BNA_N Calibration Date/Time: 03/28/2025 03:46

Lab File ID: BN036757.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.509		-14.5	20.0
Fluoranthene-d10	1.025	1.053		2.7	20.0
2-Fluorophenol	0.932	0.782		-16.1	20.0
Phenol-d6	1.152	0.986		-14.4	20.0
Nitrobenzene-d5	0.435	0.370		-14.9	20.0
2-Fluorobiphenyl	2.327	2.013		-13.5	20.0
2,4,6-Tribromophenol	0.182	0.184		1.1	20.0
Terphenyl-d14	0.958	0.749		-21.8	20.0
1,4-Dioxane	0.444	0.442		-0.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
 Data File : BN036757.D
 Acq On : 28 Mar 2025 03:46
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/28/2025

Supervised By :Jagrut Upadhyay 04/01/2025

Quant Time: Mar 28 05:36:56 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Mar 10 16:06:28 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1974	0.400	ng	-0.02
7) Naphthalene-d8	10.488	136	4607	0.400	ng	-0.02
13) Acenaphthene-d10	14.334	164	2750	0.400	ng	-0.03
19) Phenanthrene-d10	17.087	188	5937	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	5680	0.400	ng	#-0.02
35) Perylene-d12	23.519	264	5140	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	1543	0.335	ng	-0.02
5) Phenol-d6	6.872	99	1947	0.343	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1705	0.340	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2347	0.342	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	507	0.406	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	5537	0.346	ng	-0.03
27) Fluoranthene-d10	19.118	212	6252	0.411	ng	-0.02
31) Terphenyl-d14	19.722	244	4254	0.313	ng	-0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.225	88	873	0.399	ng	97
3) n-Nitrosodimethylamine	3.536	42	1735	0.392	ng	95
6) bis(2-Chloroethyl)ether	7.125	93	2072	0.353	ng	98
9) Naphthalene	10.530	128	4865	0.359	ng	99
10) Hexachlorobutadiene	10.829	225	1140	0.357	ng	# 99
12) 2-Methylnaphthalene	12.157	142	3049	0.354	ng	98
16) Acenaphthylene	14.056	152	4680	0.361	ng	99
17) Acenaphthene	14.398	154	3124	0.368	ng	100
18) Fluorene	15.393	166	4263	0.371	ng	99
20) 4,6-Dinitro-2-methylph...	15.478	198	472	0.457	ng	83
21) 4-Bromophenyl-phenylether	16.280	248	1382	0.372	ng	91
22) Hexachlorobenzene	16.391	284	1636	0.364	ng	97
23) Atrazine	16.553	200	1154	0.387	ng	97
24) Pentachlorophenol	16.739	266	868	0.424	ng	97
25) Phenanthrene	17.124	178	6866	0.386	ng	100
26) Anthracene	17.223	178	6014	0.374	ng	99
28) Fluoranthene	19.150	202	8476	0.424	ng	99
30) Pyrene	19.513	202	9024	0.325	ng	100
32) Benzo(a)anthracene	21.259	228	7146	0.362	ng	99
33) Chrysene	21.313	228	8272	0.383	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	5431	0.386	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.782	276	7314	0.394	ng	95
37) Benzo(b)fluoranthene	22.841	252	7293	0.390	ng	95
38) Benzo(k)fluoranthene	22.888	252	7751m	0.395	ng	
39) Benzo(a)pyrene	23.420	252	6291	0.399	ng	95
40) Dibenzo(a,h)anthracene	25.803	278	5522	0.382	ng	91
41) Benzo(g,h,i)perylene	26.475	276	6376	0.386	ng	94

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

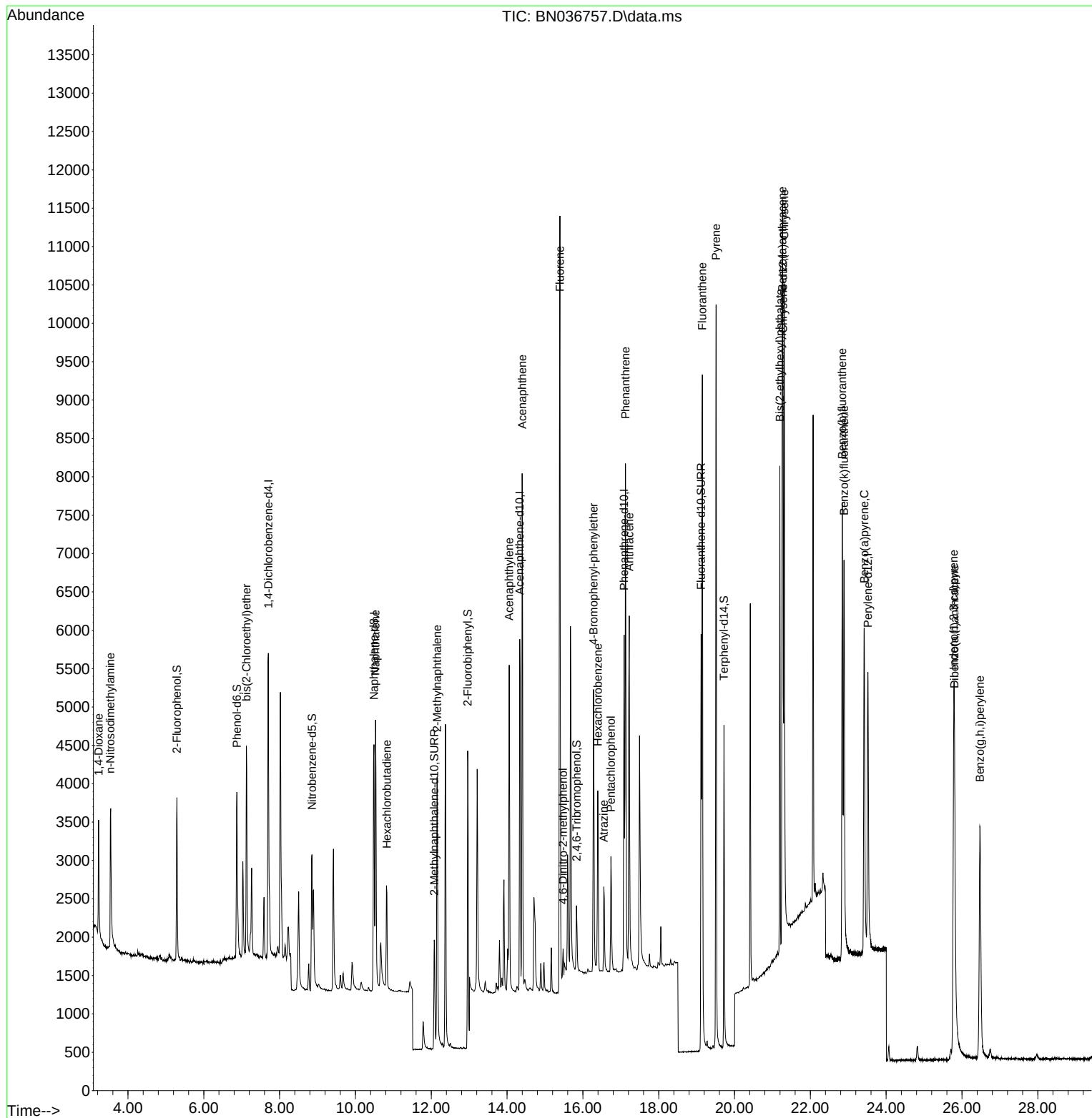
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 Data File : BN036757.D
 Acq On : 28 Mar 2025 03:46
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

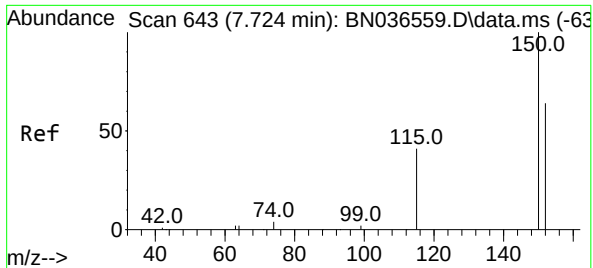
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

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 Supervised By :Jagrut Upadhyay 04/01/2025

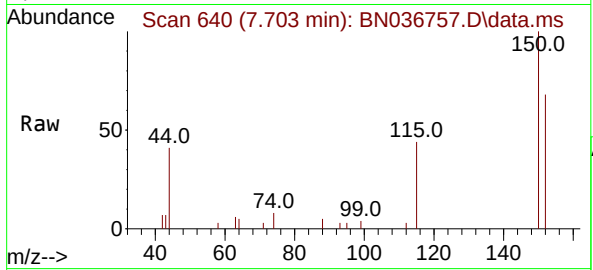
Quant Time: Mar 28 05:36:56 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

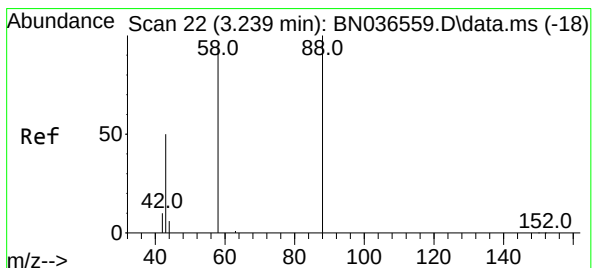
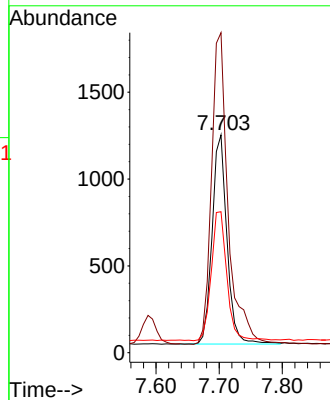
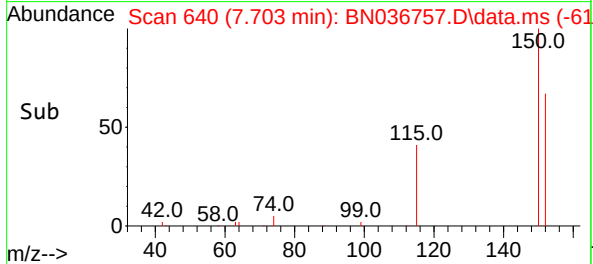
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 1974
Ion Ratio Lower Upper
152 100
150 147.0 123.7 185.5
115 64.8 54.3 81.5

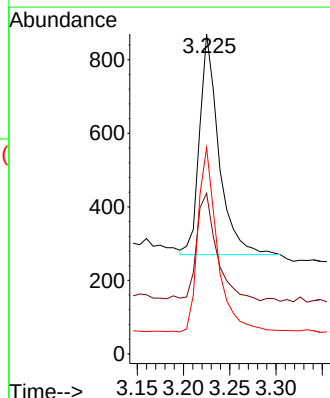
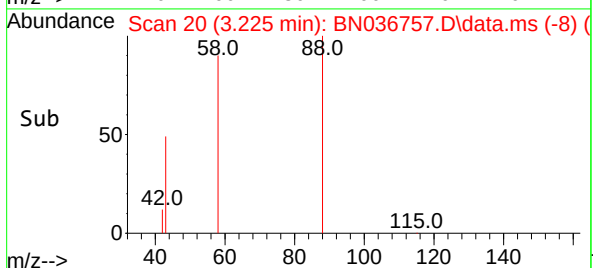
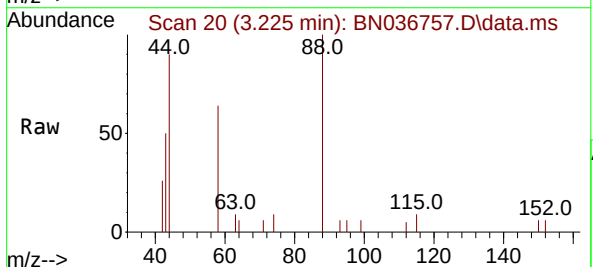
Manual Integrations
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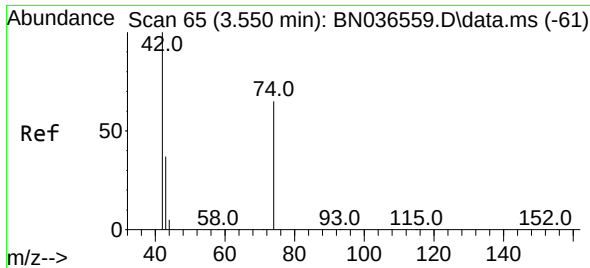
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#2
1,4-Dioxane
Concen: 0.399 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 88 Resp: 873
Ion Ratio Lower Upper
88 100
43 51.8 37.8 56.8
58 83.6 67.4 101.2





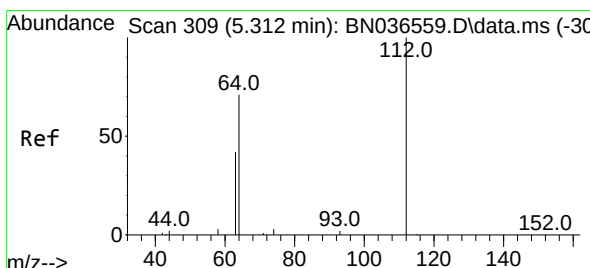
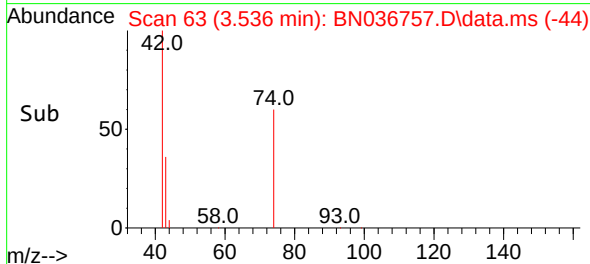
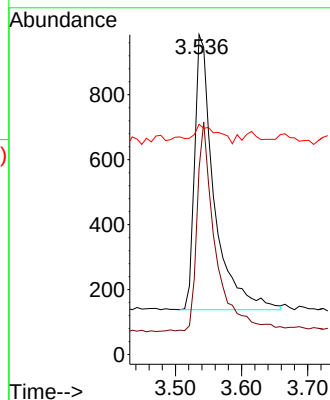
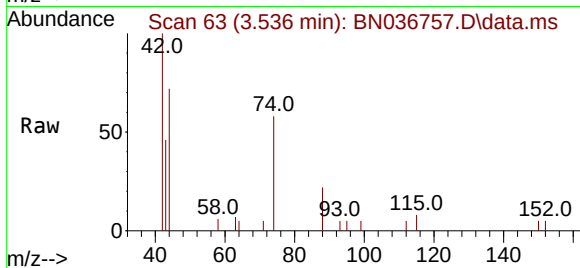
#3
n-Nitrosodimethylamine
Concen: 0.392 ng
RT: 3.536 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 173
Ion Ratio Lower Upper
42 100
74 70.8 60.6 90.8
44 8.1 6.3 9.5

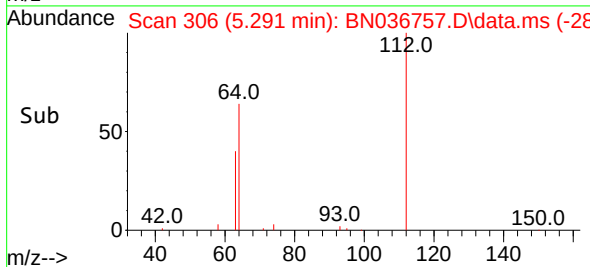
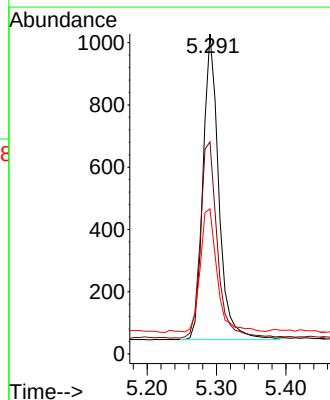
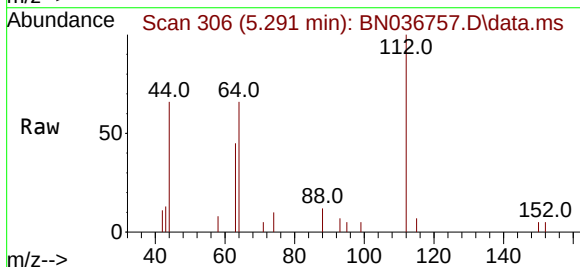
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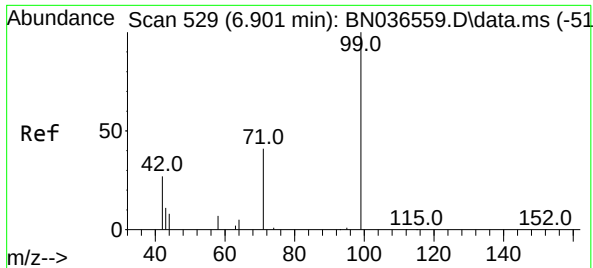
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#4
2-Fluorophenol
Concen: 0.335 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:112 Resp: 1543
Ion Ratio Lower Upper
112 100
64 69.8 53.1 79.7
63 43.0 31.8 47.8





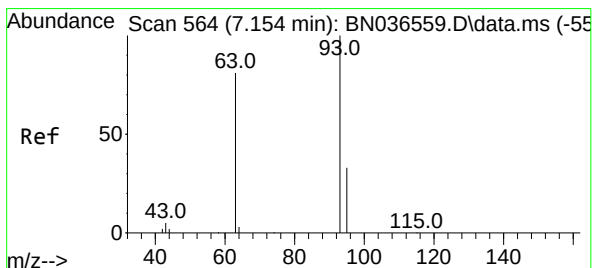
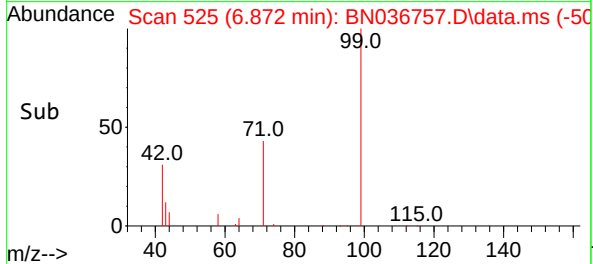
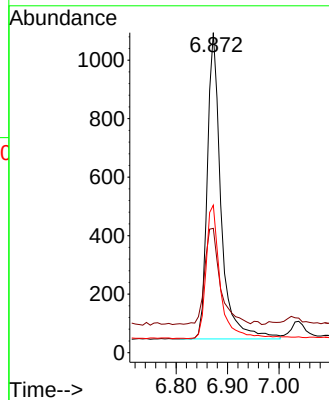
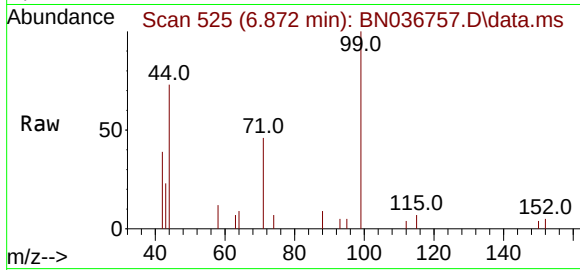
#5
Phenol-d6
Concen: 0.343 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 194
Ion Ratio Lower Upper
99 100
42 35.4 26.5 39.7
71 46.1 34.1 51.1

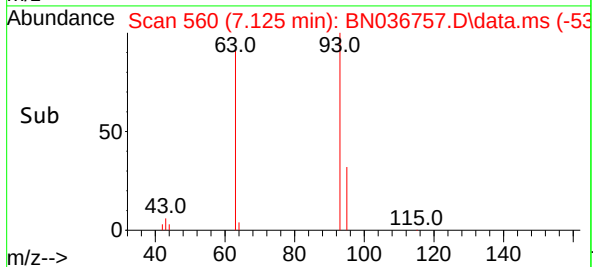
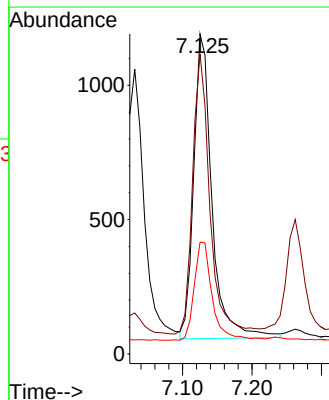
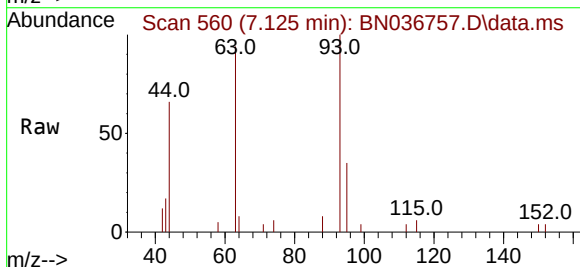
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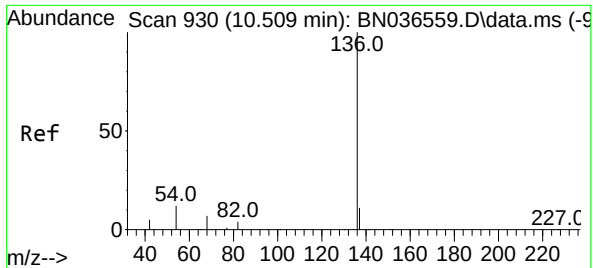
Reviewed By :Anahy Claudio 03/28/2025
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#6
bis(2-Chloroethyl)ether
Concen: 0.353 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

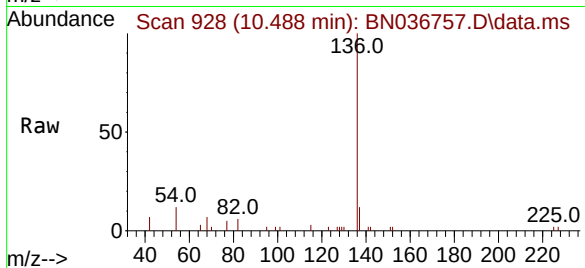
Tgt Ion: 93 Resp: 2072
Ion Ratio Lower Upper
93 100
63 86.9 67.7 101.5
95 31.7 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

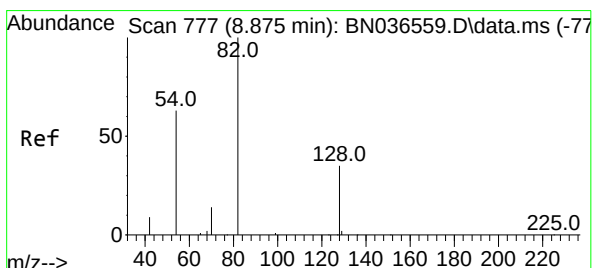
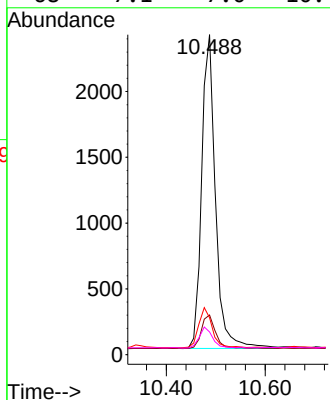
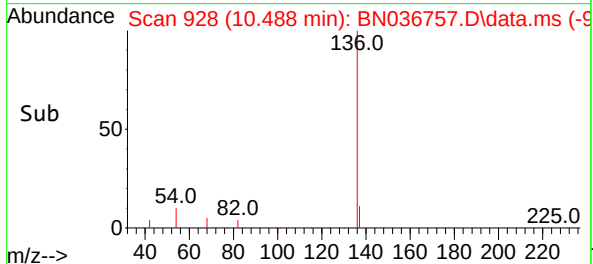
Instrument :
BNA_N
ClientSampleId :
SSTDC0.4



Tgt Ion:136 Resp: 460
Ion Ratio Lower Upper
136 100
137 12.4 10.3 15.5
54 11.6 11.5 17.3
68 7.1 7.0 10.4

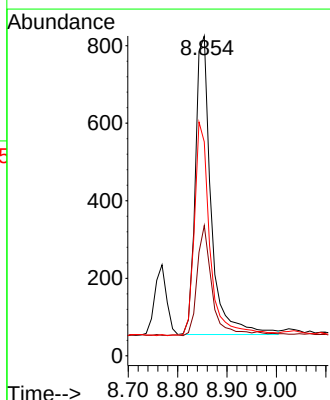
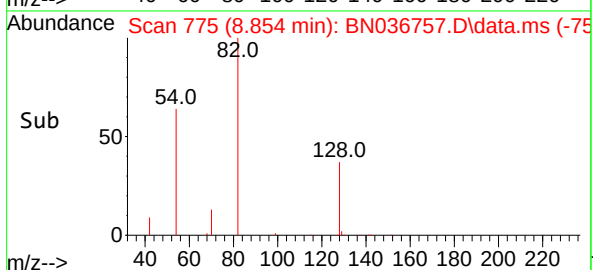
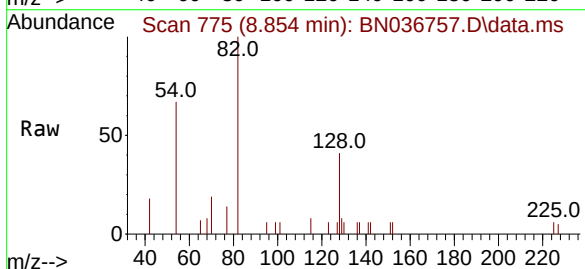
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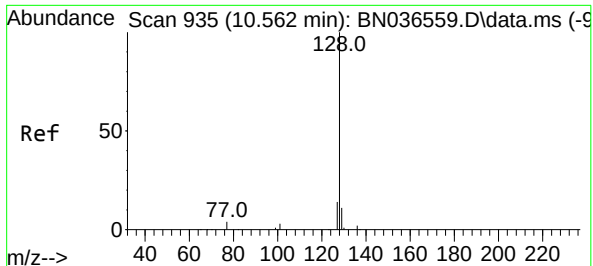
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#8
Nitrobenzene-d5
Concen: 0.340 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 82 Resp: 1705
Ion Ratio Lower Upper
82 100
128 40.7 30.6 45.8
54 66.9 52.2 78.4





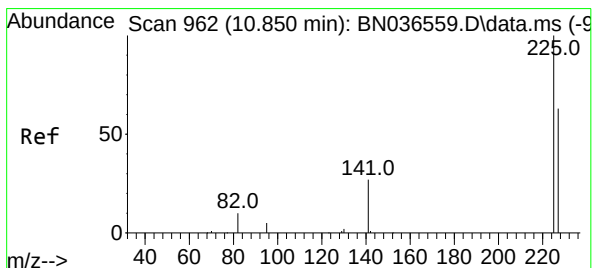
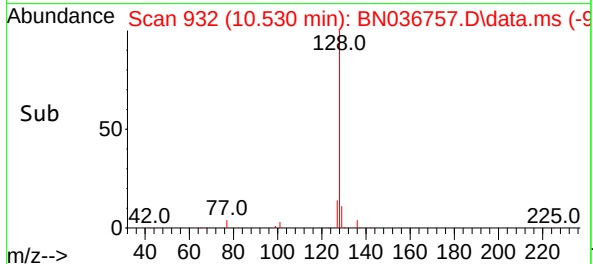
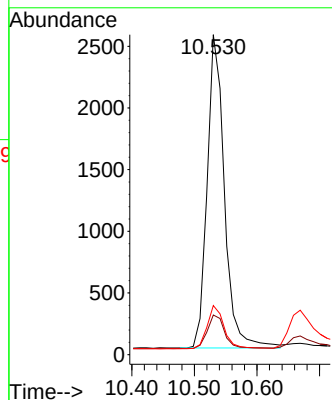
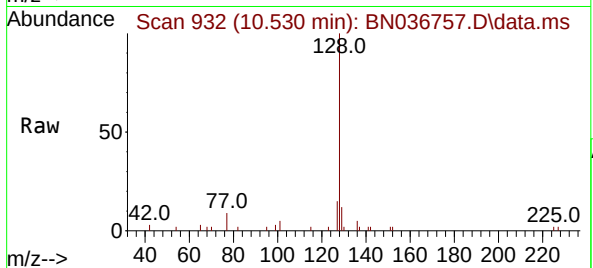
#9
Naphthalene
Concen: 0.359 ng
RT: 10.530 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 486
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 15.3 11.8 17.8

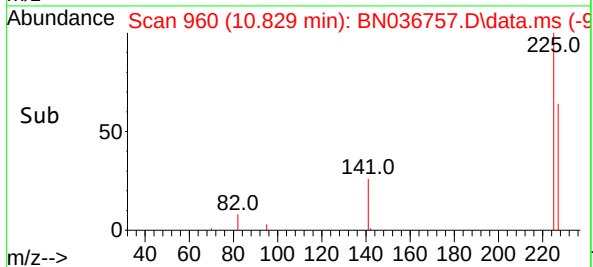
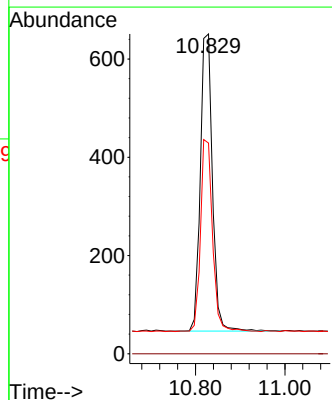
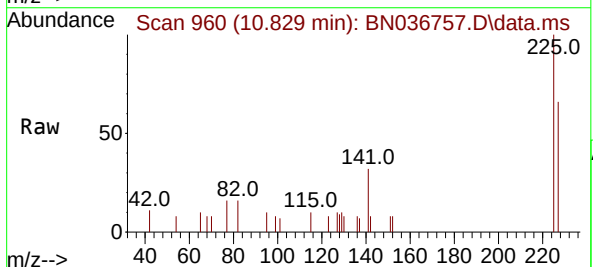
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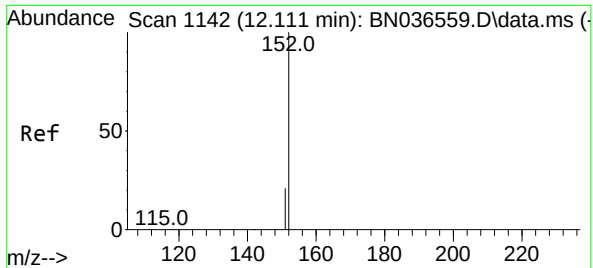
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#10
Hexachlorobutadiene
Concen: 0.357 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

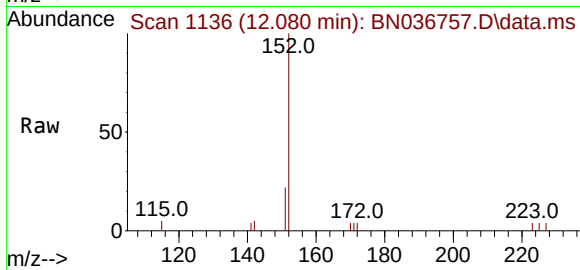
Tgt Ion:225 Resp: 1140
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 51.8 77.8





#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 12.080 min Scan# 1142
Delta R.T. -0.030 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

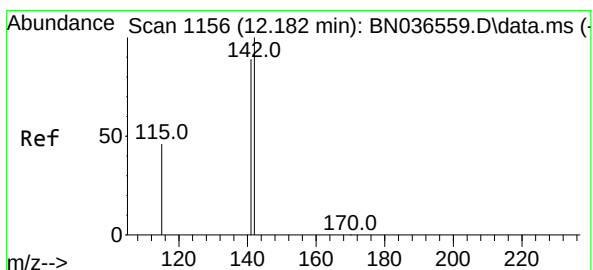
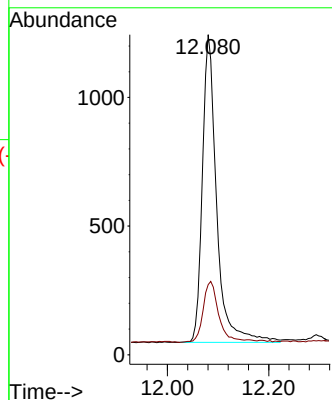
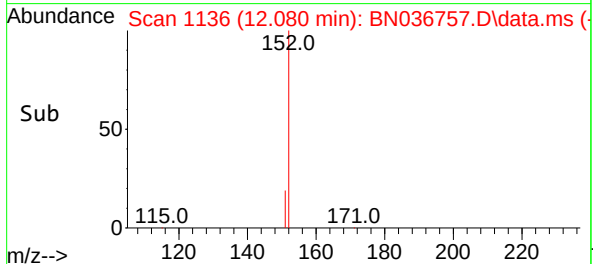
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 234
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6

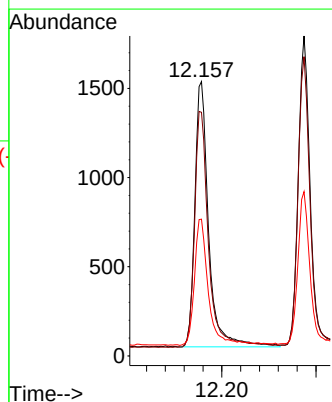
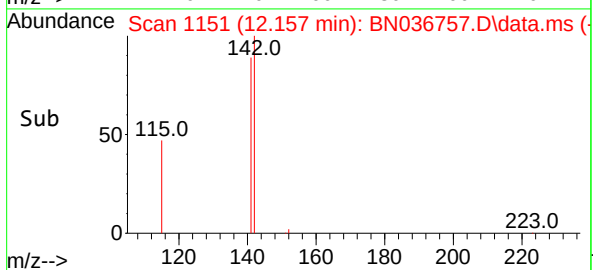
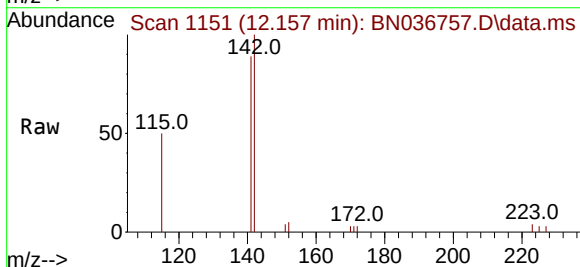
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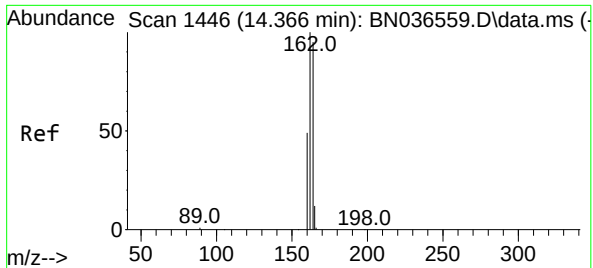
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

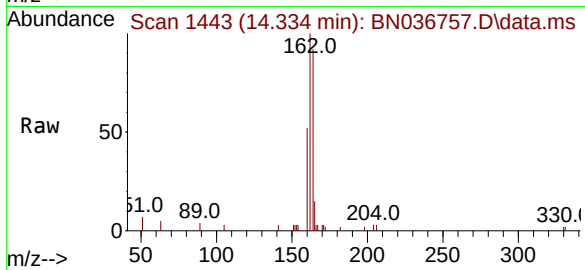
Tgt Ion:142 Resp: 3049
Ion Ratio Lower Upper
142 100
141 88.8 71.7 107.5
115 49.9 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

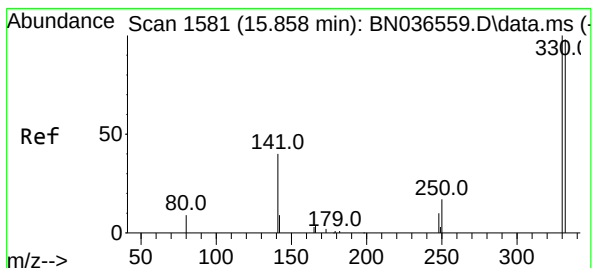
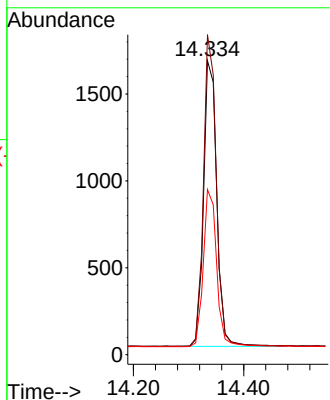
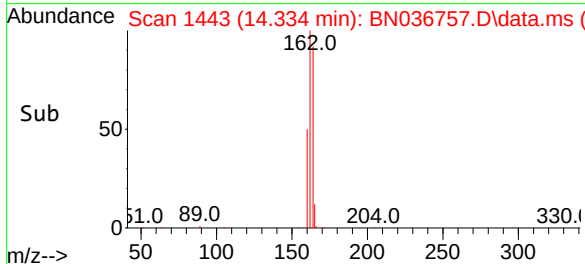
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



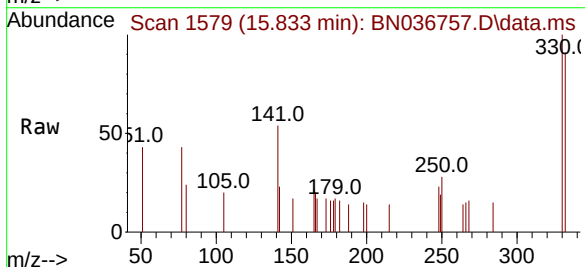
Tgt Ion:164 Resp: 2750
Ion Ratio Lower Upper
164 100
162 108.9 84.2 126.2
160 56.2 42.2 63.2

Manual Integrations
APPROVED

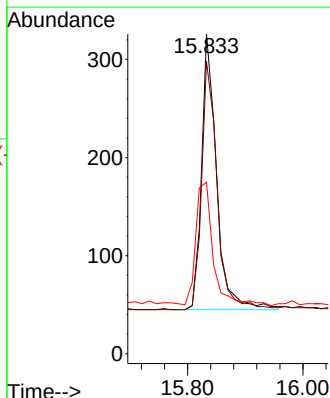
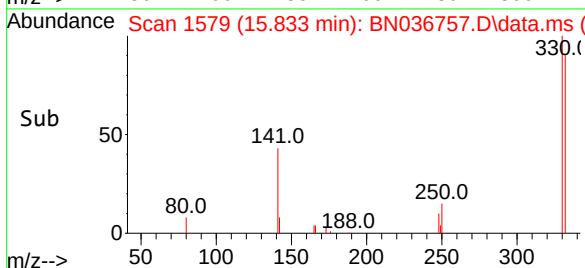
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

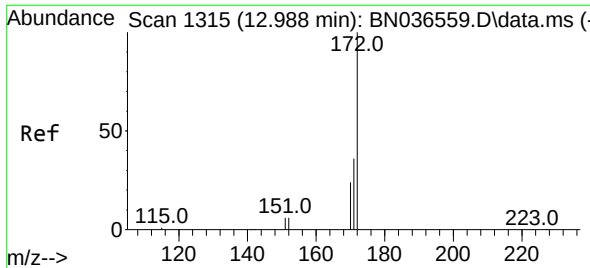


#14
2,4,6-Tribromophenol
Concen: 0.406 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46



Tgt Ion:330 Resp: 507
Ion Ratio Lower Upper
330 100
332 92.9 75.2 112.8
141 52.3 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.963 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :

BNA_N

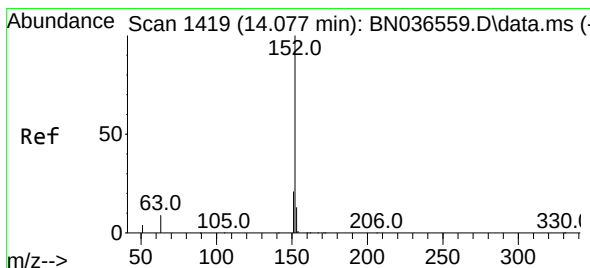
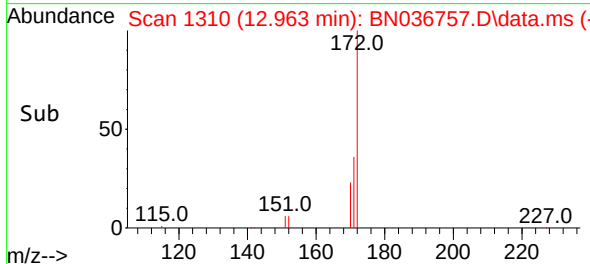
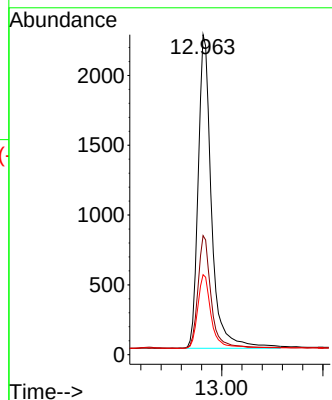
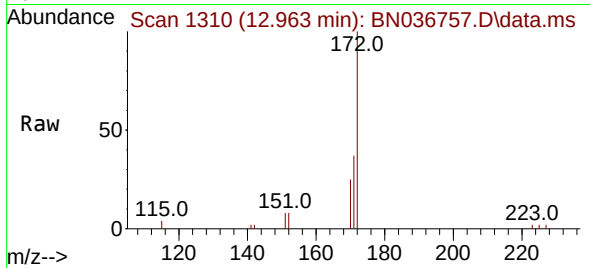
ClientSampleId :

SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.5	44.3
170	25.0	20.2	30.4

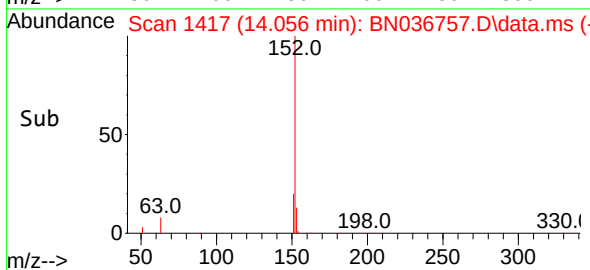
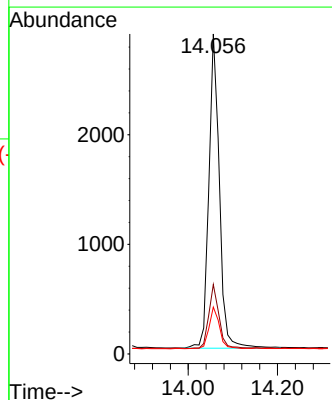
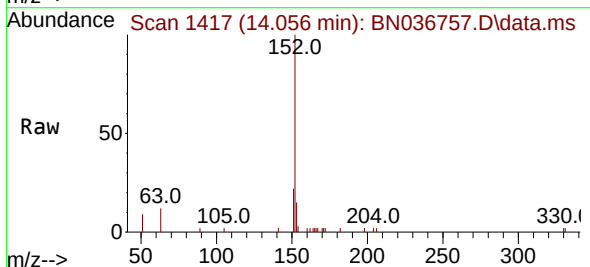
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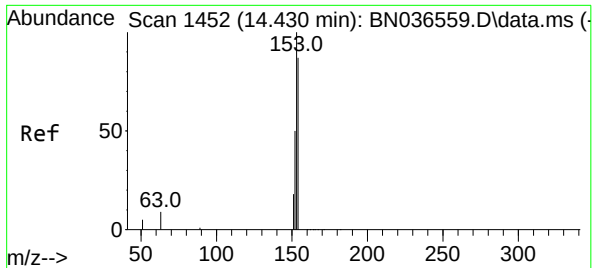
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#16
Acenaphthylene
Concen: 0.361 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.4
153	13.4	10.6	15.8





#17

Acenaphthene

Concen: 0.368 ng

RT: 14.398 min Scan# 1449

Delta R.T. -0.032 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Instrument :

BNA_N

ClientSampleId :

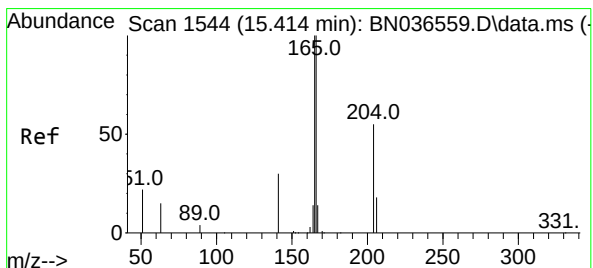
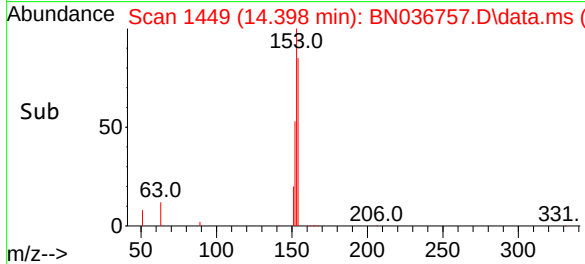
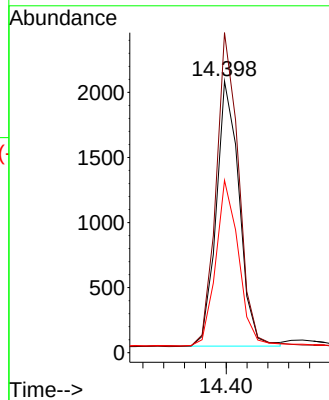
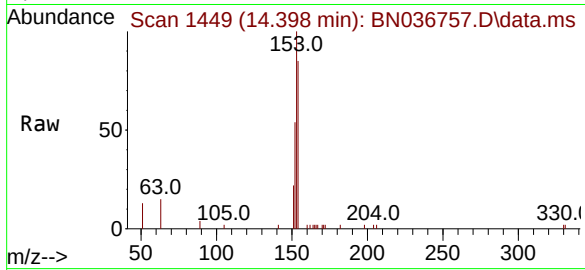
SSTDCCC0.4

Tgt Ion:	154	Resp:	3124
Ion Ratio	Lower	Upper	
154	100		
153	117.8	94.1	141.1
152	62.6	49.8	74.6

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Supervised By :Jagrut Upadhyay 04/01/2025



#18

Fluorene

Concen: 0.371 ng

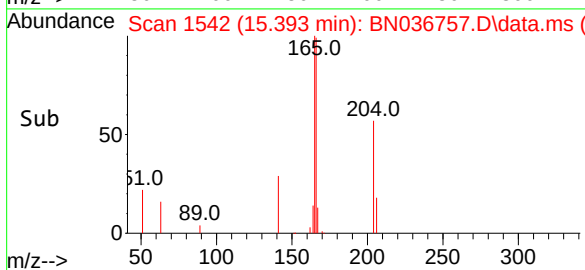
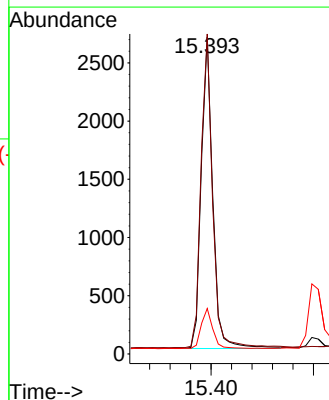
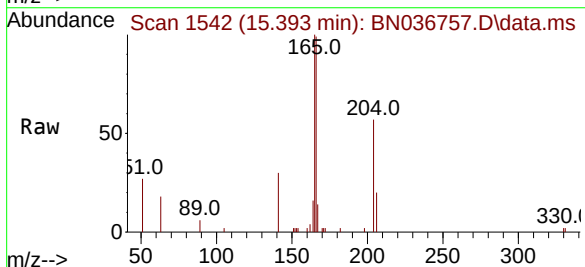
RT: 15.393 min Scan# 1542

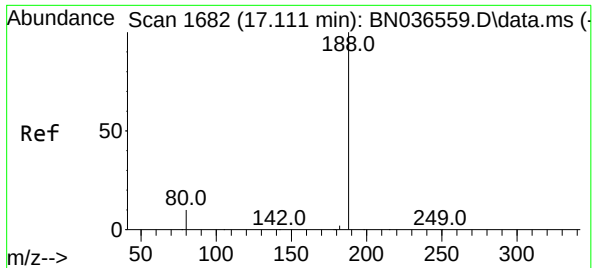
Delta R.T. -0.021 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Tgt Ion:	166	Resp:	4263
Ion Ratio	Lower	Upper	
166	100		
165	100.3	79.8	119.8
167	12.7	10.6	15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 11

Delta R.T. -0.025 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Instrument :

BNA_N

ClientSampleId :

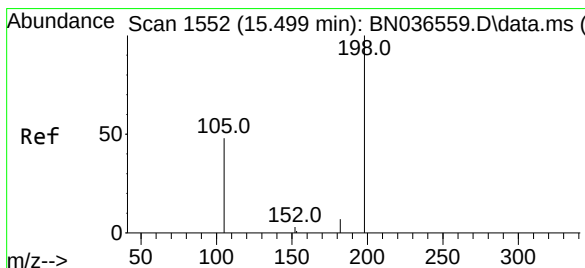
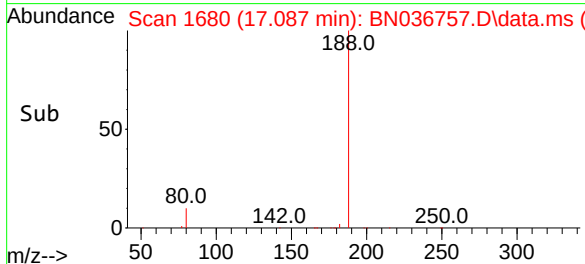
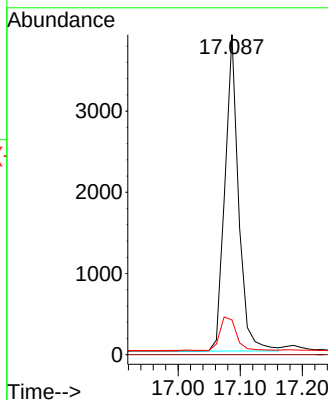
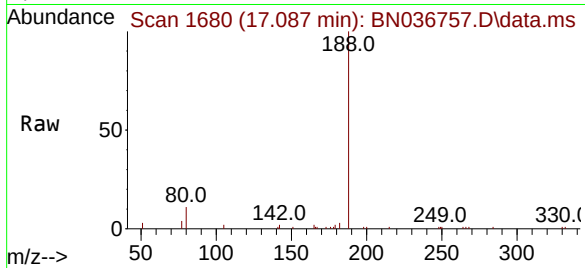
SSTDCCC0.4

Tgt Ion:188	Resp:	593
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	10.8	13.2

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 Supervised By :Jagrut Upadhyay 04/01/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.457 ng

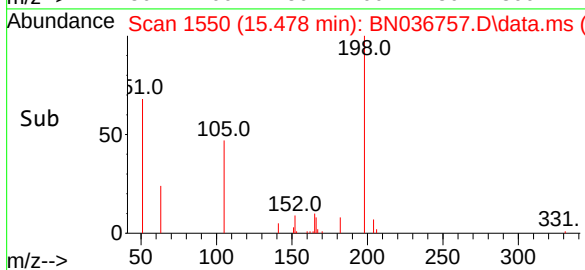
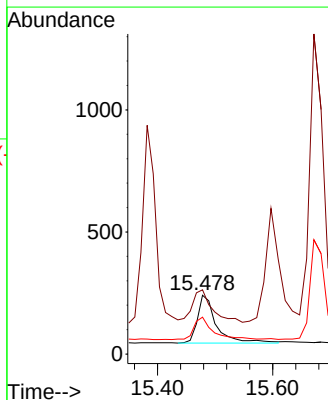
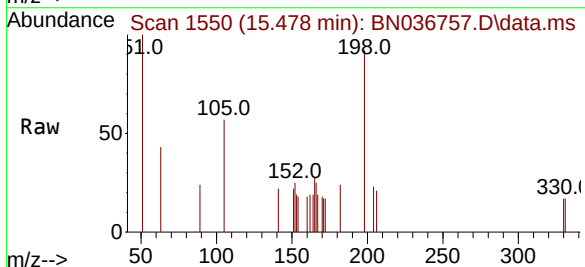
RT: 15.478 min Scan# 1550

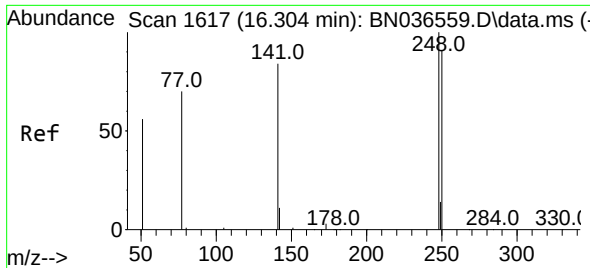
Delta R.T. -0.021 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Tgt Ion:198	Resp:	472
Ion Ratio	Lower	Upper
198	100	
51	109.1	107.9
105	62.7	56.2





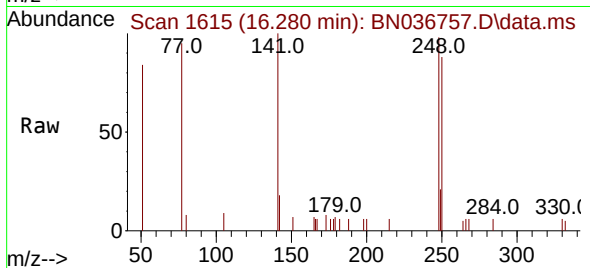
#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :

BNA_N

ClientSampleId :

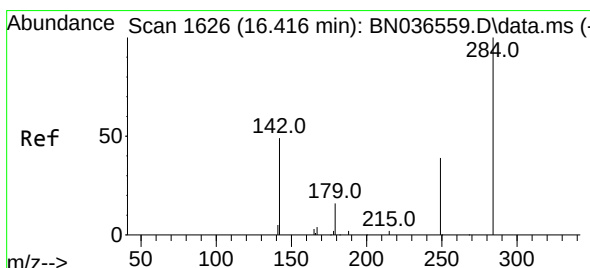
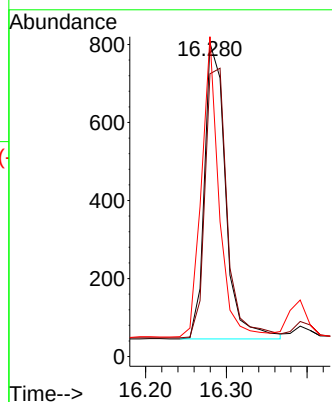
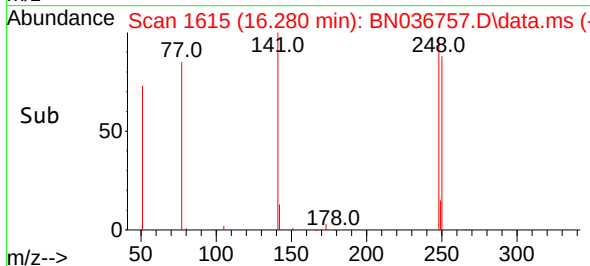
SSTDCCC0.4



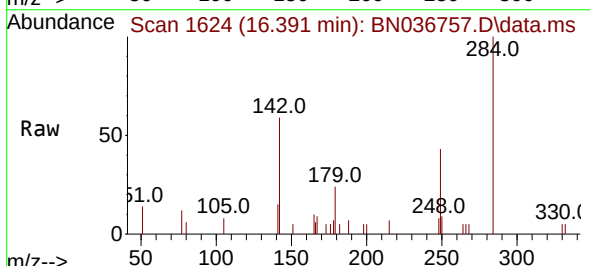
Tgt Ion:248 Resp: 138
Ion Ratio Lower Upper
248 100
250 90.2 73.0 109.6
141 102.0 68.6 103.0

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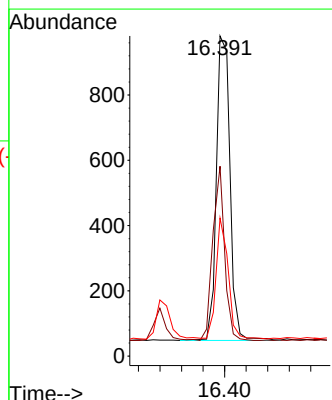
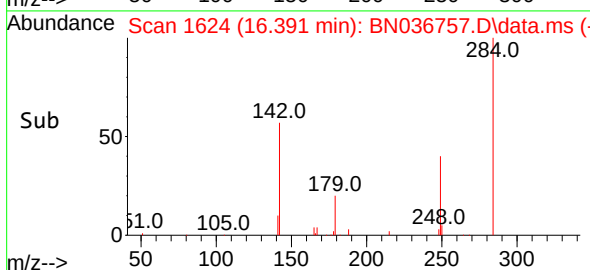
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

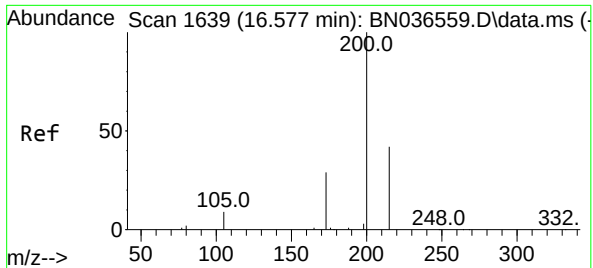


#22
Hexachlorobenzene
Concen: 0.364 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46



Tgt Ion:284 Resp: 1636
Ion Ratio Lower Upper
284 100
142 49.6 37.0 55.4
249 35.2 28.1 42.1





#23

Atrazine

Concen: 0.387 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.025 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Instrument :

BNA_N

ClientSampleId :

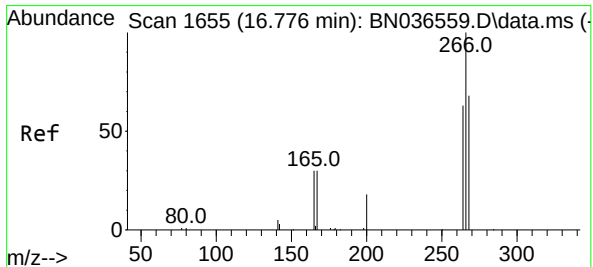
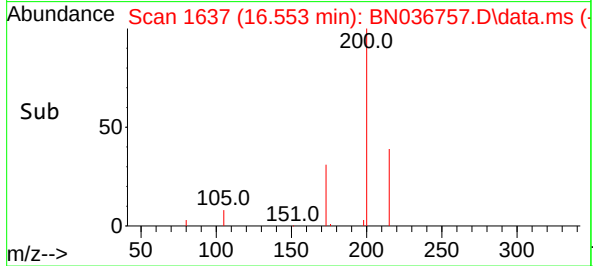
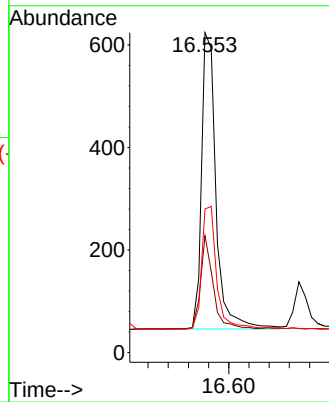
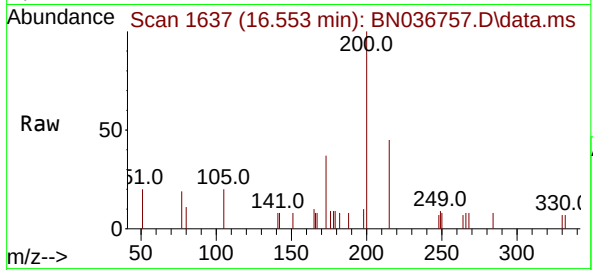
SSTDCCC0.4

Tgt Ion:	200	Resp:	1154
Ion Ratio	Lower	Upper	
200	100		
173	36.5	27.3	40.9
215	44.9	36.8	55.2

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#24

Pentachlorophenol

Concen: 0.424 ng

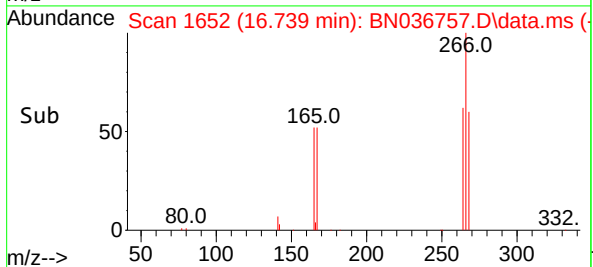
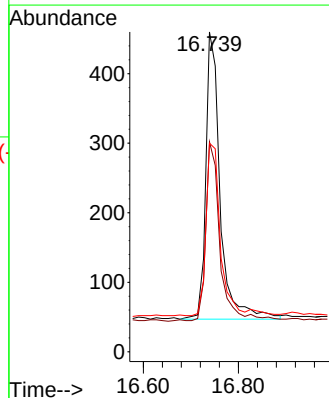
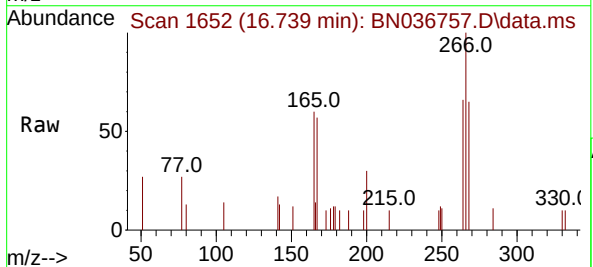
RT: 16.739 min Scan# 1652

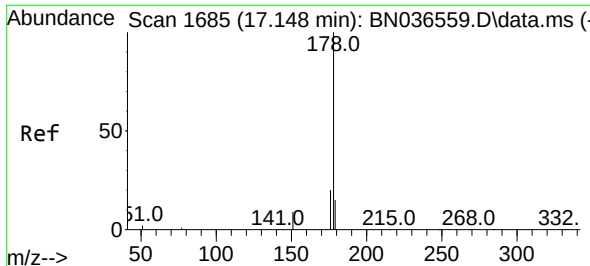
Delta R.T. -0.037 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Tgt Ion:	266	Resp:	868
Ion Ratio	Lower	Upper	
266	100		
264	62.2	49.6	74.4
268	59.4	50.9	76.3





#25

Phenanthrene

Concen: 0.386 ng

RT: 17.124 min Scan# 1683

Delta R.T. -0.025 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

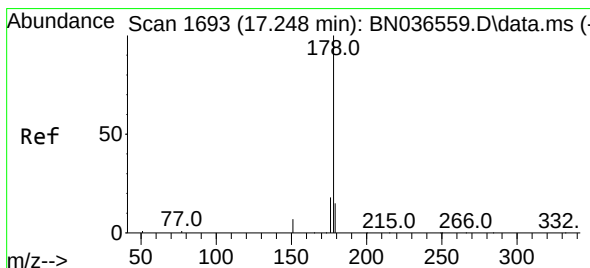
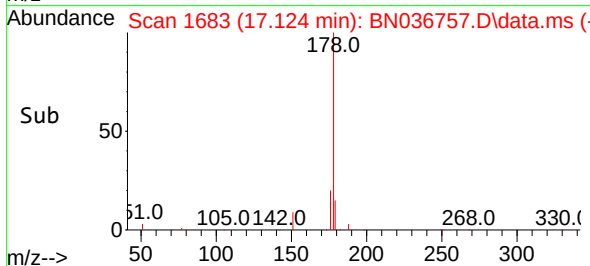
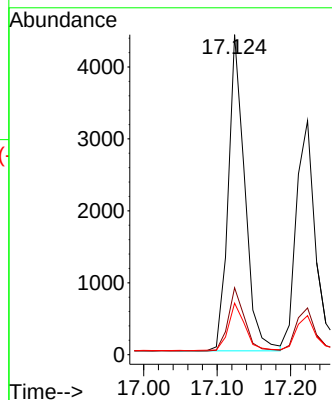
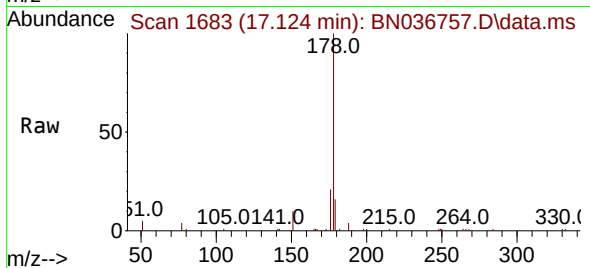
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.9	23.9
179	15.3	12.2	18.4

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Supervised By :Jagrut Upadhyay 04/01/2025

#26

Anthracene

Concen: 0.374 ng

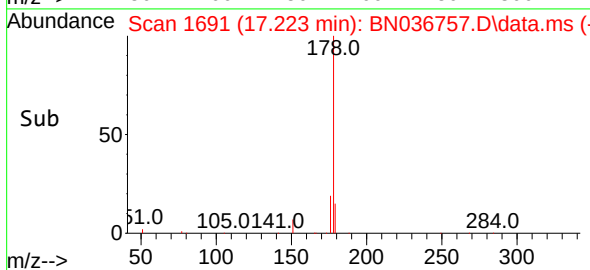
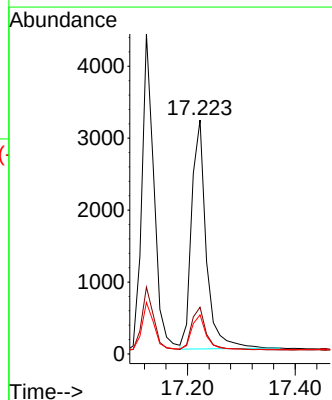
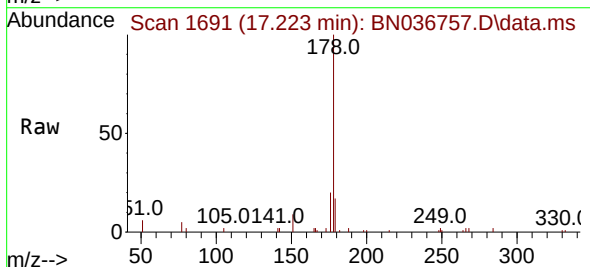
RT: 17.223 min Scan# 1691

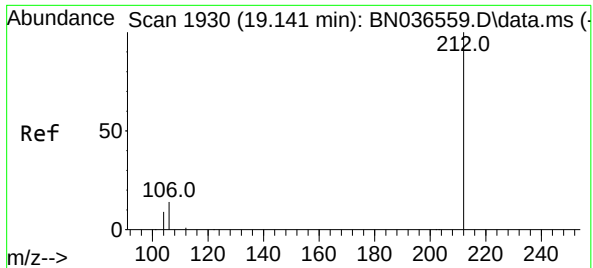
Delta R.T. -0.025 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.0	12.6	18.8





#27

Fluoranthene-d10

Concen: 0.411 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.023 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:212 Resp: 625

Ion Ratio Lower Upper

212 100

106 13.6 11.8 17.6

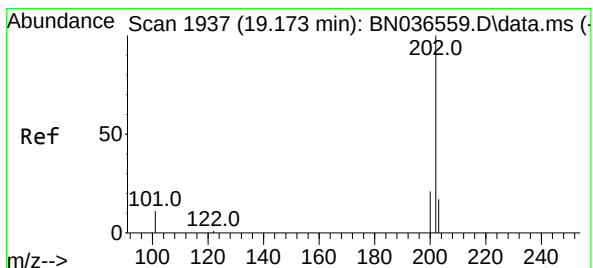
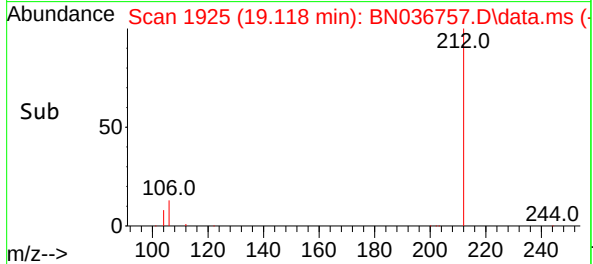
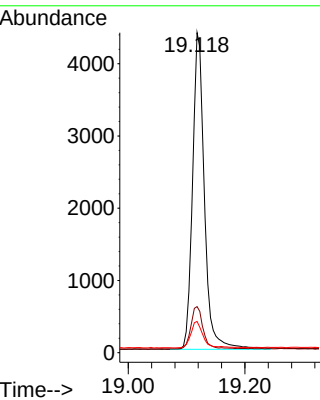
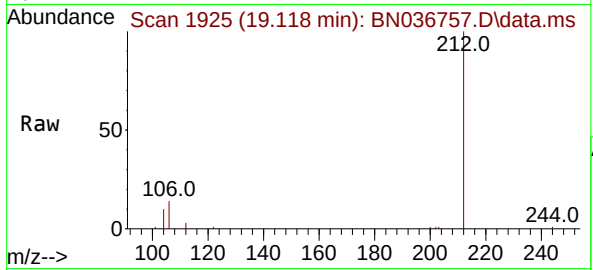
104 8.6 7.3 10.9

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#28

Fluoranthene

Concen: 0.424 ng

RT: 19.150 min Scan# 1932

Delta R.T. -0.023 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

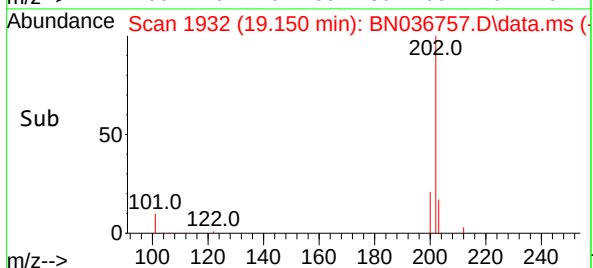
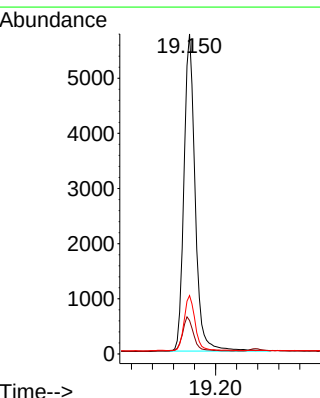
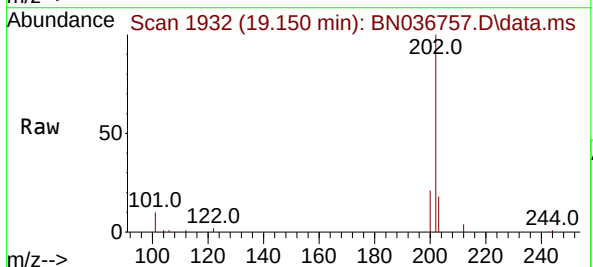
Tgt Ion:202 Resp: 8476

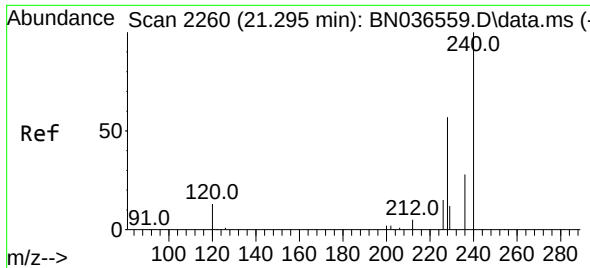
Ion Ratio Lower Upper

202 100

101 11.0 9.4 14.0

203 17.2 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Instrument :

BNA_N

ClientSampleId :

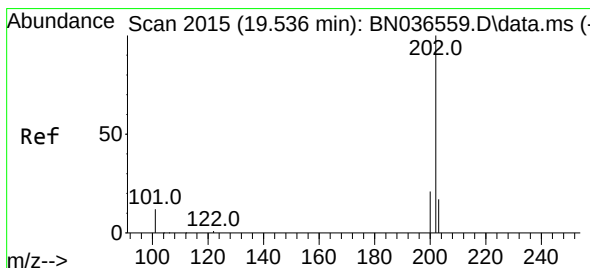
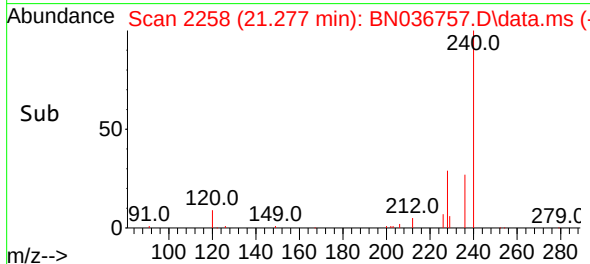
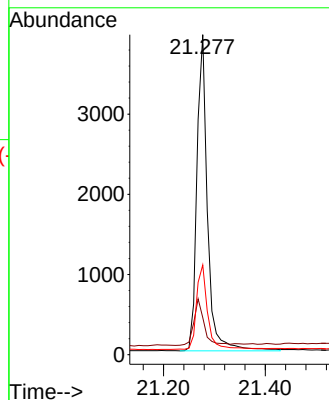
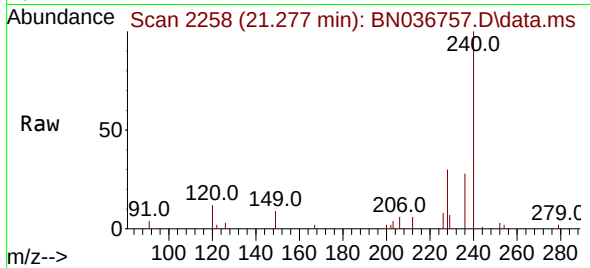
SSTDCCC0.4

Tgt Ion:	240	Resp:	5680
Ion Ratio	Lower	Upper	
240	100		
120	11.6	14.6	22.0
236	28.0	24.1	36.1

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Supervised By :Jagrut Upadhyay 04/01/2025



#30

Pyrene

Concen: 0.325 ng

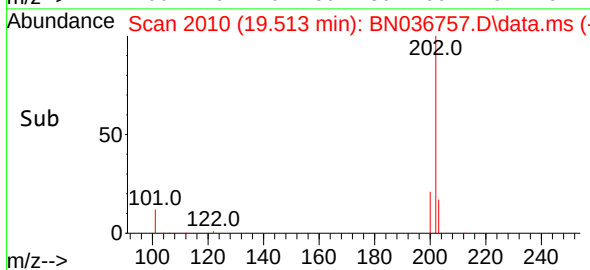
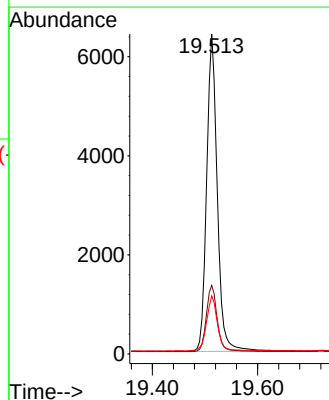
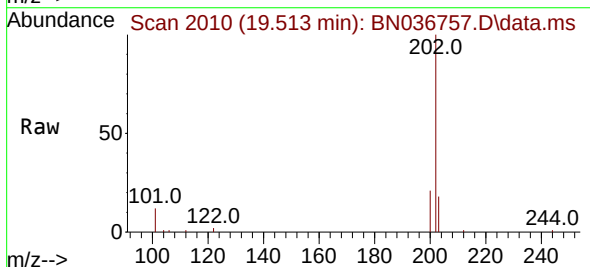
RT: 19.513 min Scan# 2010

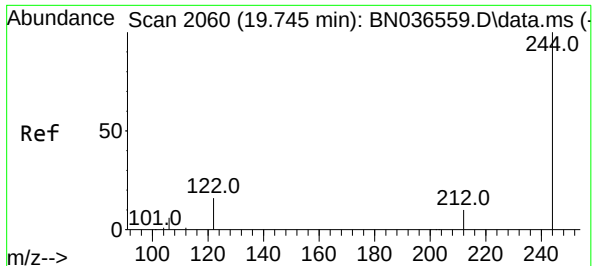
Delta R.T. -0.023 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Tgt Ion:	202	Resp:	9024
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.1	25.7
203	17.5	14.1	21.1





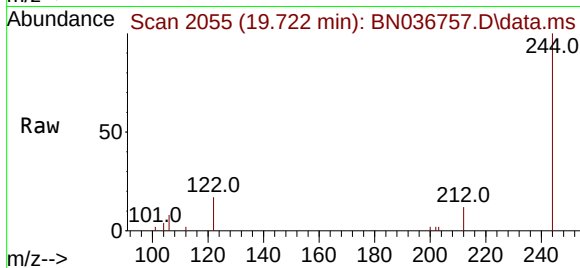
#31
Terphenyl-d14
Concen: 0.313 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Instrument :

BNA_N

ClientSampleId :

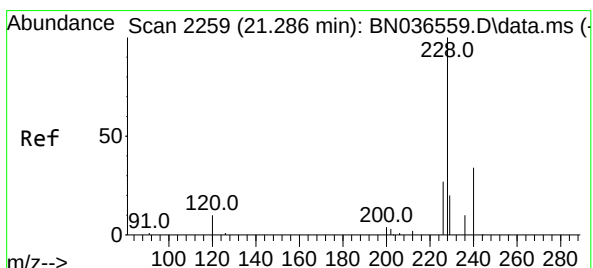
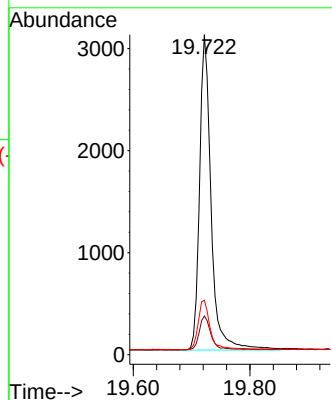
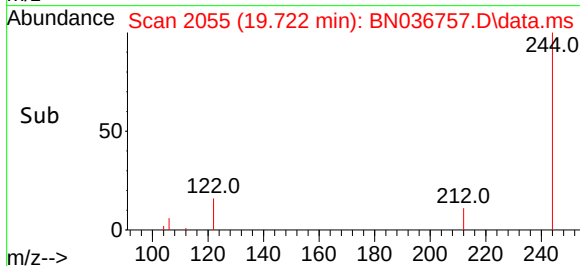
SSTDCCC0.4



Tgt Ion:244 Resp: 4254
Ion Ratio Lower Upper
244 100
212 12.1 9.6 14.4
122 17.0 13.9 20.9

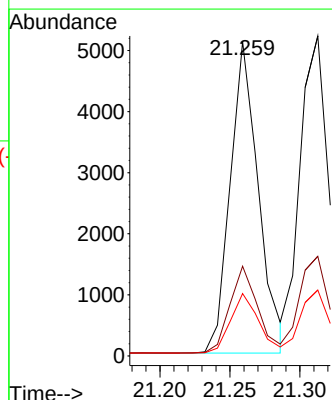
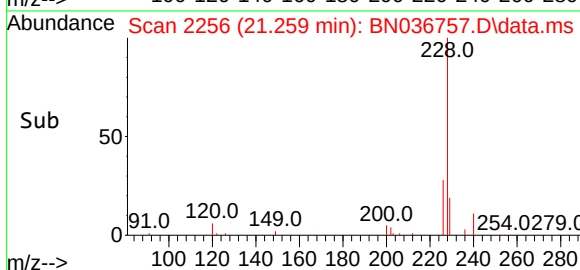
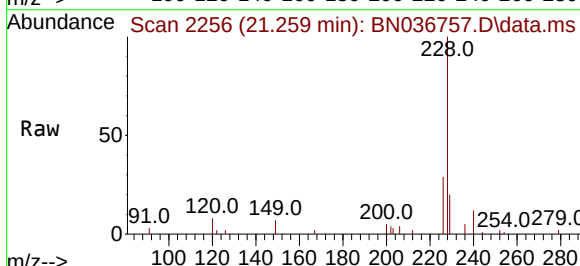
Manual Integrations
APPROVED

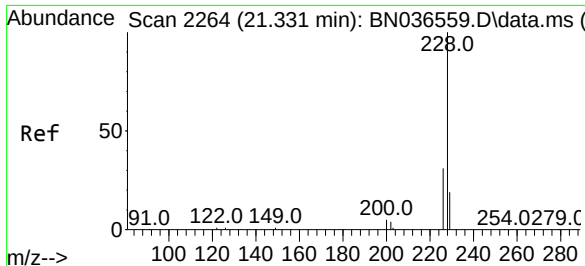
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#32
Benzo(a)anthracene
Concen: 0.362 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:228 Resp: 7146
Ion Ratio Lower Upper
228 100
226 28.5 22.5 33.7
229 19.8 16.6 25.0





#33

Chrysene

Concen: 0.383 ng

RT: 21.313 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

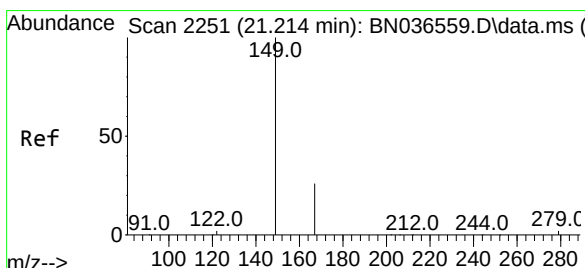
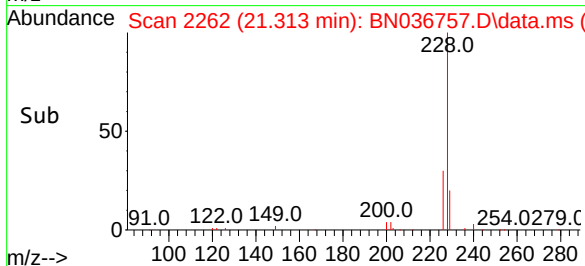
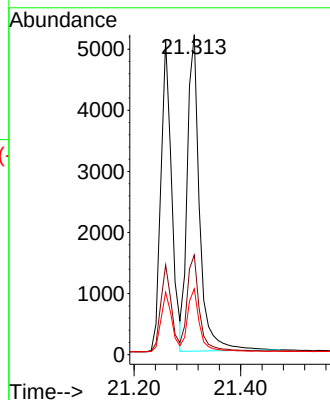
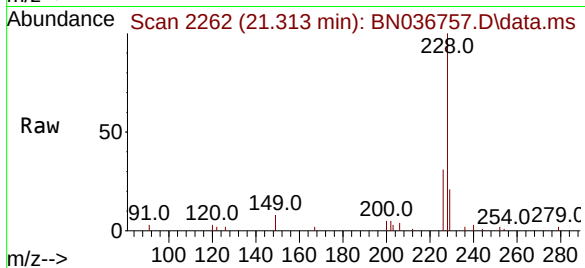
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:	228	Resp:	827
Ion Ratio	Lower	Upper	
228	100		
226	31.1	25.3	37.9
229	20.6	15.8	23.8

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.386 ng

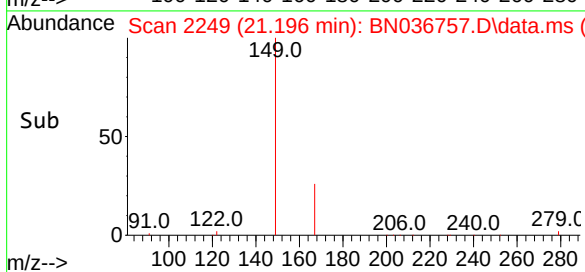
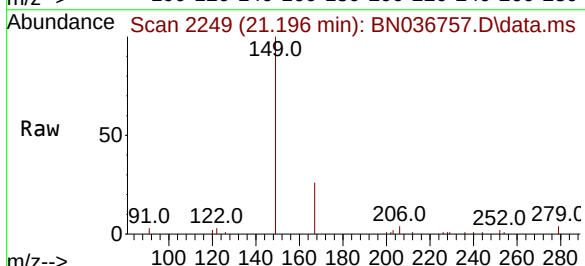
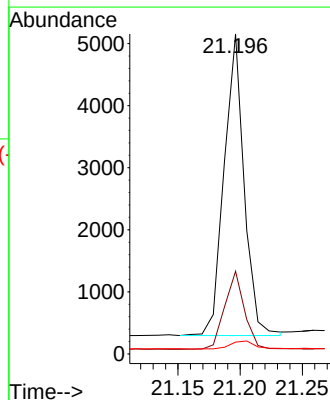
RT: 21.196 min Scan# 2249

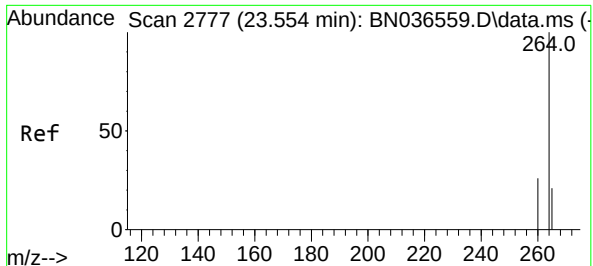
Delta R.T. -0.018 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Tgt Ion:	149	Resp:	5431
Ion Ratio	Lower	Upper	
149	100		
167	25.8	20.7	31.1
279	3.4	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.519 min Scan# 21

Delta R.T. -0.035 min

Lab File: BN036757.D

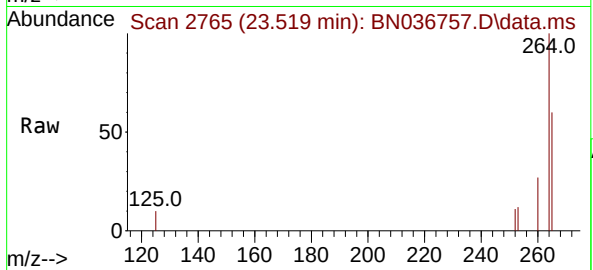
Acq: 28 Mar 2025 03:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:264 Resp: 5140

Ion Ratio Lower Upper

264 100

260 26.8 22.6 33.8

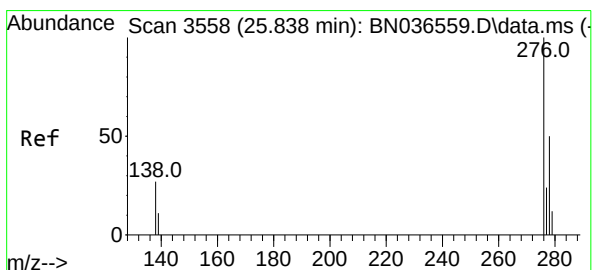
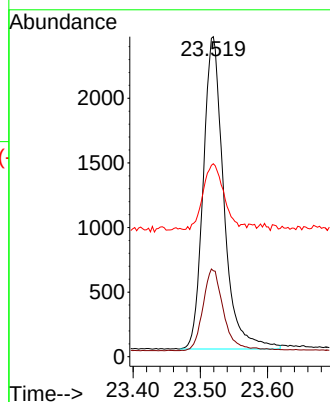
265 60.3 88.1 132.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/28/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.394 ng

RT: 25.782 min Scan# 3539

Delta R.T. -0.055 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

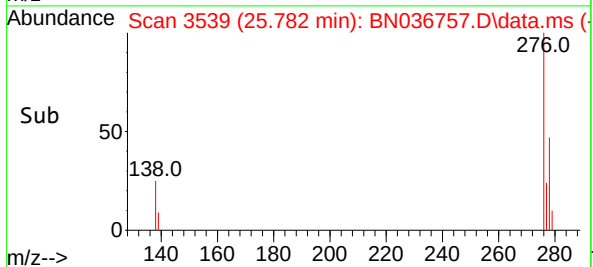
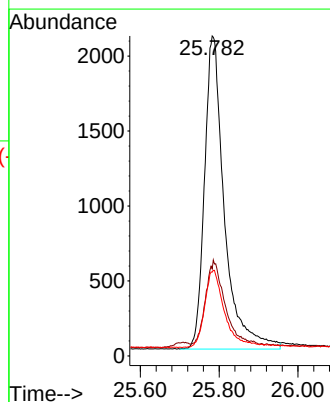
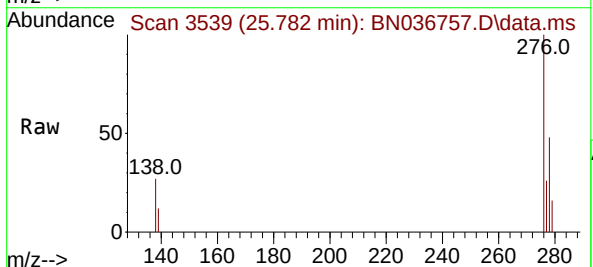
Tgt Ion:276 Resp: 7314

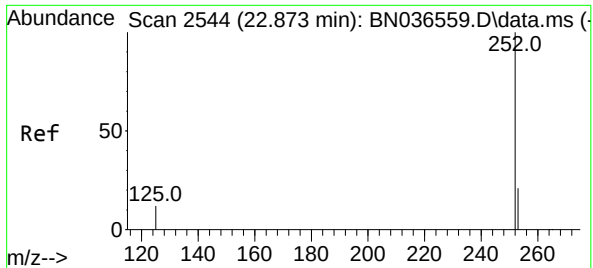
Ion Ratio Lower Upper

276 100

138 24.9 23.4 35.2

277 24.6 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.841 min Scan# 2533

Delta R.T. -0.032 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Instrument :

BNA_N

ClientSampleId :

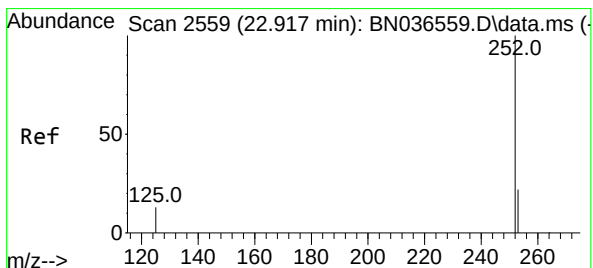
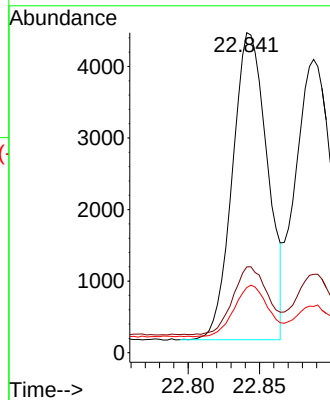
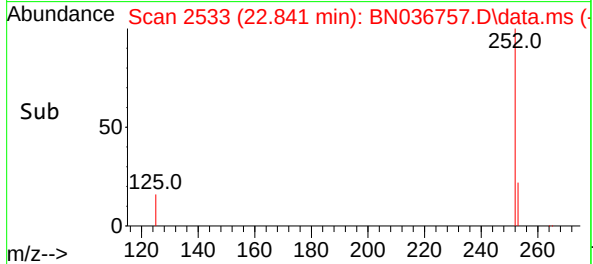
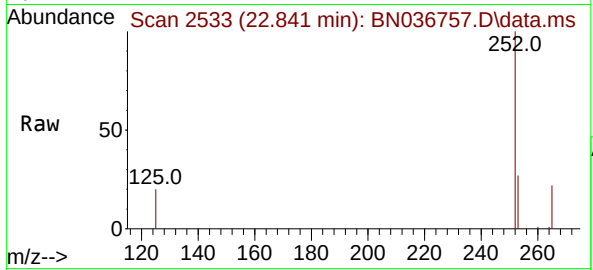
SSTDCCC0.4

Tgt Ion:252	Resp:	729
Ion Ratio	Lower	Upper
252	100	
253	26.8	23.9 35.9
125	20.4	17.4 26.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#38

Benzo(k)fluoranthene

Concen: 0.395 ng m

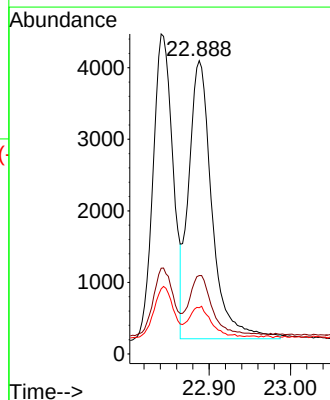
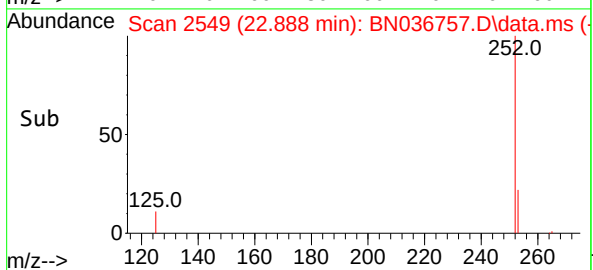
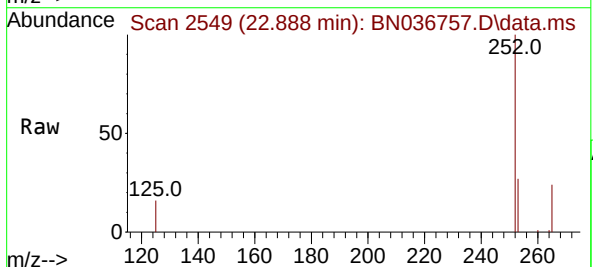
RT: 22.888 min Scan# 2549

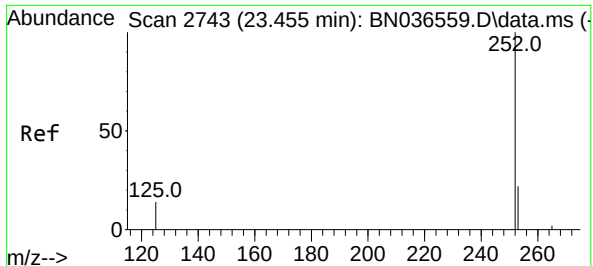
Delta R.T. -0.029 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Tgt Ion:252	Resp:	7751
Ion Ratio	Lower	Upper
252	100	
253	26.7	24.6 36.8
125	15.8	17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.399 ng

RT: 23.420 min Scan# 21

Delta R.T. -0.035 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

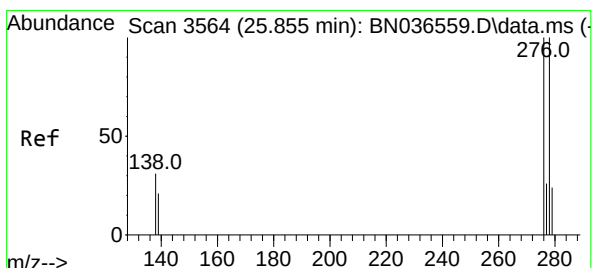
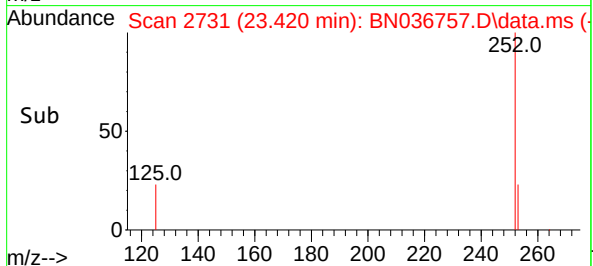
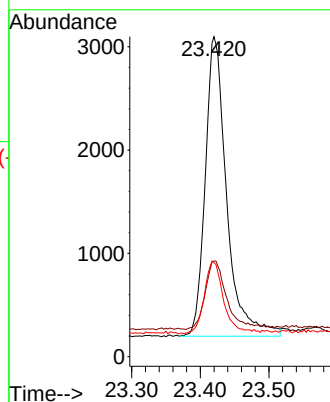
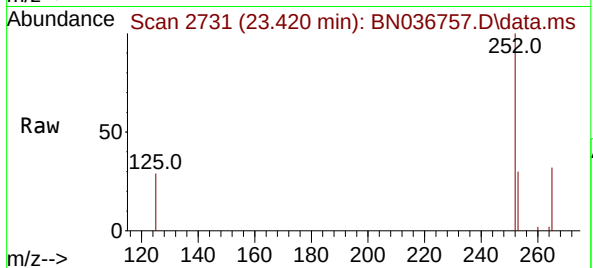
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:	252	Resp:	629
Ion Ratio	Lower	Upper	
252	100		
253	29.9	27.8	41.8
125	29.4	22.7	34.1

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

#40

Dibenzo(a,h)anthracene

Concen: 0.382 ng

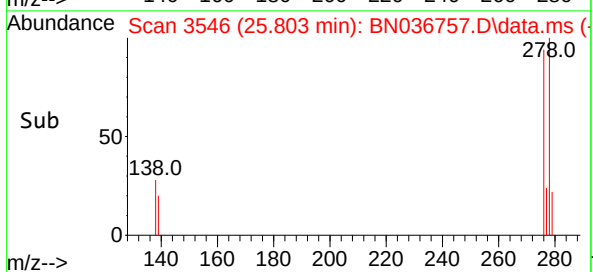
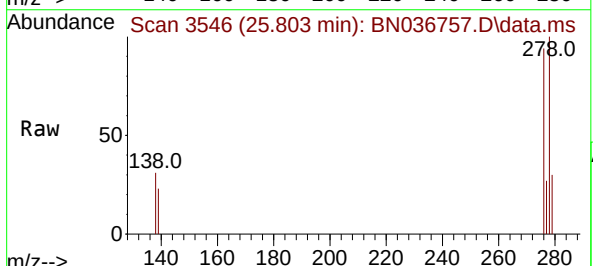
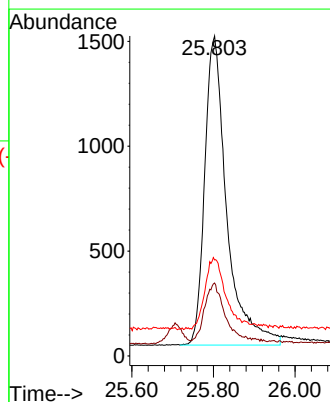
RT: 25.803 min Scan# 3546

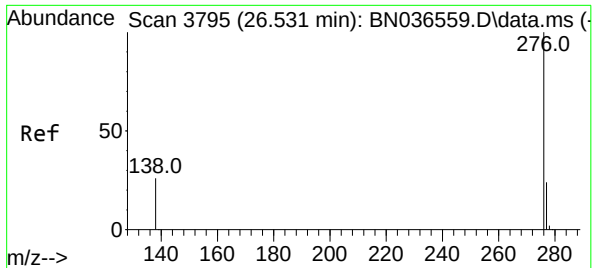
Delta R.T. -0.052 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Tgt Ion:	278	Resp:	5522
Ion Ratio	Lower	Upper	
278	100		
139	22.8	20.8	31.2
279	30.0	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.386 ng

RT: 26.475 min Scan# 31

Delta R.T. -0.055 min

Lab File: BN036757.D

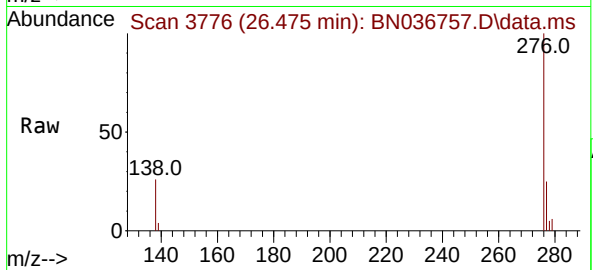
Acq: 28 Mar 2025 03:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion: 276 Resp: 6370

Ion Ratio Lower Upper

276 100

277 25.1 22.2 33.4

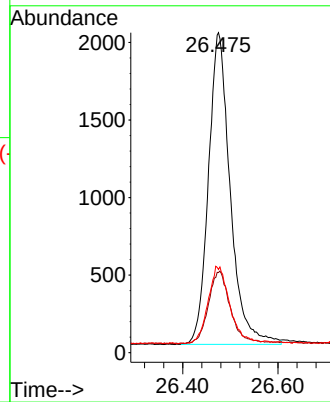
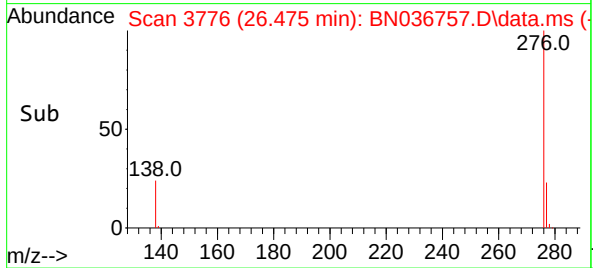
138 26.0 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/28/2025

Supervised By :Jagrut Upadhyay 04/01/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	89	-0.02
2	1,4-Dioxane	0.444	0.442	0.5	79	-0.01
3	n-Nitrosodimethylamine	0.898	0.879	2.1	84	-0.01
4 S	2-Fluorophenol	0.932	0.782	16.1	71	-0.02
5 S	Phenol-d6	1.152	0.986	14.4	78	-0.03
6	bis(2-Chloroethyl)ether	1.190	1.050	11.8	79	-0.03
7 I	Naphthalene-d8	1.000	1.000	0.0	90	-0.02
8 S	Nitrobenzene-d5	0.435	0.370	14.9	81	-0.02
9	Naphthalene	1.177	1.056	10.3	79	-0.03
10	Hexachlorobutadiene	0.277	0.247	10.8	76	-0.02
11 SURR	2-Methylnaphthalene-d10	0.595	0.509	14.5	76	-0.03
12	2-Methylnaphthalene	0.749	0.662	11.6	78	-0.03
13 I	Acenaphthene-d10	1.000	1.000	0.0	91	-0.03
14 S	2,4,6-Tribromophenol	0.182	0.184	-1.1	89	-0.02
15 S	2-Fluorobiphenyl	2.327	2.013	13.5	76	-0.03
16	Acenaphthylene	1.888	1.702	9.9	80	-0.02
17	Acenaphthene	1.236	1.136	8.1	81	-0.03
18	Fluorene	1.672	1.550	7.3	80	-0.02
19 I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.02
20	4,6-Dinitro-2-methylphenol	0.086	0.080	7.0	102	-0.02
21	4-Bromophenyl-phenylether	0.251	0.233	7.2	84	-0.02
22	Hexachlorobenzene	0.303	0.276	8.9	81	-0.02
23	Atrazine	0.201	0.194	3.5	90	-0.02
24	Pentachlorophenol	0.138	0.146	-5.8	106	-0.04
25	Phenanthrene	1.200	1.156	3.7	88	-0.02
26	Anthracene	1.083	1.013	6.5	87	-0.02
27 SURR	Fluoranthene-d10	1.025	1.053	-2.7	93	-0.02
28	Fluoranthene	1.348	1.428	-5.9	97	-0.02
29 I	Chrysene-d12	1.000	1.000	0.0	138	-0.02
30	Pyrene	1.956	1.589	18.8	103	-0.02
31 S	Terphenyl-d14	0.958	0.749	21.8	101	-0.02
32	Benzo(a)anthracene	1.391	1.258	9.6	121	-0.03
33	Chrysene	1.520	1.456	4.2	125	-0.02
34	Bis(2-ethylhexyl)phthalate	0.990	0.956	3.4	127	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	145	-0.03
36	Indeno(1,2,3-cd)pyrene	1.444	1.423	1.5	134	-0.06
37	Benzo(b)fluoranthene	1.456	1.419	2.5	133	-0.03
38	Benzo(k)fluoranthene	1.527	1.508	1.2	135	-0.03
39 C	Benzo(a)pyrene	1.226	1.224	0.2	136	-0.03
40	Dibenzo(a,h)anthracene	1.124	1.074	4.4	134	-0.05
41	Benzo(g,h,i)perylene	1.286	1.240	3.6	130	-0.06

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	89	-0.02
2	1,4-Dioxane	0.400	0.399	0.3	79	-0.01
3	n-Nitrosodimethylamine	0.400	0.392	2.0	84	-0.01
4 S	2-Fluorophenol	0.400	0.335	16.3	71	-0.02
5 S	Phenol-d6	0.400	0.343	14.2	78	-0.03
6	bis(2-Chloroethyl)ether	0.400	0.353	11.8	79	-0.03
7 I	Naphthalene-d8	0.400	0.400	0.0	90	-0.02
8 S	Nitrobenzene-d5	0.400	0.340	15.0	81	-0.02
9	Naphthalene	0.400	0.359	10.3	79	-0.03
10	Hexachlorobutadiene	0.400	0.357	10.8	76	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.342	14.5	76	-0.03
12	2-Methylnaphthalene	0.400	0.354	11.5	78	-0.03
13 I	Acenaphthene-d10	0.400	0.400	0.0	91	-0.03
14 S	2,4,6-Tribromophenol	0.400	0.406	-1.5	89	-0.02
15 S	2-Fluorobiphenyl	0.400	0.346	13.5	76	-0.03
16	Acenaphthylene	0.400	0.361	9.8	80	-0.02
17	Acenaphthene	0.400	0.368	8.0	81	-0.03
18	Fluorene	0.400	0.371	7.3	80	-0.02
19 I	Phenanthrene-d10	0.400	0.400	0.0	99	-0.02
20	4,6-Dinitro-2-methylphenol	0.400	0.457	-14.2	102	-0.02
21	4-Bromophenyl-phenylether	0.400	0.372	7.0	84	-0.02
22	Hexachlorobenzene	0.400	0.364	9.0	81	-0.02
23	Atrazine	0.400	0.387	3.3	90	-0.02
24	Pentachlorophenol	0.400	0.424	-6.0	106	-0.04
25	Phenanthrene	0.400	0.386	3.5	88	-0.02
26	Anthracene	0.400	0.374	6.5	87	-0.02
27 SURR	Fluoranthene-d10	0.400	0.411	-2.7	93	-0.02
28	Fluoranthene	0.400	0.424	-6.0	97	-0.02
29 I	Chrysene-d12	0.400	0.400	0.0	138	-0.02
30	Pyrene	0.400	0.325	18.8	103	-0.02
31 S	Terphenyl-d14	0.400	0.313	21.8	101	-0.02
32	Benzo(a)anthracene	0.400	0.362	9.5	121	-0.03
33	Chrysene	0.400	0.383	4.3	125	-0.02
34	Bis(2-ethylhexyl)phthalate	0.400	0.386	3.5	127	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	145	-0.03
36	Indeno(1,2,3-cd)pyrene	0.400	0.394	1.5	134	-0.06
37	Benzo(b)fluoranthene	0.400	0.390	2.5	133	-0.03
38	Benzo(k)fluoranthene	0.400	0.395	1.3	135	-0.03
39 C	Benzo(a)pyrene	0.400	0.399	0.3	136	-0.03
40	Dibenzo(a,h)anthracene	0.400	0.382	4.5	134	-0.05
41	Benzo(g,h,i)perylene	0.400	0.386	3.5	130	-0.06

(#) = 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.: Q1620 SAS No.: Q1620 SDG No.: Q1620

Instrument ID: BNA_N Calibration Date/Time: 03/28/2025 13:58

Lab File ID: BN036771.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.540		-9.2	50.0
Fluoranthene-d10	1.025	1.012		-1.3	50.0
2-Fluorophenol	0.932	0.846		-9.2	50.0
Phenol-d6	1.152	1.010		-12.3	50.0
Nitrobenzene-d5	0.435	0.354		-18.6	50.0
2-Fluorobiphenyl	2.327	2.021		-13.1	50.0
2,4,6-Tribromophenol	0.182	0.177		-2.7	50.0
Terphenyl-d14	0.958	0.816		-14.8	50.0
1,4-Dioxane	0.444	0.460		3.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
 Data File : BN036771.D
 Acq On : 28 Mar 2025 13:58
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/31/2025
 Supervised By :Jagrut Upadhyay 04/01/2025

Quant Time: Mar 28 14:23:03 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1636	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	4177	0.400	ng	#-0.02
13) Acenaphthene-d10	14.334	164	2615	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	5571	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	4555	0.400	ng	#-0.02
35) Perylene-d12	23.516	264	4167	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1384	0.363	ng	-0.02
5) Phenol-d6	6.872	99	1653	0.351	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1480	0.326	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2256	0.363	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	464	0.391	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	5285	0.347	ng	-0.03
27) Fluoranthene-d10	19.118	212	5637	0.395	ng	-0.02
31) Terphenyl-d14	19.722	244	3716	0.341	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.225	88	752	0.414	ng	97
3) n-Nitrosodimethylamine	3.535	42	1423	0.388	ng	97
6) bis(2-Chloroethyl)ether	7.125	93	1671	0.343	ng	98
9) Naphthalene	10.530	128	4359	0.355	ng	98
10) Hexachlorobutadiene	10.818	225	1044	0.361	ng	# 99
12) 2-Methylnaphthalene	12.156	142	2874	0.368	ng	98
16) Acenaphthylene	14.056	152	4358	0.353	ng	99
17) Acenaphthene	14.398	154	2946	0.365	ng	100
18) Fluorene	15.393	166	4111	0.376	ng	98
20) 4,6-Dinitro-2-methylph...	15.478	198	428	0.446	ng	87
21) 4-Bromophenyl-phenylether	16.280	248	1300	0.372	ng	96
22) Hexachlorobenzene	16.391	284	1537	0.365	ng	96
23) Atrazine	16.553	200	1063	0.380	ng	97
24) Pentachlorophenol	16.739	266	702	0.365	ng	95
25) Phenanthrene	17.124	178	6367	0.381	ng	99
26) Anthracene	17.223	178	5569	0.369	ng	100
28) Fluoranthene	19.150	202	7617	0.406	ng	99
30) Pyrene	19.513	202	7795	0.350	ng	99
32) Benzo(a)anthracene	21.259	228	5566	0.351	ng	99
33) Chrysene	21.313	228	6726	0.389	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	3968	0.352	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.782	276	5233	0.348	ng	96
37) Benzo(b)fluoranthene	22.844	252	5720	0.377	ng	97
38) Benzo(k)fluoranthene	22.888	252	5791m	0.364	ng	
39) Benzo(a)pyrene	23.420	252	4867	0.381	ng	96
40) Dibenzo(a,h)anthracene	25.800	278	3914	0.334	ng	96
41) Benzo(g,h,i)perylene	26.475	276	4758	0.355	ng	95

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

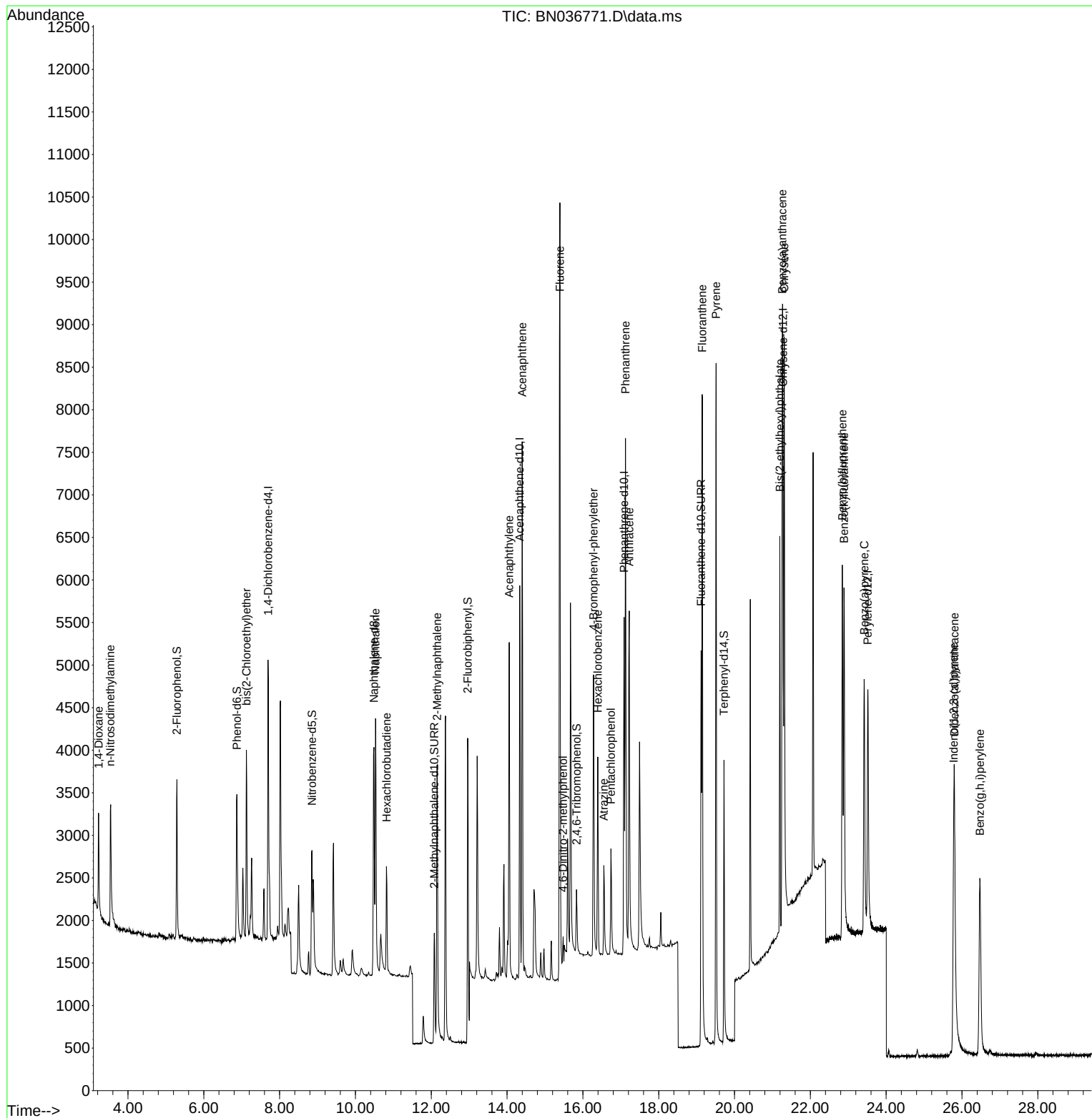
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Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

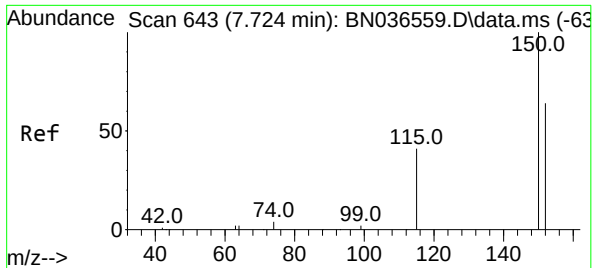
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

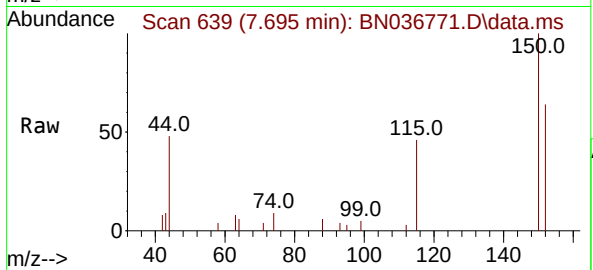
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 61
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

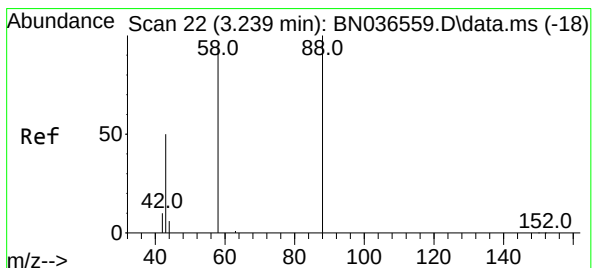
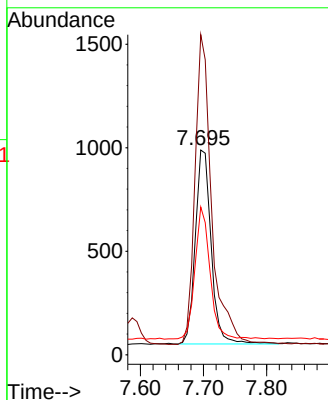
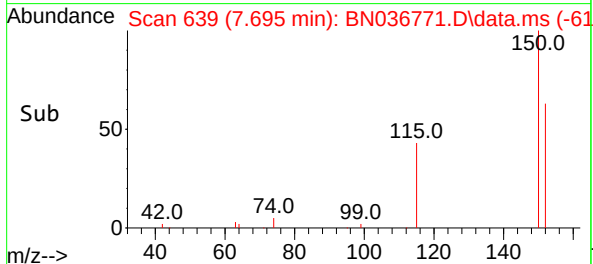
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 152 Resp: 1630
Ion Ratio Lower Upper
152 100
150 156.3 123.7 185.5
115 72.2 54.3 81.5

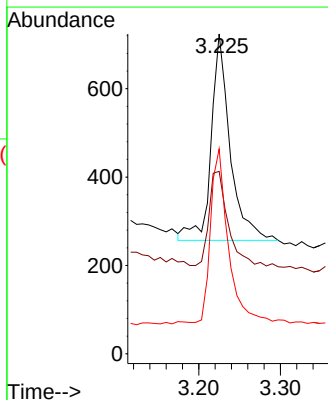
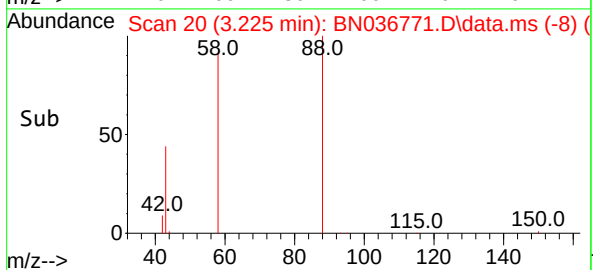
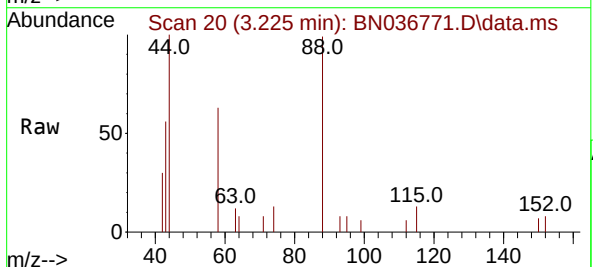
Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

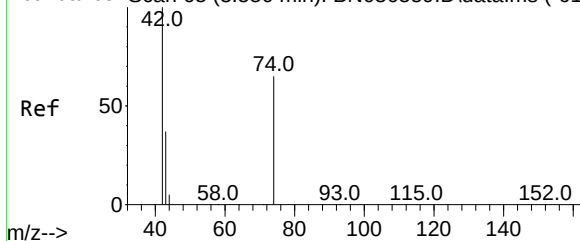


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

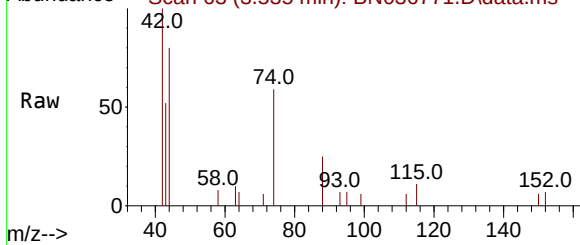
Tgt Ion: 88 Resp: 752
Ion Ratio Lower Upper
88 100
43 47.5 37.8 56.8
58 80.9 67.4 101.2



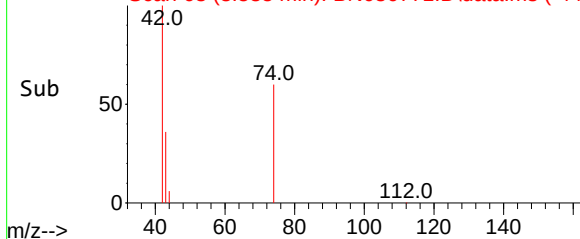
Abundance Scan 65 (3.550 min): BN036559.D\data.ms (-61)



Abundance Scan 63 (3.535 min): BN036771.D\data.ms



Abundance Scan 63 (3.535 min): BN036771.D\data.ms (-44)



#3

n-Nitrosodimethylamine

Concen: 0.388 ng

RT: 3.535 min Scan# 61

Delta R.T. -0.014 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

Tgt Ion: 42 Resp: 142

Ion Ratio Lower Upper

42 100

74 72.9 60.6 90.8

44 6.7 6.3 9.5

Instrument :

BNA_N

ClientSampleId :

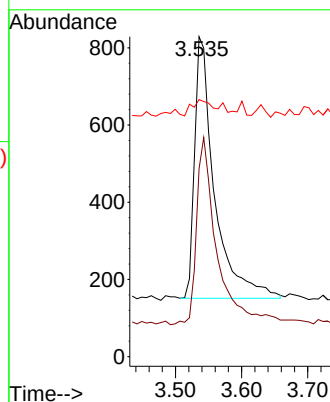
SSTDCCC0.4EC

Manual Integrations

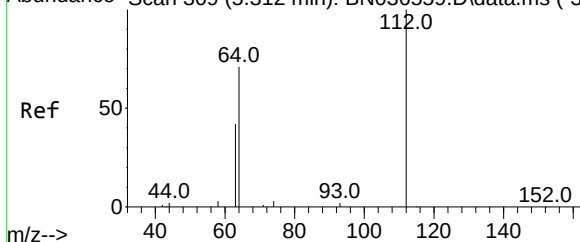
APPROVED

Reviewed By :Anahy Claudio 03/31/2025

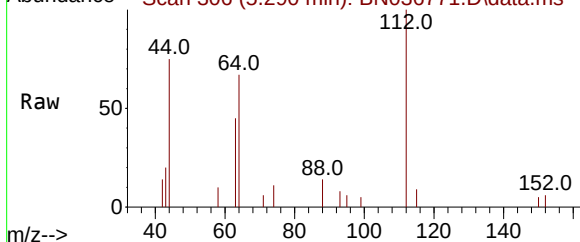
Supervised By :Jagrut Upadhyay 04/01/2025



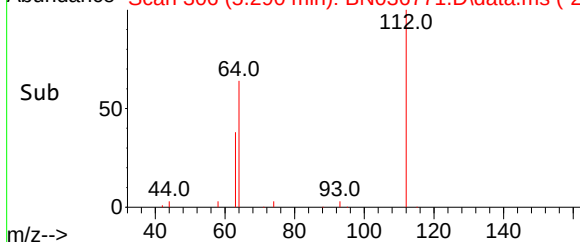
Abundance Scan 309 (5.312 min): BN036559.D\data.ms (-30)



Abundance Scan 306 (5.290 min): BN036771.D\data.ms



Abundance Scan 306 (5.290 min): BN036771.D\data.ms (-28)



#4

2-Fluorophenol

Concen: 0.363 ng

RT: 5.290 min Scan# 306

Delta R.T. -0.022 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

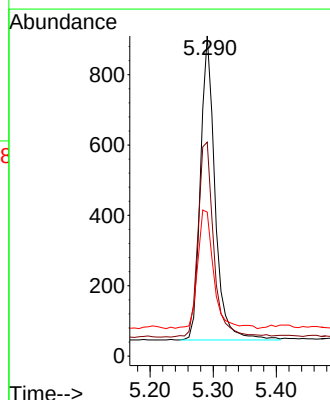
Tgt Ion:112 Resp: 1384

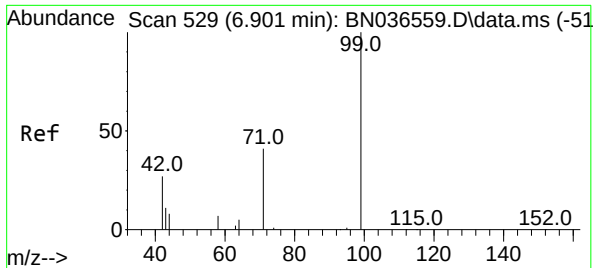
Ion Ratio Lower Upper

112 100

64 69.4 53.1 79.7

63 42.8 31.8 47.8





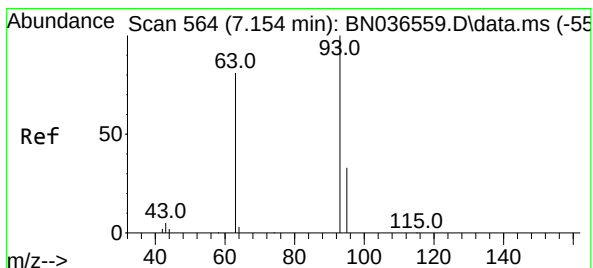
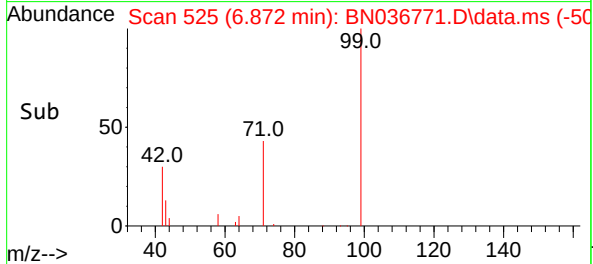
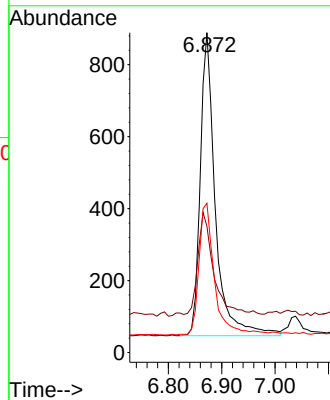
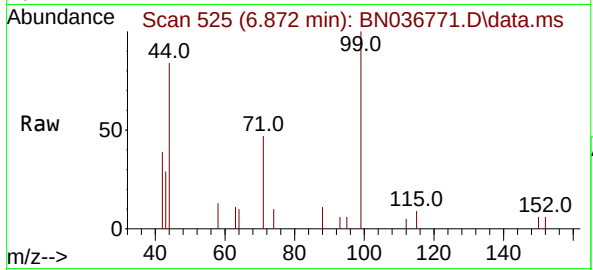
#5
Phenol-d6
Concen: 0.351 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 165
Ion Ratio Lower Upper
99 100
42 37.9 26.5 39.7
71 45.1 34.1 51.1

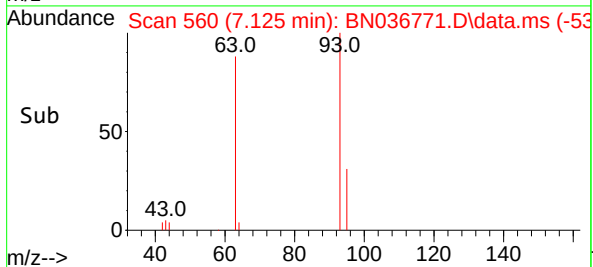
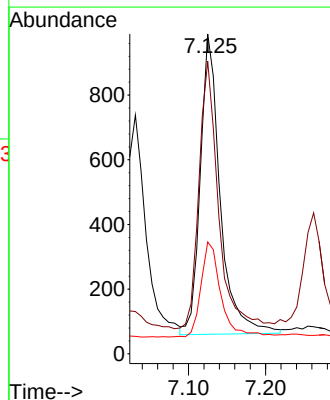
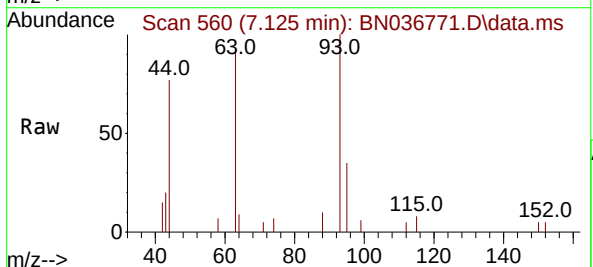
Manual Integrations
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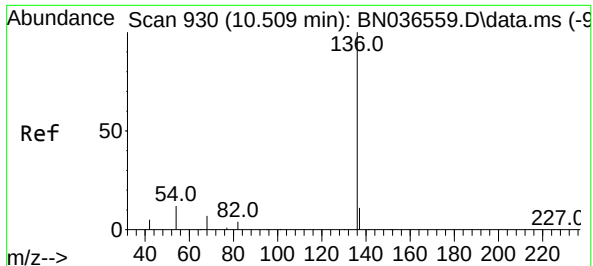
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.343 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

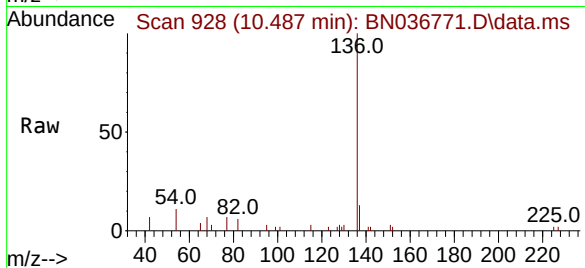
Tgt Ion: 93 Resp: 1671
Ion Ratio Lower Upper
93 100
63 87.3 67.7 101.5
95 31.8 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

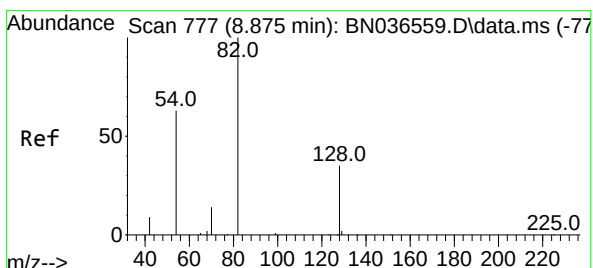
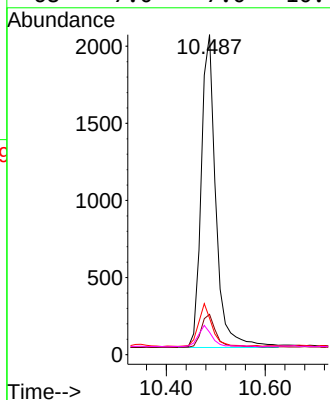
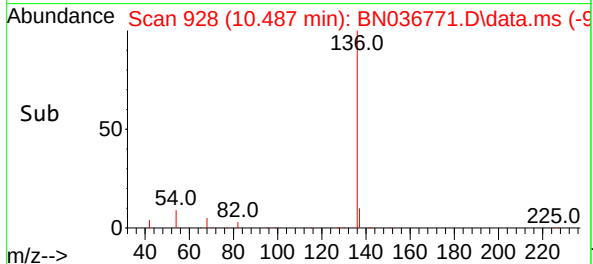
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:136 Resp: 417
Ion Ratio Lower Upper
136 100
137 12.6 10.3 15.5
54 11.4 11.5 17.3
68 7.0 7.0 10.4

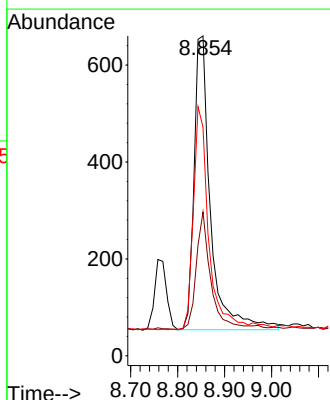
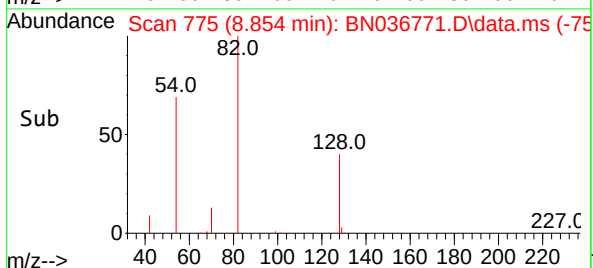
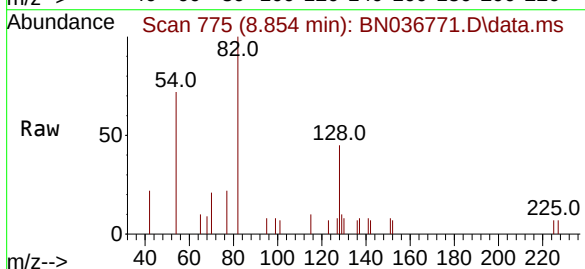
Manual Integrations
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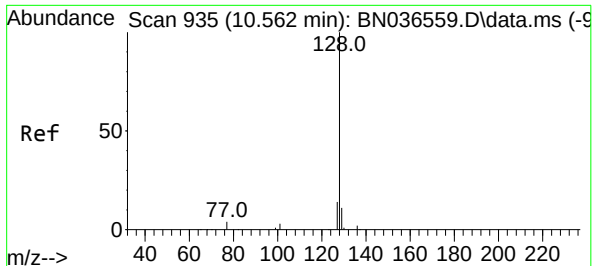
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#8
Nitrobenzene-d5
Concen: 0.326 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 82 Resp: 1480
Ion Ratio Lower Upper
82 100
128 45.0 30.6 45.8
54 71.5 52.2 78.4





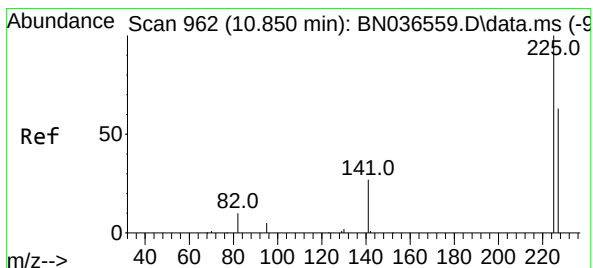
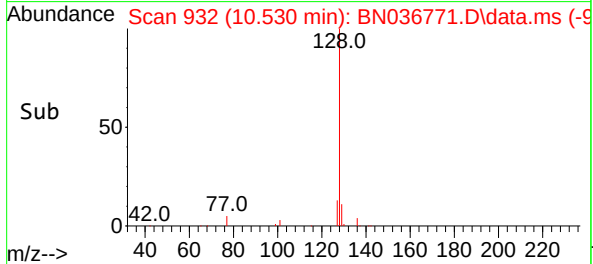
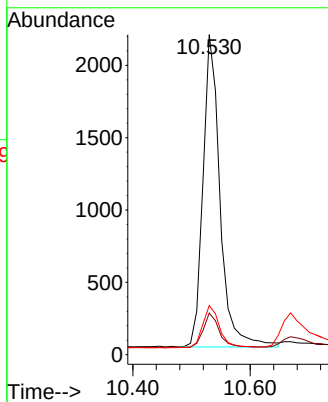
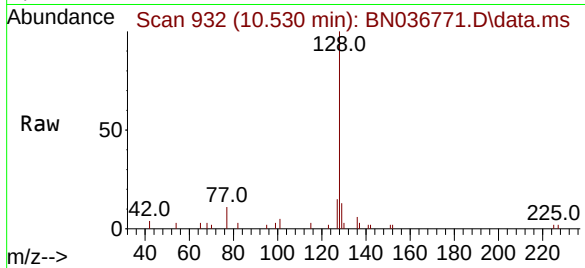
#9
Naphthalene
Concen: 0.355 ng
RT: 10.530 min Scan# 910
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 435
Ion Ratio Lower Upper
128 100
129 13.0 9.8 14.6
127 15.4 11.8 17.8

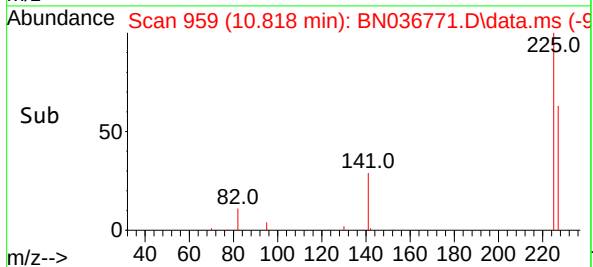
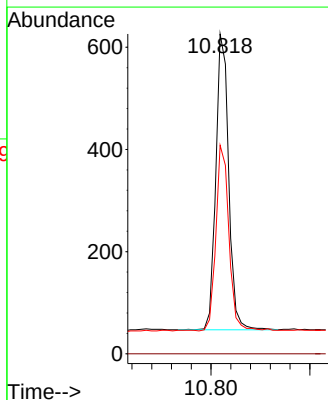
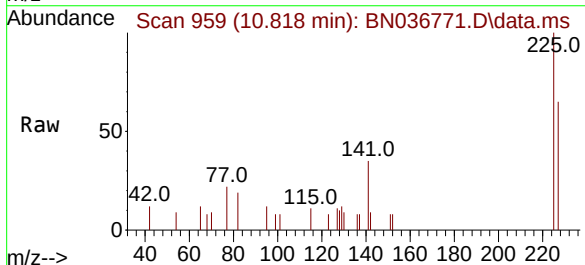
Manual Integrations
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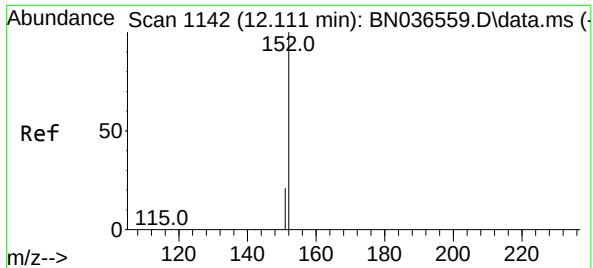
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#10
Hexachlorobutadiene
Concen: 0.361 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

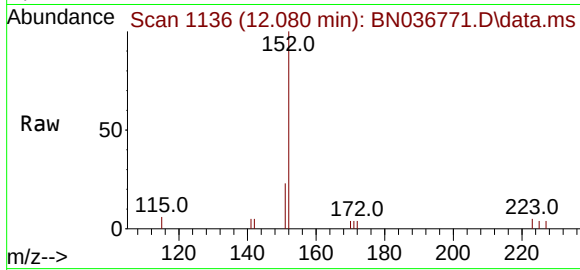
Tgt Ion:225 Resp: 1044
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.8 77.8





#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.080 min Scan# 1142
Delta R.T. -0.030 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

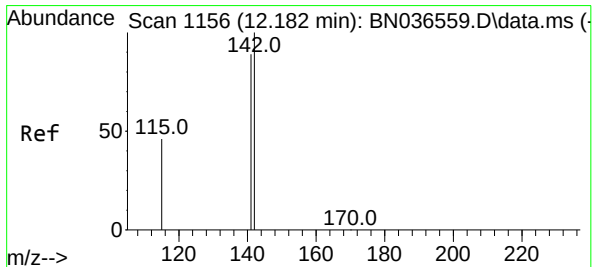
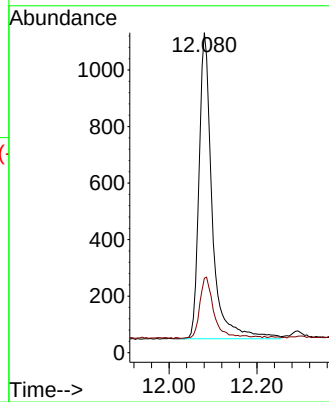
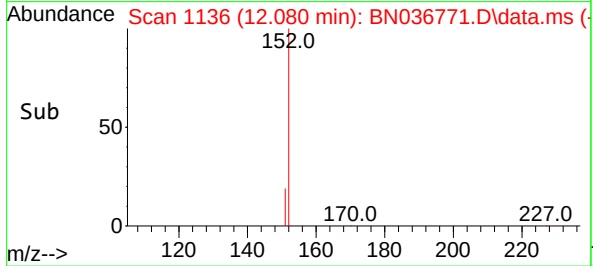
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 2250
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6

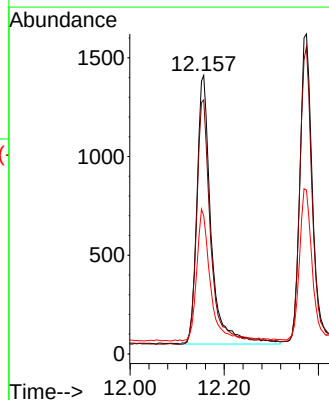
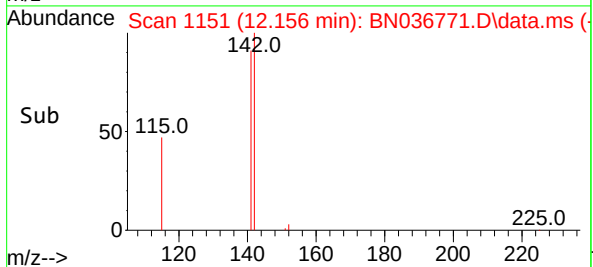
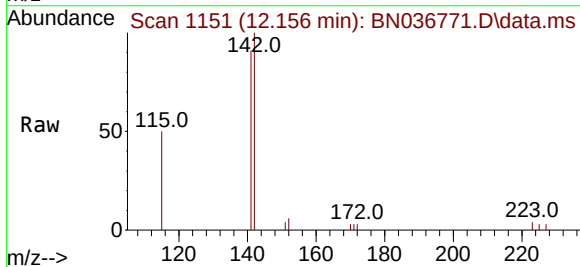
Manual Integrations
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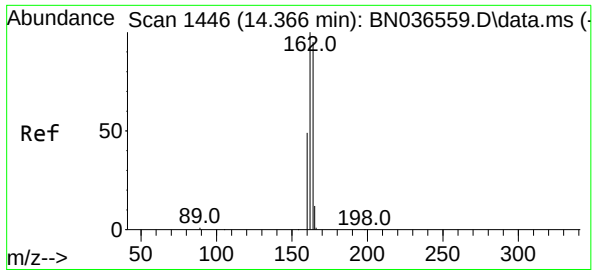
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

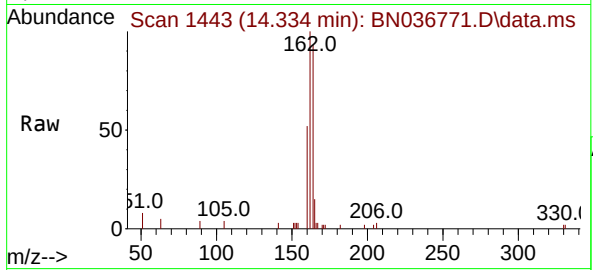
Tgt Ion:142 Resp: 2874
Ion Ratio Lower Upper
142 100
141 91.2 71.7 107.5
115 49.5 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

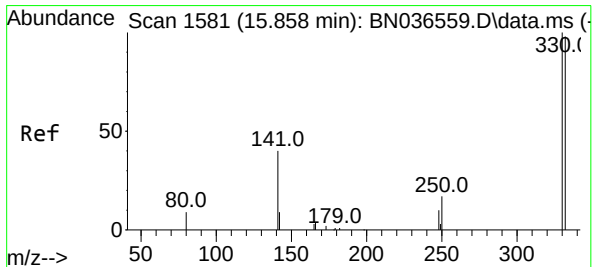
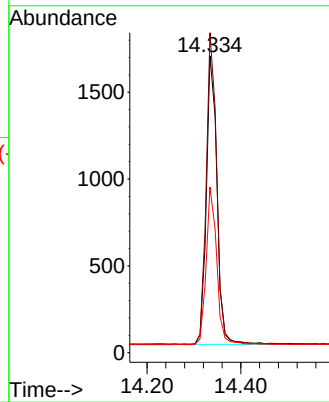
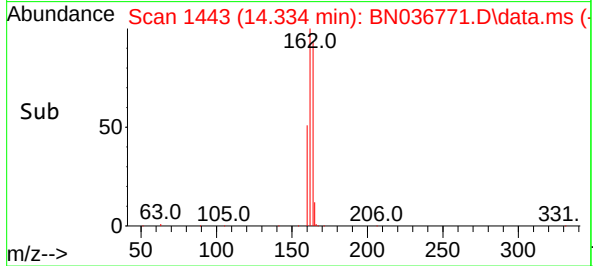
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



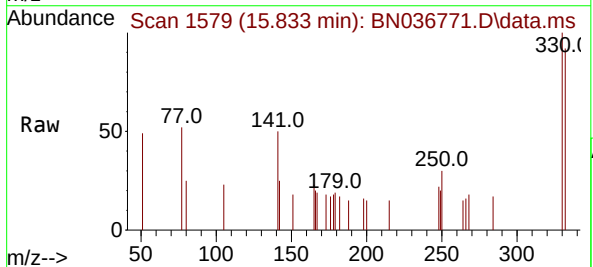
Tgt Ion:164 Resp: 261
Ion Ratio Lower Upper
164 100
162 107.8 84.2 126.2
160 55.8 42.2 63.2

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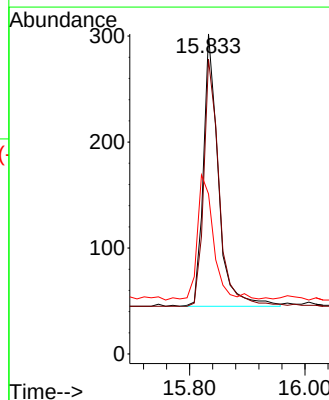
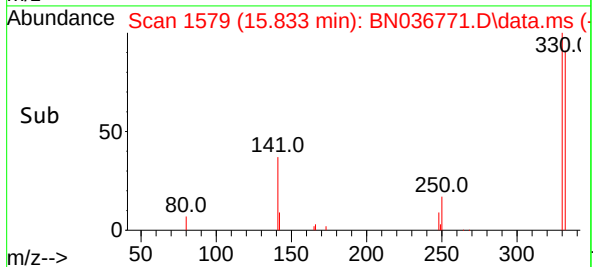
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

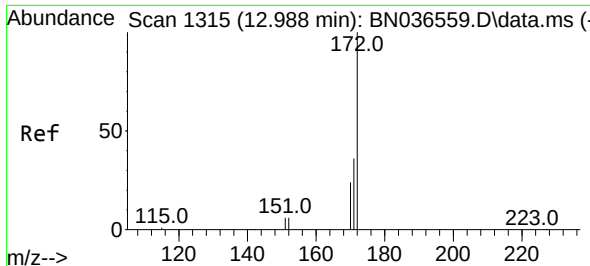


#14
2,4,6-Tribromophenol
Concen: 0.391 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58



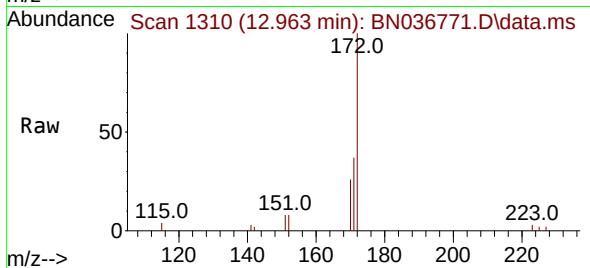
Tgt Ion:330 Resp: 464
Ion Ratio Lower Upper
330 100
332 93.3 75.2 112.8
141 49.1 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.347 ng
RT: 12.963 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

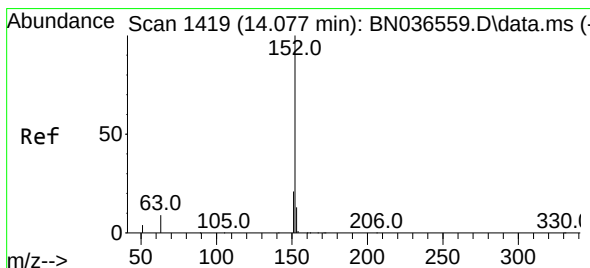
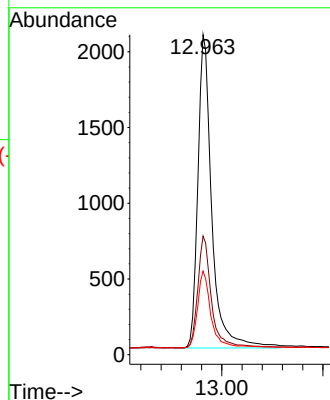
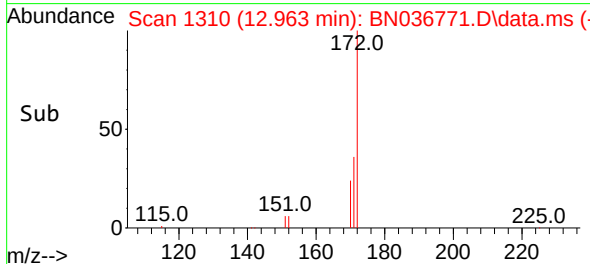
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:172 Resp: 528
Ion Ratio Lower Upper
172 100
171 37.1 29.5 44.3
170 26.1 20.2 30.4

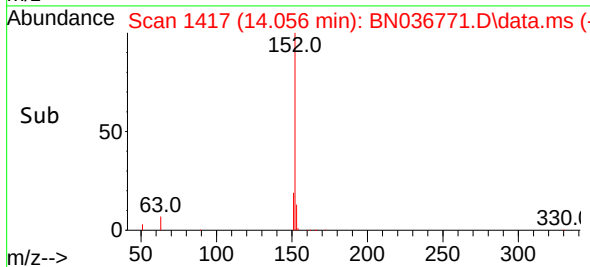
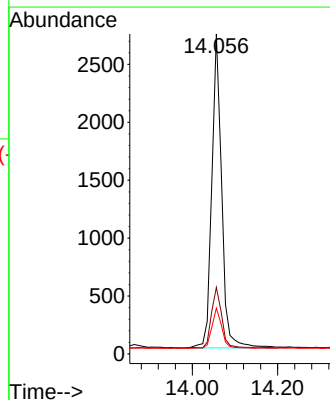
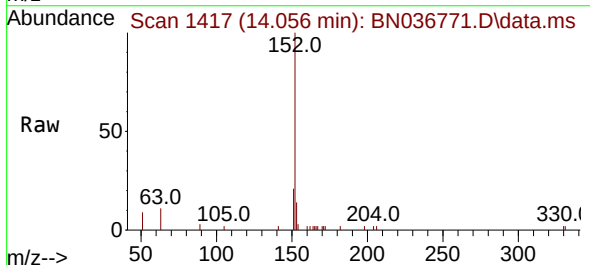
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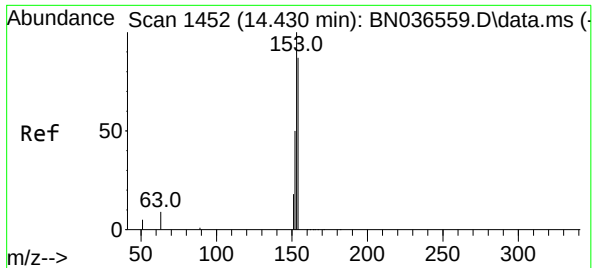
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#16
Acenaphthylene
Concen: 0.353 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

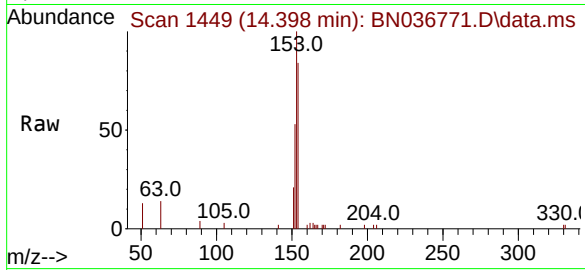
Tgt Ion:152 Resp: 4358
Ion Ratio Lower Upper
152 100
151 19.5 16.2 24.4
153 13.1 10.6 15.8





#17
Acenaphthene
Concen: 0.365 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

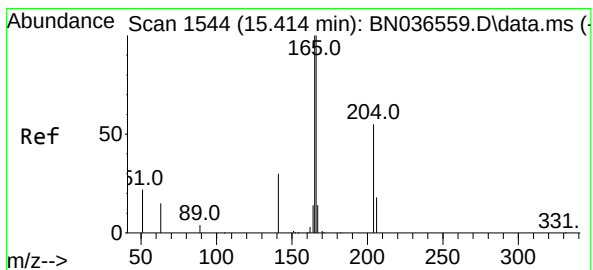
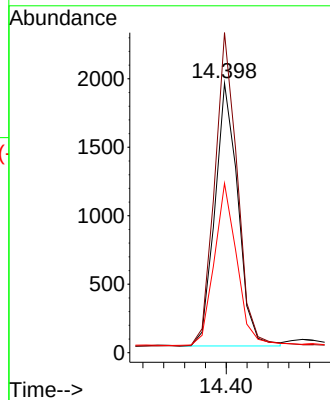
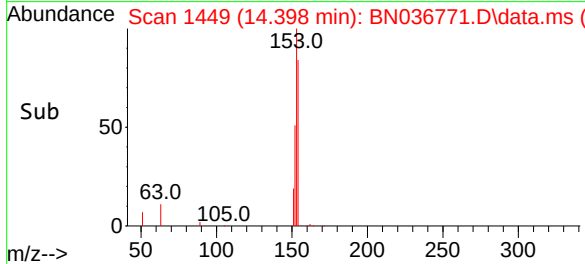
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 2940
Ion Ratio Lower Upper
154 100
153 117.7 94.1 141.1
152 61.6 49.8 74.6

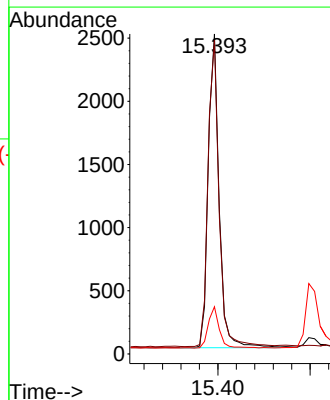
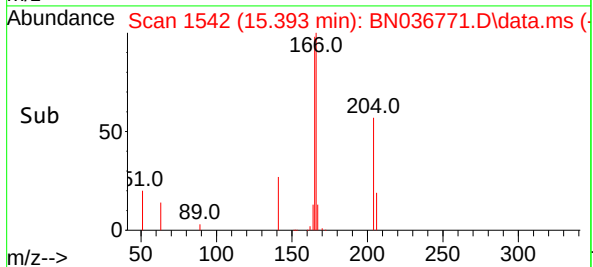
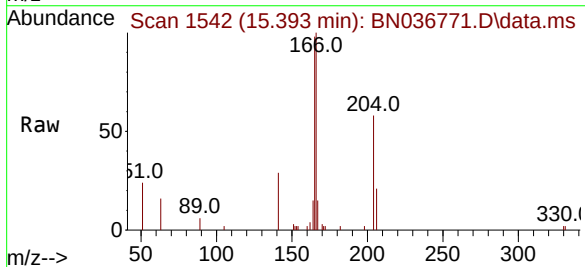
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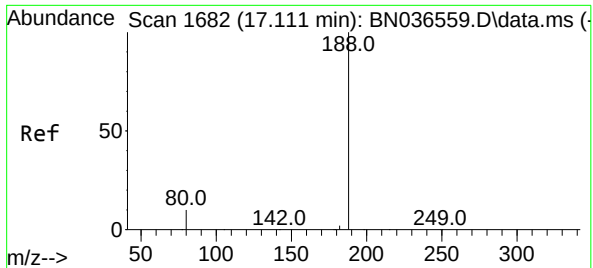
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#18
Fluorene
Concen: 0.376 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:166 Resp: 4111
Ion Ratio Lower Upper
166 100
165 97.9 79.8 119.8
167 13.4 10.6 15.8





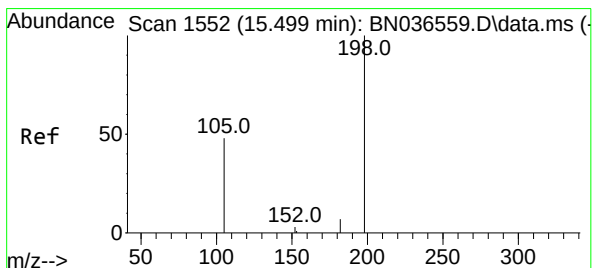
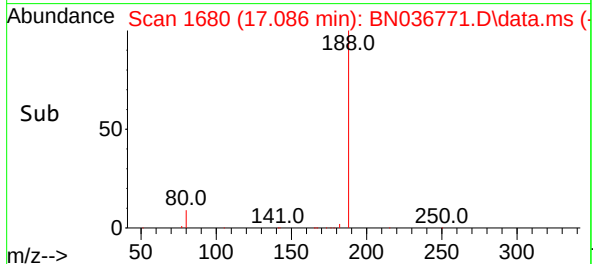
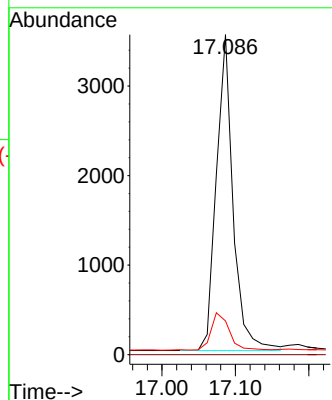
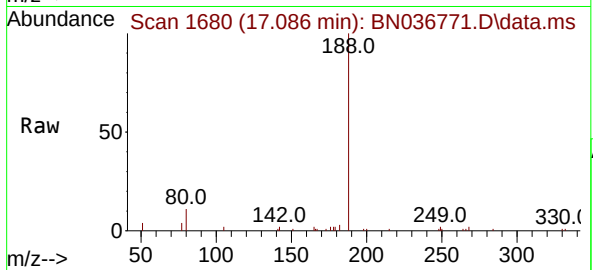
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 557
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.6 8.8 13.2

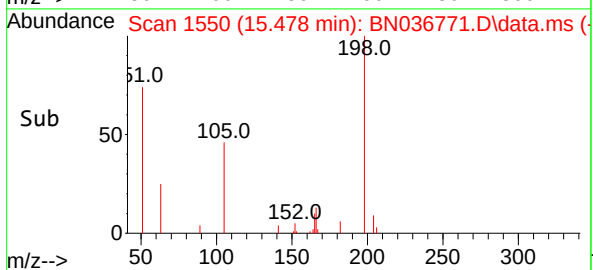
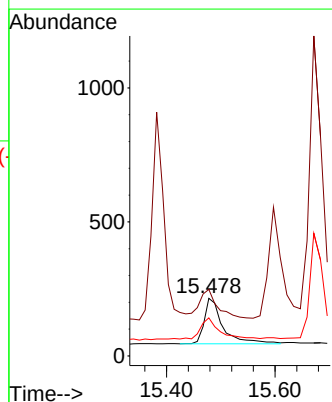
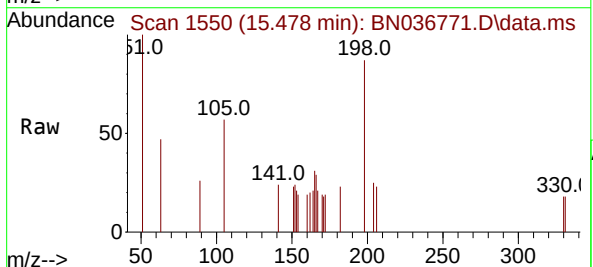
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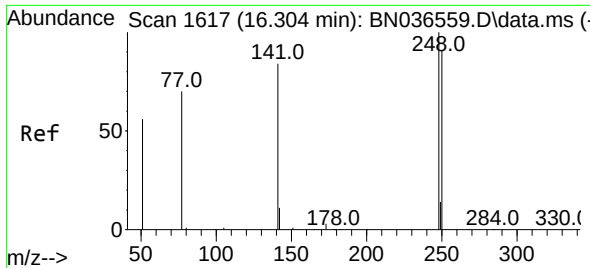
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.446 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

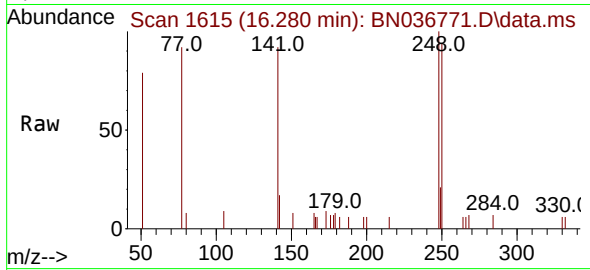
Tgt Ion:198 Resp: 428
Ion Ratio Lower Upper
198 100
51 115.3 107.9 161.9
105 66.0 56.2 84.2





#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

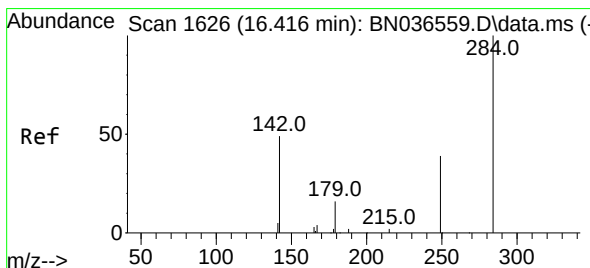
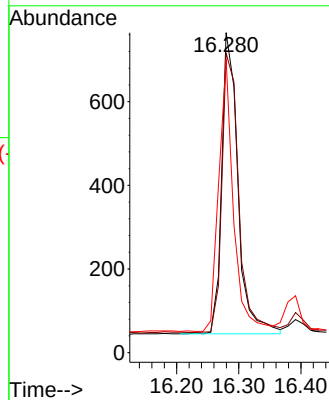
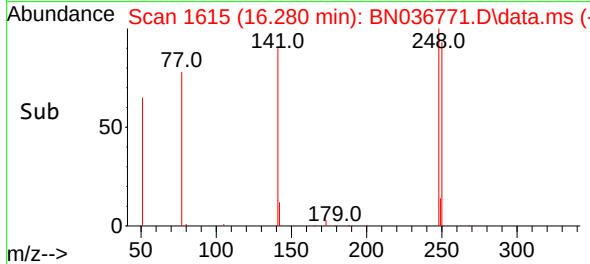
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:248 Resp: 1300
Ion Ratio Lower Upper
248 100
250 93.6 73.0 109.6
141 91.8 68.6 103.0

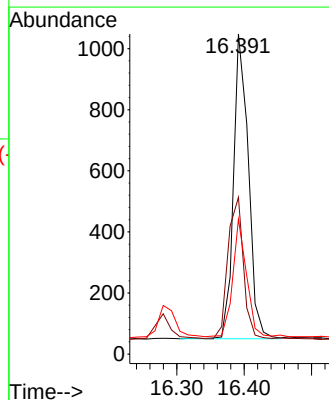
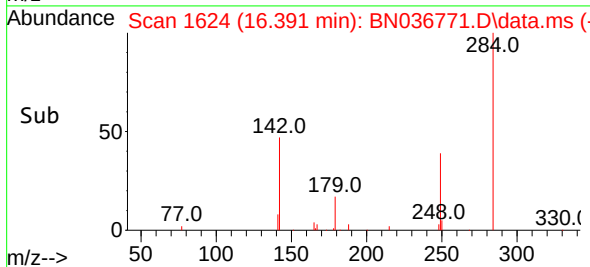
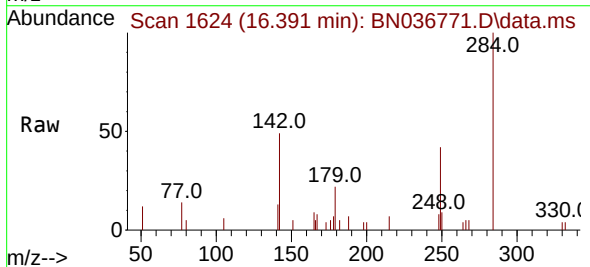
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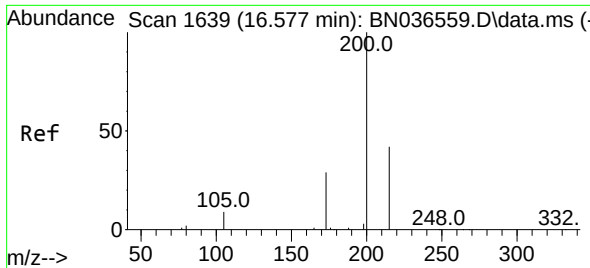
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#22
Hexachlorobenzene
Concen: 0.365 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

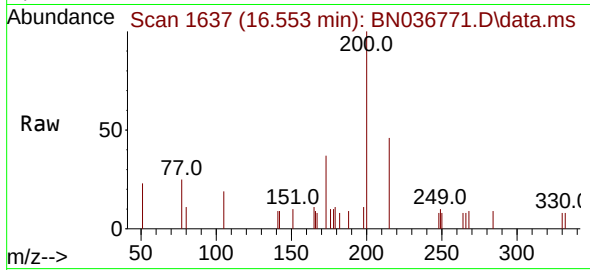
Tgt Ion:284 Resp: 1537
Ion Ratio Lower Upper
284 100
142 49.5 37.0 55.4
249 36.2 28.1 42.1





#23
Atrazine
Concen: 0.380 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

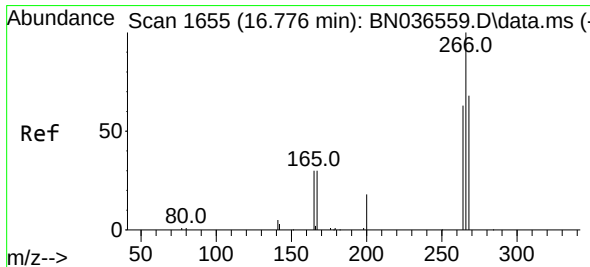
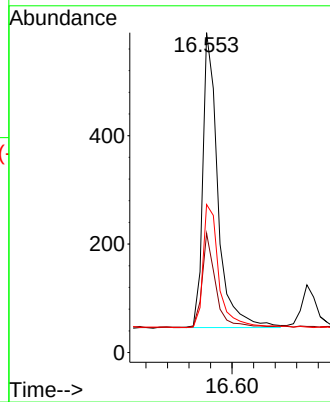
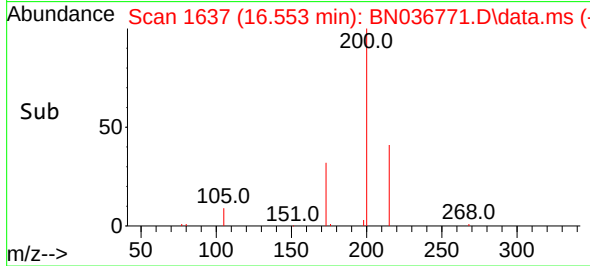
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:200 Resp: 106
Ion Ratio Lower Upper
200 100
173 37.3 27.3 40.9
215 46.3 36.8 55.2

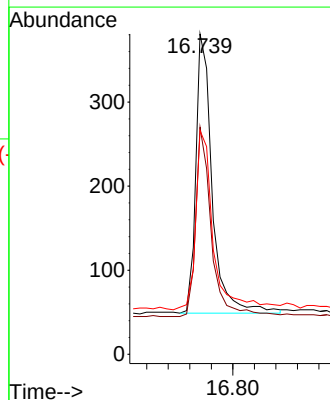
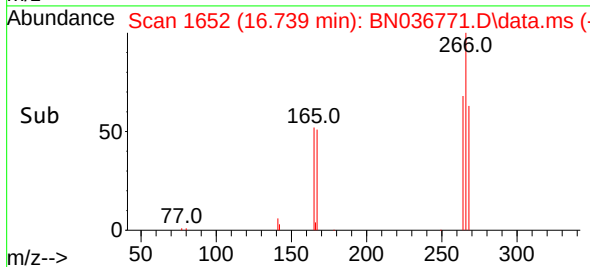
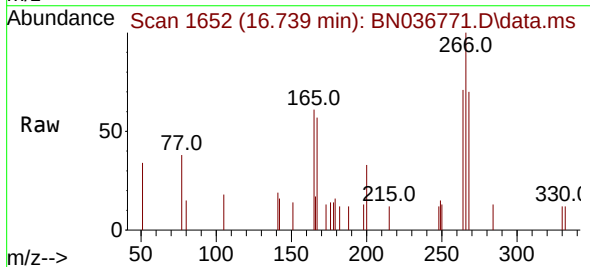
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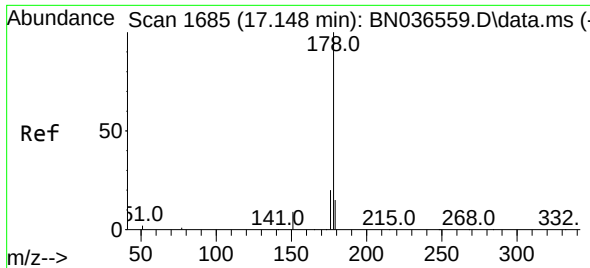
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#24
Pentachlorophenol
Concen: 0.365 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

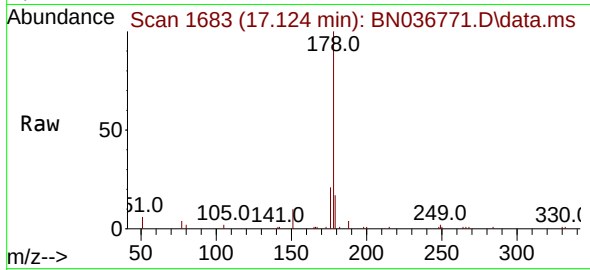
Tgt Ion:266 Resp: 702
Ion Ratio Lower Upper
266 100
264 64.8 49.6 74.4
268 69.2 50.9 76.3





#25
Phenanthrene
Concen: 0.381 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

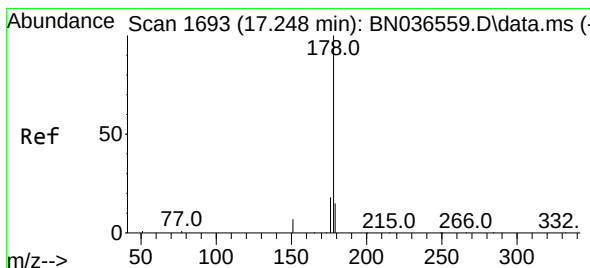
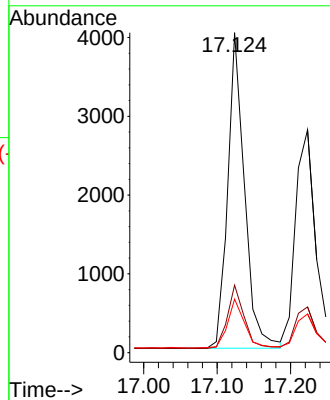
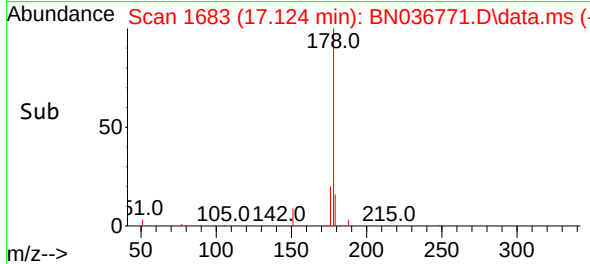
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



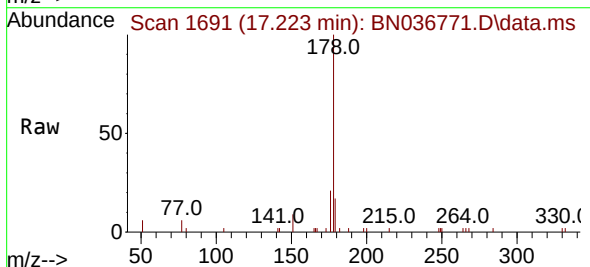
Tgt Ion:178 Resp: 636
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 15.8 12.2 18.4

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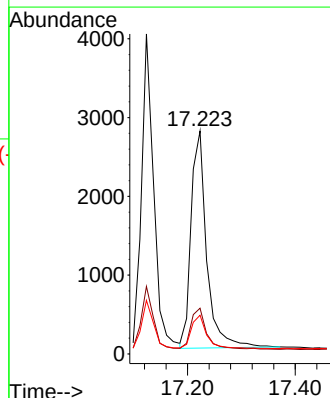
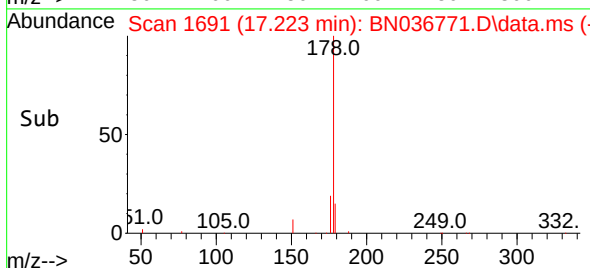
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

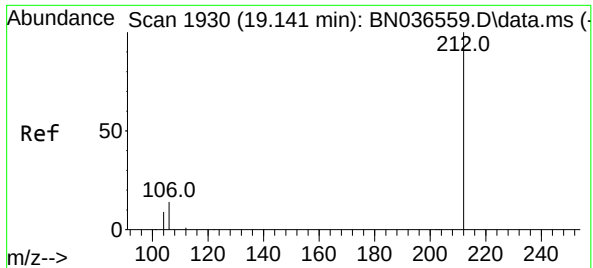


#26
Anthracene
Concen: 0.369 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58



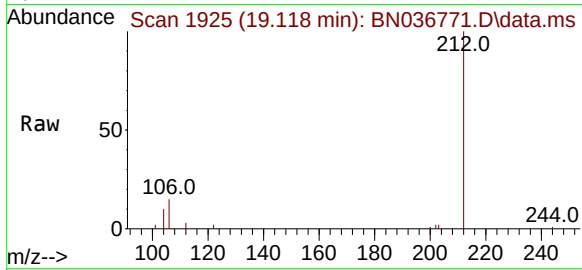
Tgt Ion:178 Resp: 5569
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.4 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.395 ng
RT: 19.118 min Scan# 1930
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

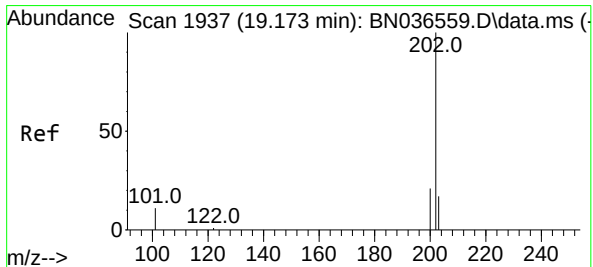
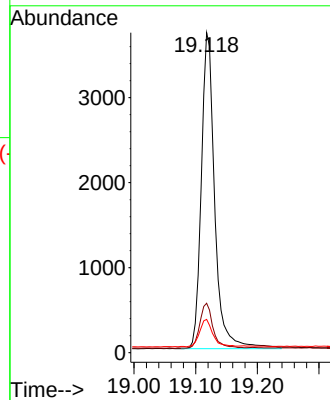
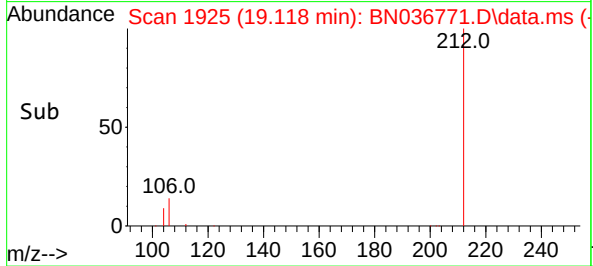
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



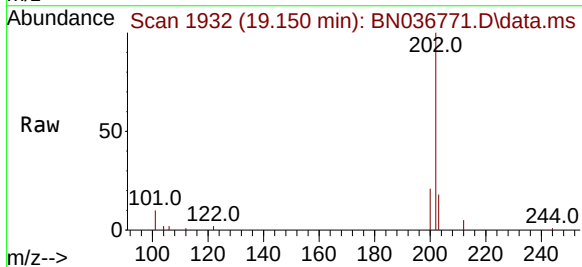
Tgt Ion:212 Resp: 563
Ion Ratio Lower Upper
212 100
106 13.8 11.8 17.6
104 8.6 7.3 10.9

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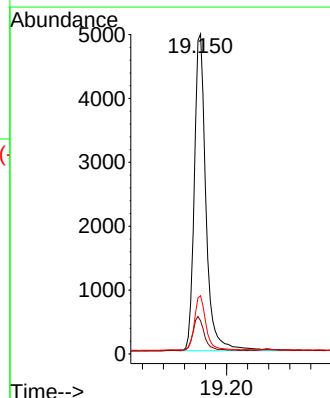
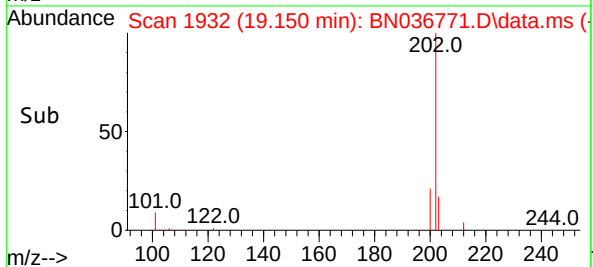
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

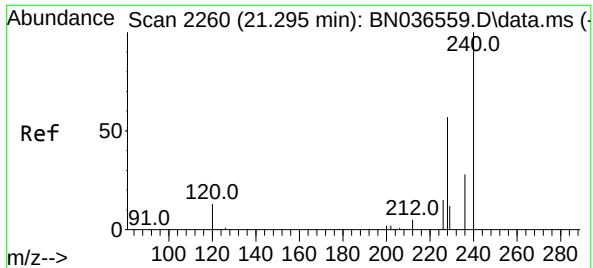


#28
Fluoranthene
Concen: 0.406 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58



Tgt Ion:202 Resp: 7617
Ion Ratio Lower Upper
202 100
101 11.0 9.4 14.0
203 16.8 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:240 Resp: 455

Ion Ratio Lower Upper

240 100

120 13.3 14.6 22.0

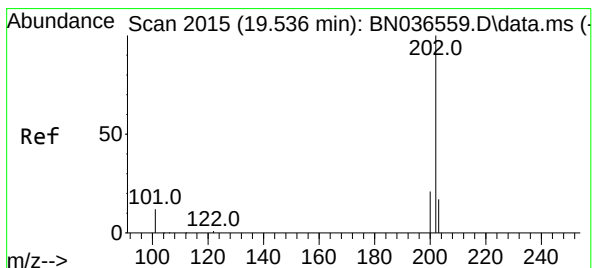
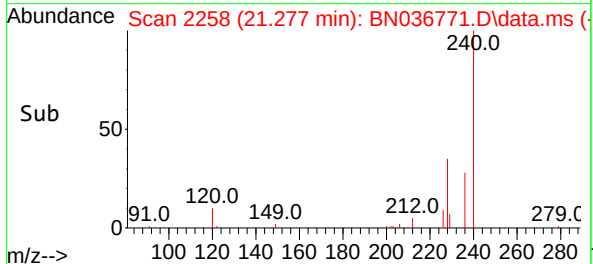
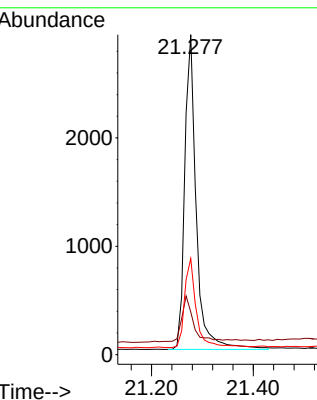
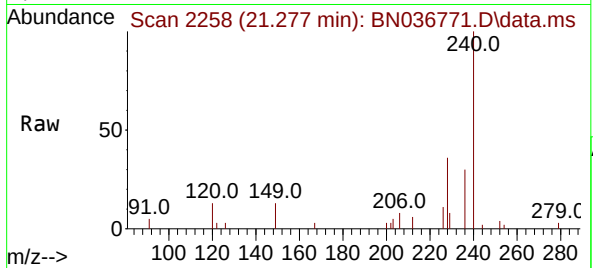
236 30.0 24.1 36.1

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Reviewed By :Anahy Claudio 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#30

Pyrene

Concen: 0.350 ng

RT: 19.513 min Scan# 2010

Delta R.T. -0.023 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

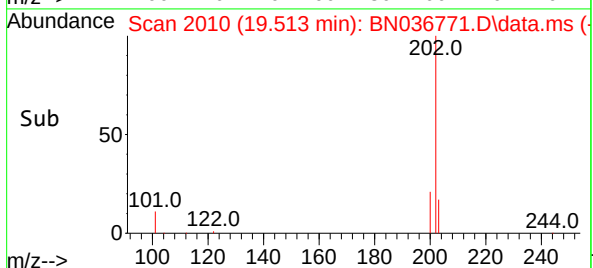
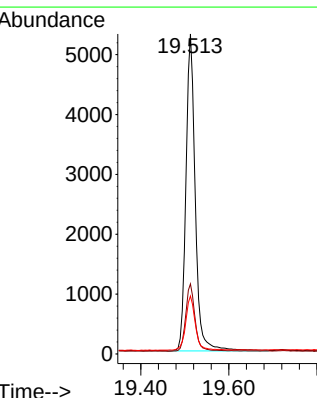
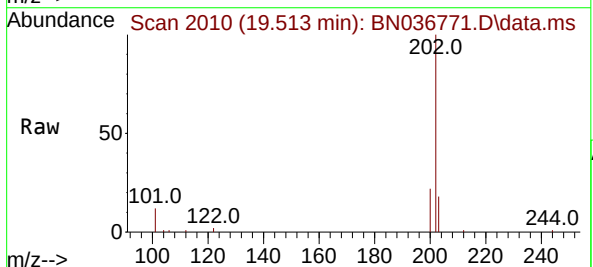
Tgt Ion:202 Resp: 7795

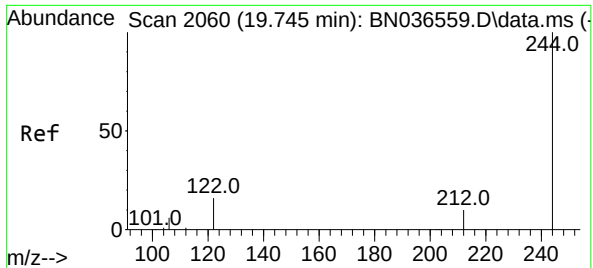
Ion Ratio Lower Upper

202 100

200 21.2 17.1 25.7

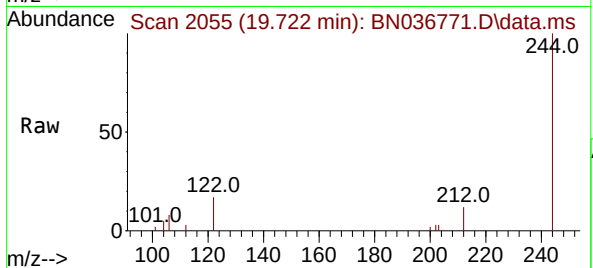
203 17.3 14.1 21.1





#31
Terphenyl-d14
Concen: 0.341 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

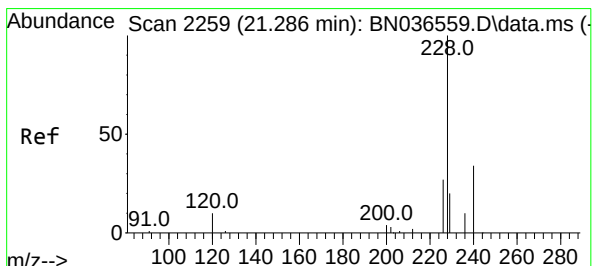
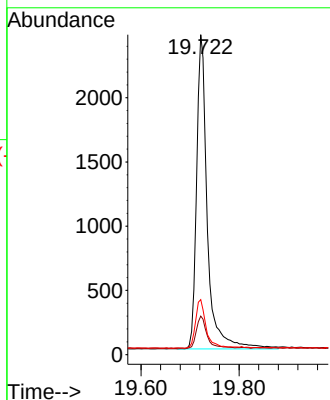
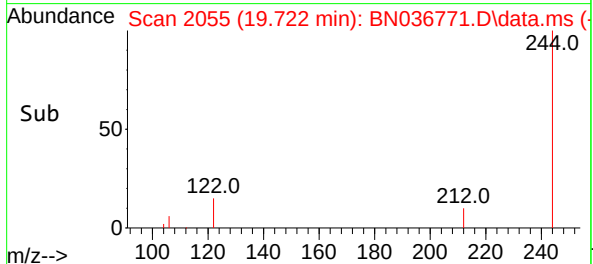
Instrument :
BNA_N
ClientSampleId :
SSTDC00.4EC



Tgt Ion:244 Resp: 3710
Ion Ratio Lower Upper
244 100
212 12.0 9.6 14.4
122 17.2 13.9 20.9

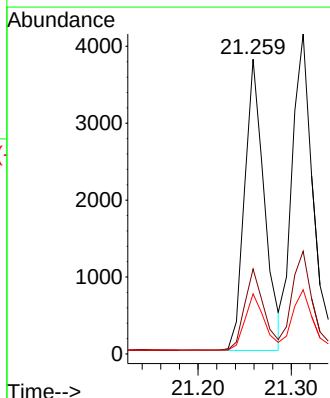
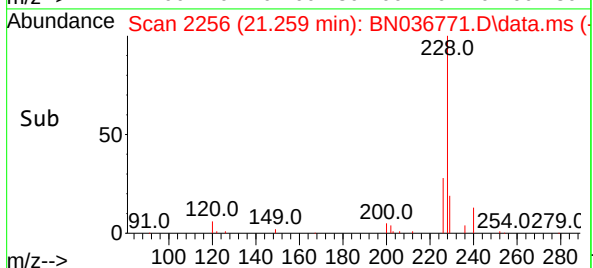
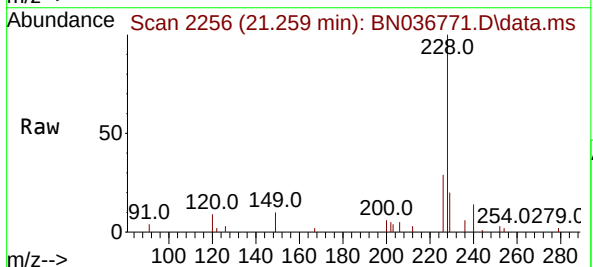
Manual Integrations
APPROVED

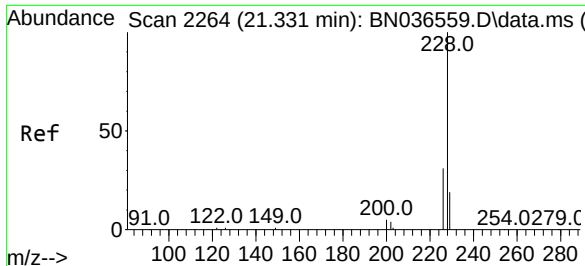
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:228 Resp: 5566
Ion Ratio Lower Upper
228 100
226 28.8 22.5 33.7
229 20.4 16.6 25.0





#33

Chrysene

Concen: 0.389 ng

RT: 21.313 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

Instrument :

BNA_N

ClientSampleId :

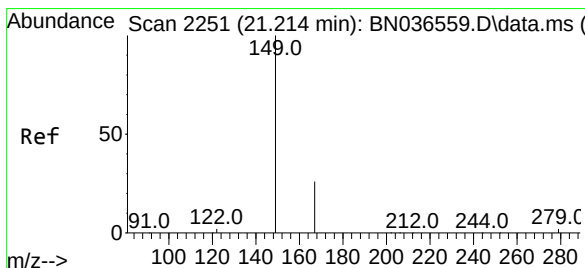
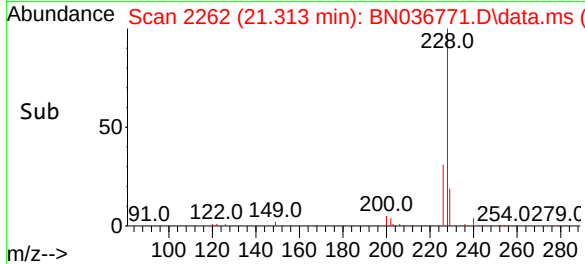
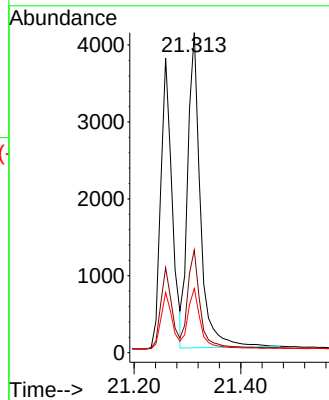
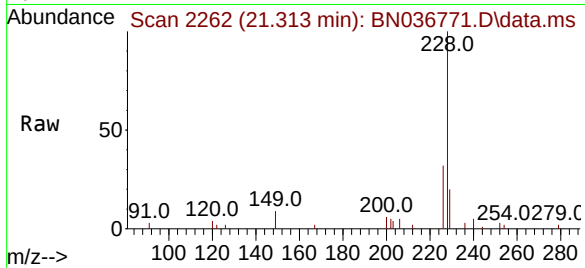
SSTDCCC0.4EC

Tgt Ion:	228	Resp:	6720
Ion Ratio	Lower	Upper	
228	100		
226	32.1	25.3	37.9
229	20.0	15.8	23.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.352 ng

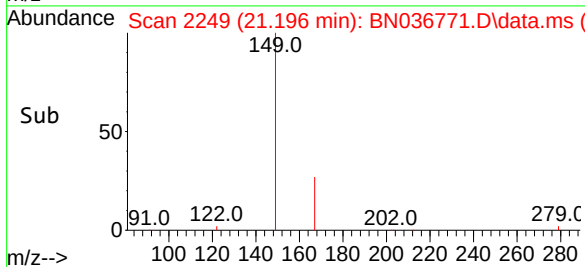
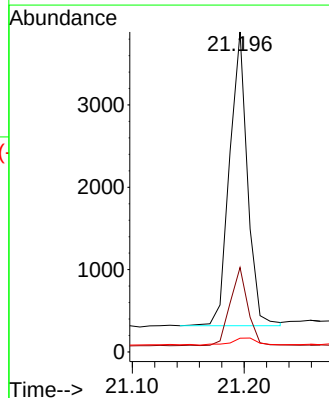
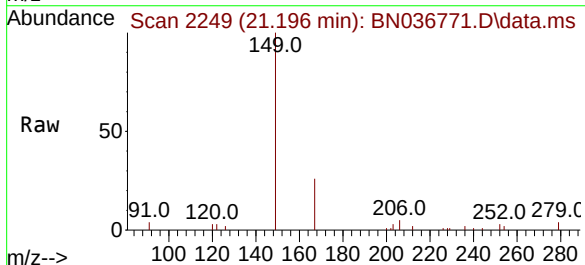
RT: 21.196 min Scan# 2249

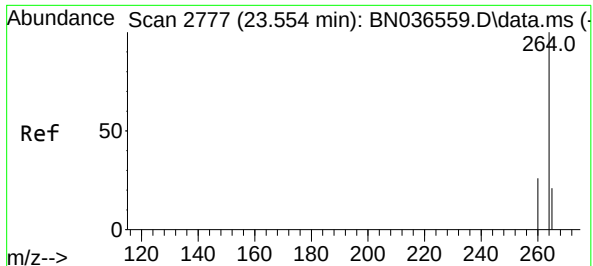
Delta R.T. -0.018 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

Tgt Ion:	149	Resp:	3968
Ion Ratio	Lower	Upper	
149	100		
167	26.1	20.7	31.1
279	3.3	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.516 min Scan# 21

Delta R.T. -0.038 min

Lab File: BN036771.D

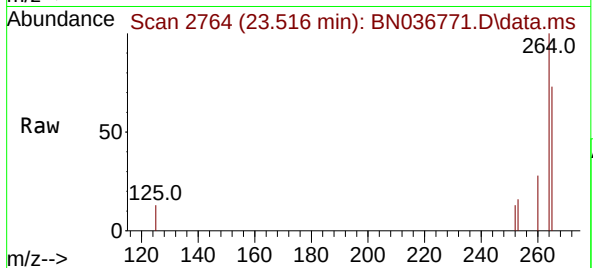
Acq: 28 Mar 2025 13:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:264 Resp: 416

Ion Ratio Lower Upper

264 100

260 27.7 22.6 33.8

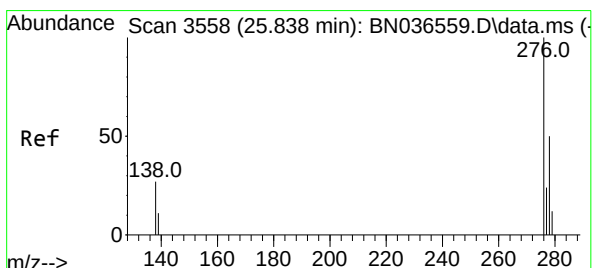
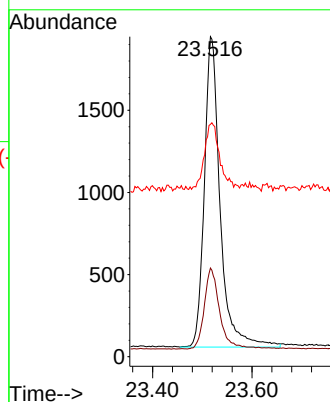
265 72.6 88.1 132.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.348 ng

RT: 25.782 min Scan# 3539

Delta R.T. -0.055 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

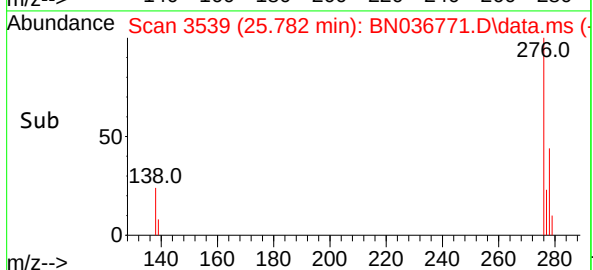
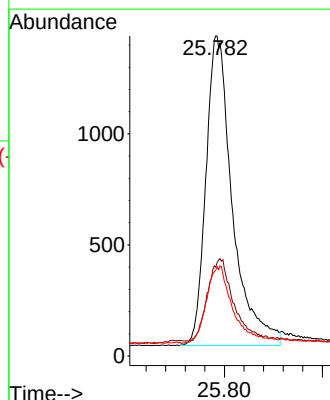
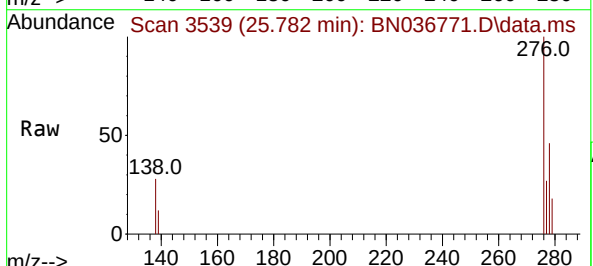
Tgt Ion:276 Resp: 5233

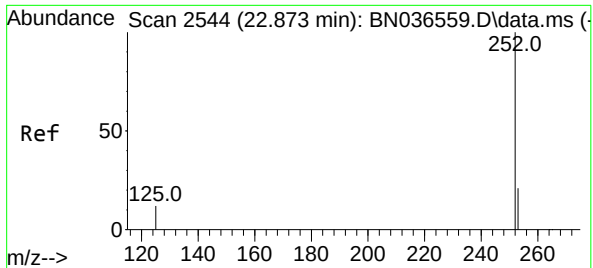
Ion Ratio Lower Upper

276 100

138 25.8 23.4 35.2

277 25.2 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.377 ng

RT: 22.844 min Scan# 2544

Delta R.T. -0.029 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

Instrument :

BNA_N

ClientSampleId :

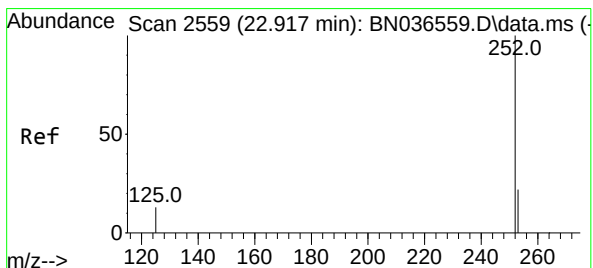
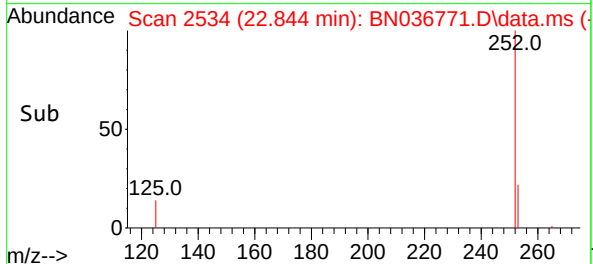
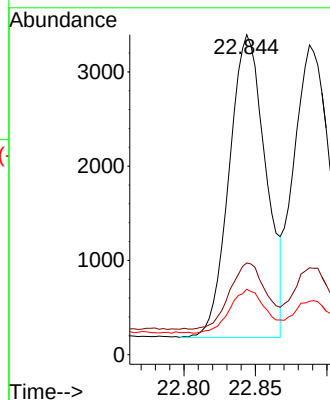
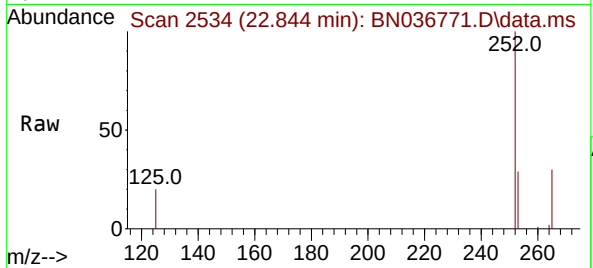
SSTDCCC0.4EC

Tgt Ion:252	Resp:	5720
Ion Ratio	Lower	Upper
252	100	
253	28.6	23.9 35.9
125	20.5	17.4 26.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#38

Benzo(k)fluoranthene

Concen: 0.364 ng m

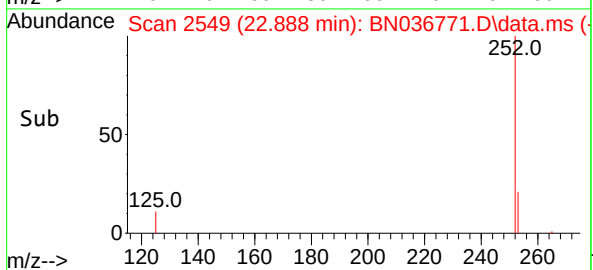
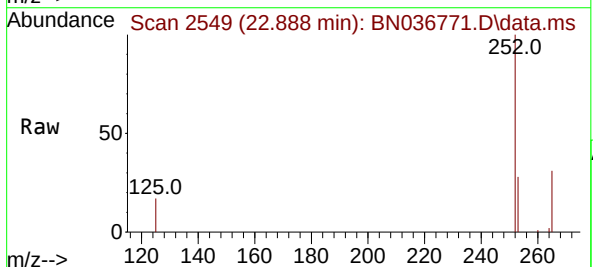
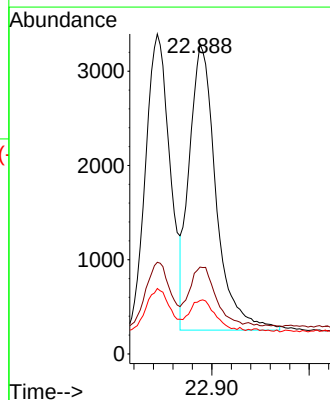
RT: 22.888 min Scan# 2549

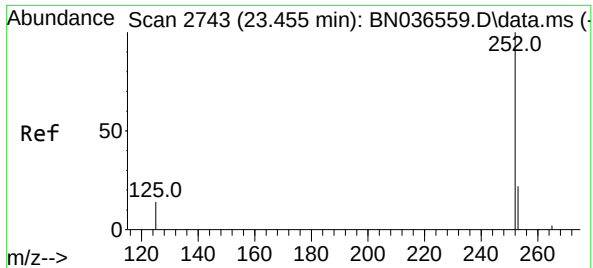
Delta R.T. -0.029 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

Tgt Ion:252	Resp:	5791
Ion Ratio	Lower	Upper
252	100	
253	28.0	24.6 36.8
125	17.2	17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.381 ng

RT: 23.420 min Scan# 21

Delta R.T. -0.035 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

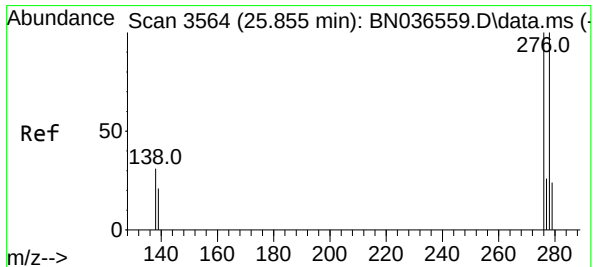
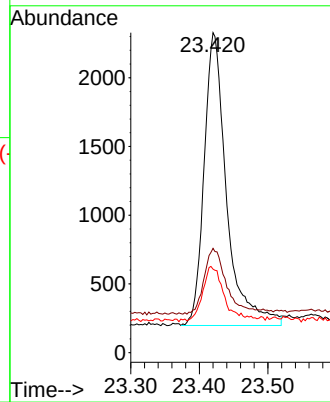
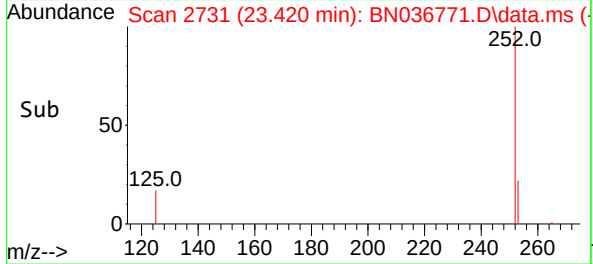
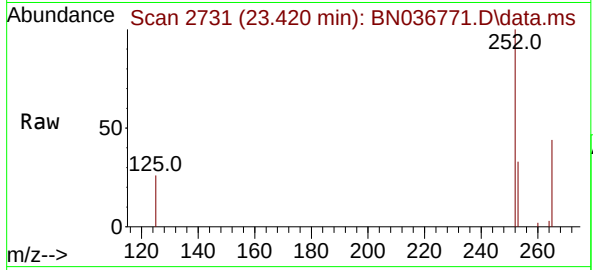
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	252	Resp:	486
Ion Ratio	Lower	Upper	
252	100		
253	32.6	27.8	41.8
125	26.1	22.7	34.1

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

#40

Dibenzo(a,h)anthracene

Concen: 0.334 ng

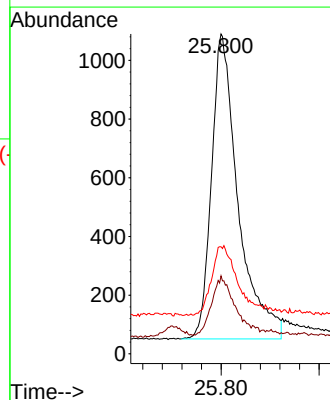
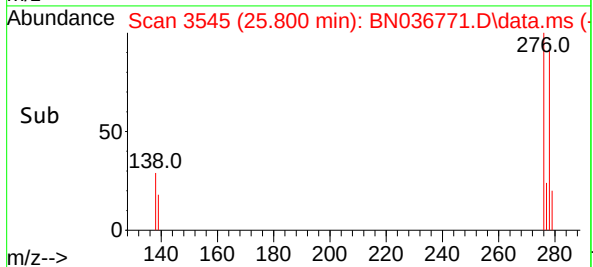
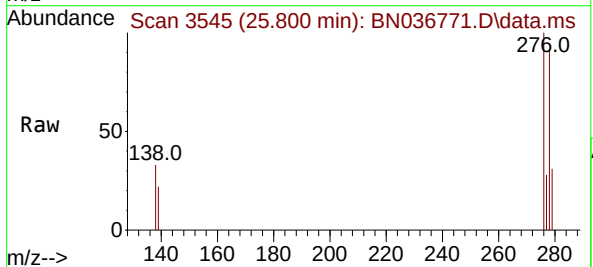
RT: 25.800 min Scan# 3545

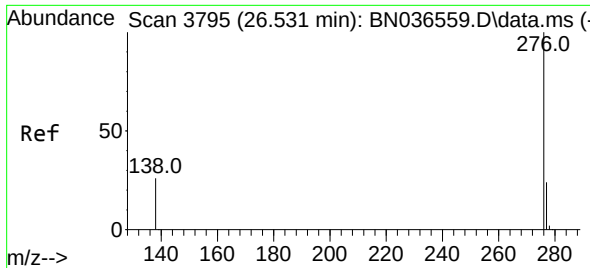
Delta R.T. -0.055 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

Tgt Ion:	278	Resp:	3914
Ion Ratio	Lower	Upper	
278	100		
139	24.4	20.8	31.2
279	33.5	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.355 ng

RT: 26.475 min Scan# 31

Delta R.T. -0.055 min

Lab File: BN036771.D

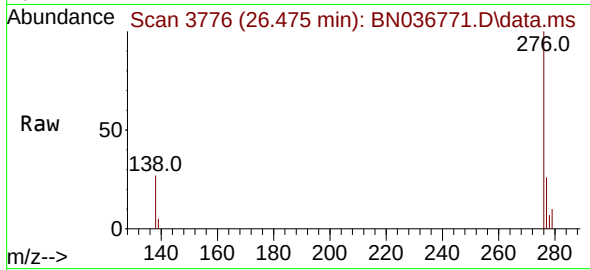
Acq: 28 Mar 2025 13:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 4758

Ion Ratio Lower Upper

276 100

277 25.7 22.2 33.4

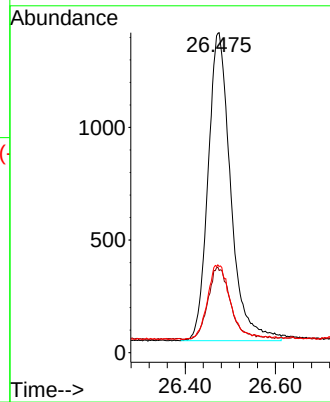
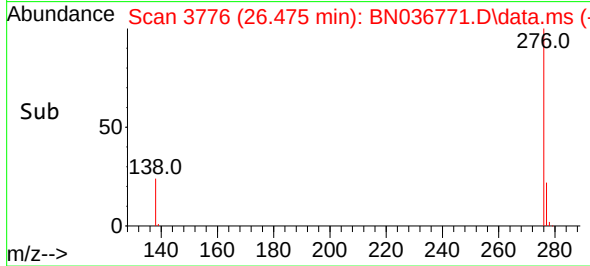
138 27.0 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	74	-0.03
2	1,4-Dioxane	0.444	0.460	-3.6	68	-0.01
3	n-Nitrosodimethylamine	0.898	0.870	3.1	69	-0.01
4 S	2-Fluorophenol	0.932	0.846	9.2	64	-0.02
5 S	Phenol-d6	1.152	1.010	12.3	66	-0.03
6	bis(2-Chloroethyl)ether	1.190	1.021	14.2	64	-0.03
7 I	Naphthalene-d8	1.000	1.000	0.0	82	-0.02
8 S	Nitrobenzene-d5	0.435	0.354	18.6	70	-0.02
9	Naphthalene	1.177	1.044	11.3	71	-0.03
10	Hexachlorobutadiene	0.277	0.250	9.7	70	-0.03
11 SURR	2-Methylnaphthalene-d10	0.595	0.540	9.2	73	-0.03
12	2-Methylnaphthalene	0.749	0.688	8.1	74	-0.03
13 I	Acenaphthene-d10	1.000	1.000	0.0	86	-0.03
14 S	2,4,6-Tribromophenol	0.182	0.177	2.7	82	-0.02
15 S	2-Fluorobiphenyl	2.327	2.021	13.1	73	-0.03
16	Acenaphthylene	1.888	1.667	11.7	74	-0.02
17	Acenaphthene	1.236	1.127	8.8	76	-0.03
18	Fluorene	1.672	1.572	6.0	77	-0.02
19 I	Phenanthrene-d10	1.000	1.000	0.0	93	-0.02
20	4,6-Dinitro-2-methylphenol	0.086	0.077	10.5	93	-0.02
21	4-Bromophenyl-phenylether	0.251	0.233	7.2	79	-0.02
22	Hexachlorobenzene	0.303	0.276	8.9	76	-0.02
23	Atrazine	0.201	0.191	5.0	83	-0.02
24	Pentachlorophenol	0.138	0.126	8.7	86	-0.04
25	Phenanthrene	1.200	1.143	4.7	82	-0.02
26	Anthracene	1.083	1.000	7.7	81	-0.02
27 SURR	Fluoranthene-d10	1.025	1.012	1.3	84	-0.02
28	Fluoranthene	1.348	1.367	-1.4	87	-0.02
29 I	Chrysene-d12	1.000	1.000	0.0	111	-0.02
30	Pyrene	1.956	1.711	12.5	89	-0.02
31 S	Terphenyl-d14	0.958	0.816	14.8	88	-0.02
32	Benzo(a)anthracene	1.391	1.222	12.1	94	-0.03
33	Chrysene	1.520	1.477	2.8	102	-0.02
34	Bis(2-ethylhexyl)phthalate	0.990	0.871	12.0	92	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	118	-0.04
36	Indeno(1,2,3-cd)pyrene	1.444	1.256	13.0	96	-0.06
37	Benzo(b)fluoranthene	1.456	1.373	5.7	104	-0.03
38	Benzo(k)fluoranthene	1.527	1.390	9.0	101	-0.03
39 C	Benzo(a)pyrene	1.226	1.168	4.7	106	-0.03
40	Dibenzo(a,h)anthracene	1.124	0.939	16.5	95	-0.06
41	Benzo(g,h,i)perylene	1.286	1.142	11.2	97	-0.06

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	74	-0.03
2	1,4-Dioxane	0.400	0.414	-3.5	68	-0.01
3	n-Nitrosodimethylamine	0.400	0.388	3.0	69	-0.01
4 S	2-Fluorophenol	0.400	0.363	9.3	64	-0.02
5 S	Phenol-d6	0.400	0.351	12.3	66	-0.03
6	bis(2-Chloroethyl)ether	0.400	0.343	14.2	64	-0.03
7 I	Naphthalene-d8	0.400	0.400	0.0	82	-0.02
8 S	Nitrobenzene-d5	0.400	0.326	18.5	70	-0.02
9	Naphthalene	0.400	0.355	11.3	71	-0.03
10	Hexachlorobutadiene	0.400	0.361	9.8	70	-0.03
11 SURR	2-Methylnaphthalene-d10	0.400	0.363	9.3	73	-0.03
12	2-Methylnaphthalene	0.400	0.368	8.0	74	-0.03
13 I	Acenaphthene-d10	0.400	0.400	0.0	86	-0.03
14 S	2,4,6-Tribromophenol	0.400	0.391	2.3	82	-0.02
15 S	2-Fluorobiphenyl	0.400	0.347	13.3	73	-0.03
16	Acenaphthylene	0.400	0.353	11.8	74	-0.02
17	Acenaphthene	0.400	0.365	8.8	76	-0.03
18	Fluorene	0.400	0.376	6.0	77	-0.02
19 I	Phenanthrene-d10	0.400	0.400	0.0	93	-0.02
20	4,6-Dinitro-2-methylphenol	0.400	0.446	-11.5	93	-0.02
21	4-Bromophenyl-phenylether	0.400	0.372	7.0	79	-0.02
22	Hexachlorobenzene	0.400	0.365	8.8	76	-0.02
23	Atrazine	0.400	0.380	5.0	83	-0.02
24	Pentachlorophenol	0.400	0.365	8.8	86	-0.04
25	Phenanthrene	0.400	0.381	4.8	82	-0.02
26	Anthracene	0.400	0.369	7.8	81	-0.02
27 SURR	Fluoranthene-d10	0.400	0.395	1.3	84	-0.02
28	Fluoranthene	0.400	0.406	-1.5	87	-0.02
29 I	Chrysene-d12	0.400	0.400	0.0	111	-0.02
30	Pyrene	0.400	0.350	12.5	89	-0.02
31 S	Terphenyl-d14	0.400	0.341	14.8	88	-0.02
32	Benzo(a)anthracene	0.400	0.351	12.3	94	-0.03
33	Chrysene	0.400	0.389	2.8	102	-0.02
34	Bis(2-ethylhexyl)phthalate	0.400	0.352	12.0	92	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	118	-0.04
36	Indeno(1,2,3-cd)pyrene	0.400	0.348	13.0	96	-0.06
37	Benzo(b)fluoranthene	0.400	0.377	5.8	104	-0.03
38	Benzo(k)fluoranthene	0.400	0.364	9.0	101	-0.03
39 C	Benzo(a)pyrene	0.400	0.381	4.8	106	-0.03
40	Dibenzo(a,h)anthracene	0.400	0.334	16.5	95	-0.06
41	Benzo(g,h,i)perylene	0.400	0.355	11.3	97	-0.06

(#) = 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.: Q1620 SAS No.: Q1620 SDG No.: Q1620

Instrument ID: BNA_N Calibration Date/Time: 03/29/2025 02:44

Lab File ID: BN036791.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.526		-11.6	20.0
Fluoranthene-d10	1.025	1.032		0.7	20.0
2-Fluorophenol	0.932	0.833		-10.6	20.0
Phenol-d6	1.152	1.007		-12.6	20.0
Nitrobenzene-d5	0.435	0.376		-13.6	20.0
2-Fluorobiphenyl	2.327	2.041		-12.3	20.0
2,4,6-Tribromophenol	0.182	0.178		-2.2	20.0
Terphenyl-d14	0.958	0.782		-18.4	20.0
1,4-Dioxane	0.444	0.453		2.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
 Data File : BN036791.D
 Acq On : 29 Mar 2025 02:44
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Mar 29 04:28:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/31/2025
 Supervised By :Jagrut Upadhyay 03/31/2025

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1826	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	4490	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	2701	0.400	ng	-0.03
19) Phenanthrene-d10	17.087	188	5571	0.400	ng	-0.02
29) Chrysene-d12	21.268	240	4634	0.400	ng	-0.03
35) Perylene-d12	23.516	264	4032	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	1521	0.357	ng	-0.02
5) Phenol-d6	6.872	99	1838	0.350	ng	-0.03
8) Nitrobenzene-d5	8.843	82	1689	0.346	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2363	0.354	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	481	0.392	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	5513	0.351	ng	-0.03
27) Fluoranthene-d10	19.118	212	5751	0.403	ng	-0.02
31) Terphenyl-d14	19.722	244	3623	0.326	ng	-0.02
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.225	88	827	0.408	ng	98
3) n-Nitrosodimethylamine	3.543	42	1757	0.429	ng	91
6) bis(2-Chloroethyl)ether	7.125	93	1880	0.346	ng	99
9) Naphthalene	10.530	128	4740	0.359	ng	99
10) Hexachlorobutadiene	10.819	225	1160	0.373	ng	# 98
12) 2-Methylnaphthalene	12.151	142	3044	0.362	ng	98
16) Acenaphthylene	14.056	152	4532	0.356	ng	99
17) Acenaphthene	14.398	154	3064	0.367	ng	99
18) Fluorene	15.393	166	4209	0.373	ng	99
20) 4,6-Dinitro-2-methylph...	15.478	198	395	0.423	ng	# 76
21) 4-Bromophenyl-phenylether	16.280	248	1353	0.388	ng	96
22) Hexachlorobenzene	16.391	284	1582	0.375	ng	97
23) Atrazine	16.553	200	1090	0.389	ng	97
24) Pentachlorophenol	16.739	266	740	0.385	ng	98
25) Phenanthrene	17.124	178	6416	0.384	ng	99
26) Anthracene	17.223	178	5669	0.376	ng	100
28) Fluoranthene	19.146	202	7784	0.415	ng	99
30) Pyrene	19.513	202	7947	0.351	ng	100
32) Benzo(a)anthracene	21.259	228	5842	0.363	ng	100
33) Chrysene	21.304	228	6781	0.385	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	4355	0.380	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.779	276	5407	0.372	ng	94
37) Benzo(b)fluoranthene	22.841	252	5627	0.383	ng	97
38) Benzo(k)fluoranthene	22.885	252	6157m	0.400	ng	
39) Benzo(a)pyrene	23.417	252	4993	0.404	ng	95
40) Dibenzo(a,h)anthracene	25.800	278	4150	0.366	ng	93
41) Benzo(g,h,i)perylene	26.469	276	4876	0.376	ng	95

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
 Data File : BN036791.D
 Acq On : 29 Mar 2025 02:44
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

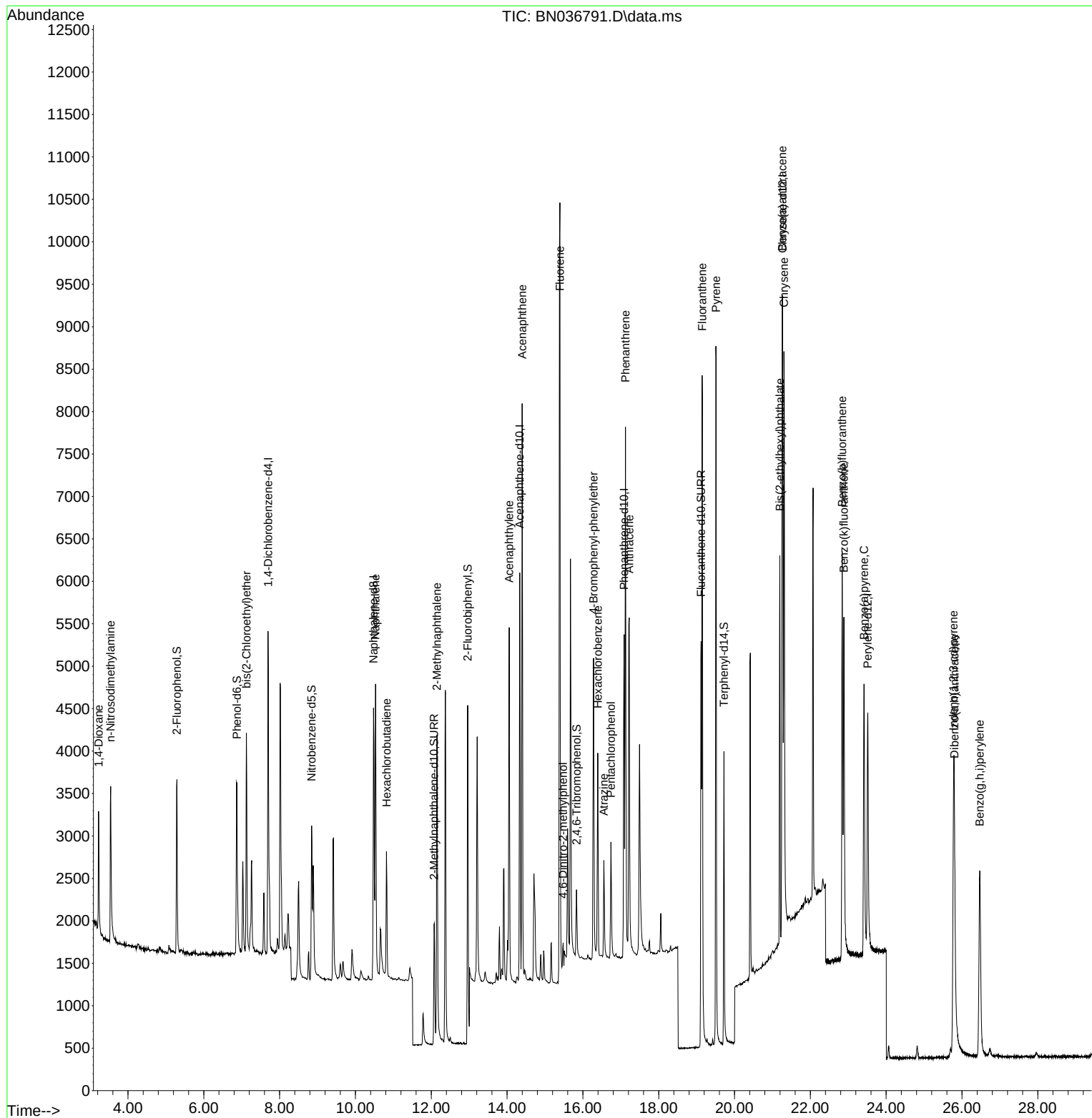
SSTDCCC0.4

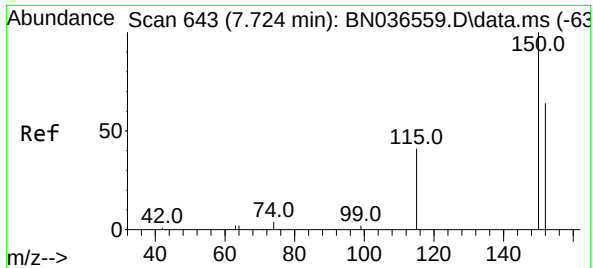
Manual Integrations**APPROVED**

Reviewed By :Anahy Claudio 03/31/2025

Supervised By :Jagrut Upadhyay 03/31/2025

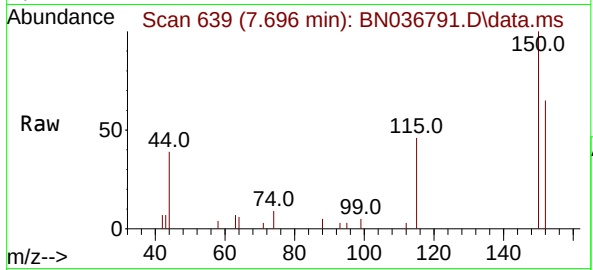
Quant Time: Mar 29 04:28:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 61
Delta R.T. -0.028 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

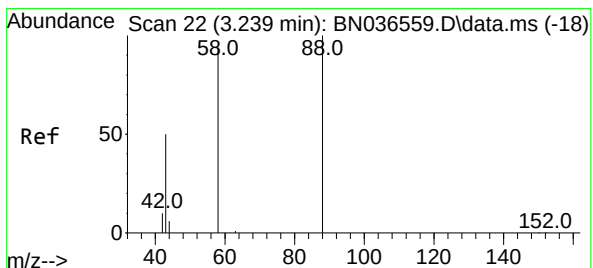
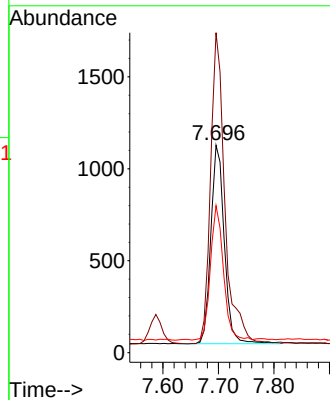
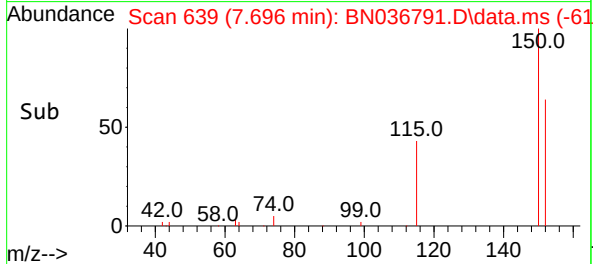
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 152 Resp: 1820
Ion Ratio Lower Upper
152 100
150 154.3 123.7 185.5
115 70.9 54.3 81.5

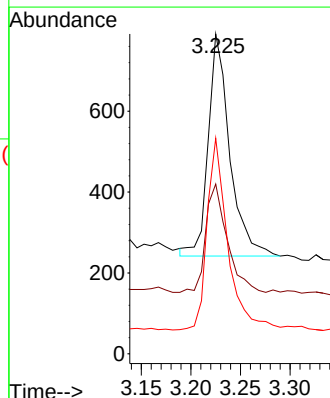
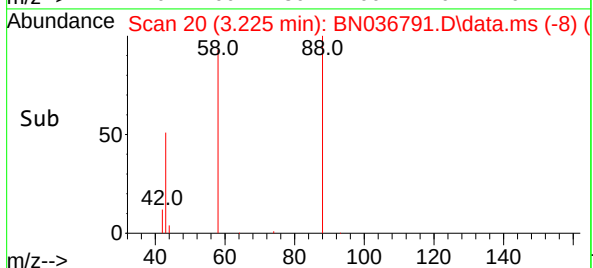
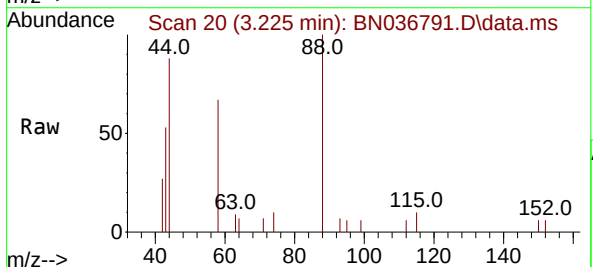
Manual Integrations
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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

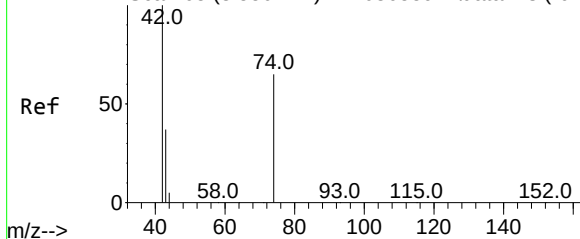


#2
1,4-Dioxane
Concen: 0.408 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 88 Resp: 827
Ion Ratio Lower Upper
88 100
43 48.5 37.8 56.8
58 83.0 67.4 101.2



Abundance Scan 65 (3.550 min): BN036559.D\data.ms (-61)



#3

n-Nitrosodimethylamine

Concen: 0.429 ng

RT: 3.543 min Scan# 64

Delta R.T. -0.007 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 175

Ion Ratio Lower Upper

42 100

74 67.4 60.6 90.8

44 6.6 6.3 9.5

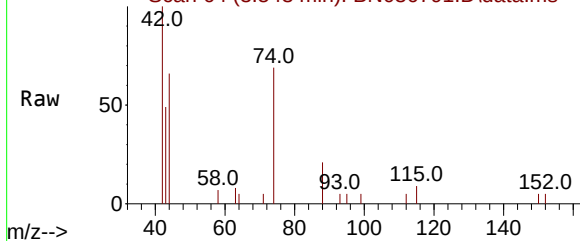
Manual Integrations

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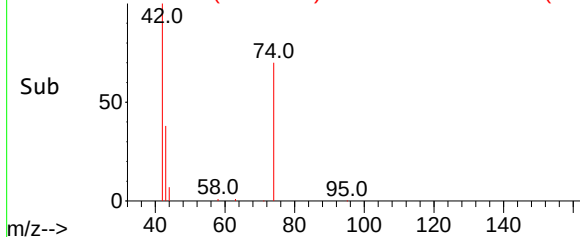
Reviewed By :Anahy Claudio 03/31/2025

Supervised By :Jagrut Upadhyay 03/31/2025

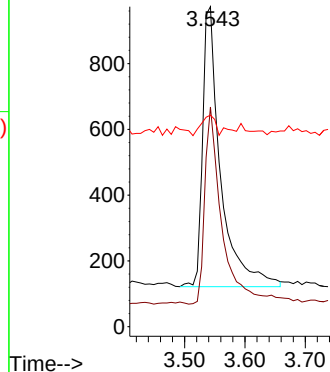
Abundance Scan 64 (3.543 min): BN036791.D\data.ms



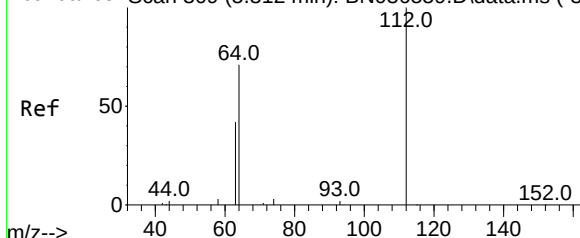
Abundance Scan 64 (3.543 min): BN036791.D\data.ms (-44)



Abundance



Abundance Scan 309 (5.312 min): BN036559.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.357 ng

RT: 5.291 min Scan# 306

Delta R.T. -0.021 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

Tgt Ion:112 Resp: 1521

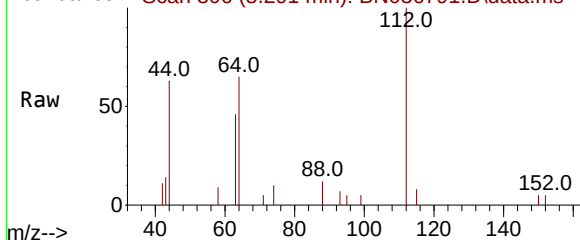
Ion Ratio Lower Upper

112 100

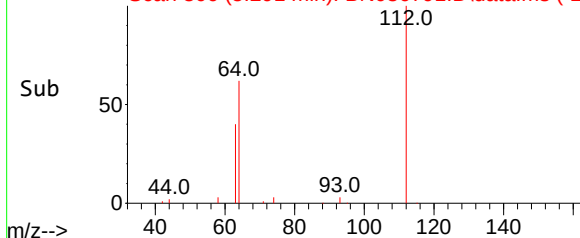
64 68.8 53.1 79.7

63 46.2 31.8 47.8

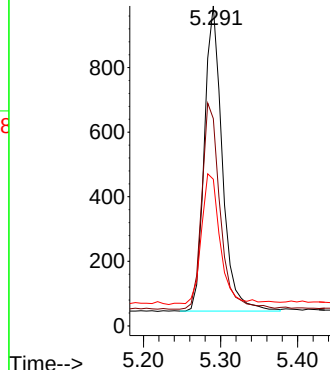
Abundance Scan 306 (5.291 min): BN036791.D\data.ms

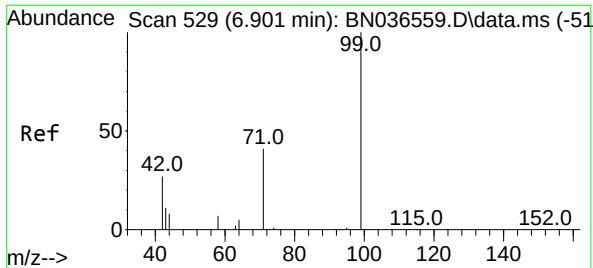


Abundance Scan 306 (5.291 min): BN036791.D\data.ms (-28)



Abundance





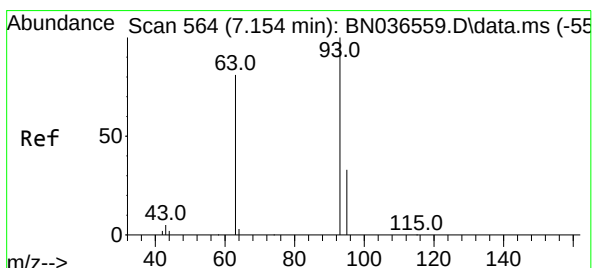
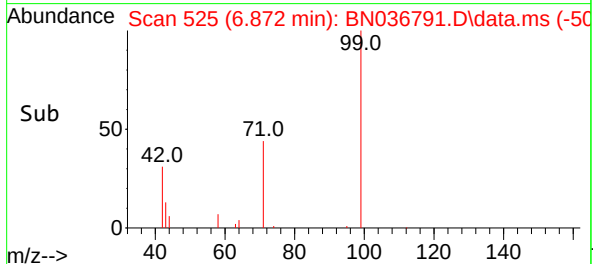
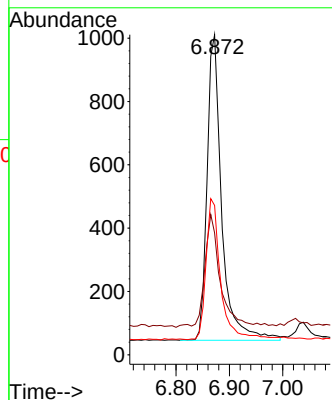
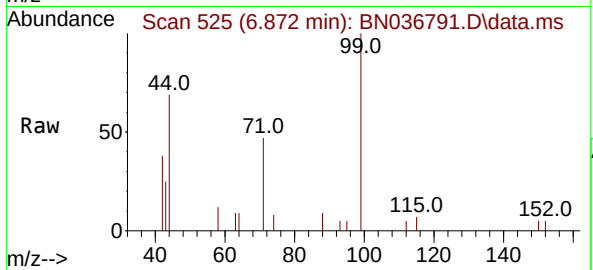
#5
Phenol-d6
Concen: 0.350 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.029 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 1838
Ion Ratio Lower Upper
99 100
42 38.7 26.5 39.7
71 46.1 34.1 51.1

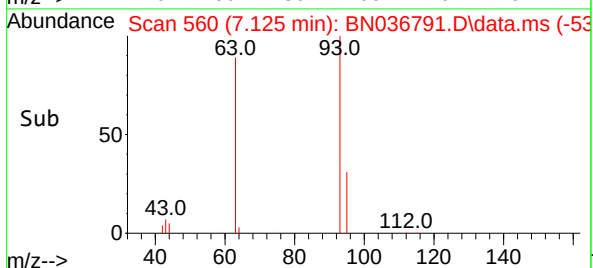
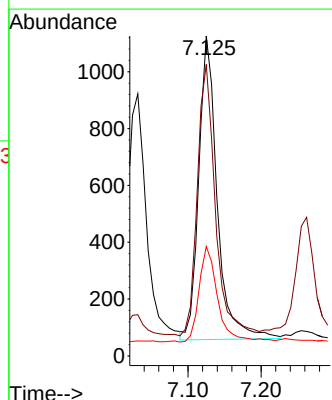
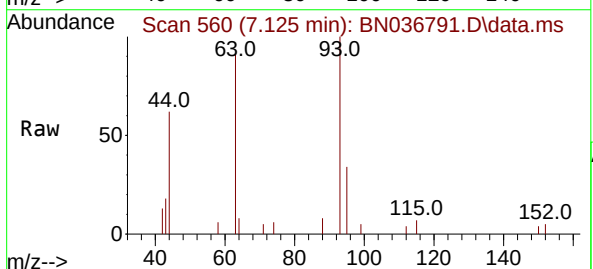
Manual Integrations
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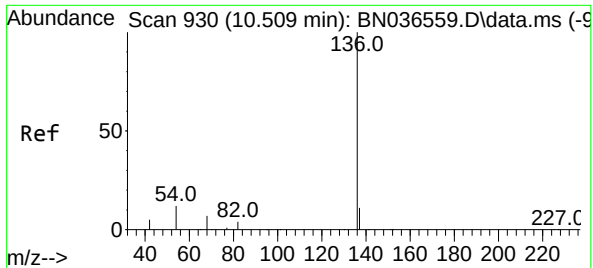
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.346 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

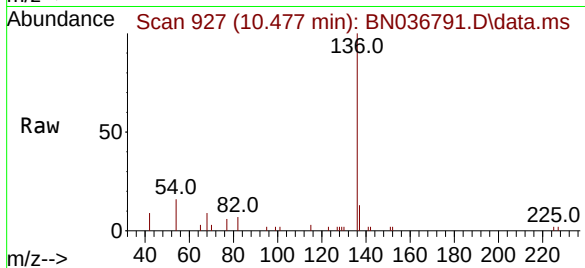
Tgt Ion: 93 Resp: 1880
Ion Ratio Lower Upper
93 100
63 85.9 67.7 101.5
95 31.5 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

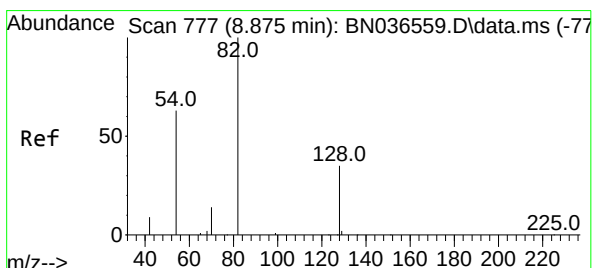
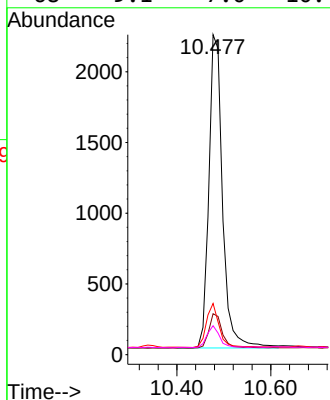
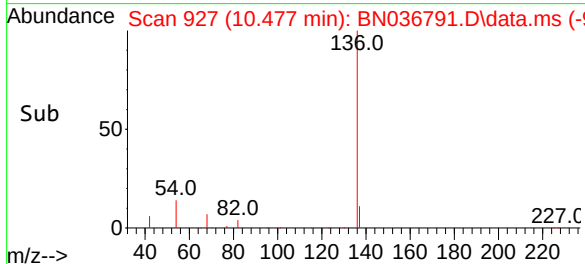
Instrument :
BNA_N
ClientSampleId :
SSTCCCC0.4



Tgt Ion: 136 Resp: 4490
Ion Ratio Lower Upper
136 100
137 12.8 10.3 15.5
54 16.0 11.5 17.3
68 9.1 7.0 10.4

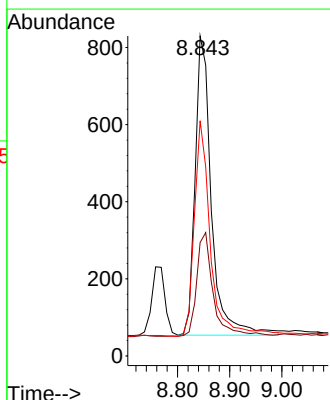
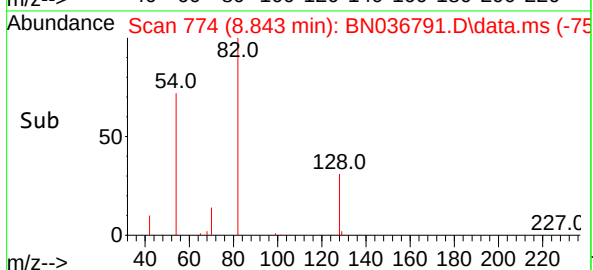
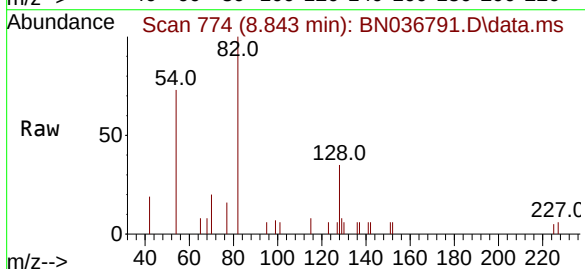
Manual Integrations
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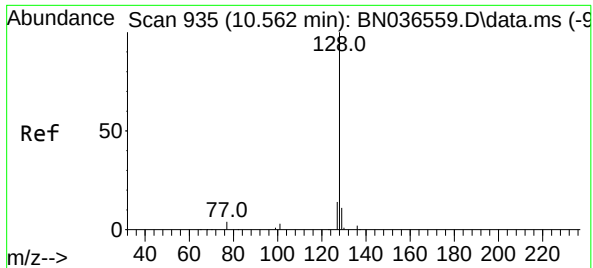
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 82 Resp: 1689
Ion Ratio Lower Upper
82 100
128 35.4 30.6 45.8
54 73.5 52.2 78.4





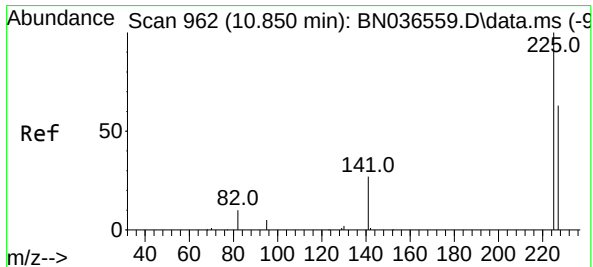
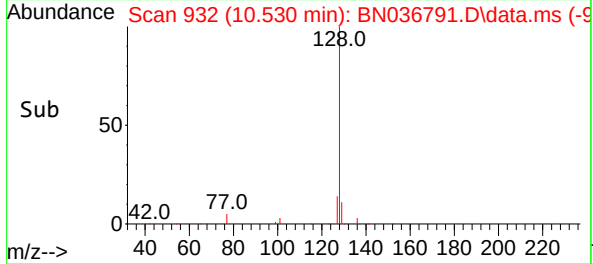
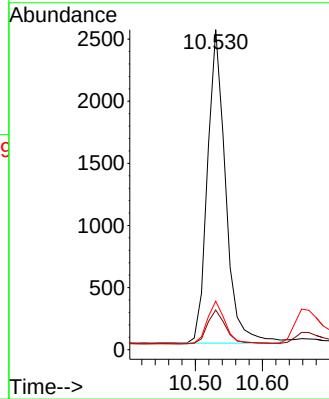
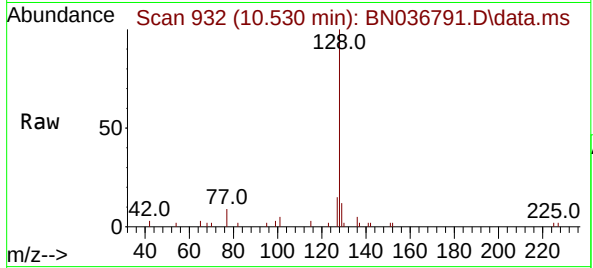
#9
Naphthalene
Concen: 0.359 ng
RT: 10.530 min Scan# 911
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 4740
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 15.2 11.8 17.8

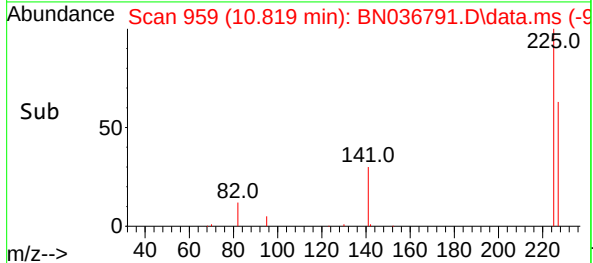
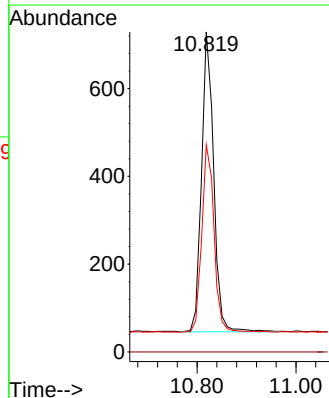
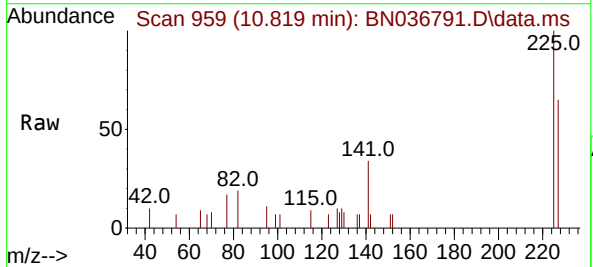
Manual Integrations
APPROVED

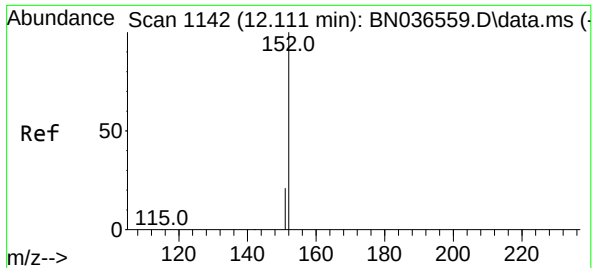
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#10
Hexachlorobutadiene
Concen: 0.373 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

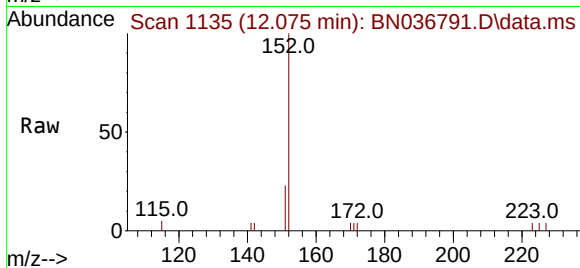
Tgt Ion:225 Resp: 1160
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 51.8 77.8





#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.075 min Scan# 1135
Delta R.T. -0.035 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

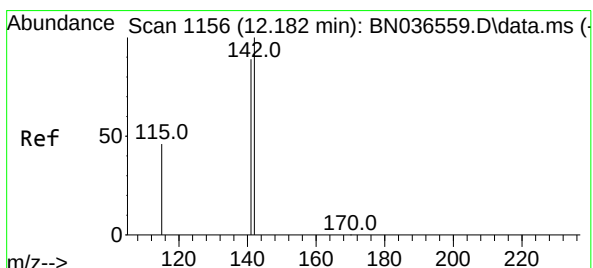
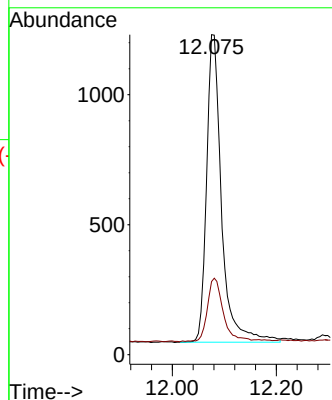
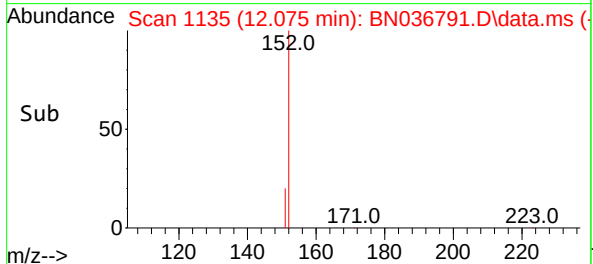
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 236
Ion Ratio Lower Upper
152 100
151 21.9 17.0 25.6

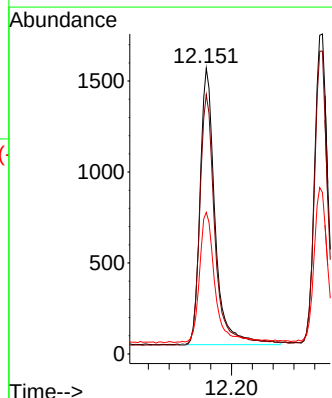
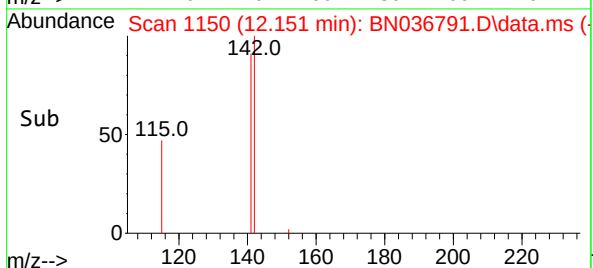
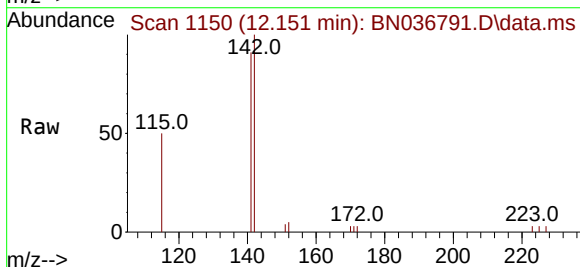
Manual Integrations
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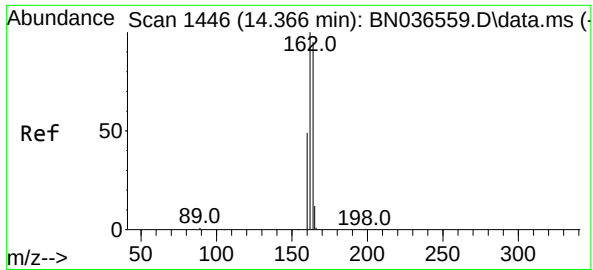
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#12
2-Methylnaphthalene
Concen: 0.362 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

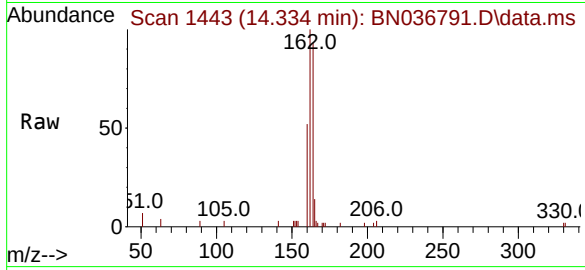
Tgt Ion:142 Resp: 3044
Ion Ratio Lower Upper
142 100
141 90.8 71.7 107.5
115 49.5 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

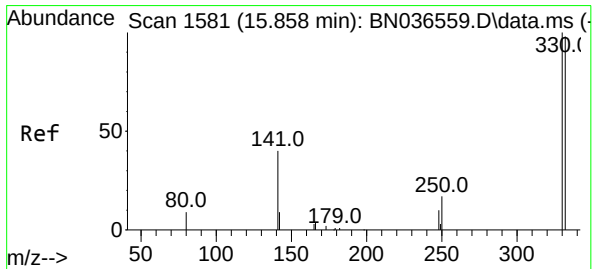
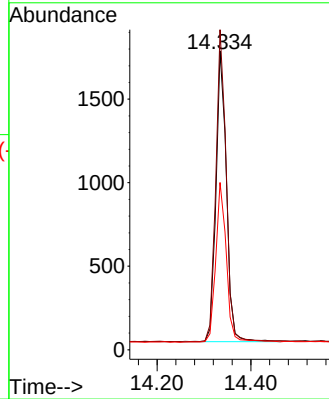
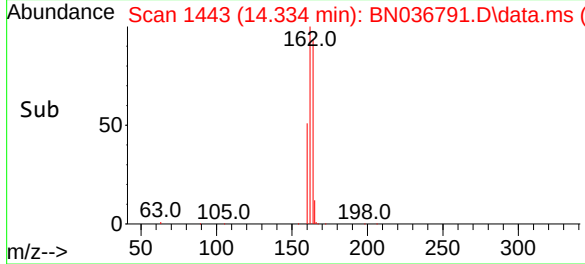
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



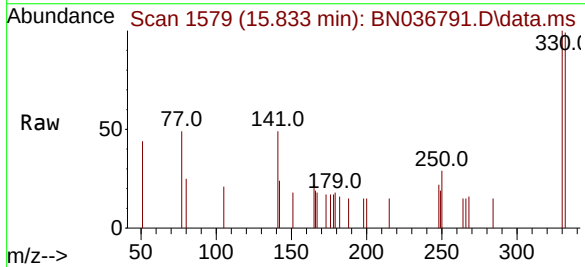
Tgt Ion:164 Resp: 270
Ion Ratio Lower Upper
164 100
162 107.1 84.2 126.2
160 56.0 42.2 63.2

Manual Integrations
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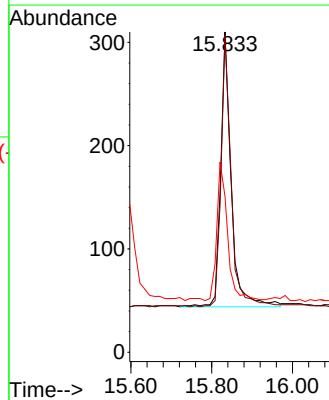
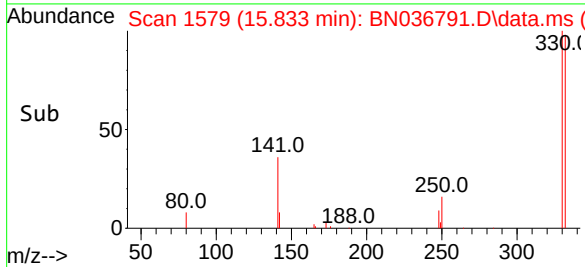
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

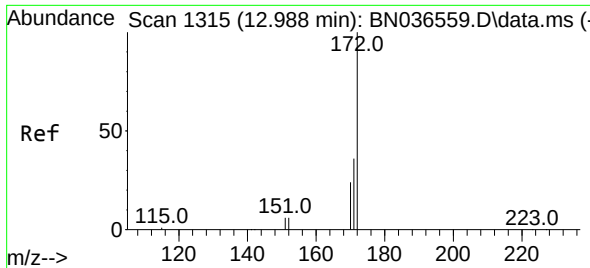


#14
2,4,6-Tribromophenol
Concen: 0.392 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44



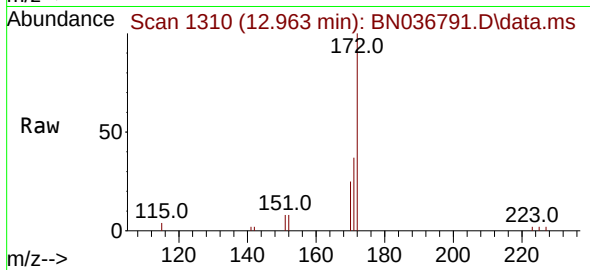
Tgt Ion:330 Resp: 481
Ion Ratio Lower Upper
330 100
332 94.4 75.2 112.8
141 51.4 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.351 ng
RT: 12.963 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

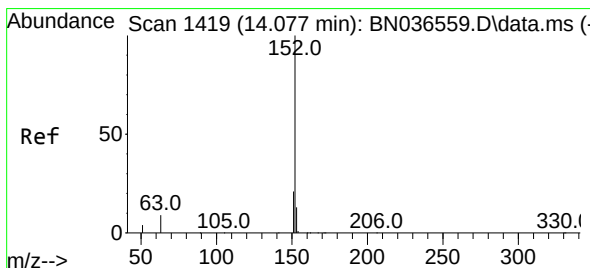
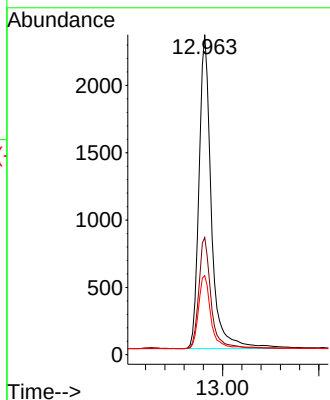
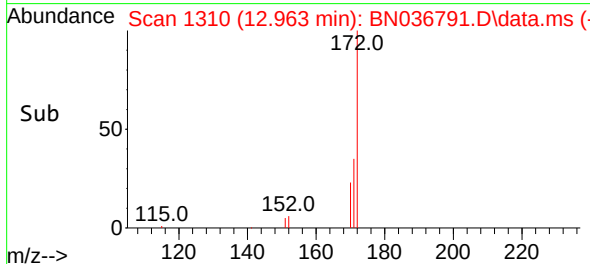
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:172 Resp: 551
Ion Ratio Lower Upper
172 100
171 36.6 29.5 44.3
170 24.7 20.2 30.4

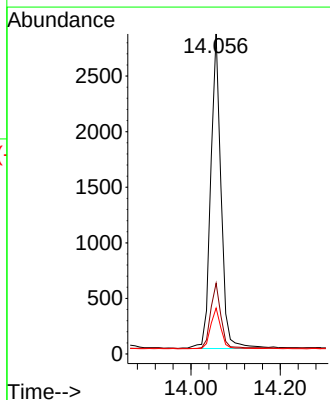
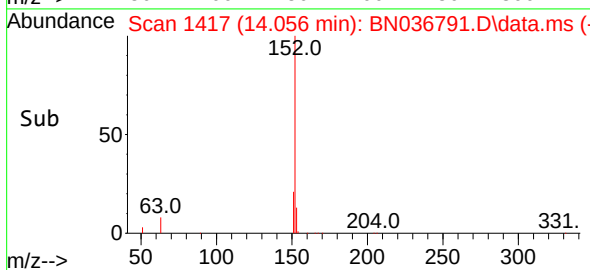
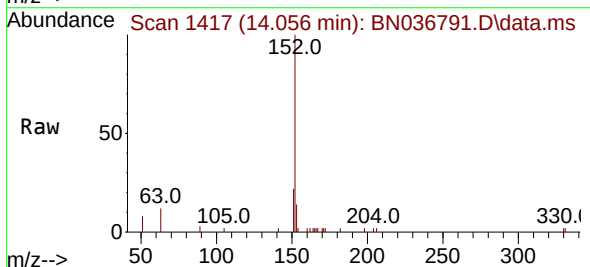
Manual Integrations
APPROVED

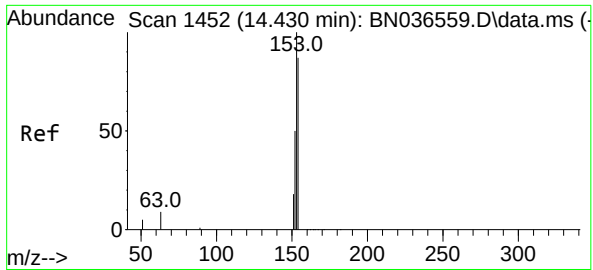
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#16
Acenaphthylene
Concen: 0.356 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:152 Resp: 4532
Ion Ratio Lower Upper
152 100
151 21.1 16.2 24.4
153 13.0 10.6 15.8





#17

Acenaphthene

Concen: 0.367 ng

RT: 14.398 min Scan# 1449

Delta R.T. -0.032 min

Lab File: BN036791.D

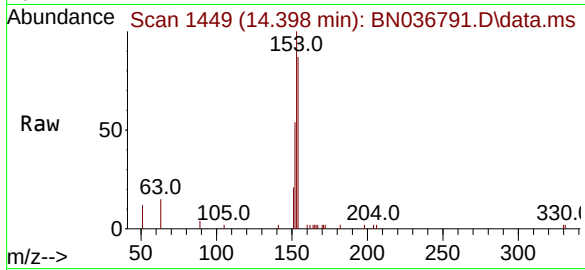
Acq: 29 Mar 2025 02:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



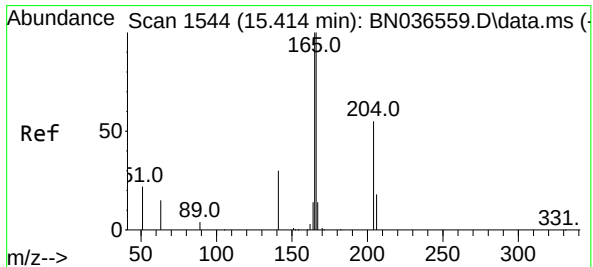
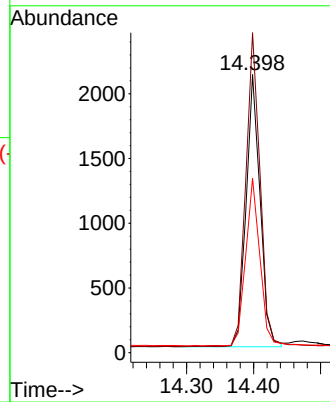
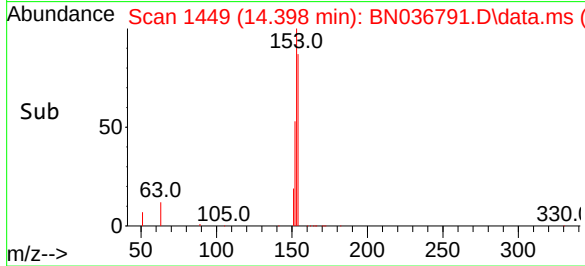
Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.0	94.1	141.1
152	62.9	49.8	74.6

Manual Integrations

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Supervised By :Jagrut Upadhyay 03/31/2025



#18

Fluorene

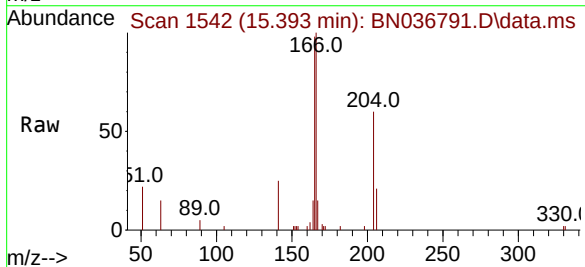
Concen: 0.373 ng

RT: 15.393 min Scan# 1542

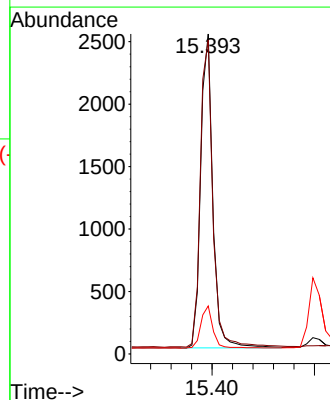
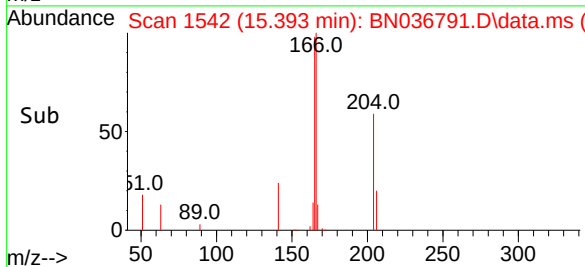
Delta R.T. -0.021 min

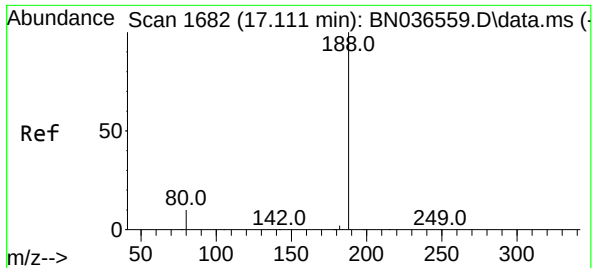
Lab File: BN036791.D

Acq: 29 Mar 2025 02:44



Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.0	79.8	119.8
167	13.4	10.6	15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 11

Delta R.T. -0.025 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

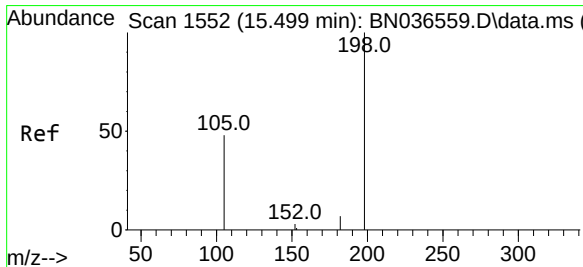
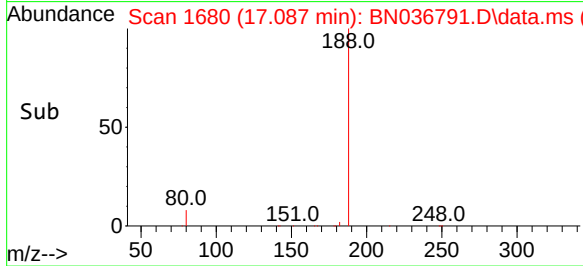
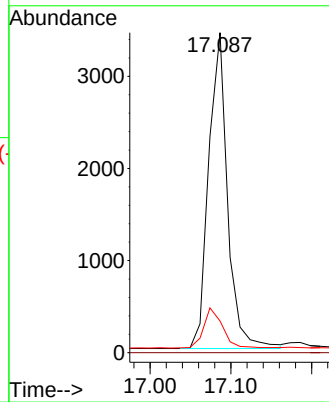
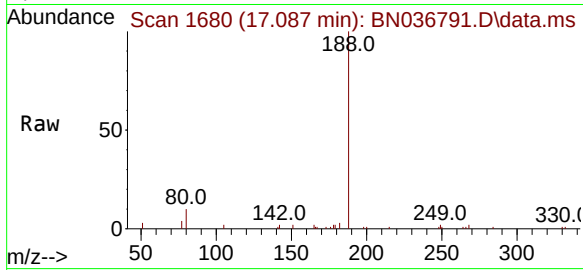
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.9	8.8	13.2

Manual Integrations

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Reviewed By :Anahy Claudio 03/31/2025

Supervised By :Jagrut Upadhyay 03/31/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.423 ng

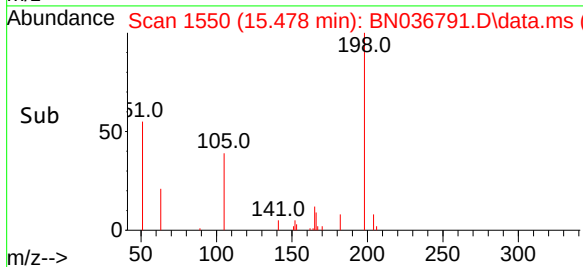
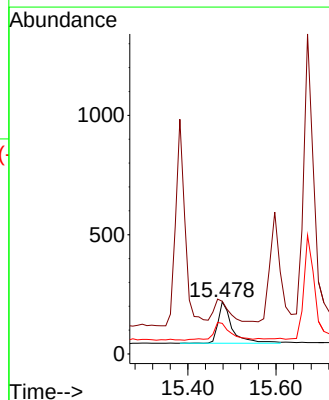
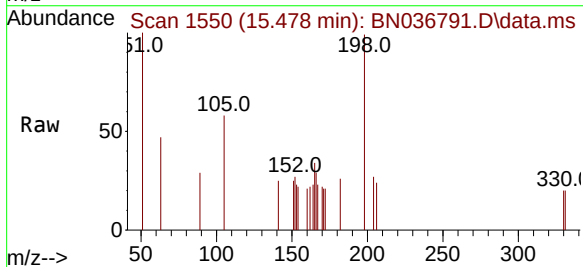
RT: 15.478 min Scan# 1550

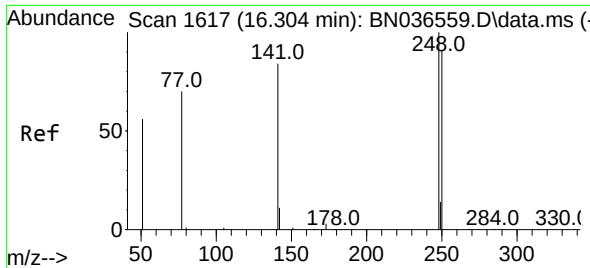
Delta R.T. -0.021 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

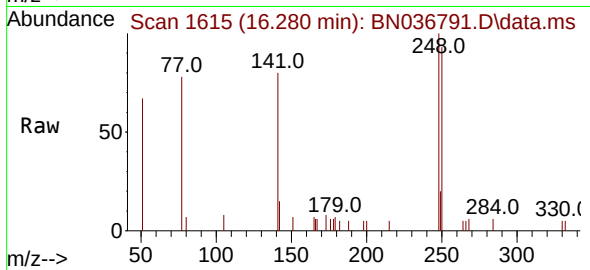
Tgt Ion	Ratio	Lower	Upper
198	100		
51	100.9	107.9	161.9#
105	58.4	56.2	84.2





#21
4-Bromophenyl-phenylether
Concen: 0.388 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

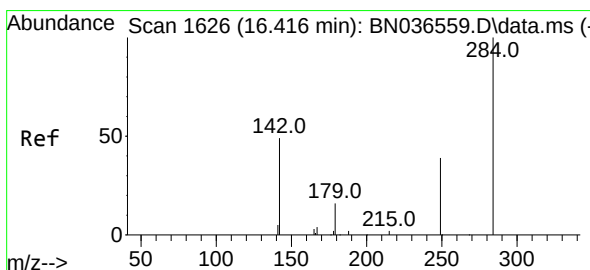
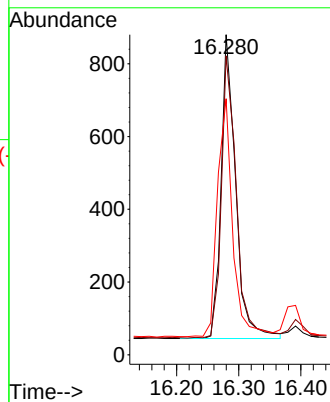
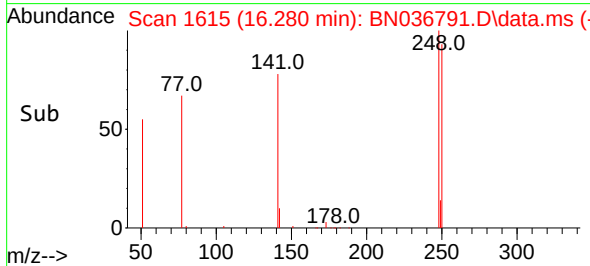
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



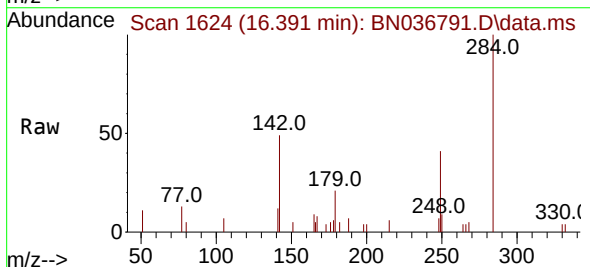
Tgt Ion:248 Resp: 135
Ion Ratio Lower Upper
248 100
250 93.4 73.0 109.6
141 80.0 68.6 103.0

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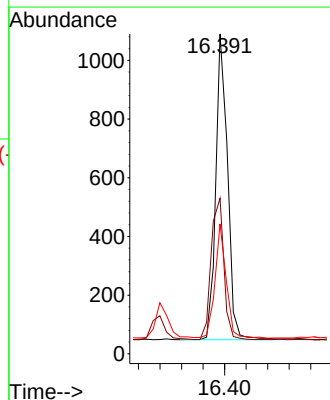
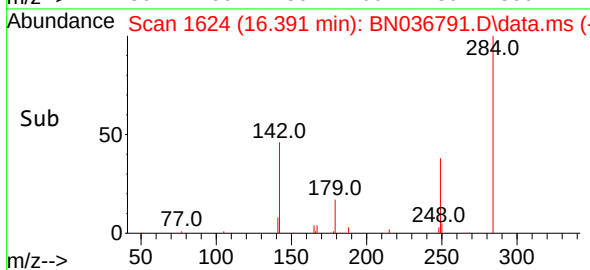
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

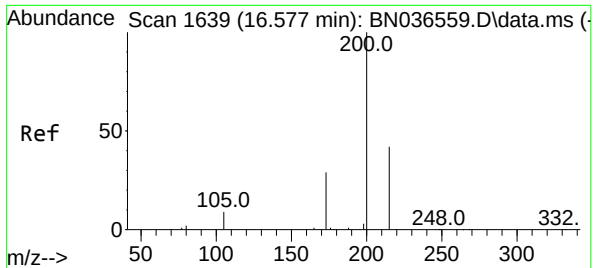


#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44



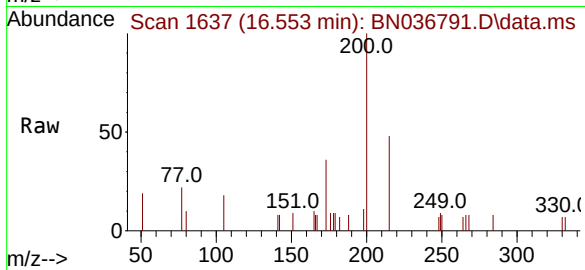
Tgt Ion:284 Resp: 1582
Ion Ratio Lower Upper
284 100
142 49.7 37.0 55.4
249 35.6 28.1 42.1





#23
Atrazine
Concen: 0.389 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

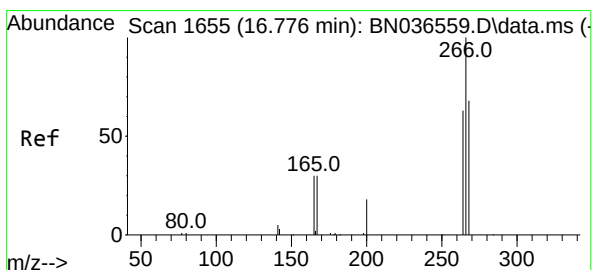
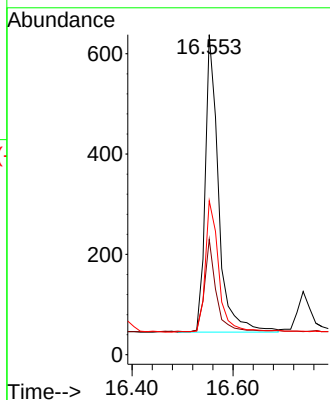
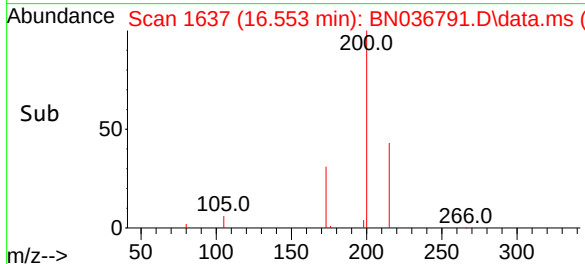
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 1090
Ion Ratio Lower Upper
200 100
173 36.1 27.3 40.9
215 48.1 36.8 55.2

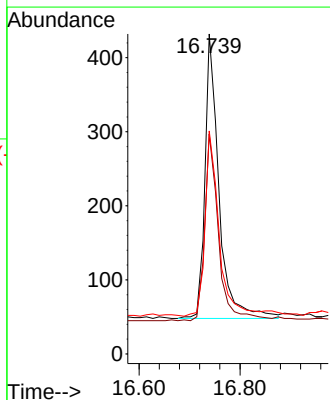
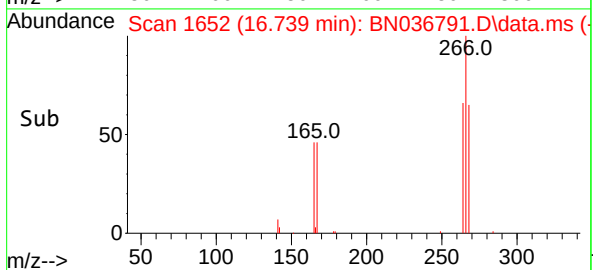
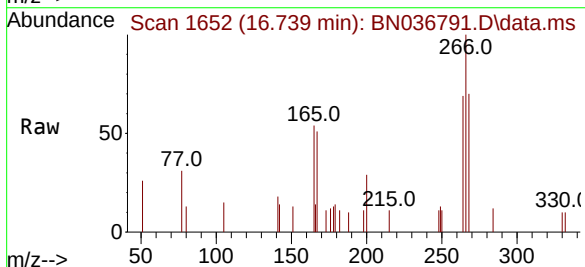
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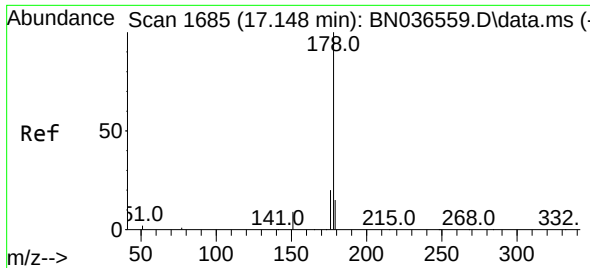
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#24
Pentachlorophenol
Concen: 0.385 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

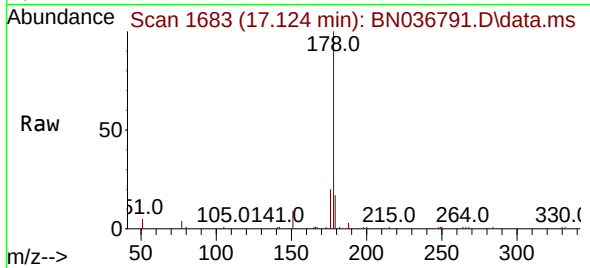
Tgt Ion:266 Resp: 740
Ion Ratio Lower Upper
266 100
264 64.5 49.6 74.4
268 64.9 50.9 76.3





#25
Phenanthrene
Concen: 0.384 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

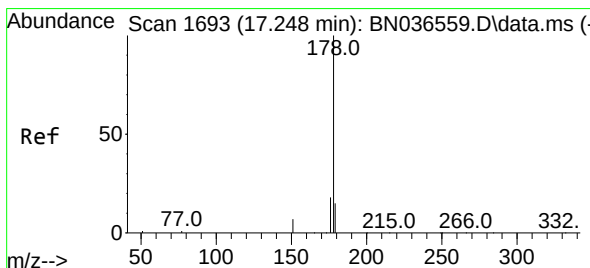
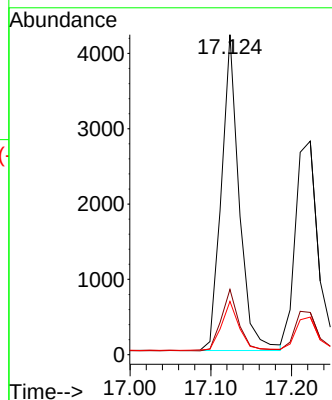
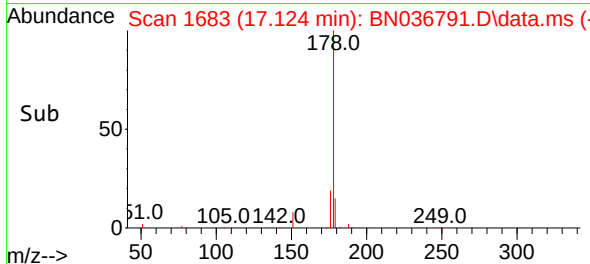
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:178 Resp: 6410
Ion Ratio Lower Upper
178 100
176 19.3 15.9 23.9
179 16.0 12.2 18.4

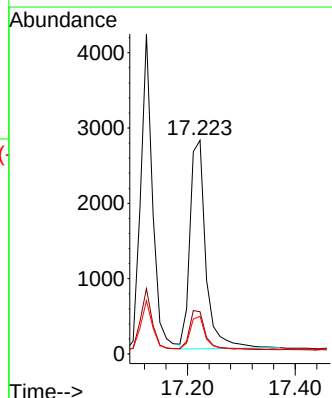
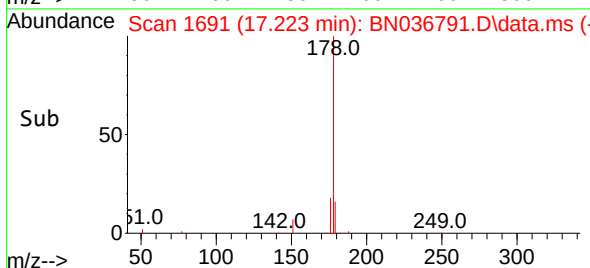
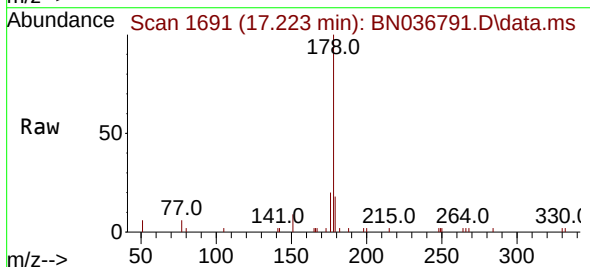
Manual Integrations
APPROVED

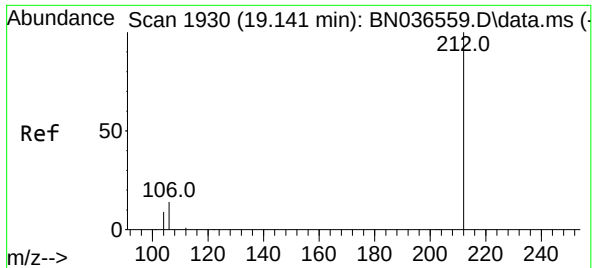
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#26
Anthracene
Concen: 0.376 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:178 Resp: 5669
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.5 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.403 ng

RT: 19.118 min Scan# 1930

Delta R.T. -0.023 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

Instrument :

BNA_N

ClientSampleId :

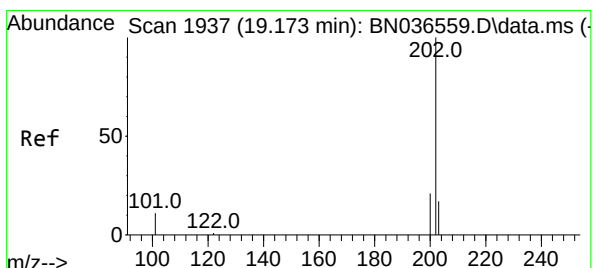
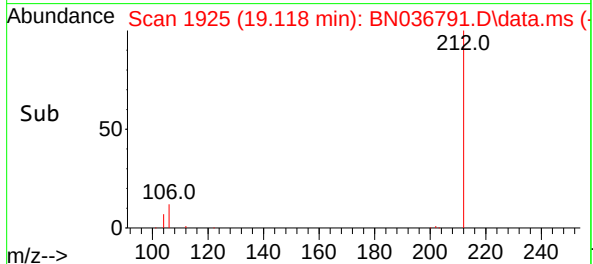
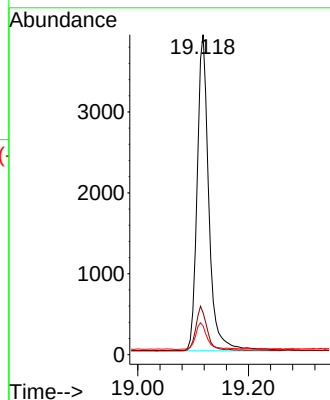
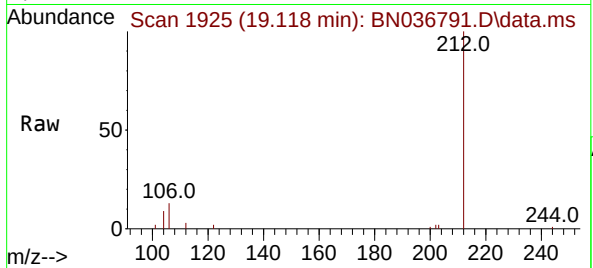
SSTDCCC0.4

Tgt Ion:	212	Resp:	575
Ion	Ratio	Lower	Upper
212	100		
106	13.2	11.8	17.6
104	8.6	7.3	10.9

Manual Integrations

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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#28

Fluoranthene

Concen: 0.415 ng

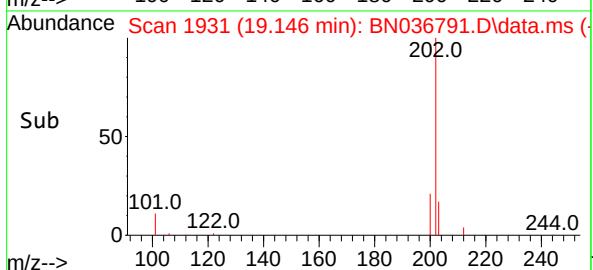
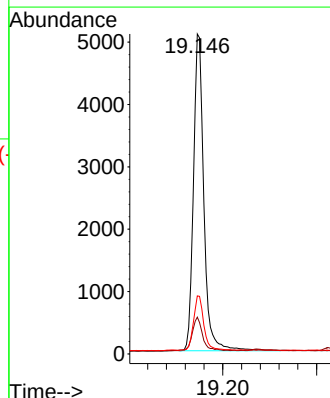
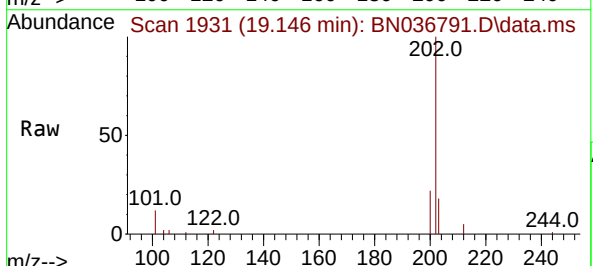
RT: 19.146 min Scan# 1931

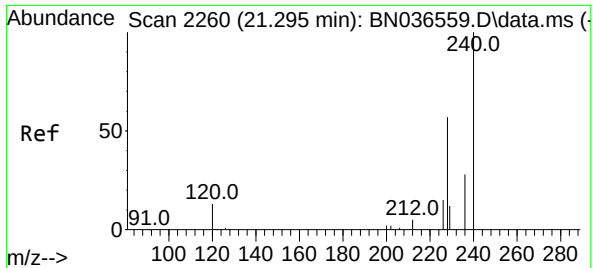
Delta R.T. -0.028 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

Tgt Ion:	202	Resp:	7784
Ion	Ratio	Lower	Upper
202	100		
101	10.4	9.4	14.0
203	16.9	13.5	20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.027 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

Instrument :

BNA_N

ClientSampleId :

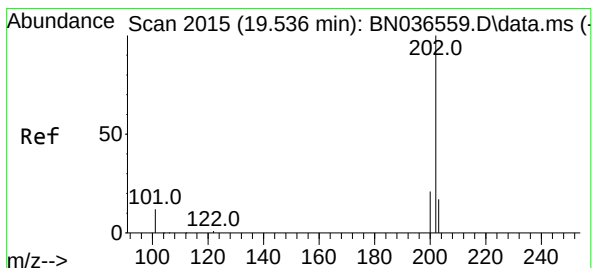
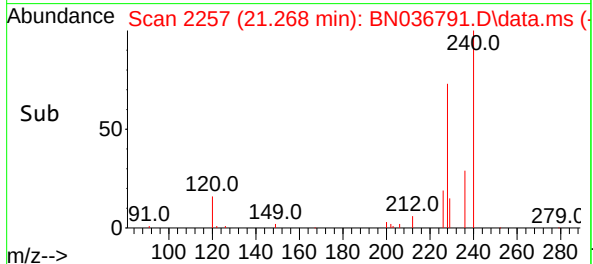
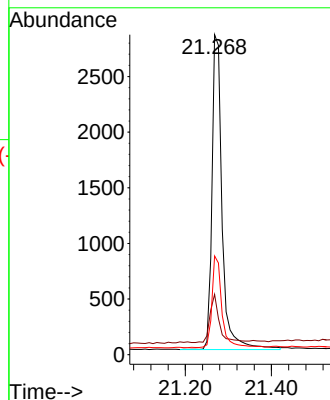
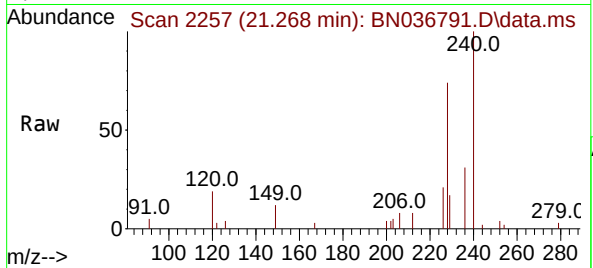
SSTDCCC0.4

Tgt Ion:	240	Resp:	4634
Ion Ratio	Lower	Upper	
240	100		
120	18.8	14.6	22.0
236	30.8	24.1	36.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#30

Pyrene

Concen: 0.351 ng

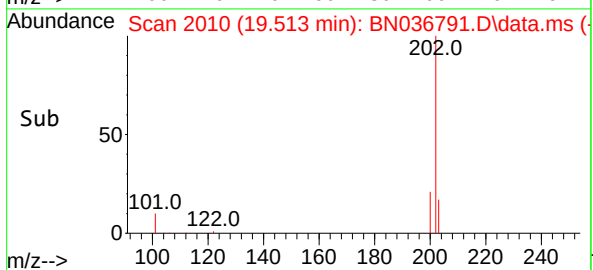
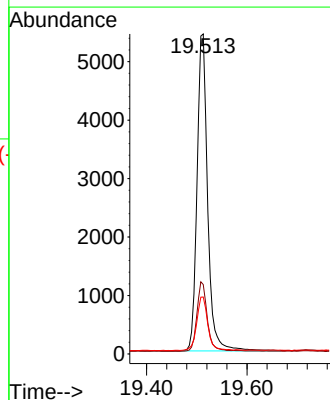
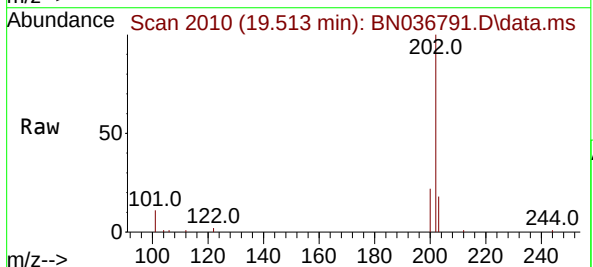
RT: 19.513 min Scan# 2010

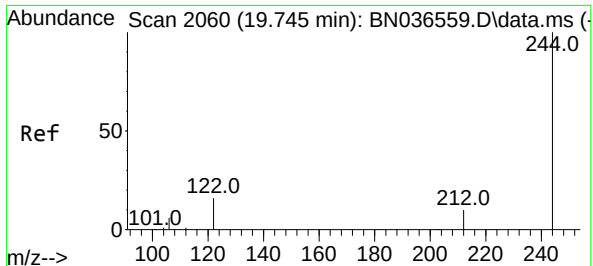
Delta R.T. -0.023 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

Tgt Ion:	202	Resp:	7947
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.1	25.7
203	17.5	14.1	21.1





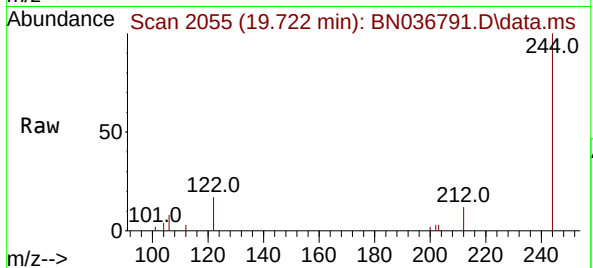
#31
Terphenyl-d14
Concen: 0.326 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

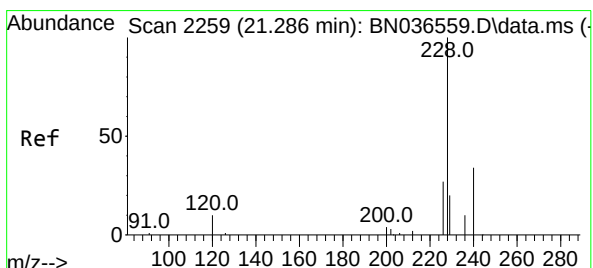
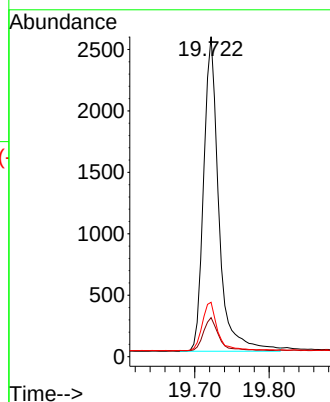
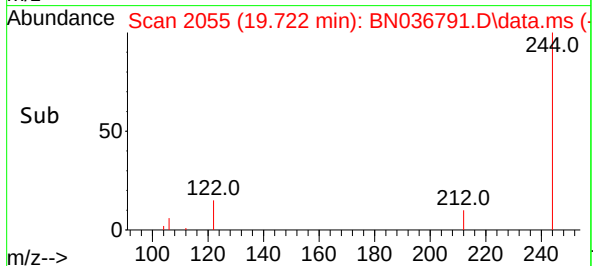


Tgt Ion:244 Resp: 362
Ion Ratio Lower Upper
244 100
212 12.2 9.6 14.4
122 17.0 13.9 20.9

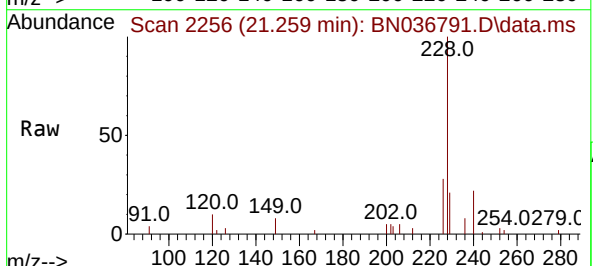
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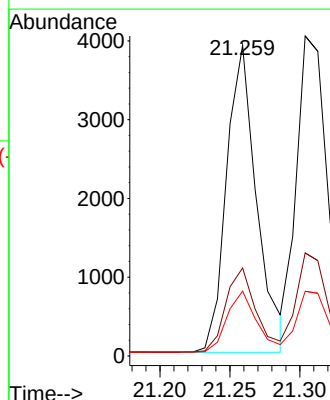
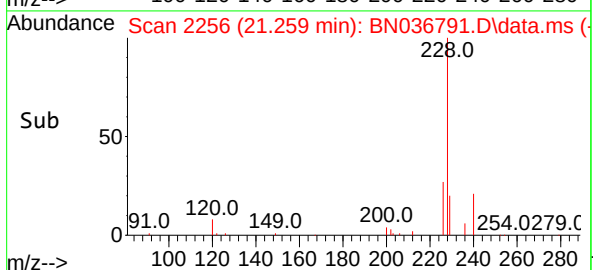
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

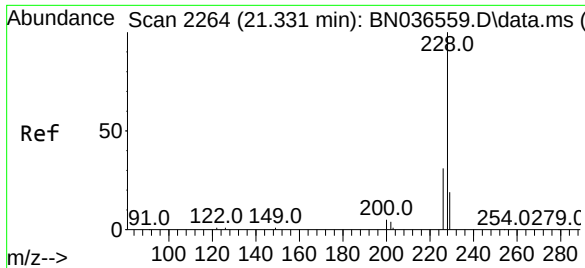


#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44



Tgt Ion:228 Resp: 5842
Ion Ratio Lower Upper
228 100
226 28.3 22.5 33.7
229 20.9 16.6 25.0





#33

Chrysene

Concen: 0.385 ng

RT: 21.304 min Scan# 21

Delta R.T. -0.027 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

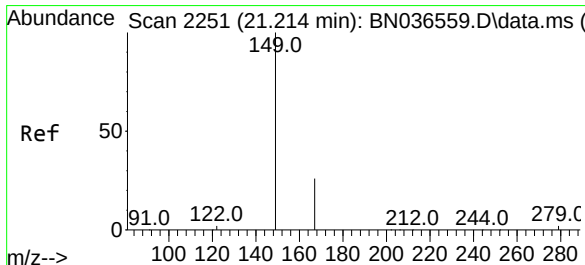
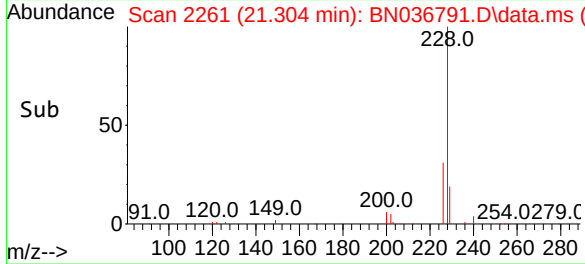
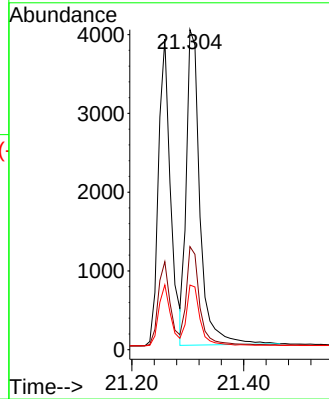
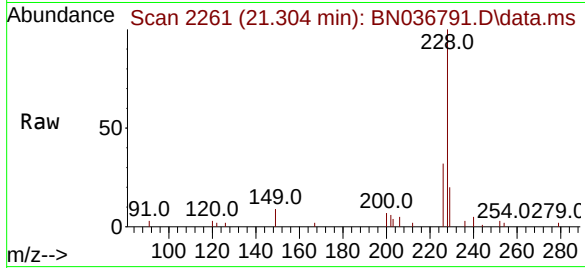
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:	228	Resp:	678
Ion Ratio	Lower	Upper	
228	100		
226	32.2	25.3	37.9
229	20.2	15.8	23.8

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Supervised By :Jagrut Upadhyay 03/31/2025

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.380 ng

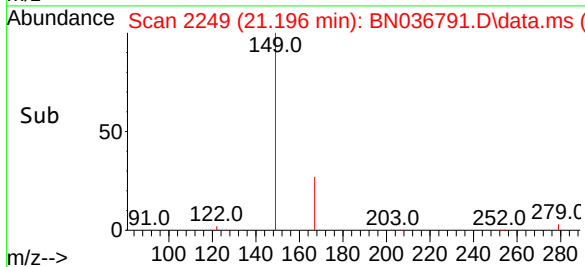
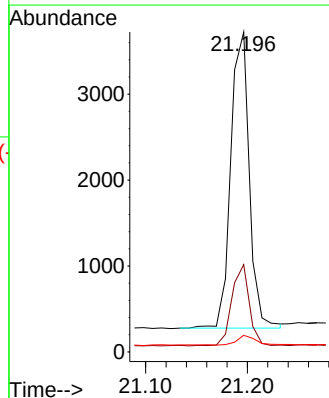
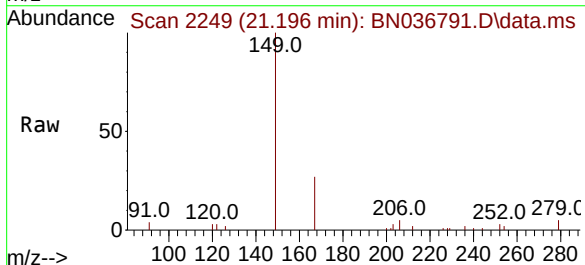
RT: 21.196 min Scan# 2249

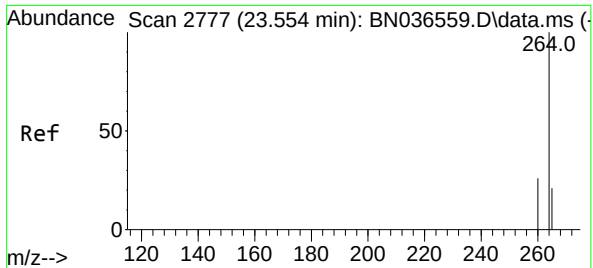
Delta R.T. -0.018 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

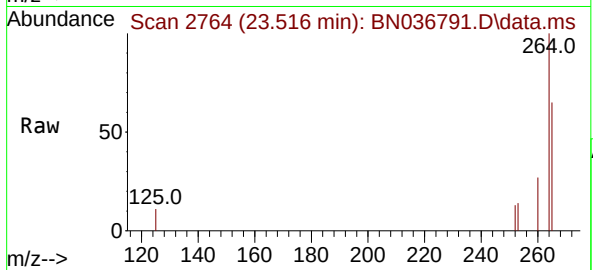
Tgt Ion:	149	Resp:	4355
Ion Ratio	Lower	Upper	
149	100		
167	25.9	20.7	31.1
279	3.3	3.6	5.4





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 21
Delta R.T. -0.038 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

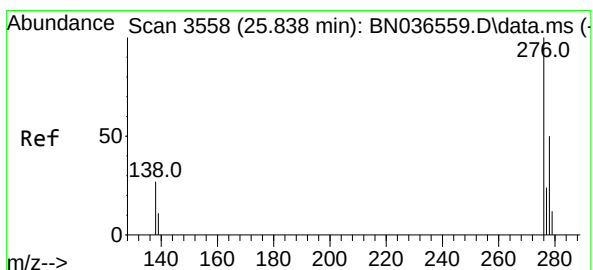
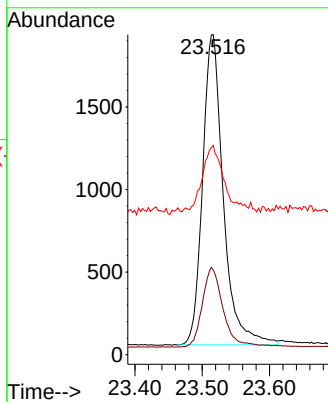
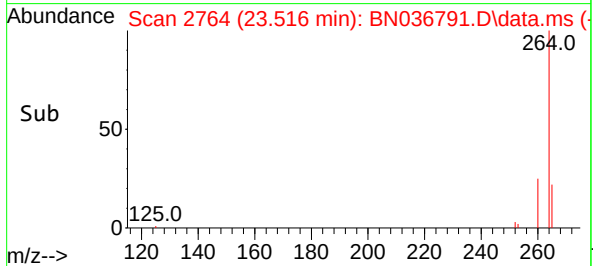
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 403
Ion Ratio Lower Upper
264 100
260 26.5 22.6 33.8
265 65.4 88.1 132.1

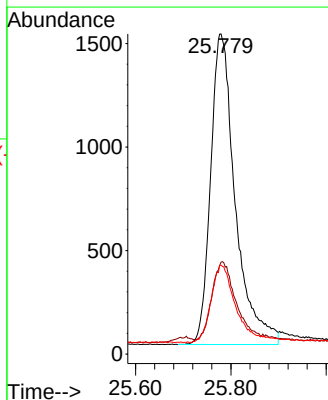
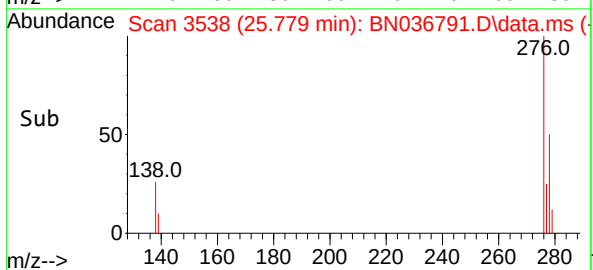
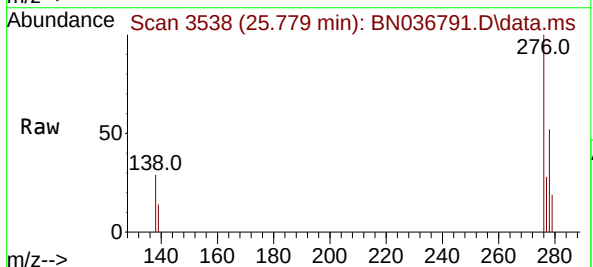
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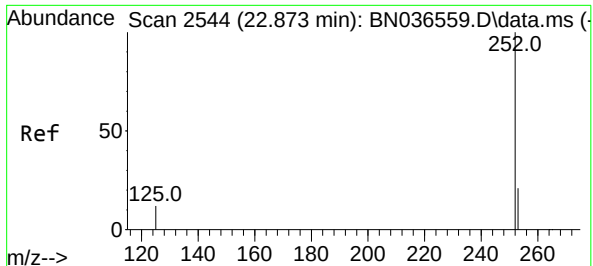
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.372 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:276 Resp: 5407
Ion Ratio Lower Upper
276 100
138 24.1 23.4 35.2
277 25.4 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.383 ng

RT: 22.841 min Scan# 21

Delta R.T. -0.032 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

Instrument :

BNA_N

ClientSampleId :

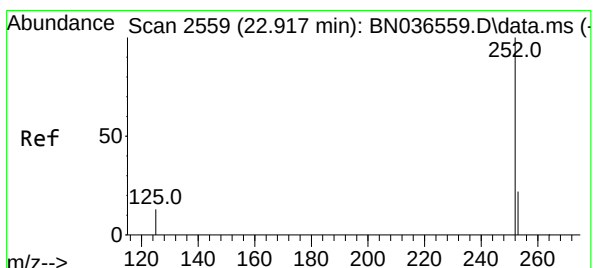
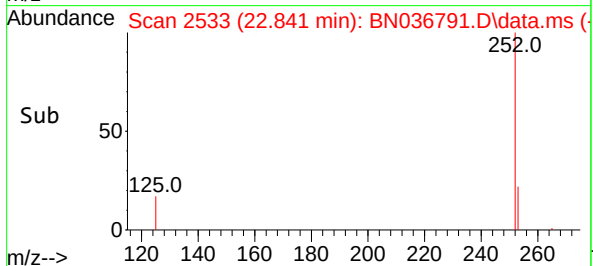
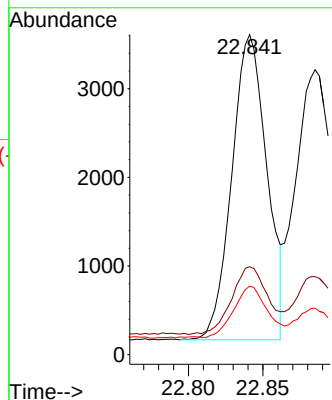
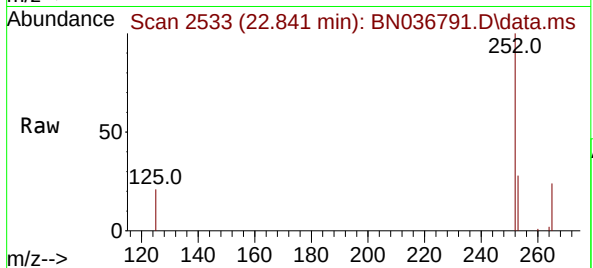
SSTDCCC0.4

Tgt Ion:	252	Resp:	562
Ion Ratio	Lower	Upper	
252	100		
253	27.5	23.9	35.9
125	21.4	17.4	26.2

Manual Integrations

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Supervised By :Jagrut Upadhyay 03/31/2025



#38

Benzo(k)fluoranthene

Concen: 0.400 ng m

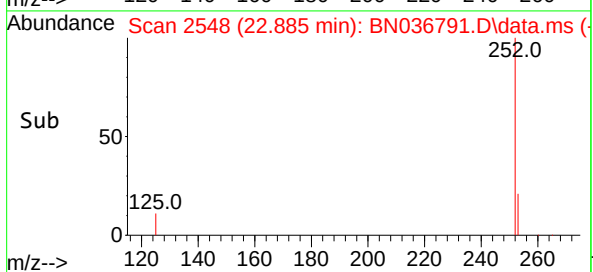
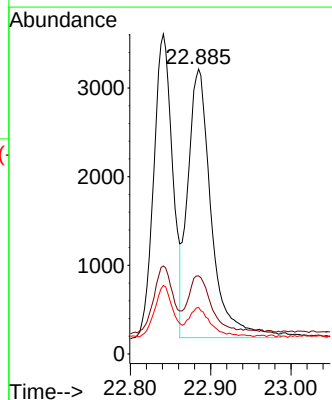
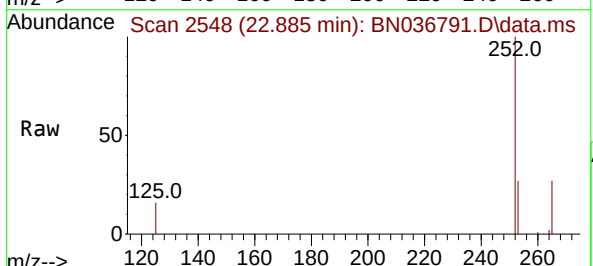
RT: 22.885 min Scan# 2548

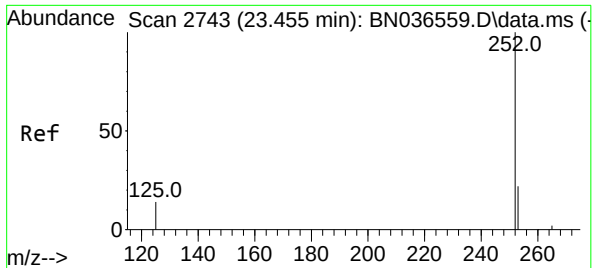
Delta R.T. -0.032 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

Tgt Ion:	252	Resp:	6157
Ion Ratio	Lower	Upper	
252	100		
253	27.4	24.6	36.8
125	16.4	17.8	26.8#





#39

Benzo(a)pyrene

Concen: 0.404 ng

RT: 23.417 min Scan# 21

Delta R.T. -0.038 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

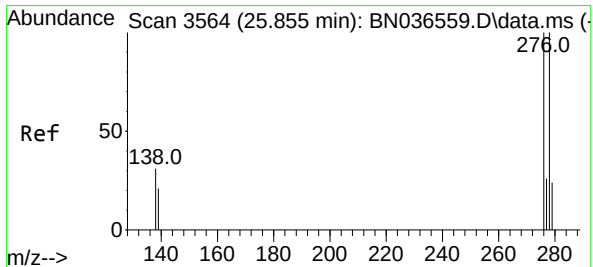
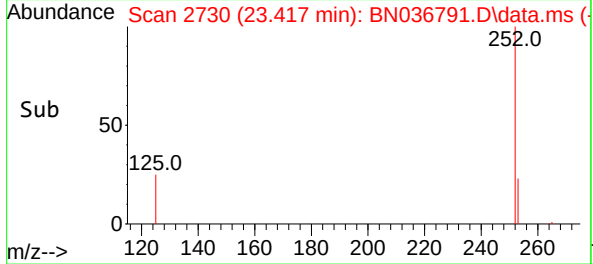
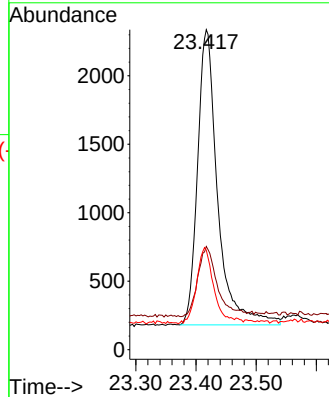
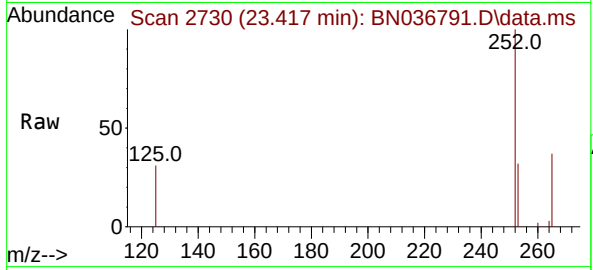
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:	252	Resp:	499
Ion Ratio	Lower	Upper	
252	100		
253	32.3	27.8	41.8
125	31.1	22.7	34.1

Manual Integrations
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Supervised By :Jagrut Upadhyay 03/31/2025

#40

Dibenzo(a,h)anthracene

Concen: 0.366 ng

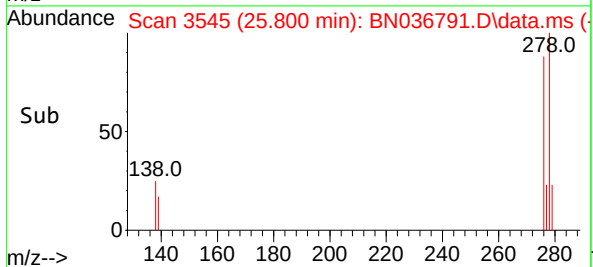
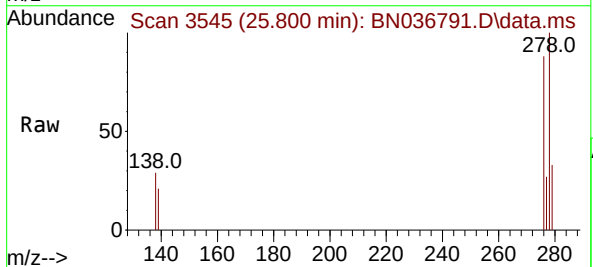
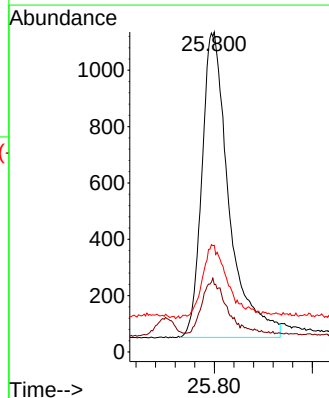
RT: 25.800 min Scan# 3545

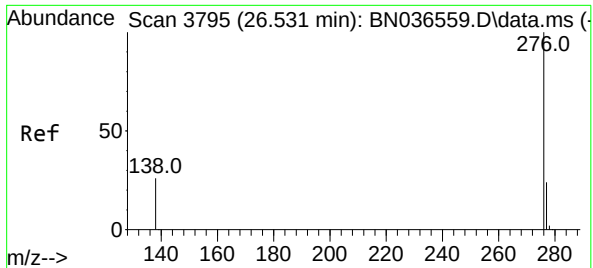
Delta R.T. -0.055 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

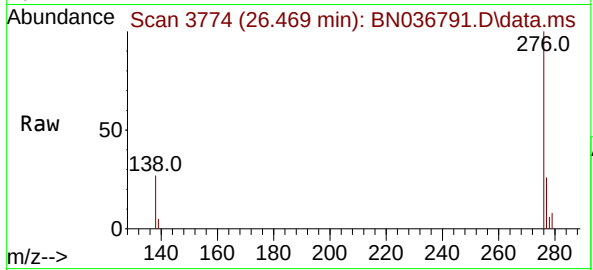
Tgt Ion:	278	Resp:	4150
Ion Ratio	Lower	Upper	
278	100		
139	21.1	20.8	31.2
279	33.4	28.8	43.2





#41
Benzo(g,h,i)perylene
Concen: 0.376 ng
RT: 26.469 min Scan# 31
Delta R.T. -0.061 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

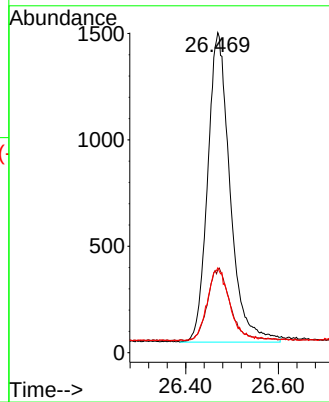
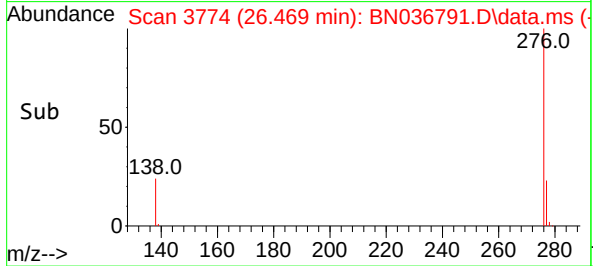
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 276 Resp: 4870
Ion Ratio Lower Upper
276 100
277 25.9 22.2 33.4
138 26.5 24.1 36.1

Manual Integrations
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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036791.D
Acq On : 29 Mar 2025 02:44
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 29 04:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	83	-0.03
2	1,4-Dioxane	0.444	0.453	-2.0	75	-0.01
3	n-Nitrosodimethylamine	0.898	0.962	-7.1	85	0.00
4 S	2-Fluorophenol	0.932	0.833	10.6	70	-0.02
5 S	Phenol-d6	1.152	1.007	12.6	74	-0.03
6	bis(2-Chloroethyl)ether	1.190	1.030	13.4	72	-0.03
7 I	Naphthalene-d8	1.000	1.000	0.0	88	-0.03
8 S	Nitrobenzene-d5	0.435	0.376	13.6	80	-0.03
9	Naphthalene	1.177	1.056	10.3	77	-0.03
10	Hexachlorobutadiene	0.277	0.258	6.9	77	-0.03
11 SURR	2-Methylnaphthalene-d10	0.595	0.526	11.6	77	-0.04
12	2-Methylnaphthalene	0.749	0.678	9.5	78	-0.03
13 I	Acenaphthene-d10	1.000	1.000	0.0	89	-0.03
14 S	2,4,6-Tribromophenol	0.182	0.178	2.2	85	-0.02
15 S	2-Fluorobiphenyl	2.327	2.041	12.3	76	-0.03
16	Acenaphthylene	1.888	1.678	11.1	77	-0.02
17	Acenaphthene	1.236	1.134	8.3	79	-0.03
18	Fluorene	1.672	1.558	6.8	79	-0.02
19 I	Phenanthrene-d10	1.000	1.000	0.0	93	-0.02
20	4,6-Dinitro-2-methylphenol	0.086	0.071	17.4	85	-0.02
21	4-Bromophenyl-phenylether	0.251	0.243	3.2	82	-0.02
22	Hexachlorobenzene	0.303	0.284	6.3	78	-0.02
23	Atrazine	0.201	0.196	2.5	85	-0.02
24	Pentachlorophenol	0.138	0.133	3.6	90	-0.04
25	Phenanthrene	1.200	1.152	4.0	82	-0.02
26	Anthracene	1.083	1.018	6.0	82	-0.02
27 SURR	Fluoranthene-d10	1.025	1.032	-0.7	86	-0.02
28	Fluoranthene	1.348	1.397	-3.6	89	-0.03
29 I	Chrysene-d12	1.000	1.000	0.0	113	-0.03
30	Pyrene	1.956	1.715	12.3	91	-0.02
31 S	Terphenyl-d14	0.958	0.782	18.4	86	-0.02
32	Benzo(a)anthracene	1.391	1.261	9.3	99	-0.03
33	Chrysene	1.520	1.463	3.7	102	-0.03
34	Bis(2-ethylhexyl)phthalate	0.990	0.940	5.1	101	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	114	-0.04
36	Indeno(1,2,3-cd)pyrene	1.444	1.341	7.1	99	-0.06
37	Benzo(b)fluoranthene	1.456	1.396	4.1	103	-0.03
38	Benzo(k)fluoranthene	1.527	1.527	0.0	107	-0.03
39 C	Benzo(a)pyrene	1.226	1.238	-1.0	108	-0.04
40	Dibenzo(a,h)anthracene	1.124	1.029	8.5	101	-0.06
41	Benzo(g,h,i)perylene	1.286	1.209	6.0	100	-0.06

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036791.D
Acq On : 29 Mar 2025 02:44
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 29 04:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	83	-0.03
2	1,4-Dioxane	0.400	0.408	-2.0	75	-0.01
3	n-Nitrosodimethylamine	0.400	0.429	-7.2	85	0.00
4 S	2-Fluorophenol	0.400	0.357	10.8	70	-0.02
5 S	Phenol-d6	0.400	0.350	12.5	74	-0.03
6	bis(2-Chloroethyl)ether	0.400	0.346	13.5	72	-0.03
7 I	Naphthalene-d8	0.400	0.400	0.0	88	-0.03
8 S	Nitrobenzene-d5	0.400	0.346	13.5	80	-0.03
9	Naphthalene	0.400	0.359	10.3	77	-0.03
10	Hexachlorobutadiene	0.400	0.373	6.8	77	-0.03
11 SURR	2-Methylnaphthalene-d10	0.400	0.354	11.5	77	-0.04
12	2-Methylnaphthalene	0.400	0.362	9.5	78	-0.03
13 I	Acenaphthene-d10	0.400	0.400	0.0	89	-0.03
14 S	2,4,6-Tribromophenol	0.400	0.392	2.0	85	-0.02
15 S	2-Fluorobiphenyl	0.400	0.351	12.3	76	-0.03
16	Acenaphthylene	0.400	0.356	11.0	77	-0.02
17	Acenaphthene	0.400	0.367	8.3	79	-0.03
18	Fluorene	0.400	0.373	6.8	79	-0.02
19 I	Phenanthrene-d10	0.400	0.400	0.0	93	-0.02
20	4,6-Dinitro-2-methylphenol	0.400	0.423	-5.7	85	-0.02
21	4-Bromophenyl-phenylether	0.400	0.388	3.0	82	-0.02
22	Hexachlorobenzene	0.400	0.375	6.3	78	-0.02
23	Atrazine	0.400	0.389	2.8	85	-0.02
24	Pentachlorophenol	0.400	0.385	3.8	90	-0.04
25	Phenanthrene	0.400	0.384	4.0	82	-0.02
26	Anthracene	0.400	0.376	6.0	82	-0.02
27 SURR	Fluoranthene-d10	0.400	0.403	-0.8	86	-0.02
28	Fluoranthene	0.400	0.415	-3.7	89	-0.03
29 I	Chrysene-d12	0.400	0.400	0.0	113	-0.03
30	Pyrene	0.400	0.351	12.3	91	-0.02
31 S	Terphenyl-d14	0.400	0.326	18.5	86	-0.02
32	Benzo(a)anthracene	0.400	0.363	9.3	99	-0.03
33	Chrysene	0.400	0.385	3.8	102	-0.03
34	Bis(2-ethylhexyl)phthalate	0.400	0.380	5.0	101	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	114	-0.04
36	Indeno(1,2,3-cd)pyrene	0.400	0.372	7.0	99	-0.06
37	Benzo(b)fluoranthene	0.400	0.383	4.3	103	-0.03
38	Benzo(k)fluoranthene	0.400	0.400	0.0	107	-0.03
39 C	Benzo(a)pyrene	0.400	0.404	-1.0	108	-0.04
40	Dibenzo(a,h)anthracene	0.400	0.366	8.5	101	-0.06
41	Benzo(g,h,i)perylene	0.400	0.376	6.0	100	-0.06

(#) = 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.: Q1620 SAS No.: Q1620 SDG No.: Q1620

Instrument ID: BNA_N Calibration Date/Time: 03/29/2025 12:21

Lab File ID: BN036807.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.526		-11.6	50.0
Fluoranthene-d10	1.025	0.985		-3.9	50.0
2-Fluorophenol	0.932	0.835		-10.4	50.0
Phenol-d6	1.152	0.978		-15.1	50.0
Nitrobenzene-d5	0.435	0.364		-16.3	50.0
2-Fluorobiphenyl	2.327	1.915		-17.7	50.0
2,4,6-Tribromophenol	0.182	0.169		-7.1	50.0
Terphenyl-d14	0.958	0.875		-8.7	50.0
1,4-Dioxane	0.444	0.456		2.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
 Data File : BN036807.D
 Acq On : 29 Mar 2025 12:21
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/31/2025
 Supervised By :Jagrut Upadhyay 03/31/2025

Quant Time: Mar 31 02:01:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1976	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	4956	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	3044	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	6169	0.400	ng	#-0.02
29) Chrysene-d12	21.268	240	4366	0.400	ng	-0.03
35) Perylene-d12	23.516	264	3818	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1649	0.358	ng	-0.02
5) Phenol-d6	6.865	99	1932	0.340	ng	-0.04
8) Nitrobenzene-d5	8.843	82	1802	0.334	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2608	0.354	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	513	0.371	ng	-0.02
15) 2-Fluorobiphenyl	12.958	172	5830	0.329	ng	-0.03
27) Fluoranthene-d10	19.118	212	6077	0.384	ng	-0.02
31) Terphenyl-d14	19.722	244	3821	0.365	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.225	88	902	0.411	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.535	42	1839	0.415	ng	92
6) bis(2-Chloroethyl)ether	7.125	93	1990	0.338	ng	99
9) Naphthalene	10.530	128	5183	0.356	ng	99
10) Hexachlorobutadiene	10.818	225	1228	0.358	ng	# 100
12) 2-Methylnaphthalene	12.151	142	3312	0.357	ng	98
16) Acenaphthylene	14.056	152	5001	0.348	ng	99
17) Acenaphthene	14.398	154	3395	0.361	ng	99
18) Fluorene	15.382	166	4624	0.364	ng	100
20) 4,6-Dinitro-2-methylph...	15.478	198	475	0.447	ng	# 73
21) 4-Bromophenyl-phenylether	16.280	248	1424	0.368	ng	93
22) Hexachlorobenzene	16.391	284	1729	0.371	ng	97
23) Atrazine	16.553	200	1168	0.377	ng	96
24) Pentachlorophenol	16.739	266	792	0.372	ng	99
25) Phenanthrene	17.124	178	6985	0.377	ng	100
26) Anthracene	17.211	178	6251	0.374	ng	98
28) Fluoranthene	19.146	202	8157	0.392	ng	98
30) Pyrene	19.508	202	8270	0.387	ng	100
32) Benzo(a)anthracene	21.259	228	5377	0.354	ng	100
33) Chrysene	21.304	228	6263	0.378	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	4162	0.385	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.779	276	5188	0.376	ng	93
37) Benzo(b)fluoranthene	22.841	252	5191	0.374	ng	98
38) Benzo(k)fluoranthene	22.885	252	5835m	0.400	ng	
39) Benzo(a)pyrene	23.417	252	4547	0.389	ng	96
40) Dibenzo(a,h)anthracene	25.800	278	4113m	0.383	ng	
41) Benzo(g,h,i)perylene	26.472	276	4558	0.371	ng	95

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

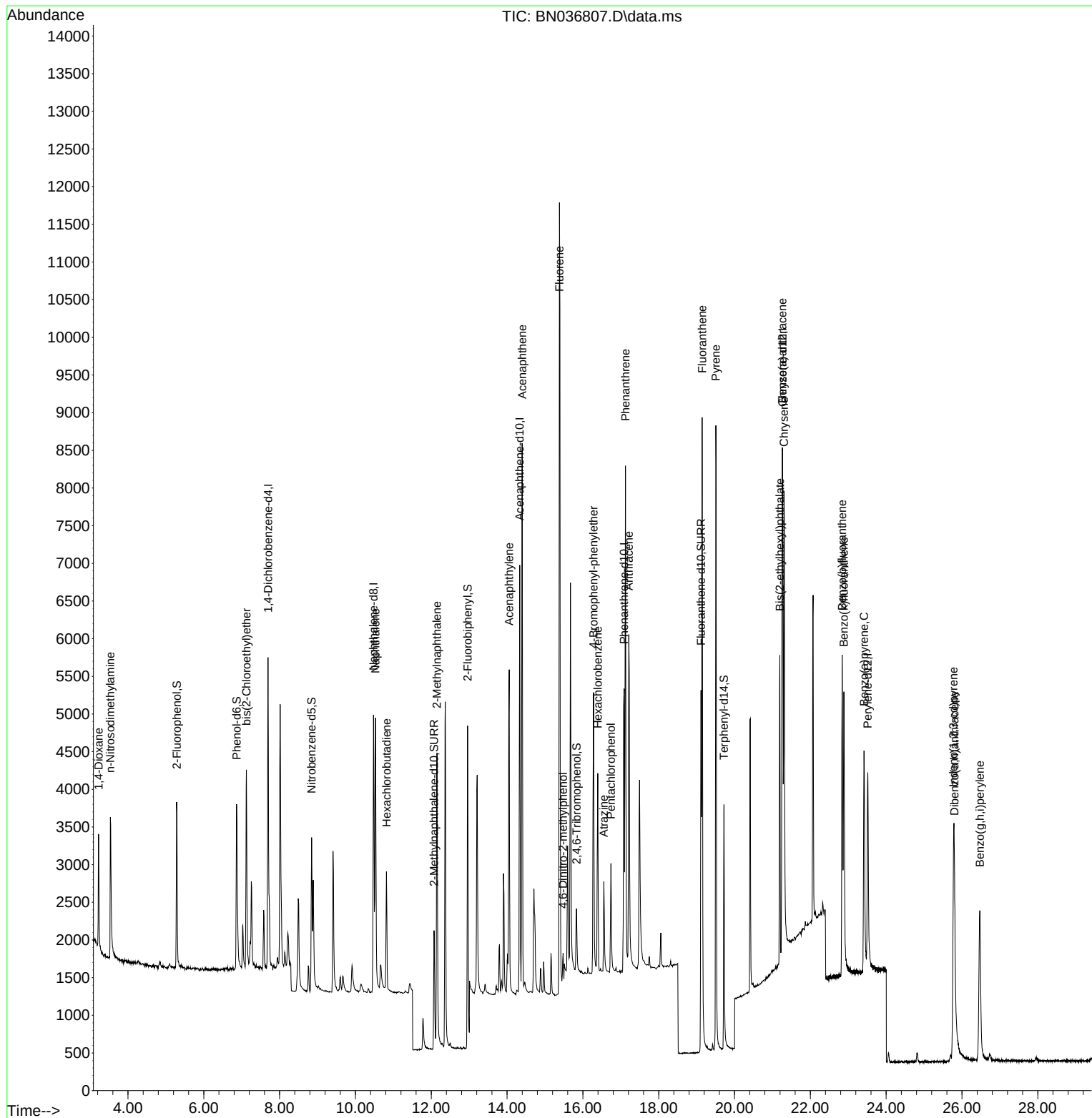
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
 Data File : BN036807.D
 Acq On : 29 Mar 2025 12:21
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

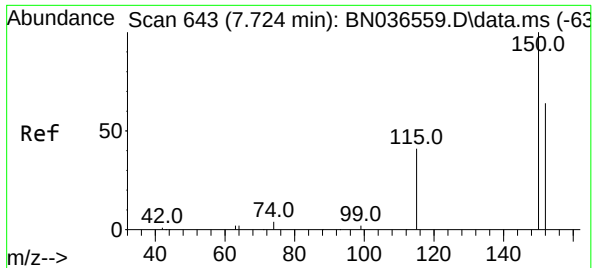
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/31/2025
 Supervised By :Jagrut Upadhyay 03/31/2025

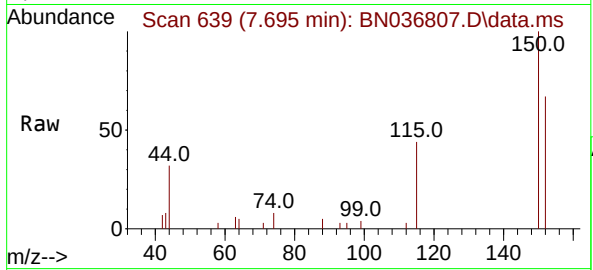
Quant Time: Mar 31 02:01:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 61
Delta R.T. -0.029 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

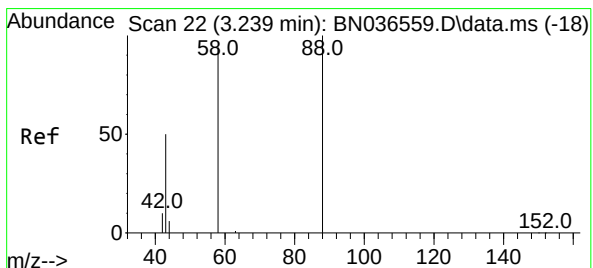
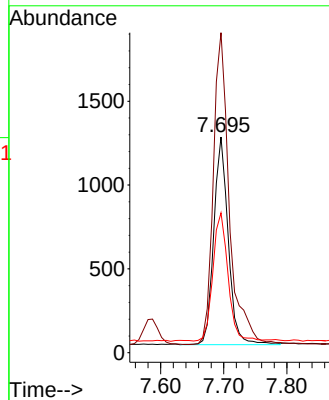
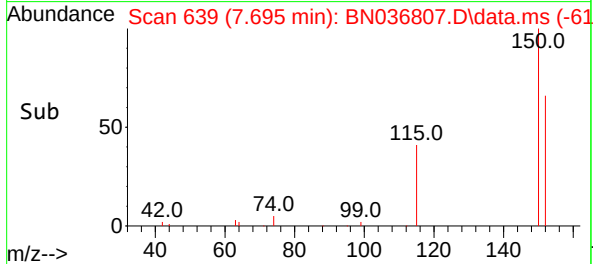
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



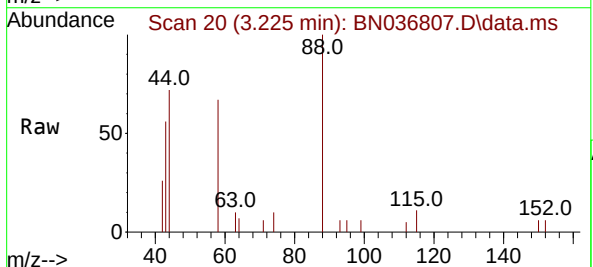
Tgt Ion: 152 Resp: 1970
Ion Ratio Lower Upper
152 100
150 148.3 123.7 185.5
115 64.8 54.3 81.5

Manual Integrations
APPROVED

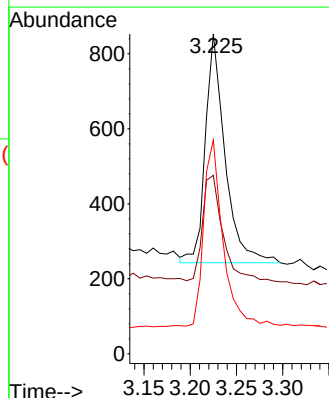
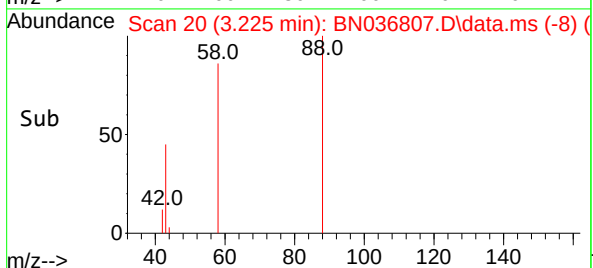
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



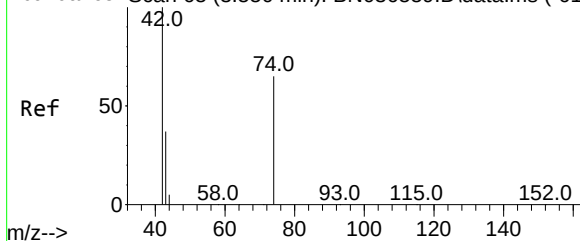
#2
1,4-Dioxane
Concen: 0.411 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21



Tgt Ion: 88 Resp: 902
Ion Ratio Lower Upper
88 100
43 48.6 37.8 56.8
58 81.3 67.4 101.2



Abundance Scan 65 (3.550 min): BN036559.D\data.ms (-61)



#3

n-Nitrosodimethylamine

Concen: 0.415 ng

RT: 3.535 min Scan# 61

Delta R.T. -0.014 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1839

Ion Ratio Lower Upper

42 100

74 68.4 60.6 90.8

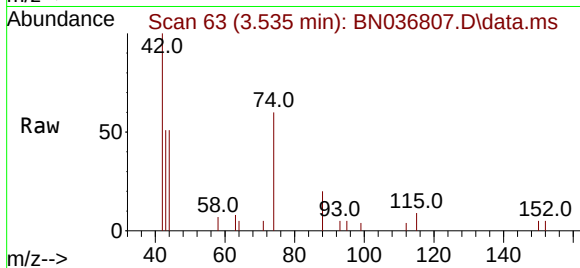
44 6.7 6.3 9.5

Manual Integrations

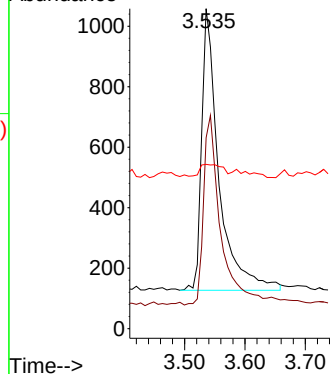
APPROVED

Reviewed By :Anahy Claudio 03/31/2025

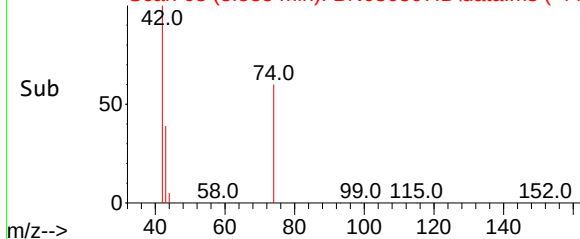
Supervised By :Jagrut Upadhyay 03/31/2025



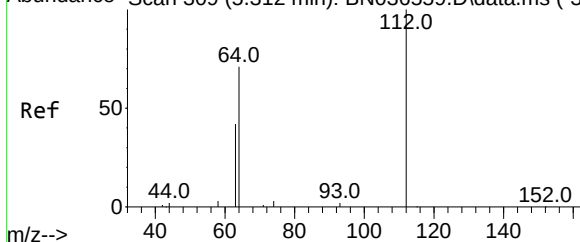
Abundance



Abundance Scan 63 (3.535 min): BN036807.D\data.ms (-44)



Abundance Scan 309 (5.312 min): BN036559.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.358 ng

RT: 5.290 min Scan# 306

Delta R.T. -0.022 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

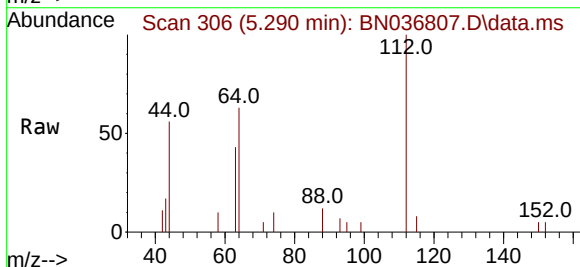
Tgt Ion:112 Resp: 1649

Ion Ratio Lower Upper

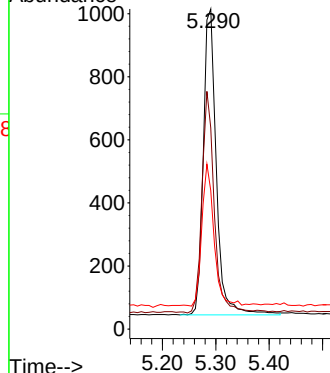
112 100

64 68.3 53.1 79.7

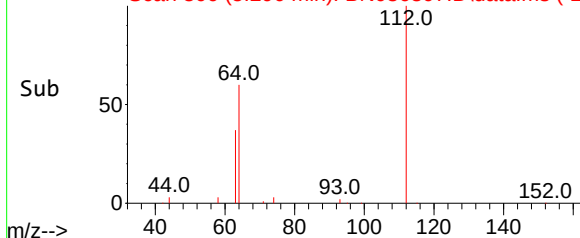
63 42.4 31.8 47.8

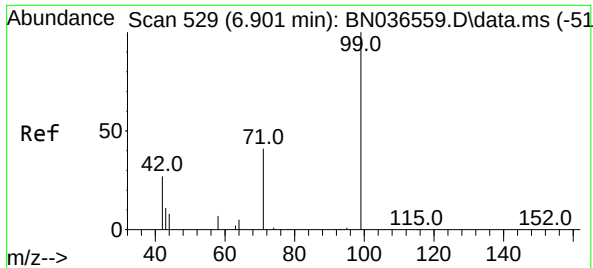


Abundance



Abundance Scan 306 (5.290 min): BN036807.D\data.ms (-28)





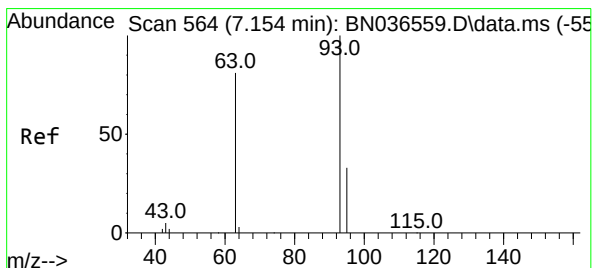
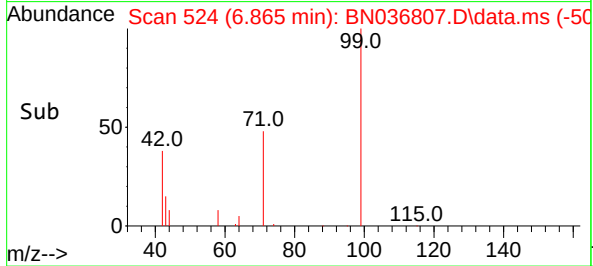
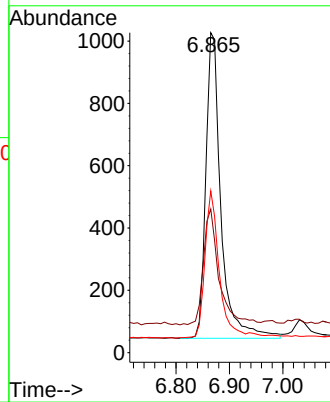
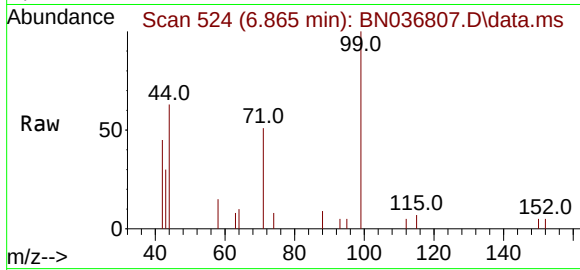
#5
Phenol-d6
Concen: 0.340 ng
RT: 6.865 min Scan# 51
Delta R.T. -0.036 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 193
Ion Ratio Lower Upper
99 100
42 39.4 26.5 39.7
71 46.4 34.1 51.1

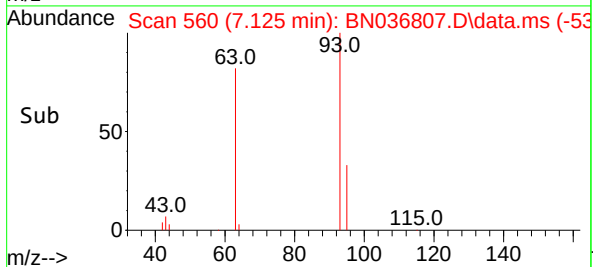
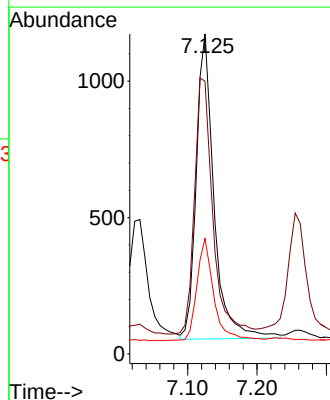
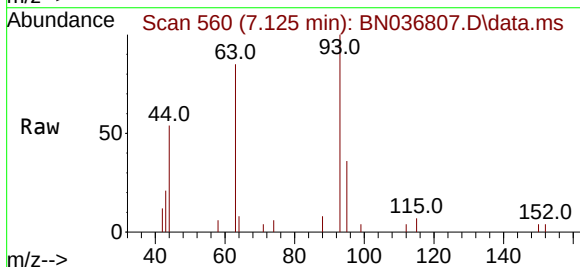
Manual Integrations
APPROVED

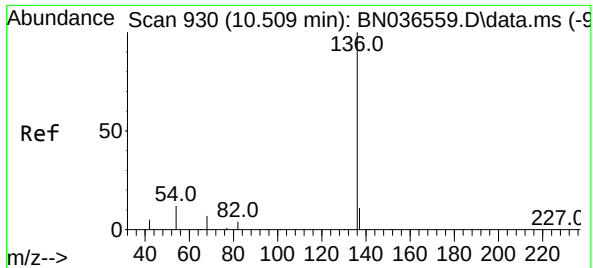
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.338 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

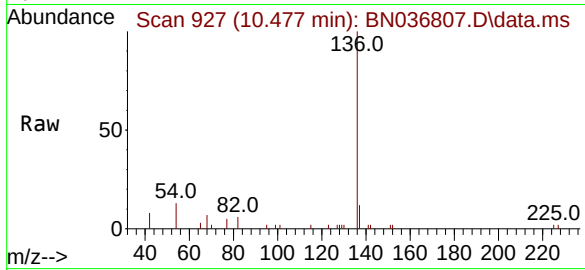
Tgt Ion: 93 Resp: 1990
Ion Ratio Lower Upper
93 100
63 86.3 67.7 101.5
95 31.9 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

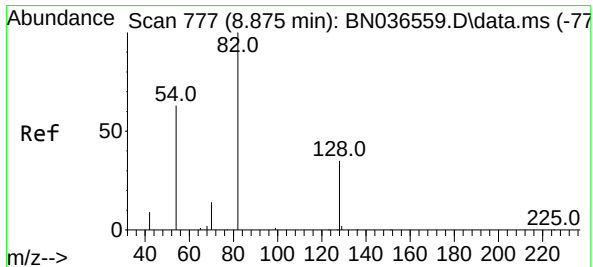
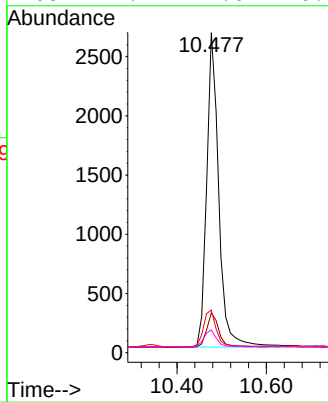
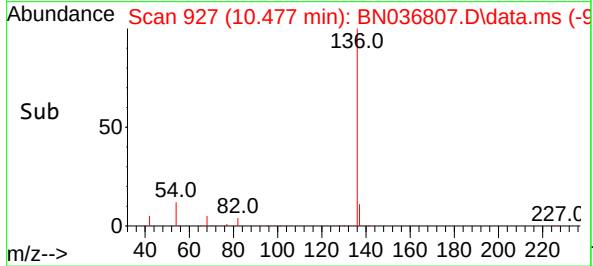
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 136 Resp: 4950
Ion Ratio Lower Upper
136 100
137 12.4 10.3 15.5
54 13.3 11.5 17.3
68 7.1 7.0 10.4

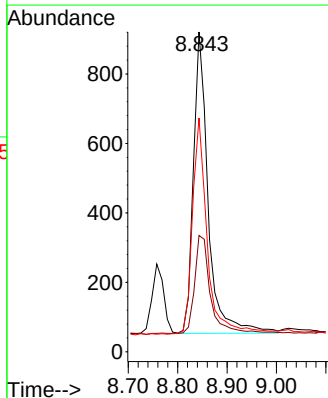
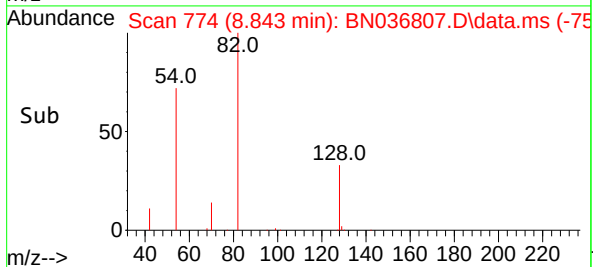
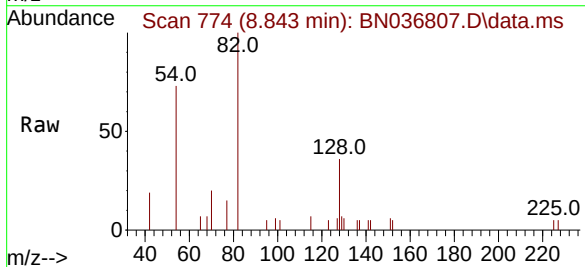
Manual Integrations
APPROVED

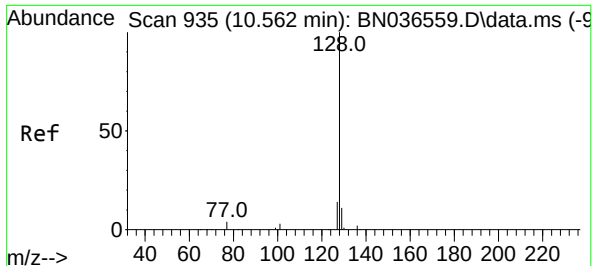
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#8
Nitrobenzene-d5
Concen: 0.334 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 82 Resp: 1802
Ion Ratio Lower Upper
82 100
128 36.4 30.6 45.8
54 73.1 52.2 78.4





#9

Naphthalene

Concen: 0.356 ng

RT: 10.530 min Scan# 91

Delta R.T. -0.032 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

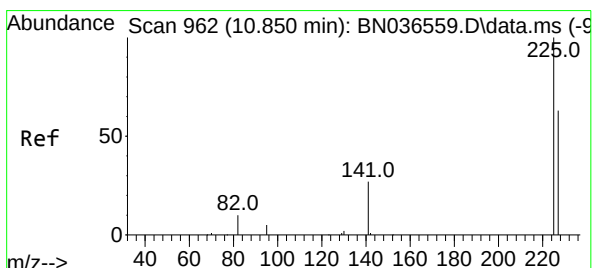
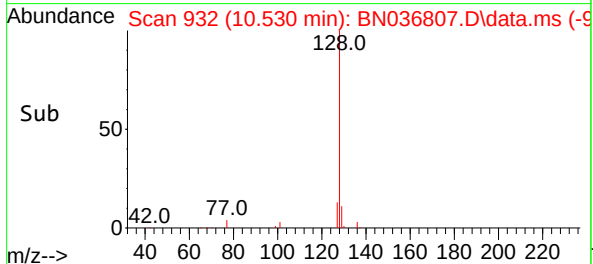
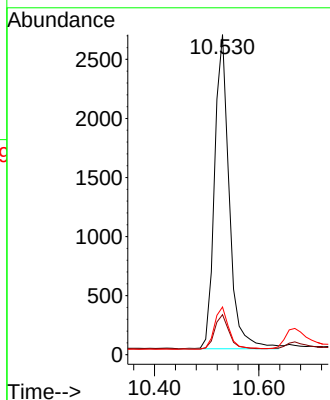
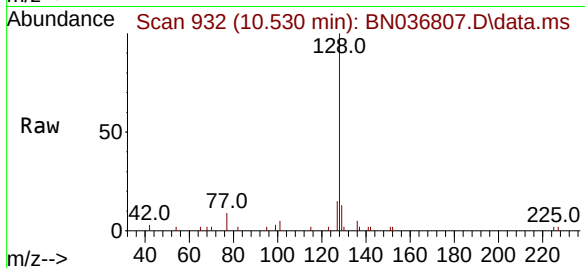
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	128	Resp:	518
Ion Ratio	Lower	Upper	
128	100		
129	12.5	9.8	14.6
127	14.9	11.8	17.8

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

#10

Hexachlorobutadiene

Concen: 0.358 ng

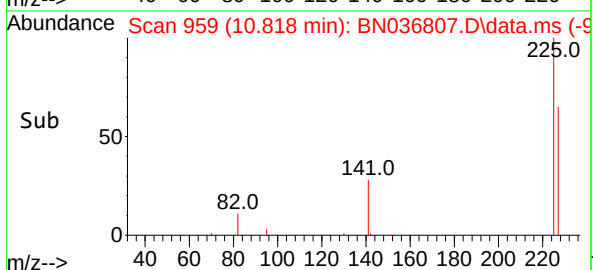
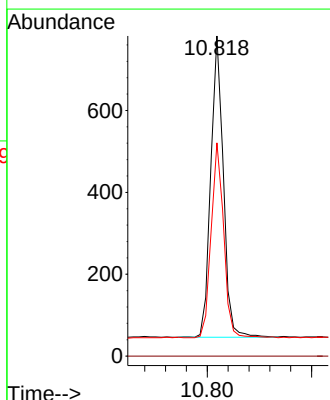
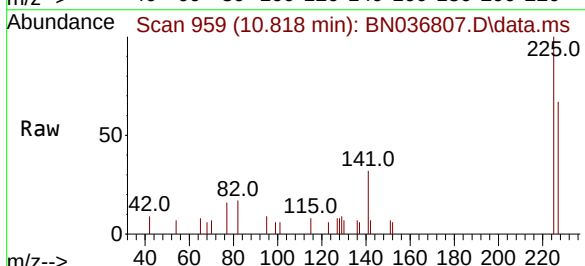
RT: 10.818 min Scan# 959

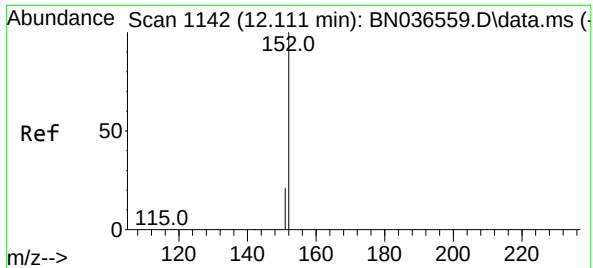
Delta R.T. -0.032 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

Tgt Ion:	225	Resp:	1228
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	64.7	51.8	77.8





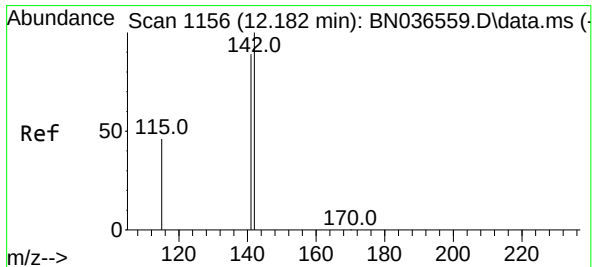
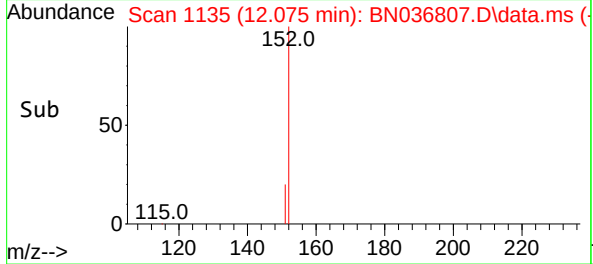
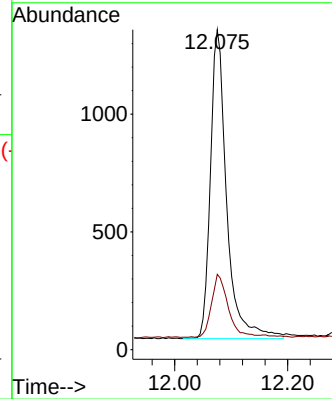
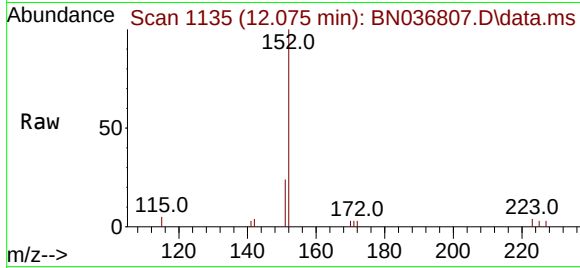
#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.075 min Scan# 1142
Delta R.T. -0.035 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2608
Ion Ratio Lower Upper
152 100
151 20.6 17.0 25.6

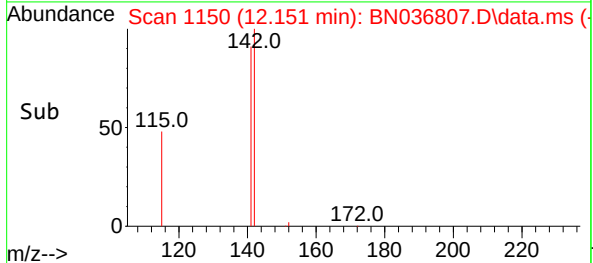
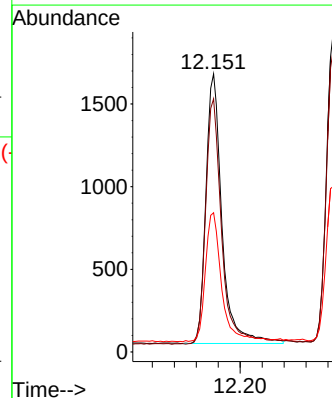
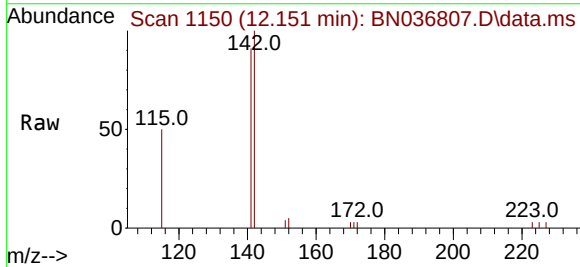
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APPROVED

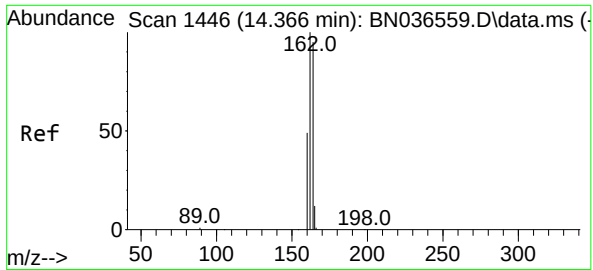
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#12
2-Methylnaphthalene
Concen: 0.357 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

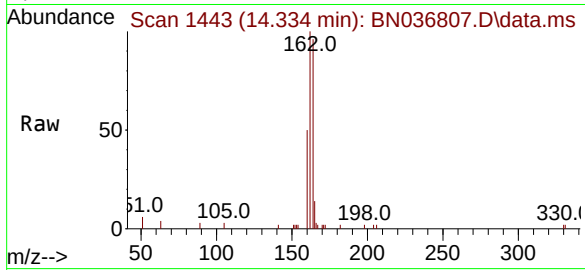
Tgt Ion:142 Resp: 3312
Ion Ratio Lower Upper
142 100
141 91.0 71.7 107.5
115 50.1 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

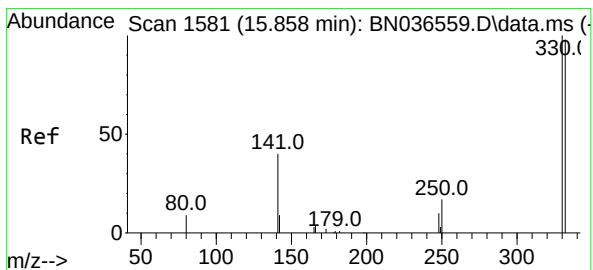
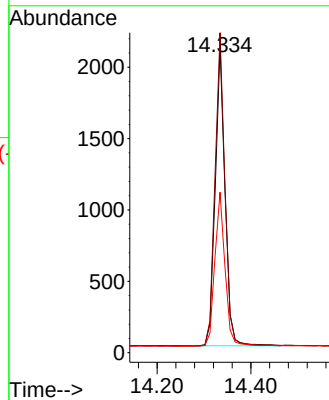
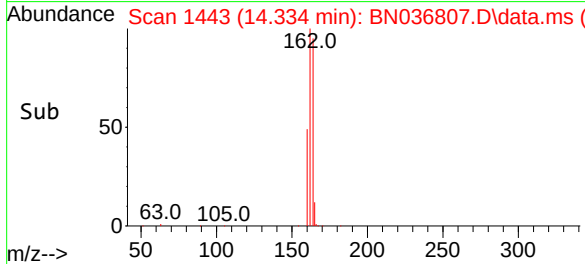
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



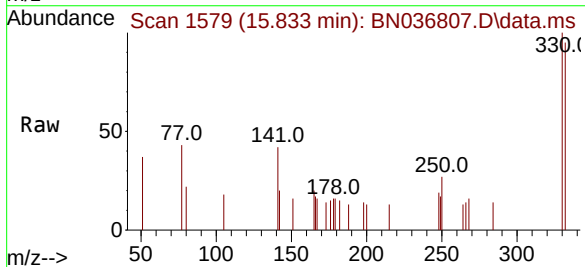
Tgt Ion:164 Resp: 304
Ion Ratio Lower Upper
164 100
162 104.5 84.2 126.2
160 52.4 42.2 63.2

Manual Integrations
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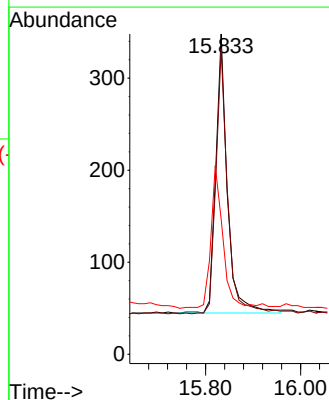
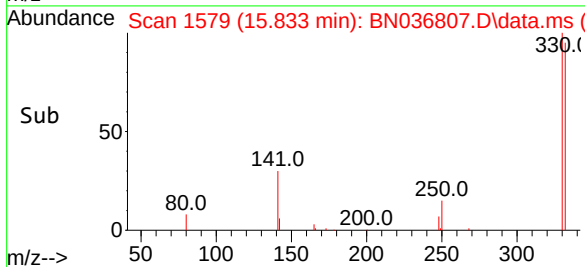
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

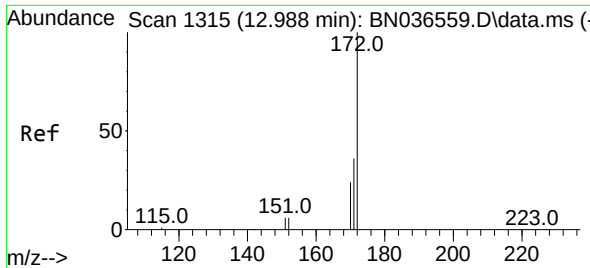


#14
2,4,6-Tribromophenol
Concen: 0.371 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21



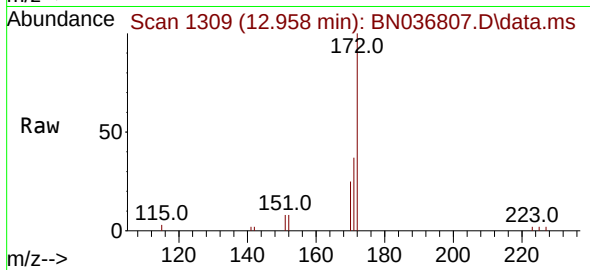
Tgt Ion:330 Resp: 513
Ion Ratio Lower Upper
330 100
332 96.9 75.2 112.8
141 52.4 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.329 ng
RT: 12.958 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

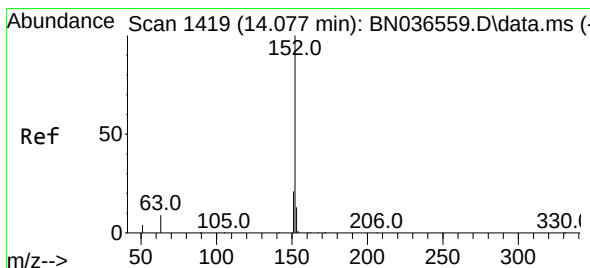
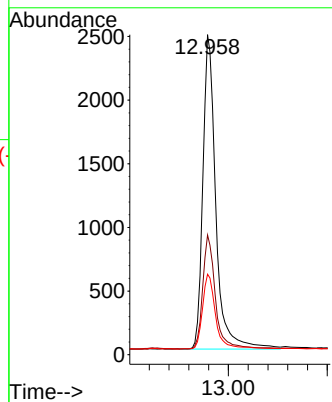
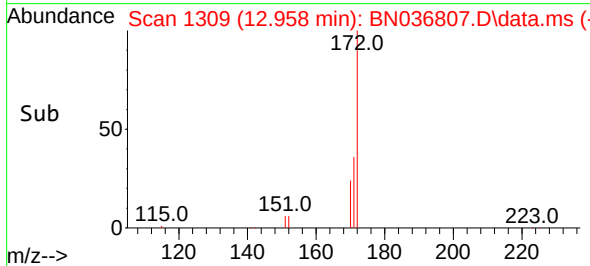
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:172 Resp: 5830
Ion Ratio Lower Upper
172 100
171 37.4 29.5 44.3
170 25.2 20.2 30.4

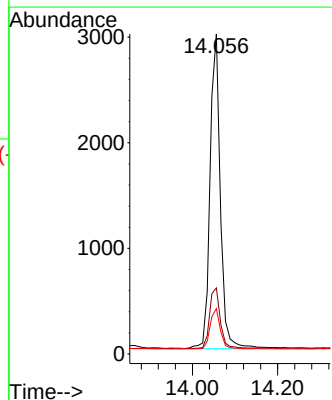
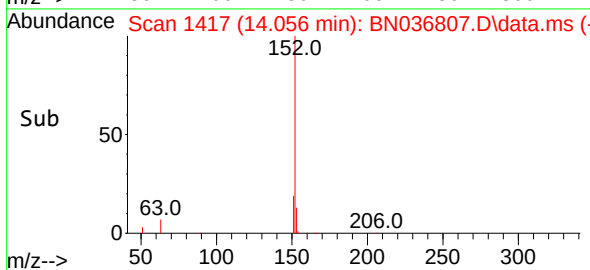
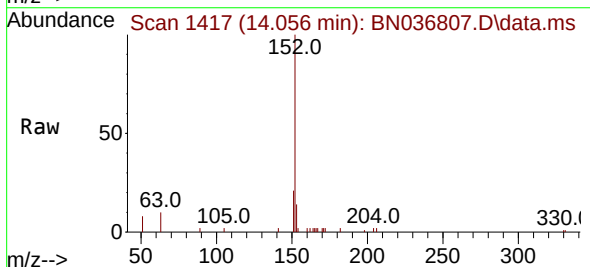
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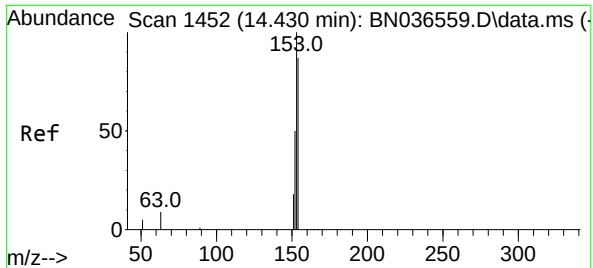
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#16
Acenaphthylene
Concen: 0.348 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

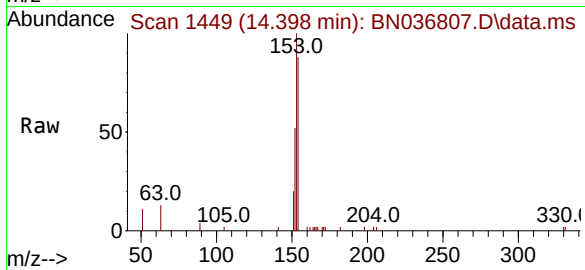
Tgt Ion:152 Resp: 5001
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.4
153 12.6 10.6 15.8





#17
Acenaphthene
Concen: 0.361 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

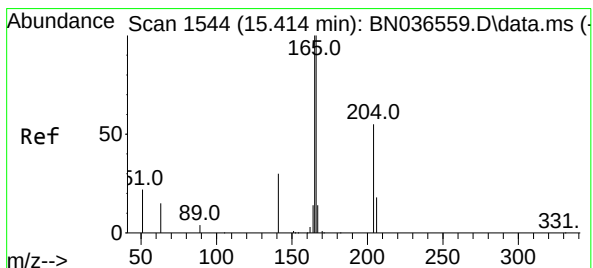
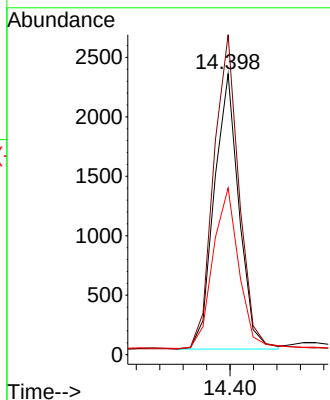
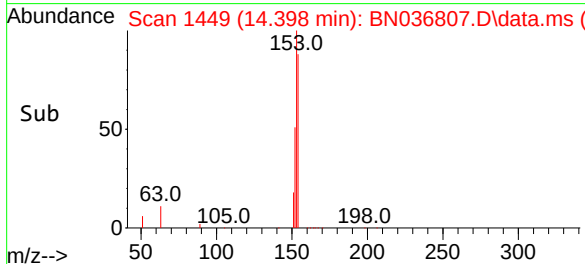
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



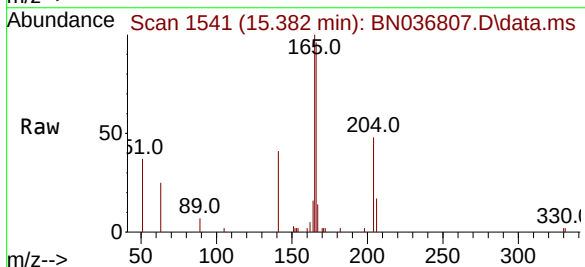
Tgt Ion:154 Resp: 339
Ion Ratio Lower Upper
154 100
153 116.8 94.1 141.1
152 61.6 49.8 74.6

Manual Integrations
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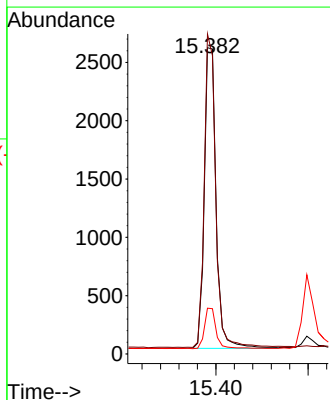
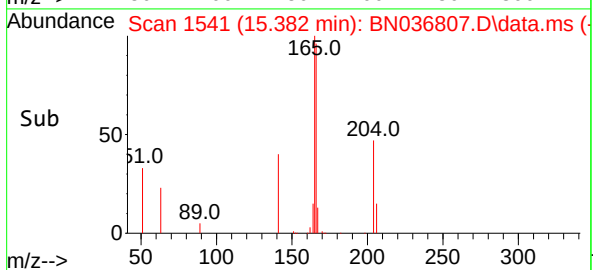
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

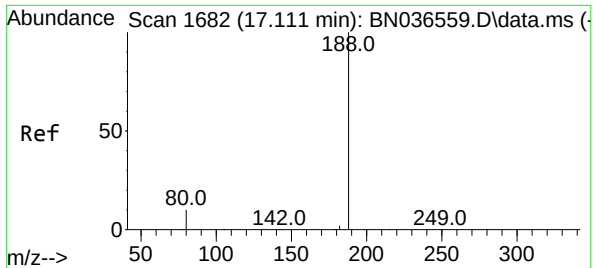


#18
Fluorene
Concen: 0.364 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21



Tgt Ion:166 Resp: 4624
Ion Ratio Lower Upper
166 100
165 99.9 79.8 119.8
167 13.3 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 11

Delta R.T. -0.025 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:188 Resp: 6169

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

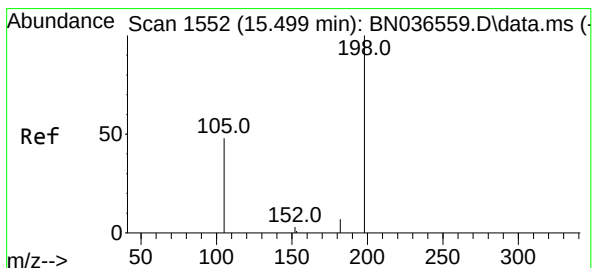
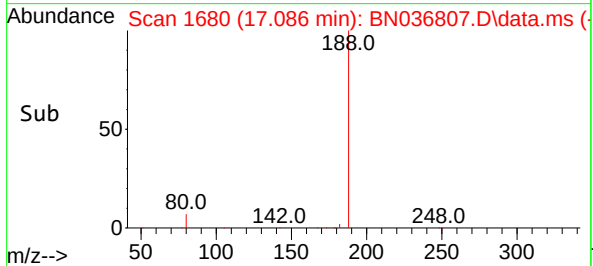
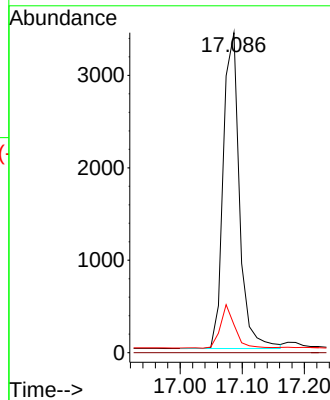
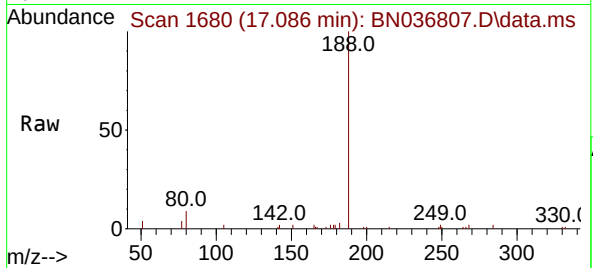
80 8.7 8.8 13.2

Manual Integrations

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Reviewed By :Anahy Claudio 03/31/2025

Supervised By :Jagrut Upadhyay 03/31/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.447 ng

RT: 15.478 min Scan# 1550

Delta R.T. -0.021 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

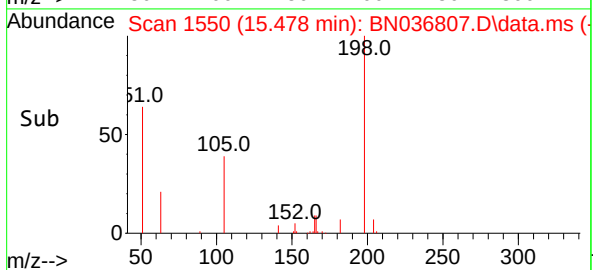
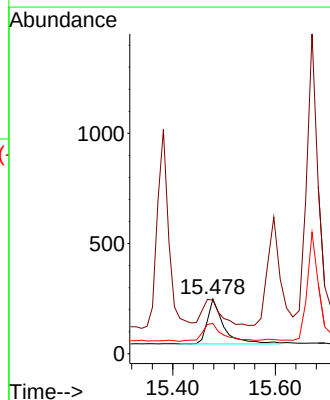
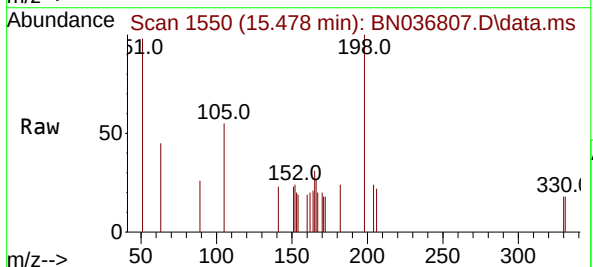
Tgt Ion:198 Resp: 475

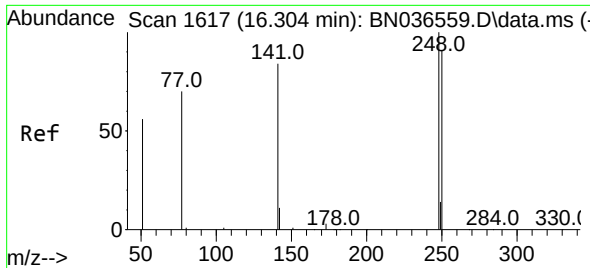
Ion Ratio Lower Upper

198 100

51 98.0 107.9 161.9#

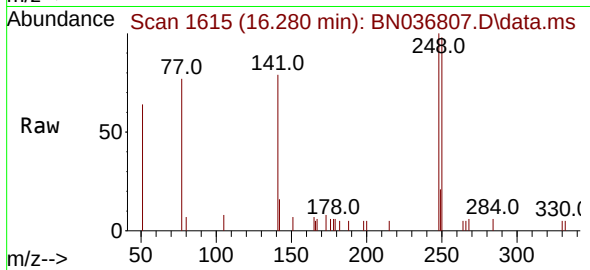
105 55.4 56.2 84.2#





#21
4-Bromophenyl-phenylether
Concen: 0.368 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

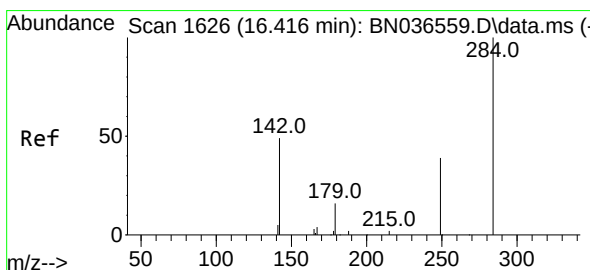
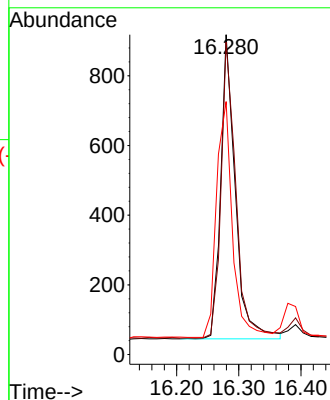
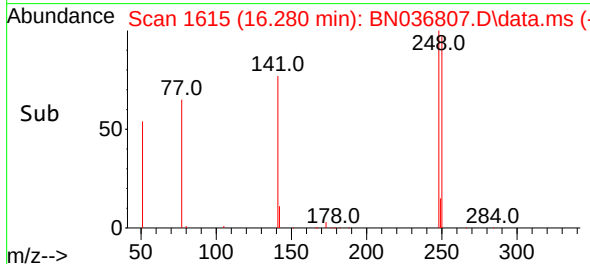
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



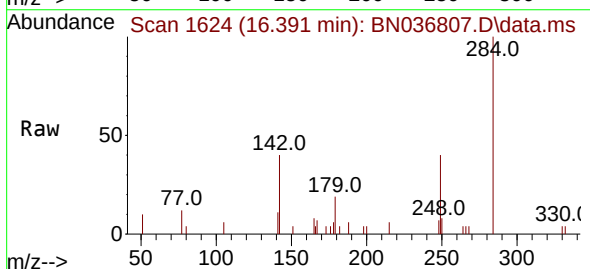
Tgt Ion:248 Resp: 1424
Ion Ratio Lower Upper
248 100
250 97.7 73.0 109.6
141 79.1 68.6 103.0

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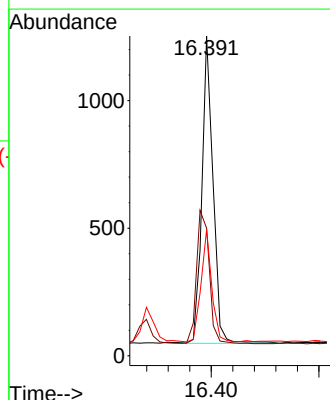
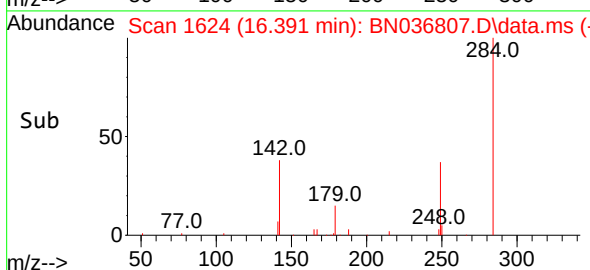
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025

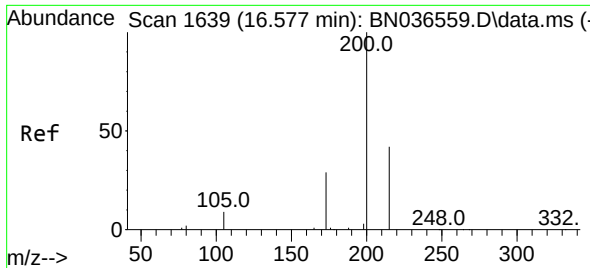


#22
Hexachlorobenzene
Concen: 0.371 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21



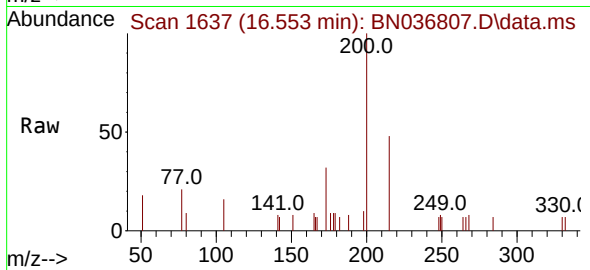
Tgt Ion:284 Resp: 1729
Ion Ratio Lower Upper
284 100
142 49.7 37.0 55.4
249 35.3 28.1 42.1





#23
Atrazine
Concen: 0.377 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

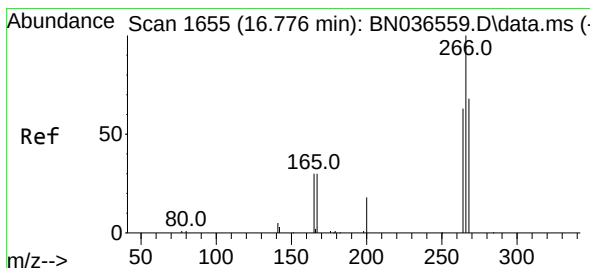
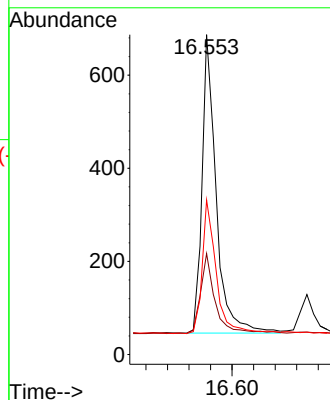
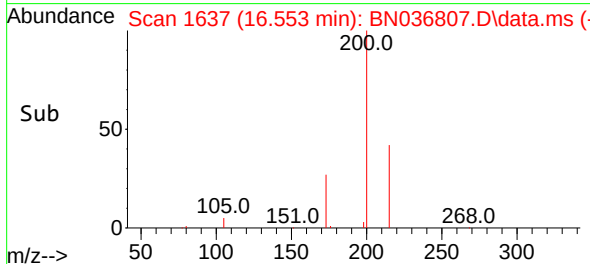
Instrument :
BNA_N
ClientSampleId :
SSTDC00.4EC



Tgt Ion:200 Resp: 1168
Ion Ratio Lower Upper
200 100
173 31.6 27.3 40.9
215 48.3 36.8 55.2

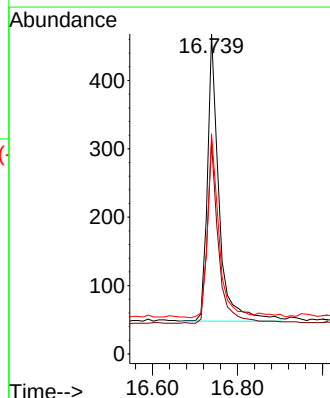
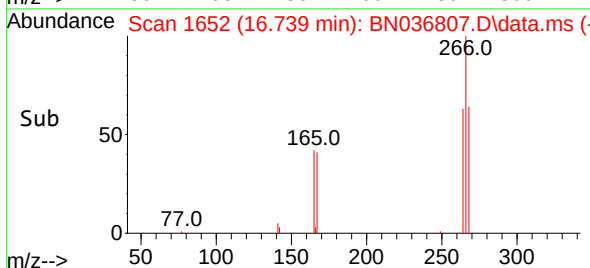
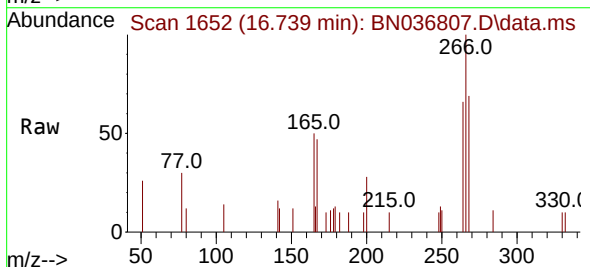
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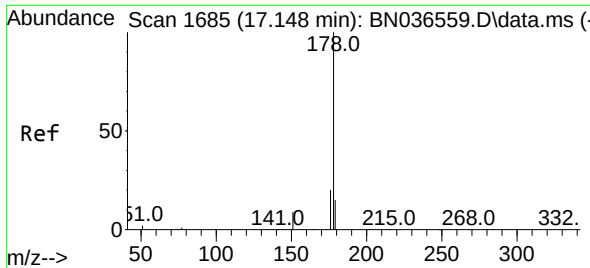
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#24
Pentachlorophenol
Concen: 0.372 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

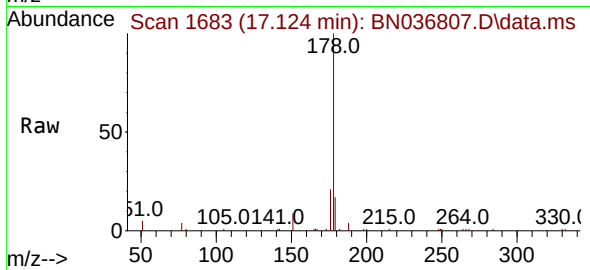
Tgt Ion:266 Resp: 792
Ion Ratio Lower Upper
266 100
264 61.1 49.6 74.4
268 62.4 50.9 76.3





#25
Phenanthrene
Concen: 0.377 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

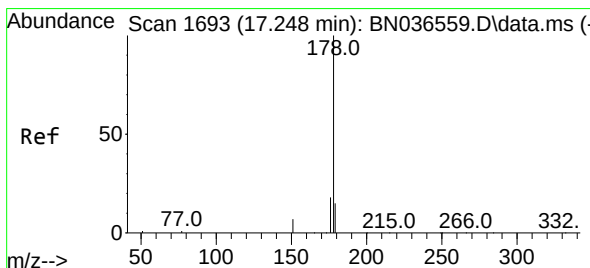
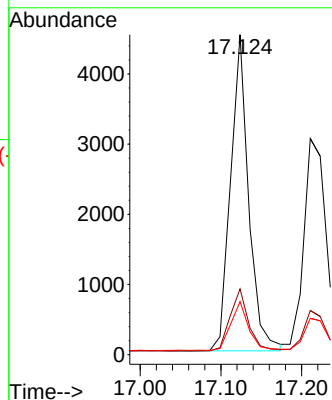
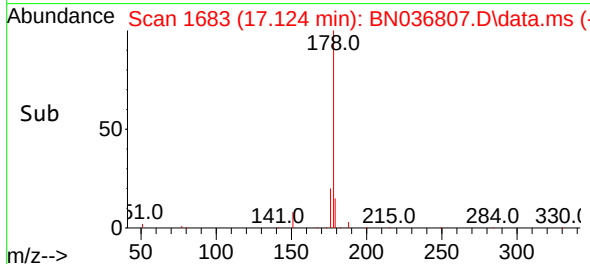
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:178 Resp: 6985
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 15.3 12.2 18.4

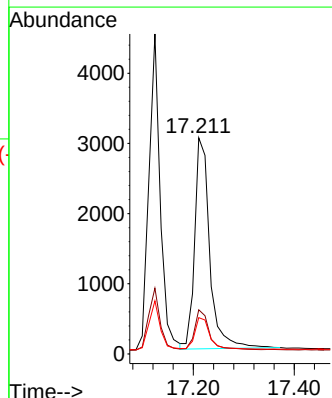
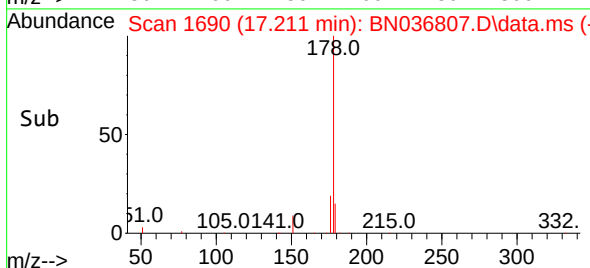
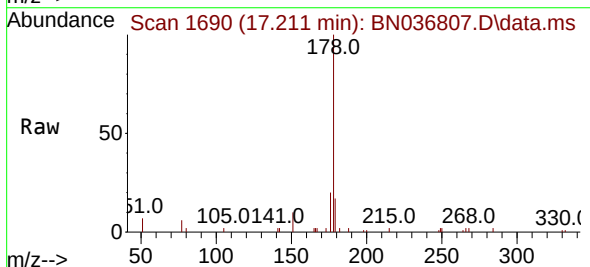
Manual Integrations
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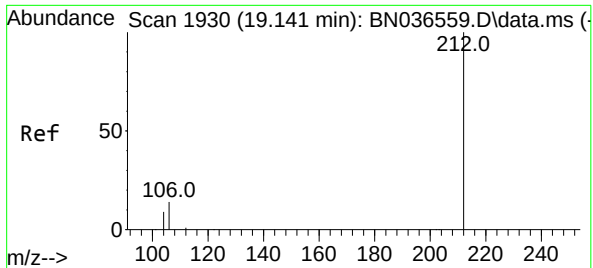
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#26
Anthracene
Concen: 0.374 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

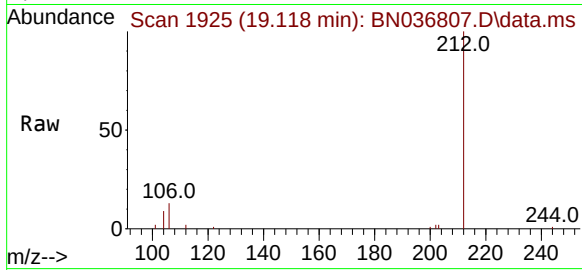
Tgt Ion:178 Resp: 6251
Ion Ratio Lower Upper
178 100
176 18.3 15.4 23.2
179 15.1 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.384 ng
RT: 19.118 min Scan# 1918
Delta R.T. -0.023 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

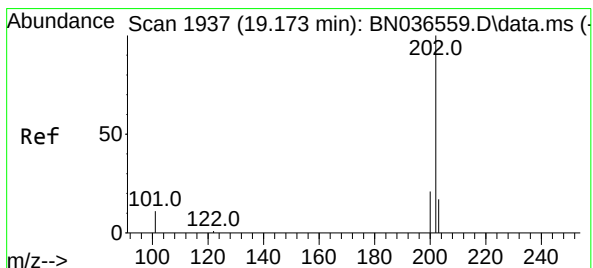
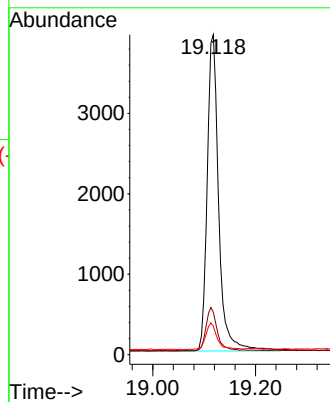
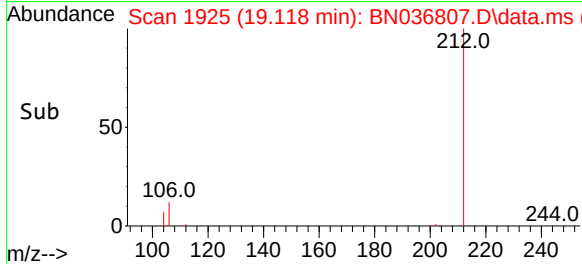
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:212 Resp: 607
Ion Ratio Lower Upper
212 100
106 13.2 11.8 17.6
104 8.4 7.3 10.9

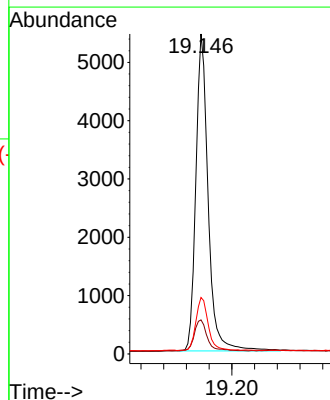
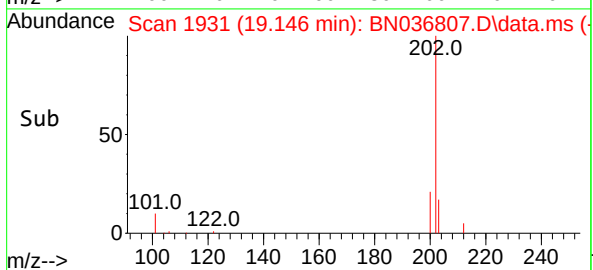
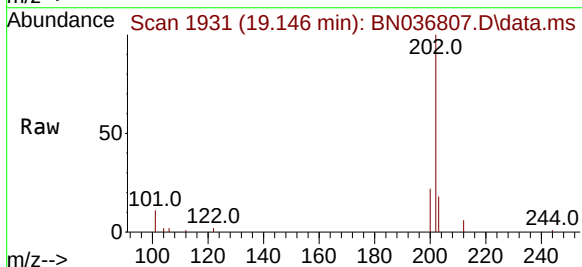
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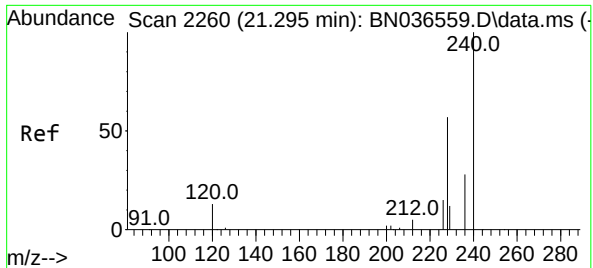
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#28
Fluoranthene
Concen: 0.392 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

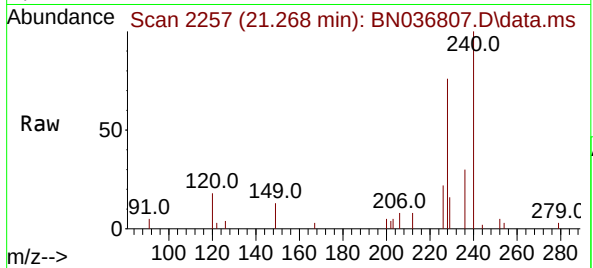
Tgt Ion:202 Resp: 8157
Ion Ratio Lower Upper
202 100
101 10.2 9.4 14.0
203 16.8 13.5 20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2126
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

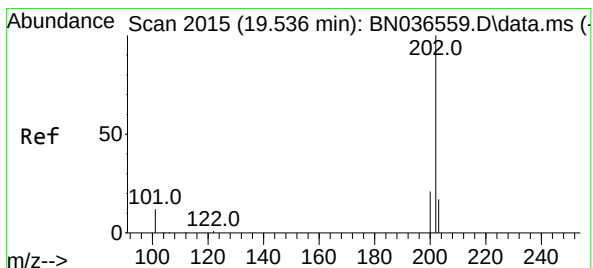
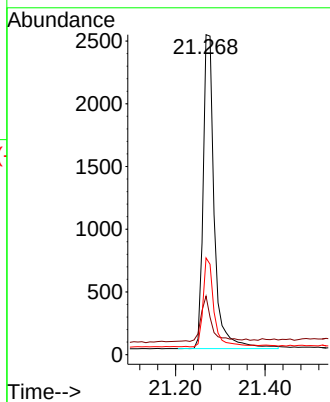
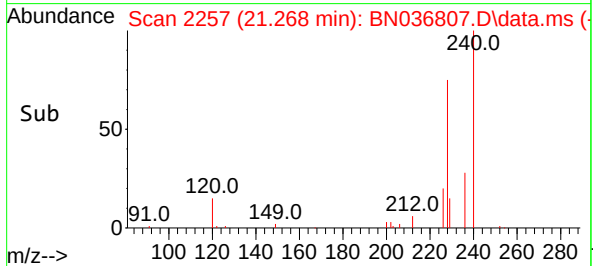
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:240 Resp: 4360
Ion Ratio Lower Upper
240 100
120 18.3 14.6 22.0
236 30.3 24.1 36.1

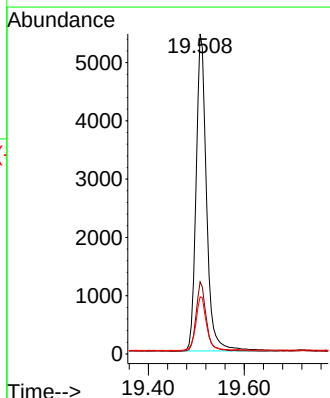
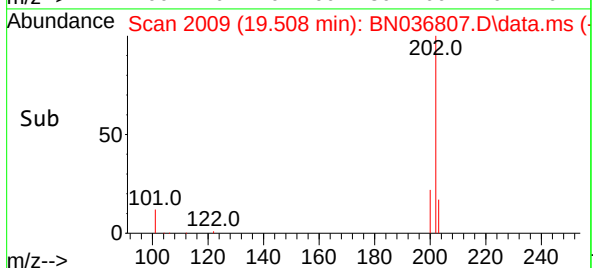
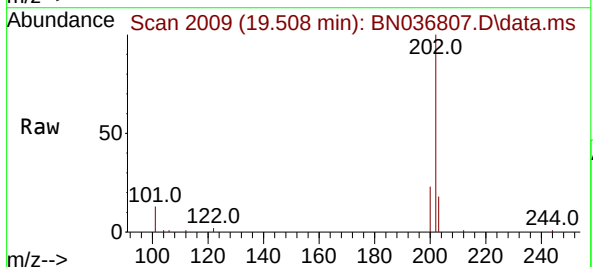
Manual Integrations
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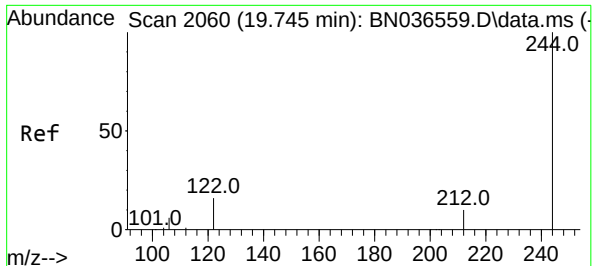
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#30
Pyrene
Concen: 0.387 ng
RT: 19.508 min Scan# 2009
Delta R.T. -0.028 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:202 Resp: 8270
Ion Ratio Lower Upper
202 100
200 21.2 17.1 25.7
203 17.4 14.1 21.1





#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Instrument :

BNA_N

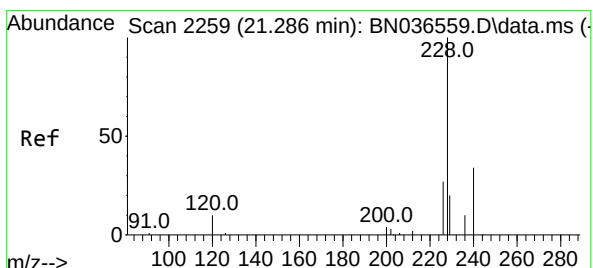
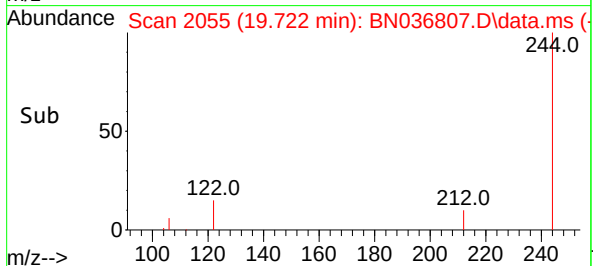
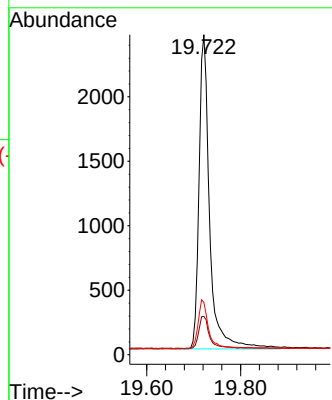
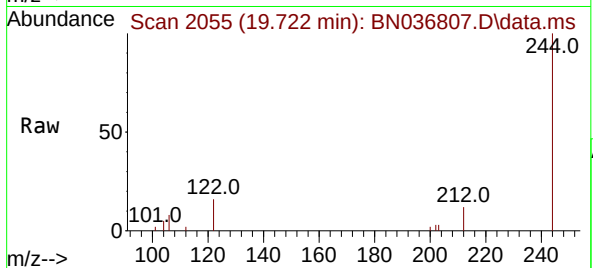
ClientSampleId :

SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	16.4	13.9	20.9

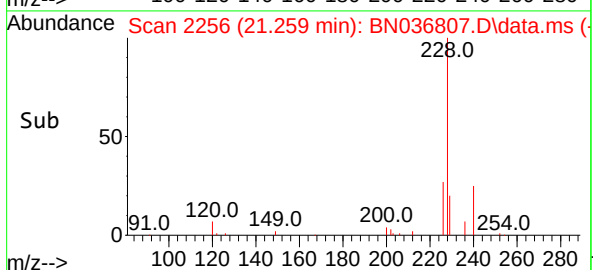
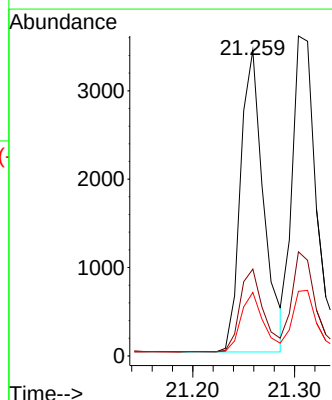
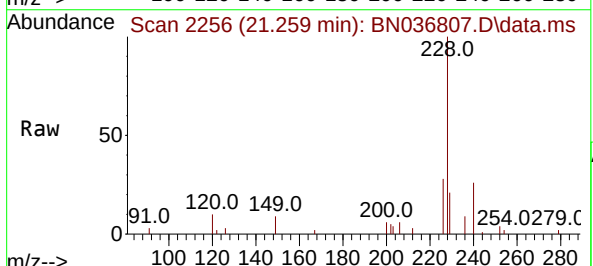
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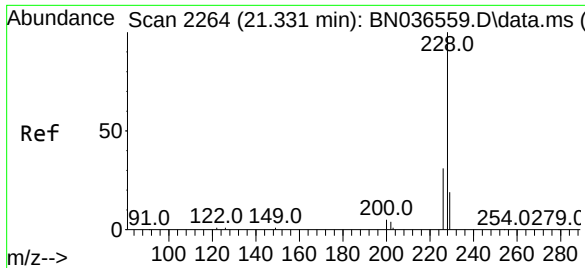
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

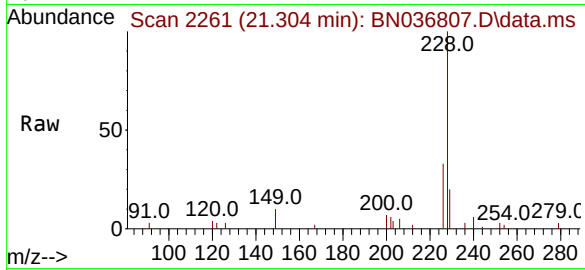
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.8	16.6	25.0





#33
Chrysene
Concen: 0.378 ng
RT: 21.304 min Scan# 21
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

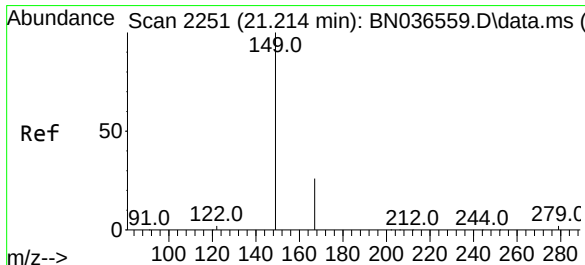
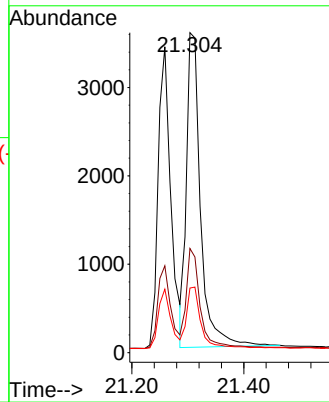
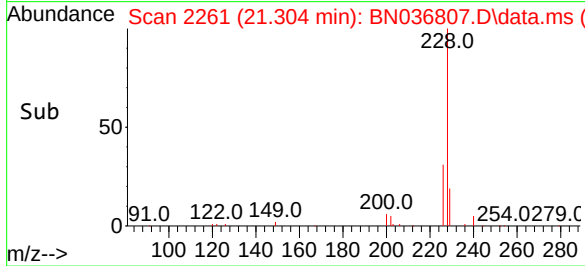
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 228 Resp: 626
Ion Ratio Lower Upper
228 100
226 32.6 25.3 37.9
229 20.2 15.8 23.8

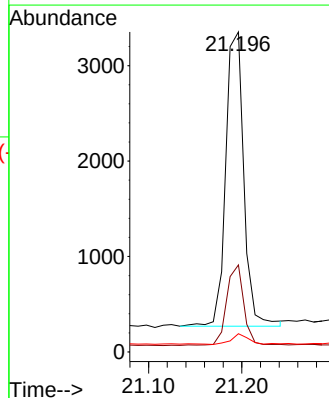
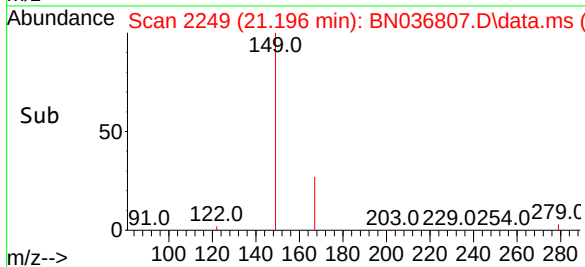
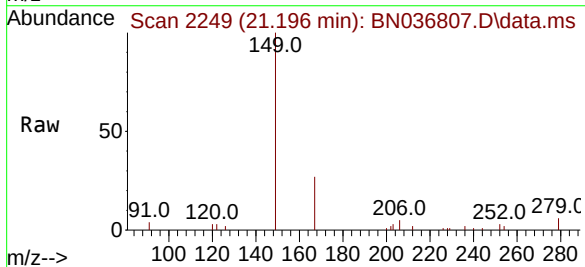
Manual Integrations
APPROVED

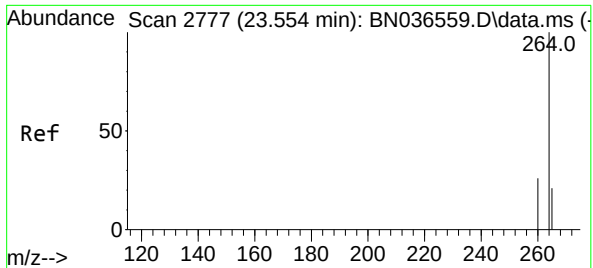
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.385 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

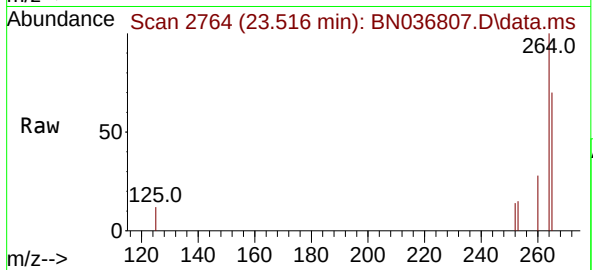
Tgt Ion: 149 Resp: 4162
Ion Ratio Lower Upper
149 100
167 26.1 20.7 31.1
279 3.6 3.6 5.4#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 21
Delta R.T. -0.038 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

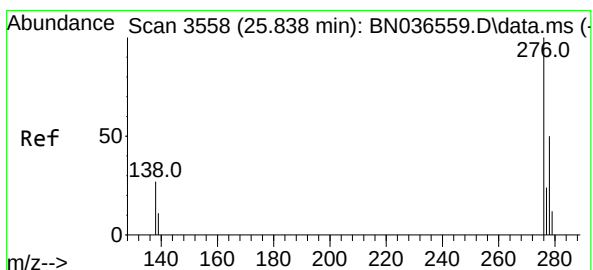
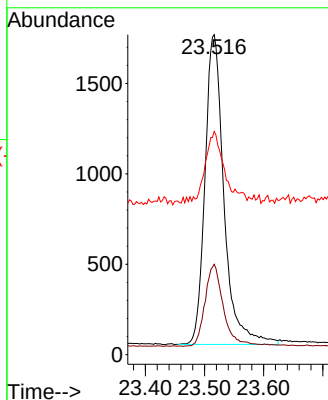
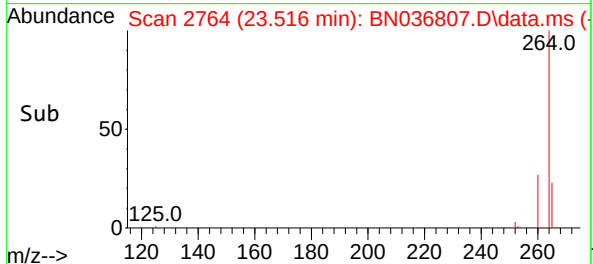
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:264 Resp: 3818
Ion Ratio Lower Upper
264 100
260 28.2 22.6 33.8
265 69.8 88.1 132.1

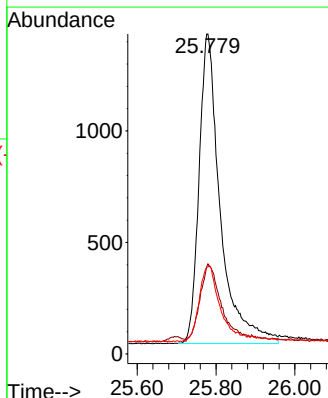
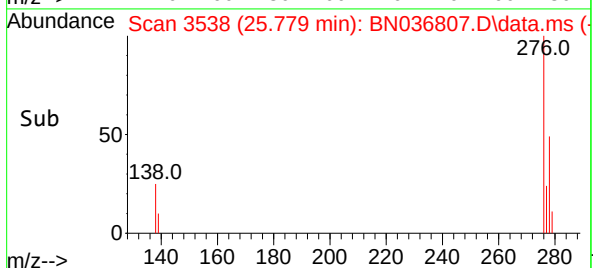
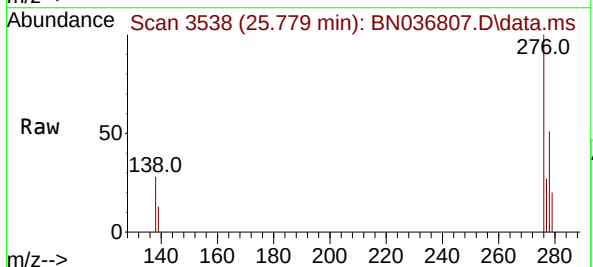
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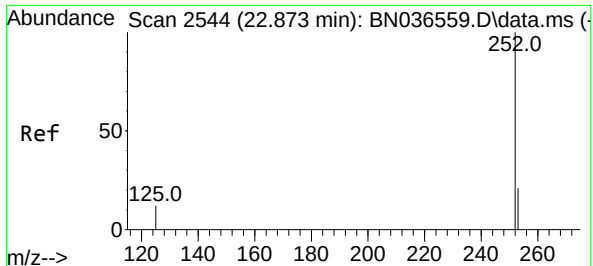
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:276 Resp: 5188
Ion Ratio Lower Upper
276 100
138 24.1 23.4 35.2
277 23.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.374 ng

RT: 22.841 min Scan# 21

Delta R.T. -0.032 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

Instrument :

BNA_N

ClientSampleId :

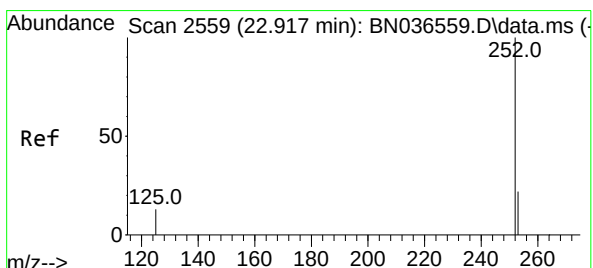
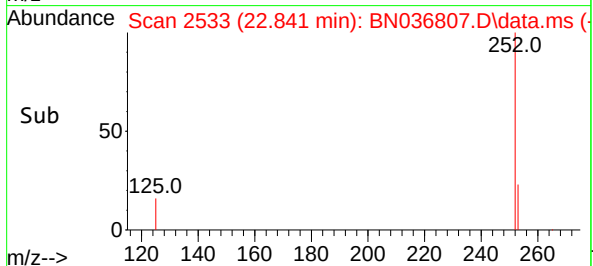
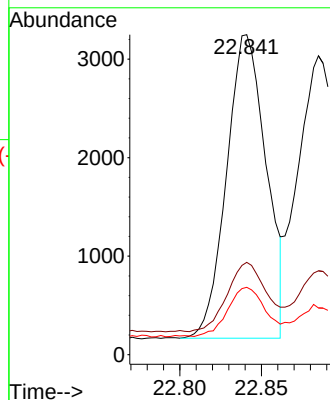
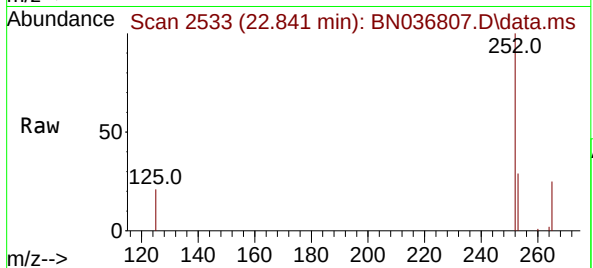
SSTDCCC0.4EC

Tgt Ion:252	Resp:	519
Ion Ratio	Lower	Upper
252	100	
253	28.9	23.9 35.9
125	21.1	17.4 26.2

Manual Integrations

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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#38

Benzo(k)fluoranthene

Concen: 0.400 ng m

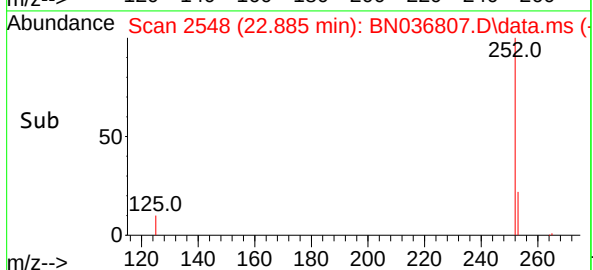
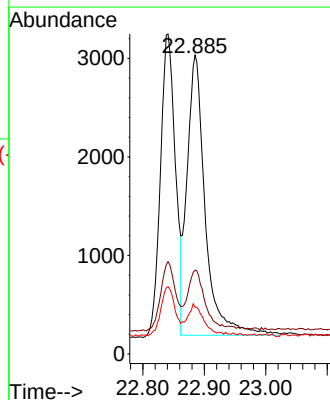
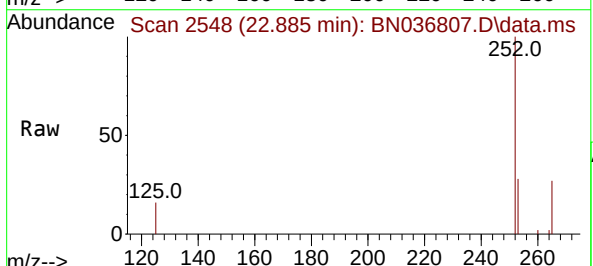
RT: 22.885 min Scan# 2548

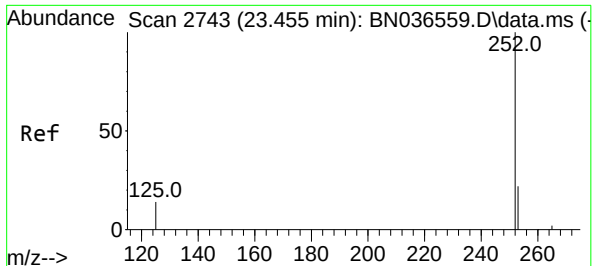
Delta R.T. -0.032 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

Tgt Ion:252	Resp:	5835
Ion Ratio	Lower	Upper
252	100	
253	28.1	24.6 36.8
125	15.7	17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 23.417 min Scan# 21

Delta R.T. -0.038 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

Instrument :

BNA_N

ClientSampleId :

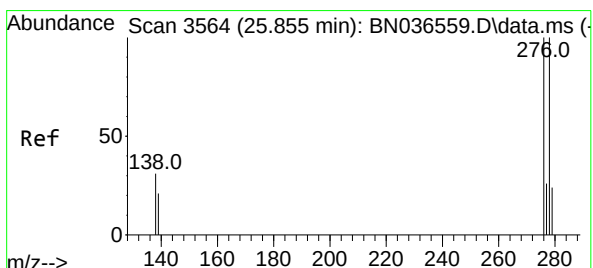
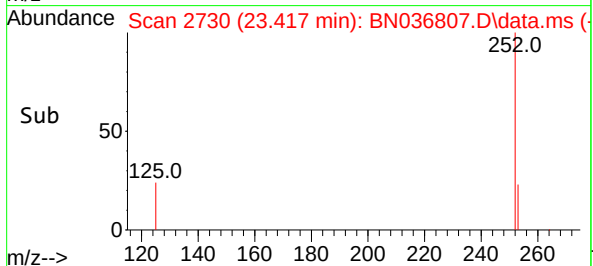
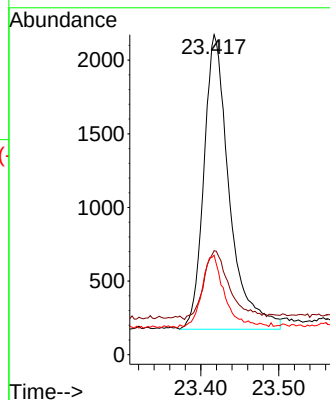
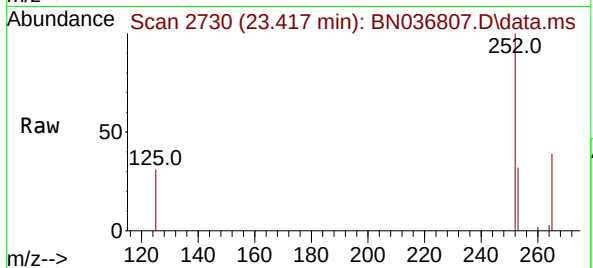
SSTDCCC0.4EC

Tgt Ion:	252	Resp:	454
Ion Ratio	Lower	Upper	
252	100		
253	32.5	27.8	41.8
125	31.1	22.7	34.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.383 ng m

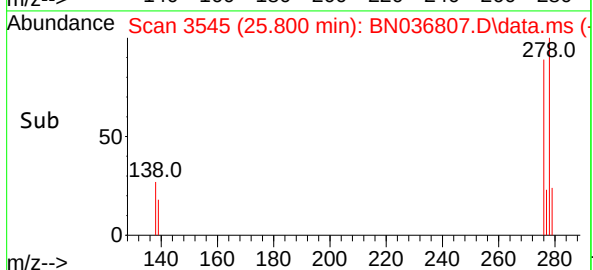
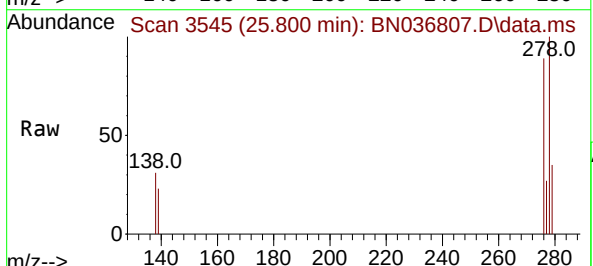
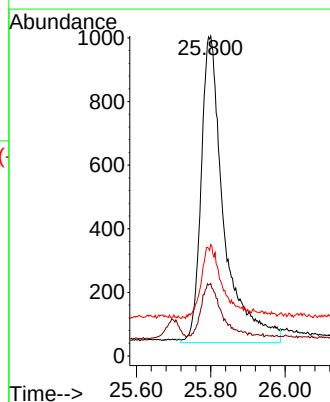
RT: 25.800 min Scan# 3545

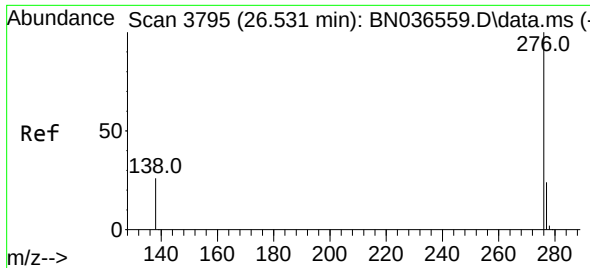
Delta R.T. -0.055 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

Tgt Ion:	278	Resp:	4113
Ion Ratio	Lower	Upper	
278	100		
139	22.7	20.8	31.2
279	34.8	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.371 ng

RT: 26.472 min Scan# 31

Delta R.T. -0.058 min

Lab File: BN036807.D

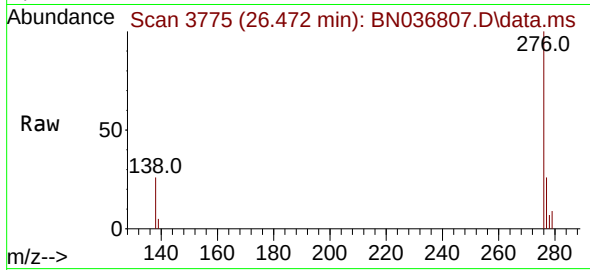
Acq: 29 Mar 2025 12:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion: 276 Resp: 4558

Ion Ratio Lower Upper

276 100

277 26.4 22.2 33.4

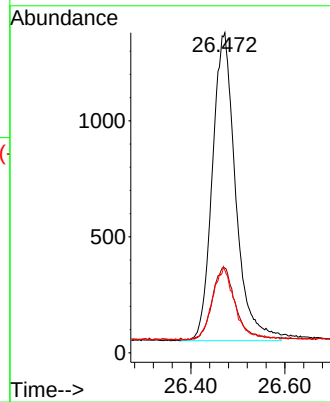
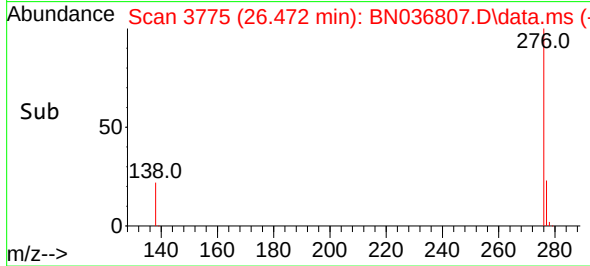
138 25.8 24.1 36.1

Manual Integrations

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Reviewed By :Anahy Claudio 03/31/2025

Supervised By :Jagrut Upadhyay 03/31/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036807.D
Acq On : 29 Mar 2025 12:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 31 02:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	90	-0.03
2	1,4-Dioxane	0.444	0.456	-2.7	82	-0.01
3	n-Nitrosodimethylamine	0.898	0.931	-3.7	89	-0.01
4 S	2-Fluorophenol	0.932	0.835	10.4	76	-0.02
5 S	Phenol-d6	1.152	0.978	15.1	78	-0.04
6	bis(2-Chloroethyl)ether	1.190	1.007	15.4	76	-0.03
7 I	Naphthalene-d8	1.000	1.000	0.0	97	-0.03
8 S	Nitrobenzene-d5	0.435	0.364	16.3	85	-0.03
9	Naphthalene	1.177	1.046	11.1	84	-0.03
10	Hexachlorobutadiene	0.277	0.248	10.5	82	-0.03
11 SURR	2-Methylnaphthalene-d10	0.595	0.526	11.6	85	-0.04
12	2-Methylnaphthalene	0.749	0.668	10.8	85	-0.03
13 I	Acenaphthene-d10	1.000	1.000	0.0	101	-0.03
14 S	2,4,6-Tribromophenol	0.182	0.169	7.1	90	-0.02
15 S	2-Fluorobiphenyl	2.327	1.915	17.7	80	-0.03
16	Acenaphthylene	1.888	1.643	13.0	85	-0.02
17	Acenaphthene	1.236	1.115	9.8	88	-0.03
18	Fluorene	1.672	1.519	9.2	87	-0.03
19 I	Phenanthrene-d10	1.000	1.000	0.0	103	-0.02
20	4,6-Dinitro-2-methylphenol	0.086	0.077	10.5	103	-0.02
21	4-Bromophenyl-phenylether	0.251	0.231	8.0	87	-0.02
22	Hexachlorobenzene	0.303	0.280	7.6	86	-0.02
23	Atrazine	0.201	0.189	6.0	91	-0.02
24	Pentachlorophenol	0.138	0.128	7.2	96	-0.04
25	Phenanthrene	1.200	1.132	5.7	90	-0.02
26	Anthracene	1.083	1.013	6.5	91	-0.04
27 SURR	Fluoranthene-d10	1.025	0.985	3.9	91	-0.02
28	Fluoranthene	1.348	1.322	1.9	94	-0.03
29 I	Chrysene-d12	1.000	1.000	0.0	106	-0.03
30	Pyrene	1.956	1.894	3.2	94	-0.03
31 S	Terphenyl-d14	0.958	0.875	8.7	90	-0.02
32	Benzo(a)anthracene	1.391	1.232	11.4	91	-0.03
33	Chrysene	1.520	1.434	5.7	95	-0.03
34	Bis(2-ethylhexyl)phthalate	0.990	0.953	3.7	97	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	108	-0.04
36	Indeno(1,2,3-cd)pyrene	1.444	1.359	5.9	95	-0.06
37	Benzo(b)fluoranthene	1.456	1.360	6.6	95	-0.03
38	Benzo(k)fluoranthene	1.527	1.528	-0.1	102	-0.03
39 C	Benzo(a)pyrene	1.226	1.191	2.9	99	-0.04
40	Dibenzo(a,h)anthracene	1.124	1.077	4.2	100	-0.06
41	Benzo(g,h,i)perylene	1.286	1.194	7.2	93	-0.06

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036807.D
Acq On : 29 Mar 2025 12:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 31 02:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	90	-0.03
2	1,4-Dioxane	0.400	0.411	-2.7	82	-0.01
3	n-Nitrosodimethylamine	0.400	0.415	-3.7	89	-0.01
4 S	2-Fluorophenol	0.400	0.358	10.5	76	-0.02
5 S	Phenol-d6	0.400	0.340	15.0	78	-0.04
6	bis(2-Chloroethyl)ether	0.400	0.338	15.5	76	-0.03
7 I	Naphthalene-d8	0.400	0.400	0.0	97	-0.03
8 S	Nitrobenzene-d5	0.400	0.334	16.5	85	-0.03
9	Naphthalene	0.400	0.356	11.0	84	-0.03
10	Hexachlorobutadiene	0.400	0.358	10.5	82	-0.03
11 SURR	2-Methylnaphthalene-d10	0.400	0.354	11.5	85	-0.04
12	2-Methylnaphthalene	0.400	0.357	10.8	85	-0.03
13 I	Acenaphthene-d10	0.400	0.400	0.0	101	-0.03
14 S	2,4,6-Tribromophenol	0.400	0.371	7.3	90	-0.02
15 S	2-Fluorobiphenyl	0.400	0.329	17.8	80	-0.03
16	Acenaphthylene	0.400	0.348	13.0	85	-0.02
17	Acenaphthene	0.400	0.361	9.8	88	-0.03
18	Fluorene	0.400	0.364	9.0	87	-0.03
19 I	Phenanthrene-d10	0.400	0.400	0.0	103	-0.02
20	4,6-Dinitro-2-methylphenol	0.400	0.447	-11.7	103	-0.02
21	4-Bromophenyl-phenylether	0.400	0.368	8.0	87	-0.02
22	Hexachlorobenzene	0.400	0.371	7.3	86	-0.02
23	Atrazine	0.400	0.377	5.8	91	-0.02
24	Pentachlorophenol	0.400	0.372	7.0	96	-0.04
25	Phenanthrene	0.400	0.377	5.8	90	-0.02
26	Anthracene	0.400	0.374	6.5	91	-0.04
27 SURR	Fluoranthene-d10	0.400	0.384	4.0	91	-0.02
28	Fluoranthene	0.400	0.392	2.0	94	-0.03
29 I	Chrysene-d12	0.400	0.400	0.0	106	-0.03
30	Pyrene	0.400	0.387	3.3	94	-0.03
31 S	Terphenyl-d14	0.400	0.365	8.8	90	-0.02
32	Benzo(a)anthracene	0.400	0.354	11.5	91	-0.03
33	Chrysene	0.400	0.378	5.5	95	-0.03
34	Bis(2-ethylhexyl)phthalate	0.400	0.385	3.8	97	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	108	-0.04
36	Indeno(1,2,3-cd)pyrene	0.400	0.376	6.0	95	-0.06
37	Benzo(b)fluoranthene	0.400	0.374	6.5	95	-0.03
38	Benzo(k)fluoranthene	0.400	0.400	0.0	102	-0.03
39 C	Benzo(a)pyrene	0.400	0.389	2.8	99	-0.04
40	Dibenzo(a,h)anthracene	0.400	0.383	4.3	100	-0.06
41	Benzo(g,h,i)perylene	0.400	0.371	7.3	93	-0.06

(#) = 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.: Q1620 SAS No.: Q1620 SDG No.: Q1620

Instrument ID: BNA_N Calibration Date/Time: 03/31/2025 10:39

Lab File ID: BN036809.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.537		-9.7	20.0
Fluoranthene-d10	1.025	0.990		-3.4	20.0
2-Fluorophenol	0.932	0.818		-12.2	20.0
Phenol-d6	1.152	0.953		-17.3	20.0
Nitrobenzene-d5	0.435	0.363		-16.6	20.0
2-Fluorobiphenyl	2.327	1.979		-15.0	20.0
2,4,6-Tribromophenol	0.182	0.161		-11.5	20.0
Terphenyl-d14	0.958	0.798		-16.7	20.0
1,4-Dioxane	0.444	0.454		2.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
 Data File : BN036809.D
 Acq On : 31 Mar 2025 10:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations**APPROVED**

Reviewed By :Rahul Chavli 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025

Quant Time: Mar 31 12:10:51 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Mar 10 16:06:28 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1888	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	4656	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	2798	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	5809	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	4586	0.400	ng	#-0.02
35) Perylene-d12	23.522	264	3945	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.283	112	1544	0.351	ng	-0.03
5) Phenol-d6	6.865	99	1799	0.331	ng	-0.04
8) Nitrobenzene-d5	8.843	82	1689	0.333	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2501	0.361	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	451	0.355	ng	-0.02
15) 2-Fluorobiphenyl	12.958	172	5537	0.340	ng	-0.03
27) Fluoranthene-d10	19.118	212	5750	0.386	ng	-0.02
31) Terphenyl-d14	19.722	244	3660	0.333	ng	-0.02
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.225	88	857	0.409	ng	96
3) n-Nitrosodimethylamine	3.535	42	1677	0.396	ng	93
6) bis(2-Chloroethyl)ether	7.125	93	1889	0.336	ng	98
9) Naphthalene	10.530	128	4851	0.354	ng	99
10) Hexachlorobutadiene	10.818	225	1142	0.354	ng	# 98
12) 2-Methylnaphthalene	12.151	142	3144	0.361	ng	99
16) Acenaphthylene	14.056	152	4617	0.350	ng	99
17) Acenaphthene	14.398	154	3162	0.366	ng	99
18) Fluorene	15.382	166	4232	0.362	ng	99
20) 4,6-Dinitro-2-methylph...	15.478	198	405	0.419	ng	86
21) 4-Bromophenyl-phenylether	16.280	248	1292	0.355	ng	93
22) Hexachlorobenzene	16.391	284	1587	0.361	ng	97
23) Atrazine	16.553	200	1096	0.376	ng	98
24) Pentachlorophenol	16.739	266	743	0.371	ng	98
25) Phenanthrene	17.124	178	6581	0.378	ng	100
26) Anthracene	17.211	178	5583	0.355	ng	100
28) Fluoranthene	19.150	202	7591	0.388	ng	99
30) Pyrene	19.513	202	7799	0.348	ng	100
32) Benzo(a)anthracene	21.259	228	5377	0.337	ng	98
33) Chrysene	21.313	228	6640	0.381	ng	98
34) Bis(2-ethylhexyl)phtha...	21.196	149	4143	0.365	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.782	276	5019	0.352	ng	94
37) Benzo(b)fluoranthene	22.844	252	5495	0.383	ng	98
38) Benzo(k)fluoranthene	22.888	252	5737m	0.381	ng	
39) Benzo(a)pyrene	23.423	252	4679	0.387	ng	96
40) Dibenzo(a,h)anthracene	25.805	278	3655	0.330	ng	99
41) Benzo(g,h,i)perylene	26.472	276	4543	0.358	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025

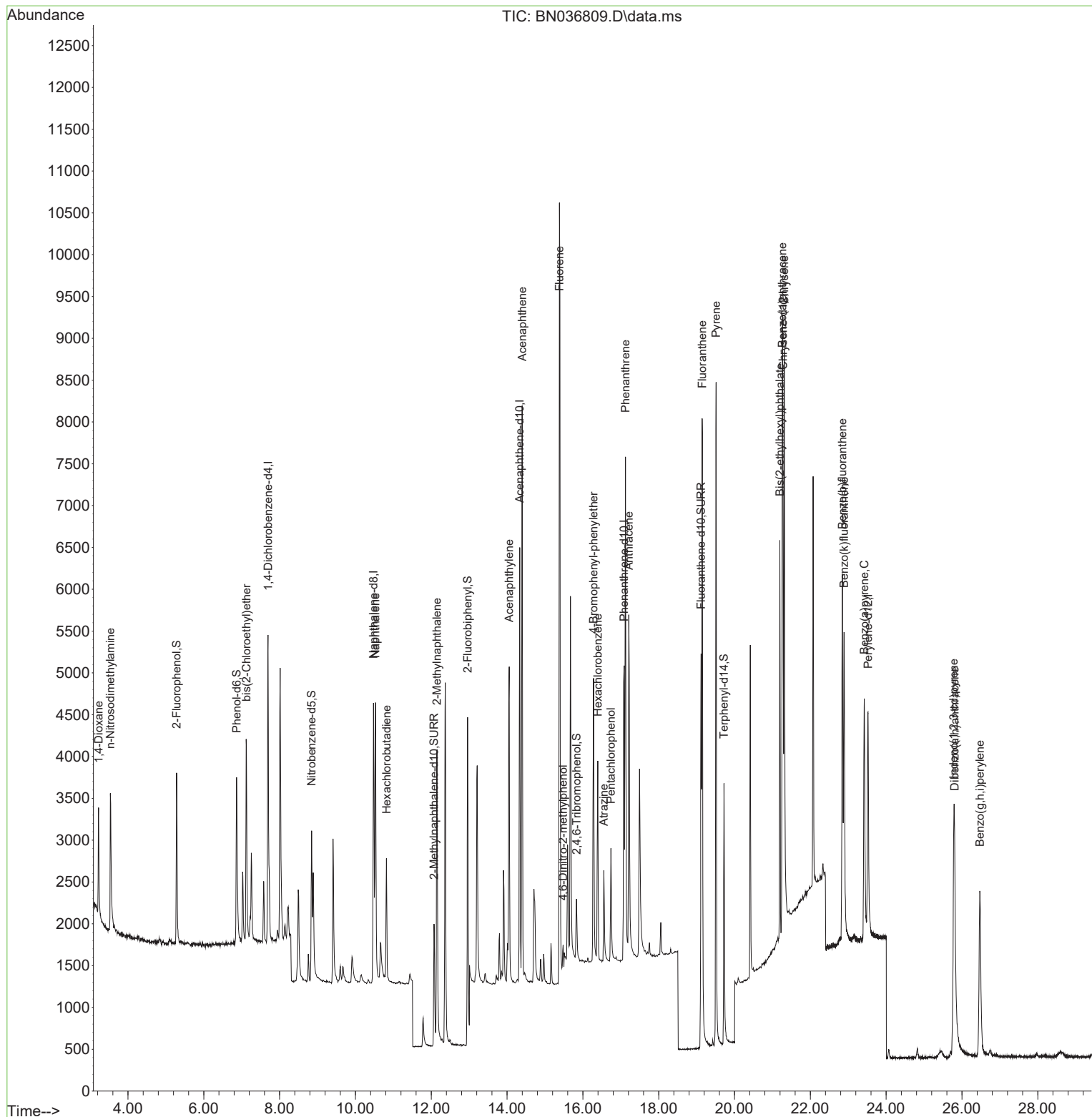
Quant Time: Mar 31 12:10:51 2025

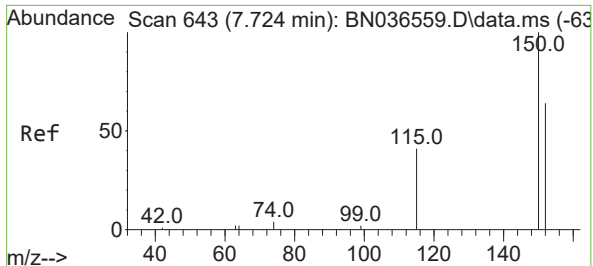
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Mar 10 16:06:28 2025

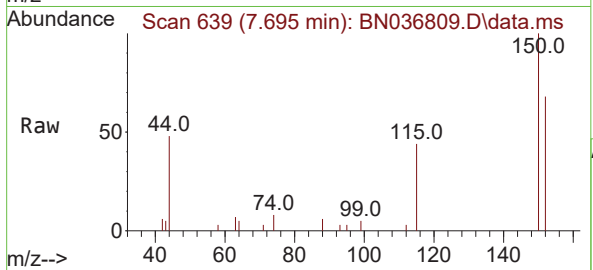
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 61
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

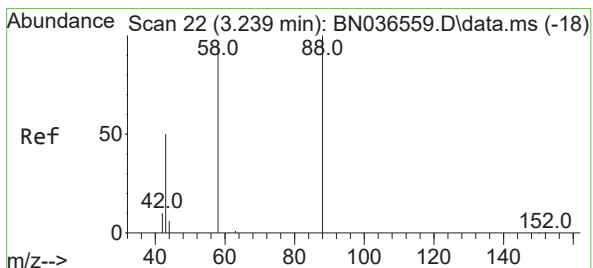
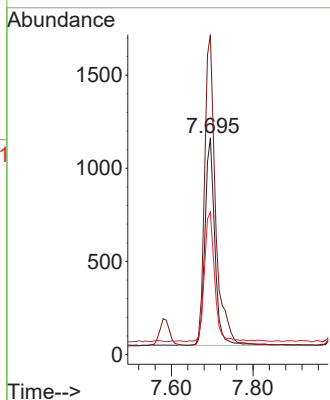
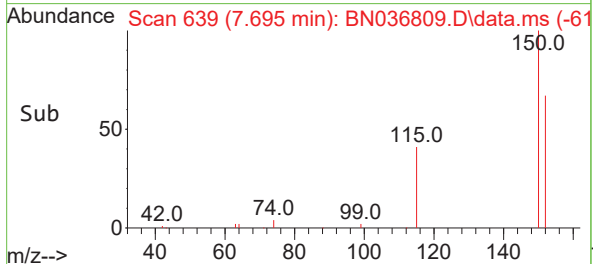
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 188
Ion Ratio Lower Upper
152 100
150 147.6 123.7 185.5
115 65.7 54.3 81.5

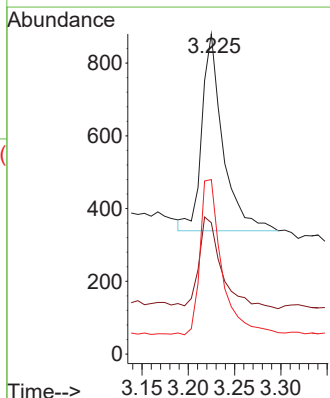
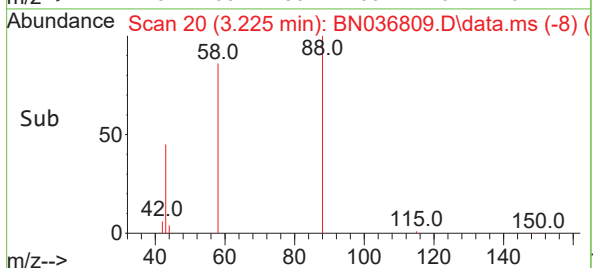
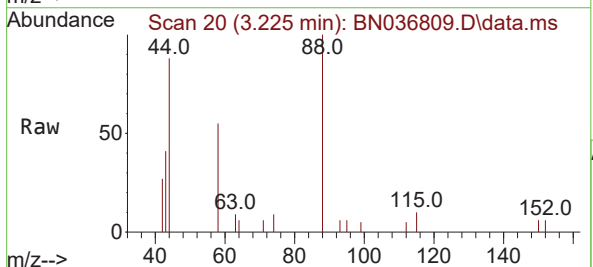
Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

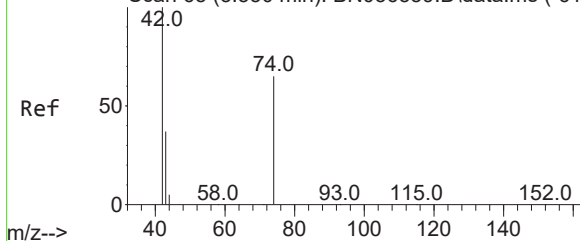


#2
1,4-Dioxane
Concen: 0.409 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 88 Resp: 857
Ion Ratio Lower Upper
88 100
43 50.1 37.8 56.8
58 80.6 67.4 101.2



Abundance Scan 65 (3.550 min): BN036559.D\data.ms (-61)



#3

n-Nitrosodimethylamine

Concen: 0.396 ng

RT: 3.535 min Scan# 61

Delta R.T. -0.014 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

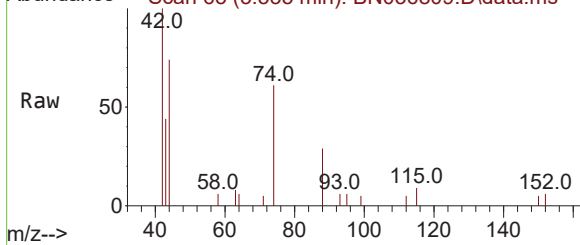
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Abundance Scan 63 (3.535 min): BN036809.D\data.ms



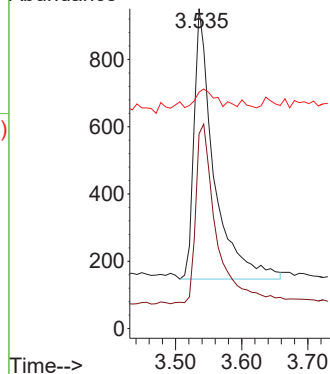
Tgt Ion:	42	Ratio	100	Lower	Upper
42	100				
74	69.2		60.6	90.8	
44	8.2		6.3	9.5	

Manual Integrations
APPROVED

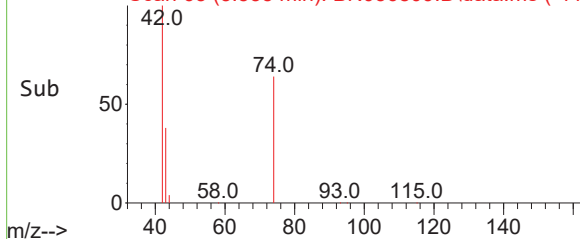
Reviewed By :Rahul Chavli 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025

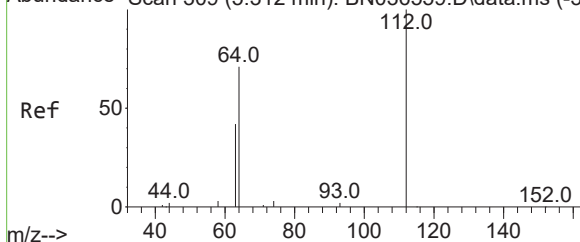
Abundance



Abundance Scan 63 (3.535 min): BN036809.D\data.ms (-44)



Abundance Scan 309 (5.312 min): BN036559.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.351 ng

RT: 5.283 min Scan# 305

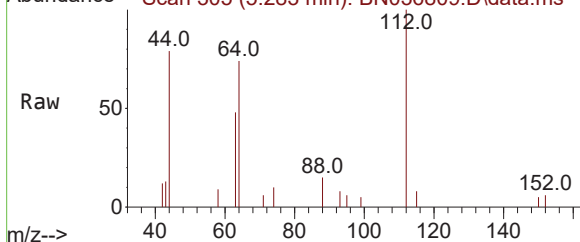
Delta R.T. -0.029 min

Lab File: BN036809.D

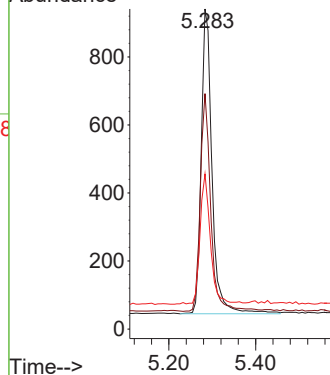
Acq: 31 Mar 2025 10:39

Tgt Ion:	112	Ratio	100	Lower	Upper
112	100				
64	69.6		53.1	79.7	
63	40.8		31.8	47.8	

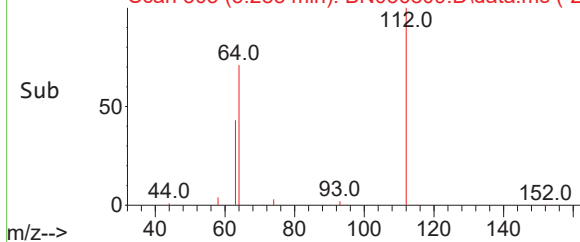
Abundance Scan 305 (5.283 min): BN036809.D\data.ms

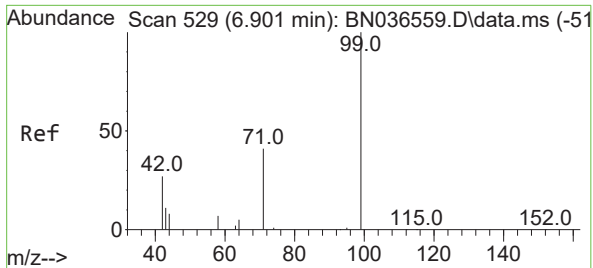


Abundance



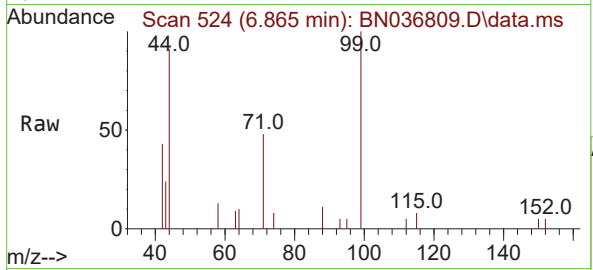
Abundance Scan 305 (5.283 min): BN036809.D\data.ms (-28)





#5
Phenol-d6
Concen: 0.331 ng
RT: 6.865 min Scan# 51
Delta R.T. -0.036 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

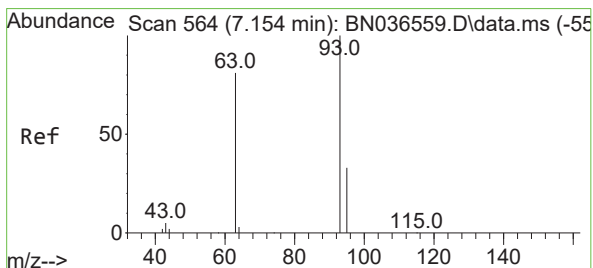
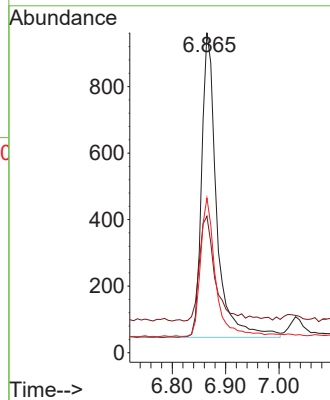
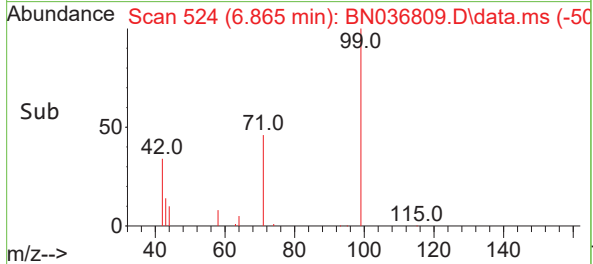
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 99 Resp: 1799
Ion Ratio Lower Upper
99 100
42 37.9 26.5 39.7
71 44.8 34.1 51.1

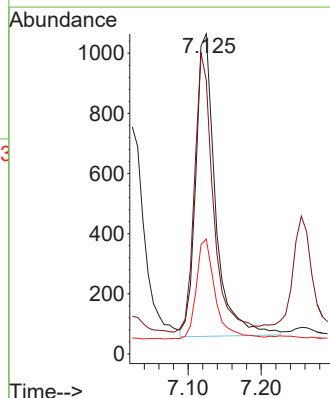
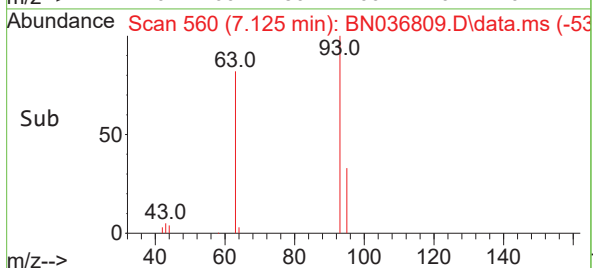
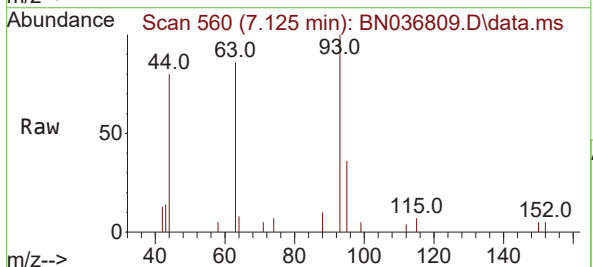
Manual Integrations
APPROVED

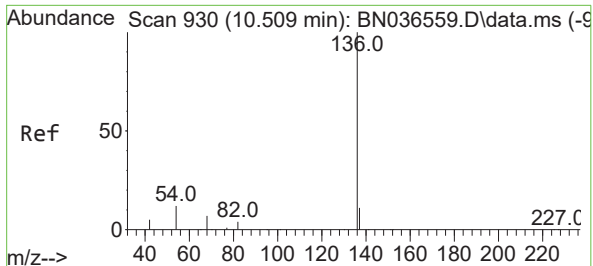
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.336 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

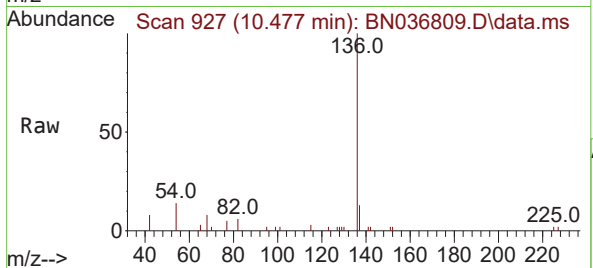
Tgt Ion: 93 Resp: 1889
Ion Ratio Lower Upper
93 100
63 87.3 67.7 101.5
95 31.9 25.6 38.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

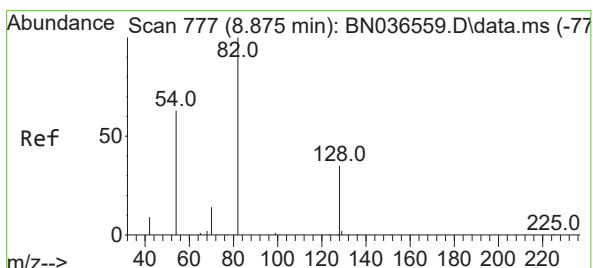
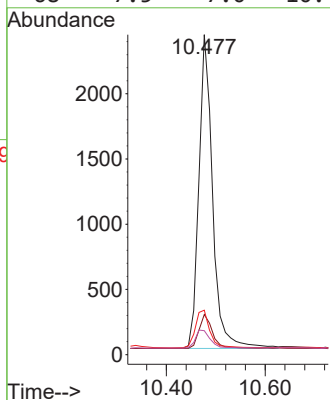
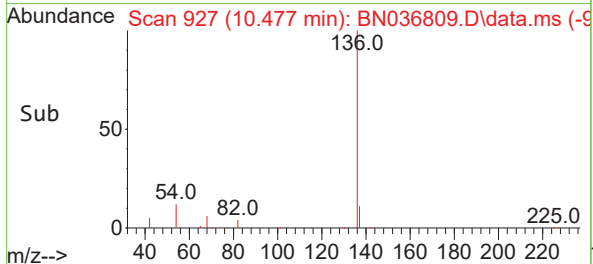
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:136 Resp: 465
Ion Ratio Lower Upper
136 100
137 12.5 10.3 15.5
54 13.9 11.5 17.3
68 7.5 7.0 10.4

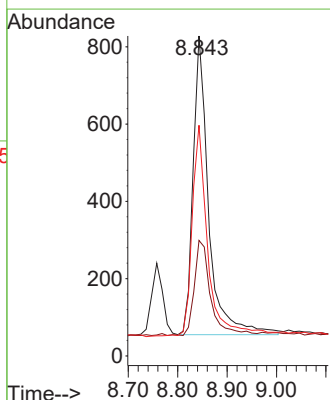
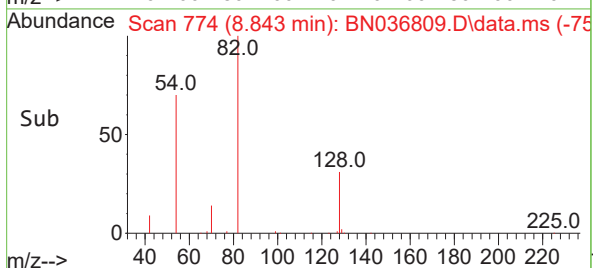
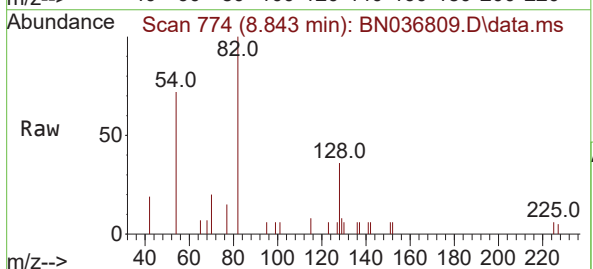
Manual Integrations
APPROVED

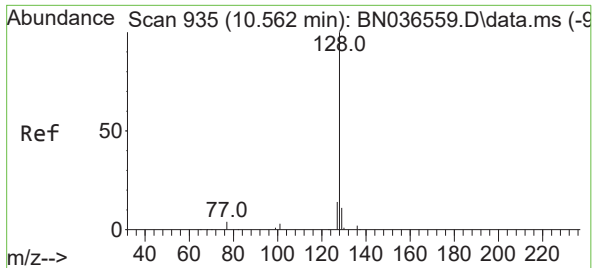
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#8
Nitrobenzene-d5
Concen: 0.333 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 82 Resp: 1689
Ion Ratio Lower Upper
82 100
128 36.1 30.6 45.8
54 72.1 52.2 78.4





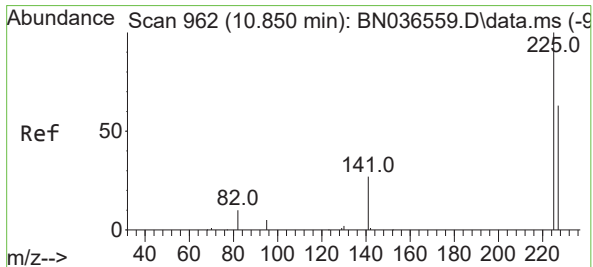
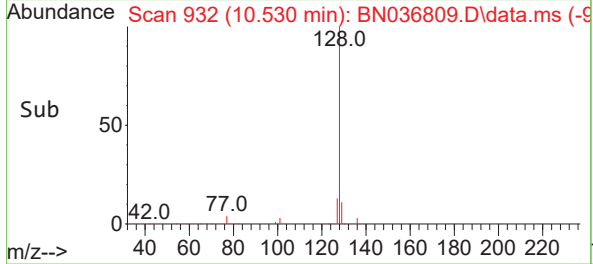
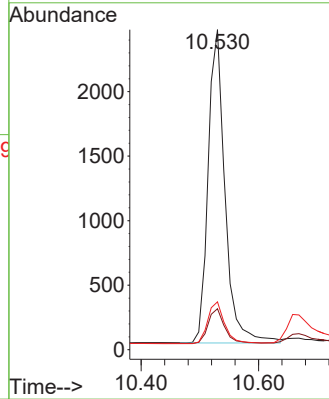
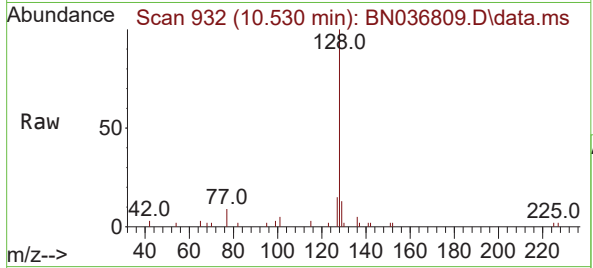
#9
Naphthalene
Concen: 0.354 ng
RT: 10.530 min Scan# 911
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 485
Ion Ratio Lower Upper
128 100
129 12.8 9.8 14.6
127 15.0 11.8 17.8

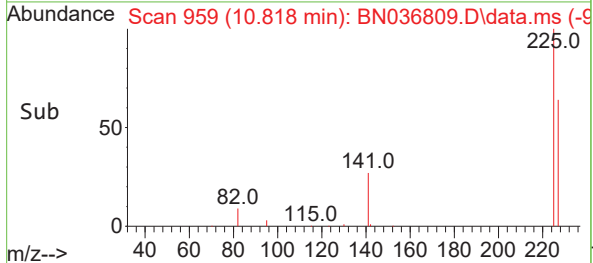
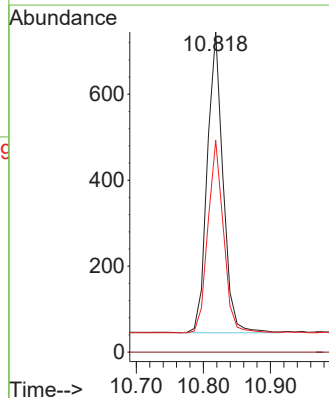
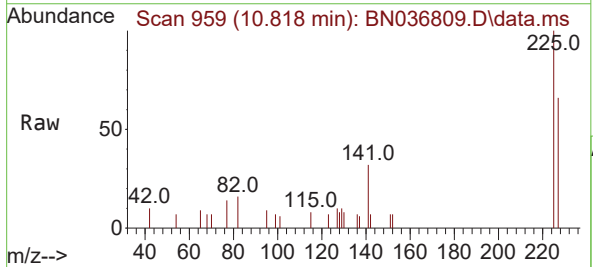
Manual Integrations
APPROVED

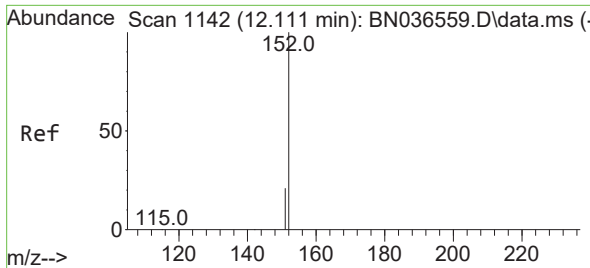
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#10
Hexachlorobutadiene
Concen: 0.354 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:225 Resp: 1142
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.1 51.8 77.8





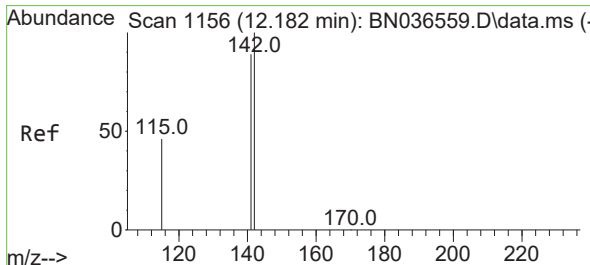
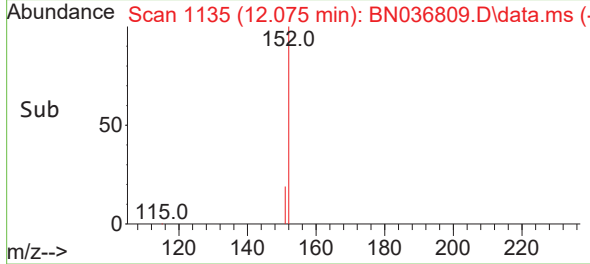
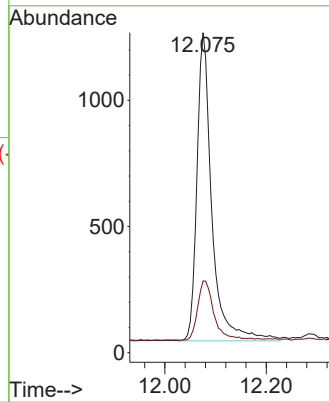
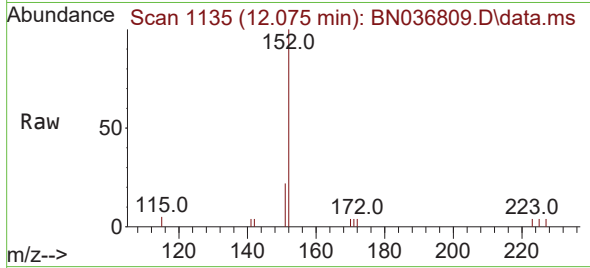
#11
2-Methylnaphthalene-d10
Concen: 0.361 ng
RT: 12.075 min Scan# 1135
Delta R.T. -0.035 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 250
Ion Ratio Lower Upper
152 100
151 20.8 17.0 25.6

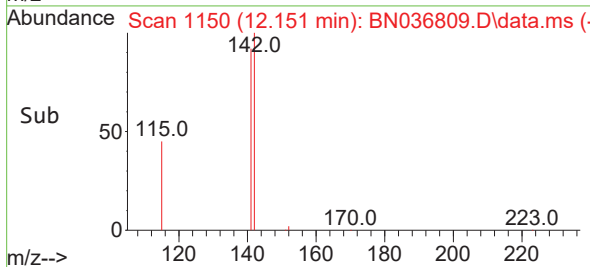
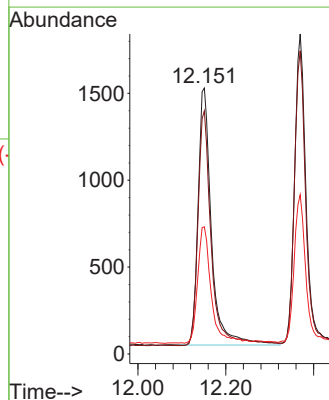
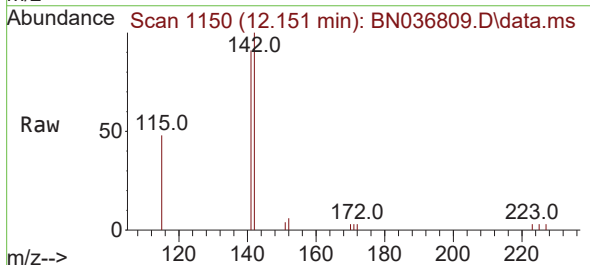
Manual Integrations
APPROVED

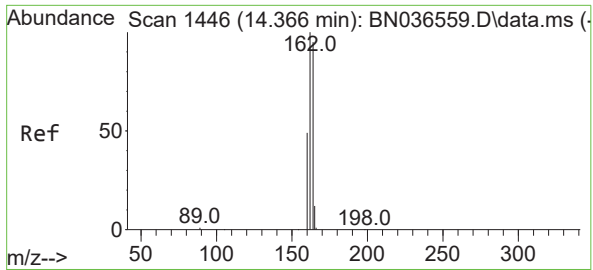
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#12
2-Methylnaphthalene
Concen: 0.361 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

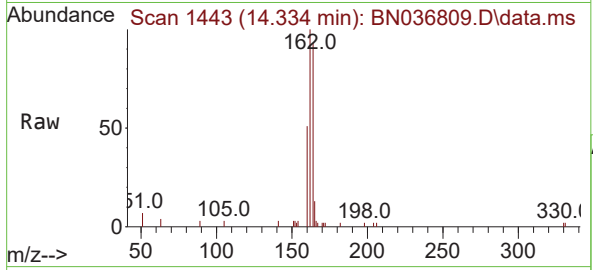
Tgt Ion:142 Resp: 3144
Ion Ratio Lower Upper
142 100
141 91.4 71.7 107.5
115 47.8 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

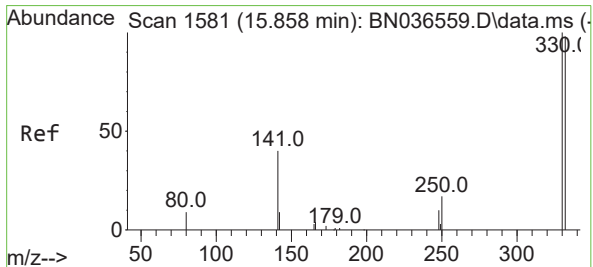
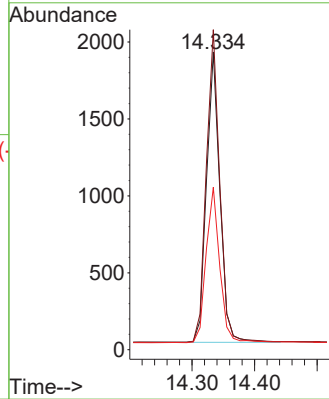
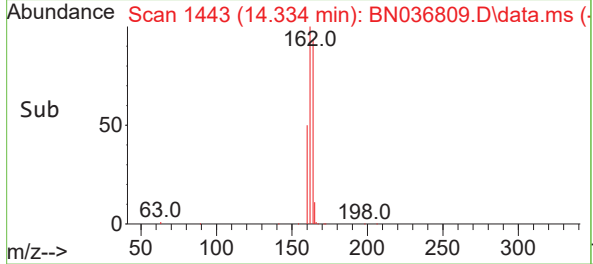
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



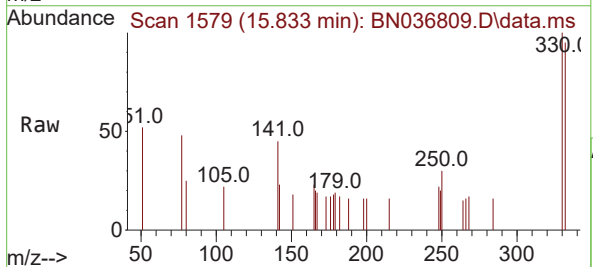
Tgt Ion:164 Resp: 2798
Ion Ratio Lower Upper
164 100
162 107.5 84.2 126.2
160 54.6 42.2 63.2

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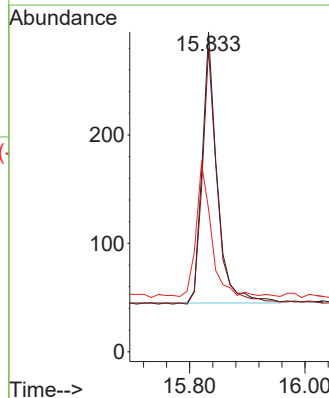
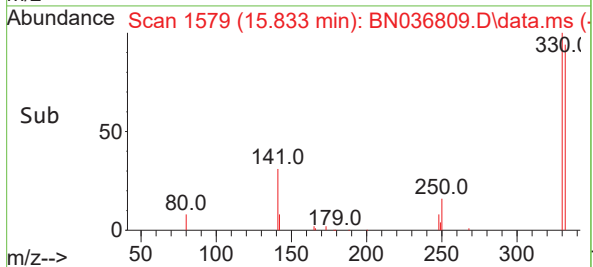
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

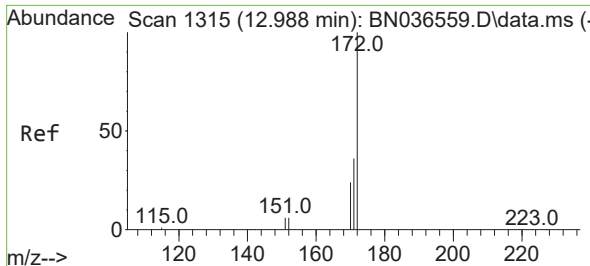


#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39



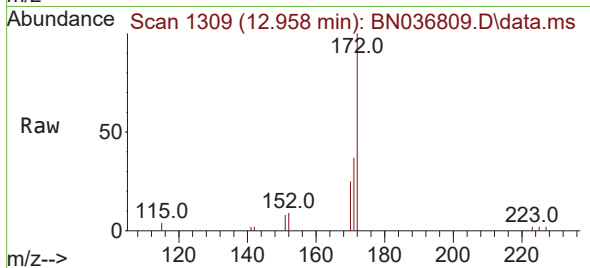
Tgt Ion:330 Resp: 451
Ion Ratio Lower Upper
330 100
332 95.3 75.2 112.8
141 53.9 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.340 ng
RT: 12.958 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

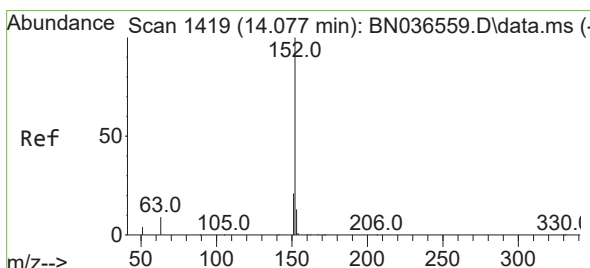
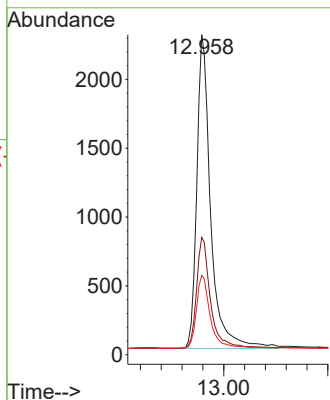
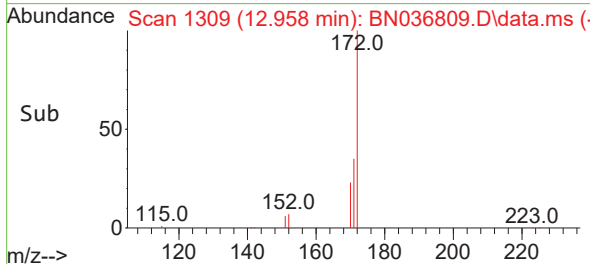
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:172 Resp: 553
Ion Ratio Lower Upper
172 100
171 36.6 29.5 44.3
170 24.8 20.2 30.4

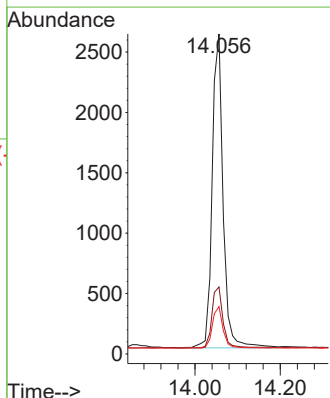
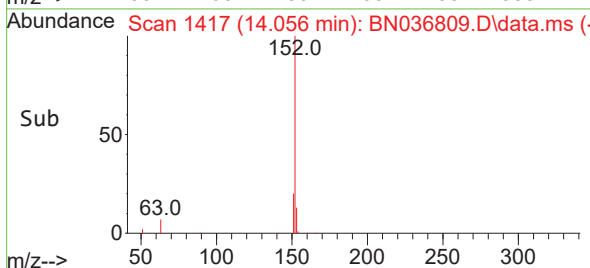
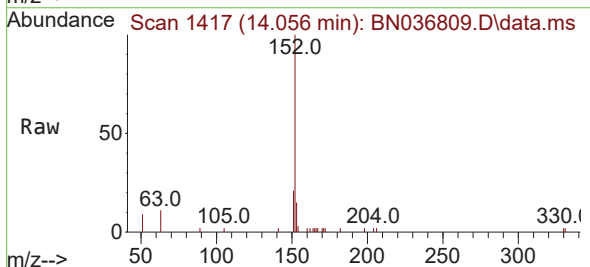
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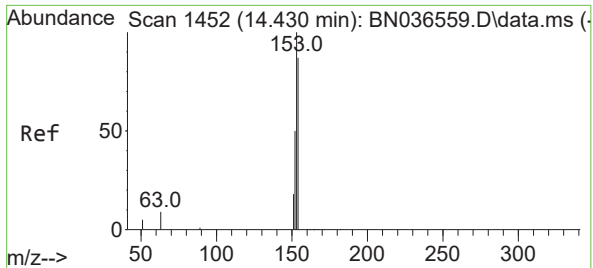
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#16
Acenaphthylene
Concen: 0.350 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

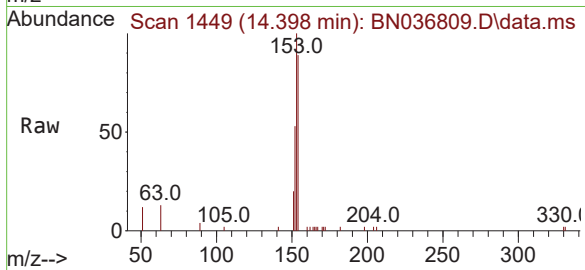
Tgt Ion:152 Resp: 4617
Ion Ratio Lower Upper
152 100
151 19.5 16.2 24.4
153 13.2 10.6 15.8





#17
Acenaphthene
Concen: 0.366 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

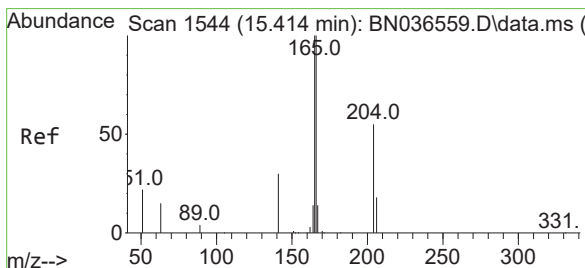
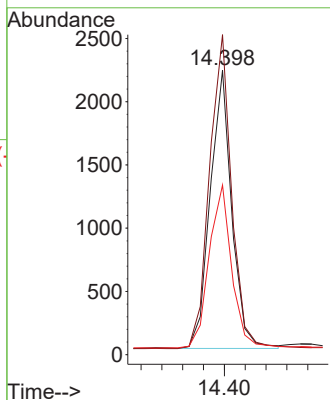
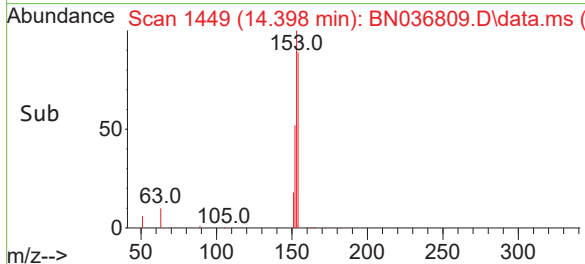
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 316
Ion Ratio Lower Upper
154 100
153 116.9 94.1 141.1
152 62.4 49.8 74.6

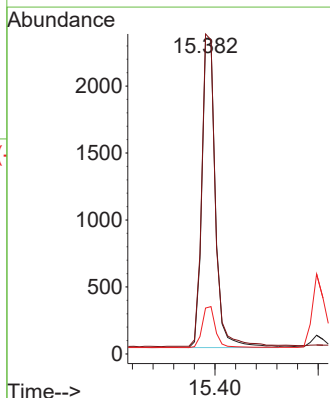
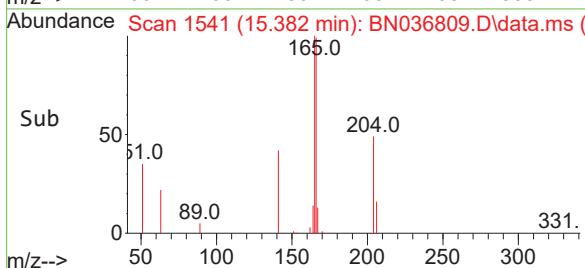
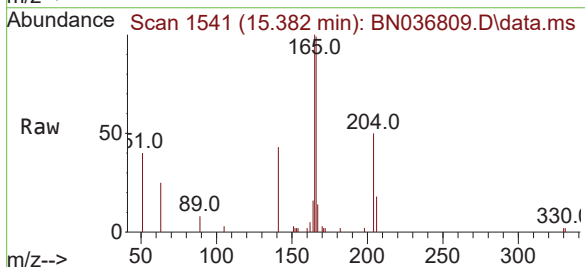
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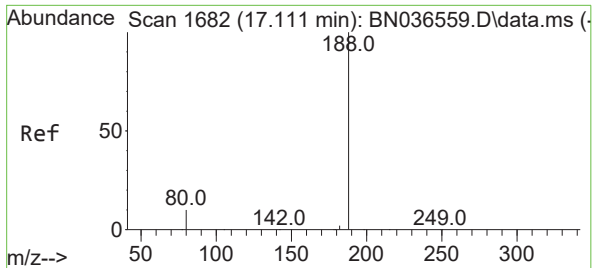
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#18
Fluorene
Concen: 0.362 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:166 Resp: 4232
Ion Ratio Lower Upper
166 100
165 100.4 79.8 119.8
167 13.2 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. -0.025 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

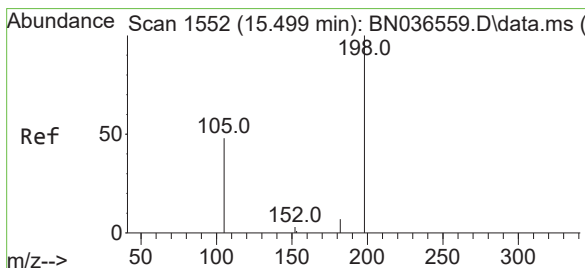
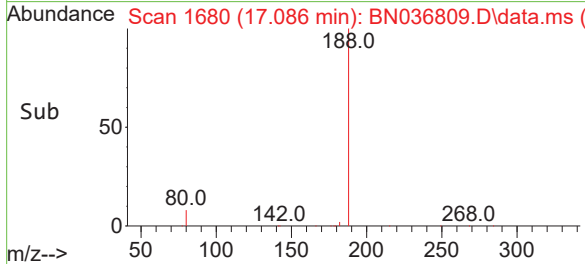
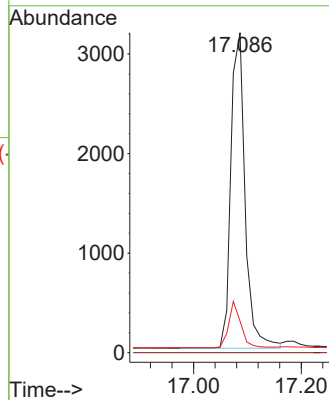
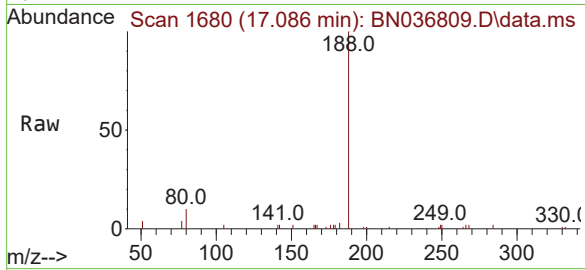
Tgt Ion:188	Resp:	580
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	9.9	13.2

Manual Integrations

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Reviewed By :Rahul Chavli 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.419 ng

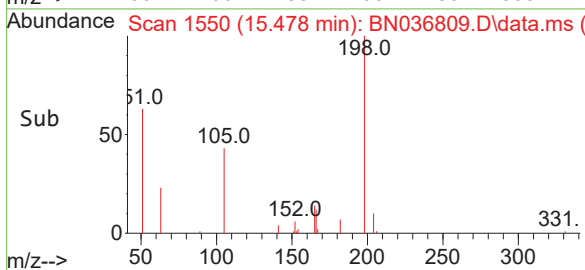
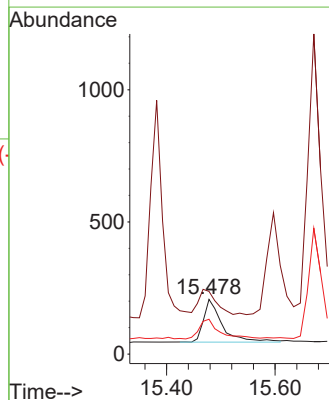
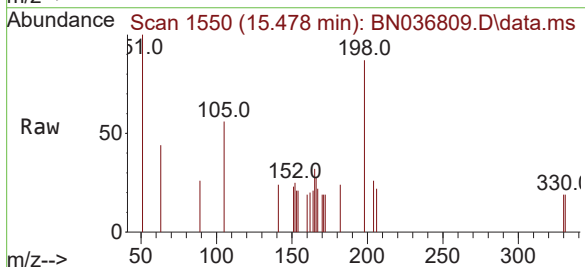
RT: 15.478 min Scan# 1550

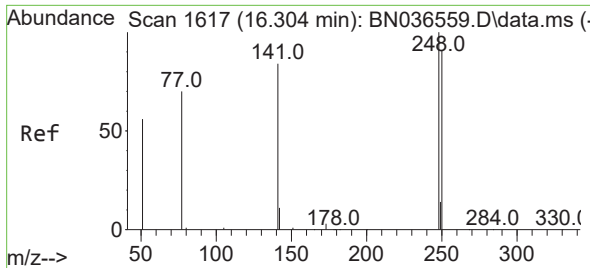
Delta R.T. -0.021 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

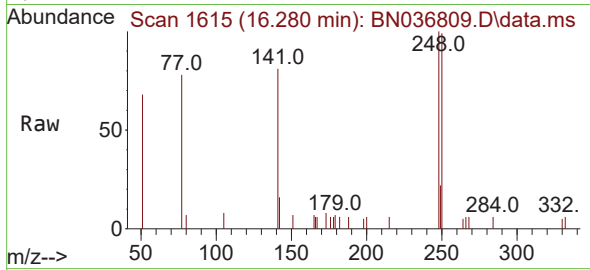
Tgt Ion:198	Resp:	405
Ion Ratio	Lower	Upper
198	100	
51	114.5	107.9
105	63.8	56.2





#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

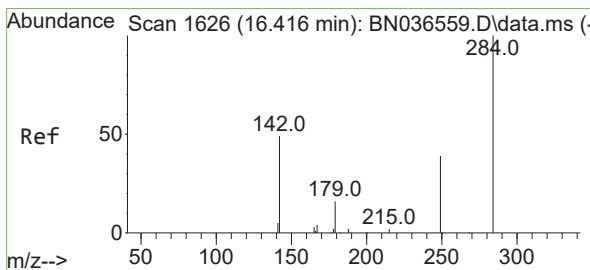
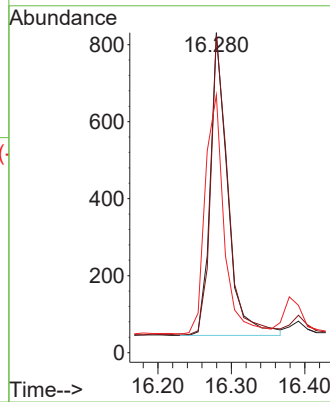
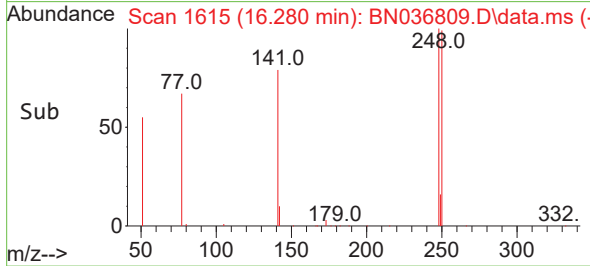
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:248 Resp: 1292
Ion Ratio Lower Upper
248 100
250 99.2 73.0 109.6
141 80.5 68.6 103.0

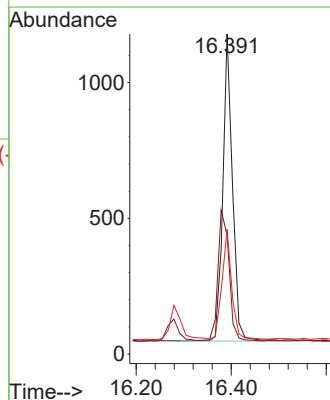
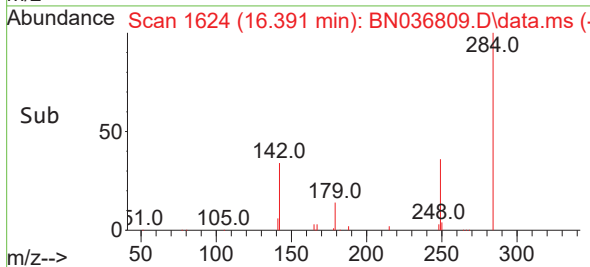
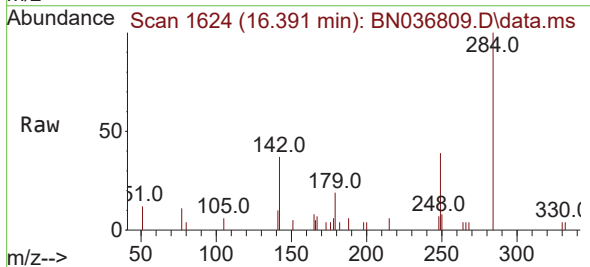
Manual Integrations
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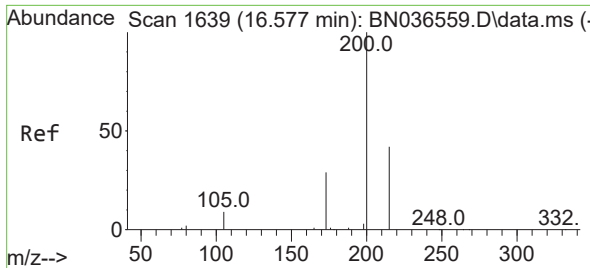
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#22
Hexachlorobenzene
Concen: 0.361 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

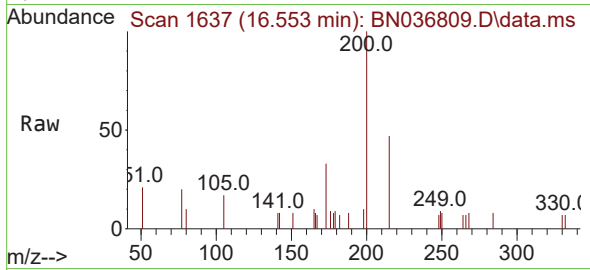
Tgt Ion:284 Resp: 1587
Ion Ratio Lower Upper
284 100
142 49.0 37.0 55.4
249 35.5 28.1 42.1





#23
Atrazine
Concen: 0.376 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

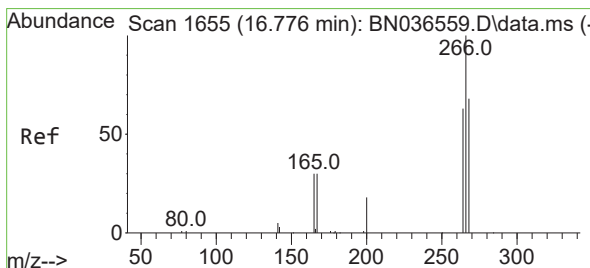
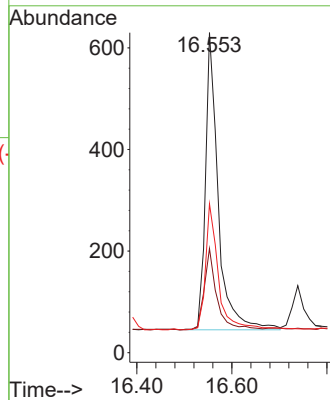
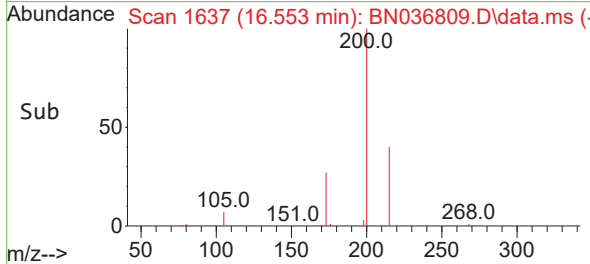
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 1090
Ion Ratio Lower Upper
200 100
173 32.5 27.3 40.9
215 46.5 36.8 55.2

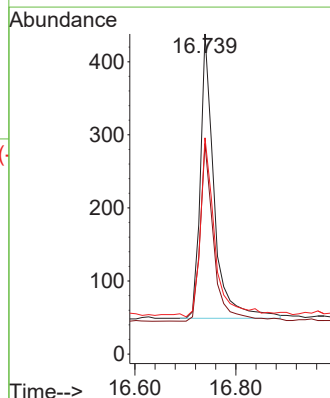
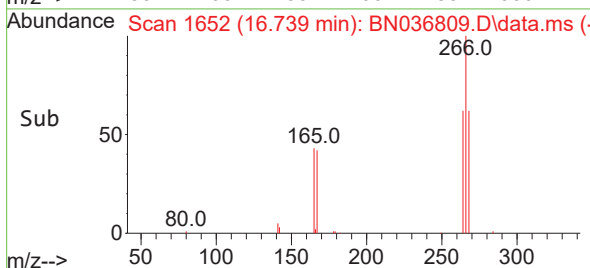
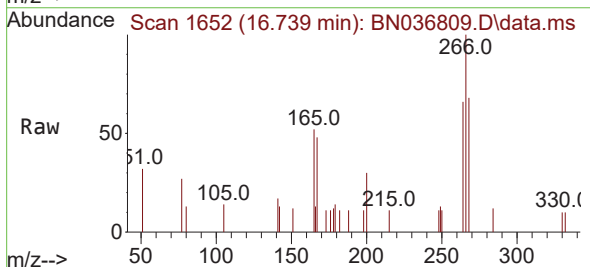
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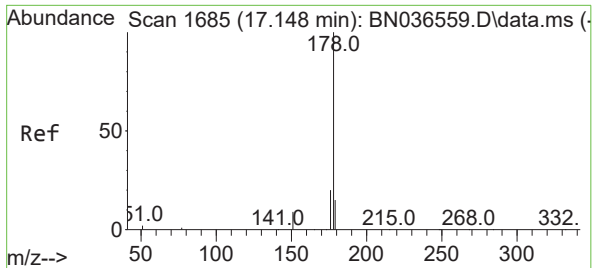
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#24
Pentachlorophenol
Concen: 0.371 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

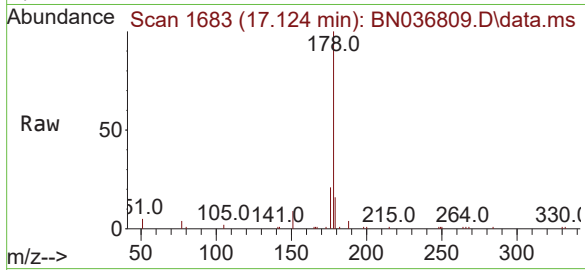
Tgt Ion:266 Resp: 743
Ion Ratio Lower Upper
266 100
264 61.8 49.6 74.4
268 66.6 50.9 76.3





#25
Phenanthrene
Concen: 0.378 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

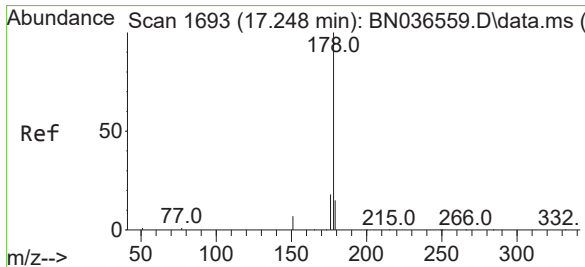
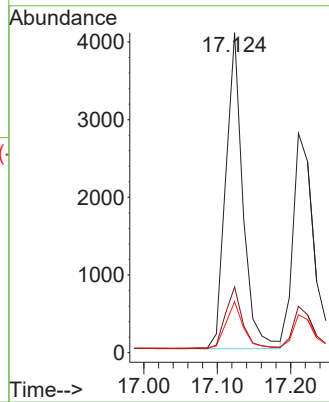
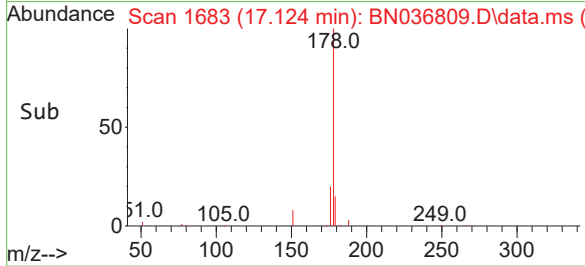
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:178 Resp: 658
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.1 12.2 18.4

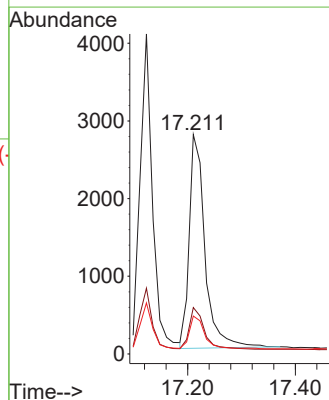
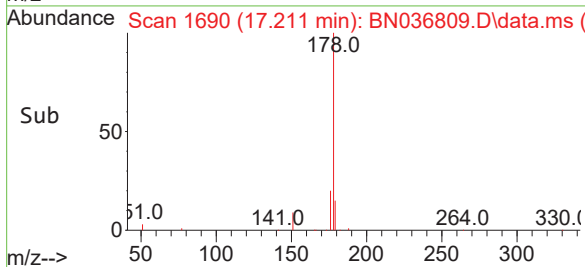
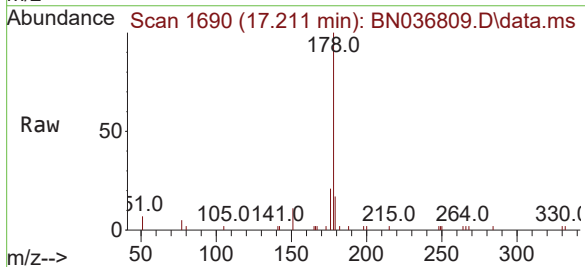
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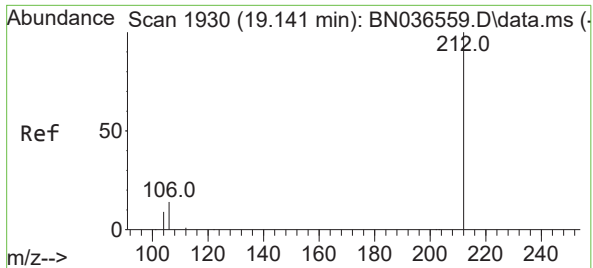
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#26
Anthracene
Concen: 0.355 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:178 Resp: 5583
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.3 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.386 ng

RT: 19.118 min Scan# 1930

Delta R.T. -0.023 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:212 Resp: 5750

Ion Ratio Lower Upper

212 100

106 13.6 11.8 17.6

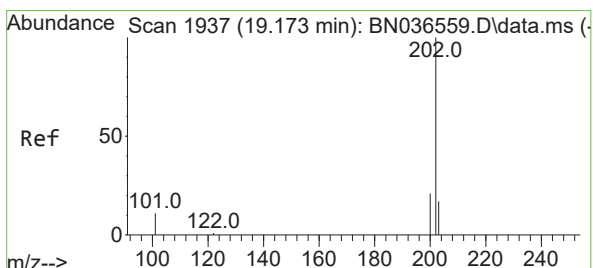
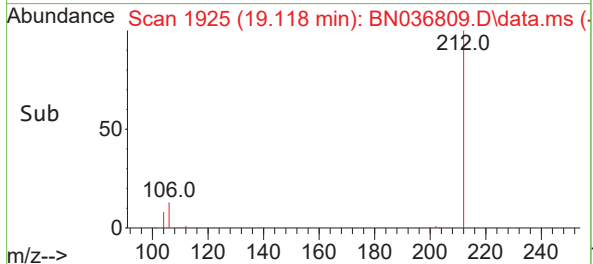
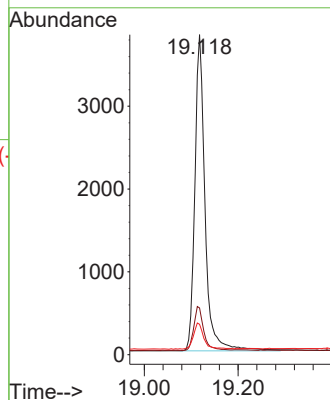
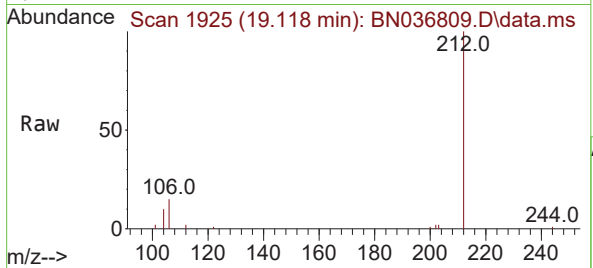
104 8.5 7.3 10.9

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Reviewed By :Rahul Chavli 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#28

Fluoranthene

Concen: 0.388 ng

RT: 19.150 min Scan# 1932

Delta R.T. -0.023 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

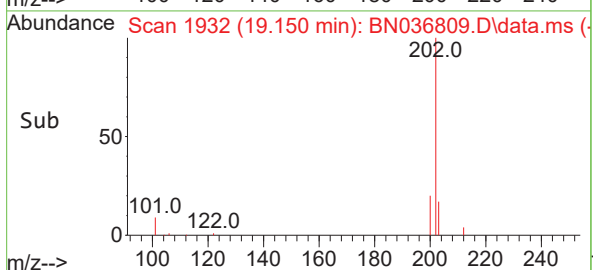
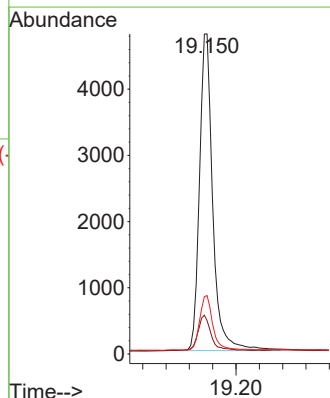
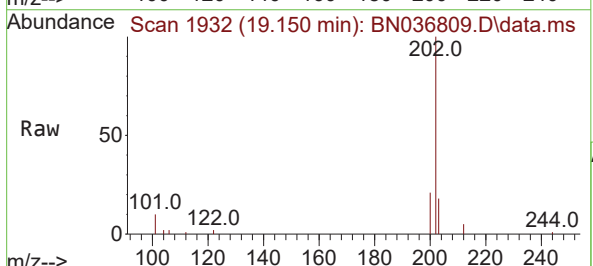
Tgt Ion:202 Resp: 7591

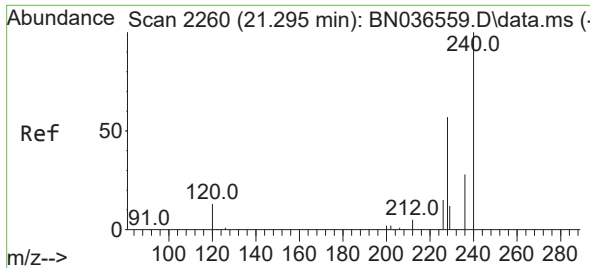
Ion Ratio Lower Upper

202 100

101 11.2 9.4 14.0

203 17.1 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:240 Resp: 4580

Ion Ratio Lower Upper

240 100

120 12.7 14.6 22.0

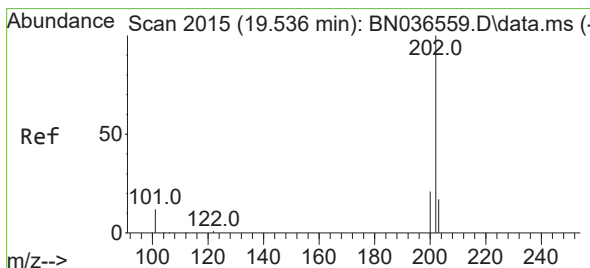
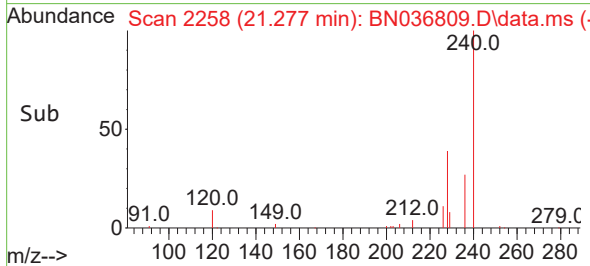
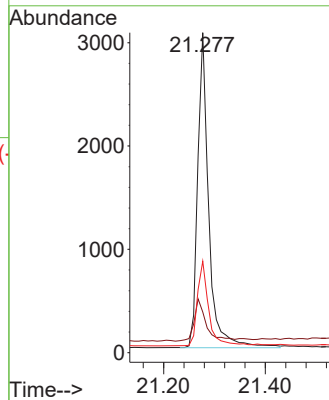
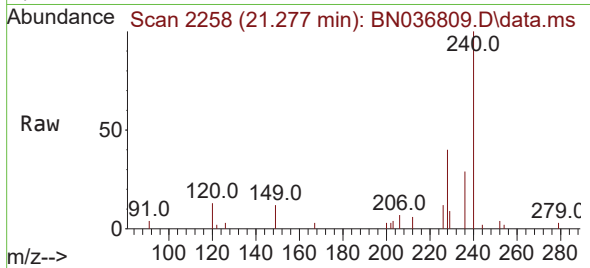
236 28.6 24.1 36.1

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Reviewed By :Rahul Chavli 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#30

Pyrene

Concen: 0.348 ng

RT: 19.513 min Scan# 2010

Delta R.T. -0.023 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

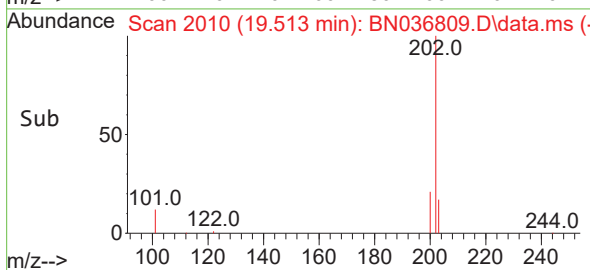
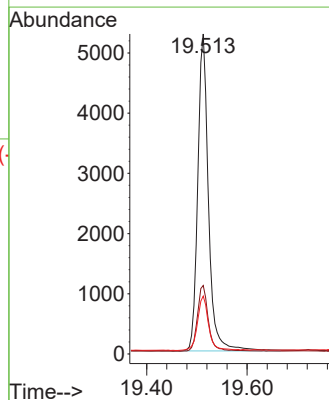
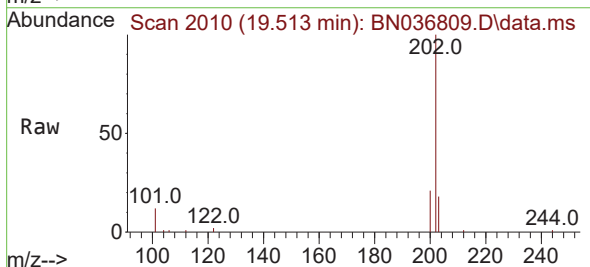
Tgt Ion:202 Resp: 7799

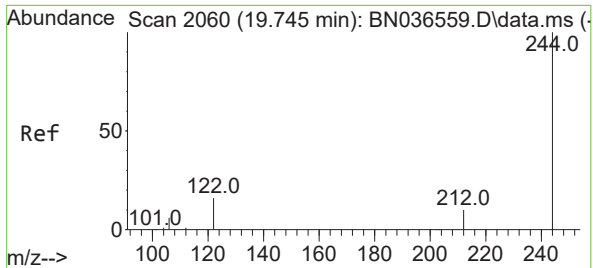
Ion Ratio Lower Upper

202 100

200 21.1 17.1 25.7

203 17.5 14.1 21.1





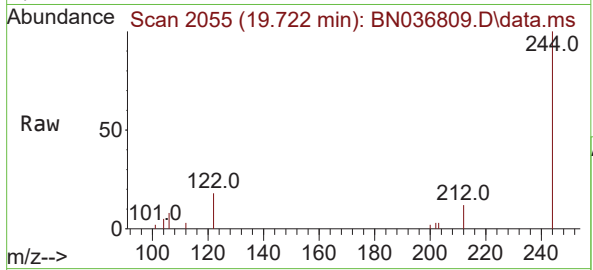
#31
Terphenyl-d14
Concen: 0.333 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



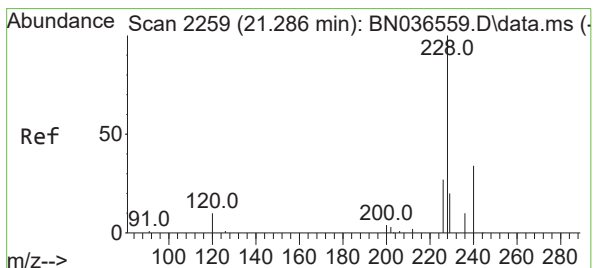
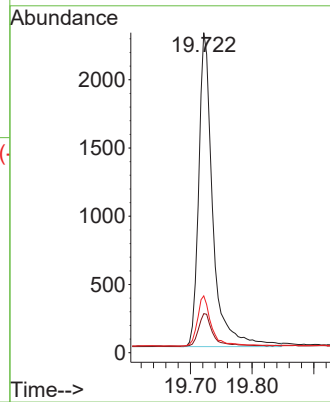
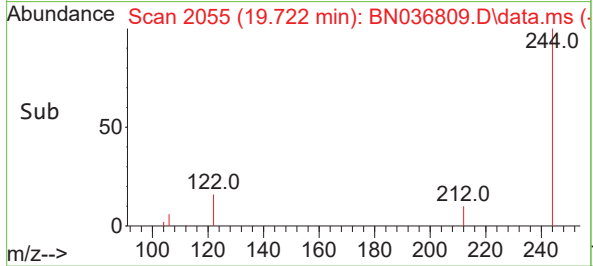
Tgt Ion:244 Resp: 3660
Ion Ratio Lower Upper
244 100
212 12.2 9.6 14.4
122 17.7 13.9 20.9

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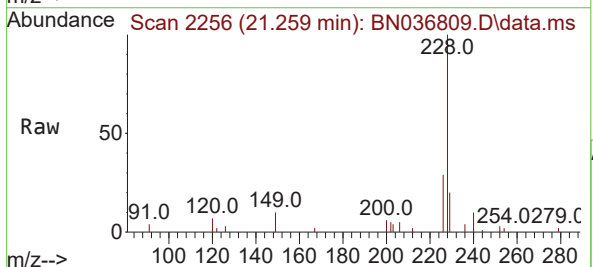
APPROVED

Reviewed By :Rahul Chavli 03/31/2025

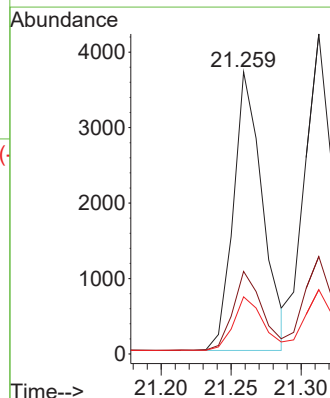
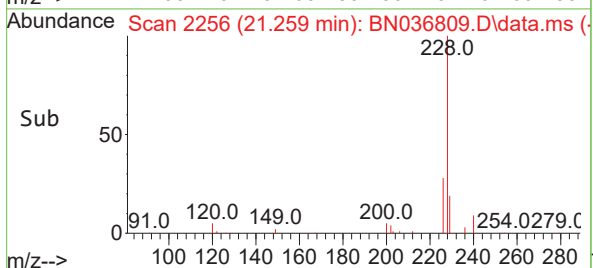
Supervised By :Jagrut Upadhyay 04/01/2025

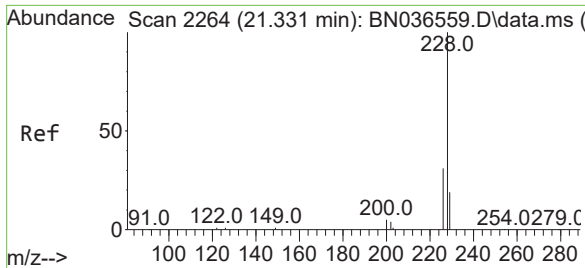


#32
Benzo(a)anthracene
Concen: 0.337 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39



Tgt Ion:228 Resp: 5377
Ion Ratio Lower Upper
228 100
226 29.3 22.5 33.7
229 20.2 16.6 25.0





#33

Chrysene

Concen: 0.381 ng

RT: 21.313 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:228 Resp: 6640

Ion Ratio Lower Upper

228 100

226 30.4 25.3 37.9

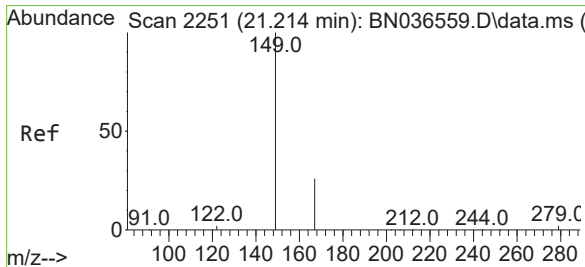
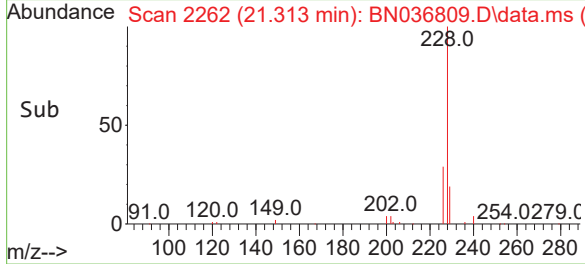
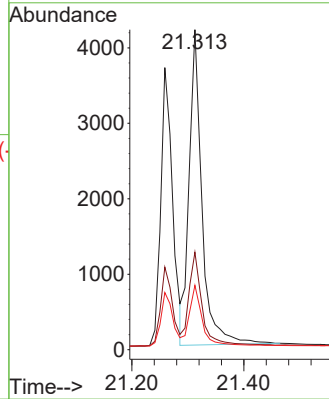
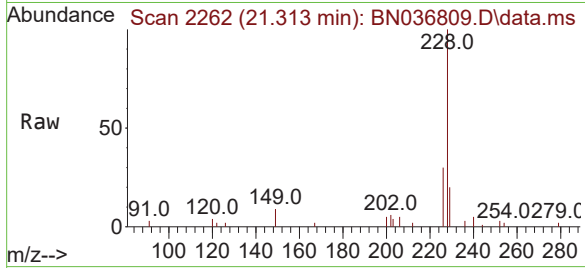
229 20.1 15.8 23.8

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Reviewed By :Rahul Chavli 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.365 ng

RT: 21.196 min Scan# 2249

Delta R.T. -0.018 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

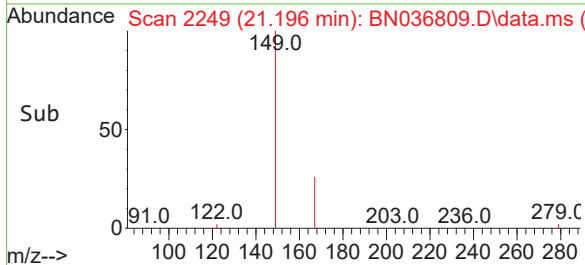
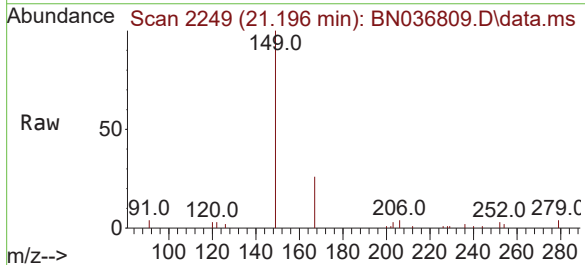
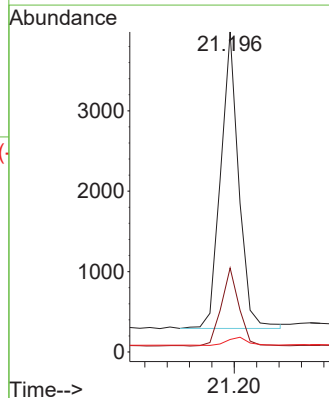
Tgt Ion:149 Resp: 4143

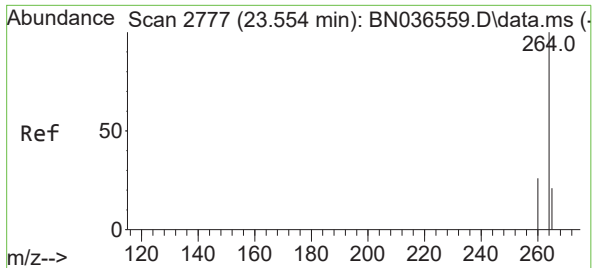
Ion Ratio Lower Upper

149 100

167 26.0 20.7 31.1

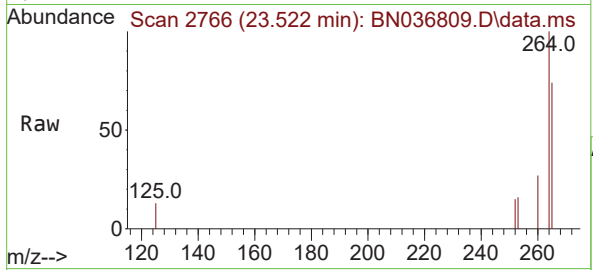
279 3.0 3.6 5.4#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.522 min Scan# 21
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

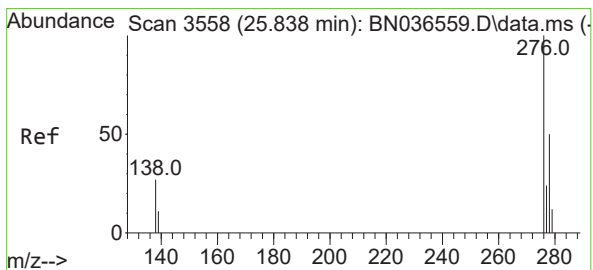
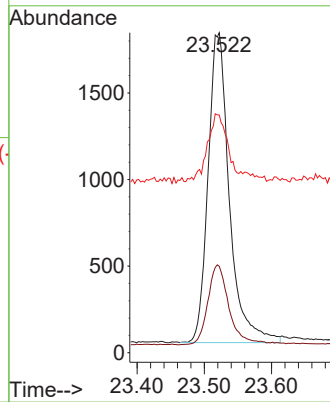
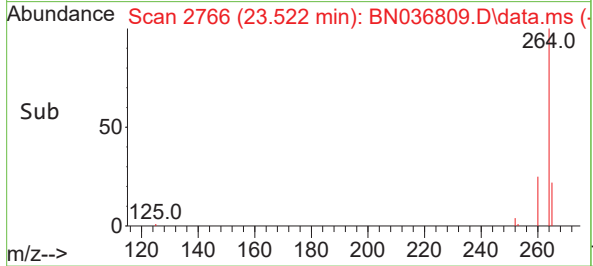
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 394
Ion Ratio Lower Upper
264 100
260 27.0 22.6 33.8
265 74.3 88.1 132.1

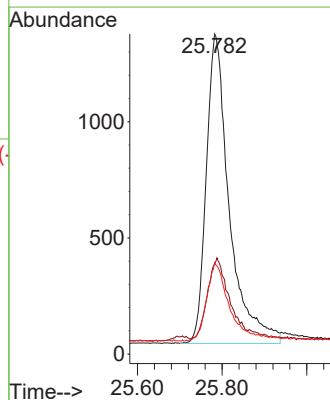
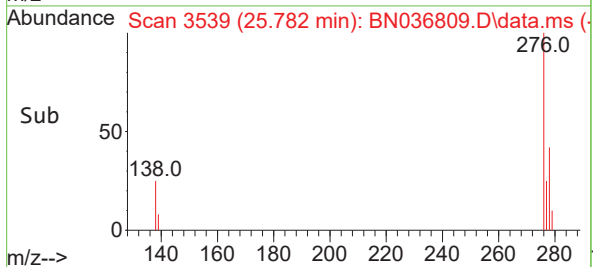
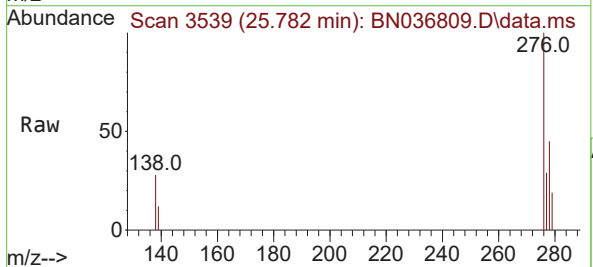
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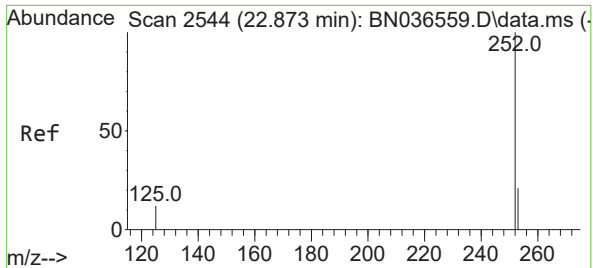
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.352 ng
RT: 25.782 min Scan# 3539
Delta R.T. -0.056 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:276 Resp: 5019
Ion Ratio Lower Upper
276 100
138 24.2 23.4 35.2
277 24.6 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.383 ng

RT: 22.844 min Scan# 2549

Delta R.T. -0.029 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

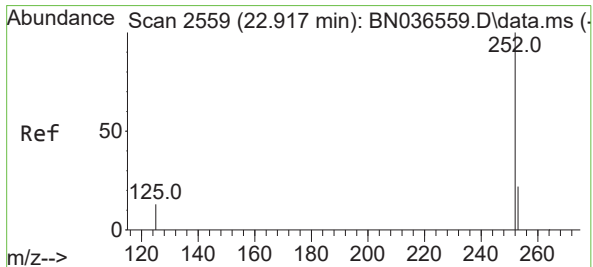
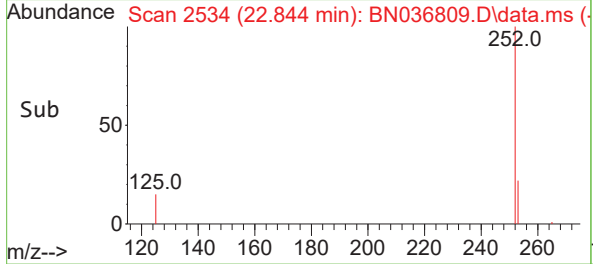
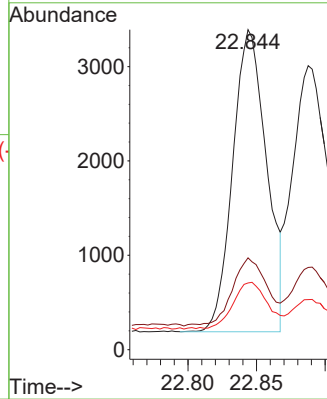
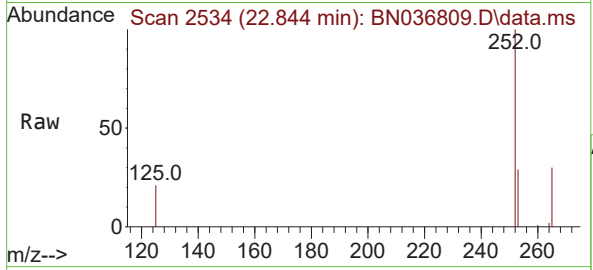
Tgt Ion:252	Resp:	549
Ion Ratio	Lower	Upper
252	100	
253	28.7	23.9 35.9
125	20.8	17.4 26.2

Manual Integrations

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Reviewed By :Rahul Chavli 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#38

Benzo(k)fluoranthene

Concen: 0.381 ng m

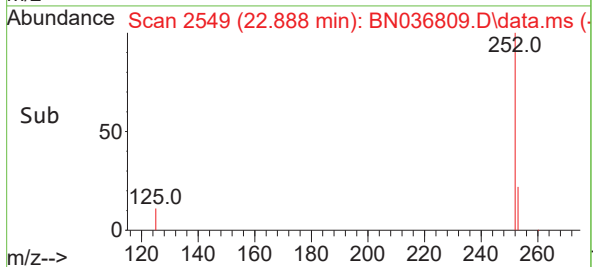
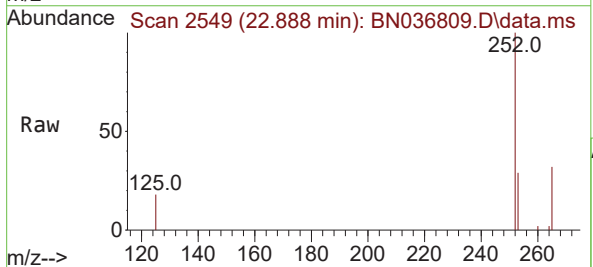
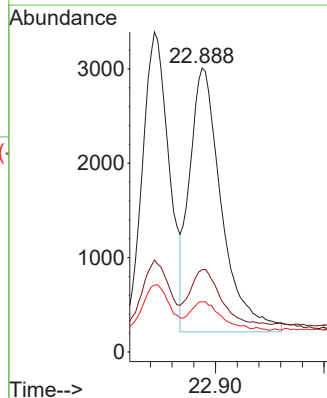
RT: 22.888 min Scan# 2549

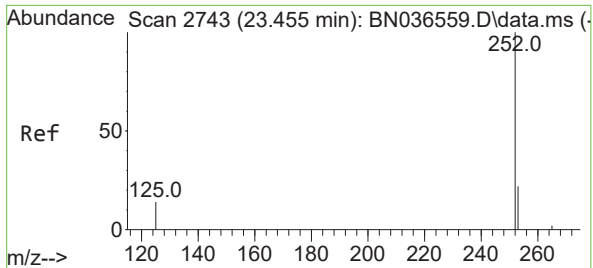
Delta R.T. -0.029 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

Tgt Ion:252	Resp:	5737
Ion Ratio	Lower	Upper
252	100	
253	28.9	24.6 36.8
125	17.6	17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 23.423 min Scan# 21

Delta R.T. -0.032 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

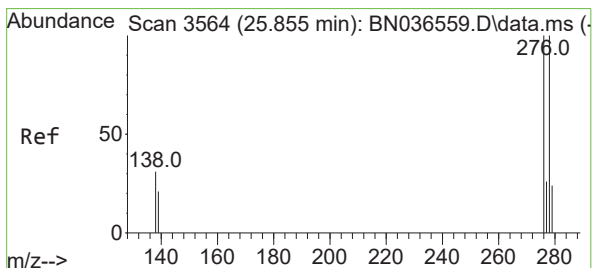
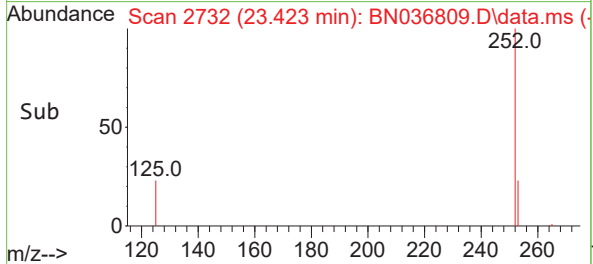
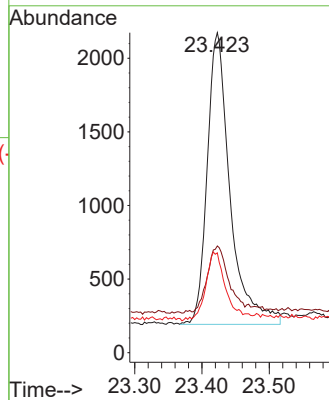
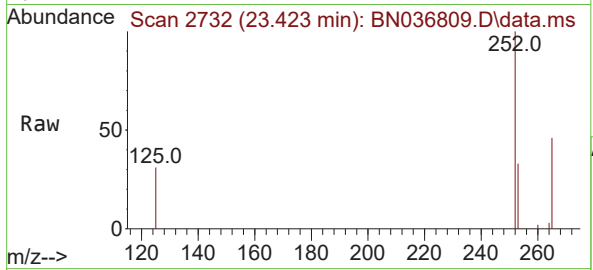
Tgt Ion:	252	Resp:	4679
Ion Ratio	Lower	Upper	
252	100		
253	33.3	27.8	41.8
125	31.2	22.7	34.1

Manual Integrations

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Reviewed By :Rahul Chavli 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.330 ng

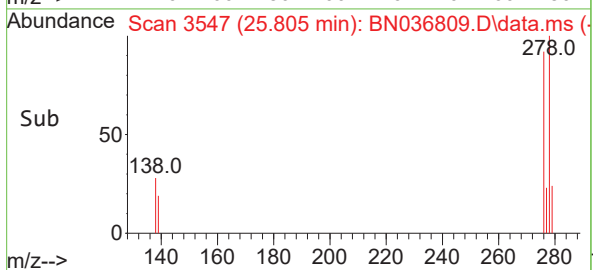
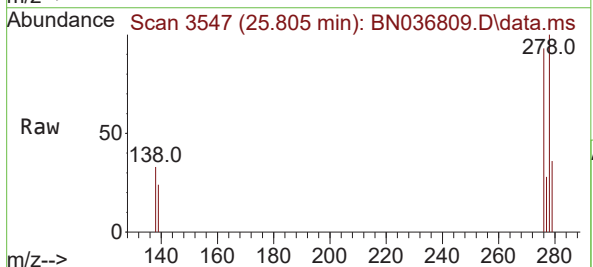
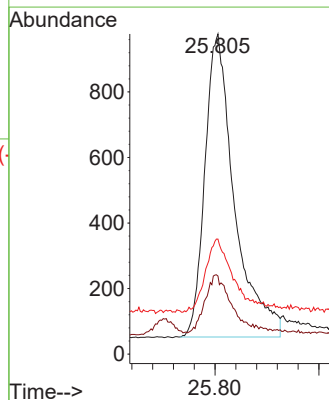
RT: 25.805 min Scan# 3547

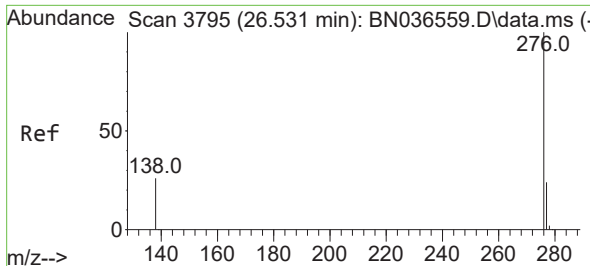
Delta R.T. -0.050 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

Tgt Ion:	278	Resp:	3655
Ion Ratio	Lower	Upper	
278	100		
139	24.4	20.8	31.2
279	35.9	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.358 ng

RT: 26.472 min Scan# 31

Delta R.T. -0.058 min

Lab File: BN036809.D

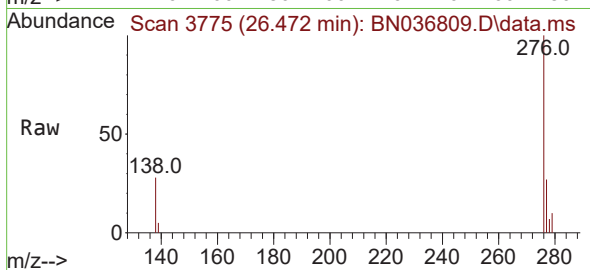
Acq: 31 Mar 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 454

Ion Ratio Lower Upper

276 100

277 26.8 22.2 33.4

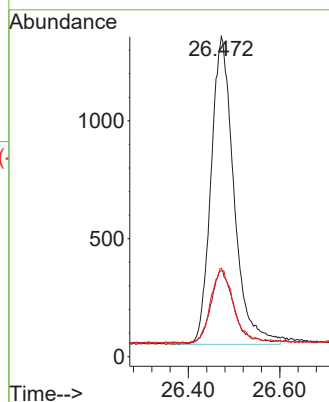
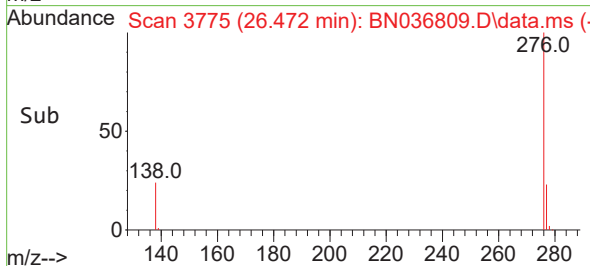
138 27.6 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 31 12:10:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	86	-0.03
2	1,4-Dioxane	0.444	0.454	-2.3	78	-0.01
3	n-Nitrosodimethylamine	0.898	0.888	1.1	81	-0.01
4 S	2-Fluorophenol	0.932	0.818	12.2	71	-0.03
5 S	Phenol-d6	1.152	0.953	17.3	72	-0.04
6	bis(2-Chloroethyl)ether	1.190	1.001	15.9	72	-0.03
7 I	Naphthalene-d8	1.000	1.000	0.0	91	-0.03
8 S	Nitrobenzene-d5	0.435	0.363	16.6	80	-0.03
9	Naphthalene	1.177	1.042	11.5	79	-0.03
10	Hexachlorobutadiene	0.277	0.245	11.6	76	-0.03
11 SURR	2-Methylnaphthalene-d10	0.595	0.537	9.7	81	-0.04
12	2-Methylnaphthalene	0.749	0.675	9.9	81	-0.03
13 I	Acenaphthene-d10	1.000	1.000	0.0	92	-0.03
14 S	2,4,6-Tribromophenol	0.182	0.161	11.5	80	-0.02
15 S	2-Fluorobiphenyl	2.327	1.979	15.0	76	-0.03
16	Acenaphthylene	1.888	1.650	12.6	79	-0.02
17	Acenaphthene	1.236	1.130	8.6	82	-0.03
18	Fluorene	1.672	1.513	9.5	79	-0.03
19 I	Phenanthrene-d10	1.000	1.000	0.0	97	-0.02
20	4,6-Dinitro-2-methylphenol	0.086	0.070	18.6	88	-0.02
21	4-Bromophenyl-phenylether	0.251	0.222	11.6	79	-0.02
22	Hexachlorobenzene	0.303	0.273	9.9	79	-0.02
23	Atrazine	0.201	0.189	6.0	86	-0.02
24	Pentachlorophenol	0.138	0.128	7.2	90	-0.04
25	Phenanthrene	1.200	1.133	5.6	85	-0.02
26	Anthracene	1.083	0.961	11.3	81	-0.04
27 SURR	Fluoranthene-d10	1.025	0.990	3.4	86	-0.02
28	Fluoranthene	1.348	1.307	3.0	87	-0.02
29 I	Chrysene-d12	1.000	1.000	0.0	112	-0.02
30	Pyrene	1.956	1.701	13.0	89	-0.02
31 S	Terphenyl-d14	0.958	0.798	16.7	87	-0.02
32	Benzo(a)anthracene	1.391	1.172	15.7	91	-0.03
33	Chrysene	1.520	1.448	4.7	100	-0.02
34	Bis(2-ethylhexyl)phthalate	0.990	0.903	8.8	97	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	111	-0.03
36	Indeno(1,2,3-cd)pyrene	1.444	1.272	11.9	92	-0.06
37	Benzo(b)fluoranthene	1.456	1.393	4.3	100	-0.03
38	Benzo(k)fluoranthene	1.527	1.454	4.8	100	-0.03
39 C	Benzo(a)pyrene	1.226	1.186	3.3	101	-0.03
40	Dibenzo(a,h)anthracene	1.124	0.926	17.6	89	-0.05
41	Benzo(g,h,i)perylene	1.286	1.152	10.4	93	-0.06

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 31 12:10:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	86	-0.03
2	1,4-Dioxane	0.400	0.409	-2.2	78	-0.01
3	n-Nitrosodimethylamine	0.400	0.396	1.0	81	-0.01
4 S	2-Fluorophenol	0.400	0.351	12.3	71	-0.03
5 S	Phenol-d6	0.400	0.331	17.3	72	-0.04
6	bis(2-Chloroethyl)ether	0.400	0.336	16.0	72	-0.03
7 I	Naphthalene-d8	0.400	0.400	0.0	91	-0.03
8 S	Nitrobenzene-d5	0.400	0.333	16.8	80	-0.03
9	Naphthalene	0.400	0.354	11.5	79	-0.03
10	Hexachlorobutadiene	0.400	0.354	11.5	76	-0.03
11 SURR	2-Methylnaphthalene-d10	0.400	0.361	9.8	81	-0.04
12	2-Methylnaphthalene	0.400	0.361	9.8	81	-0.03
13 I	Acenaphthene-d10	0.400	0.400	0.0	92	-0.03
14 S	2,4,6-Tribromophenol	0.400	0.355	11.3	80	-0.02
15 S	2-Fluorobiphenyl	0.400	0.340	15.0	76	-0.03
16	Acenaphthylene	0.400	0.350	12.5	79	-0.02
17	Acenaphthene	0.400	0.366	8.5	82	-0.03
18	Fluorene	0.400	0.362	9.5	79	-0.03
19 I	Phenanthrene-d10	0.400	0.400	0.0	97	-0.02
20	4,6-Dinitro-2-methylphenol	0.400	0.419	-4.7	88	-0.02
21	4-Bromophenyl-phenylether	0.400	0.355	11.3	79	-0.02
22	Hexachlorobenzene	0.400	0.361	9.8	79	-0.02
23	Atrazine	0.400	0.376	6.0	86	-0.02
24	Pentachlorophenol	0.400	0.371	7.3	90	-0.04
25	Phenanthrene	0.400	0.378	5.5	85	-0.02
26	Anthracene	0.400	0.355	11.3	81	-0.04
27 SURR	Fluoranthene-d10	0.400	0.386	3.5	86	-0.02
28	Fluoranthene	0.400	0.388	3.0	87	-0.02
29 I	Chrysene-d12	0.400	0.400	0.0	112	-0.02
30	Pyrene	0.400	0.348	13.0	89	-0.02
31 S	Terphenyl-d14	0.400	0.333	16.8	87	-0.02
32	Benzo(a)anthracene	0.400	0.337	15.8	91	-0.03
33	Chrysene	0.400	0.381	4.8	100	-0.02
34	Bis(2-ethylhexyl)phthalate	0.400	0.365	8.8	97	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	111	-0.03
36	Indeno(1,2,3-cd)pyrene	0.400	0.352	12.0	92	-0.06
37	Benzo(b)fluoranthene	0.400	0.383	4.3	100	-0.03
38	Benzo(k)fluoranthene	0.400	0.381	4.8	100	-0.03
39 C	Benzo(a)pyrene	0.400	0.387	3.3	101	-0.03
40	Dibenzo(a,h)anthracene	0.400	0.330	17.5	89	-0.05
41	Benzo(g,h,i)perylene	0.400	0.358	10.5	93	-0.06

(#) = 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.: Q1620 SAS No.: Q1620 SDG No.: Q1620

Instrument ID: BNA_N Calibration Date/Time: 03/31/2025 15:08

Lab File ID: BN036815.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:19

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.595	0.543		-8.7	50.0
Fluoranthene-d10	1.025	0.994		-3.0	50.0
2-Fluorophenol	0.932	0.839		-10.0	50.0
Phenol-d6	1.152	0.976		-15.3	50.0
Nitrobenzene-d5	0.435	0.348		-20.0	50.0
2-Fluorobiphenyl	2.327	1.957		-15.9	50.0
2,4,6-Tribromophenol	0.182	0.159		-12.6	50.0
Terphenyl-d14	0.958	0.842		-12.1	50.0
1,4-Dioxane	0.444	0.447		0.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
 Data File : BN036815.D
 Acq On : 31 Mar 2025 15:08
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 03/31/2025
 Supervised By :Jagrut Upadhyay 04/01/2025

Quant Time: Mar 31 15:30:13 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1563	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	4089	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	2524	0.400	ng	-0.03
19) Phenanthrene-d10	17.087	188	5032	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3863	0.400	ng	-0.02
35) Perylene-d12	23.525	264	3435	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.283	112	1311	0.360	ng	-0.03
5) Phenol-d6	6.865	99	1525	0.339	ng	-0.04
8) Nitrobenzene-d5	8.843	82	1424	0.320	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2219	0.365	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	402	0.351	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	4939	0.336	ng	-0.03
27) Fluoranthene-d10	19.118	212	5000	0.388	ng	-0.02
31) Terphenyl-d14	19.726	244	3254	0.352	ng	-0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.225	88	698	0.403	ng	97
3) n-Nitrosodimethylamine	3.536	42	1430	0.408	ng	93
6) bis(2-Chloroethyl)ether	7.118	93	1597	0.343	ng	98
9) Naphthalene	10.530	128	4210	0.350	ng	99
10) Hexachlorobutadiene	10.818	225	998	0.352	ng	# 99
12) 2-Methylnaphthalene	12.151	142	2722	0.356	ng	99
16) Acenaphthylene	14.056	152	4054	0.340	ng	100
17) Acenaphthene	14.398	154	2777	0.356	ng	99
18) Fluorene	15.393	166	3732	0.354	ng	99
20) 4,6-Dinitro-2-methylph...	15.478	198	396	0.454	ng	85
21) 4-Bromophenyl-phenylether	16.280	248	1144	0.363	ng	94
22) Hexachlorobenzene	16.391	284	1380	0.363	ng	95
23) Atrazine	16.553	200	954	0.377	ng	97
24) Pentachlorophenol	16.739	266	651	0.375	ng	97
25) Phenanthrene	17.124	178	5703	0.378	ng	100
26) Anthracene	17.223	178	4933	0.362	ng	99
28) Fluoranthene	19.150	202	6761	0.399	ng	98
30) Pyrene	19.513	202	6826	0.361	ng	100
32) Benzo(a)anthracene	21.268	228	4715	0.351	ng	99
33) Chrysene	21.313	228	5650	0.385	ng	100
34) Bis(2-ethylhexyl)phtha...	21.196	149	3477	0.364	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.800	276	4428	0.357	ng	94
37) Benzo(b)fluoranthene	22.850	252	4732	0.379	ng	98
38) Benzo(k)fluoranthene	22.897	252	5156m	0.393	ng	
39) Benzo(a)pyrene	23.429	252	4200	0.399	ng	97
40) Dibenzo(a,h)anthracene	25.811	278	3277	0.340	ng	97
41) Benzo(g,h,i)perylene	26.484	276	4006	0.363	ng	97

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

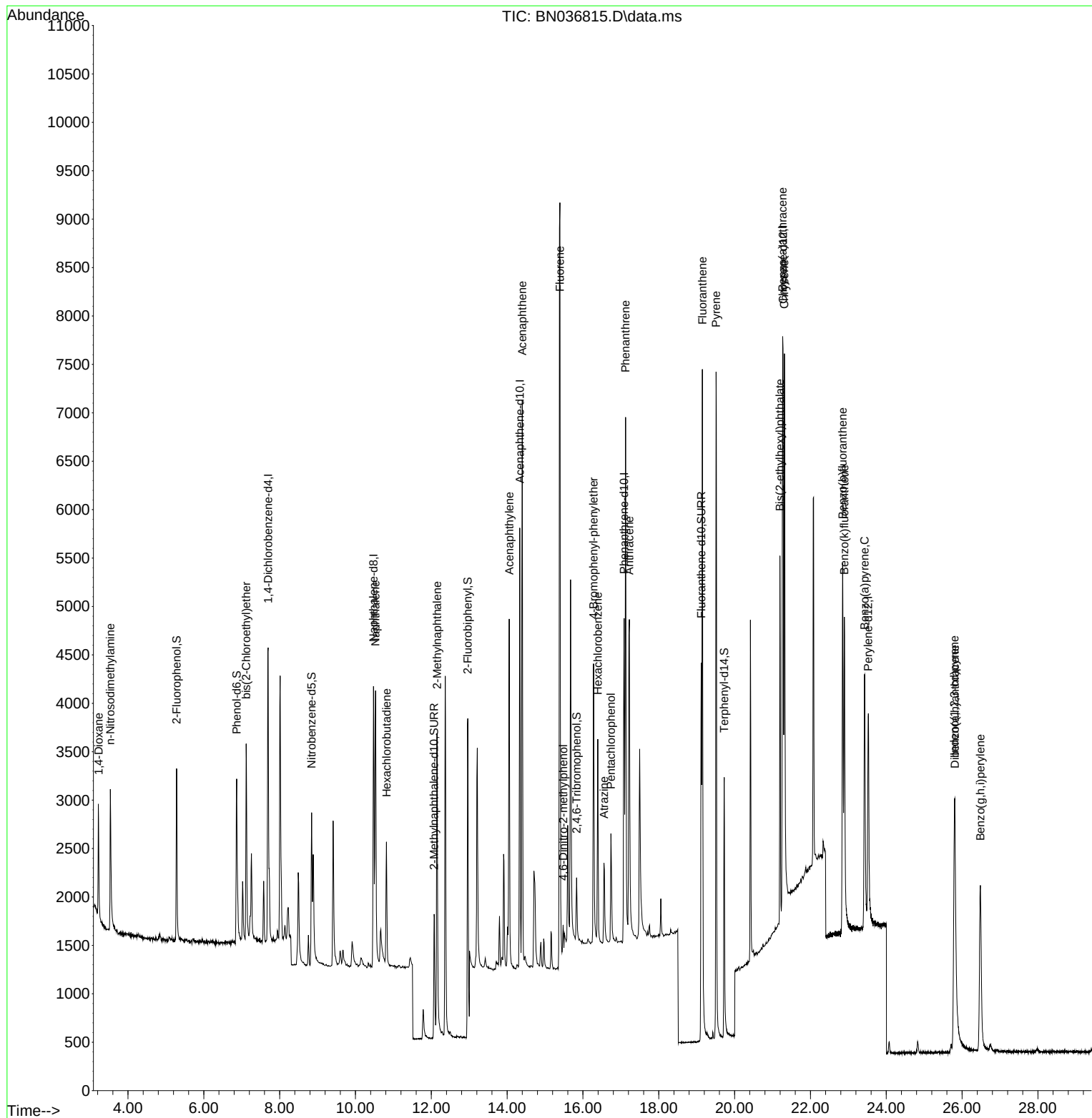
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Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

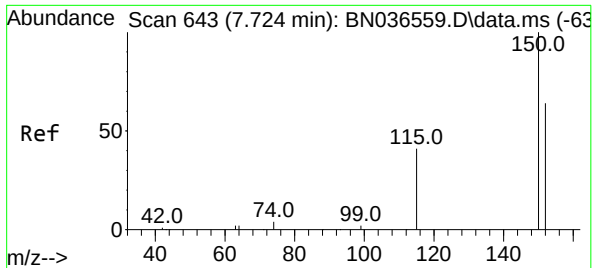
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025





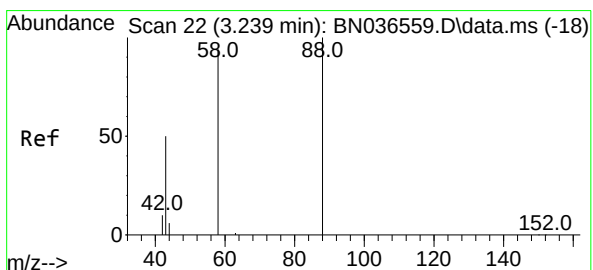
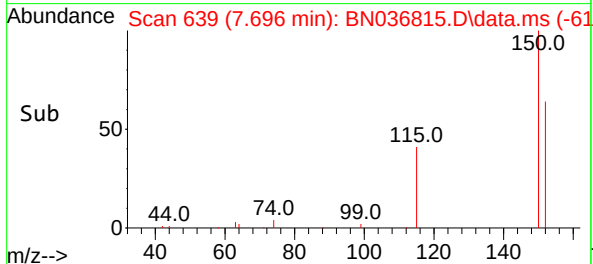
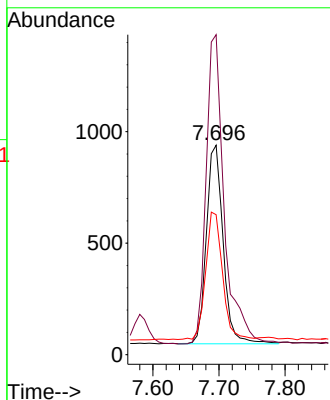
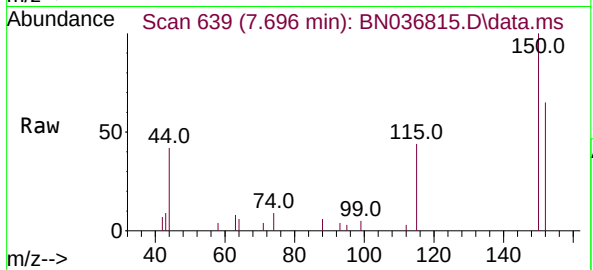
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 61
Delta R.T. -0.028 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 152 Resp: 156
Ion Ratio Lower Upper
152 100
150 152.8 123.7 185.5
115 66.9 54.3 81.5

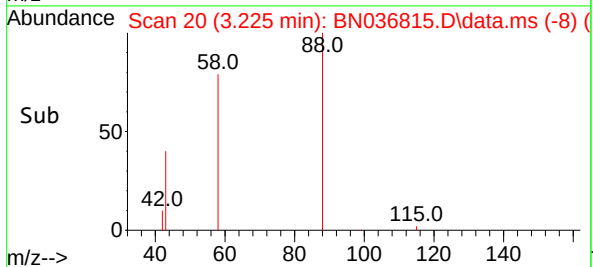
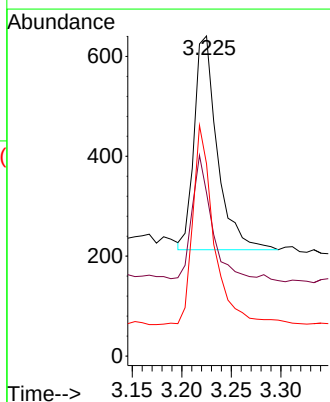
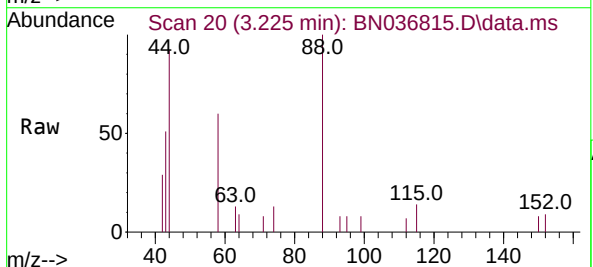
Manual Integrations
APPROVED

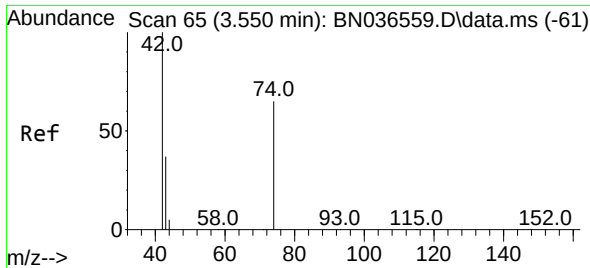
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#2
1,4-Dioxane
Concen: 0.403 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 88 Resp: 698
Ion Ratio Lower Upper
88 100
43 51.7 37.8 56.8
58 85.5 67.4 101.2





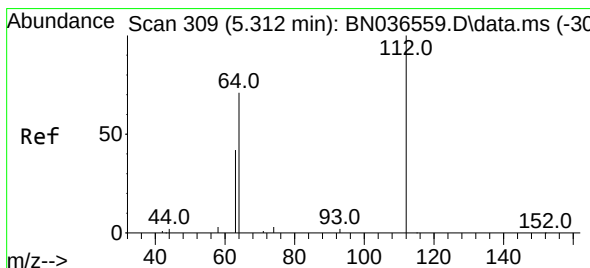
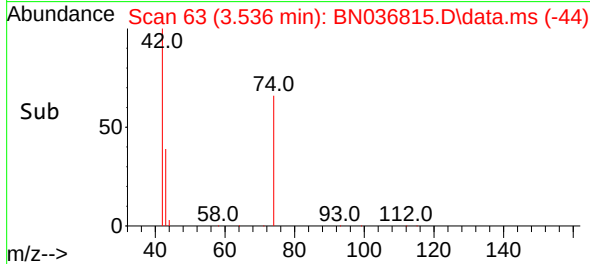
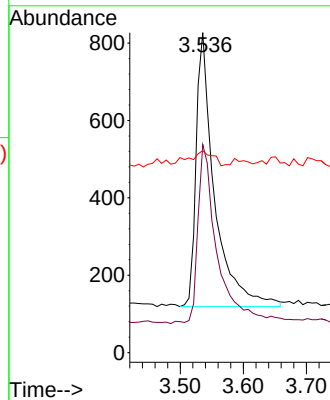
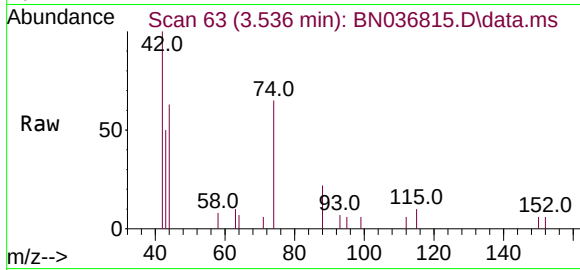
#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.536 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1430
Ion Ratio Lower Upper
42 100
74 69.3 60.6 90.8
44 6.6 6.3 9.5

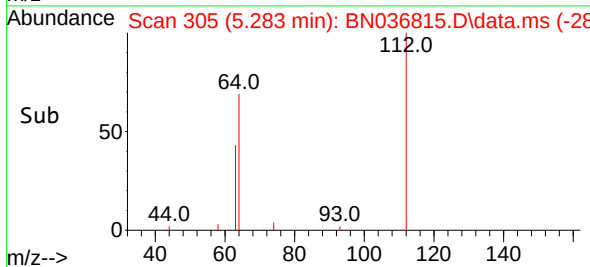
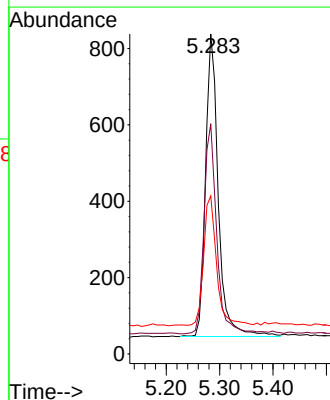
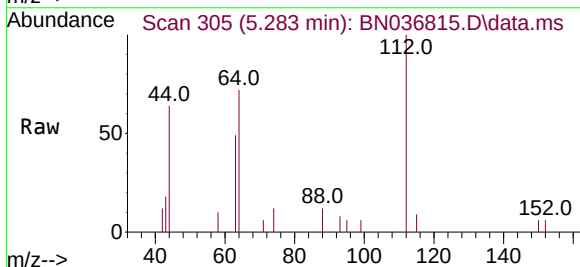
Manual Integrations
APPROVED

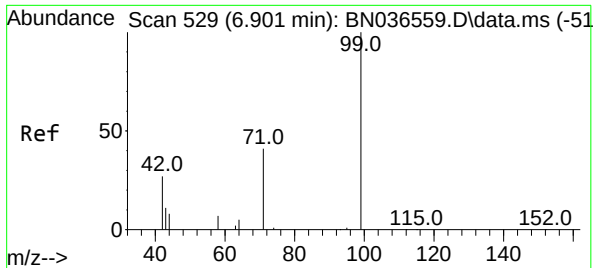
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#4
2-Fluorophenol
Concen: 0.360 ng
RT: 5.283 min Scan# 305
Delta R.T. -0.029 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:112 Resp: 1311
Ion Ratio Lower Upper
112 100
64 69.4 53.1 79.7
63 43.9 31.8 47.8





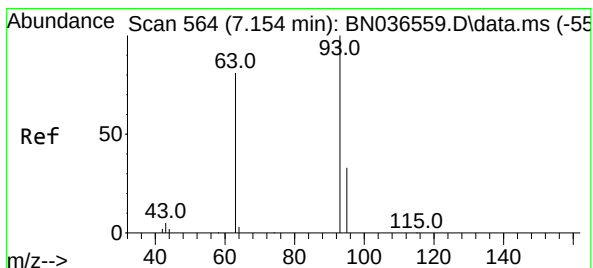
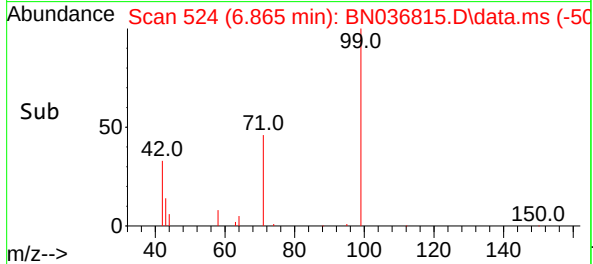
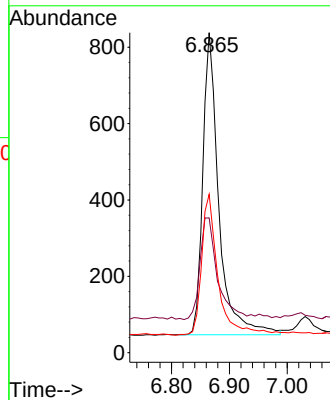
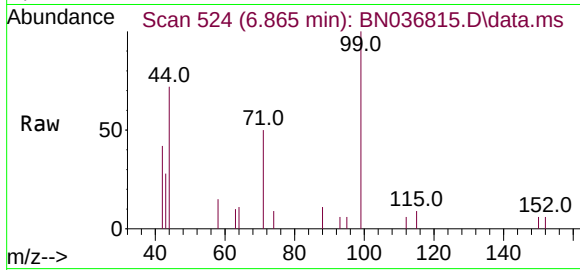
#5
Phenol-d6
Concen: 0.339 ng
RT: 6.865 min Scan# 51
Delta R.T. -0.036 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1529
Ion Ratio Lower Upper
99 100
42 37.5 26.5 39.7
71 48.4 34.1 51.1

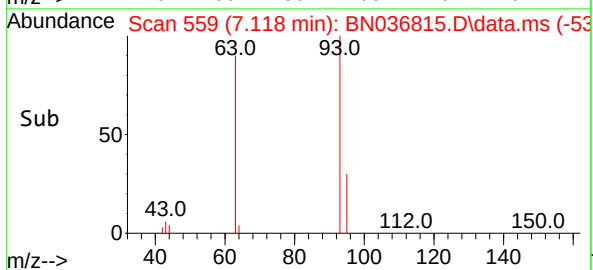
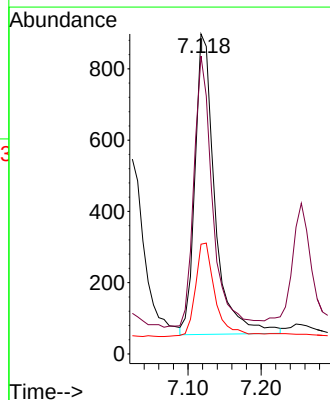
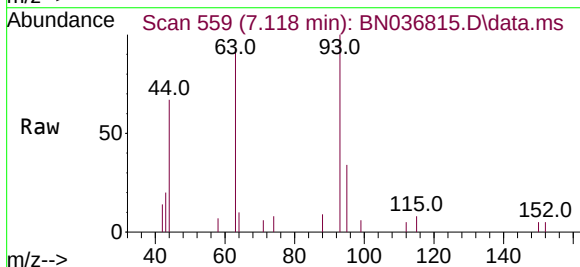
Manual Integrations
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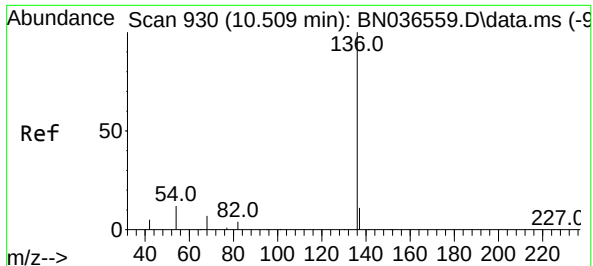
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.343 ng
RT: 7.118 min Scan# 559
Delta R.T. -0.036 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 93 Resp: 1597
Ion Ratio Lower Upper
93 100
63 82.9 67.7 101.5
95 30.6 25.6 38.4





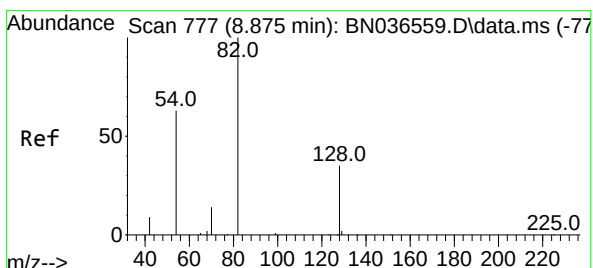
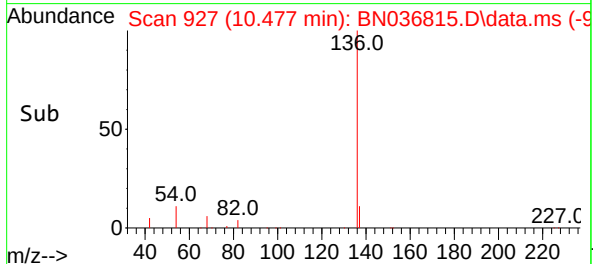
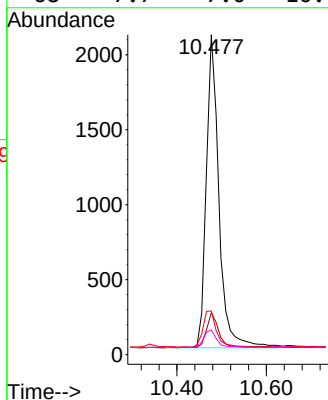
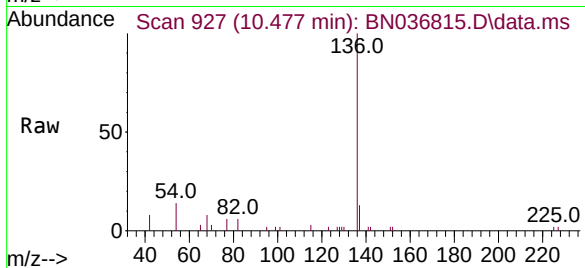
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4089
Ion Ratio Lower Upper
136 100
137 13.1 10.3 15.5
54 13.6 11.5 17.3
68 7.7 7.0 10.4

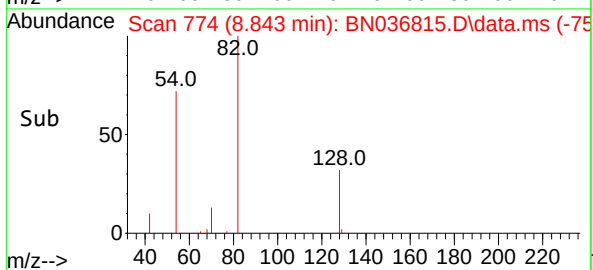
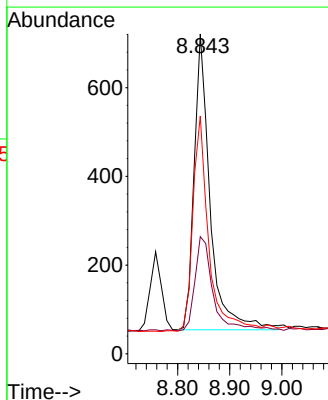
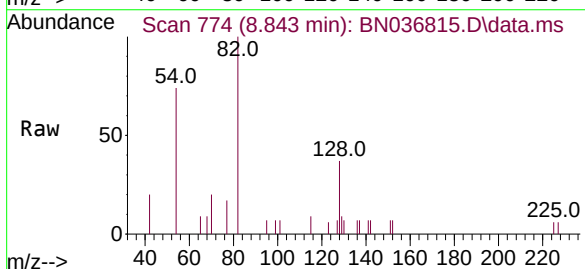
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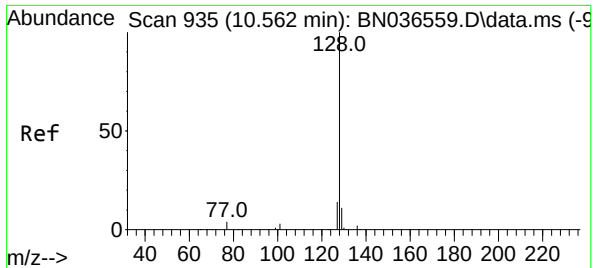
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#8
Nitrobenzene-d5
Concen: 0.320 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 82 Resp: 1424
Ion Ratio Lower Upper
82 100
128 36.6 30.6 45.8
54 74.3 52.2 78.4





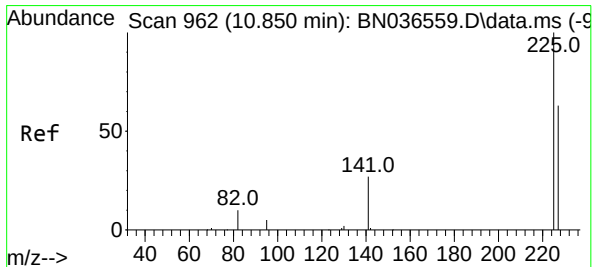
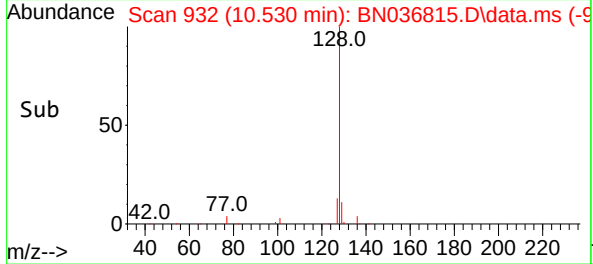
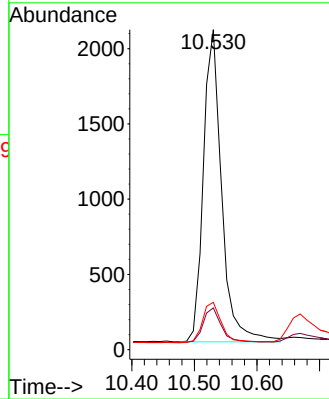
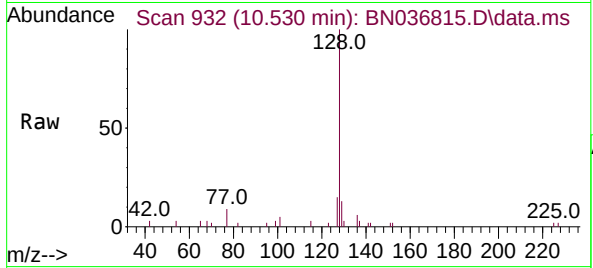
#9
Naphthalene
Concen: 0.350 ng
RT: 10.530 min Scan# 910
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 4210
Ion Ratio Lower Upper
128 100
129 13.0 9.8 14.6
127 14.8 11.8 17.8

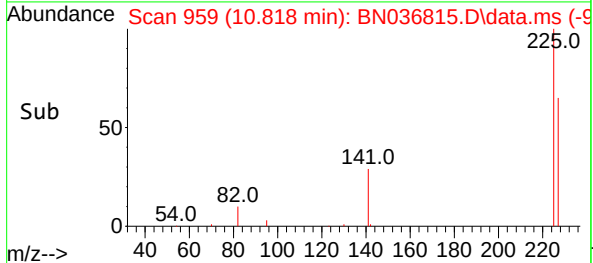
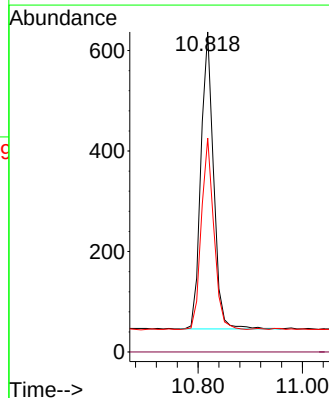
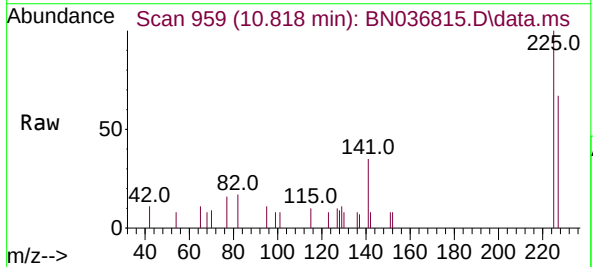
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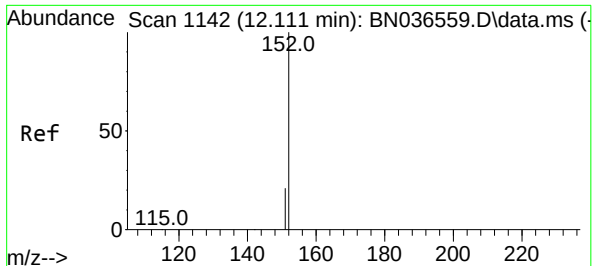
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#10
Hexachlorobutadiene
Concen: 0.352 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

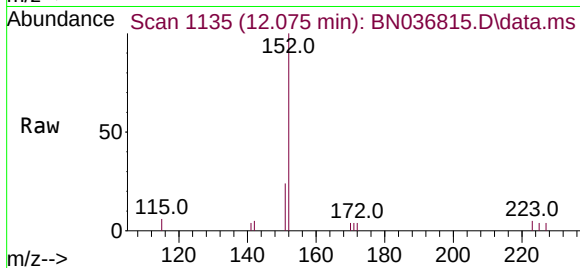
Tgt Ion:225 Resp: 998
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.8 77.8





#11
2-Methylnaphthalene-d10
Concen: 0.365 ng
RT: 12.075 min Scan# 1142
Delta R.T. -0.035 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

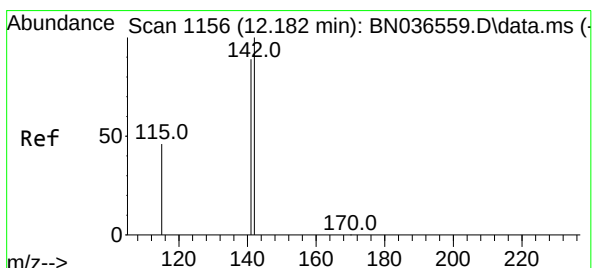
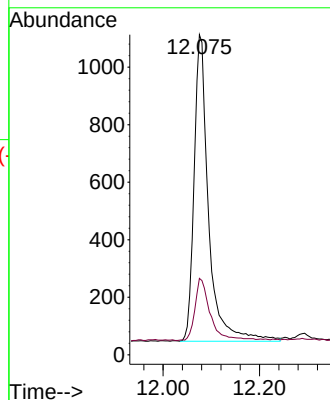
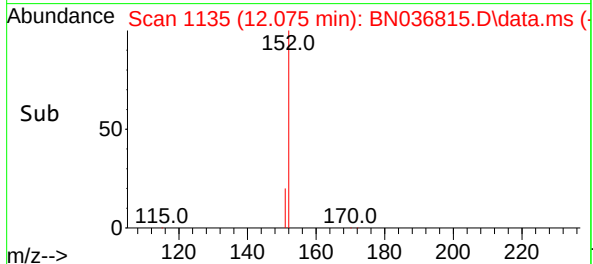
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 2219
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6

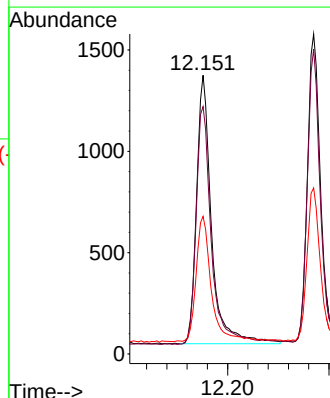
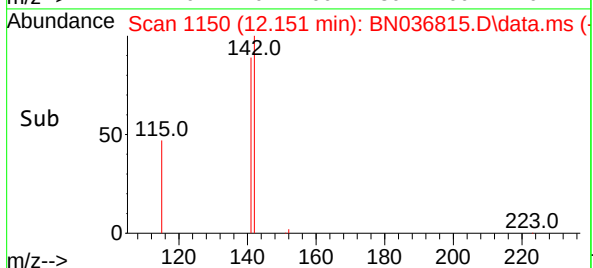
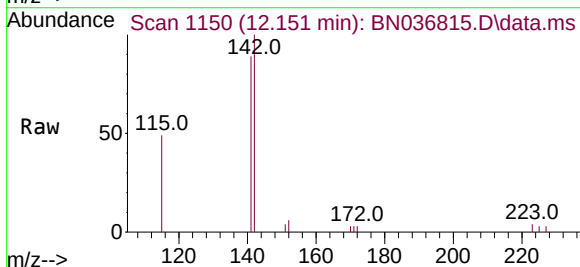
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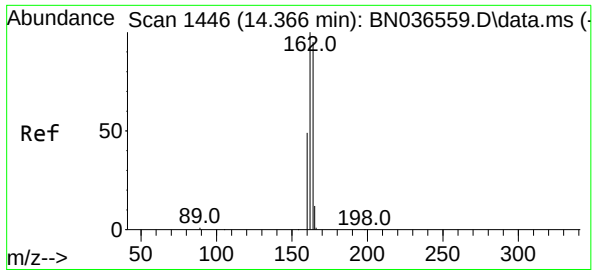
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#12
2-Methylnaphthalene
Concen: 0.356 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

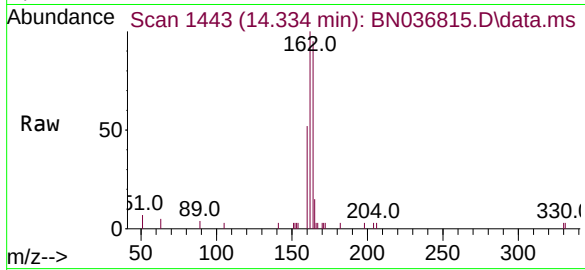
Tgt Ion:142 Resp: 2722
Ion Ratio Lower Upper
142 100
141 88.8 71.7 107.5
115 49.4 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

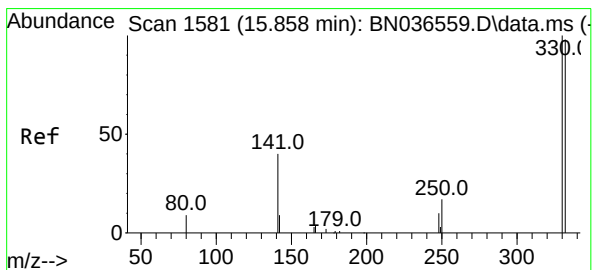
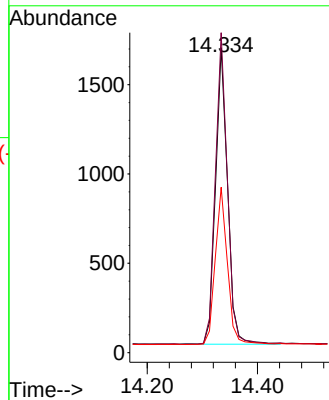
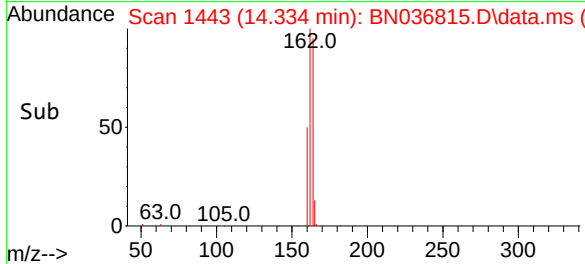
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



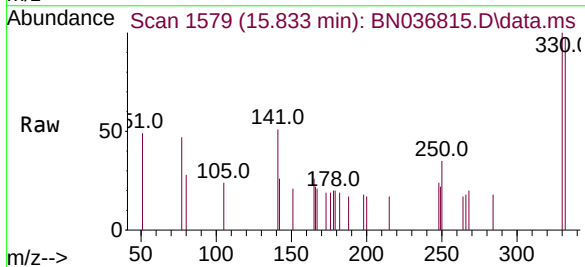
Tgt Ion:164 Resp: 2524
Ion Ratio Lower Upper
164 100
162 104.9 84.2 126.2
160 54.2 42.2 63.2

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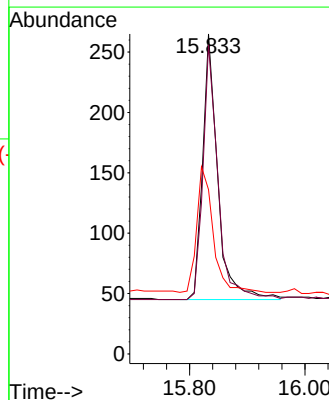
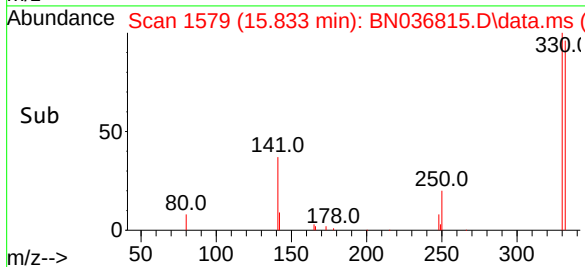
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

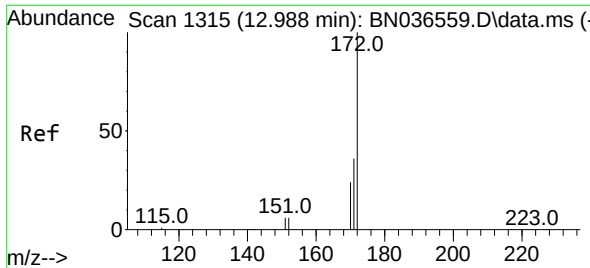


#14
2,4,6-Tribromophenol
Concen: 0.351 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08



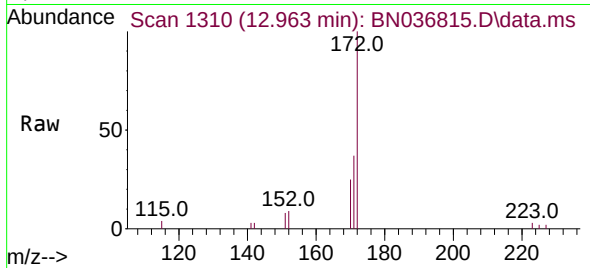
Tgt Ion:330 Resp: 402
Ion Ratio Lower Upper
330 100
332 94.8 75.2 112.8
141 51.0 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.963 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

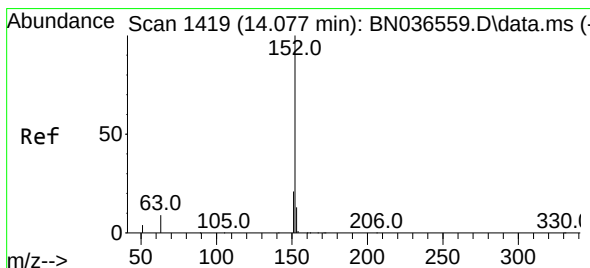
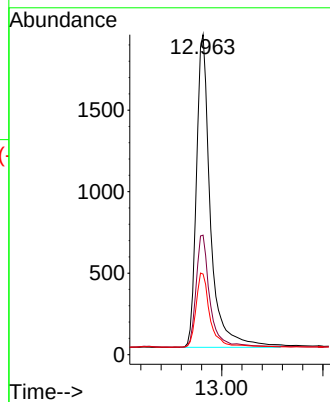
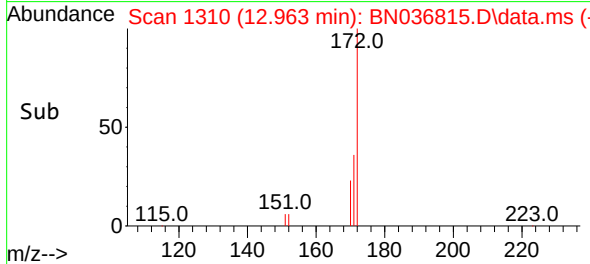
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:172 Resp: 4939
Ion Ratio Lower Upper
172 100
171 37.3 29.5 44.3
170 25.2 20.2 30.4

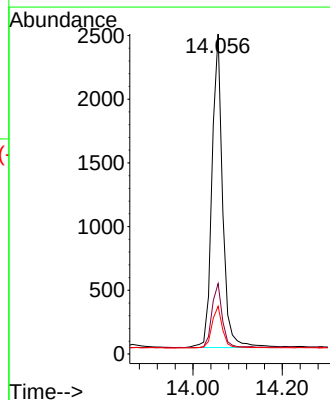
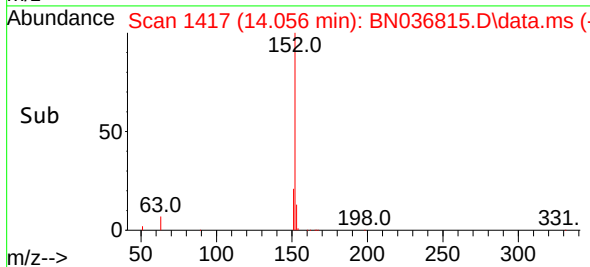
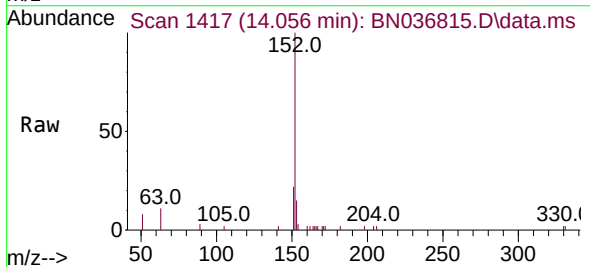
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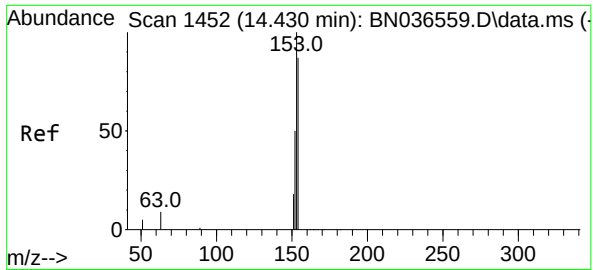
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#16
Acenaphthylene
Concen: 0.340 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

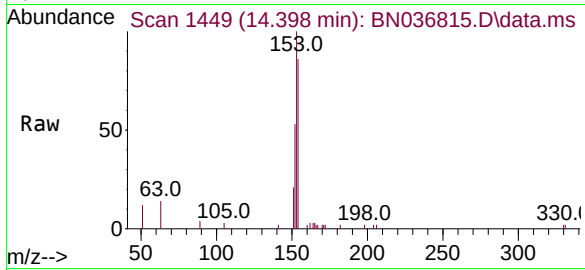
Tgt Ion:152 Resp: 4054
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.4
153 13.5 10.6 15.8





#17
Acenaphthene
Concen: 0.356 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

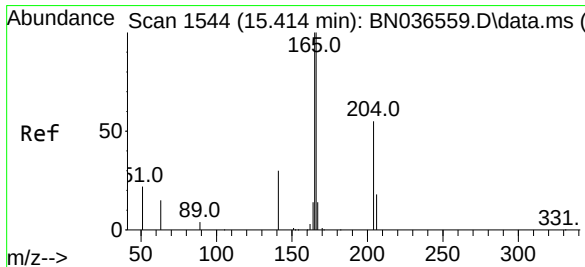
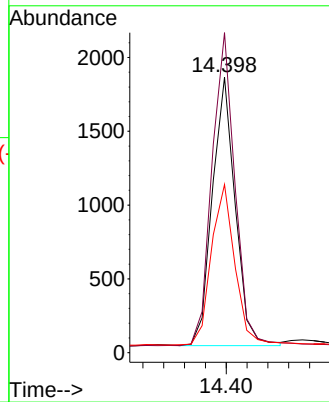
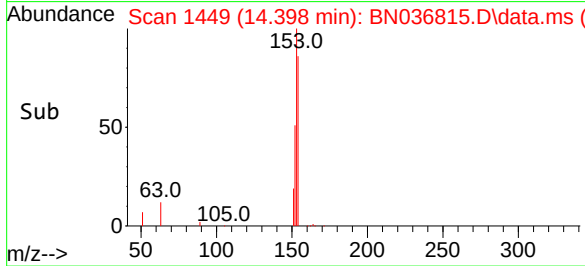
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 277
Ion Ratio Lower Upper
154 100
153 118.7 94.1 141.1
152 62.5 49.8 74.6

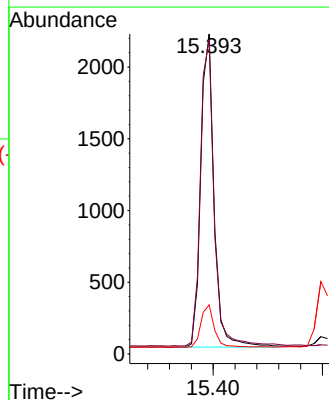
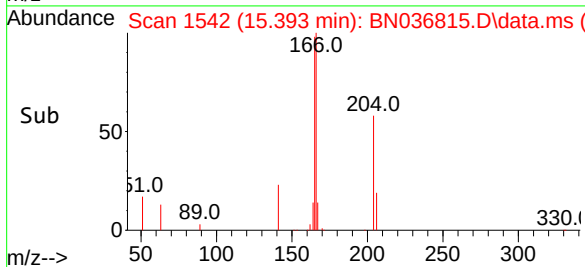
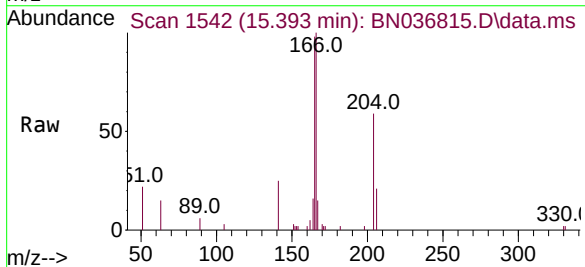
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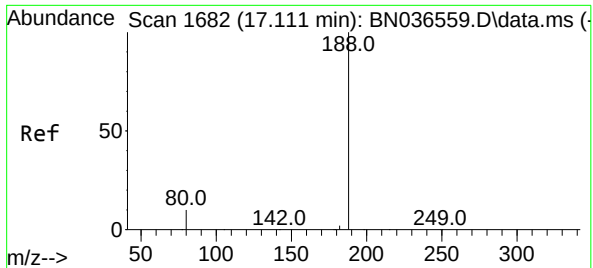
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#18
Fluorene
Concen: 0.354 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:166 Resp: 3732
Ion Ratio Lower Upper
166 100
165 100.8 79.8 119.8
167 13.4 10.6 15.8





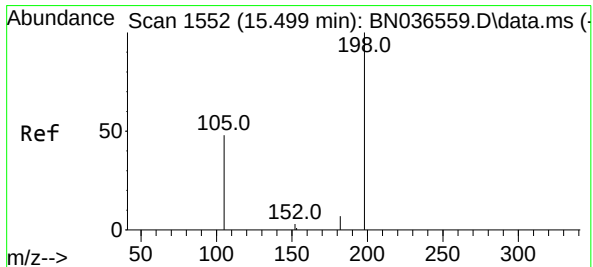
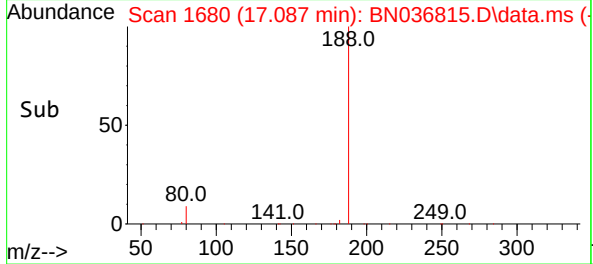
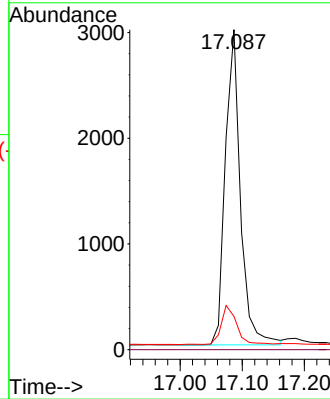
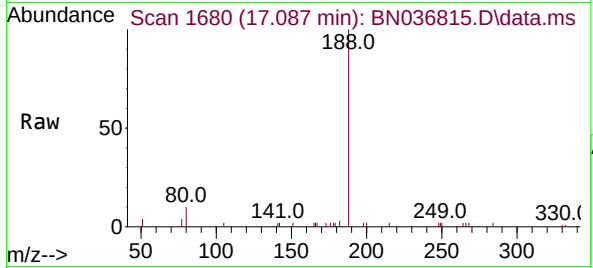
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 503
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.4 8.8 13.2

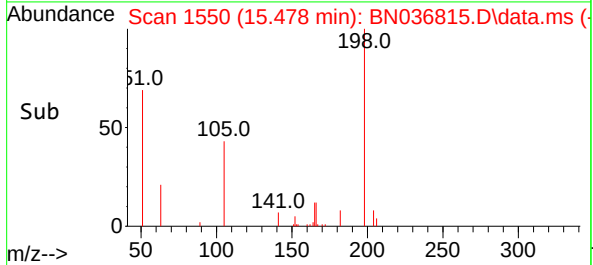
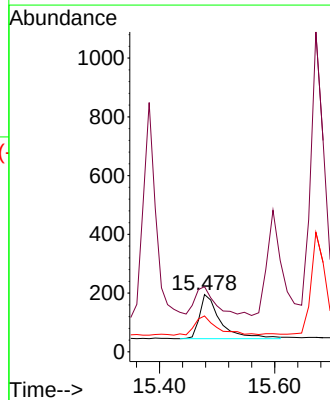
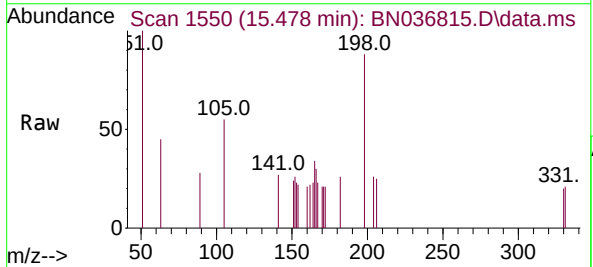
Manual Integrations
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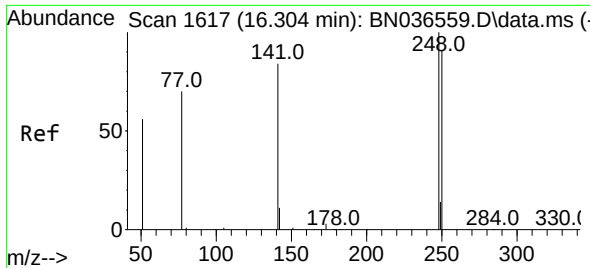
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.454 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

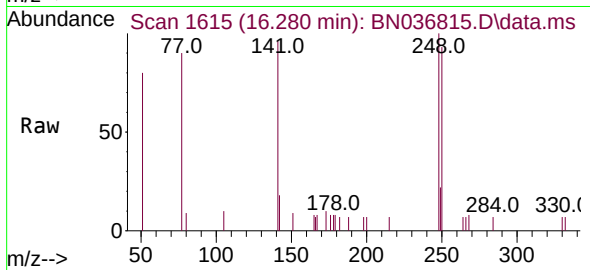
Tgt Ion:198 Resp: 396
Ion Ratio Lower Upper
198 100
51 113.8 107.9 161.9
105 62.6 56.2 84.2





#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

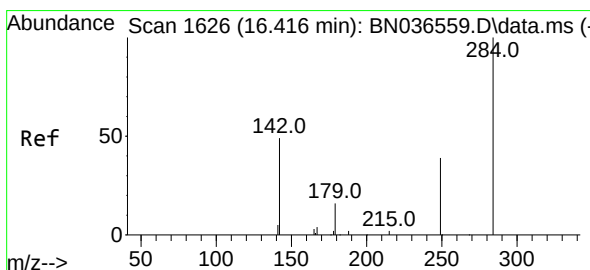
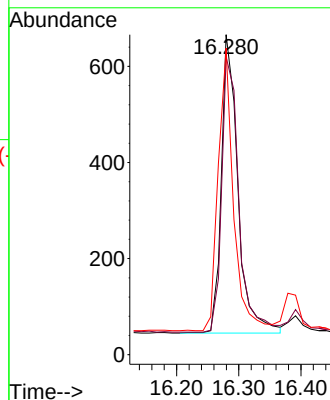
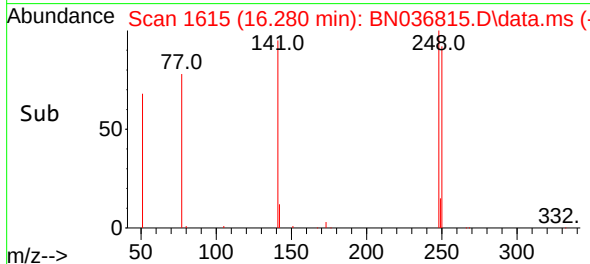
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:248 Resp: 1144
Ion Ratio Lower Upper
248 100
250 93.1 73.0 109.6
141 95.8 68.6 103.0

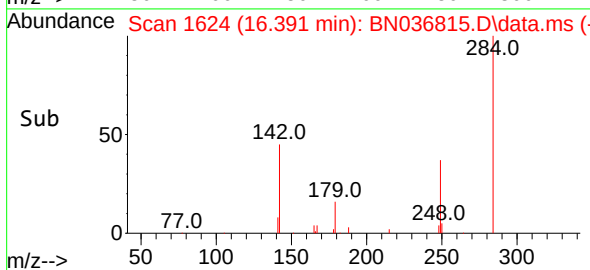
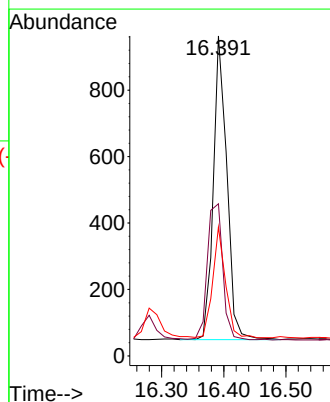
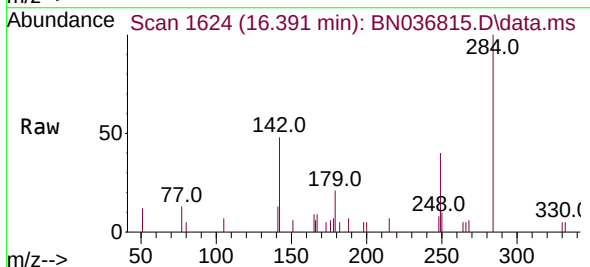
Manual Integrations
APPROVED

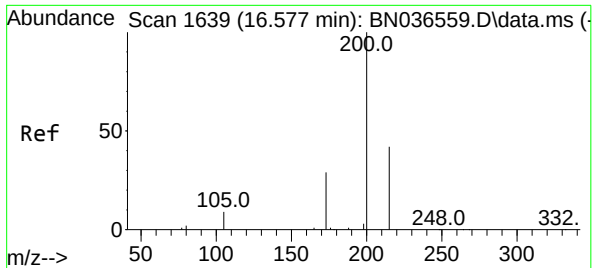
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#22
Hexachlorobenzene
Concen: 0.363 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

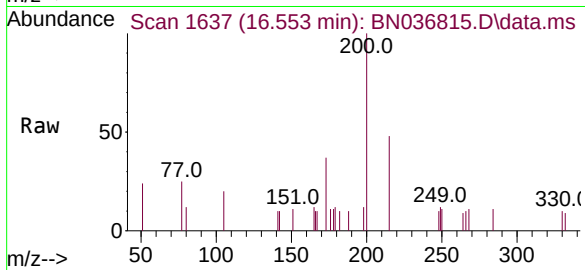
Tgt Ion:284 Resp: 1380
Ion Ratio Lower Upper
284 100
142 51.9 37.0 55.4
249 34.7 28.1 42.1





#23
Atrazine
Concen: 0.377 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

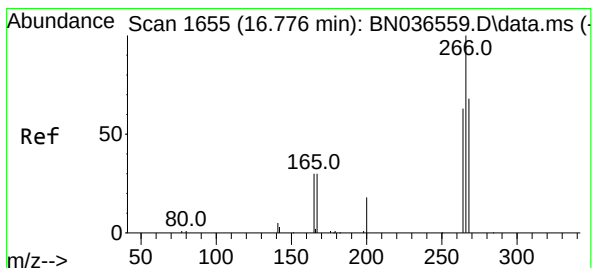
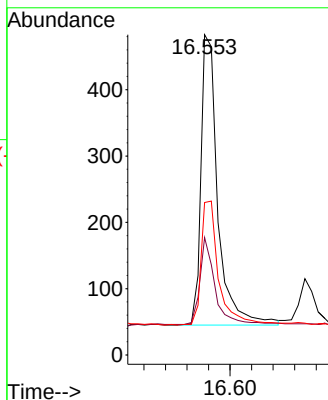
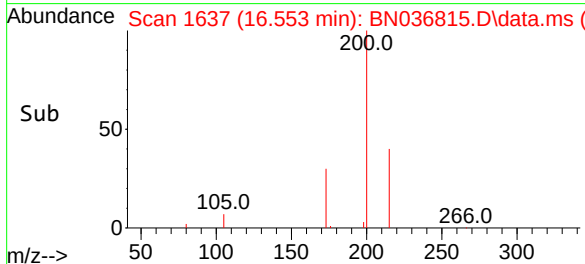
Instrument :
BNA_N
ClientSampleId :
SSTDC00.4EC



Tgt Ion:200 Resp: 954
Ion Ratio Lower Upper
200 100
173 36.6 27.3 40.9
215 47.6 36.8 55.2

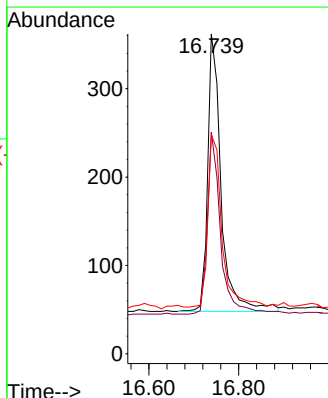
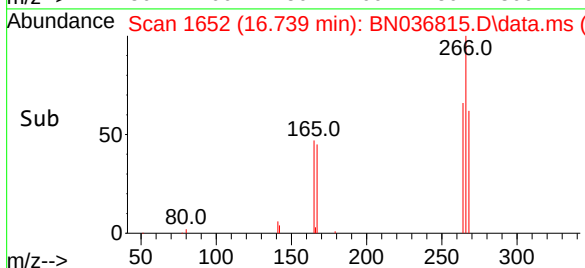
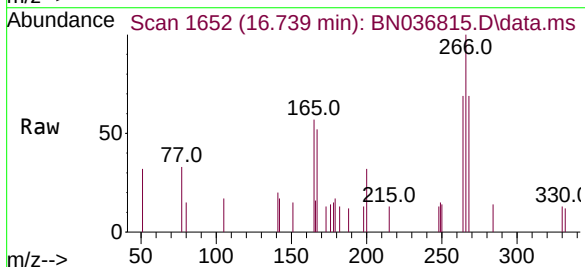
Manual Integrations
APPROVED

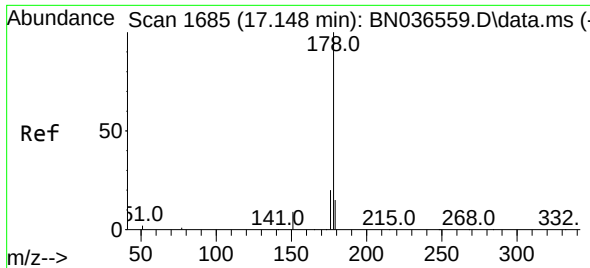
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#24
Pentachlorophenol
Concen: 0.375 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:266 Resp: 651
Ion Ratio Lower Upper
266 100
264 64.8 49.6 74.4
268 65.4 50.9 76.3





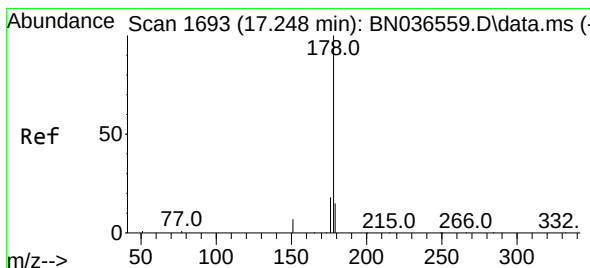
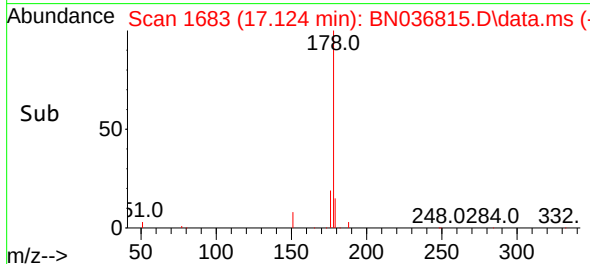
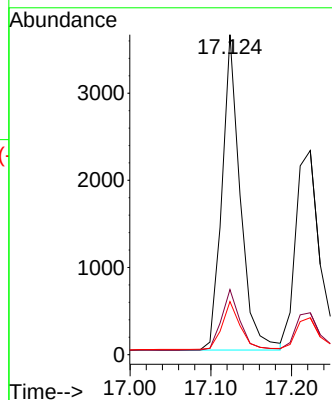
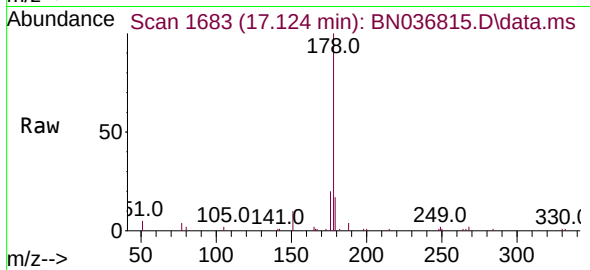
#25
Phenanthrene
Concen: 0.378 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 570
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 15.7 12.2 18.4

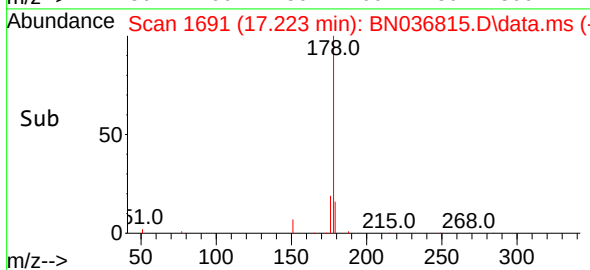
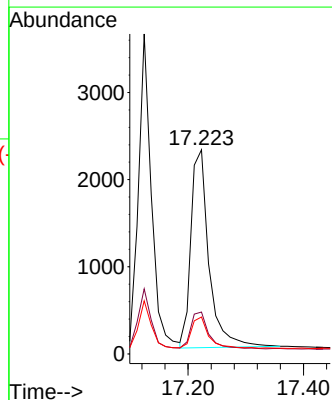
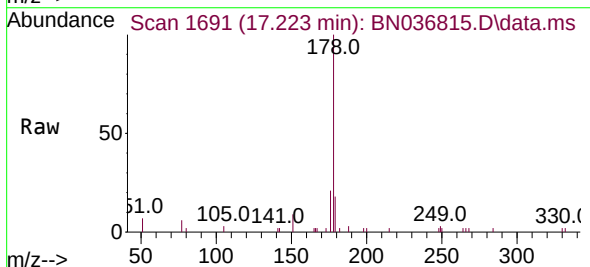
Manual Integrations
APPROVED

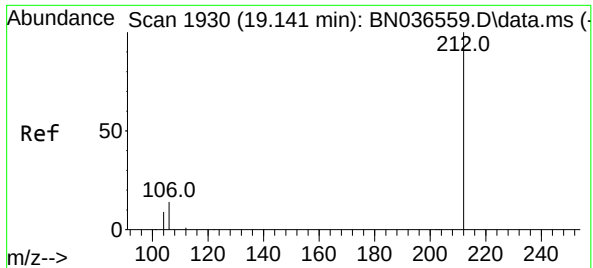
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#26
Anthracene
Concen: 0.362 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

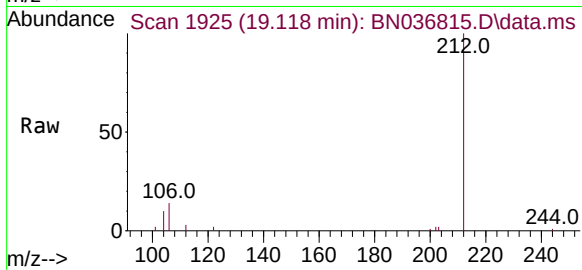
Tgt Ion:178 Resp: 4933
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.6 12.6 18.8





#27
Fluoranthene-d10
Concen: 0.388 ng
RT: 19.118 min Scan# 1930
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

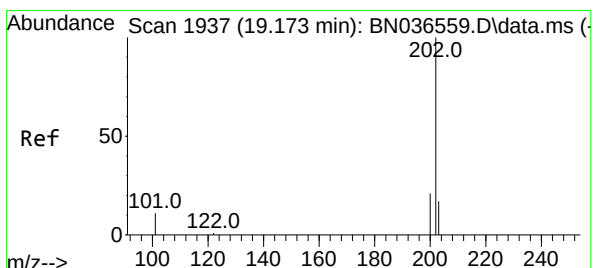
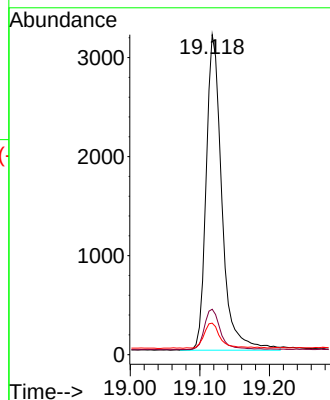
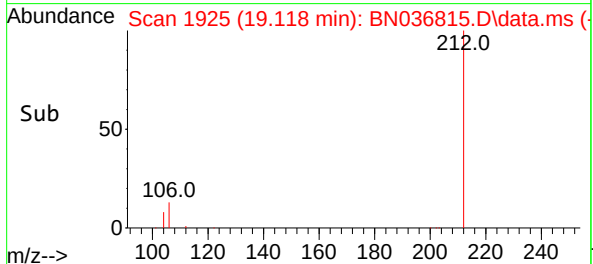
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:212 Resp: 5000
Ion Ratio Lower Upper
212 100
106 13.2 11.8 17.6
104 8.4 7.3 10.9

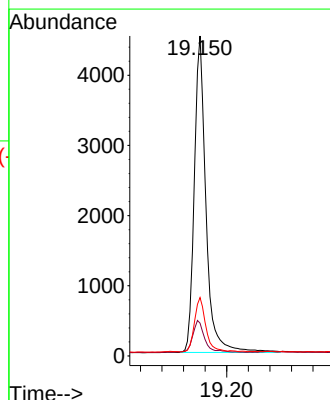
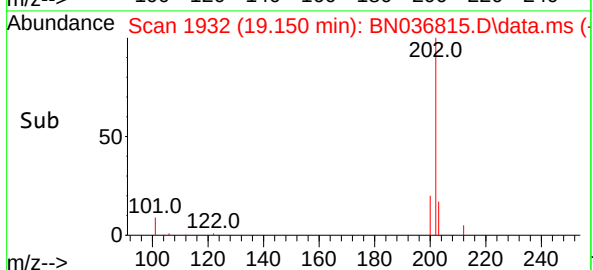
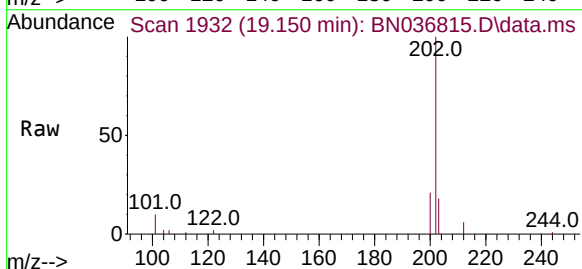
Manual Integrations
APPROVED

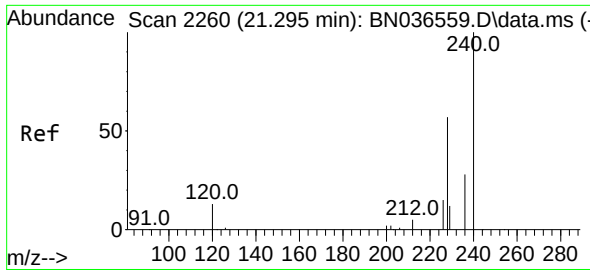
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#28
Fluoranthene
Concen: 0.399 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

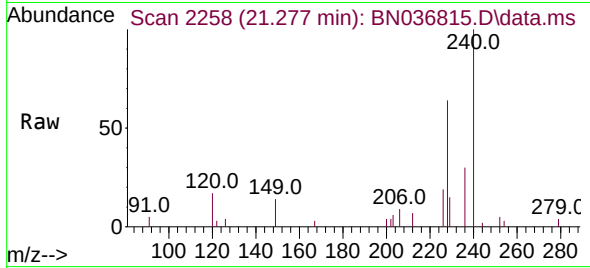
Tgt Ion:202 Resp: 6761
Ion Ratio Lower Upper
202 100
101 10.4 9.4 14.0
203 16.5 13.5 20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

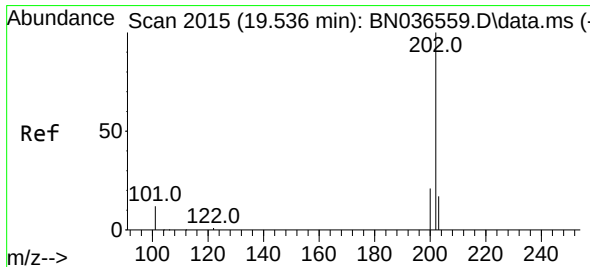
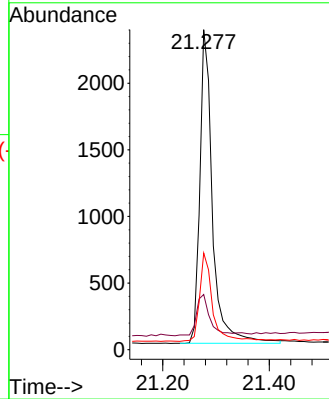
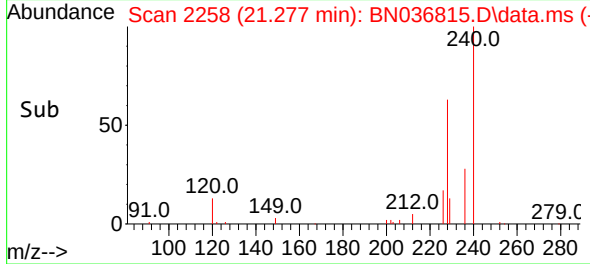
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



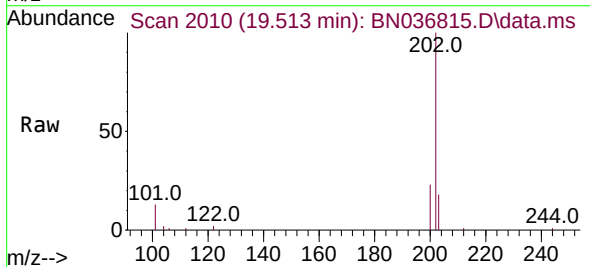
Tgt Ion:240 Resp: 386
Ion Ratio Lower Upper
240 100
120 17.3 14.6 22.0
236 30.2 24.1 36.1

Manual Integrations
APPROVED

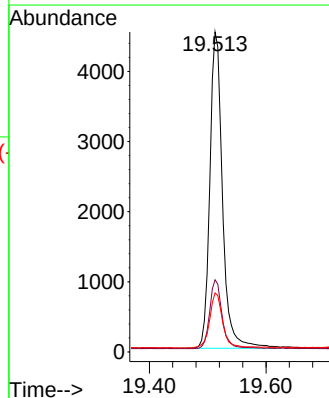
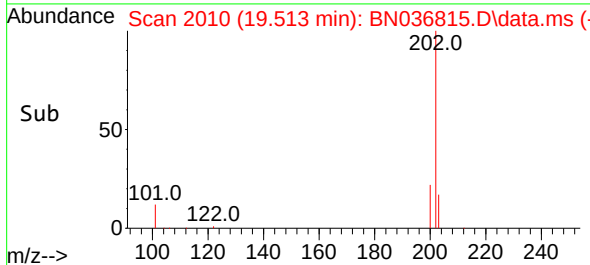
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

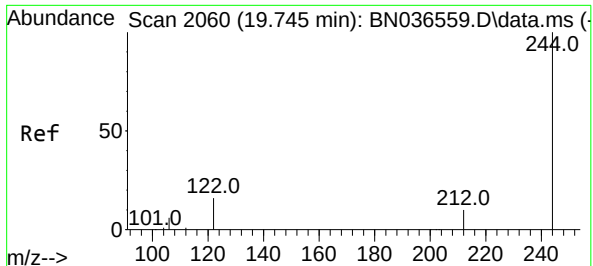


#30
Pyrene
Concen: 0.361 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08



Tgt Ion:202 Resp: 6826
Ion Ratio Lower Upper
202 100
200 21.6 17.1 25.7
203 17.8 14.1 21.1





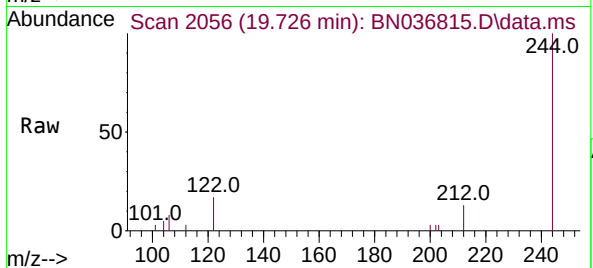
#31
Terphenyl-d14
Concen: 0.352 ng
RT: 19.726 min Scan# 2056
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



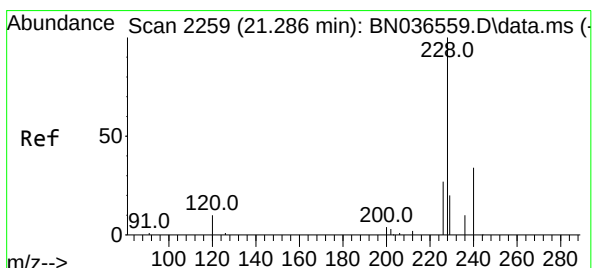
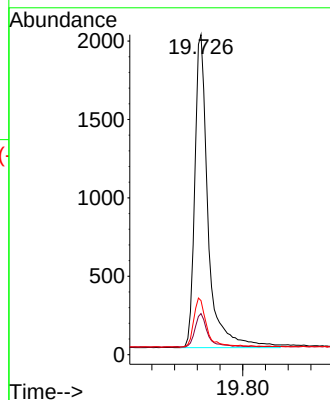
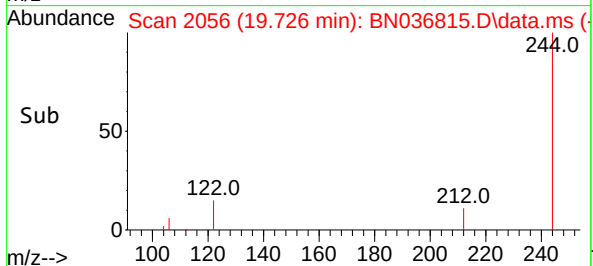
Tgt Ion:244 Resp: 3254
Ion Ratio Lower Upper
244 100
212 12.9 9.6 14.4
122 16.9 13.9 20.9

Manual Integrations

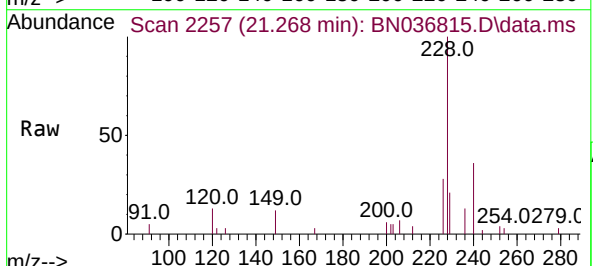
APPROVED

Reviewed By :Rahul Chavli 03/31/2025

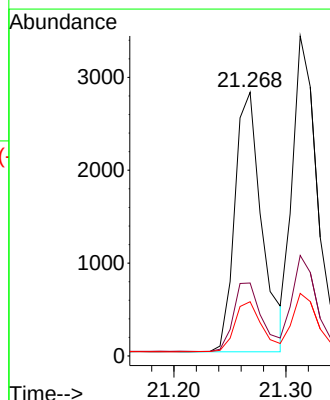
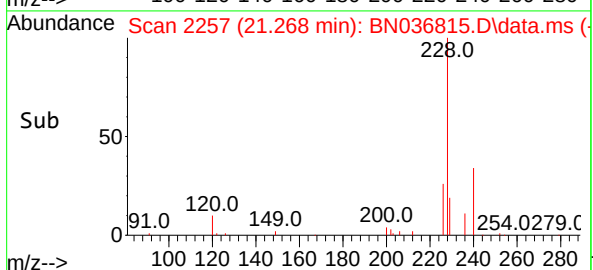
Supervised By :Jagrut Upadhyay 04/01/2025

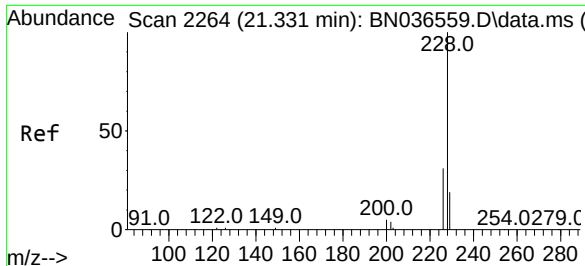


#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08



Tgt Ion:228 Resp: 4715
Ion Ratio Lower Upper
228 100
226 27.7 22.5 33.7
229 20.6 16.6 25.0





#33

Chrysene

Concen: 0.385 ng

RT: 21.313 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036815.D

Acq: 31 Mar 2025 15:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

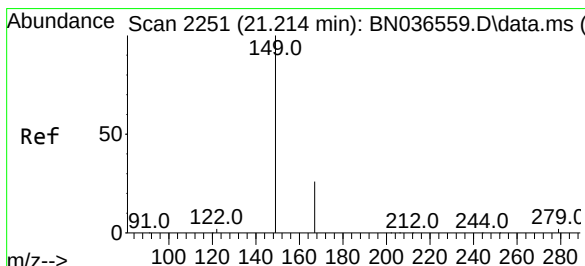
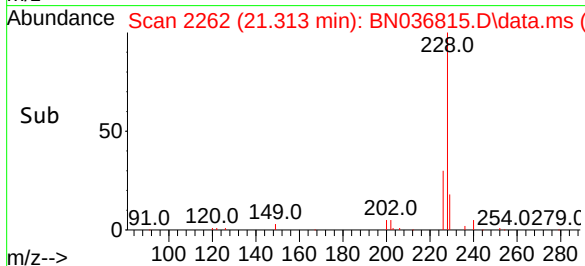
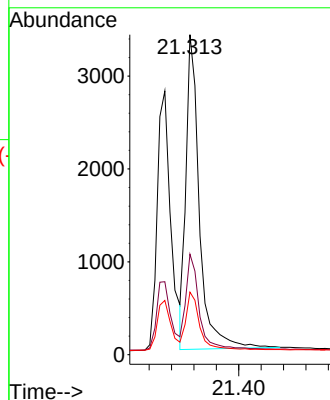
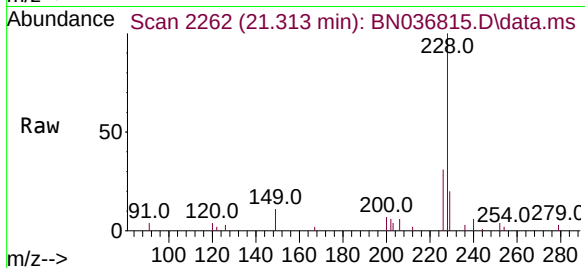
Tgt Ion:	228	Resp:	5650
Ion Ratio	Lower	Upper	
228	100		
226	31.4	25.3	37.9
229	19.6	15.8	23.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.364 ng

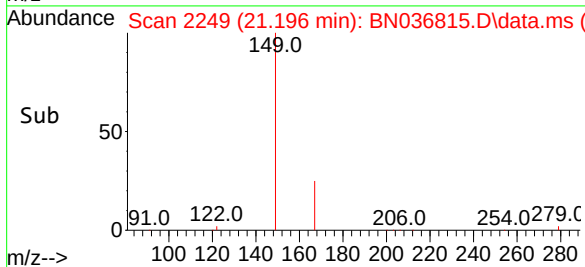
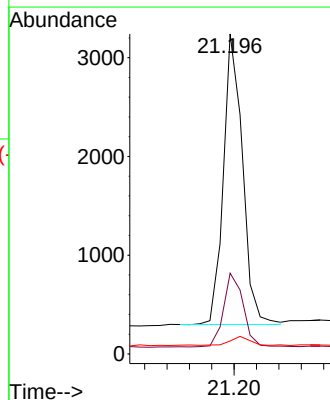
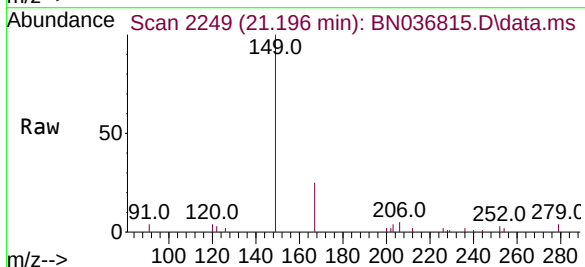
RT: 21.196 min Scan# 2249

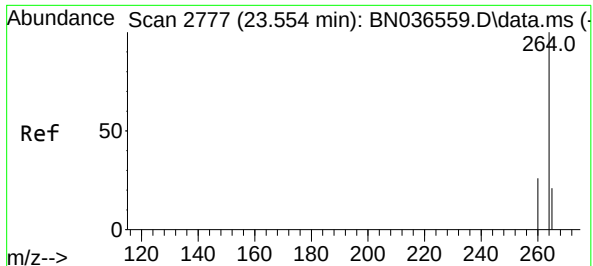
Delta R.T. -0.018 min

Lab File: BN036815.D

Acq: 31 Mar 2025 15:08

Tgt Ion:	149	Resp:	3477
Ion Ratio	Lower	Upper	
149	100		
167	26.4	20.7	31.1
279	3.1	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.525 min Scan# 21

Delta R.T. -0.029 min

Lab File: BN036815.D

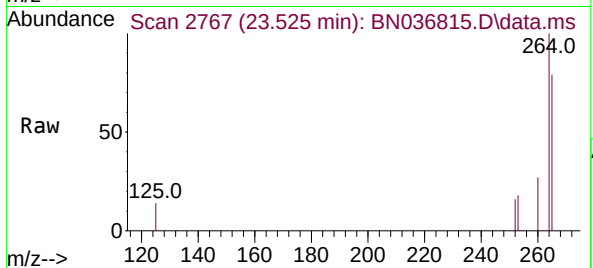
Acq: 31 Mar 2025 15:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:264 Resp: 343

Ion Ratio Lower Upper

264 100

260 26.9 22.6 33.8

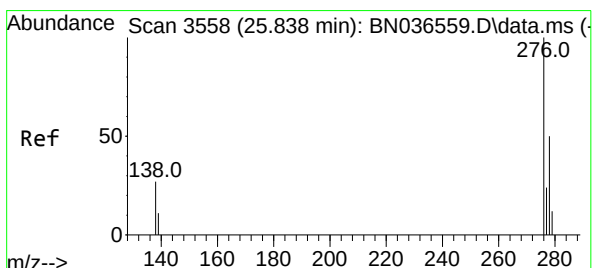
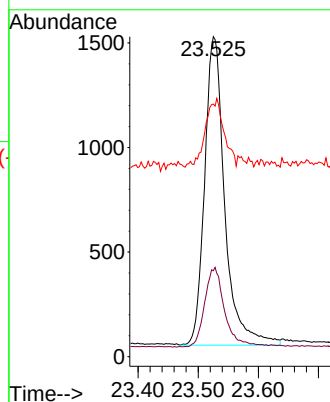
265 79.0 88.1 132.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.357 ng

RT: 25.800 min Scan# 3545

Delta R.T. -0.038 min

Lab File: BN036815.D

Acq: 31 Mar 2025 15:08

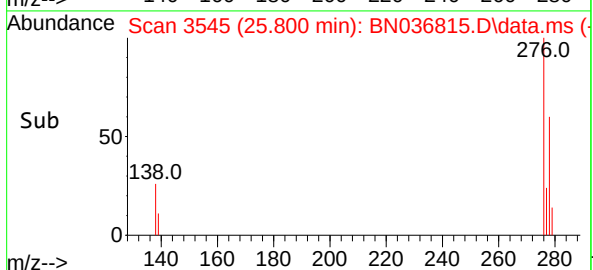
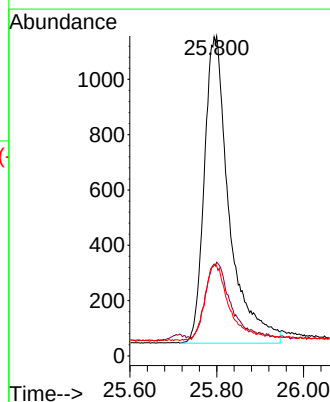
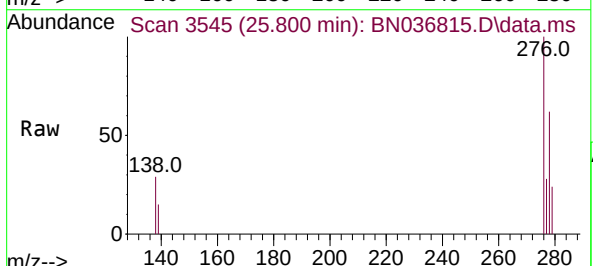
Tgt Ion:276 Resp: 4428

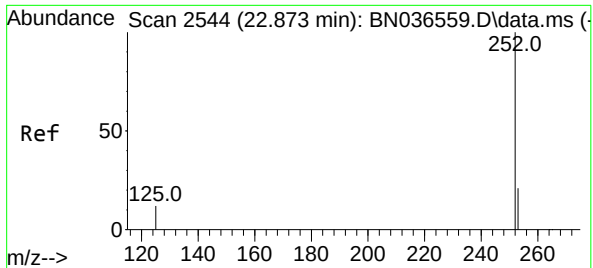
Ion Ratio Lower Upper

276 100

138 24.1 23.4 35.2

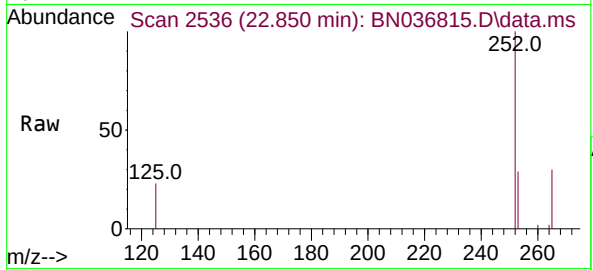
277 23.9 20.0 30.0





#37
Benzo(b)fluoranthene
Concen: 0.379 ng
RT: 22.850 min Scan# 2536
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

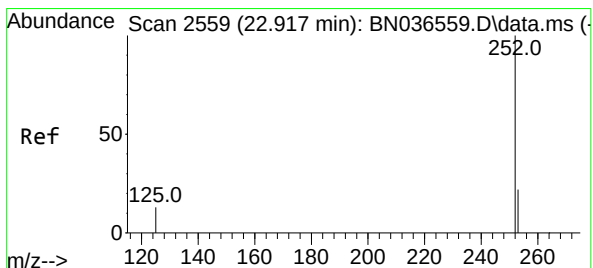
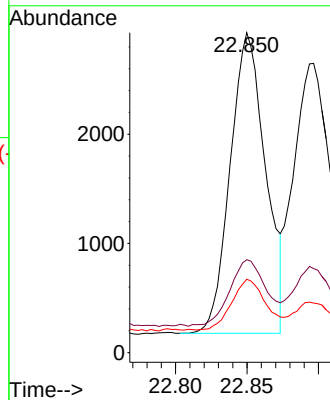
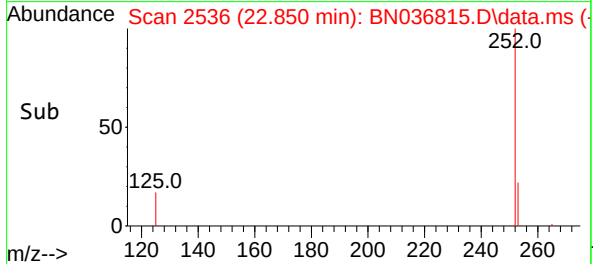
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



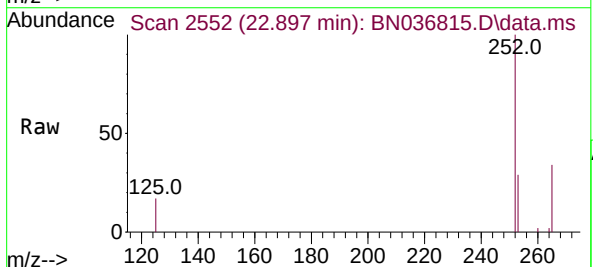
Tgt Ion:252 Resp: 473
Ion Ratio Lower Upper
252 100
253 29.0 23.9 35.9
125 22.9 17.4 26.2

Manual Integrations
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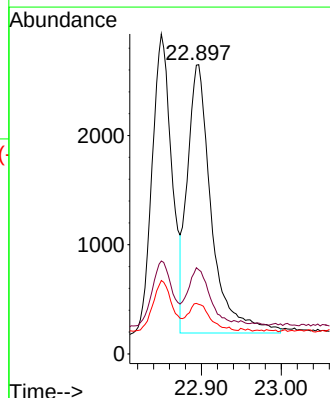
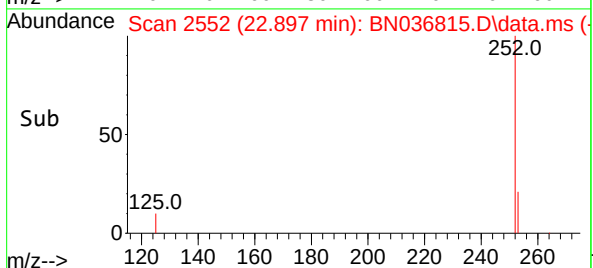
Reviewed By :Rahul Chavli 03/31/2025
Supervised By :Jagrut Upadhyay 04/01/2025

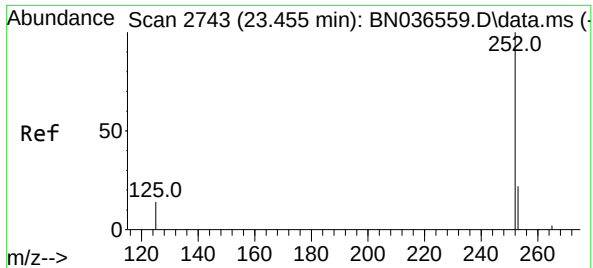


#38
Benzo(k)fluoranthene
Concen: 0.393 ng m
RT: 22.897 min Scan# 2552
Delta R.T. -0.020 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08



Tgt Ion:252 Resp: 5156
Ion Ratio Lower Upper
252 100
253 29.1 24.6 36.8
125 17.1 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.399 ng

RT: 23.429 min Scan# 21

Delta R.T. -0.026 min

Lab File: BN036815.D

Acq: 31 Mar 2025 15:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

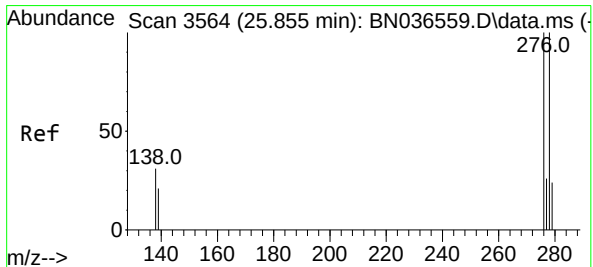
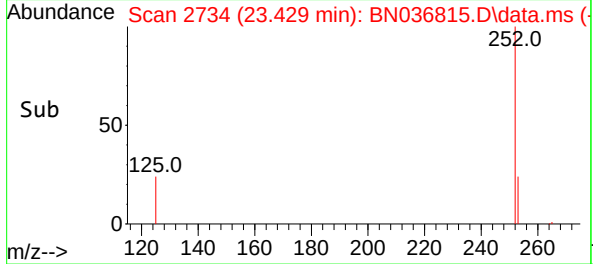
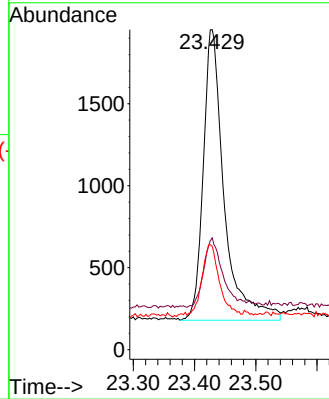
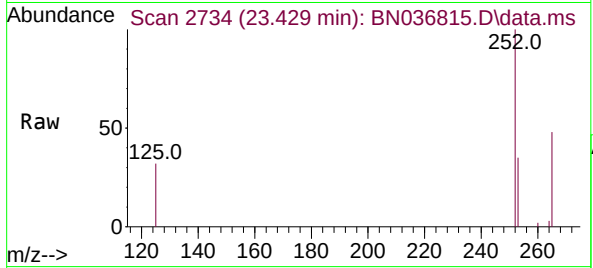
Tgt Ion:	252	Resp:	4200
Ion Ratio	Lower	Upper	
252	100		
253	34.9	27.8	41.8
125	32.3	22.7	34.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.340 ng

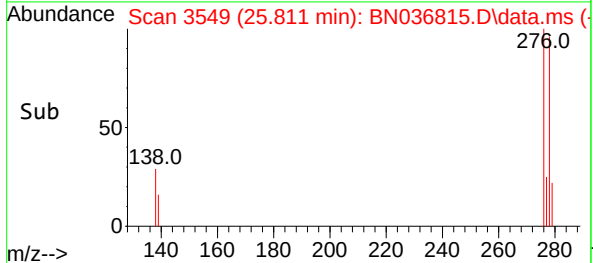
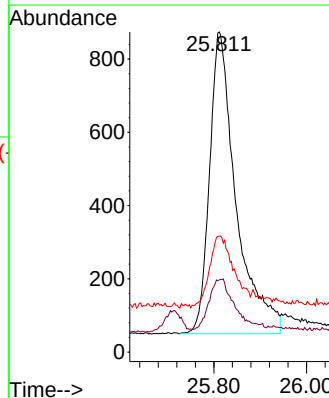
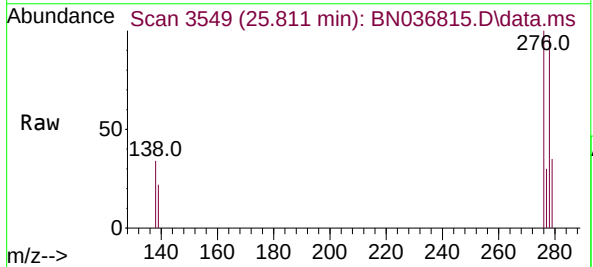
RT: 25.811 min Scan# 3549

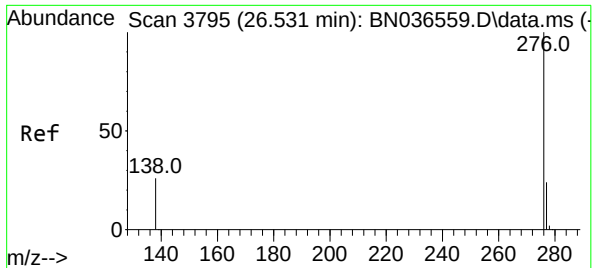
Delta R.T. -0.044 min

Lab File: BN036815.D

Acq: 31 Mar 2025 15:08

Tgt Ion:	278	Resp:	3277
Ion Ratio	Lower	Upper	
278	100		
139	22.5	20.8	31.2
279	36.2	28.8	43.2





#41

Benzo(g,h,i)perylene

Concen: 0.363 ng

RT: 26.484 min Scan# 31

Delta R.T. -0.047 min

Lab File: BN036815.D

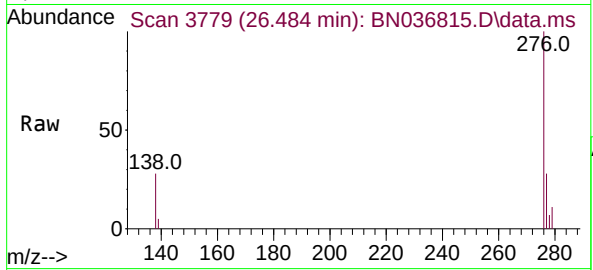
Acq: 31 Mar 2025 15:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 4000

Ion Ratio Lower Upper

276 100

277 27.7 22.2 33.4

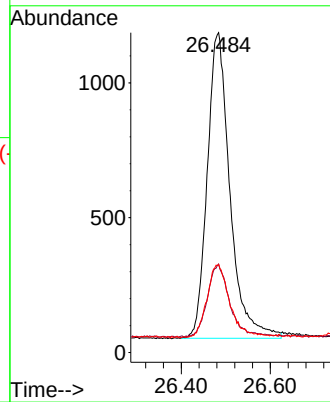
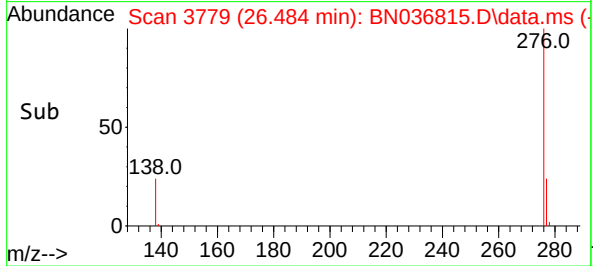
138 27.6 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 03/31/2025

Supervised By :Jagrut Upadhyay 04/01/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	-0.03
2	1,4-Dioxane	0.444	0.447	-0.7	64	-0.01
3	n-Nitrosodimethylamine	0.898	0.915	-1.9	69	-0.01
4 S	2-Fluorophenol	0.932	0.839	10.0	60	-0.03
5 S	Phenol-d6	1.152	0.976	15.3	61	-0.04
6	bis(2-Chloroethyl)ether	1.190	1.022	14.1	61	-0.04
7 I	Naphthalene-d8	1.000	1.000	0.0	80	-0.03
8 S	Nitrobenzene-d5	0.435	0.348	20.0	67	-0.03
9	Naphthalene	1.177	1.030	12.5	69	-0.03
10	Hexachlorobutadiene	0.277	0.244	11.9	67	-0.03
11 SURR	2-Methylnaphthalene-d10	0.595	0.543	8.7	72	-0.04
12	2-Methylnaphthalene	0.749	0.666	11.1	70	-0.03
13 I	Acenaphthene-d10	1.000	1.000	0.0	83	-0.03
14 S	2,4,6-Tribromophenol	0.182	0.159	12.6	71	-0.02
15 S	2-Fluorobiphenyl	2.327	1.957	15.9	68	-0.03
16	Acenaphthylene	1.888	1.606	14.9	69	-0.02
17	Acenaphthene	1.236	1.100	11.0	72	-0.03
18	Fluorene	1.672	1.479	11.5	70	-0.02
19 I	Phenanthrene-d10	1.000	1.000	0.0	84	-0.02
20	4,6-Dinitro-2-methylphenol	0.086	0.079	8.1	86	-0.02
21	4-Bromophenyl-phenylether	0.251	0.227	9.6	70	-0.02
22	Hexachlorobenzene	0.303	0.274	9.6	68	-0.02
23	Atrazine	0.201	0.190	5.5	75	-0.02
24	Pentachlorophenol	0.138	0.129	6.5	79	-0.04
25	Phenanthrene	1.200	1.133	5.6	73	-0.02
26	Anthracene	1.083	0.980	9.5	72	-0.02
27 SURR	Fluoranthene-d10	1.025	0.994	3.0	75	-0.02
28	Fluoranthene	1.348	1.344	0.3	78	-0.02
29 I	Chrysene-d12	1.000	1.000	0.0	94	-0.02
30	Pyrene	1.956	1.767	9.7	78	-0.02
31 S	Terphenyl-d14	0.958	0.842	12.1	77	-0.02
32	Benzo(a)anthracene	1.391	1.221	12.2	80	-0.02
33	Chrysene	1.520	1.463	3.7	85	-0.02
34	Bis(2-ethylhexyl)phthalate	0.990	0.900	9.1	81	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	97	-0.03
36	Indeno(1,2,3-cd)pyrene	1.444	1.289	10.7	81	-0.04
37	Benzo(b)fluoranthene	1.456	1.378	5.4	86	-0.02
38	Benzo(k)fluoranthene	1.527	1.501	1.7	90	-0.02
39 C	Benzo(a)pyrene	1.226	1.223	0.2	91	-0.03
40	Dibenzo(a,h)anthracene	1.124	0.954	15.1	80	-0.04
41	Benzo(g,h,i)perylene	1.286	1.166	9.3	82	-0.05

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 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	-0.03
2	1,4-Dioxane	0.400	0.403	-0.8	64	-0.01
3	n-Nitrosodimethylamine	0.400	0.408	-2.0	69	-0.01
4 S	2-Fluorophenol	0.400	0.360	10.0	60	-0.03
5 S	Phenol-d6	0.400	0.339	15.3	61	-0.04
6	bis(2-Chloroethyl)ether	0.400	0.343	14.2	61	-0.04
7 I	Naphthalene-d8	0.400	0.400	0.0	80	-0.03
8 S	Nitrobenzene-d5	0.400	0.320	20.0	67	-0.03
9	Naphthalene	0.400	0.350	12.5	69	-0.03
10	Hexachlorobutadiene	0.400	0.352	12.0	67	-0.03
11 SURR	2-Methylnaphthalene-d10	0.400	0.365	8.8	72	-0.04
12	2-Methylnaphthalene	0.400	0.356	11.0	70	-0.03
13 I	Acenaphthene-d10	0.400	0.400	0.0	83	-0.03
14 S	2,4,6-Tribromophenol	0.400	0.351	12.3	71	-0.02
15 S	2-Fluorobiphenyl	0.400	0.336	16.0	68	-0.03
16	Acenaphthylene	0.400	0.340	15.0	69	-0.02
17	Acenaphthene	0.400	0.356	11.0	72	-0.03
18	Fluorene	0.400	0.354	11.5	70	-0.02
19 I	Phenanthrene-d10	0.400	0.400	0.0	84	-0.02
20	4,6-Dinitro-2-methylphenol	0.400	0.454	-13.5	86	-0.02
21	4-Bromophenyl-phenylether	0.400	0.363	9.3	70	-0.02
22	Hexachlorobenzene	0.400	0.363	9.3	68	-0.02
23	Atrazine	0.400	0.377	5.8	75	-0.02
24	Pentachlorophenol	0.400	0.375	6.3	79	-0.04
25	Phenanthrene	0.400	0.378	5.5	73	-0.02
26	Anthracene	0.400	0.362	9.5	72	-0.02
27 SURR	Fluoranthene-d10	0.400	0.388	3.0	75	-0.02
28	Fluoranthene	0.400	0.399	0.3	78	-0.02
29 I	Chrysene-d12	0.400	0.400	0.0	94	-0.02
30	Pyrene	0.400	0.361	9.8	78	-0.02
31 S	Terphenyl-d14	0.400	0.352	12.0	77	-0.02
32	Benzo(a)anthracene	0.400	0.351	12.3	80	-0.02
33	Chrysene	0.400	0.385	3.8	85	-0.02
34	Bis(2-ethylhexyl)phthalate	0.400	0.364	9.0	81	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	97	-0.03
36	Indeno(1,2,3-cd)pyrene	0.400	0.357	10.8	81	-0.04
37	Benzo(b)fluoranthene	0.400	0.379	5.3	86	-0.02
38	Benzo(k)fluoranthene	0.400	0.393	1.8	90	-0.02
39 C	Benzo(a)pyrene	0.400	0.399	0.3	91	-0.03
40	Dibenzo(a,h)anthracene	0.400	0.340	15.0	80	-0.04
41	Benzo(g,h,i)perylene	0.400	0.363	9.3	82	-0.05

(#) = Out of Range

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



QC SAMPLE DATA

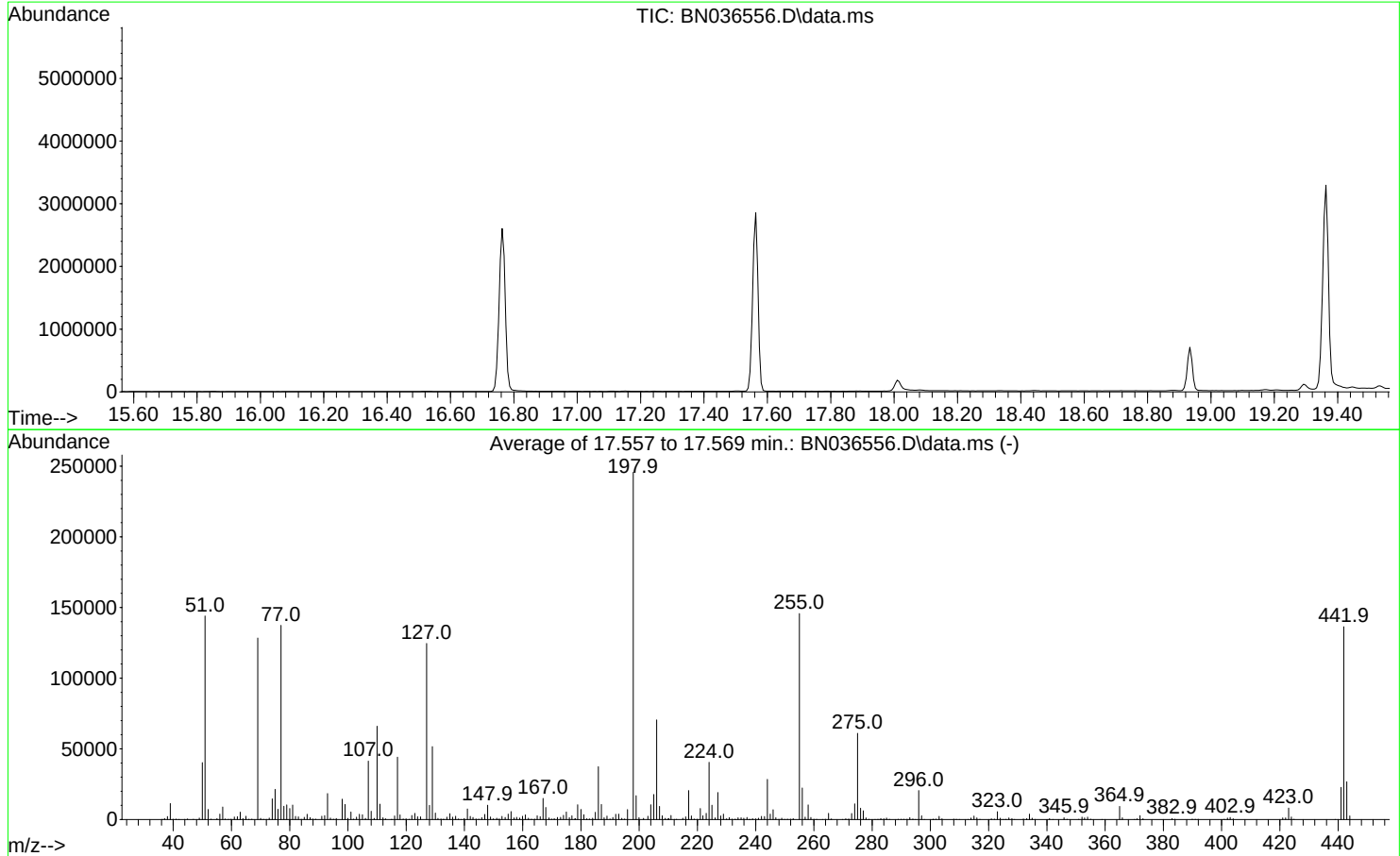
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
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-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



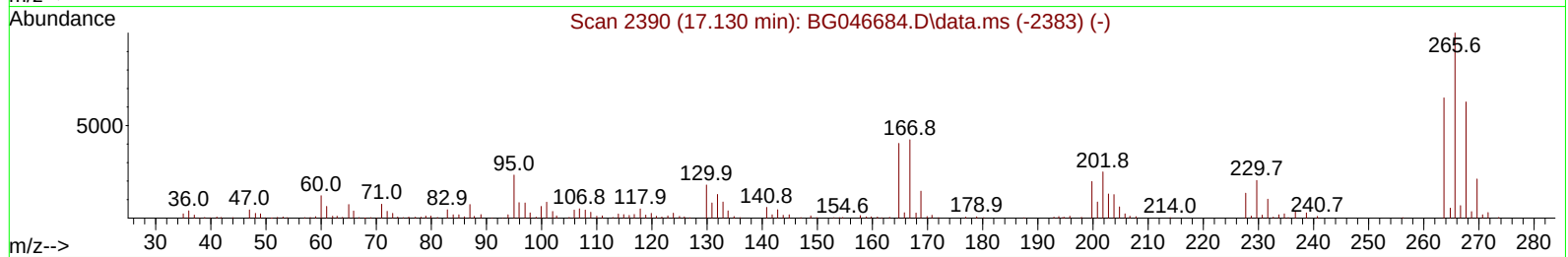
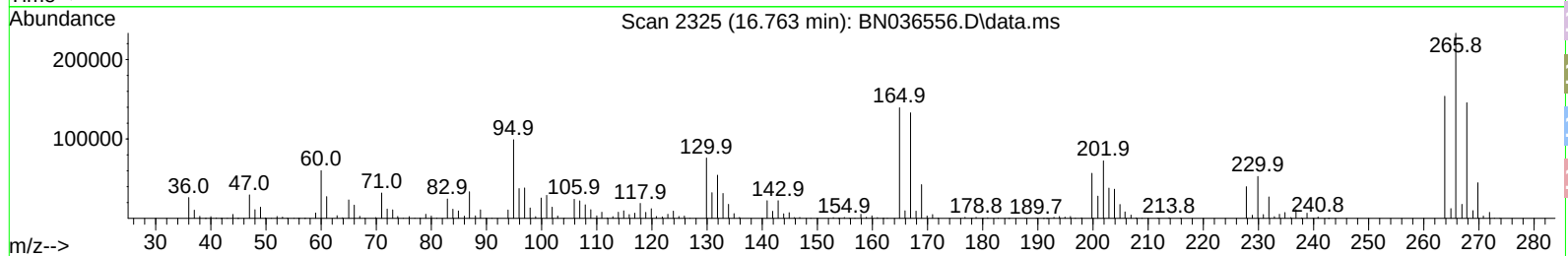
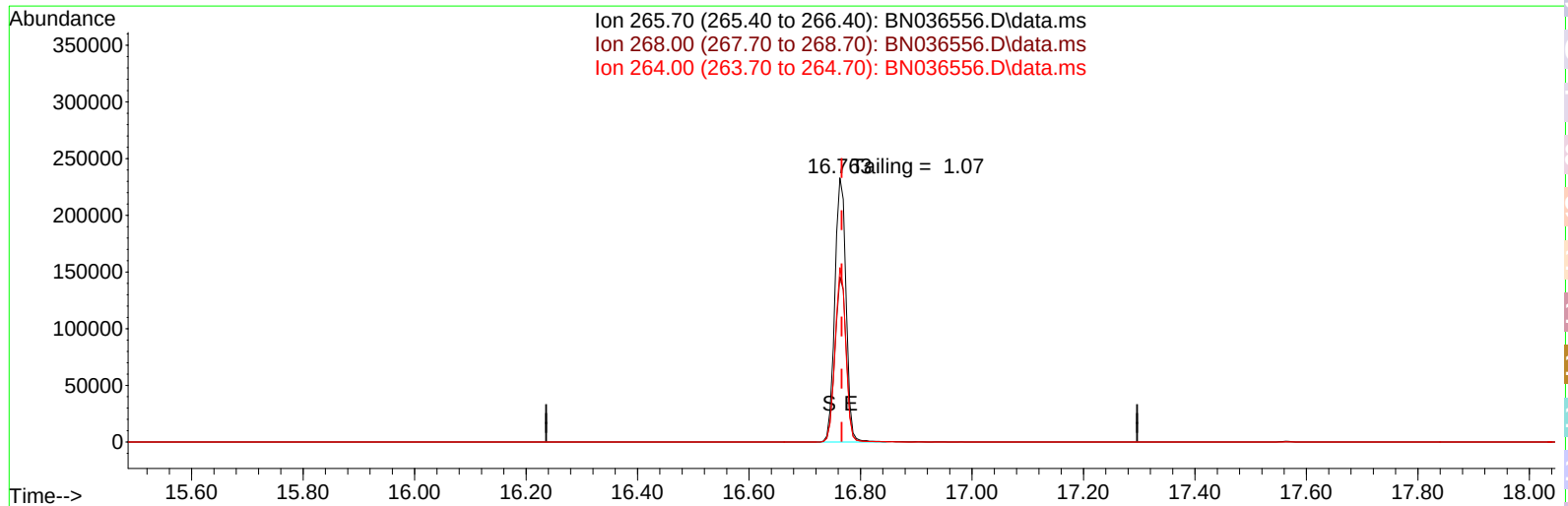
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	58.6	144050	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.3	128410	PASS
70	69	0.00	2	0.7	835	PASS
127	198	10	80	50.7	124576	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	245632	PASS
199	198	5	9	6.9	16887	PASS
275	198	10	60	24.8	60997	PASS
365	198	1	100	3.8	9349	PASS
441	198	0.01	100	9.3	22761	PASS
442	442	50	100	100.0	136488	PASS
443	442	15	24	19.6	26765	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 10 17:07:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036556.D\data.ms

(70) Pentachlorophenol (C)

16.763min (-0.003) 23577.14 ng

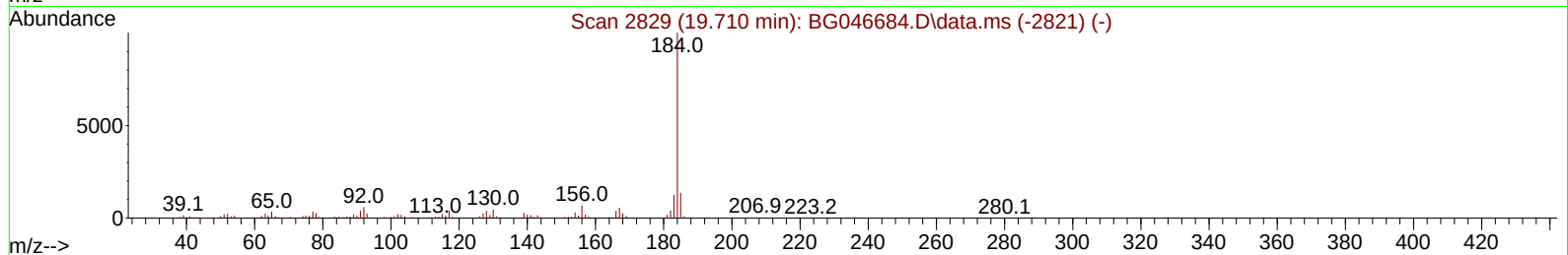
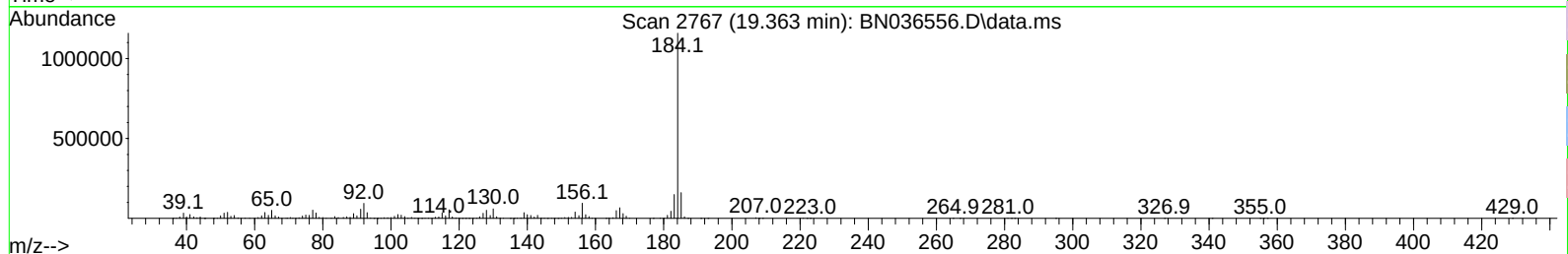
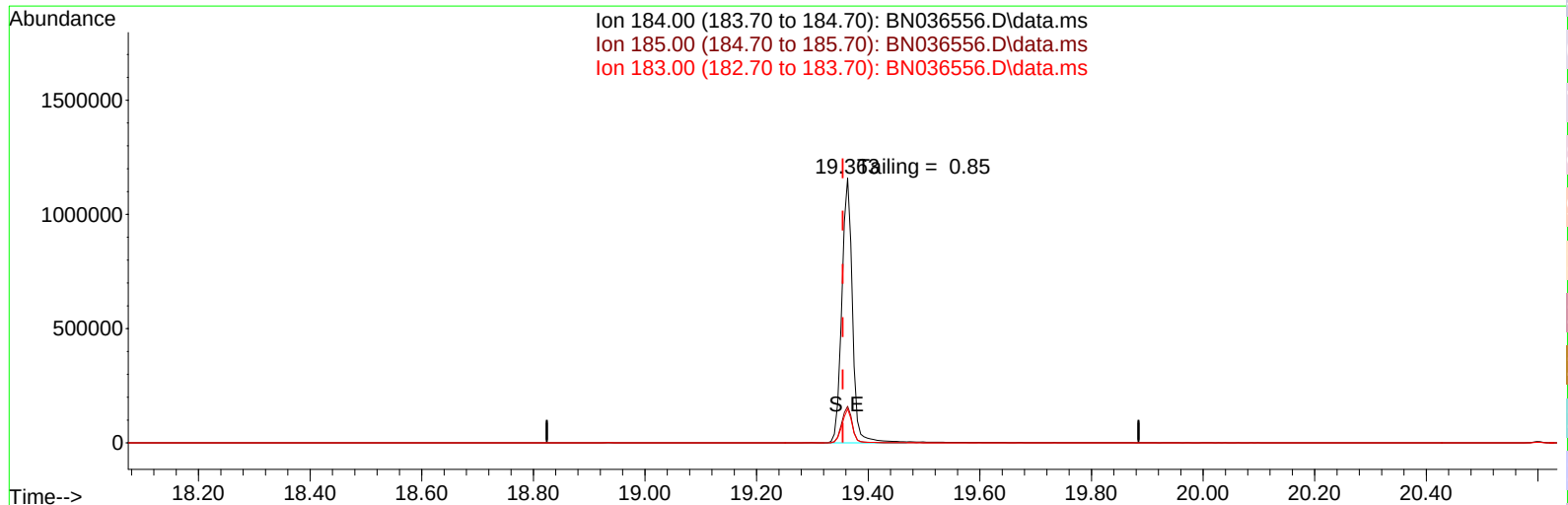
response 323613

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.52
264.00	61.60	66.01
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036556.D
Acq On : 10 Mar 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 10 17:07:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036556.D\data.ms

(77) Benzidine

19.363min (+ 0.009) 0.00 ng

response 1553313

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.86
183.00	13.20	12.85
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

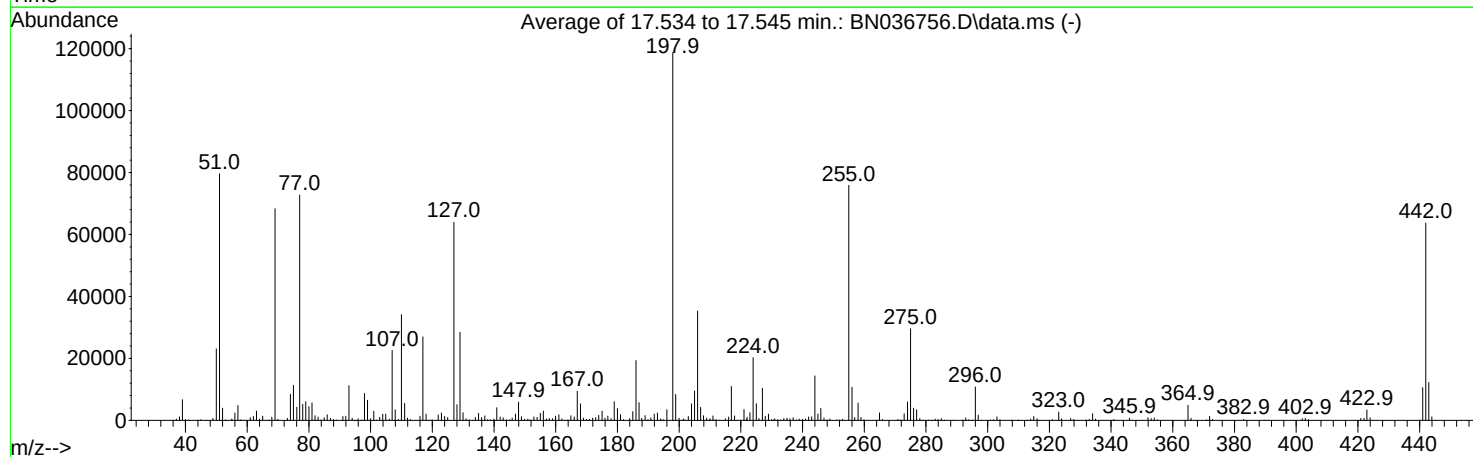
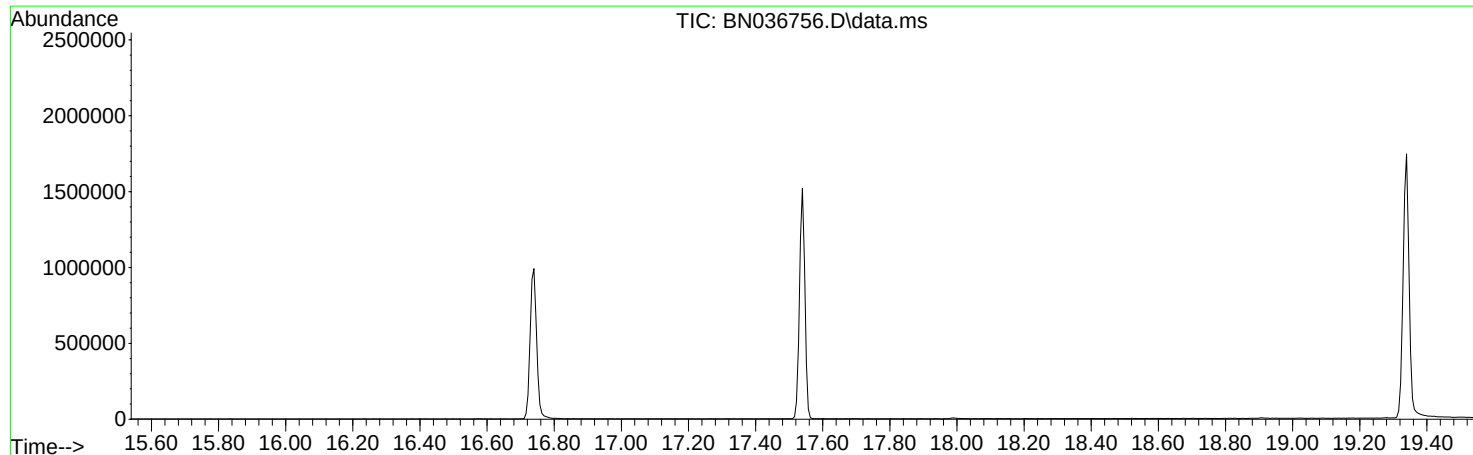
Date	Instrument Name	DFTPP Data File
3/10/2025	BNA_N	<u>BN036556.D</u>
Compound Name	Response	Retention Time
DDT	1110406	20.598
DDD	11596	20.21
DDE	530	19.645
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
12126	1122532	1.08

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036756.D
Acq On : 28 Mar 2025 03:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



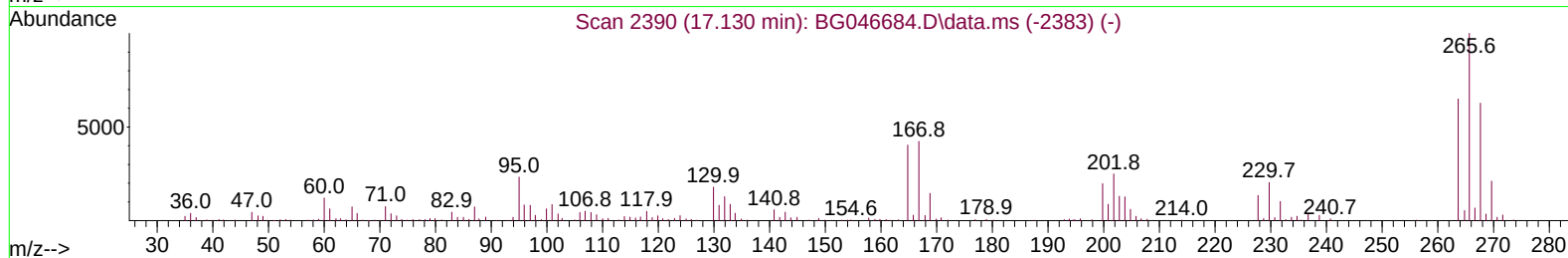
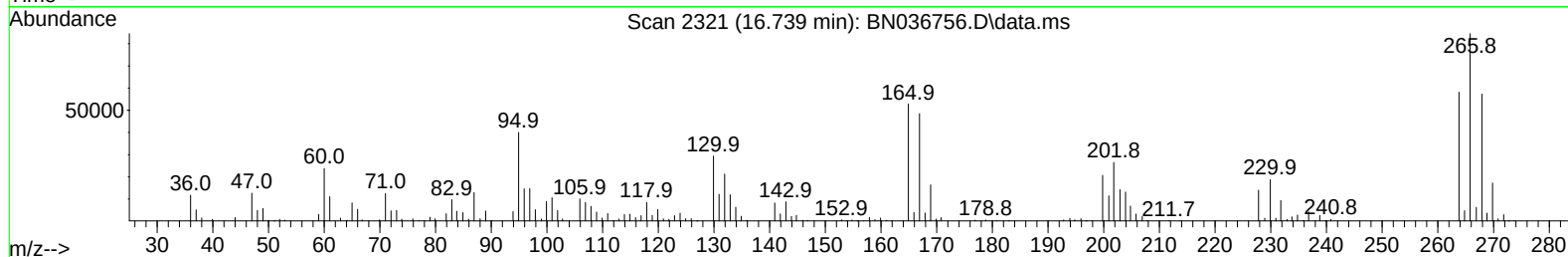
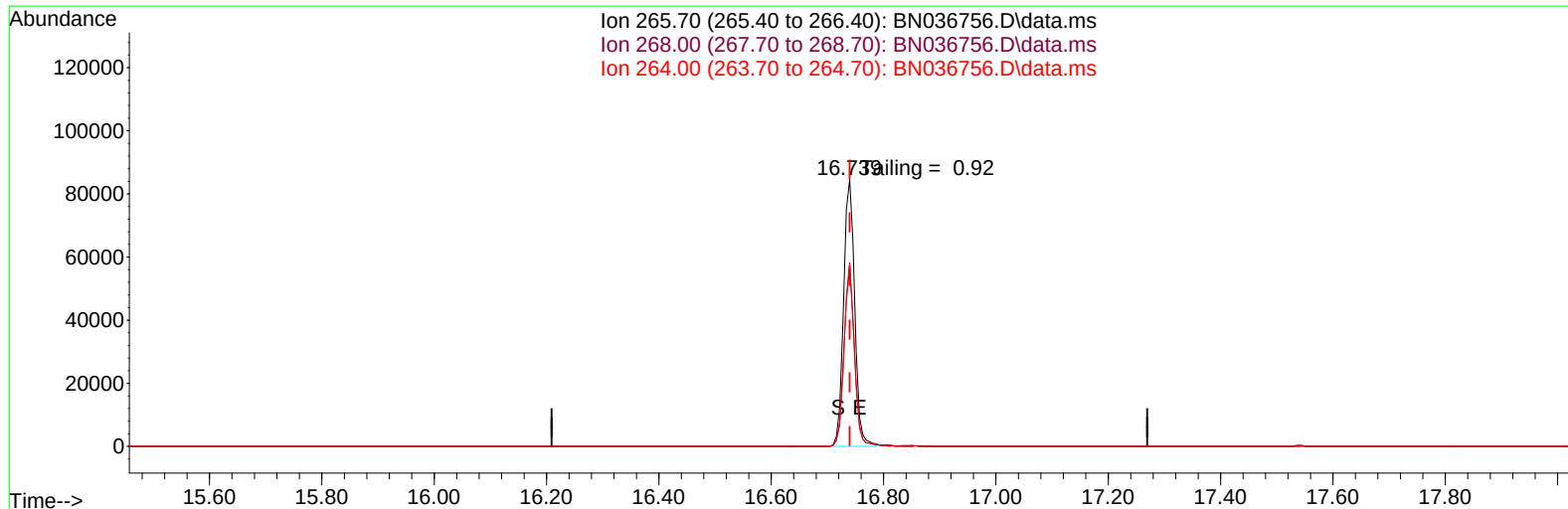
AutoFind: Scans 2456, 2457, 2458; Background Corrected with Scan 2450

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	67.0	79608	PASS
68	69	0.00	2	1.5	1020	PASS
69	198	0.00	100	57.5	68325	PASS
70	69	0.00	2	0.5	357	PASS
127	198	10	80	53.9	63944	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	118744	PASS
199	198	5	9	7.1	8386	PASS
275	198	10	60	24.9	29595	PASS
365	198	1	100	4.1	4858	PASS
441	198	0.01	100	8.9	10582	PASS
442	442	50	100	100.0	63691	PASS
443	442	15	24	19.2	12256	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036756.D
Acq On : 28 Mar 2025 03:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 28 05:40:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 28 05:40:24 2025
Response via : Initial Calibration



TIC: BN036756.D\data.ms

(70) Pentachlorophenol (C)

16.739min (0.000) 15913.57 ng

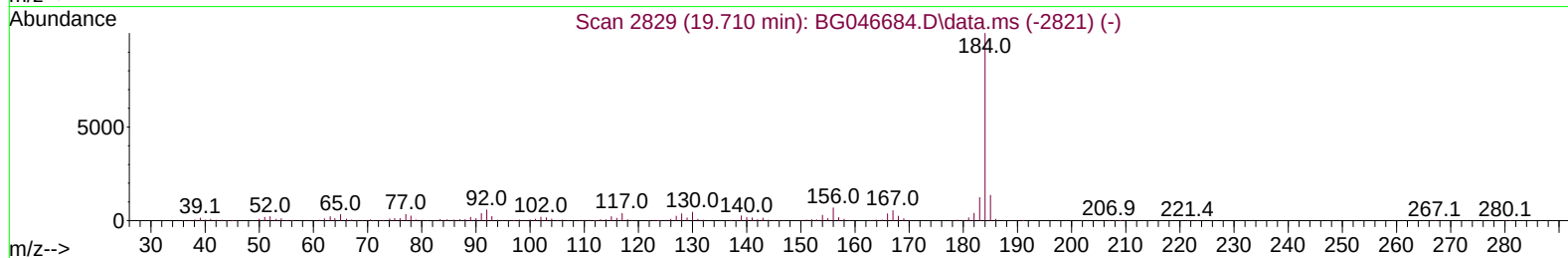
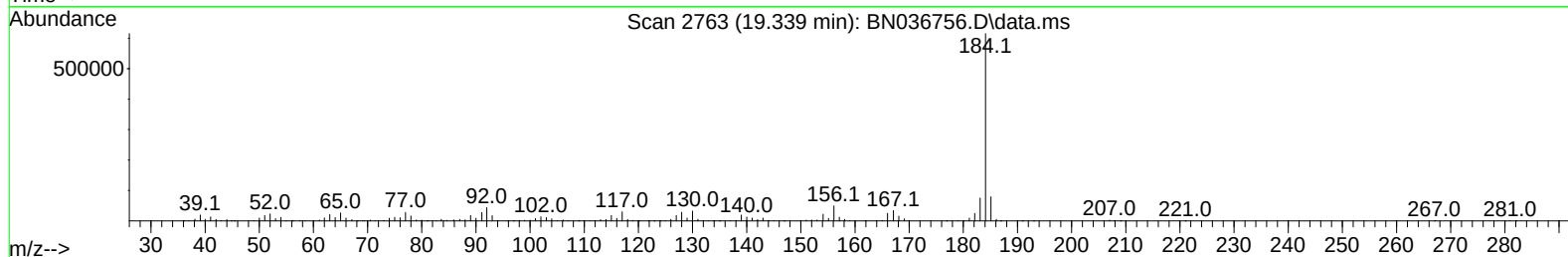
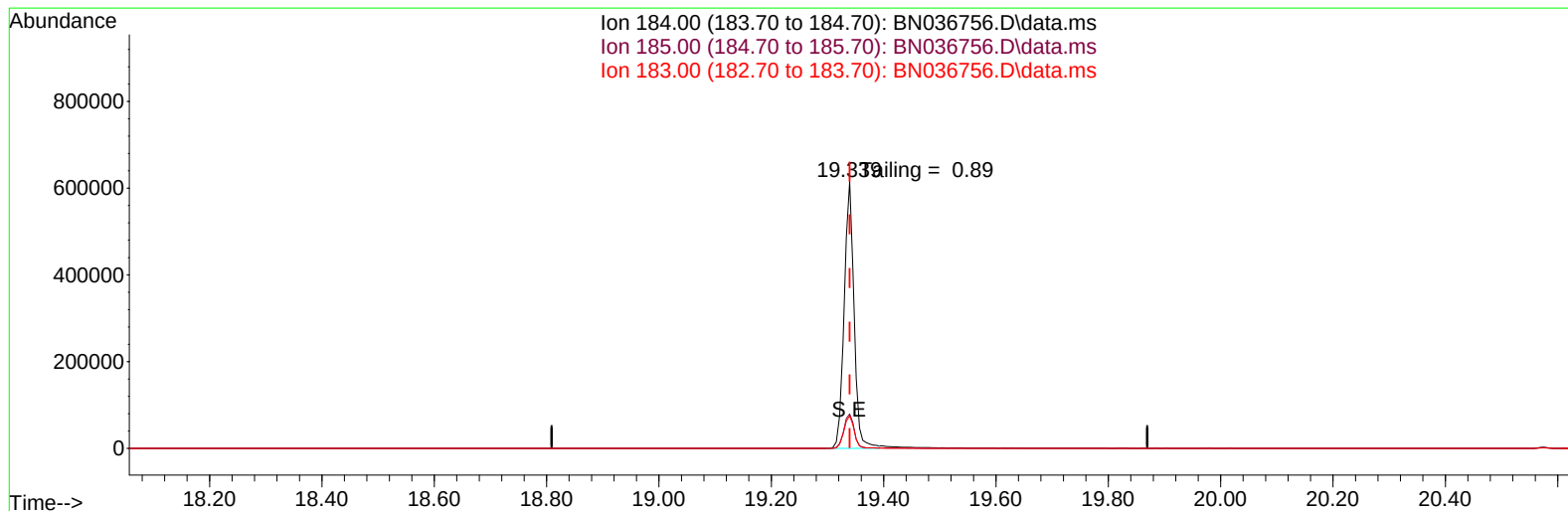
response 116893

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	67.77
264.00	61.60	68.86
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036756.D
Acq On : 28 Mar 2025 03:07
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 28 05:40:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 28 05:40:24 2025
Response via : Initial Calibration



TIC: BN036756.D\data.ms

(77) Benzidine

19.339min (0.000) 0.00 ng

response 762967

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	12.92
183.00	13.20	12.18
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

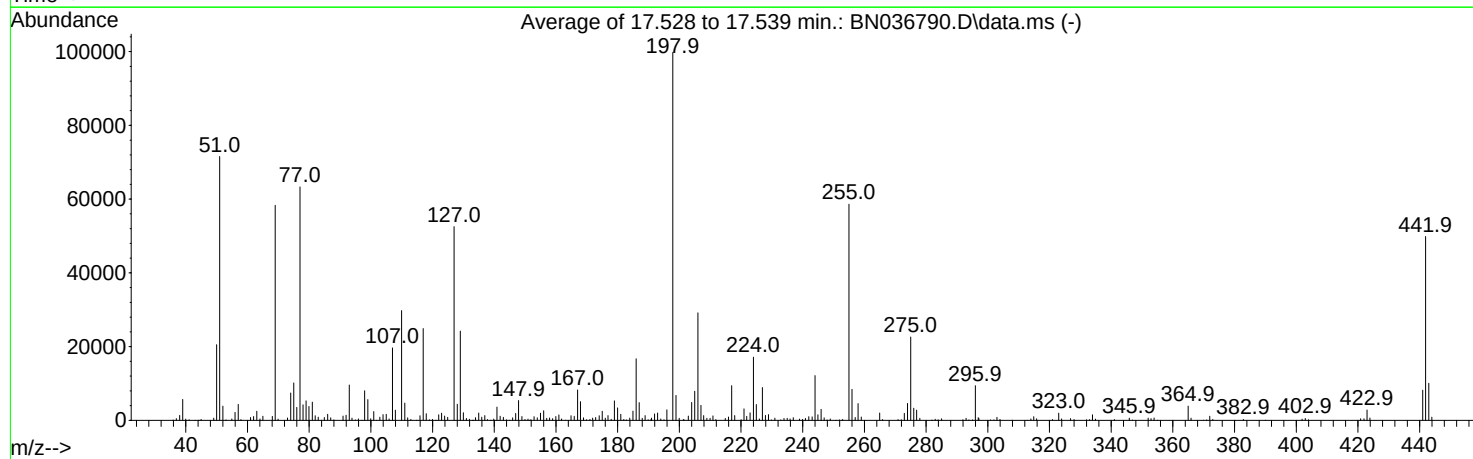
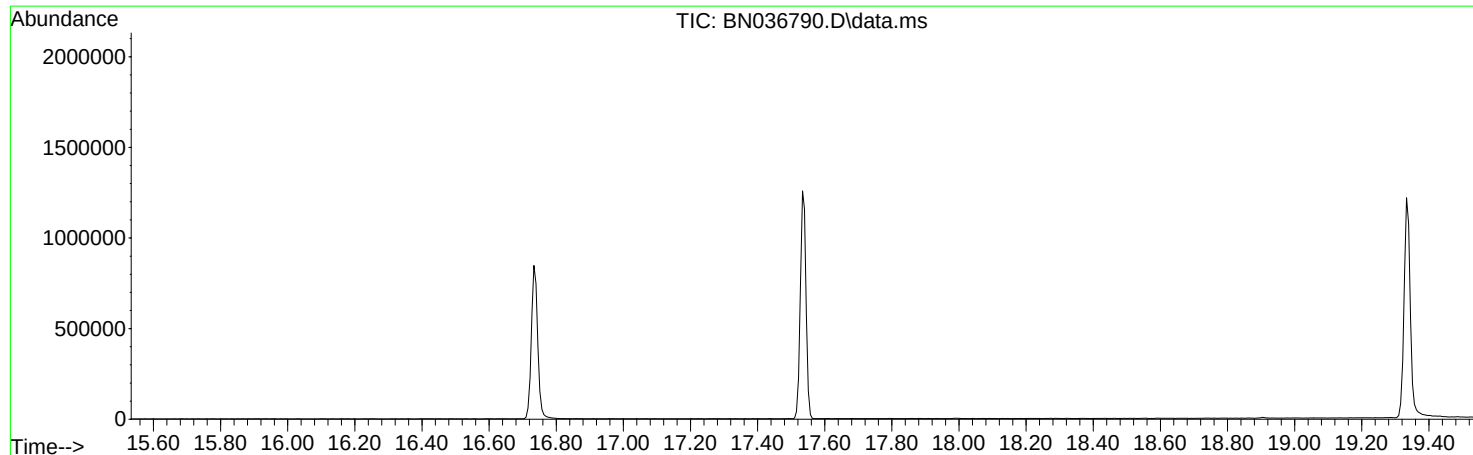
Date	Instrument Name	DFTPP Data File
3/27/2025	BNA_N	<u>BN036756.D</u>
Compound Name	Response	Retention Time
DDT	412653	20.575
DDD	5613	20.186
DDE	207	19.633
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
5820	418473	1.39

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036790.D
Acq On : 29 Mar 2025 01:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



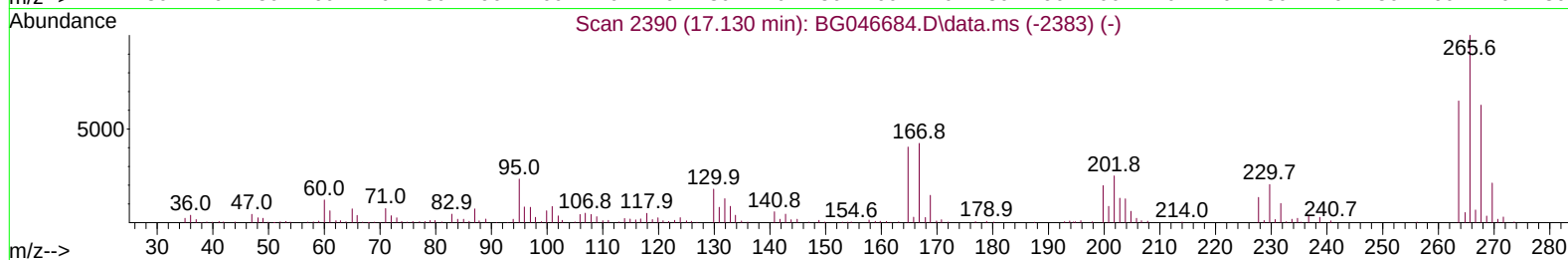
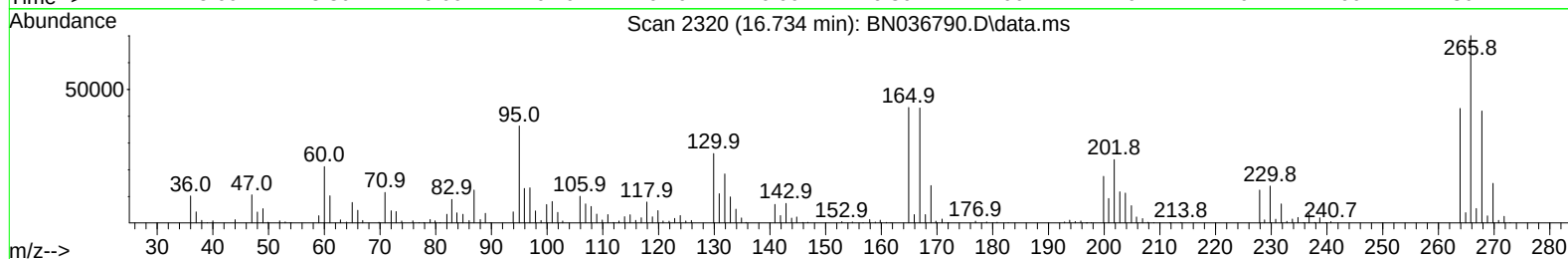
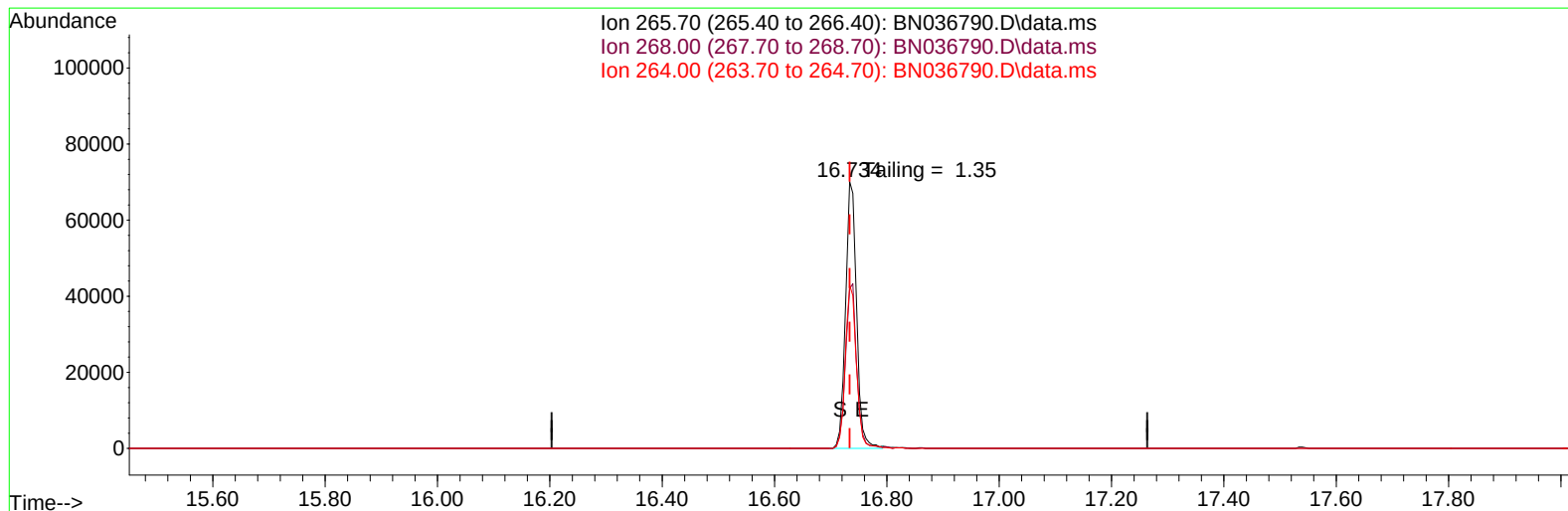
AutoFind: Scans 2455, 2456, 2457; Background Corrected with Scan 2449

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	71.7	71579	PASS
68	69	0.00	2	1.9	1100	PASS
69	198	0.00	100	58.5	58331	PASS
70	69	0.00	2	0.6	333	PASS
127	198	10	80	52.7	52565	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	99763	PASS
199	198	5	9	6.8	6769	PASS
275	198	10	60	22.7	22601	PASS
365	198	1	100	3.9	3887	PASS
441	198	0.01	100	8.2	8219	PASS
442	442	50	100	100.0	49867	PASS
443	442	15	24	20.2	10070	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036790.D
Acq On : 29 Mar 2025 01:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 01 00:17:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 01 00:16:52 2025
Response via : Initial Calibration



TIC: BN036790.D\data.ms

(70) Pentachlorophenol (C)

16.734min (0.000) 16501.63 ng

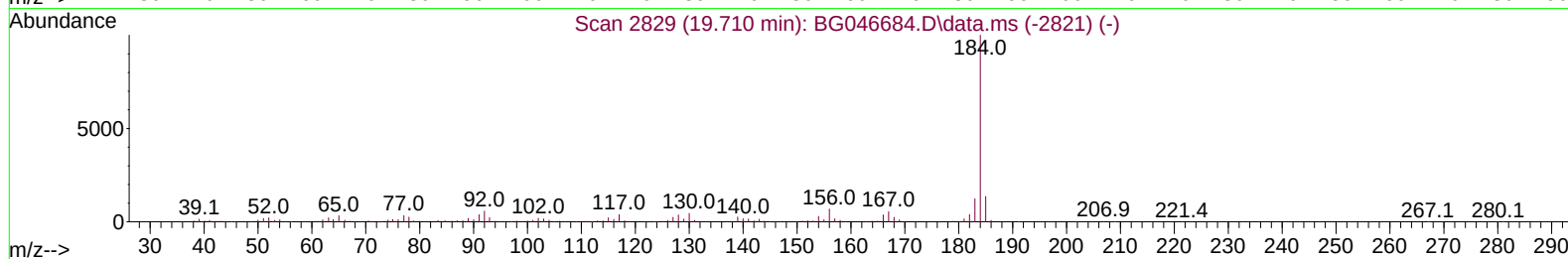
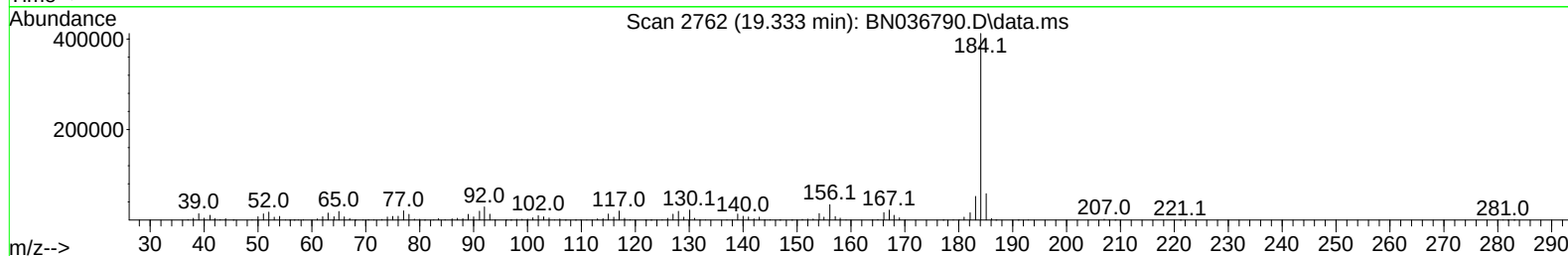
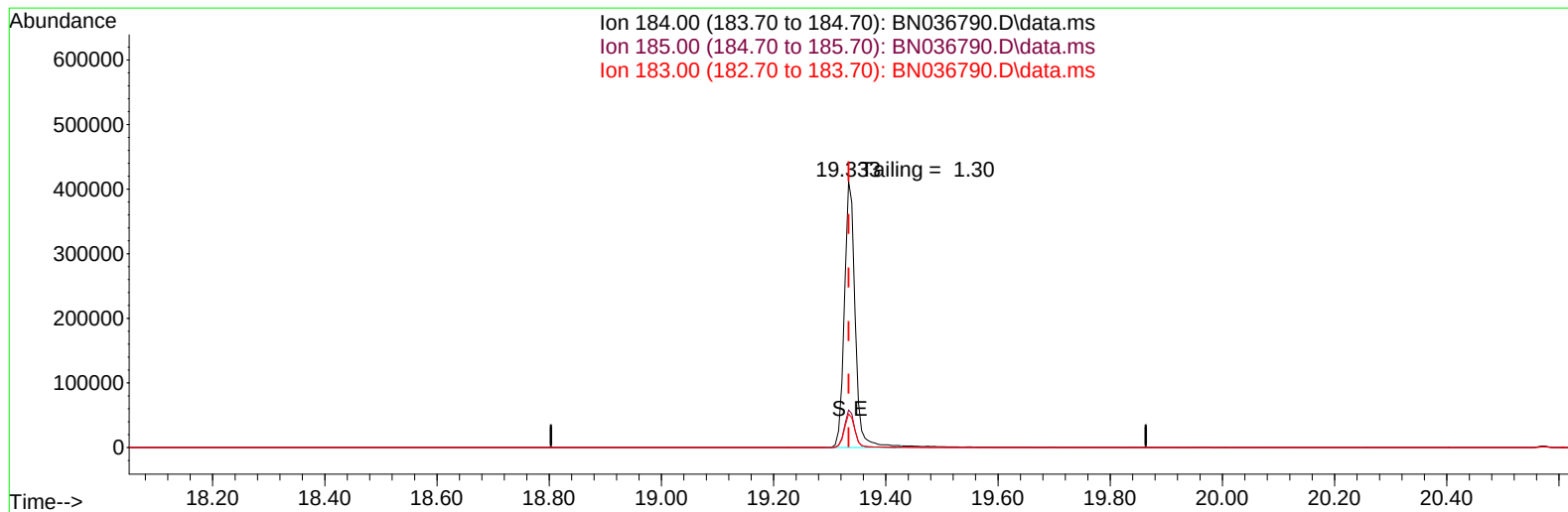
response 96219

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.83
264.00	61.60	61.22
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036790.D
Acq On : 29 Mar 2025 01:26
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 01 00:17:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 01 00:16:52 2025
Response via : Initial Calibration



TIC: BN036790.D\data.ms

(77) Benzidine

19.333min (0.000) 0.00 ng

response 556362

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.17
183.00	13.20	12.68
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

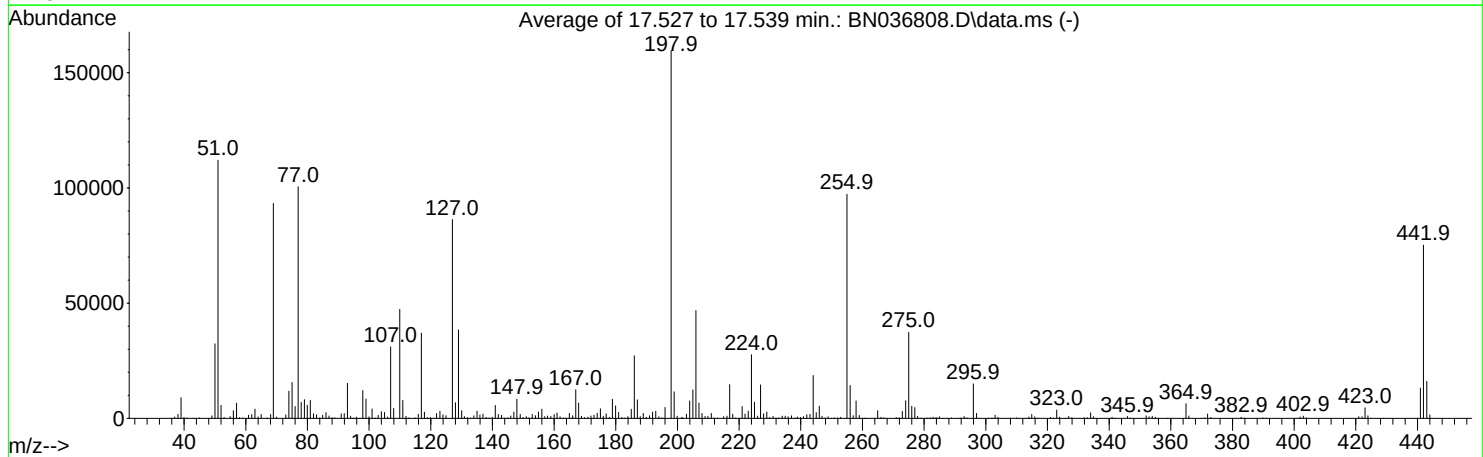
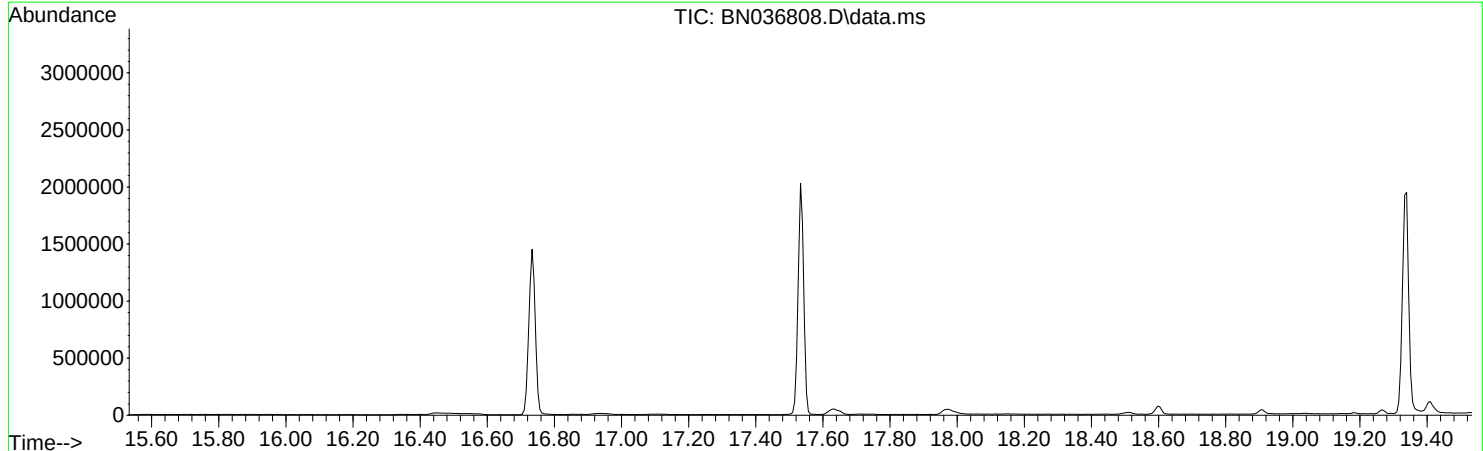
Date	Instrument Name	DFTPP Data File
3/28/2025	BNA_N	<u>BN036790.D</u>
Compound Name	Response	Retention Time
DDT	356014	20.575
DDD	5380	20.133
DDE	263	19.628
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
5643	361657	1.56

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036808.D
Acq On : 31 Mar 2025 10:00
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-BN031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 16:06:28 2025



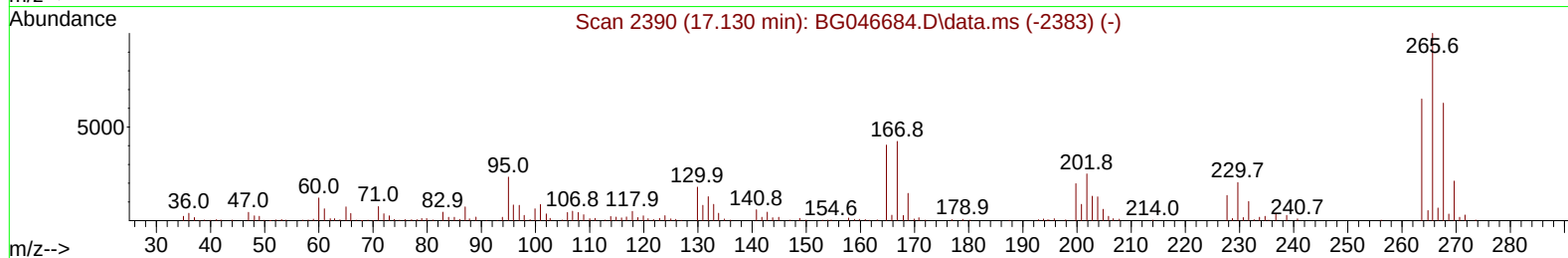
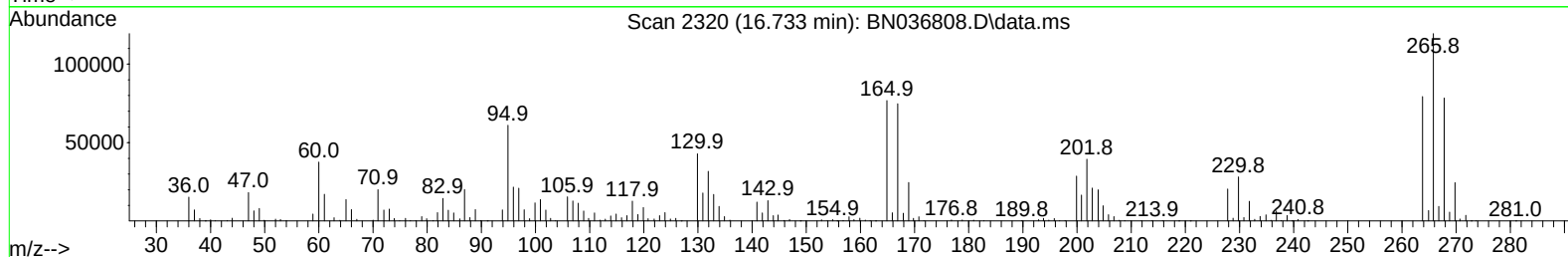
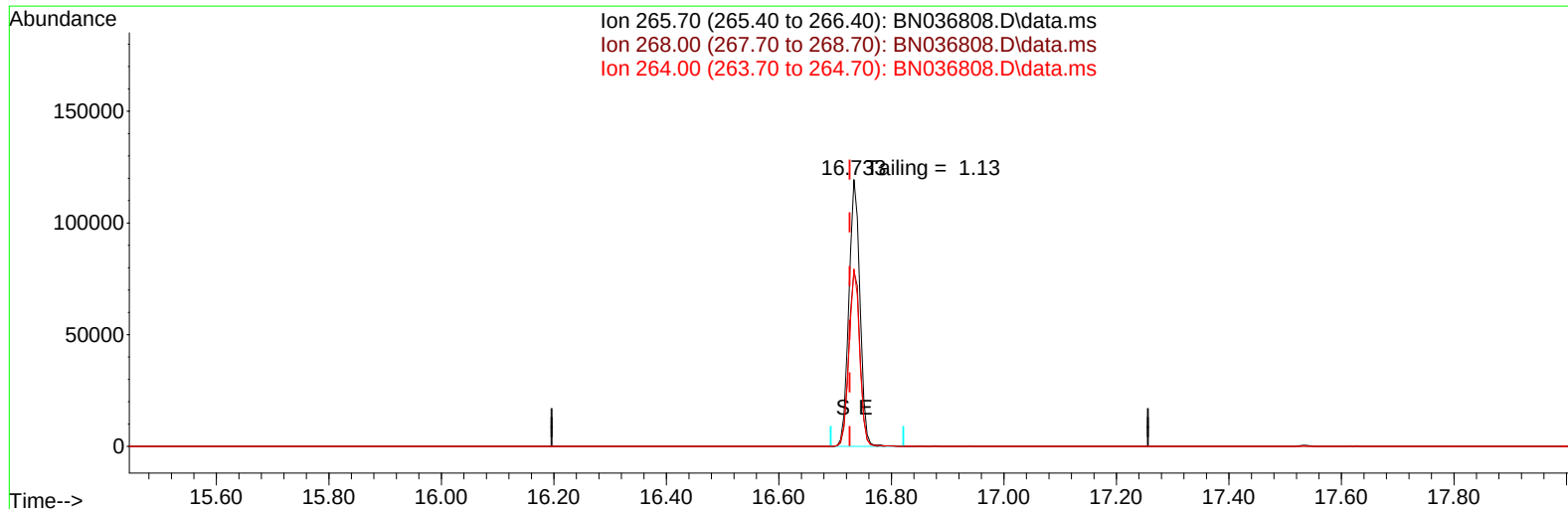
AutoFind: Scans 2455, 2456, 2457; Background Corrected with Scan 2449

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	70.2	112056	PASS
68	69	0.00	2	1.8	1674	PASS
69	198	0.00	100	58.4	93275	PASS
70	69	0.00	2	0.6	564	PASS
127	198	10	80	54.1	86363	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	159677	PASS
199	198	5	9	7.2	11540	PASS
275	198	10	60	23.4	37339	PASS
365	198	1	100	4.0	6395	PASS
441	198	0.01	100	8.3	13207	PASS
442	442	50	100	100.0	75192	PASS
443	442	15	24	21.3	16045	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036808.D
Acq On : 31 Mar 2025 10:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 31 12:42:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 29 04:33:53 2025
Response via : Initial Calibration



TIC: BN036808.D\data.ms

(70) Pentachlorophenol (C)

16.733min (+ 0.007) 18057.26 ng

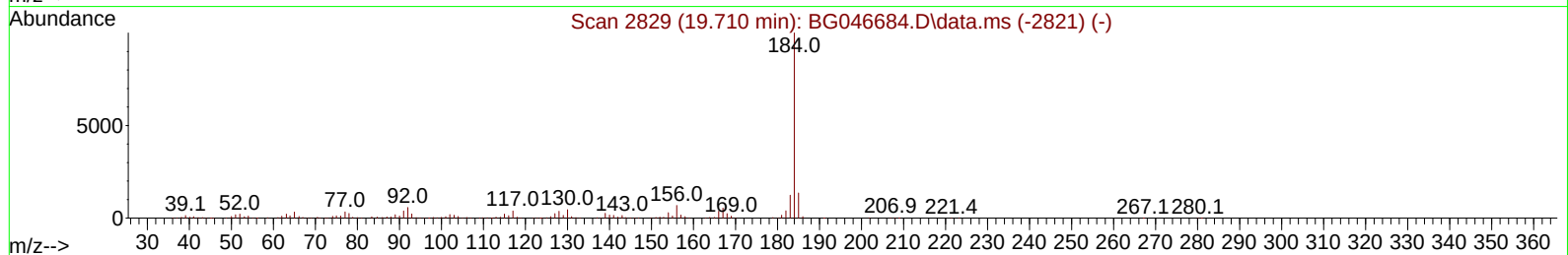
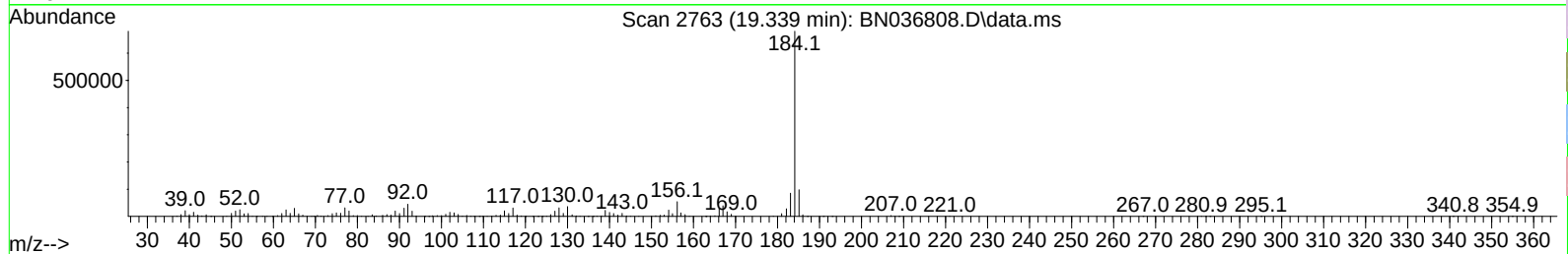
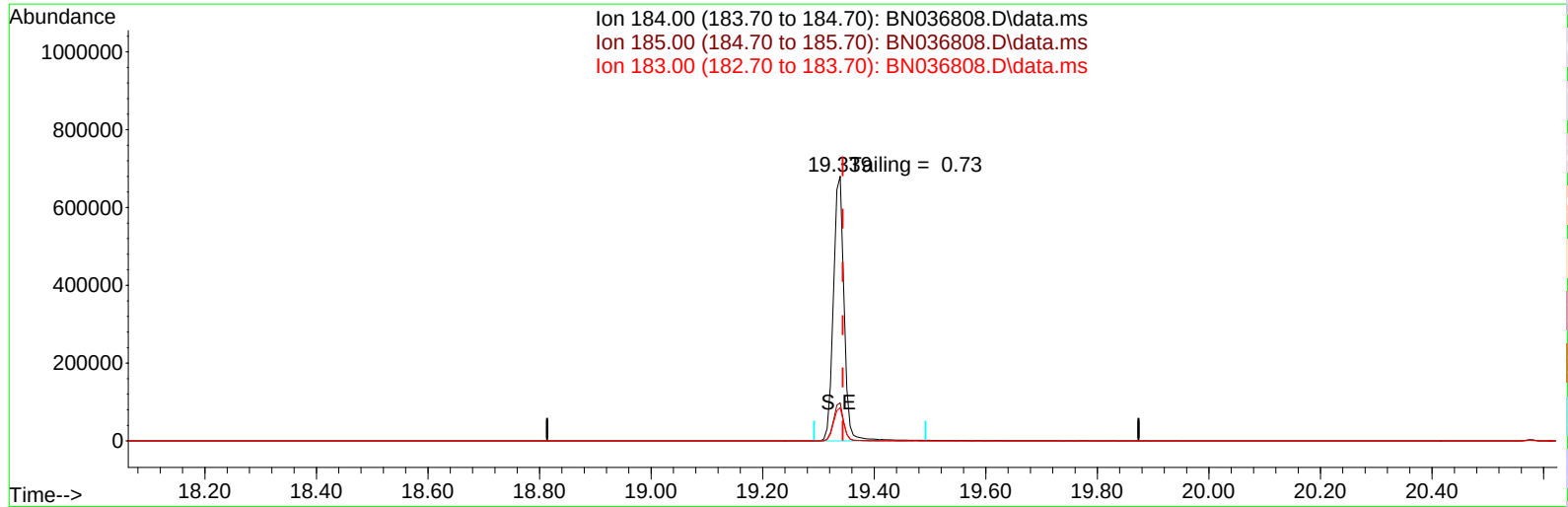
response 163532

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.65
264.00	61.60	66.47
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036808.D
Acq On : 31 Mar 2025 10:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 31 12:45:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 29 04:33:53 2025
Response via : Initial Calibration



TIC: BN036808.D\data.ms

(77) Benzidine

19.339min (-0.005) 0.00 ng

response 903894

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.38
183.00	13.20	12.51
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/31/2025	BNA_N	<u>BN036808.D</u>
Compound Name	Response	Retention Time
DDT	562026	20.58
DDD	7640	20.186
DDE	699	19.627
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
8339	570365	1.46

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage - RW7B CTO WE13 112G08005	Date Received:	
Client Sample ID:	PB167269BL	SDG No.:	Q1620
Lab Sample ID:	PB167269BL	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
BN036758.D	1	03/24/25 08:15	03/28/25 04:22	PB167269

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	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		78%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		73%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2130	7.703				
1146-65-2	Naphthalene-d8	4740	10.498				
15067-26-2	Acenaphthene-d10	2600	14.345				
1517-22-2	Phenanthrene-d10	5170	17.099				
1719-03-5	Chrysene-d12	3970	21.277				
1520-96-3	Perylene-d12	2210	23.528				

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\BN032725\
Data File : BN036758.D
Acq On : 28 Mar 2025 04:22
Operator : RC/JU
Sample : PB167269BL
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167269BL

Quant Time: Mar 28 05:37:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	2126	0.400	ng	-0.02
7) Naphthalene-d8	10.498	136	4744	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2602	0.400	ng	-0.02
19) Phenanthrene-d10	17.099	188	5169	0.400	ng	#-0.01
29) Chrysene-d12	21.277	240	3967	0.400	ng	-0.02
35) Perylene-d12	23.528	264	2206	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	2117	0.427	ng	-0.01
5) Phenol-d6	6.879	99	2225	0.364	ng	-0.02
8) Nitrobenzene-d5	8.864	82	1610	0.312	ng	-0.01
11) 2-Methylnaphthalene-d10	12.095	152	2360	0.334	ng	-0.02
14) 2,4,6-Tribromophenol	15.857	330	426	0.361	ng	0.00
15) 2-Fluorobiphenyl	12.983	172	4427	0.292	ng	0.00
27) Fluoranthene-d10	19.122	212	5420	0.409	ng	-0.02
31) Terphenyl-d14	19.726	244	3725	0.392	ng	-0.02

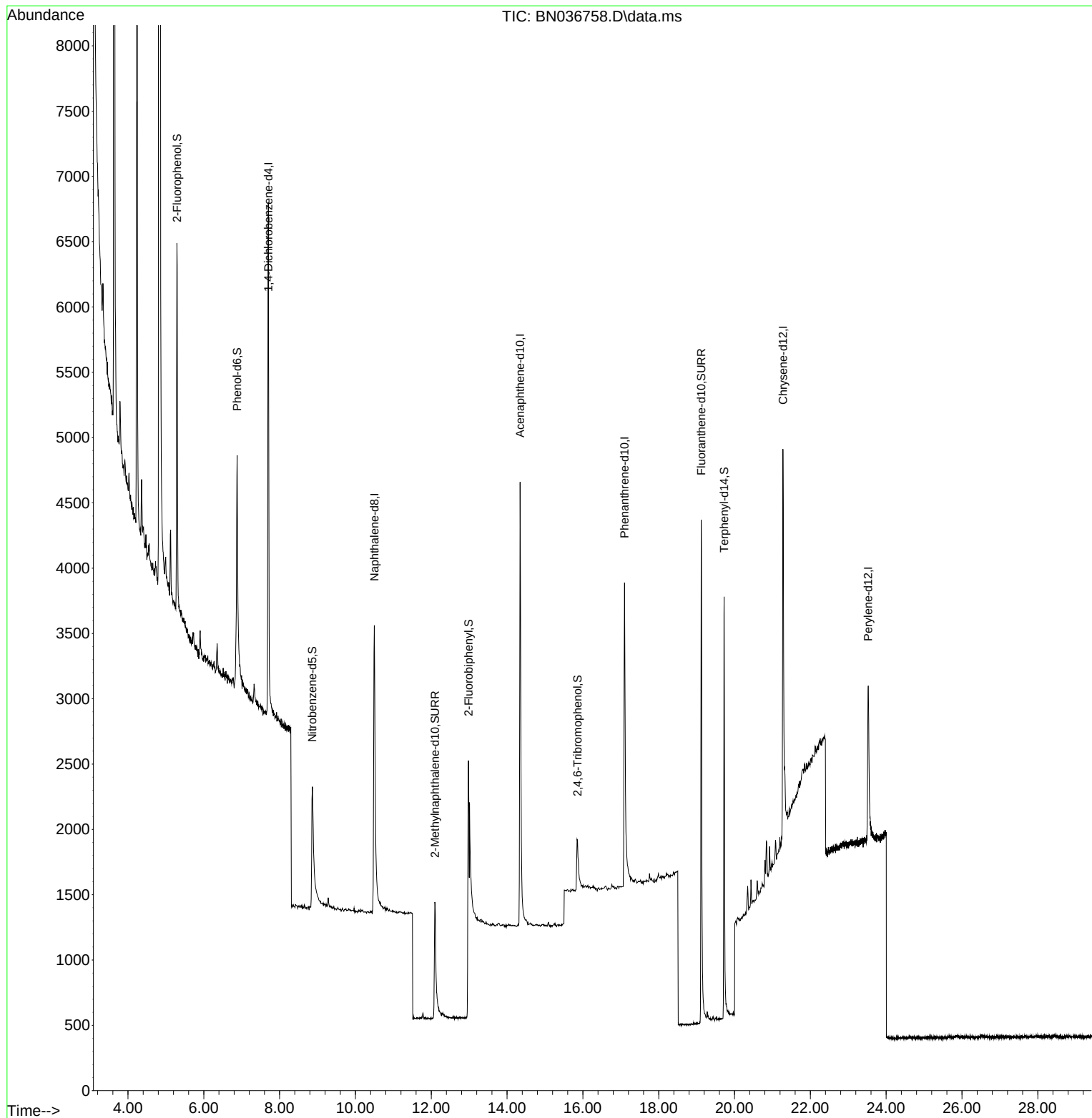
Target Compounds	Qvalue

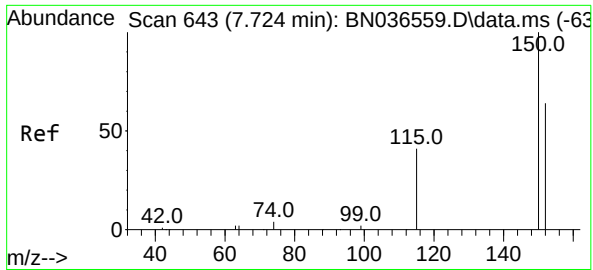
(#) = qualifier out of range (m) = manual integration (+) = signals summed	

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036758.D
Acq On : 28 Mar 2025 04:22
Operator : RC/JU
Sample : PB167269BL
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167269BL

Quant Time: Mar 28 05:37:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

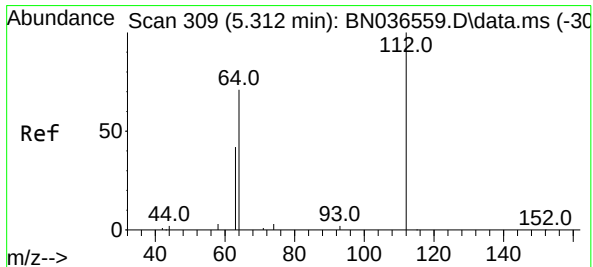
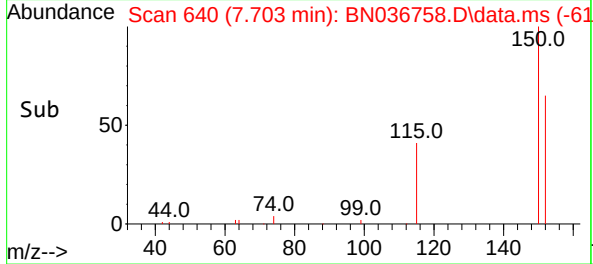
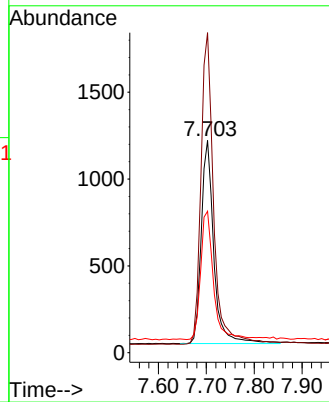
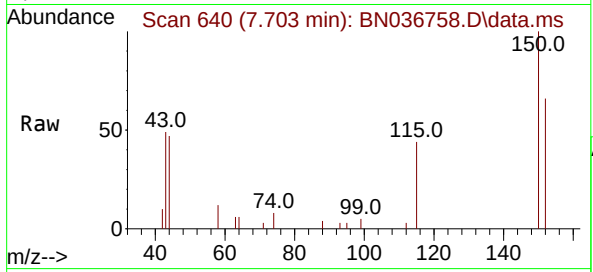




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.703 min Scan# 64
Delta R.T. -0.021 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

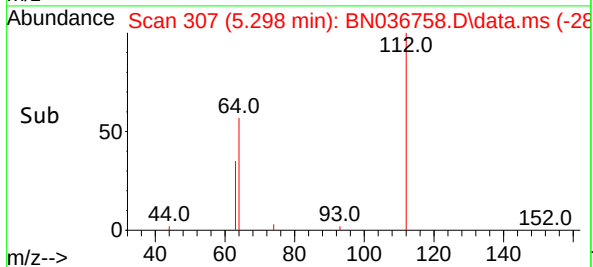
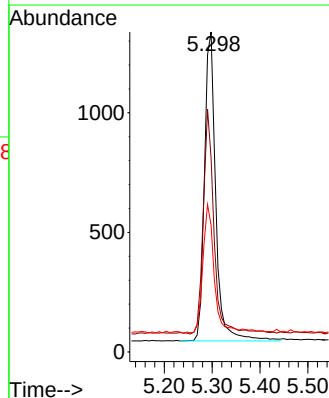
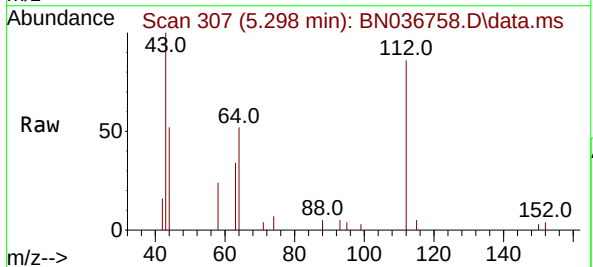
Instrument :
BNA_N
ClientSampleId :
PB167269BL

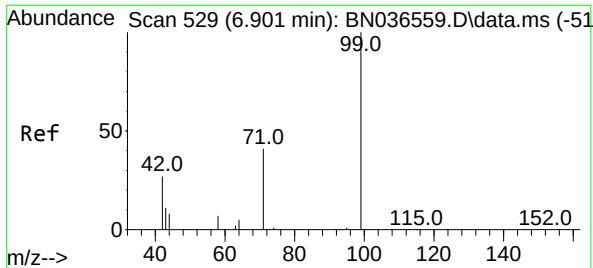
Tgt Ion:152 Resp: 2126
Ion Ratio Lower Upper
152 100
150 150.8 123.7 185.5
115 66.7 54.3 81.5



#4
2-Fluorophenol
Concen: 0.427 ng
RT: 5.298 min Scan# 307
Delta R.T. -0.014 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Tgt Ion:112 Resp: 2117
Ion Ratio Lower Upper
112 100
64 69.8 53.1 79.7
63 42.0 31.8 47.8

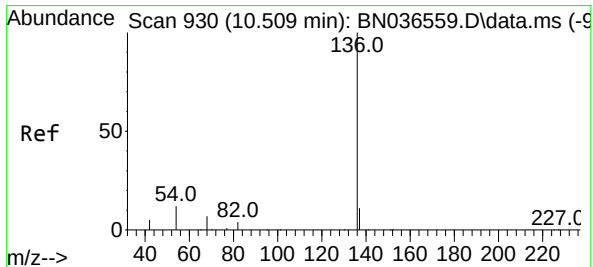
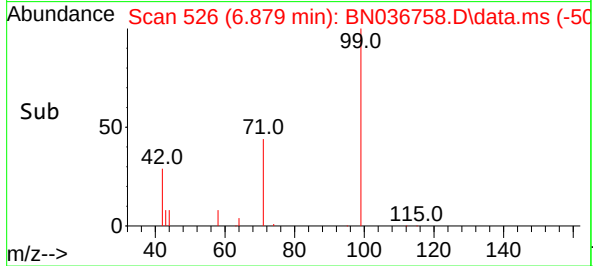
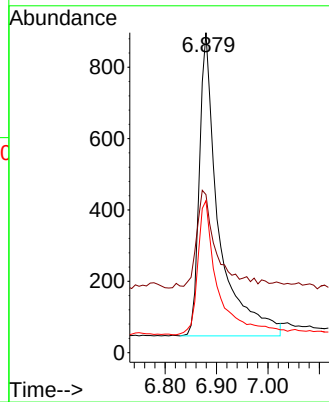
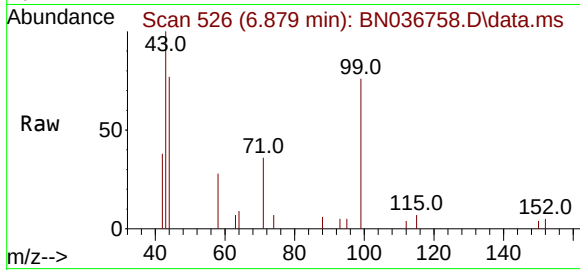




#5
Phenol-d6
Concen: 0.364 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.022 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

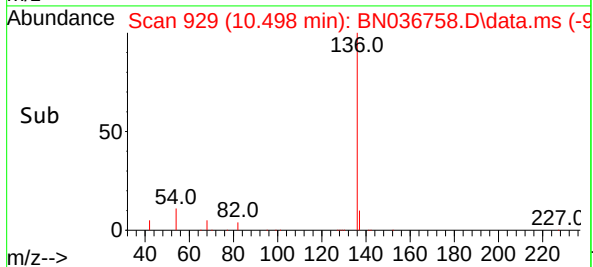
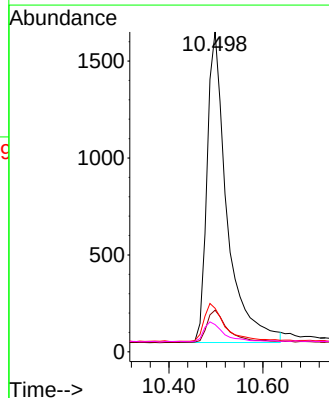
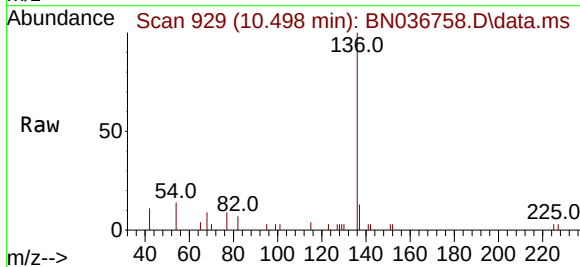
Instrument :
BNA_N
ClientSampleId :
PB167269BL

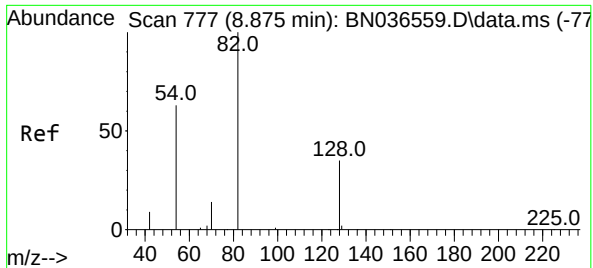
Tgt Ion:	99	Resp:	2225
Ion	Ratio	Lower	Upper
99	100		
42	33.1	26.5	39.7
71	46.4	34.1	51.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.011 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Tgt Ion:	136	Resp:	4744
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.3	15.5
54	13.6	11.5	17.3
68	8.5	7.0	10.4

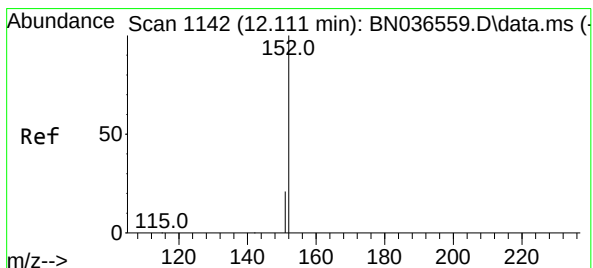
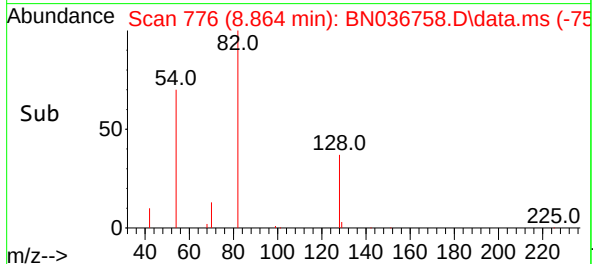
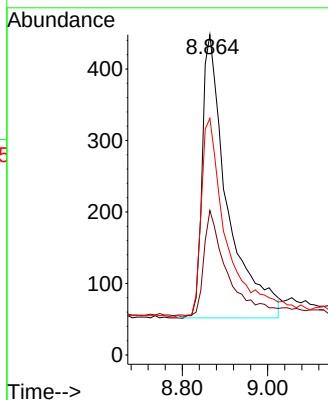
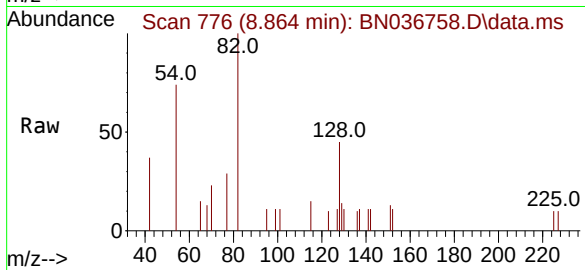




#8
Nitrobenzene-d5
Concen: 0.312 ng
RT: 8.864 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

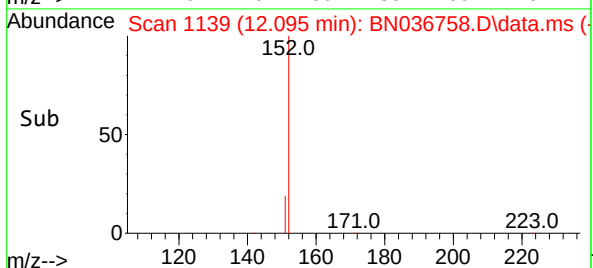
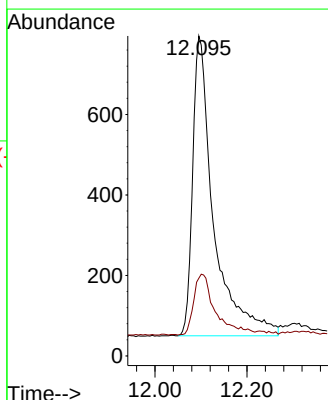
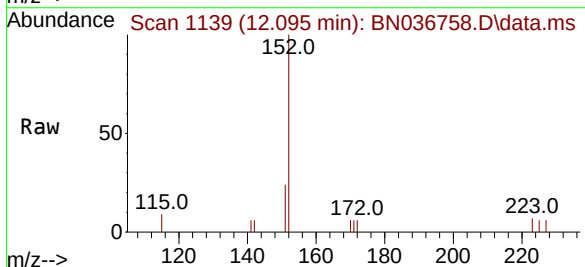
Instrument :
BNA_N
ClientSampleId :
PB167269BL

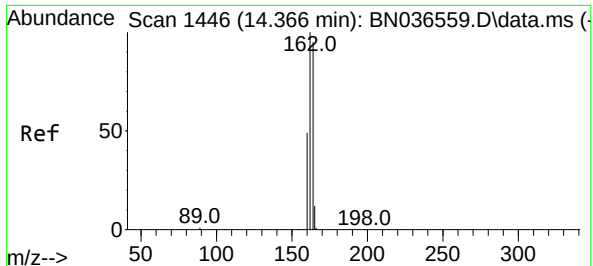
Tgt Ion: 82 Resp: 1610
Ion Ratio Lower Upper
82 100
128 45.1 30.6 45.8
54 73.9 52.2 78.4



#11
2-Methylnaphthalene-d10
Concen: 0.334 ng
RT: 12.095 min Scan# 1139
Delta R.T. -0.015 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Tgt Ion: 152 Resp: 2360
Ion Ratio Lower Upper
152 100
151 20.8 17.0 25.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.345 min Scan# 1444

Delta R.T. -0.021 min

Lab File: BN036758.D

Acq: 28 Mar 2025 04:22

Instrument :

BNA_N

ClientSampleId :

PB167269BL

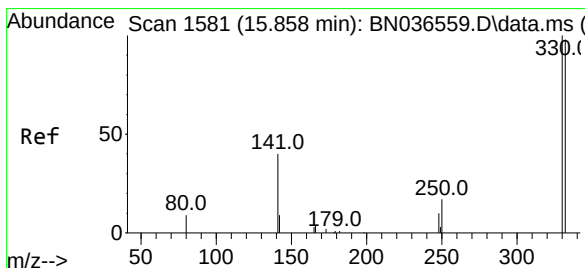
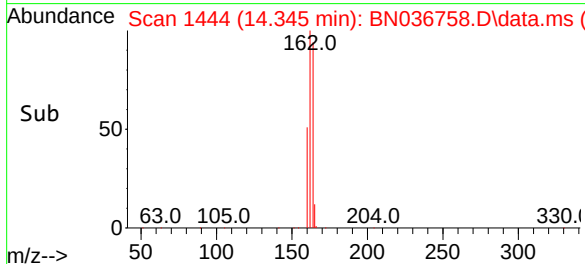
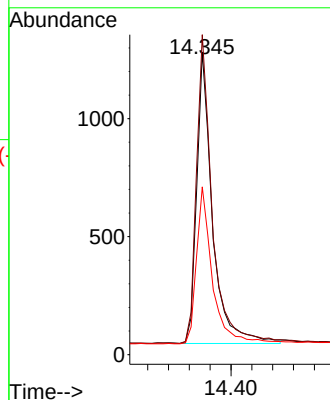
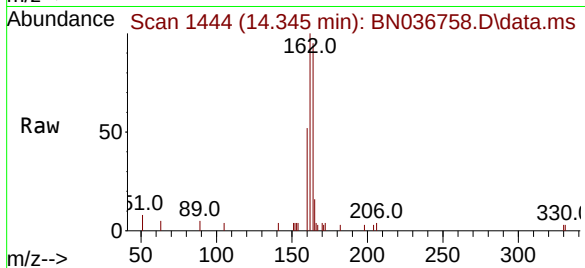
Tgt Ion:164 Resp: 2602

Ion Ratio Lower Upper

164 100

162 105.7 84.2 126.2

160 55.4 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.361 ng

RT: 15.857 min Scan# 1581

Delta R.T. -0.000 min

Lab File: BN036758.D

Acq: 28 Mar 2025 04:22

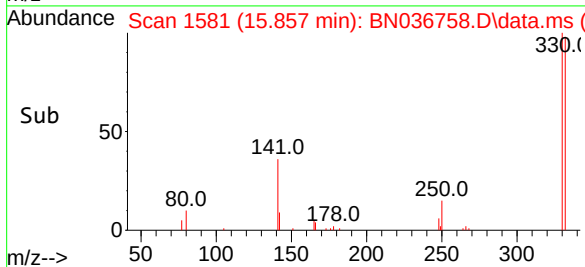
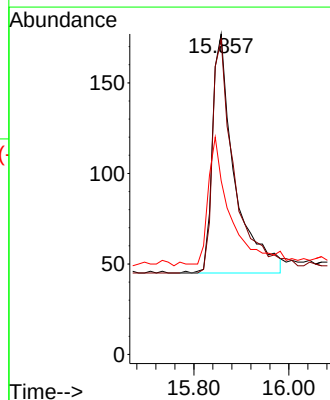
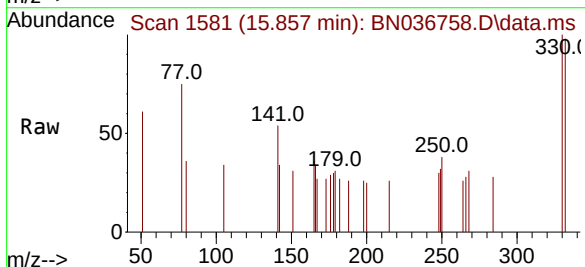
Tgt Ion:330 Resp: 426

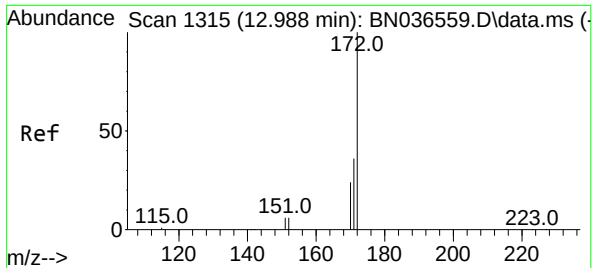
Ion Ratio Lower Upper

330 100

332 96.9 75.2 112.8

141 50.7 43.4 65.2

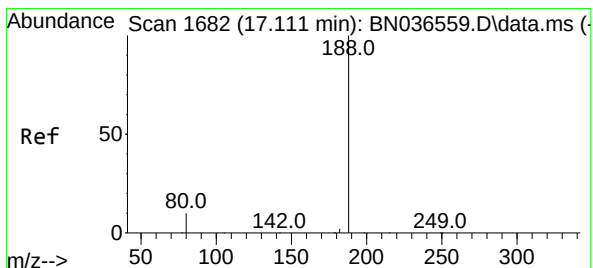
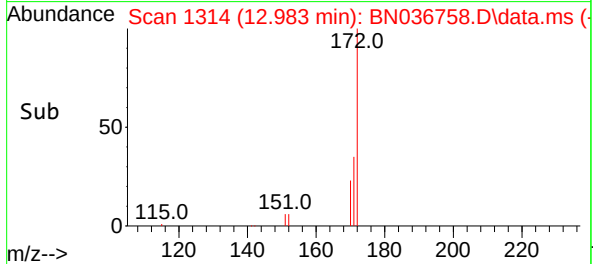
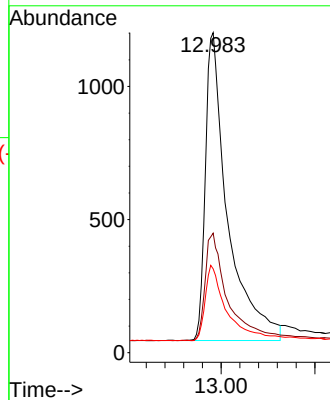
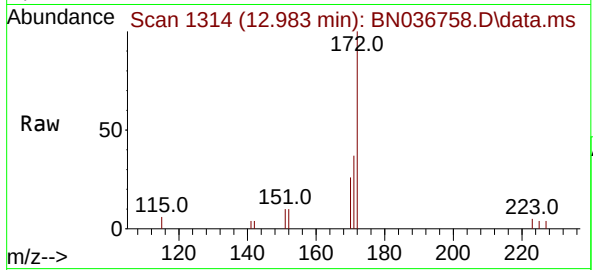




#15
2-Fluorobiphenyl
Concen: 0.292 ng
RT: 12.983 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

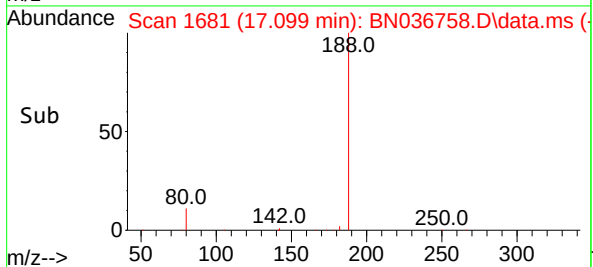
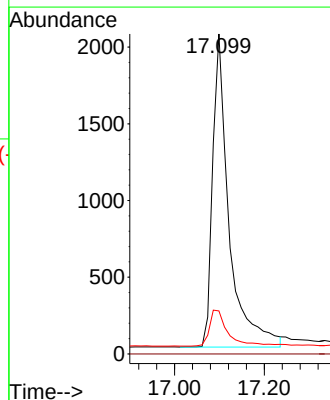
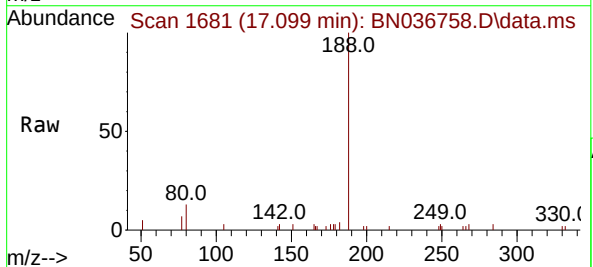
Instrument :
BNA_N
ClientSampleId :
PB167269BL

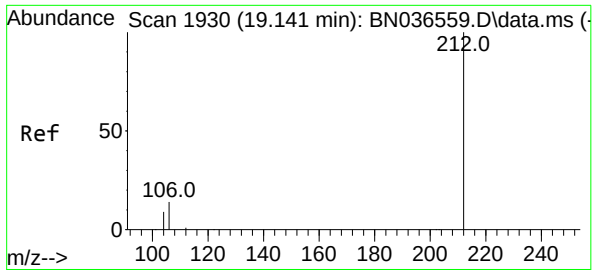
Tgt Ion:172 Resp: 4427
Ion Ratio Lower Upper
172 100
171 37.4 29.5 44.3
170 26.2 20.2 30.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.099 min Scan# 1681
Delta R.T. -0.012 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Tgt Ion:188 Resp: 5169
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.4 8.8 13.2#

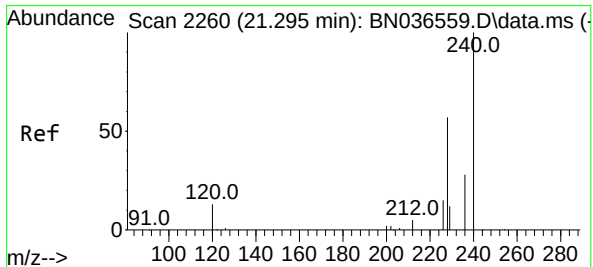
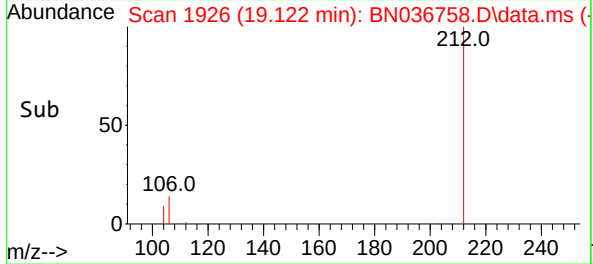
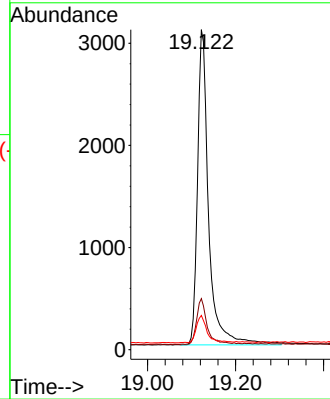
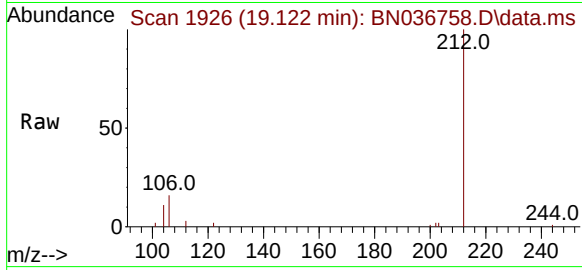




#27
Fluoranthene-d10
Concen: 0.409 ng
RT: 19.122 min Scan# 19
Delta R.T. -0.019 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

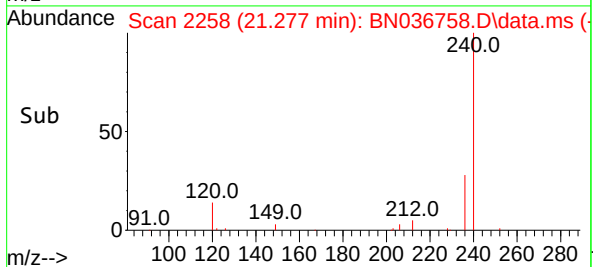
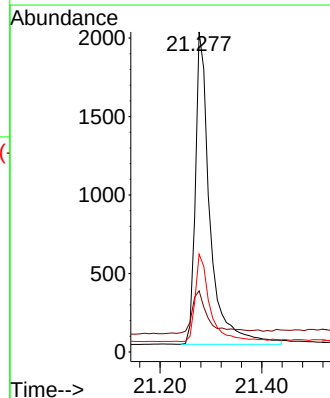
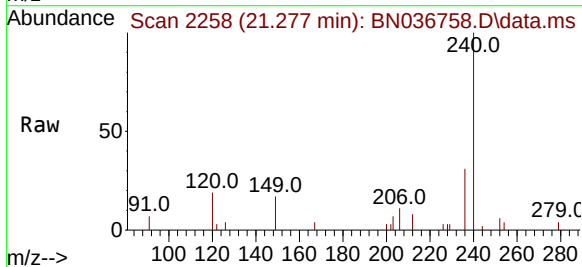
Instrument :
BNA_N
ClientSampleId :
PB167269BL

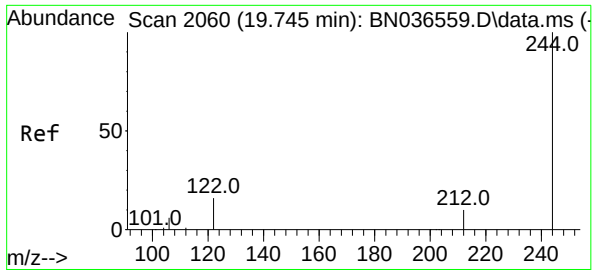
Tgt Ion:212 Resp: 5420
Ion Ratio Lower Upper
212 100
106 13.5 11.8 17.6
104 8.5 7.3 10.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Tgt Ion:240 Resp: 3967
Ion Ratio Lower Upper
240 100
120 19.1 14.6 22.0
236 30.6 24.1 36.1

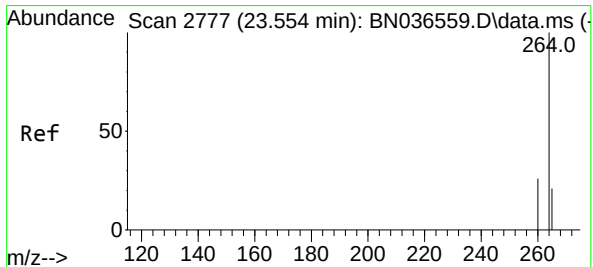
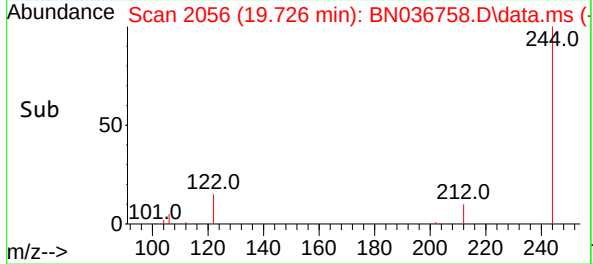
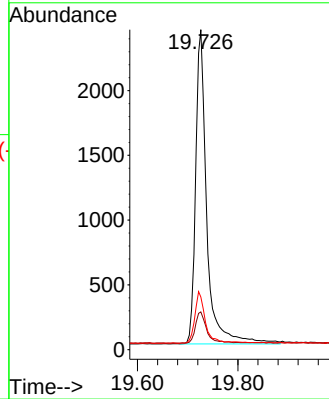
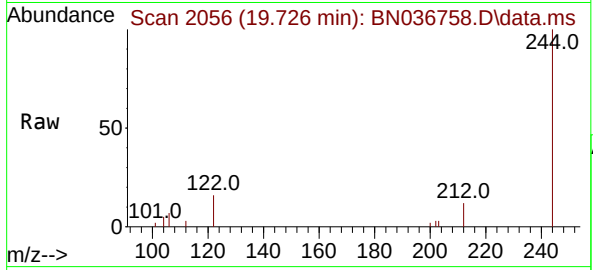




#31
Terphenyl-d14
Concen: 0.392 ng
RT: 19.726 min Scan# 2060
Delta R.T. -0.019 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

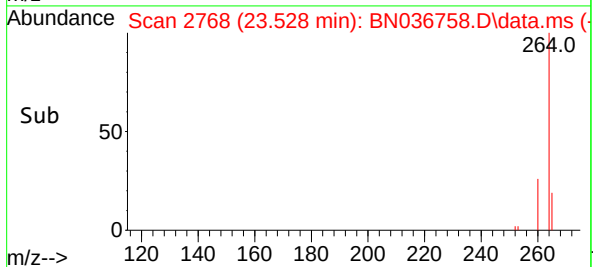
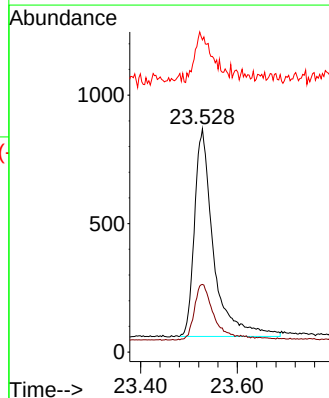
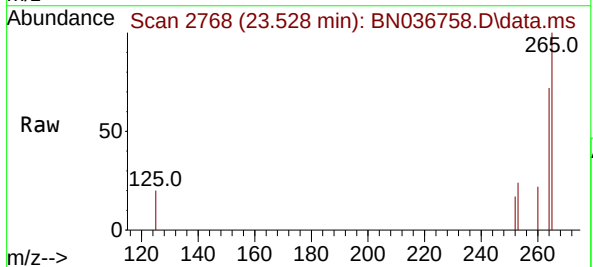
Instrument :
BNA_N
ClientSampleId :
PB167269BL

Tgt Ion:244 Resp: 3725
Ion Ratio Lower Upper
244 100
212 11.8 9.6 14.4
122 16.4 13.9 20.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.528 min Scan# 2768
Delta R.T. -0.026 min
Lab File: BN036758.D
Acq: 28 Mar 2025 04:22

Tgt Ion:264 Resp: 2206
Ion Ratio Lower Upper
264 100
260 30.3 22.6 33.8
265 139.8 88.1 132.1#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage - RW7B CTO WE13 112G08005	Date Received:	
Client Sample ID:	PB167269BS	SDG No.:	Q1620
Lab Sample ID:	PB167269BS	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
BN036806.D	1	03/24/25 08:15	03/29/25 11:45	PB167269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.38		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		101%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.46	*	53 - 106		115%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1850	7.696				
1146-65-2	Naphthalene-d8	4670	10.477				
15067-26-2	Acenaphthene-d10	2570	14.334				
1517-22-2	Phenanthrene-d10	5010	17.087				
1719-03-5	Chrysene-d12	3220	21.277				
1520-96-3	Perylene-d12	1390	23.516				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
 Data File : BN036806.D
 Acq On : 29 Mar 2025 11:45
 Operator : RC/JU
 Sample : PB167269BS
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167269BS

Quant Time: Mar 31 02:00:49 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

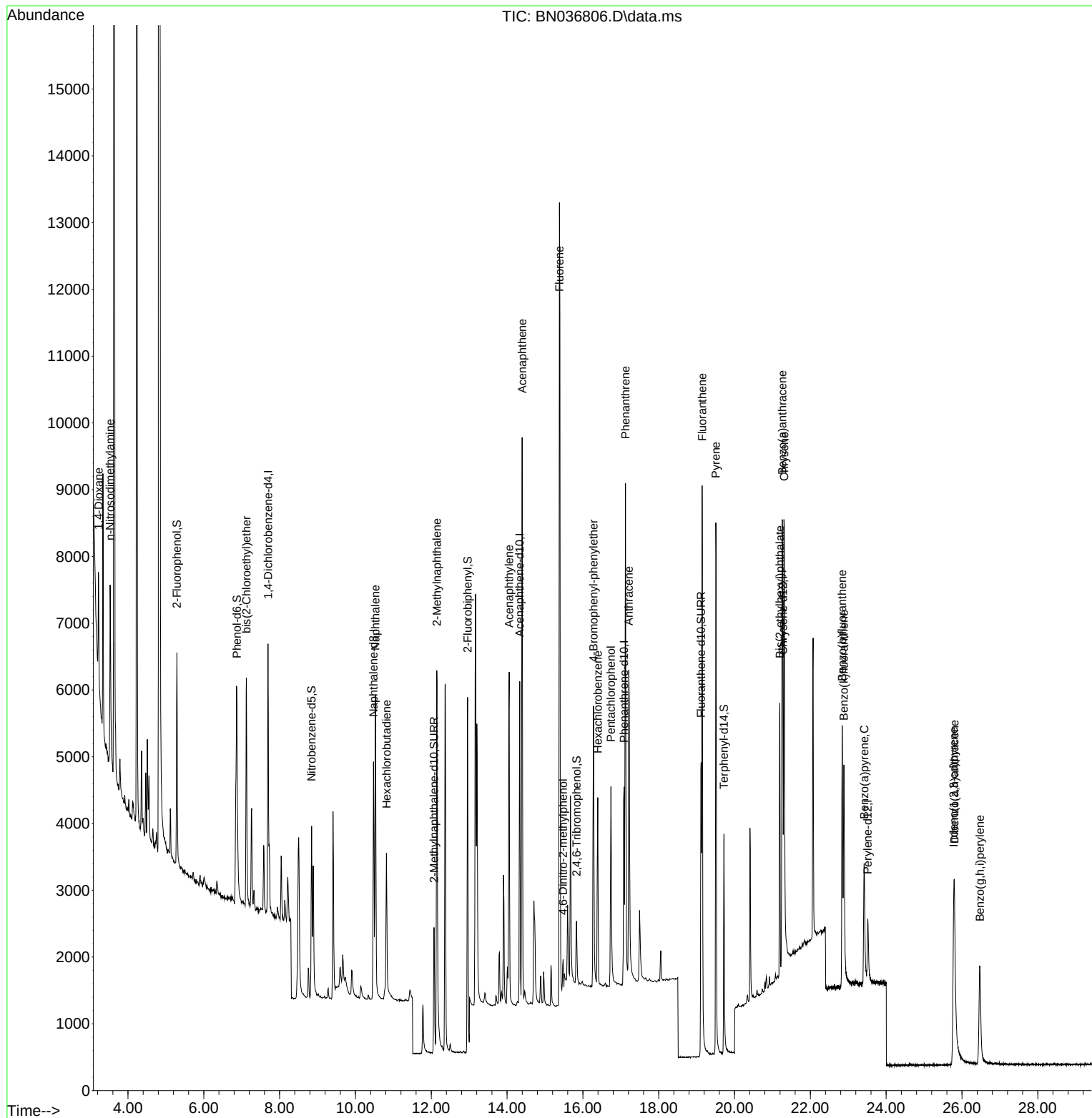
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1846	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	4665	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	2569	0.400	ng	-0.03
19) Phenanthrene-d10	17.087	188	5013	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3219	0.400	ng	#-0.02
35) Perylene-d12	23.516	264	1389	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	2250	0.523	ng	-0.02
5) Phenol-d6	6.872	99	2724	0.513	ng	-0.03
8) Nitrobenzene-d5	8.843	82	2129	0.420	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2800	0.404	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	579	0.497	ng	-0.02
15) 2-Fluorobiphenyl	12.958	172	6897	0.461	ng	-0.03
27) Fluoranthene-d10	19.118	212	5761	0.448	ng	-0.02
31) Terphenyl-d14	19.722	244	3774	0.489	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.225	88	783	0.382	ng	# 17
3) n-Nitrosodimethylamine	3.528	42	2291	0.553	ng	# 90
6) bis(2-Chloroethyl)ether	7.125	93	2493	0.454	ng	96
9) Naphthalene	10.530	128	6375	0.465	ng	99
10) Hexachlorobutadiene	10.819	225	1506	0.466	ng	# 99
12) 2-Methylnaphthalene	12.146	142	4161	0.477	ng	98
16) Acenaphthylene	14.056	152	5803	0.479	ng	100
17) Acenaphthene	14.398	154	3970	0.500	ng	100
18) Fluorene	15.382	166	5559	0.518	ng	97
20) 4,6-Dinitro-2-methylph...	15.478	198	574	0.592	ng	# 65
21) 4-Bromophenyl-phenylether	16.280	248	1618	0.515	ng	93
22) Hexachlorobenzene	16.391	284	1869	0.493	ng	95
24) Pentachlorophenol	16.739	266	1681	0.972	ng	99
25) Phenanthrene	17.124	178	7972	0.530	ng	99
26) Anthracene	17.211	178	7103	0.523	ng	99
28) Fluoranthene	19.146	202	8378	0.496	ng	98
30) Pyrene	19.508	202	7829	0.497	ng	100
32) Benzo(a)anthracene	21.259	228	5730	0.512	ng	99
33) Chrysene	21.313	228	7035	0.575	ng	100
34) Bis(2-ethylhexyl)phtha...	21.196	149	4222	0.530	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.782	276	4352	0.868	ng	# 82
37) Benzo(b)fluoranthene	22.841	252	5186	1.026	ng	# 92
38) Benzo(k)fluoranthene	22.885	252	5229	0.986	ng	# 94
39) Benzo(a)pyrene	23.420	252	3277	0.770	ng	95
40) Dibenzo(a,h)anthracene	25.800	278	3999	1.025	ng	94
41) Benzo(g,h,i)perylene	26.472	276	3464	0.776	ng	97

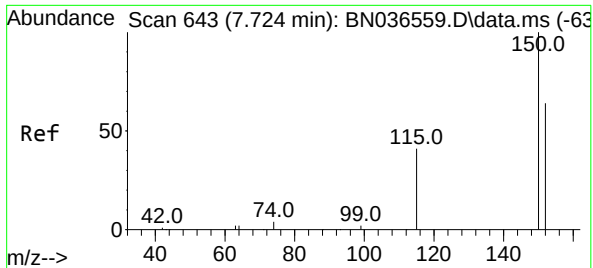
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036806.D
Acq On : 29 Mar 2025 11:45
Operator : RC/JU
Sample : PB167269BS
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167269BS

Quant Time: Mar 31 02:00:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

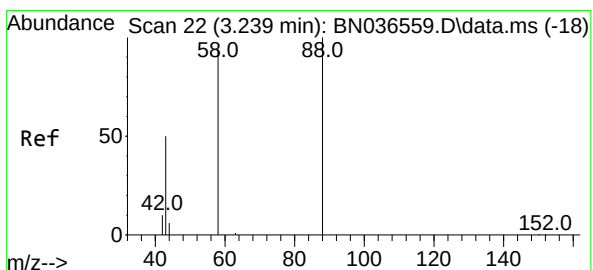
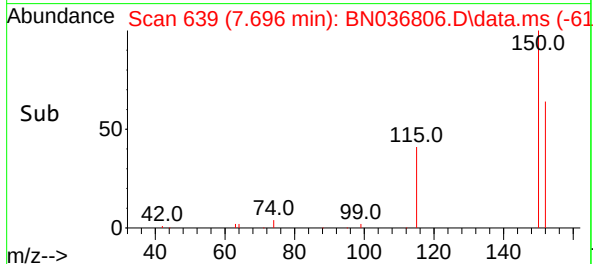
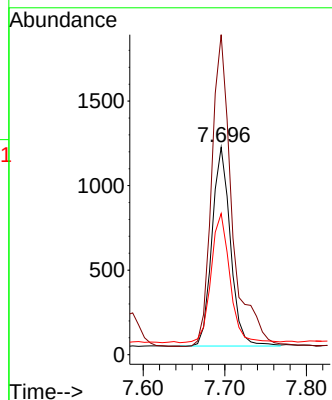
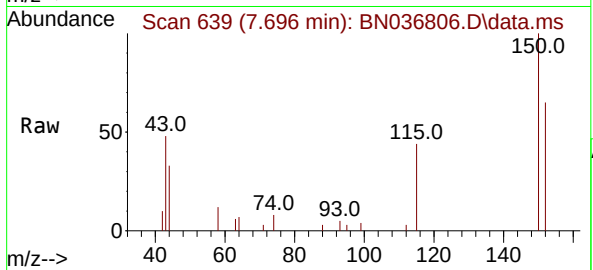




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 61
Delta R.T. -0.028 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

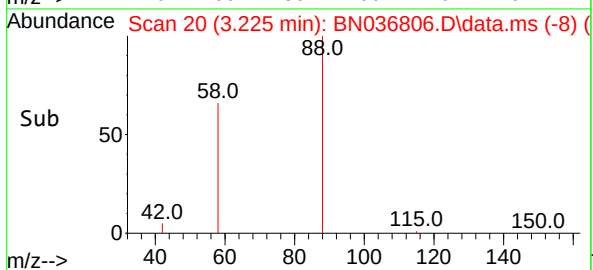
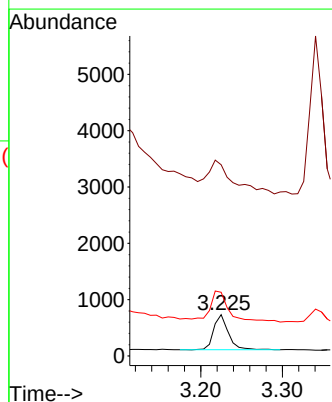
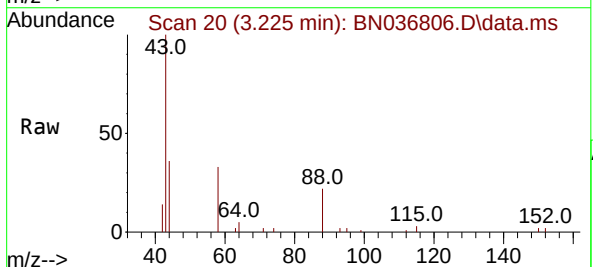
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ClientSampleId :
PB167269BS

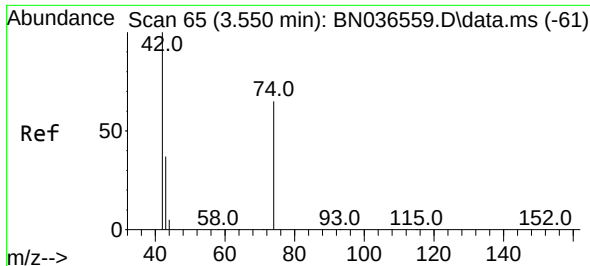
Tgt Ion:152 Resp: 1846
Ion Ratio Lower Upper
152 100
150 154.3 123.7 185.5
115 68.1 54.3 81.5



#2
1,4-Dioxane
Concen: 0.382 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion: 88 Resp: 783
Ion Ratio Lower Upper
88 100
43 163.5 37.8 56.8#
58 113.8 67.4 101.2#

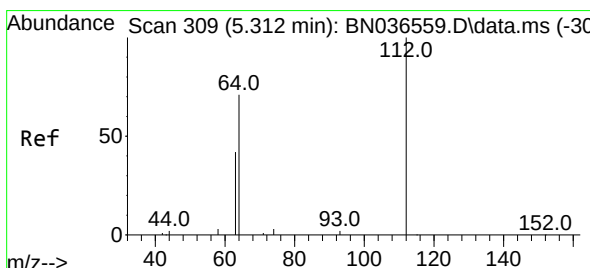
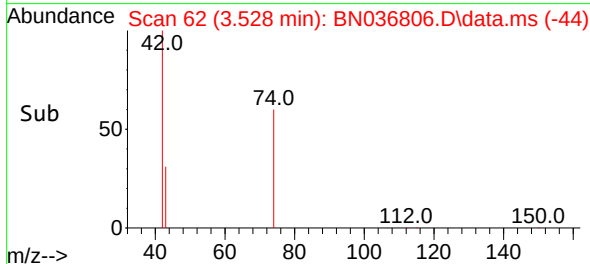
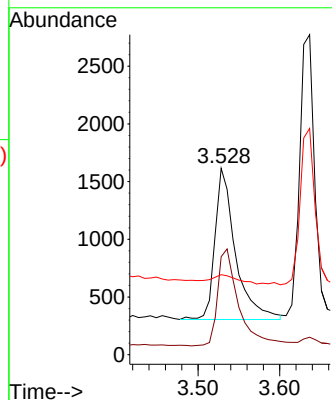
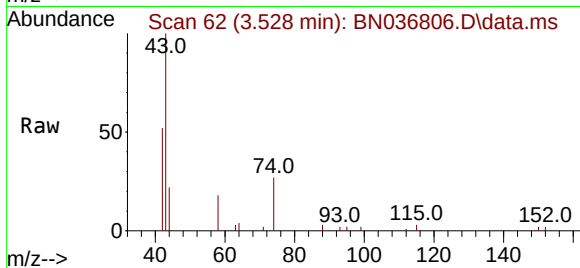




#3
n-Nitrosodimethylamine
Concen: 0.553 ng
RT: 3.528 min Scan# 61
Delta R.T. -0.022 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

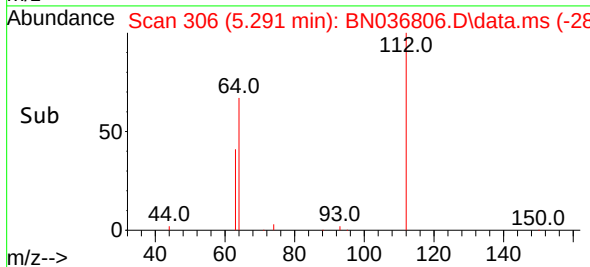
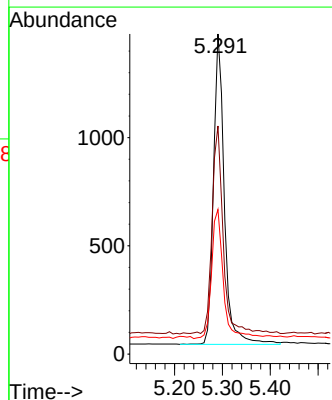
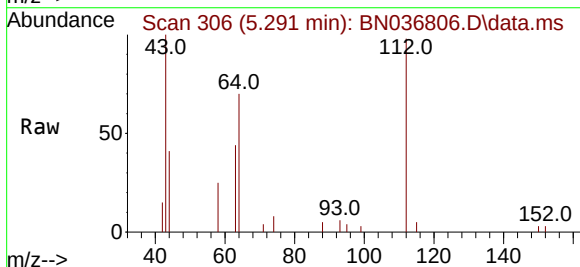
Instrument :
BNA_N
ClientSampleId :
PB167269BS

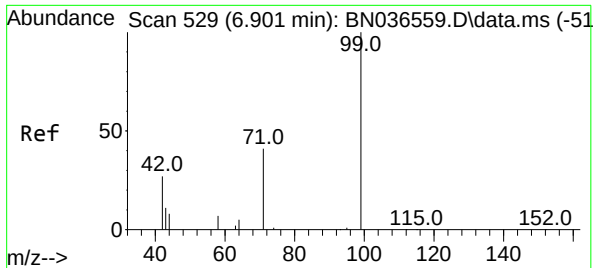
Tgt Ion: 42 Resp: 2291
Ion Ratio Lower Upper
42 100
74 66.4 60.6 90.8
44 9.8 6.3 9.5#



#4
2-Fluorophenol
Concen: 0.523 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion: 112 Resp: 2250
Ion Ratio Lower Upper
112 100
64 69.4 53.1 79.7
63 45.2 31.8 47.8

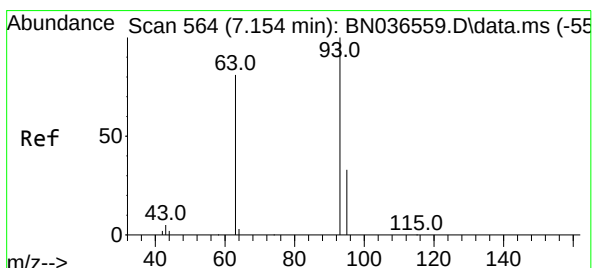
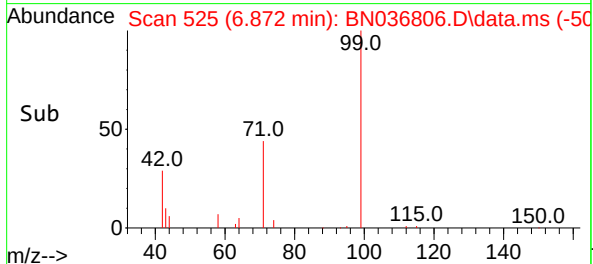
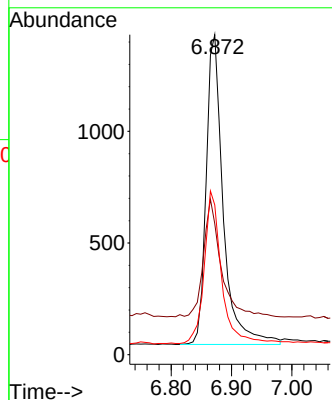
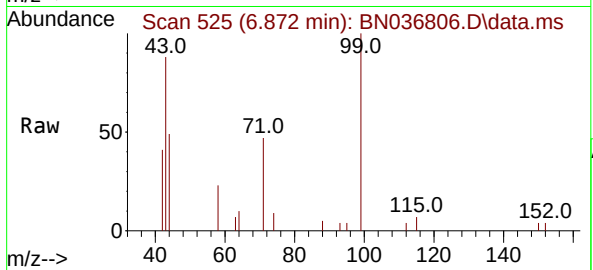




#5
Phenol-d6
Concen: 0.513 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.029 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

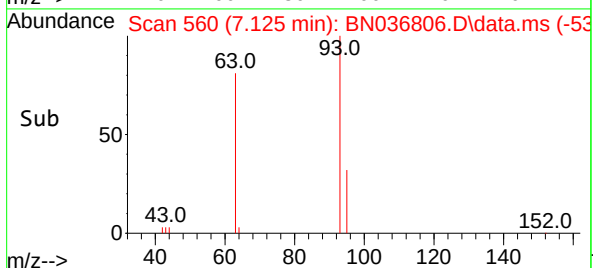
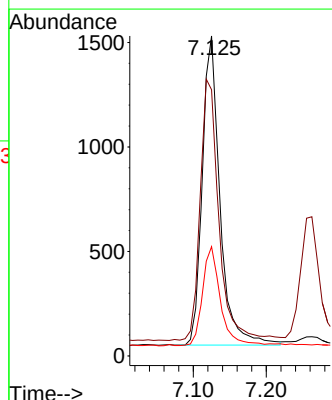
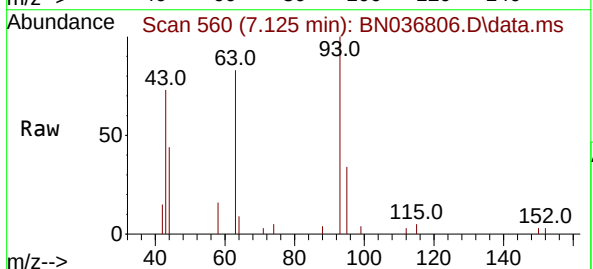
Instrument :
BNA_N
ClientSampleId :
PB167269BS

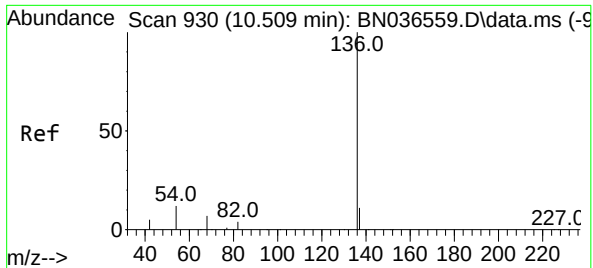
Tgt Ion: 99 Resp: 2724
Ion Ratio Lower Upper
99 100
42 39.3 26.5 39.7
71 50.7 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.454 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion: 93 Resp: 2493
Ion Ratio Lower Upper
93 100
63 88.8 67.7 101.5
95 32.9 25.6 38.4

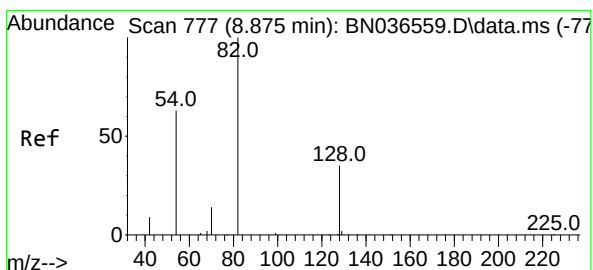
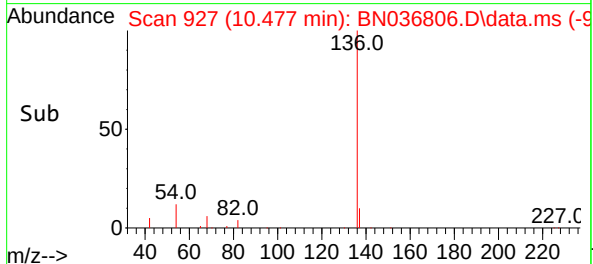
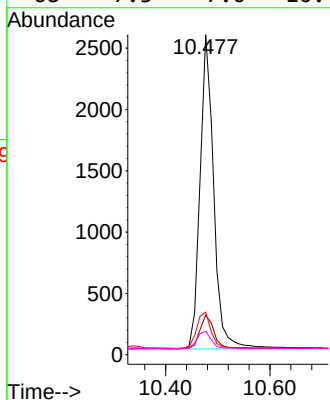
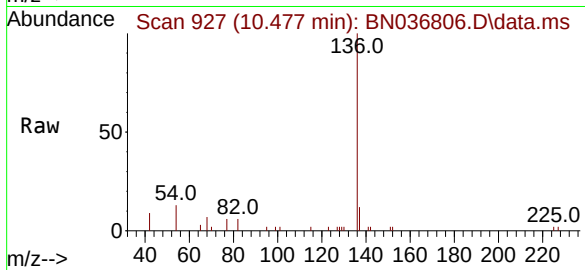




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

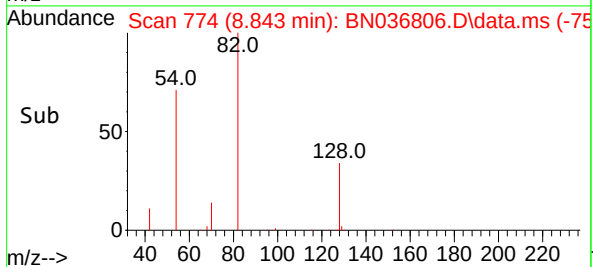
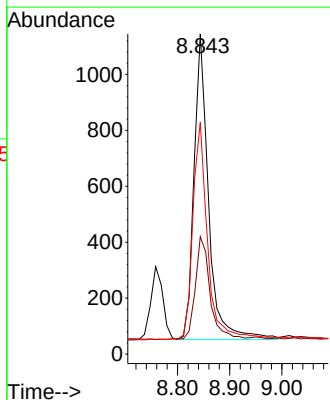
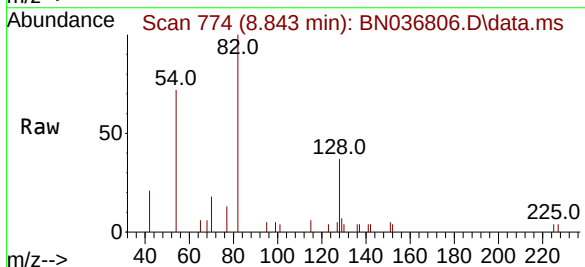
Instrument :
BNA_N
ClientSampleId :
PB167269BS

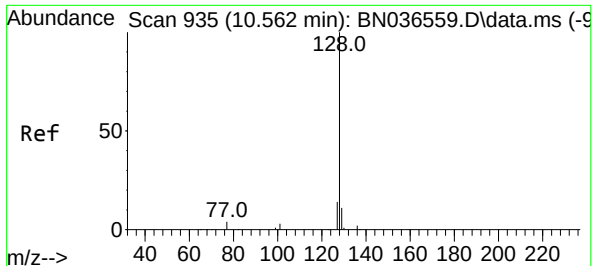
Tgt Ion:	136	Resp:	4665
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	13.3	11.5	17.3
68	7.3	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.420 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:	82	Resp:	2129
Ion	Ratio	Lower	Upper
82	100		
128	36.7	30.6	45.8
54	72.4	52.2	78.4

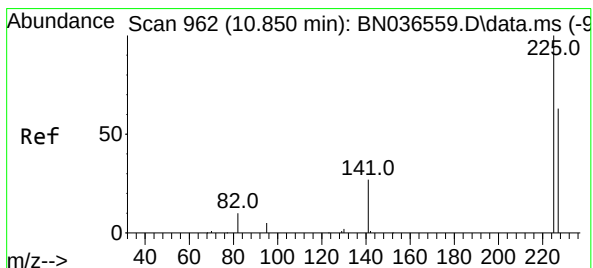
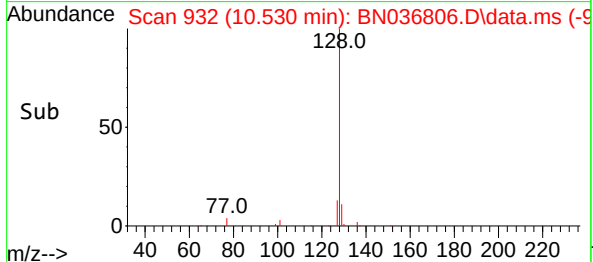
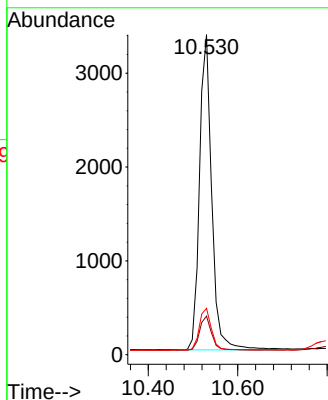
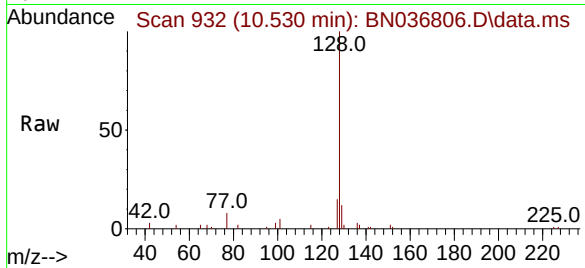




#9
Naphthalene
Concen: 0.465 ng
RT: 10.530 min Scan# 911
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

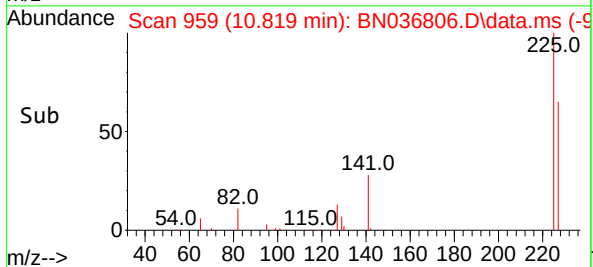
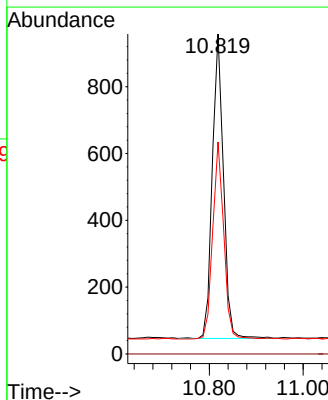
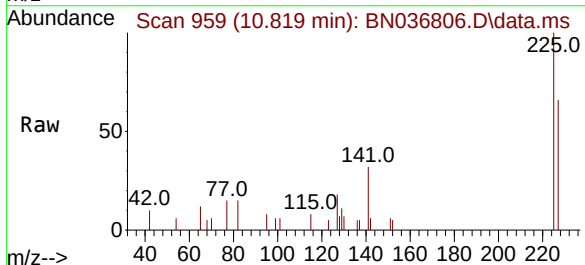
Instrument :
BNA_N
ClientSampleId :
PB167269BS

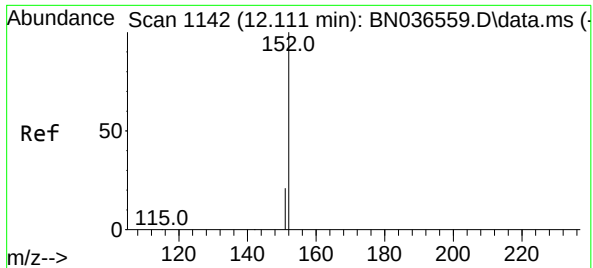
Tgt Ion	128	129	127
Resp:	6375		
Ion Ratio	100	12.1	14.5
Lower		9.8	11.8
Upper		14.6	17.8



#10
Hexachlorobutadiene
Concen: 0.466 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion	225	223	227
Resp:	1506		
Ion Ratio	100	0.0	63.8
Lower		0.0	51.8
Upper		0.0	77.8

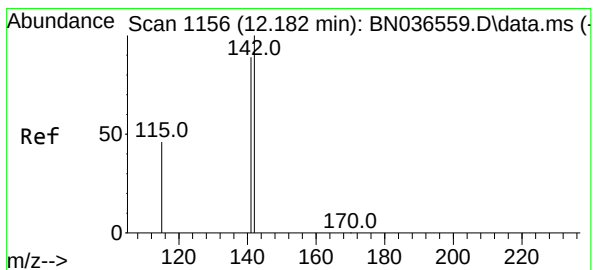
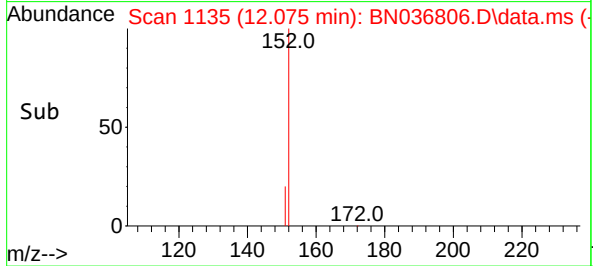
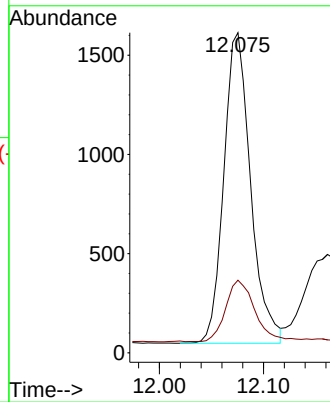
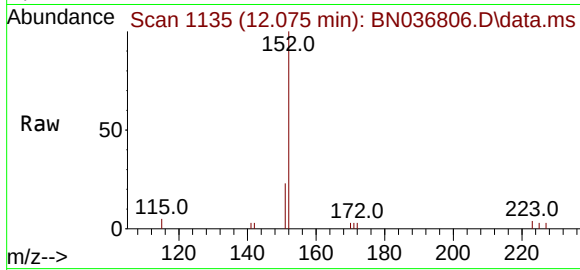




#11
2-Methylnaphthalene-d10
Concen: 0.404 ng
RT: 12.075 min Scan# 1149
Delta R.T. -0.035 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

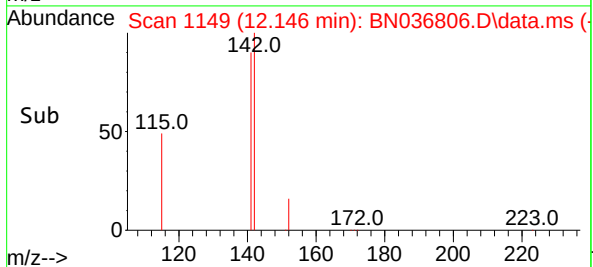
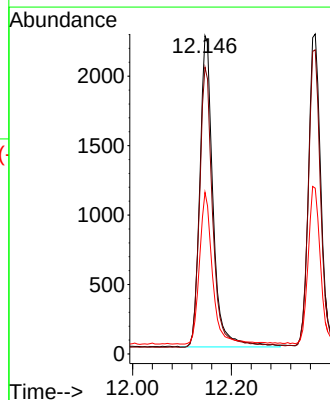
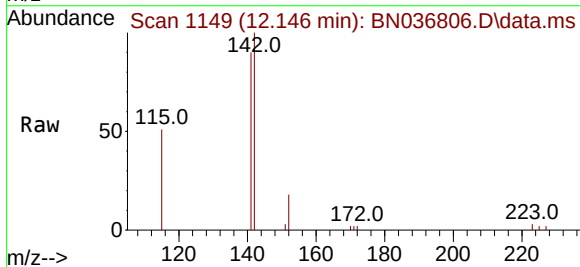
Instrument :
BNA_N
ClientSampleId :
PB167269BS

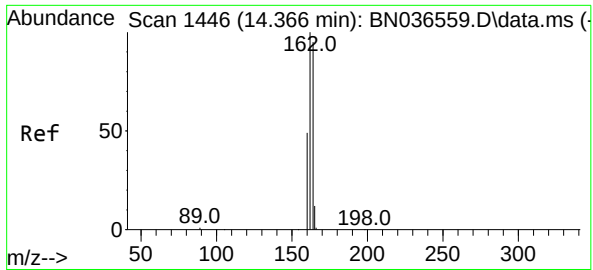
Tgt Ion:152 Resp: 2800
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.477 ng
RT: 12.146 min Scan# 1149
Delta R.T. -0.035 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:142 Resp: 4161
Ion Ratio Lower Upper
142 100
141 90.1 71.7 107.5
115 50.8 38.3 57.5

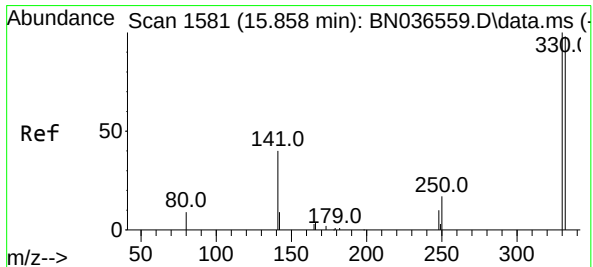
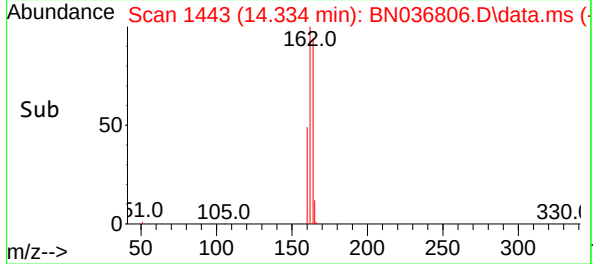
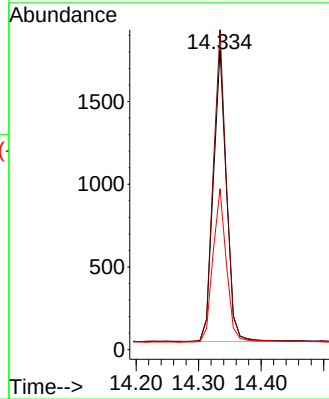
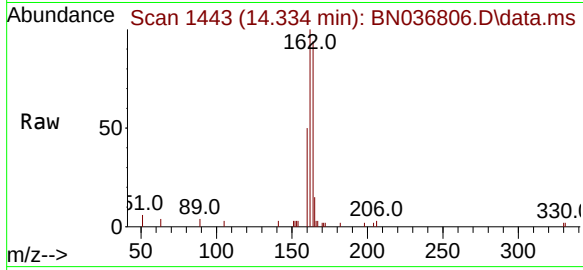




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1446
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

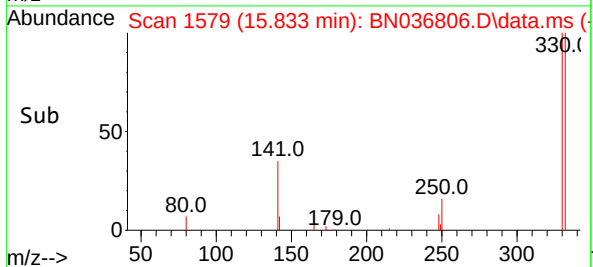
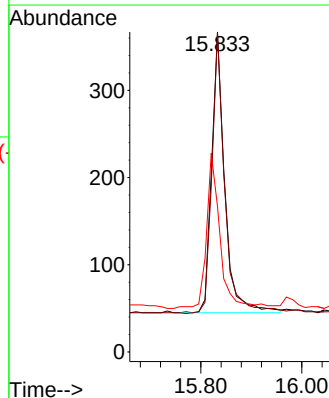
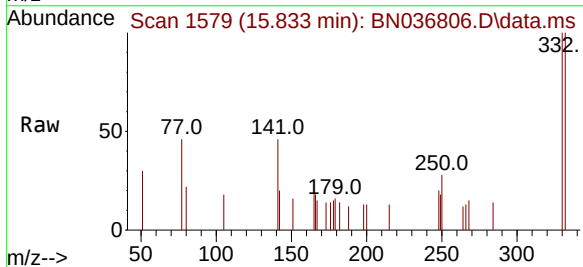
Instrument :
BNA_N
ClientSampleId :
PB167269BS

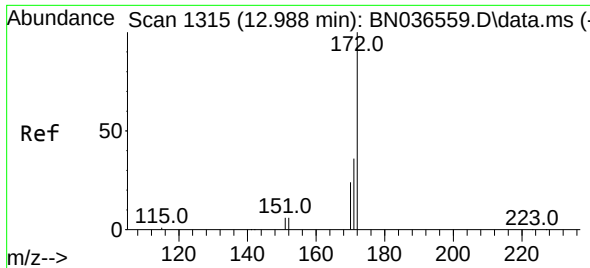
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.6	84.2	126.2
160	53.6	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.497 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion	Ratio	Lower	Upper
330	100		
332	99.1	75.2	112.8
141	57.2	43.4	65.2

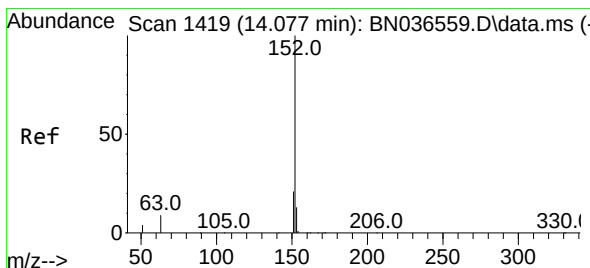
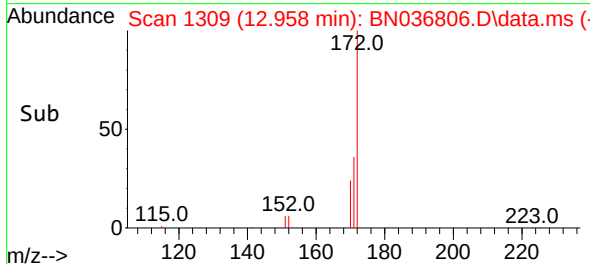
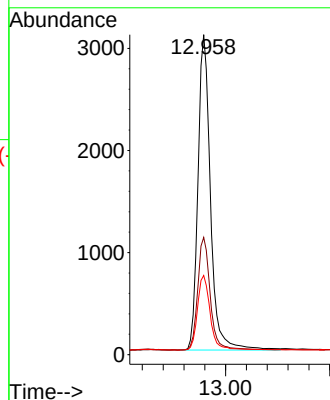
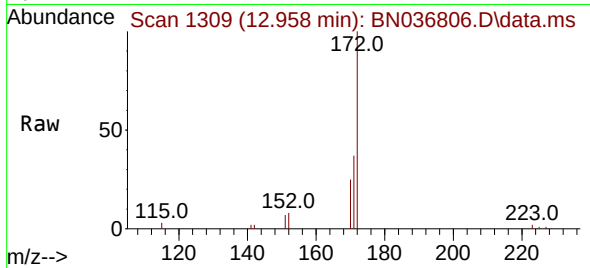




#15
2-Fluorobiphenyl
Concen: 0.461 ng
RT: 12.958 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

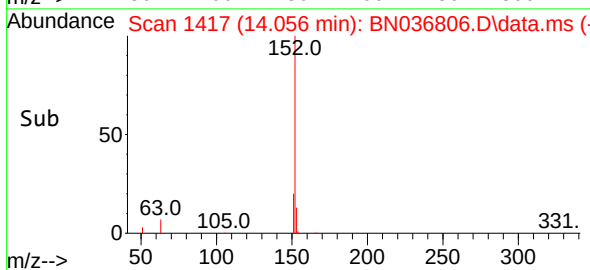
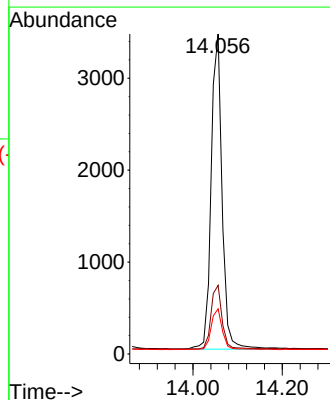
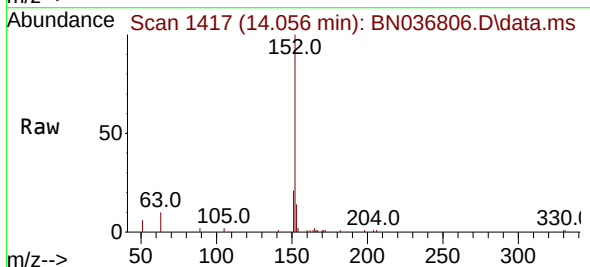
Instrument :
BNA_N
ClientSampleId :
PB167269BS

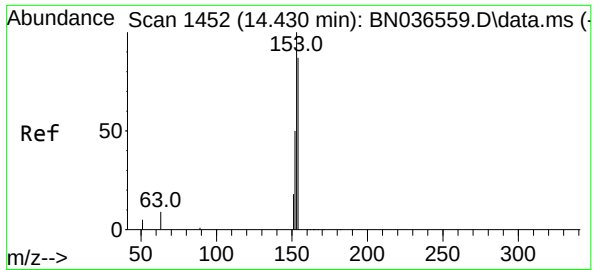
Tgt Ion:	172	Resp:	6897
Ion Ratio	Lower	Upper	
172	100		
171	36.7	29.5	44.3
170	24.7	20.2	30.4



#16
Acenaphthylene
Concen: 0.479 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:	152	Resp:	5803
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.2	24.4
153	13.4	10.6	15.8

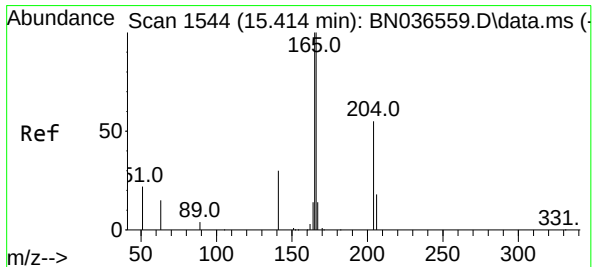
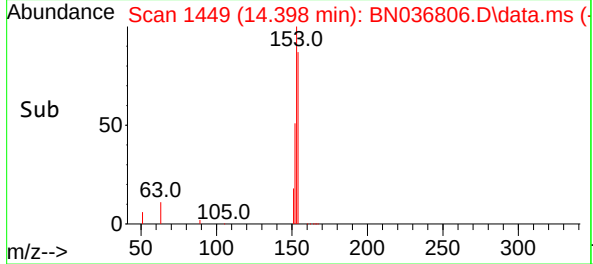
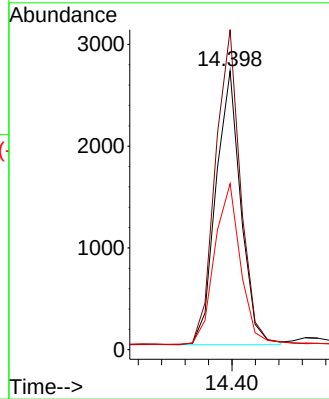
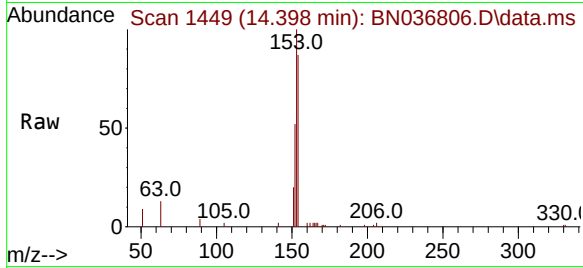




#17
Acenaphthene
Concen: 0.500 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

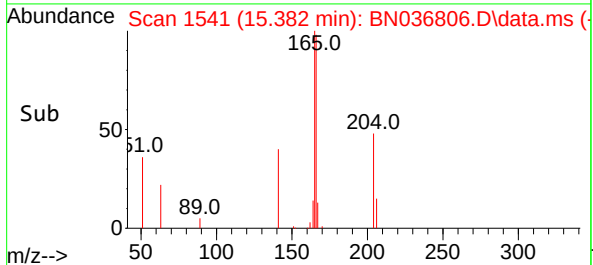
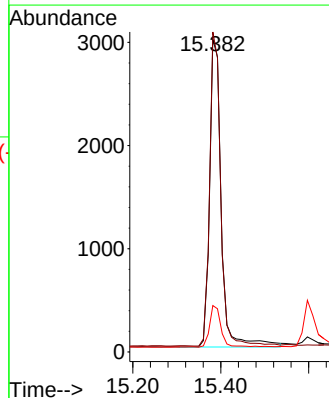
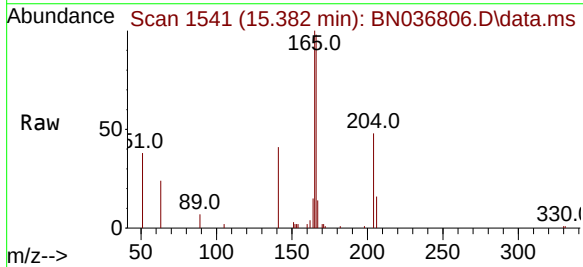
Instrument :
BNA_N
ClientSampleId :
PB167269BS

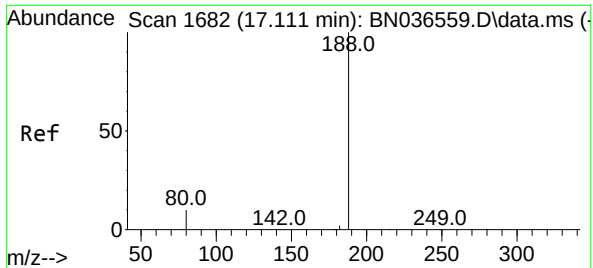
Tgt Ion:154 Resp: 3970
Ion Ratio Lower Upper
154 100
153 117.1 94.1 141.1
152 61.8 49.8 74.6



#18
Fluorene
Concen: 0.518 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:166 Resp: 5559
Ion Ratio Lower Upper
166 100
165 96.7 79.8 119.8
167 12.6 10.6 15.8

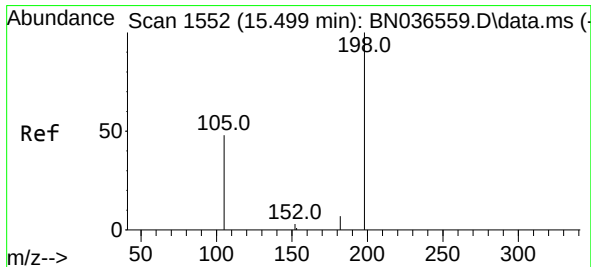
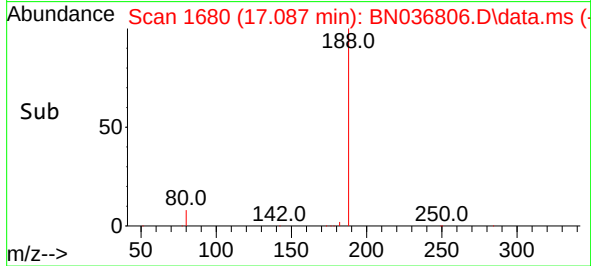
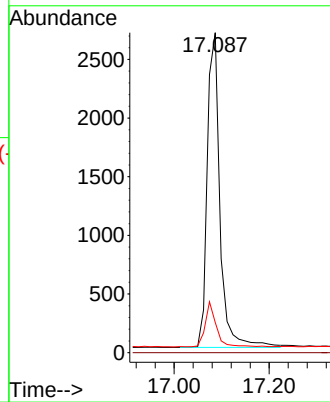
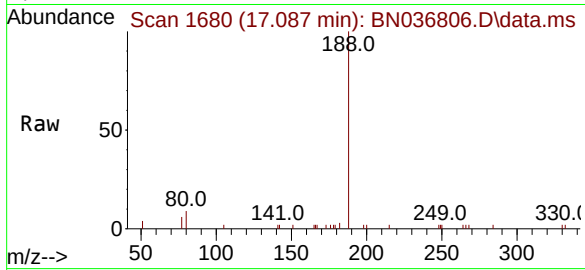




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

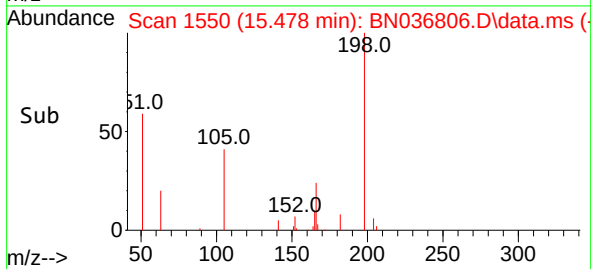
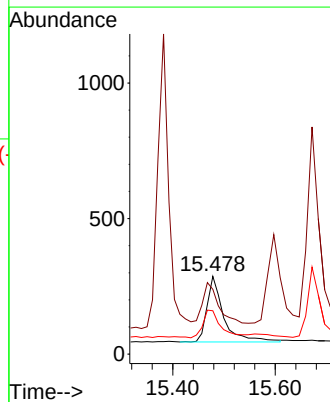
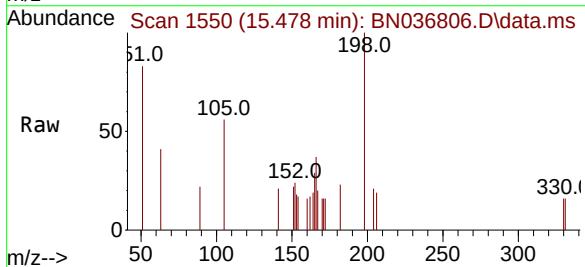
Instrument :
BNA_N
ClientSampleId :
PB167269BS

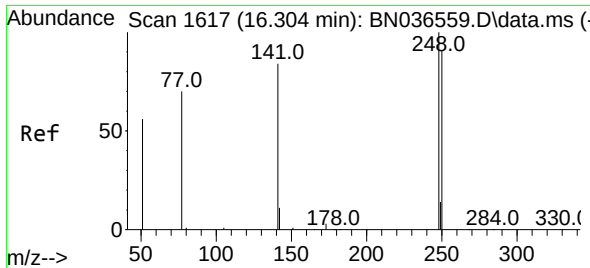
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.5	8.8	13.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.592 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion	Ratio	Lower	Upper
198	100		
51	83.3	107.9	161.9#
105	55.7	56.2	84.2#

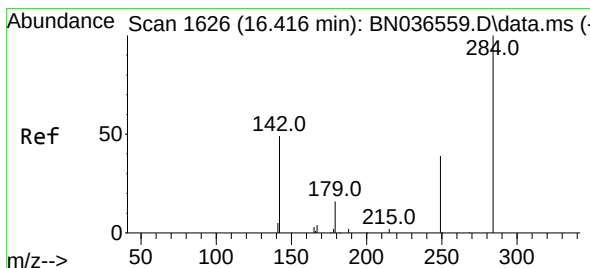
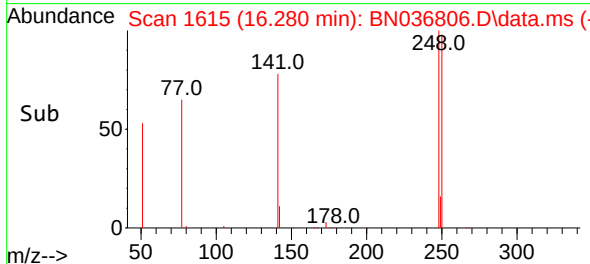
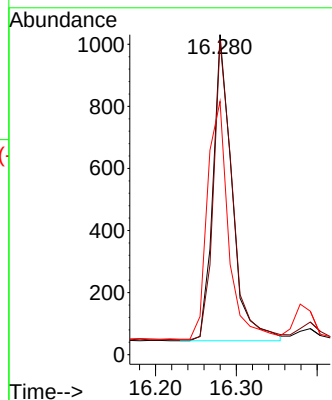
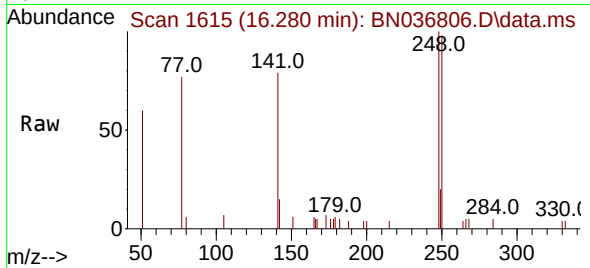




#21
4-Bromophenyl-phenylether
Concen: 0.515 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

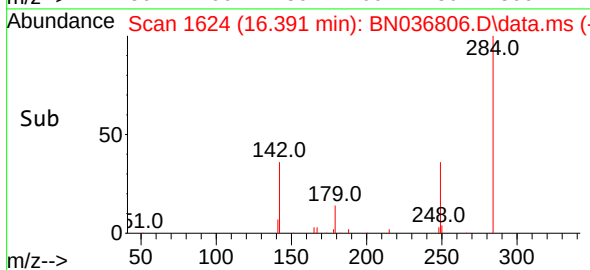
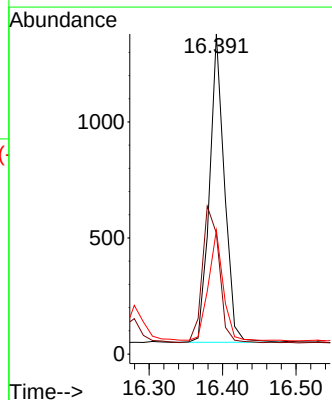
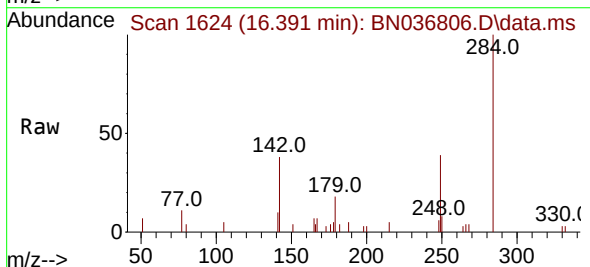
Instrument :
BNA_N
ClientSampleId :
PB167269BS

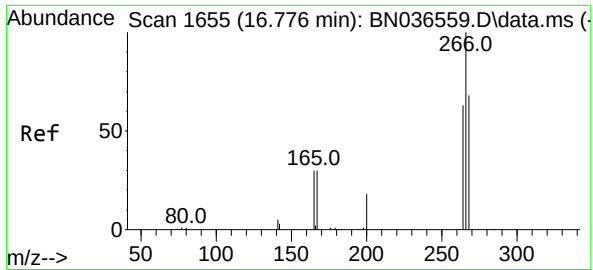
Tgt Ion:248 Resp: 1618
Ion Ratio Lower Upper
248 100
250 98.2 73.0 109.6
141 79.1 68.6 103.0



#22
Hexachlorobenzene
Concen: 0.493 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:284 Resp: 1869
Ion Ratio Lower Upper
284 100
142 50.5 37.0 55.4
249 36.4 28.1 42.1

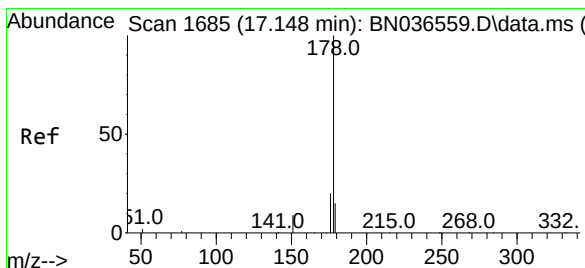
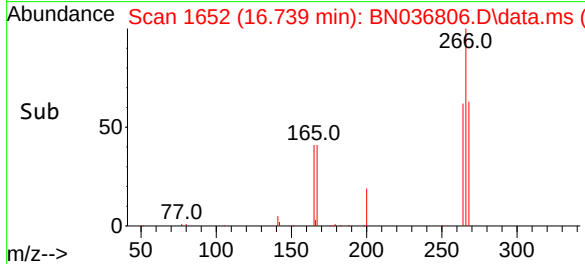
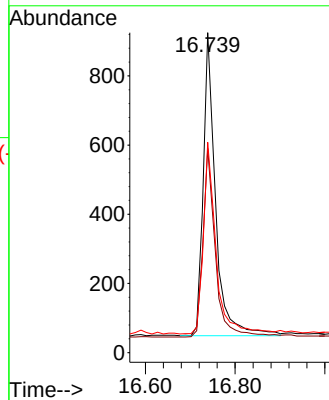
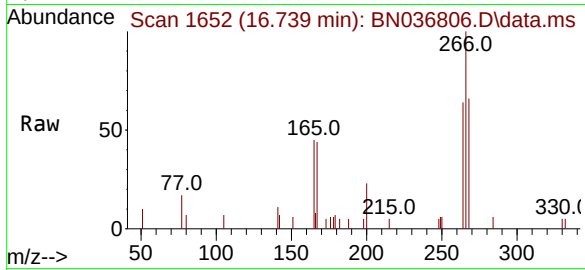




#24
Pentachlorophenol
Concen: 0.972 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

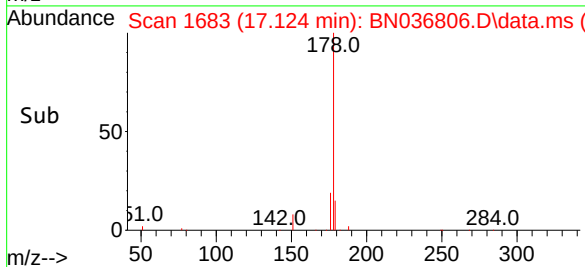
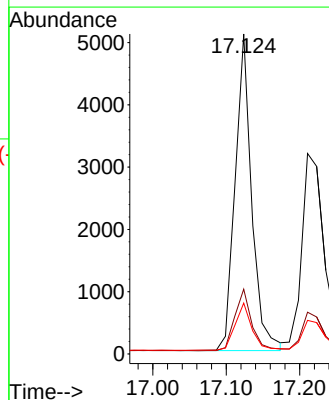
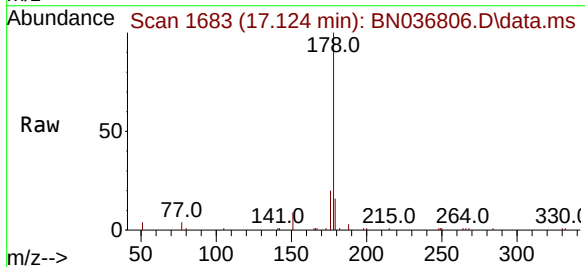
Instrument :
BNA_N
ClientSampleId :
PB167269BS

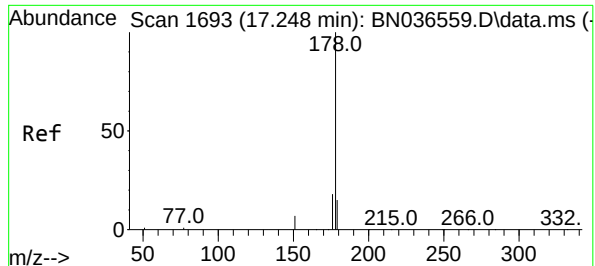
Tgt Ion:266 Resp: 1681
Ion Ratio Lower Upper
266 100
264 62.5 49.6 74.4
268 64.7 50.9 76.3



#25
Phenanthrene
Concen: 0.530 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.025 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:178 Resp: 7972
Ion Ratio Lower Upper
178 100
176 20.2 15.9 23.9
179 15.1 12.2 18.4





#26

Anthracene

Concen: 0.523 ng

RT: 17.211 min Scan# 1

Delta R.T. -0.037 min

Lab File: BN036806.D

Acq: 29 Mar 2025 11:45

Instrument :

BNA_N

ClientSampleId :

PB167269BS

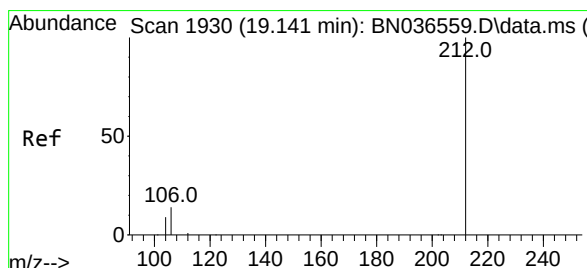
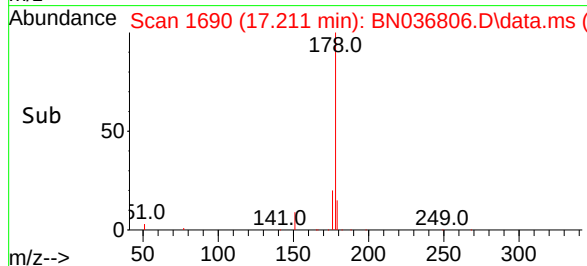
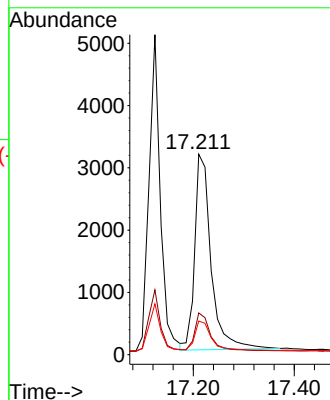
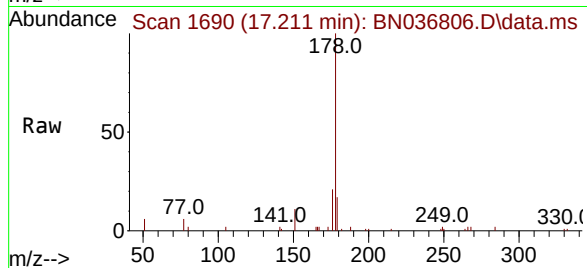
Tgt Ion:178 Resp: 7103

Ion Ratio Lower Upper

178 100

176 18.6 15.4 23.2

179 15.1 12.6 18.8



#27

Fluoranthene-d10

Concen: 0.448 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.023 min

Lab File: BN036806.D

Acq: 29 Mar 2025 11:45

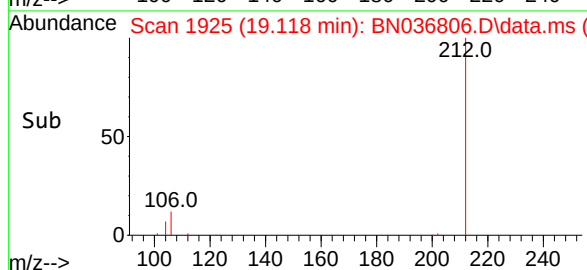
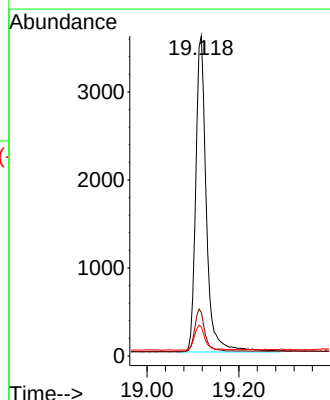
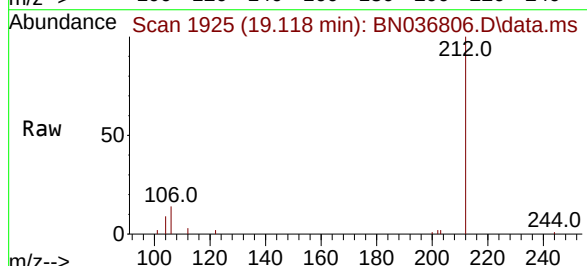
Tgt Ion:212 Resp: 5761

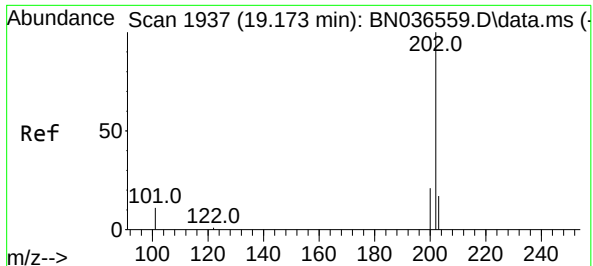
Ion Ratio Lower Upper

212 100

106 12.8 11.8 17.6

104 8.0 7.3 10.9

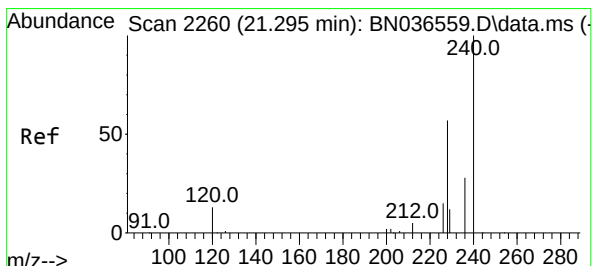
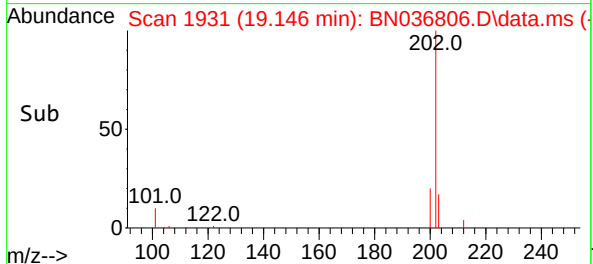
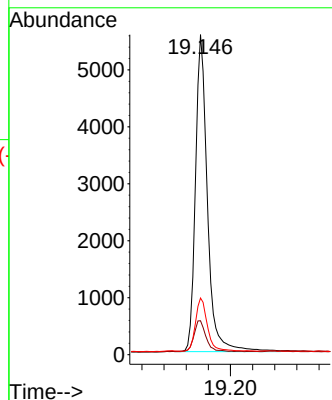
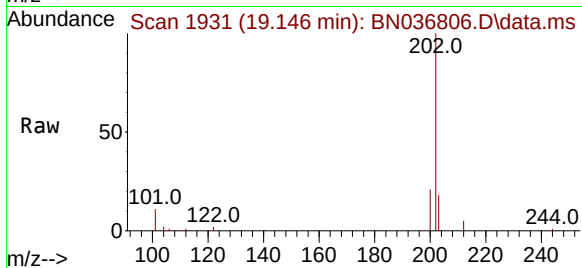




#28
Fluoranthene
Concen: 0.496 ng
RT: 19.146 min Scan# 1937
Delta R.T. -0.028 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

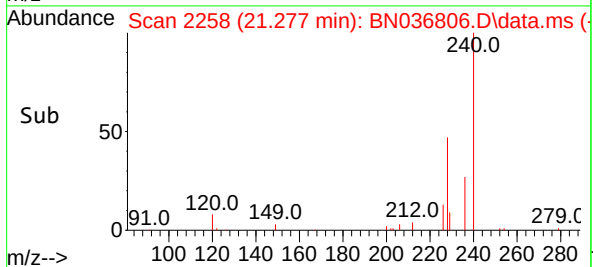
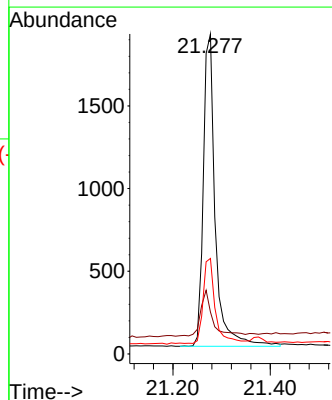
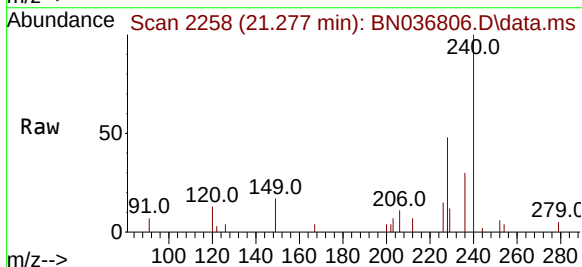
Instrument :
BNA_N
ClientSampleId :
PB167269BS

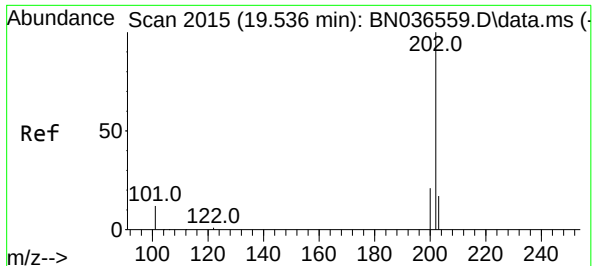
Tgt Ion:202 Resp: 8378
Ion Ratio Lower Upper
202 100
101 9.7 9.4 14.0
203 16.7 13.5 20.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:240 Resp: 3219
Ion Ratio Lower Upper
240 100
120 13.1 14.6 22.0#
236 29.9 24.1 36.1

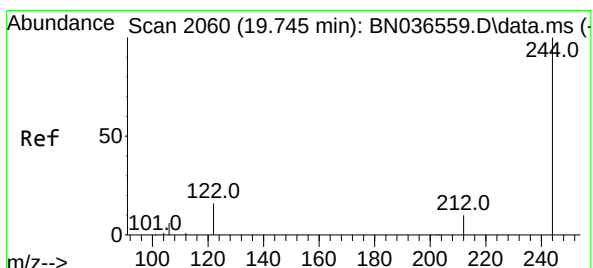
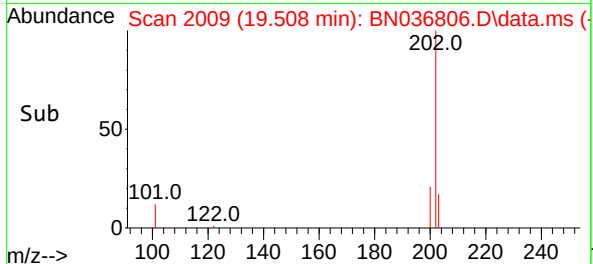
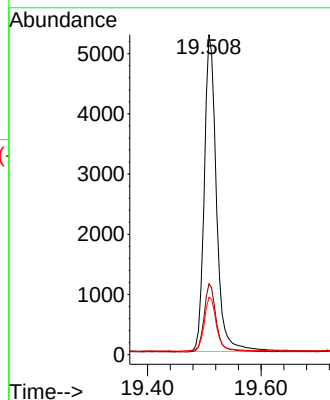
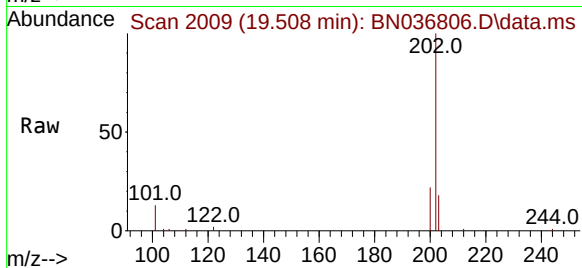




#30
Pyrene
Concen: 0.497 ng
RT: 19.508 min Scan# 2015
Delta R.T. -0.028 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

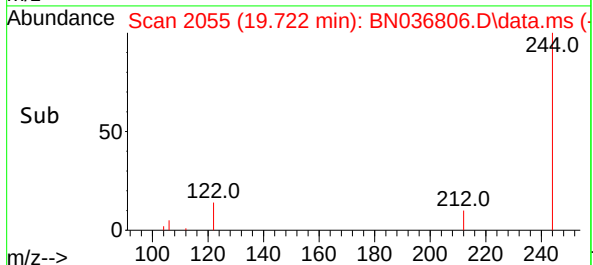
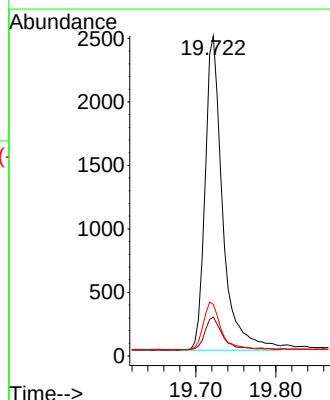
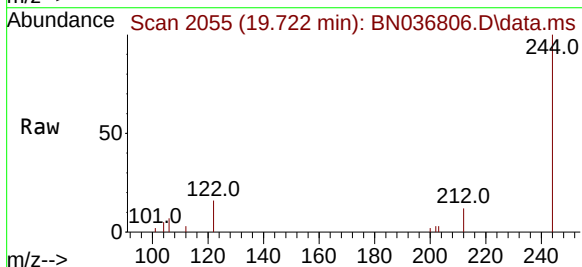
Instrument :
BNA_N
ClientSampleId :
PB167269BS

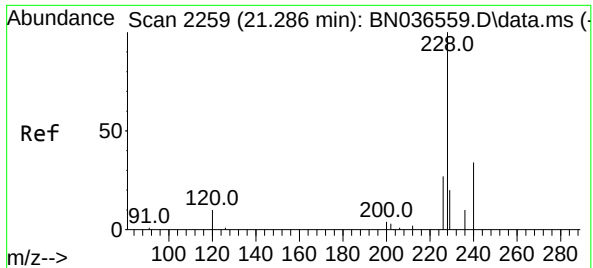
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.6	14.1	21.1



#31
Terphenyl-d14
Concen: 0.489 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.2	9.6	14.4
122	16.1	13.9	20.9

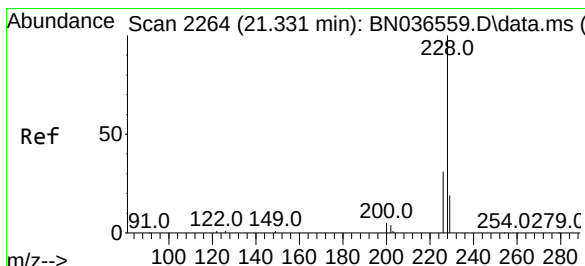
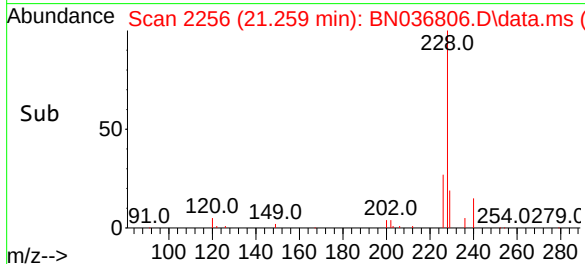
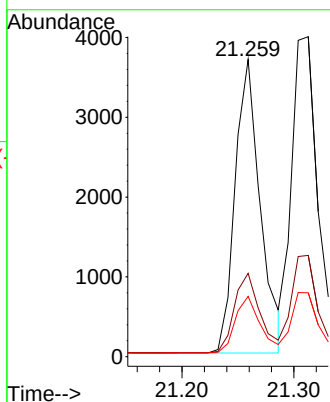
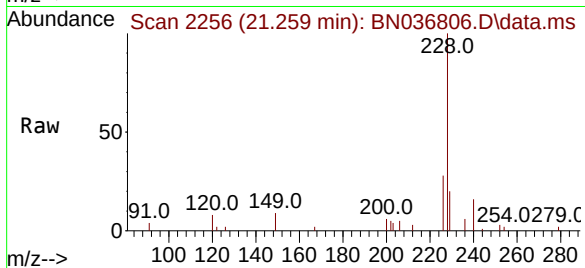




#32
Benzo(a)anthracene
Concen: 0.512 ng
RT: 21.259 min Scan# 21
Delta R.T. -0.027 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

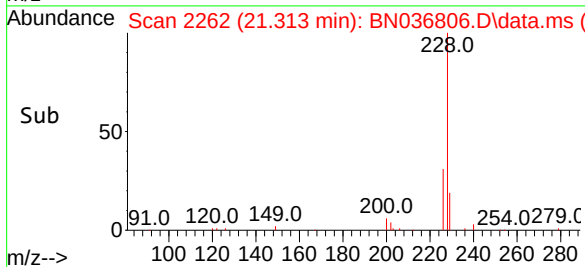
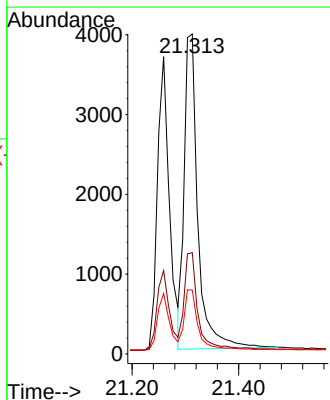
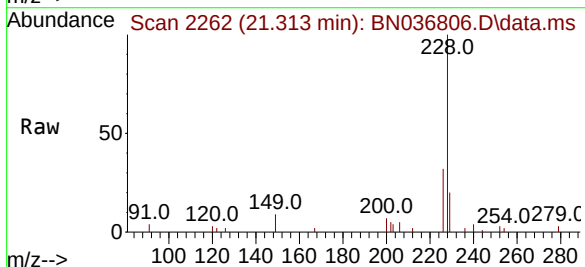
Instrument :
BNA_N
ClientSampleId :
PB167269BS

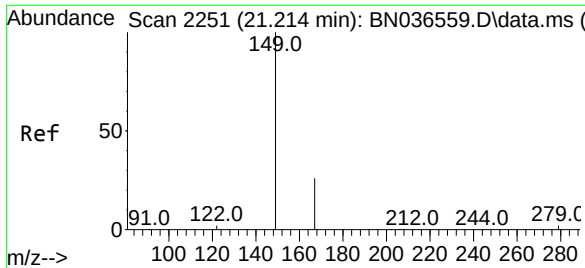
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.3	16.6	25.0



#33
Chrysene
Concen: 0.575 ng
RT: 21.313 min Scan# 2262
Delta R.T. -0.018 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	25.3	37.9
229	20.0	15.8	23.8

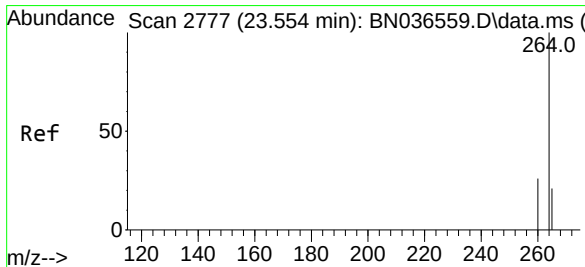
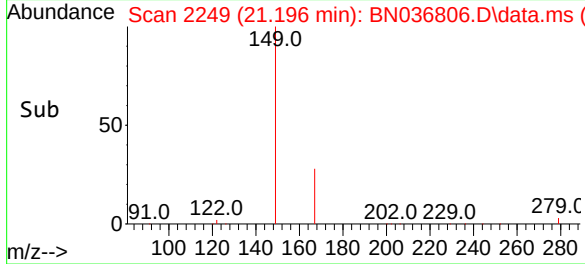
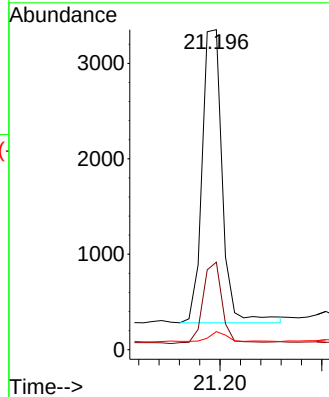
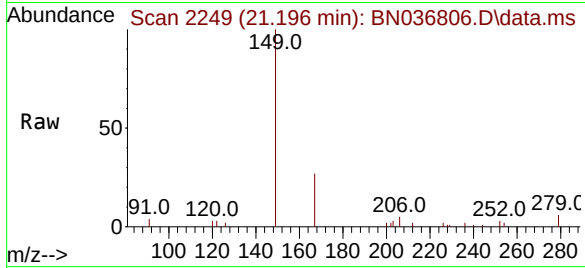




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.530 ng
RT: 21.196 min Scan# 21196
Delta R.T. -0.018 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

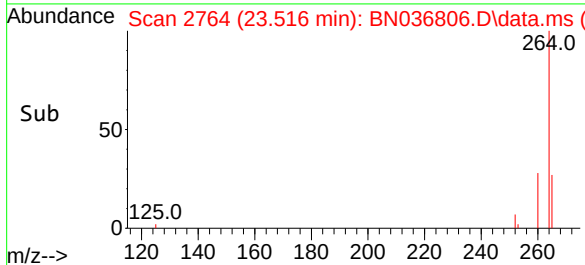
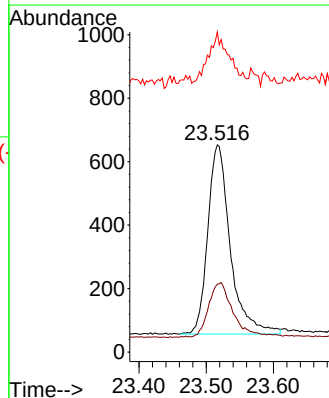
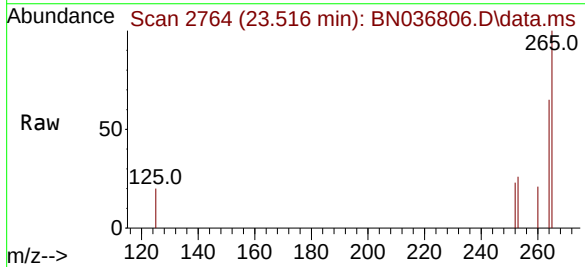
Instrument :
BNA_N
ClientSampleId :
PB167269BS

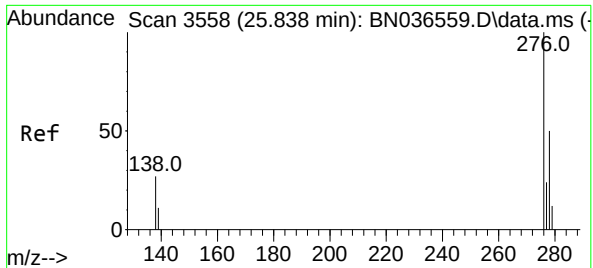
Tgt Ion:149 Resp: 4222
Ion Ratio Lower Upper
149 100
167 26.5 20.7 31.1
279 2.7 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 2764
Delta R.T. -0.038 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:264 Resp: 1389
Ion Ratio Lower Upper
264 100
260 32.8 22.6 33.8
265 154.5 88.1 132.1#

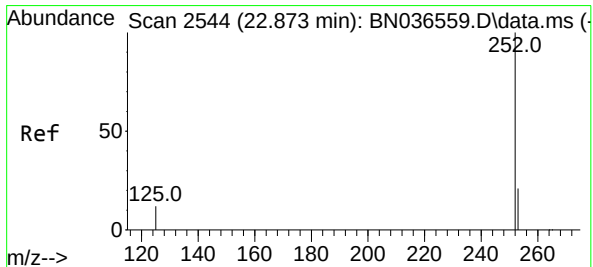
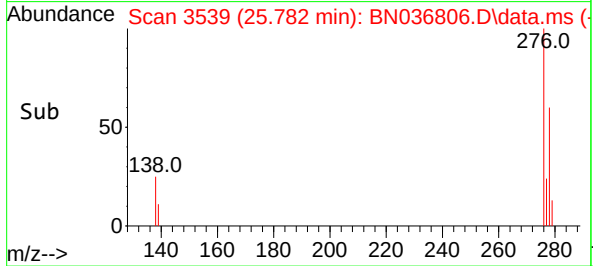
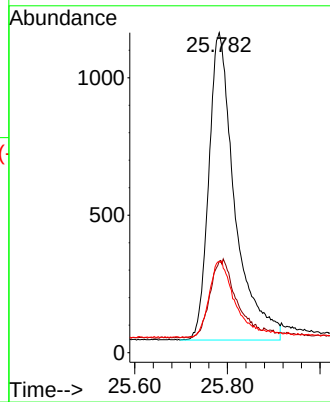
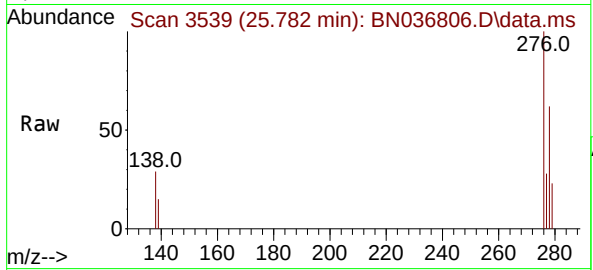




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.868 ng
RT: 25.782 min Scan# 31
Delta R.T. -0.055 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

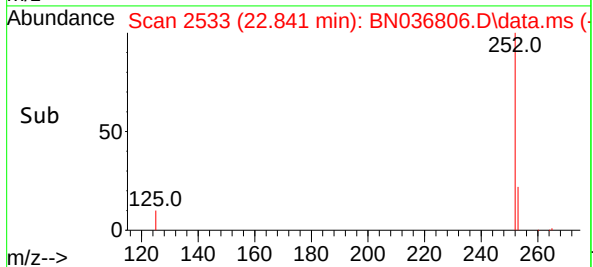
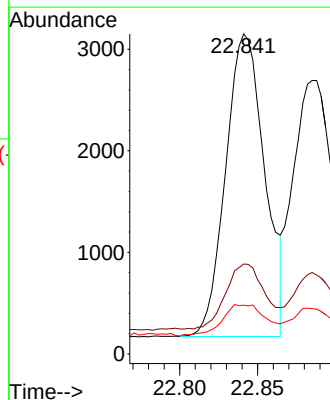
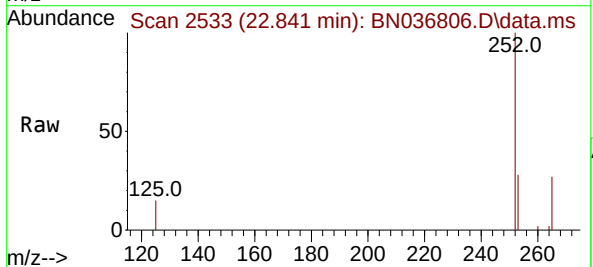
Instrument :
BNA_N
ClientSampleId :
PB167269BS

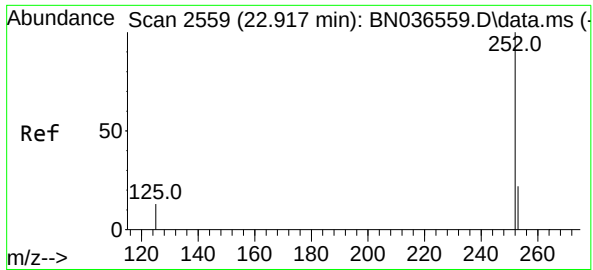
Tgt Ion:276 Resp: 4352
Ion Ratio Lower Upper
276 100
138 11.9 23.4 35.2#
277 24.8 20.0 30.0



#37
Benzo(b)fluoranthene
Concen: 1.026 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.032 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

Tgt Ion:252 Resp: 5186
Ion Ratio Lower Upper
252 100
253 28.1 23.9 35.9
125 15.2 17.4 26.2#





#38

Benzo(k)fluoranthene

Concen: 0.986 ng

RT: 22.885 min Scan# 21

Delta R.T. -0.032 min

Lab File: BN036806.D

Acq: 29 Mar 2025 11:45

Instrument :

BNA_N

ClientSampleId :

PB167269BS

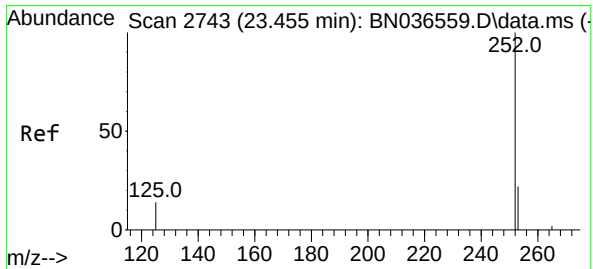
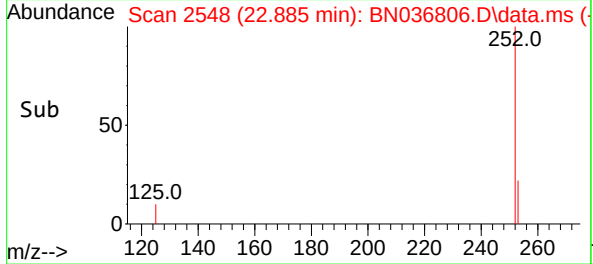
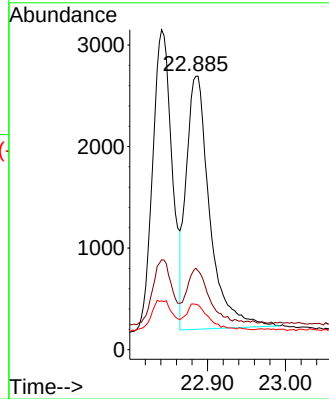
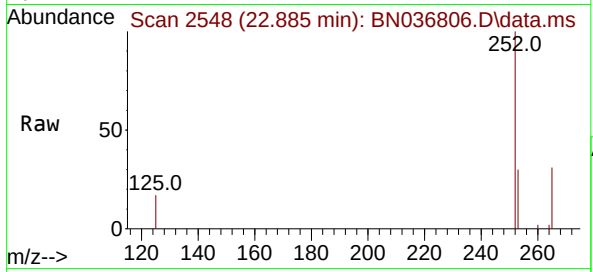
Tgt Ion:252 Resp: 5229

Ion Ratio Lower Upper

252 100

253 29.8 24.6 36.8

125 16.6 17.8 26.8#



#39

Benzo(a)pyrene

Concen: 0.770 ng

RT: 23.420 min Scan# 2731

Delta R.T. -0.035 min

Lab File: BN036806.D

Acq: 29 Mar 2025 11:45

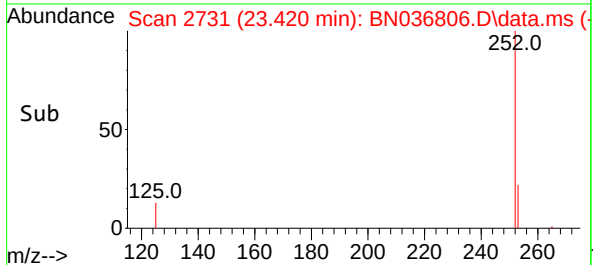
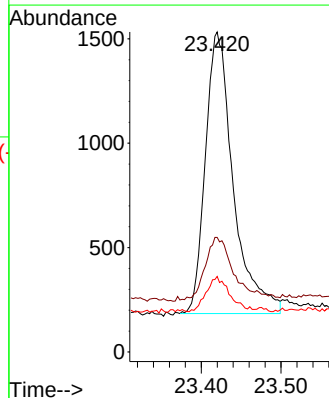
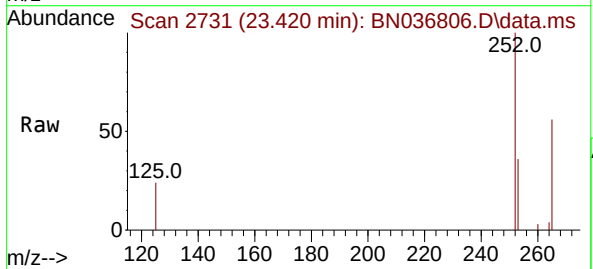
Tgt Ion:252 Resp: 3277

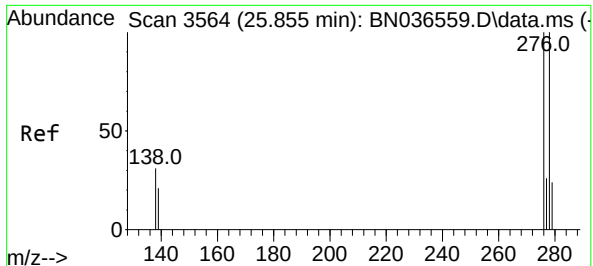
Ion Ratio Lower Upper

252 100

253 35.8 27.8 41.8

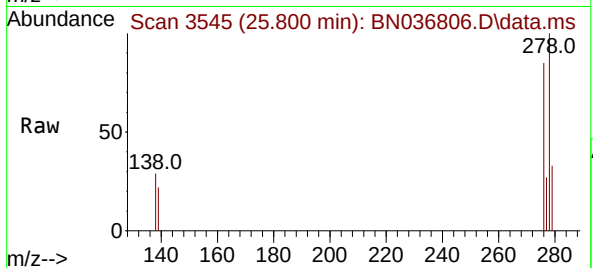
125 23.6 22.7 34.1



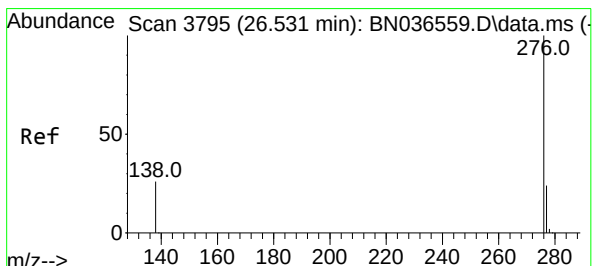
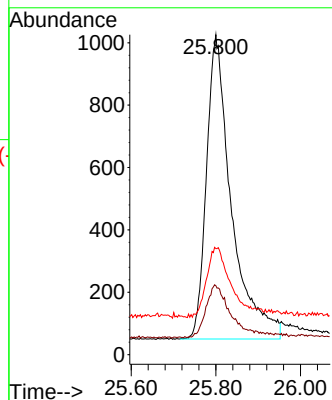
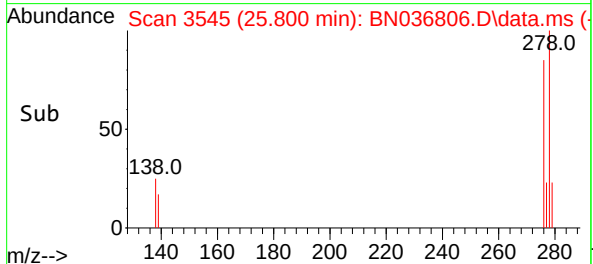


#40
Dibenzo(a,h)anthracene
Concen: 1.025 ng
RT: 25.800 min Scan# 31
Delta R.T. -0.055 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45

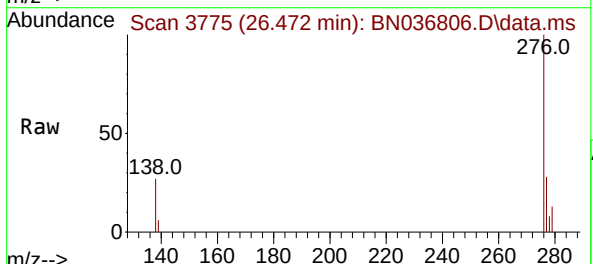
Instrument :
BNA_N
ClientSampleId :
PB167269BS



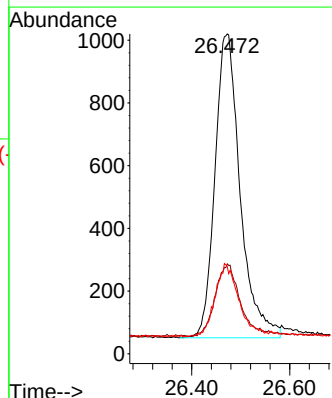
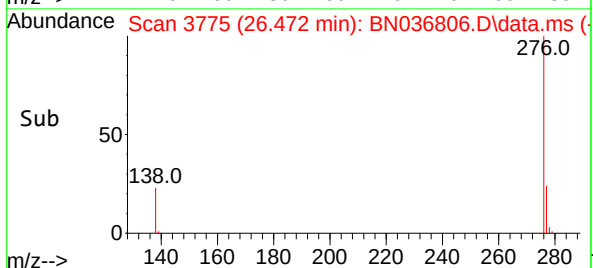
Tgt Ion:278 Resp: 3999
Ion Ratio Lower Upper
278 100
139 21.5 20.8 31.2
279 33.1 28.8 43.2



#41
Benzo(g,h,i)perylene
Concen: 0.776 ng
RT: 26.472 min Scan# 3775
Delta R.T. -0.058 min
Lab File: BN036806.D
Acq: 29 Mar 2025 11:45



Tgt Ion:276 Resp: 3464
Ion Ratio Lower Upper
276 100
277 28.1 22.2 33.4
138 27.4 24.1 36.1



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage - RW7B CTO WE13 112G08005	Date Received:	
Client Sample ID:	PB167269BSD	SDG No.:	Q1620
Lab Sample ID:	PB167269BSD	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
BN036814.D	1	03/24/25 08:15	03/31/25 14:16	PB167269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		106%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.44		55 - 111		109%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.46	*	53 - 106		116%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		131%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2860	7.695				
1146-65-2	Naphthalene-d8	7350	10.477				
15067-26-2	Acenaphthene-d10	4020	14.334				
1517-22-2	Phenanthrene-d10	7790	17.086				
1719-03-5	Chrysene-d12	4780	21.277				
1520-96-3	Perylene-d12	1670	23.519				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
 Data File : BN036814.D
 Acq On : 31 Mar 2025 14:16
 Operator : RC/JU
 Sample : PB167269BSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167269BSD

Quant Time: Mar 31 14:40:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

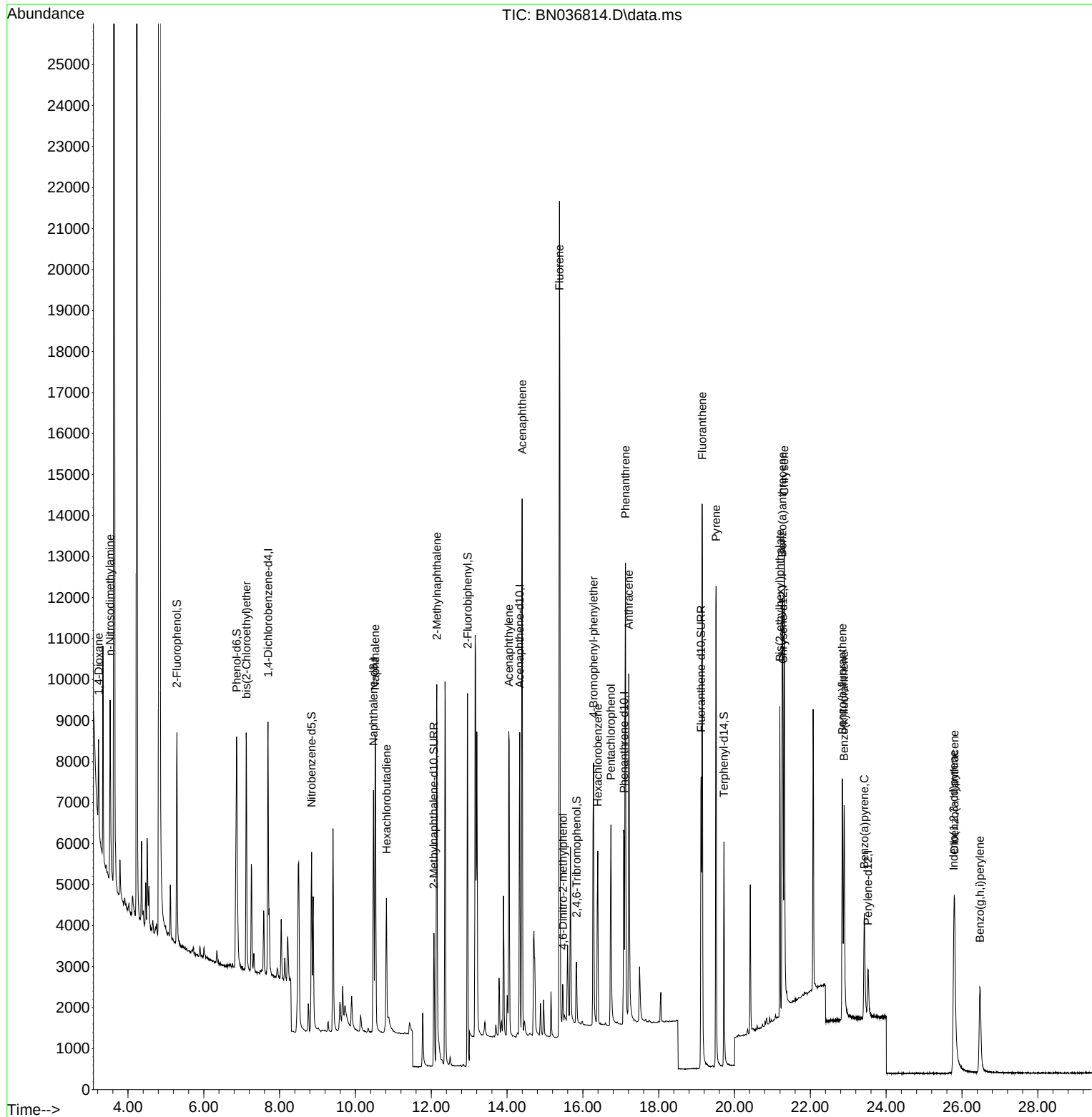
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	2858	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	7352	0.400	ng	#-0.03
13) Acenaphthene-d10	14.334	164	4021	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	7787	0.400	ng	#-0.02
29) Chrysene-d12	21.277	240	4781	0.400	ng	#-0.02
35) Perylene-d12	23.519	264	1670	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	3663	0.550	ng	-0.02
5) Phenol-d6	6.865	99	4565	0.555	ng	-0.04
8) Nitrobenzene-d5	8.843	82	3491	0.436	ng	-0.03
11) 2-Methylnaphthalene-d10	12.070	152	4651	0.425	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	932	0.511	ng	-0.02
15) 2-Fluorobiphenyl	12.958	172	10822	0.463	ng	-0.03
27) Fluoranthene-d10	19.118	212	8631	0.432	ng	-0.02
31) Terphenyl-d14	19.722	244	5990	0.523	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.225	88	1028	0.324	ng	# 56
3) n-Nitrosodimethylamine	3.528	42	3407	0.531	ng	88
6) bis(2-Chloroethyl)ether	7.125	93	4084	0.480	ng	96
9) Naphthalene	10.519	128	10220	0.473	ng	100
10) Hexachlorobutadiene	10.818	225	2311	0.454	ng	# 98
12) 2-Methylnaphthalene	12.146	142	6715	0.488	ng	99
16) Acenaphthylene	14.045	152	8923	0.470	ng	99
17) Acenaphthene	14.398	154	6339	0.510	ng	99
18) Fluorene	15.382	166	8375	0.498	ng	99
20) 4,6-Dinitro-2-methylph...	15.478	198	952	0.622	ng	# 52
21) 4-Bromophenyl-phenylether	16.280	248	2507	0.514	ng	88
22) Hexachlorobenzene	16.391	284	2869	0.487	ng	96
24) Pentachlorophenol	16.739	266	2659	0.990	ng	99
25) Phenanthrene	17.124	178	12206	0.523	ng	100
26) Anthracene	17.211	178	10876	0.516	ng	99
28) Fluoranthene	19.146	202	12865	0.490	ng	99
30) Pyrene	19.513	202	11729	0.502	ng	100
32) Benzo(a)anthracene	21.259	228	8542	0.514	ng	99
33) Chrysene	21.313	228	10531	0.580	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	6222	0.526	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.785	276	6515	1.081	ng	97
37) Benzo(b)fluoranthene	22.844	252	7608	1.252	ng	# 90
38) Benzo(k)fluoranthene	22.891	252	7777	1.220	ng	# 90
39) Benzo(a)pyrene	23.423	252	4618	0.902	ng	# 93
40) Dibenzo(a,h)anthracene	25.803	278	6002	1.279	ng	# 90
41) Benzo(g,h,i)perylene	26.475	276	4911	0.915	ng	96

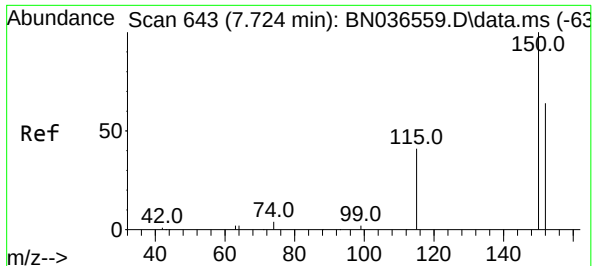
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036814.D
Acq On : 31 Mar 2025 14:16
Operator : RC/JU
Sample : PB167269BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167269BSD

Quant Time: Mar 31 14:40:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

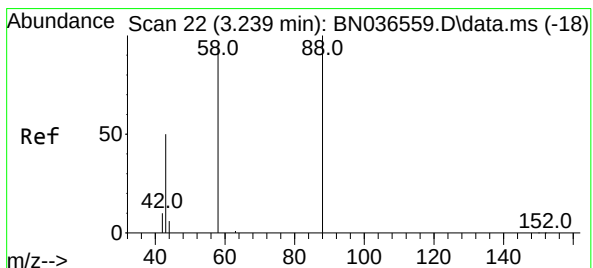
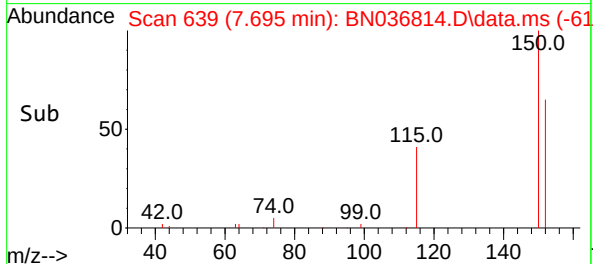
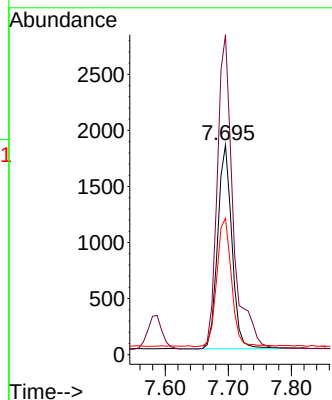
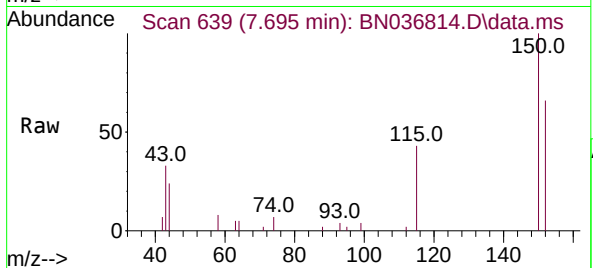




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 61
Delta R.T. -0.029 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

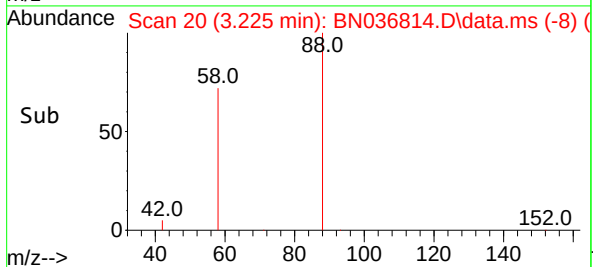
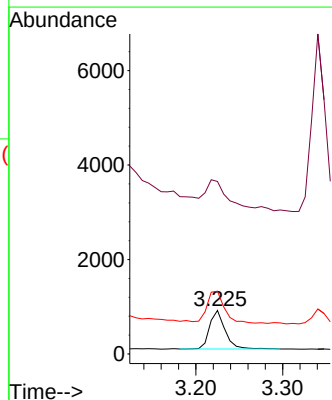
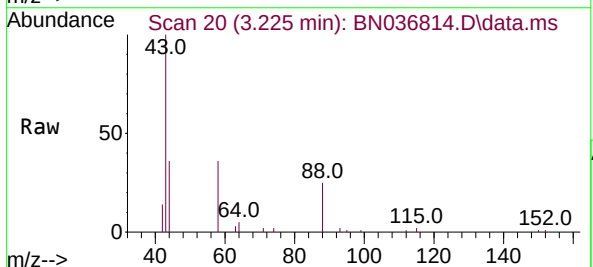
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

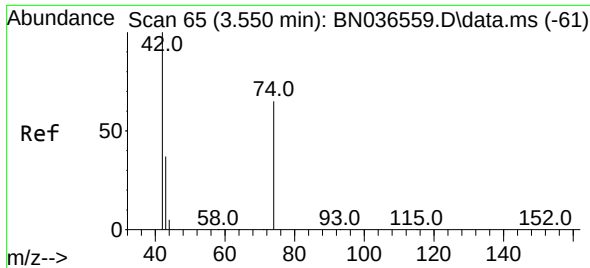
Tgt Ion:152 Resp: 2858
Ion Ratio Lower Upper
152 100
150 152.5 123.7 185.5
115 65.0 54.3 81.5



#2
1,4-Dioxane
Concen: 0.324 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion: 88 Resp: 1028
Ion Ratio Lower Upper
88 100
43 116.9 37.8 56.8#
58 93.3 67.4 101.2

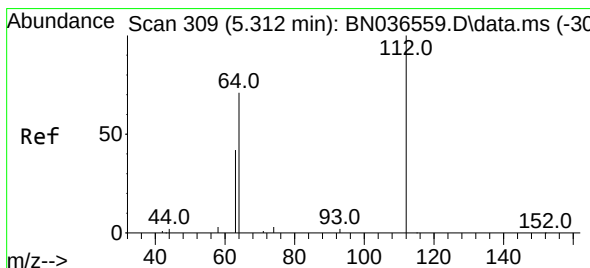
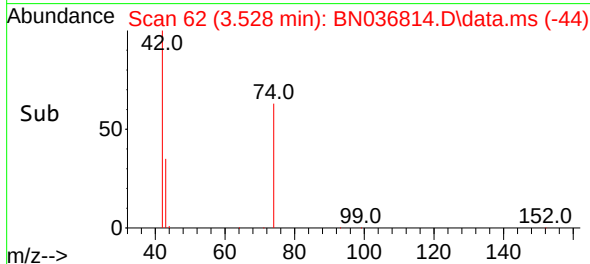
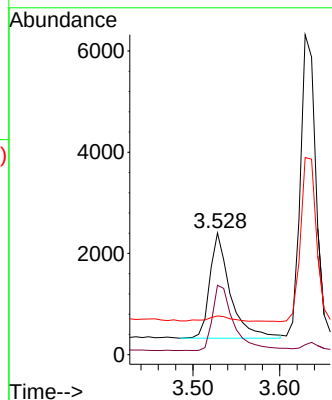
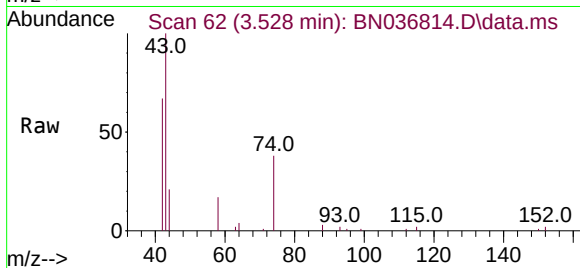




#3
n-Nitrosodimethylamine
Concen: 0.531 ng
RT: 3.528 min Scan# 61
Delta R.T. -0.022 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

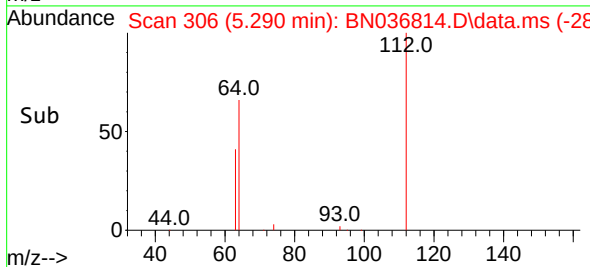
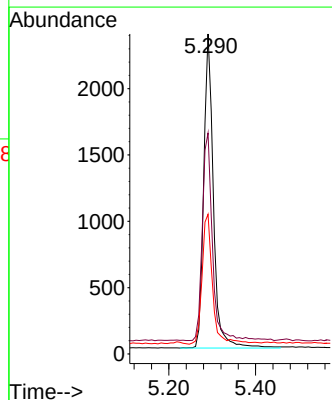
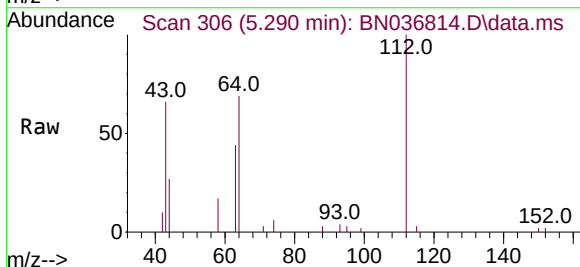
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

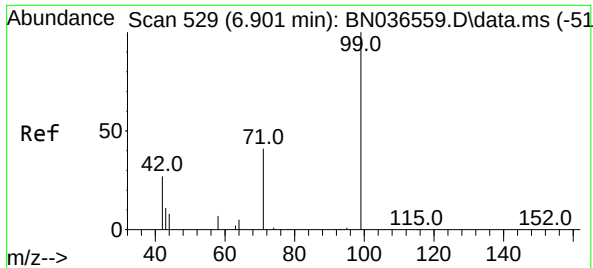
Tgt Ion: 42 Resp: 3407
Ion Ratio Lower Upper
42 100
74 65.1 60.6 90.8
44 6.7 6.3 9.5



#4
2-Fluorophenol
Concen: 0.550 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion: 112 Resp: 3663
Ion Ratio Lower Upper
112 100
64 67.9 53.1 79.7
63 44.7 31.8 47.8

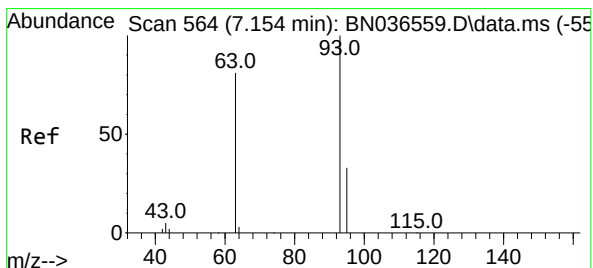
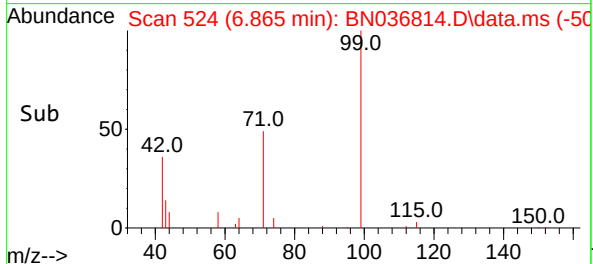
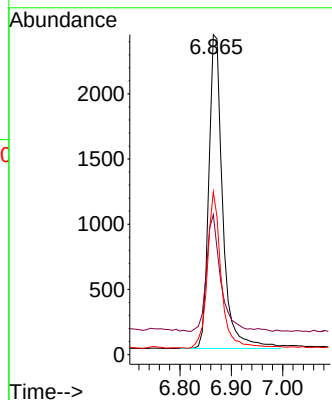
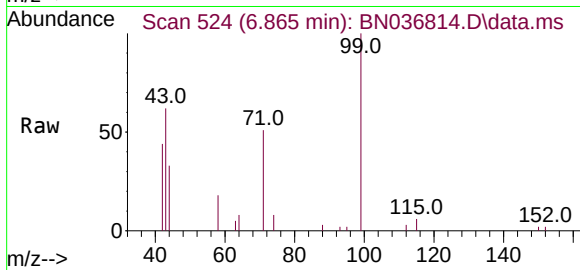




#5
Phenol-d6
Concen: 0.555 ng
RT: 6.865 min Scan# 51
Delta R.T. -0.036 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

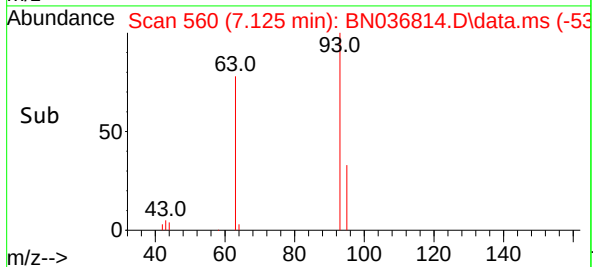
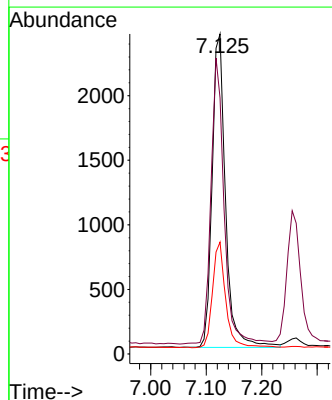
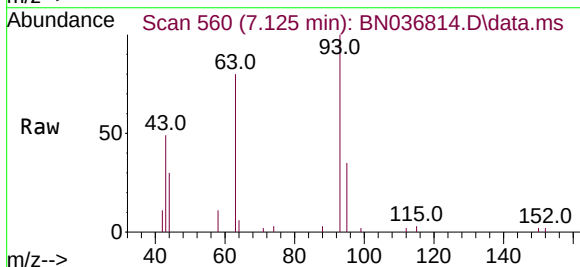
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

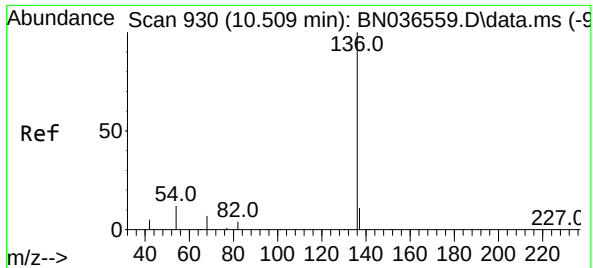
Tgt Ion	Ratio	Lower	Upper
99	100		
42	37.6	26.5	39.7
71	49.9	34.1	51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.480 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion	Ratio	Lower	Upper
93	100		
63	88.9	67.7	101.5
95	33.1	25.6	38.4

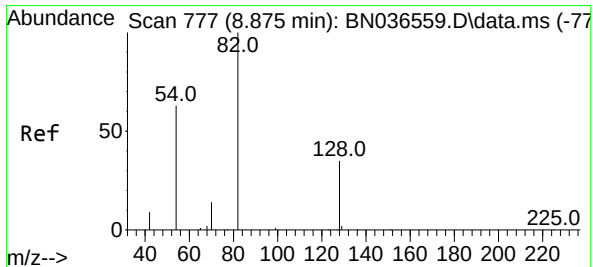
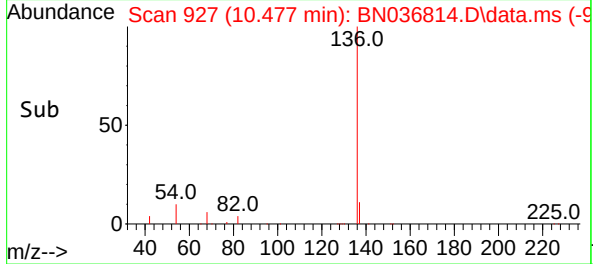
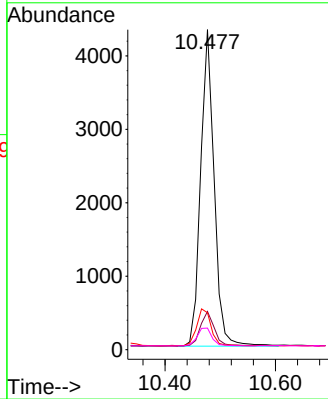
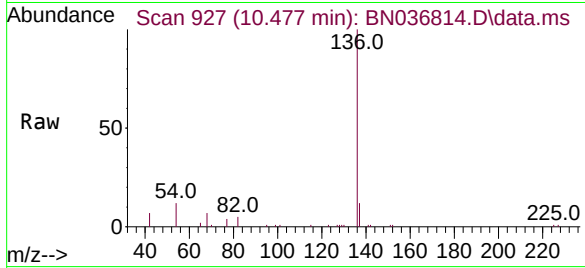




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

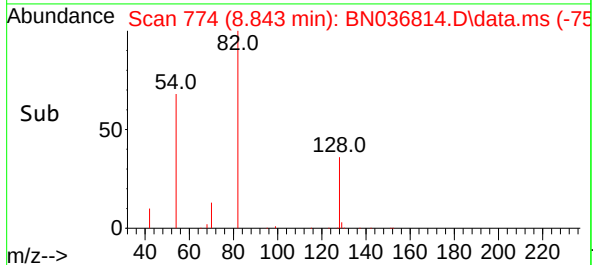
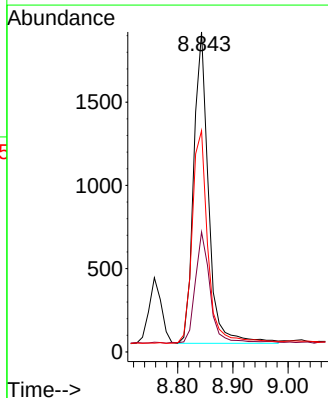
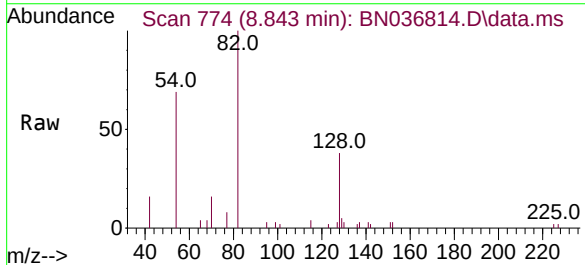
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

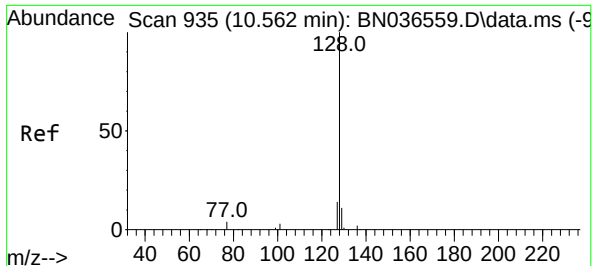
Tgt Ion:	136	Resp:	7352
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.3	15.5
54	11.5	11.5	17.3
68	6.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.436 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:	82	Resp:	3491
Ion	Ratio	Lower	Upper
82	100		
128	37.5	30.6	45.8
54	69.1	52.2	78.4

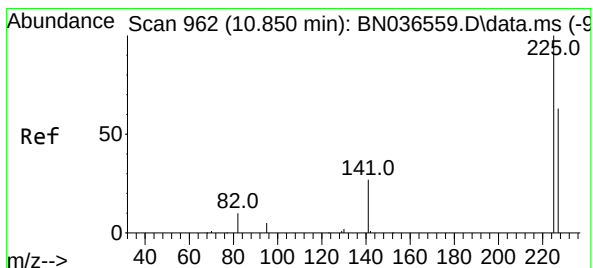
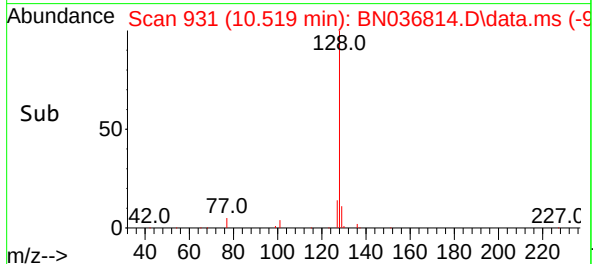
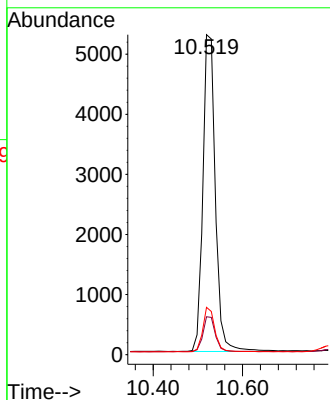
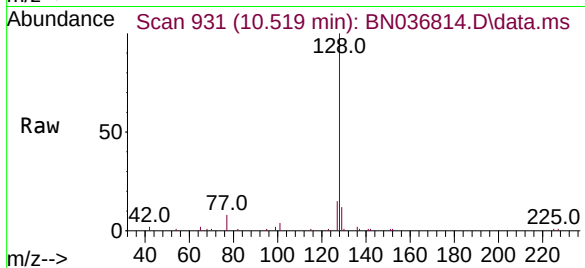




#9
Naphthalene
Concen: 0.473 ng
RT: 10.519 min Scan# 911
Delta R.T. -0.043 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

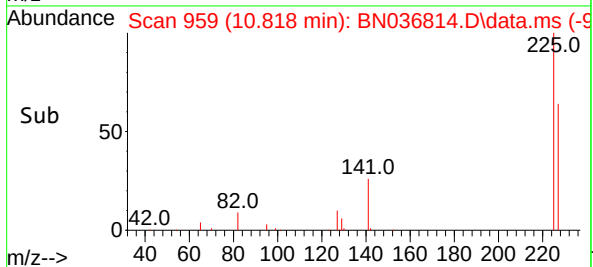
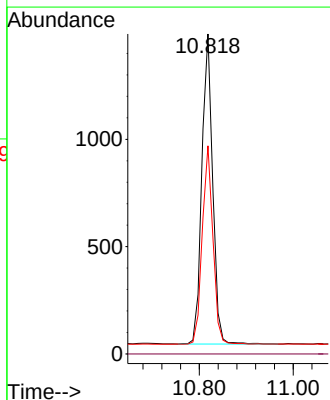
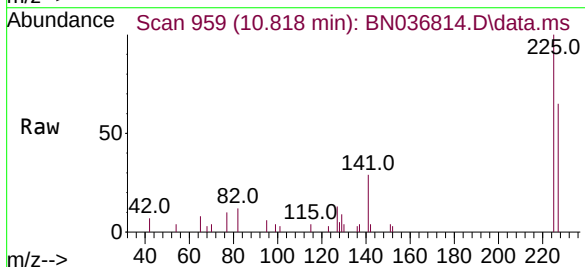
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

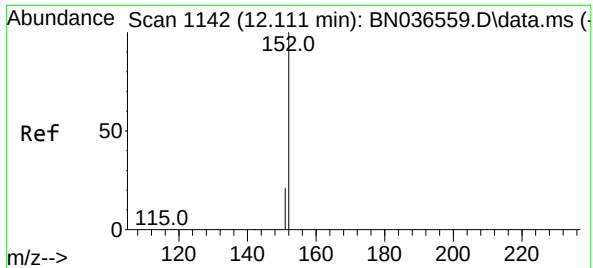
Tgt Ion	128	129	127
Resp:	10220		
Ion Ratio	100	11.8	14.8
Lower		9.8	11.8
Upper		14.6	17.8



#10
Hexachlorobutadiene
Concen: 0.454 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion	225	223	227
Resp:	2311		
Ion Ratio	100	0.0	63.4
Lower		0.0	51.8
Upper		0.0	77.8

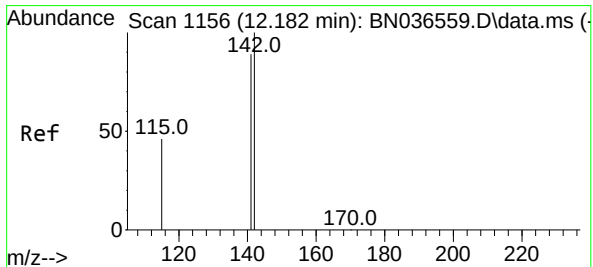
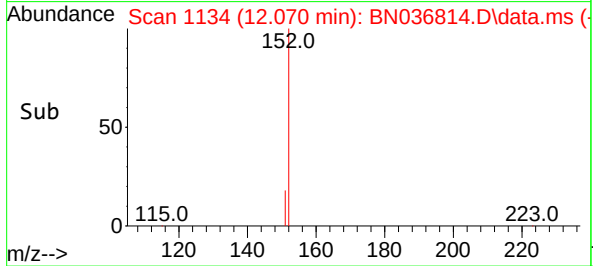
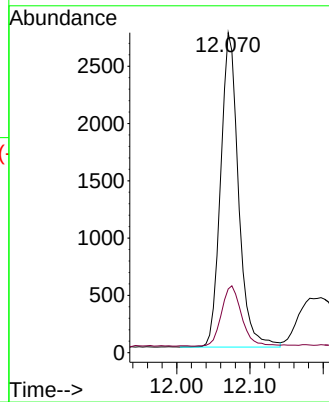
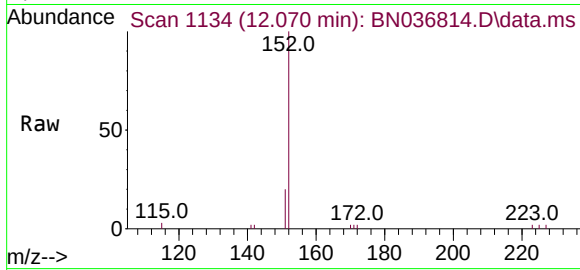




#11
2-Methylnaphthalene-d10
Concen: 0.425 ng
RT: 12.070 min Scan# 1149
Delta R.T. -0.041 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

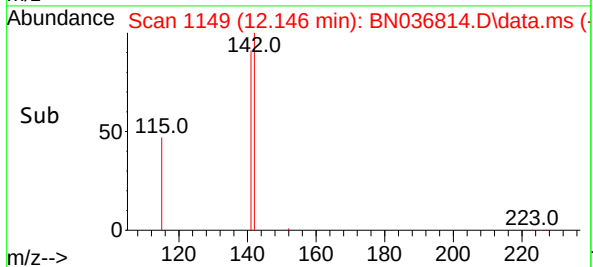
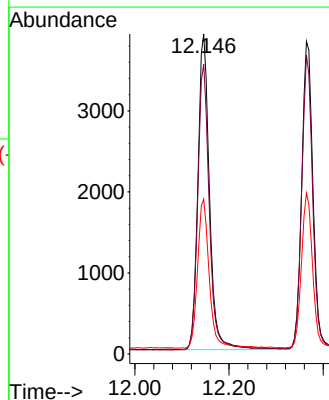
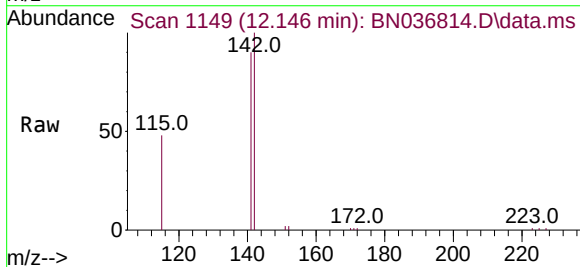
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

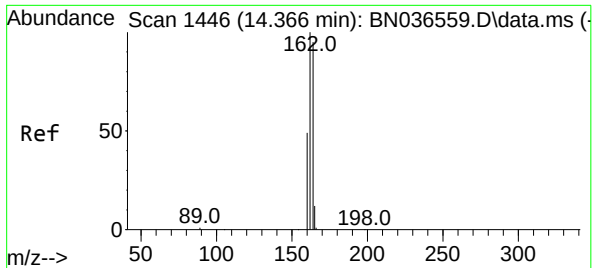
Tgt Ion:152 Resp: 4651
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.488 ng
RT: 12.146 min Scan# 1149
Delta R.T. -0.035 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:142 Resp: 6715
Ion Ratio Lower Upper
142 100
141 90.5 71.7 107.5
115 48.3 38.3 57.5

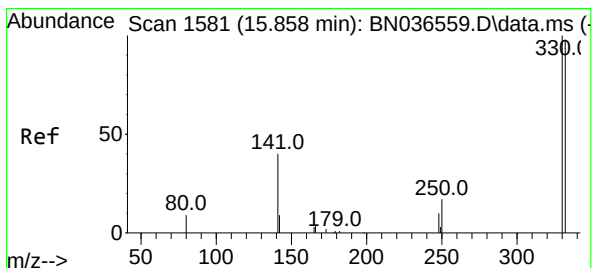
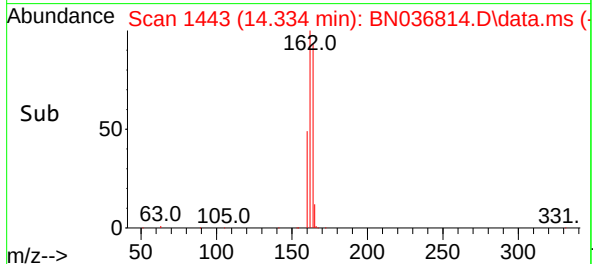
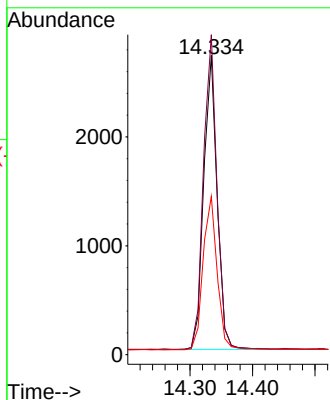
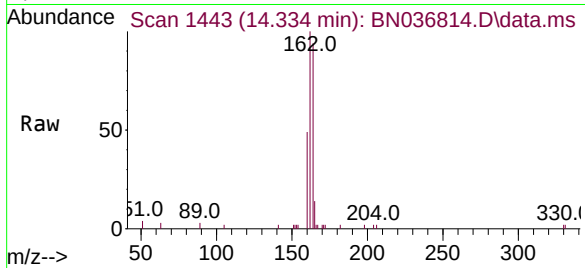




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1446
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

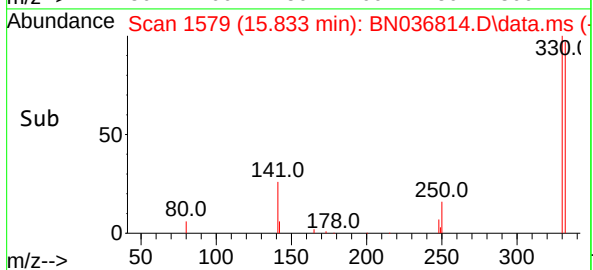
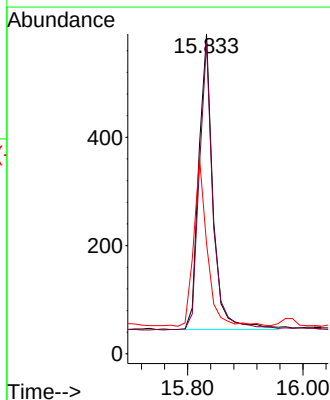
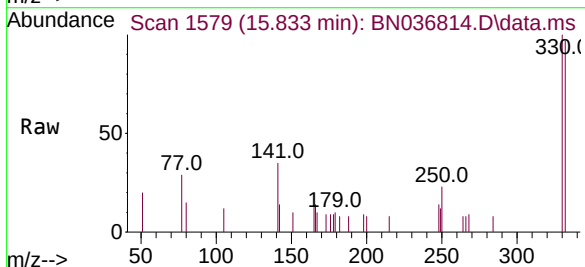
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

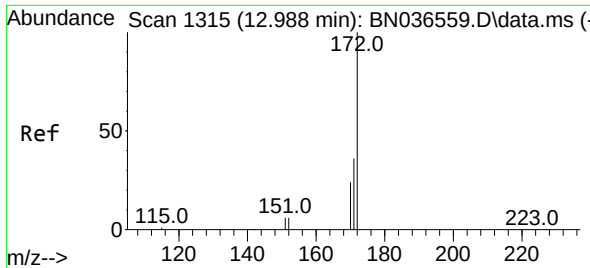
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.9	84.2	126.2
160	52.9	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.511 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.0	75.2	112.8
141	53.5	43.4	65.2

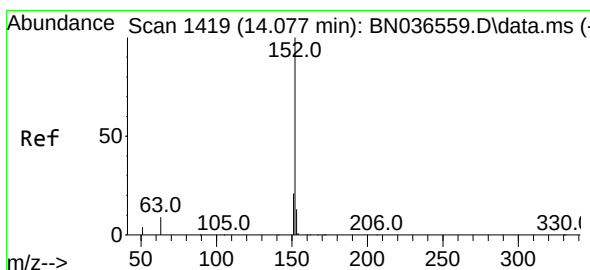
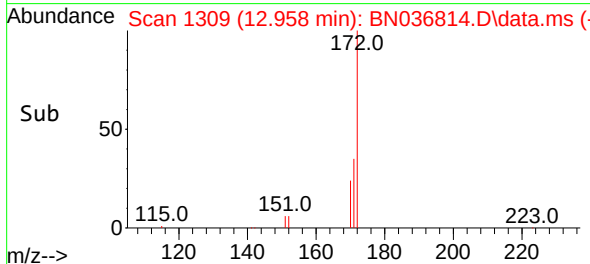
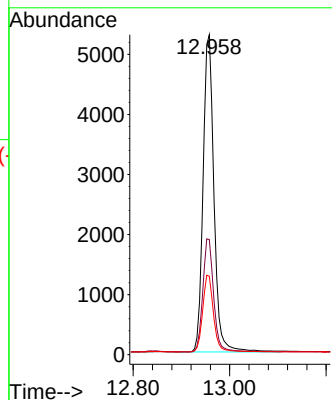
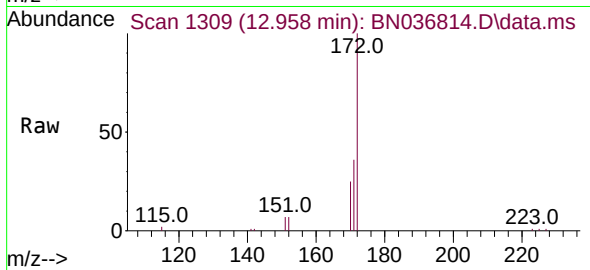




#15
2-Fluorobiphenyl
Concen: 0.463 ng
RT: 12.958 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

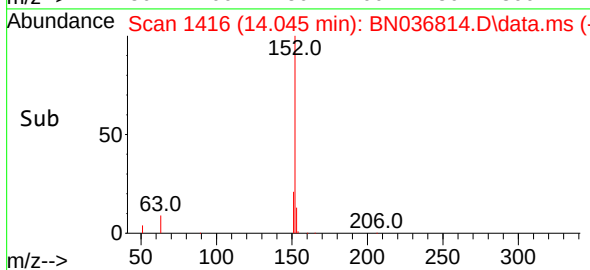
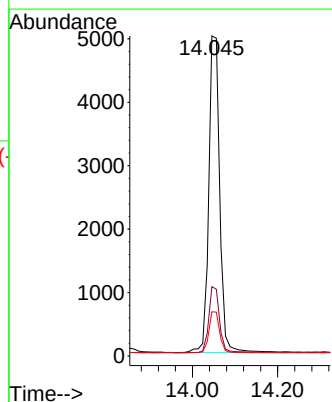
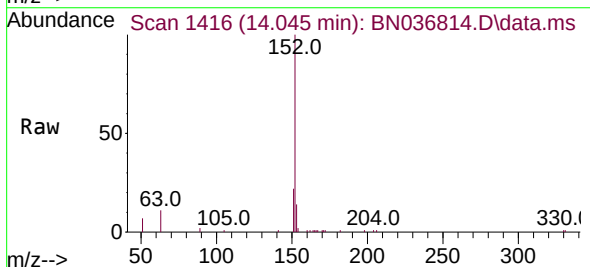
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

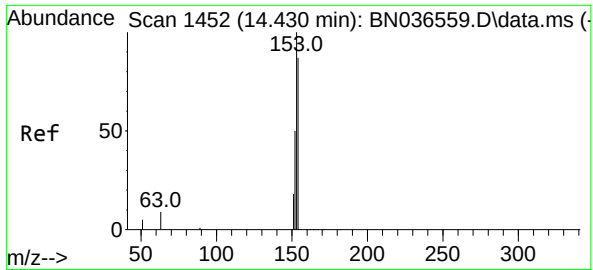
Tgt Ion:	172	Resp:	10822
Ion Ratio	Lower	Upper	
172	100		
171	36.0	29.5	44.3
170	24.5	20.2	30.4



#16
Acenaphthylene
Concen: 0.470 ng
RT: 14.045 min Scan# 1416
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:	152	Resp:	8923
Ion Ratio	Lower	Upper	
152	100		
151	20.0	16.2	24.4
153	13.0	10.6	15.8

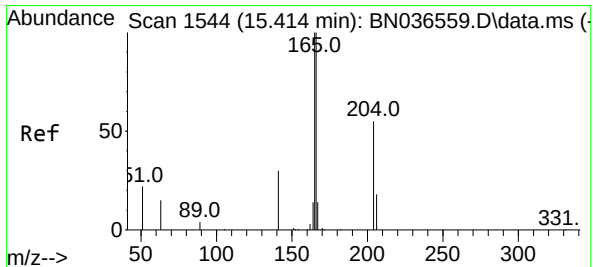
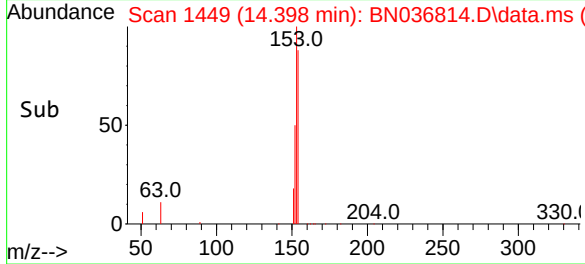
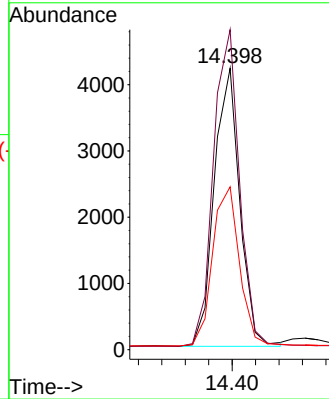
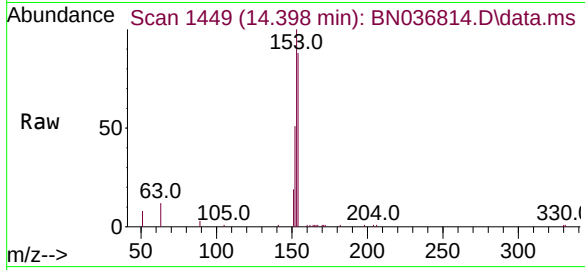




#17
Acenaphthene
Concen: 0.510 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

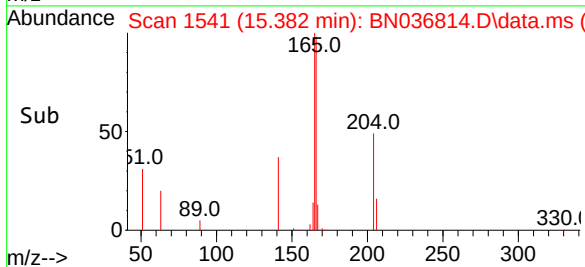
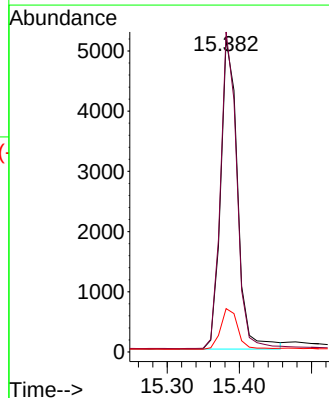
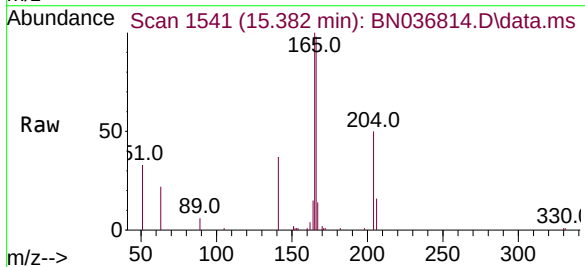
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

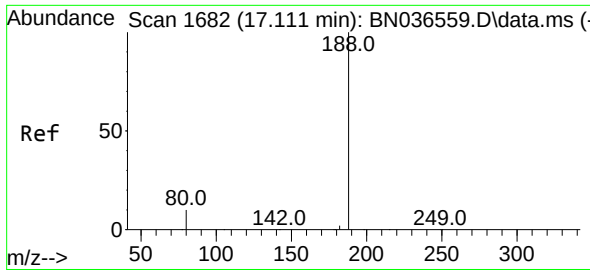
Tgt Ion:154 Resp: 6339
Ion Ratio Lower Upper
154 100
153 116.7 94.1 141.1
152 60.9 49.8 74.6



#18
Fluorene
Concen: 0.498 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:166 Resp: 8375
Ion Ratio Lower Upper
166 100
165 100.4 79.8 119.8
167 13.3 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. -0.025 min

Lab File: BN036814.D

Acq: 31 Mar 2025 14:16

Instrument :

BNA_N

ClientSampleId :

PB167269BSD

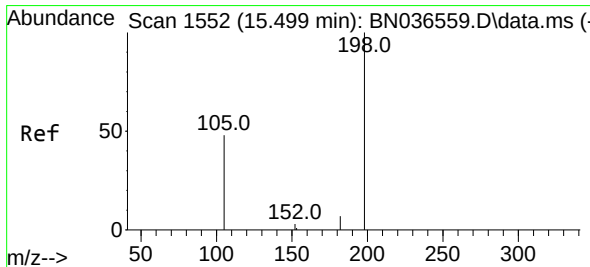
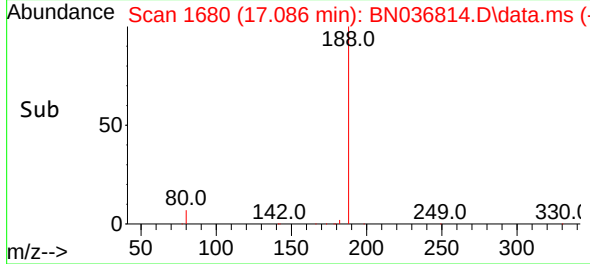
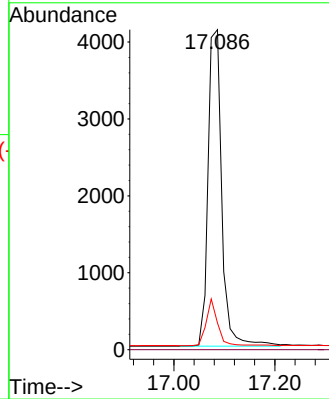
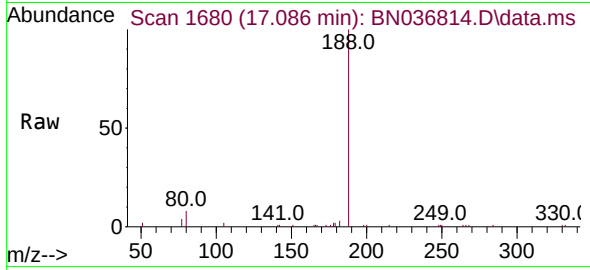
Tgt Ion:188 Resp: 7787

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.4 8.8 13.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.622 ng

RT: 15.478 min Scan# 1550

Delta R.T. -0.021 min

Lab File: BN036814.D

Acq: 31 Mar 2025 14:16

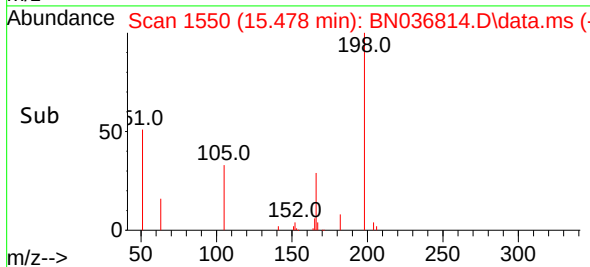
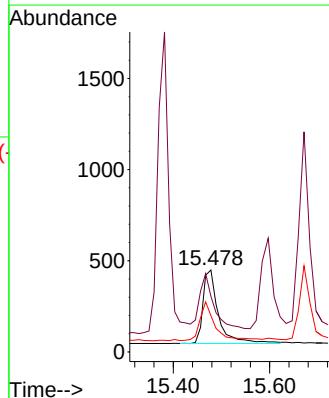
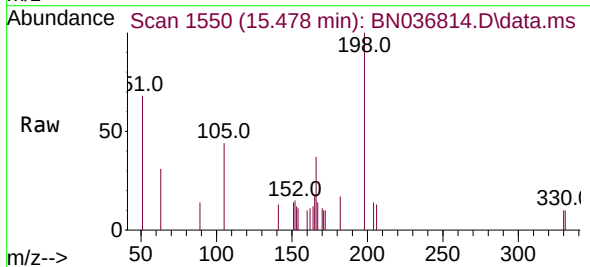
Tgt Ion:198 Resp: 952

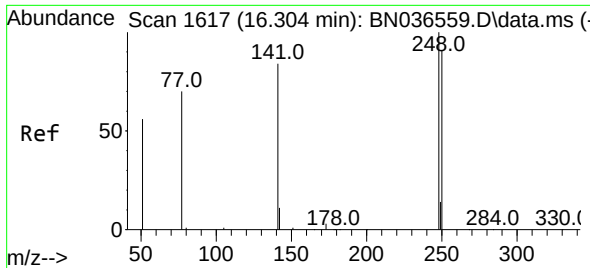
Ion Ratio Lower Upper

198 100

51 67.9 107.9 161.9#

105 44.3 56.2 84.2#

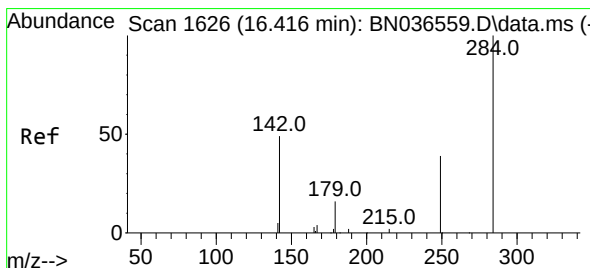
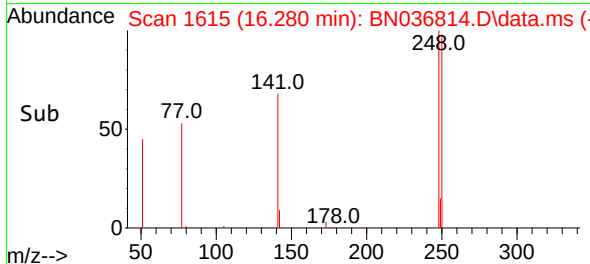
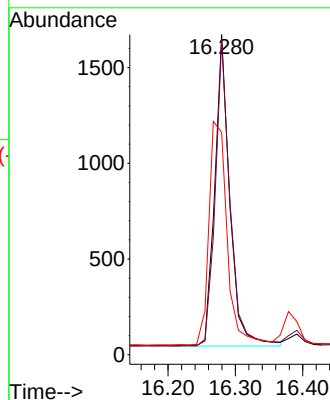
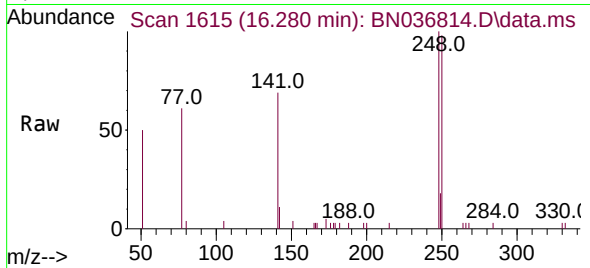




#21
4-Bromophenyl-phenylether
Concen: 0.514 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

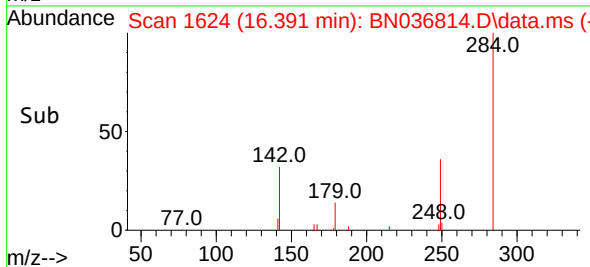
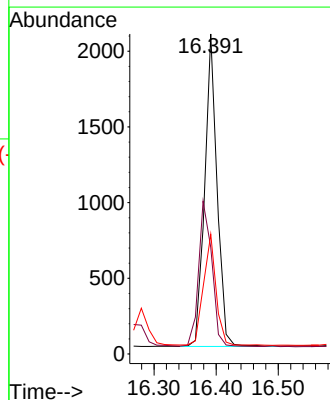
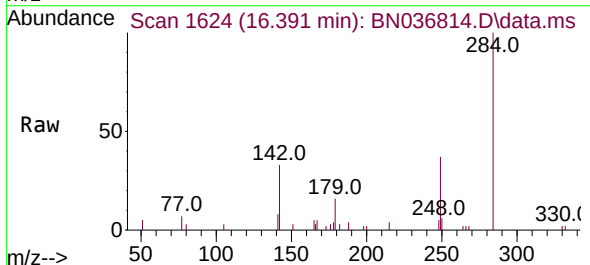
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

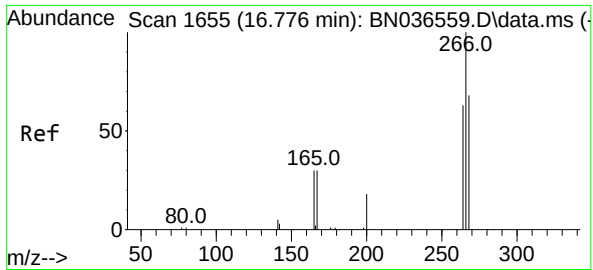
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.4	73.0	109.6
141	69.5	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.487 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion	Ratio	Lower	Upper
284	100		
142	49.9	37.0	55.4
249	36.4	28.1	42.1

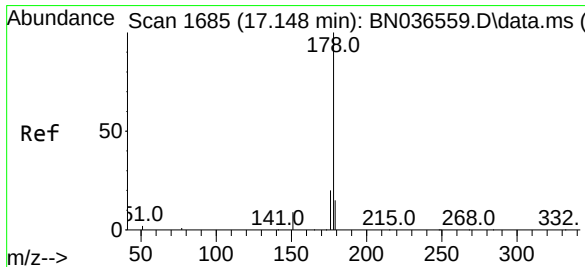
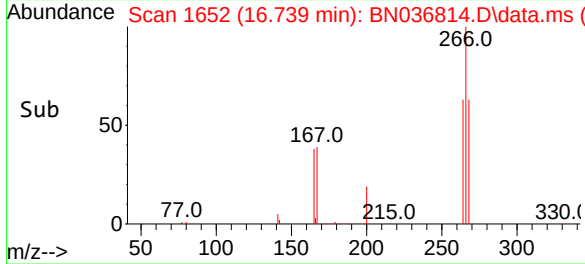
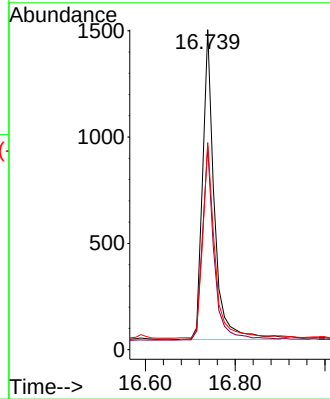
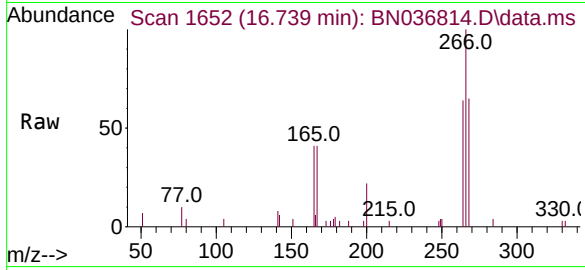




#24
Pentachlorophenol
Concen: 0.990 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

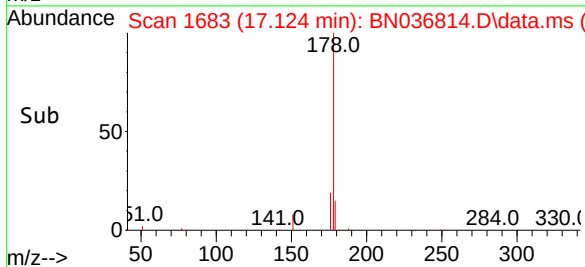
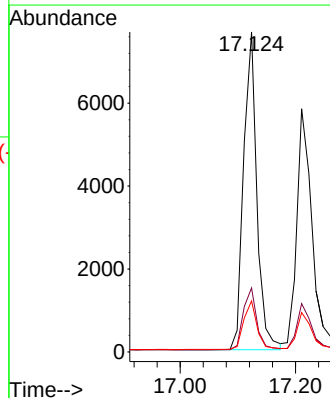
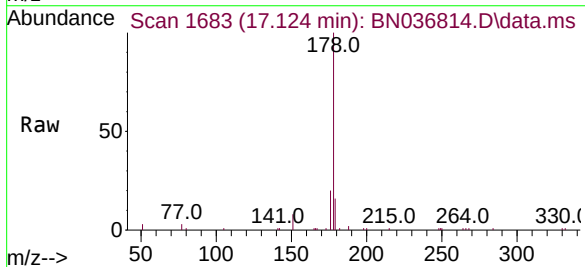
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

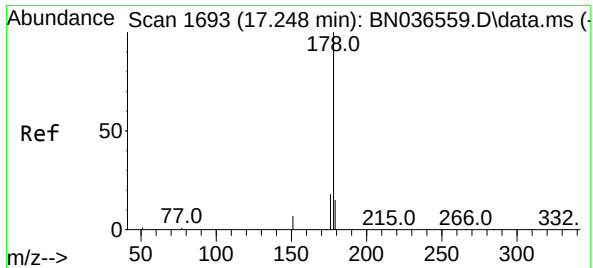
Tgt Ion:266 Resp: 2659
Ion Ratio Lower Upper
266 100
264 62.7 49.6 74.4
268 64.3 50.9 76.3



#25
Phenanthrene
Concen: 0.523 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.025 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:178 Resp: 12206
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 15.4 12.2 18.4

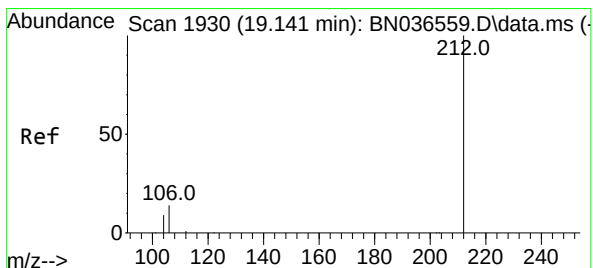
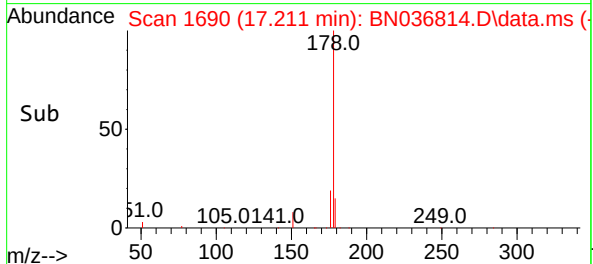
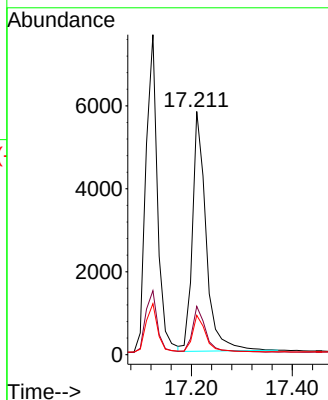
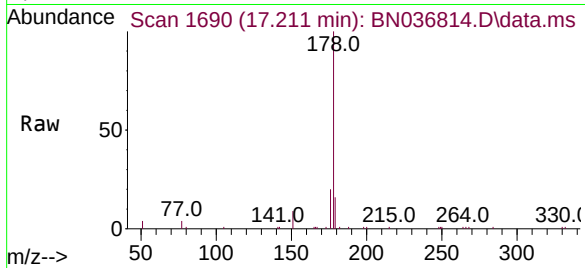




#26
Anthracene
Concen: 0.516 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.037 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

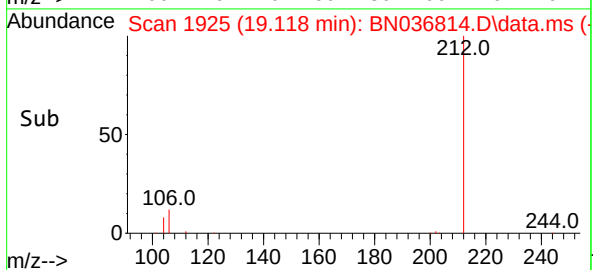
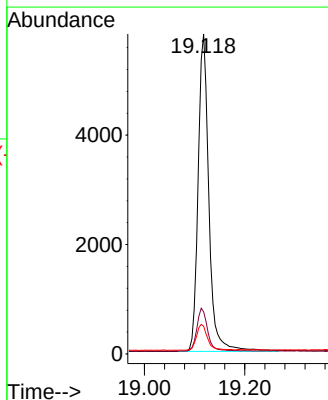
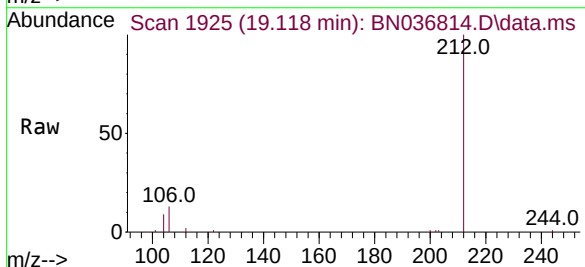
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

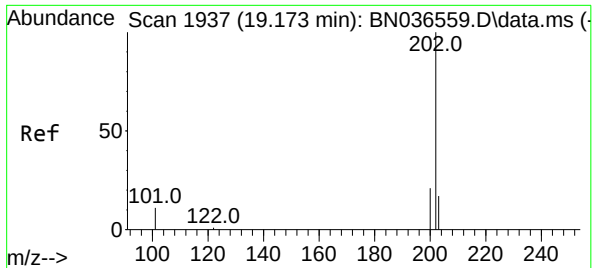
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.2	12.6	18.8



#27
Fluoranthene-d10
Concen: 0.432 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.5	11.8	17.6
104	8.4	7.3	10.9

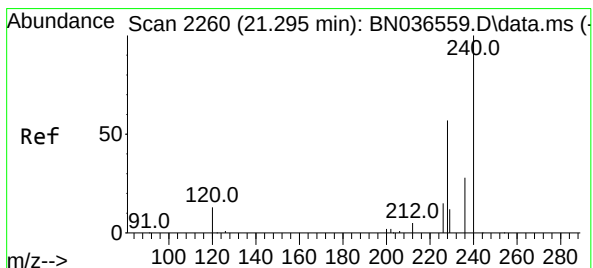
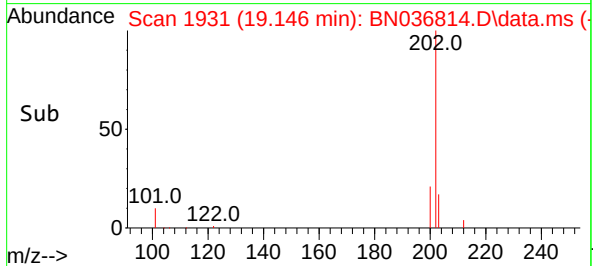
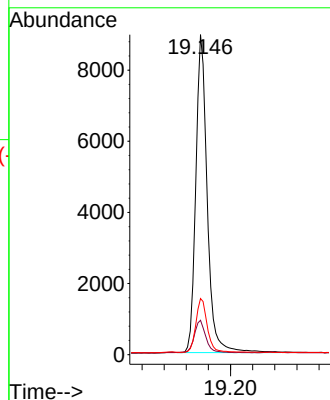
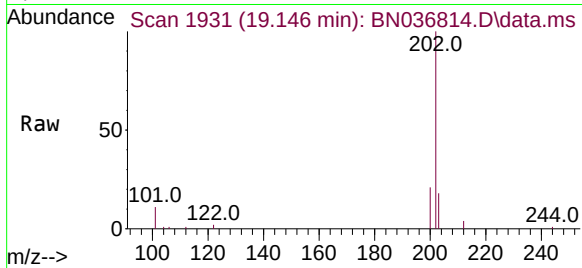




#28
Fluoranthene
Concen: 0.490 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

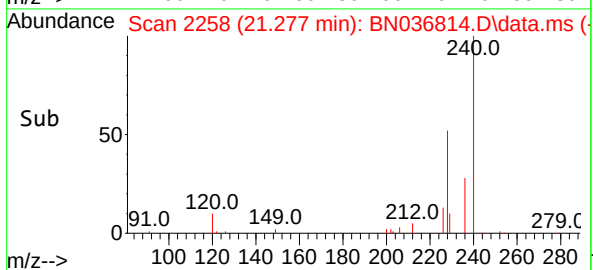
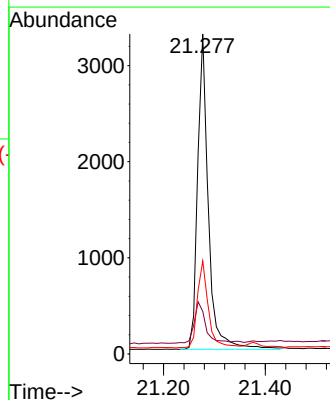
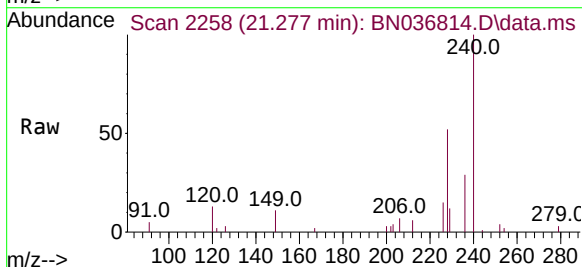
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

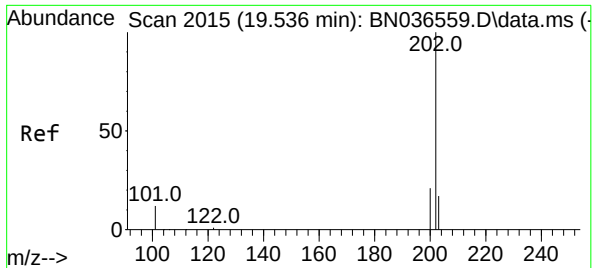
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.8	9.4	14.0
203	16.8	13.5	20.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 2258
Delta R.T. -0.018 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.3	14.6	22.0#
236	29.1	24.1	36.1

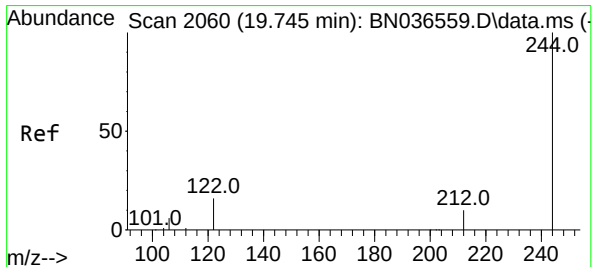
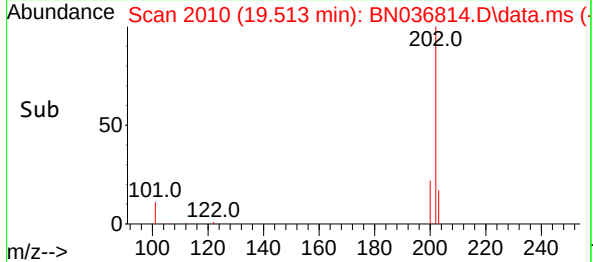
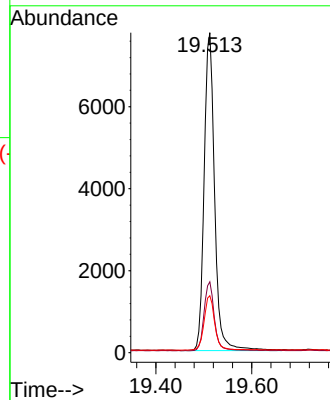
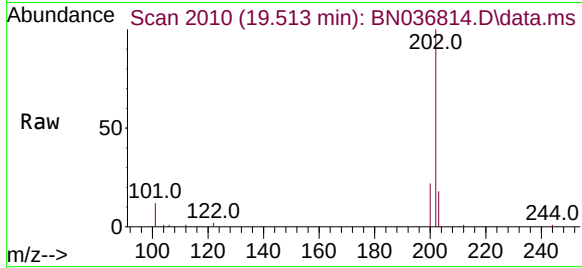




#30
Pyrene
Concen: 0.502 ng
RT: 19.513 min Scan# 2015
Delta R.T. -0.023 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

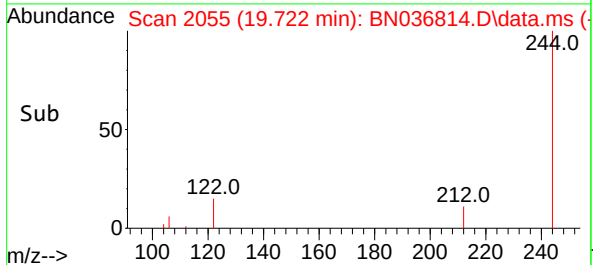
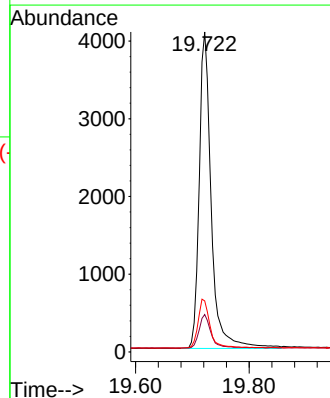
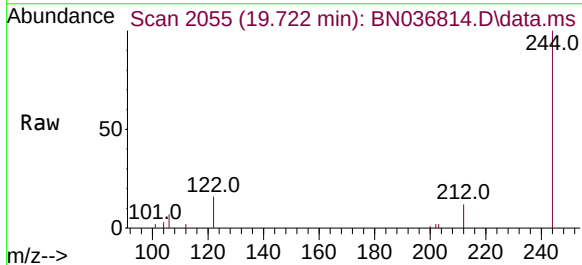
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

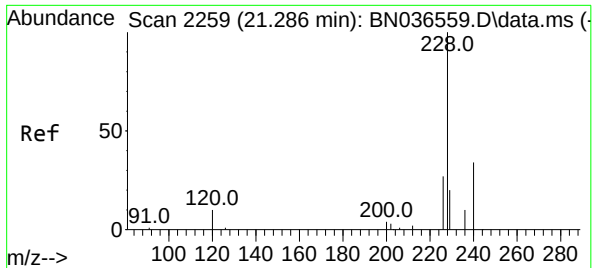
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.1	25.7
203	17.3	14.1	21.1



#31
Terphenyl-d14
Concen: 0.523 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.6	14.4
122	15.9	13.9	20.9

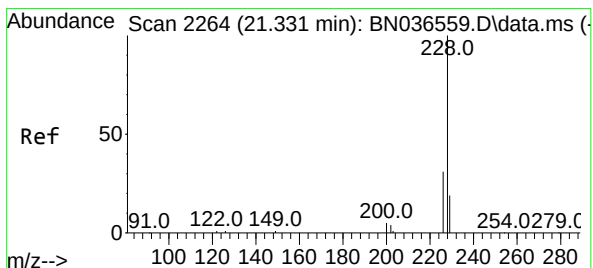
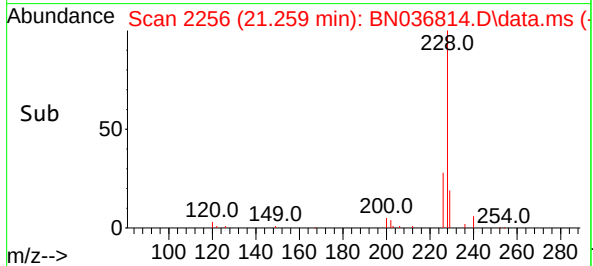
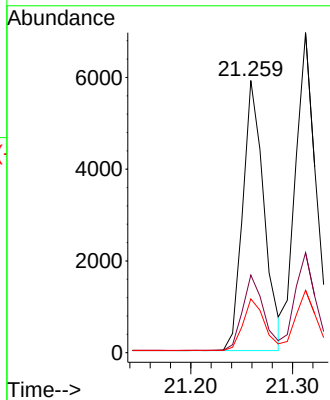
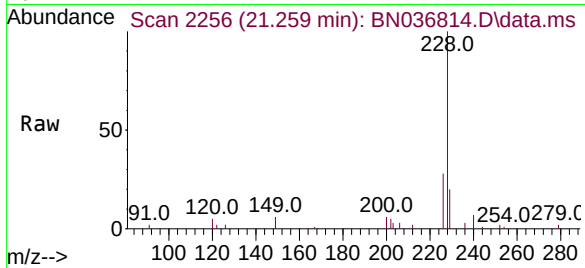




#32
Benzo(a)anthracene
Concen: 0.514 ng
RT: 21.259 min Scan# 21
Delta R.T. -0.027 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

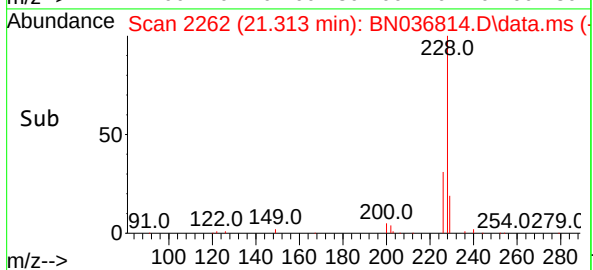
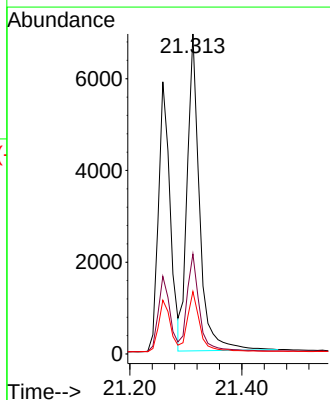
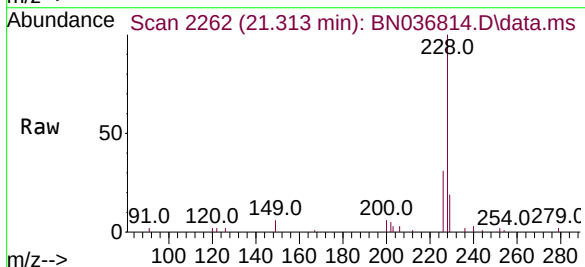
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

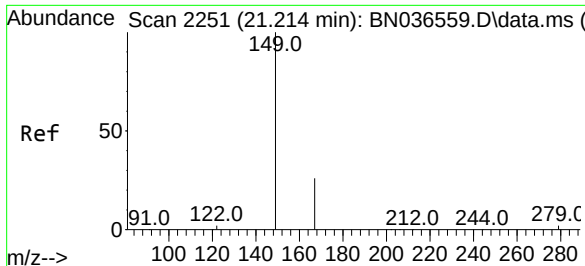
Tgt Ion:228 Resp: 8542
Ion Ratio Lower Upper
228 100
226 28.5 22.5 33.7
229 19.8 16.6 25.0



#33
Chrysene
Concen: 0.580 ng
RT: 21.313 min Scan# 2262
Delta R.T. -0.018 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:228 Resp: 10531
Ion Ratio Lower Upper
228 100
226 31.3 25.3 37.9
229 19.5 15.8 23.8

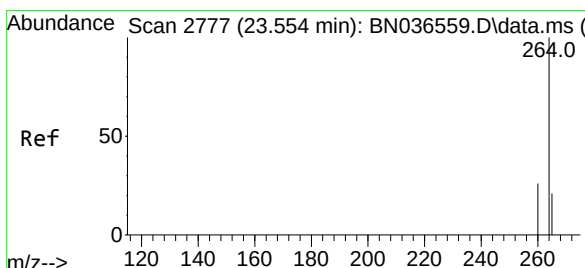
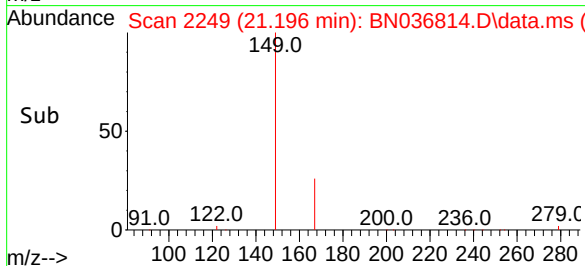
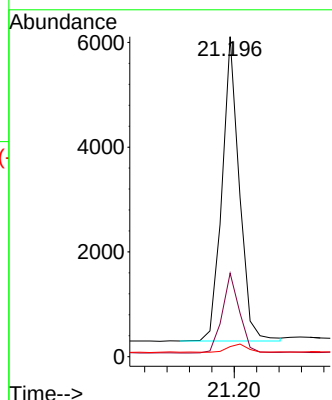
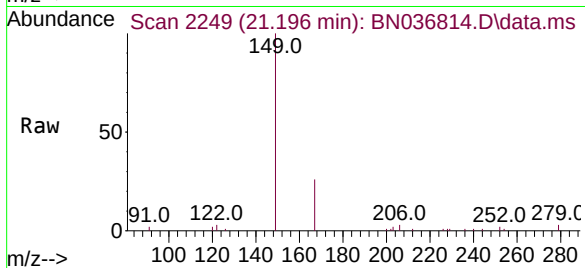




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.526 ng
RT: 21.196 min Scan# 21196
Delta R.T. -0.018 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

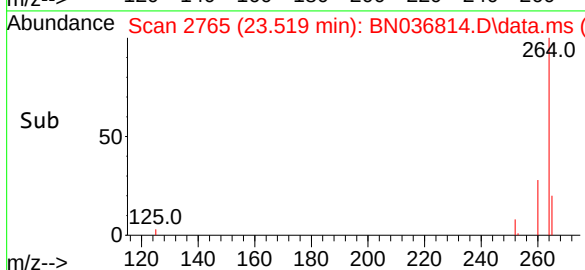
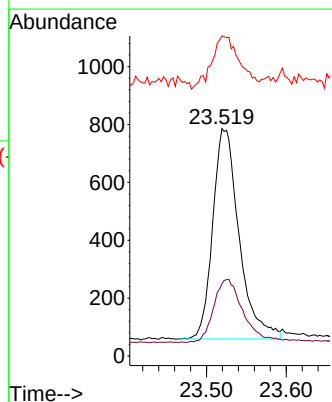
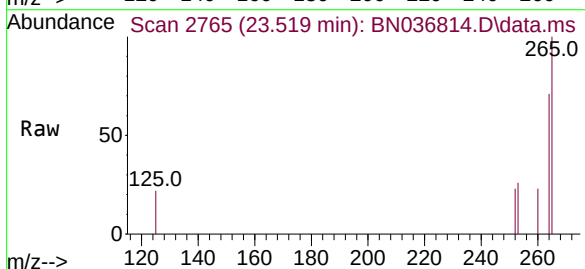
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

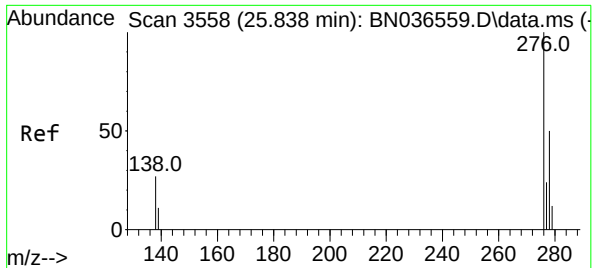
Tgt Ion:149 Resp: 6222
Ion Ratio Lower Upper
149 100
167 26.2 20.7 31.1
279 2.8 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.519 min Scan# 2765
Delta R.T. -0.035 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:264 Resp: 1670
Ion Ratio Lower Upper
264 100
260 31.8 22.6 33.8
265 140.7 88.1 132.1#

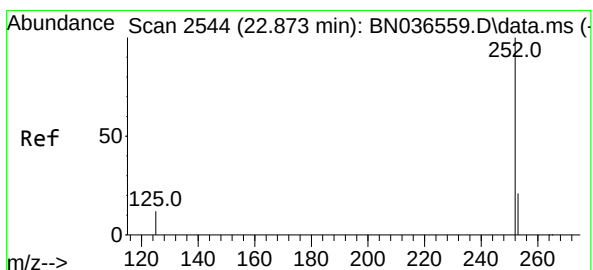
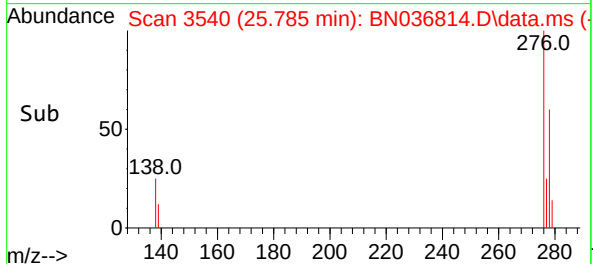
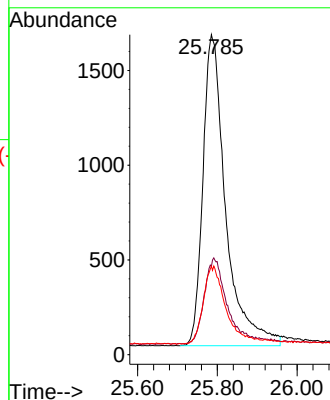
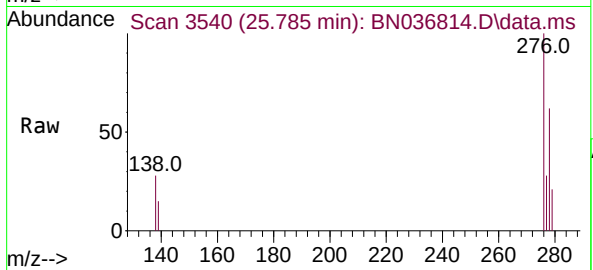




#36
Indeno(1,2,3-cd)pyrene
Concen: 1.081 ng
RT: 25.785 min Scan# 3540
Delta R.T. -0.053 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

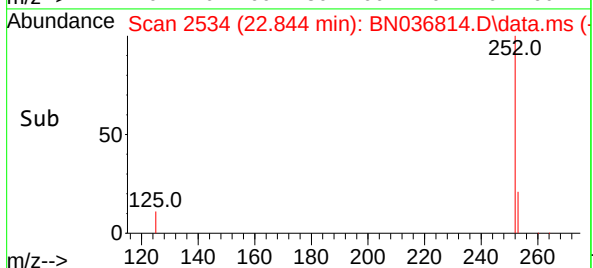
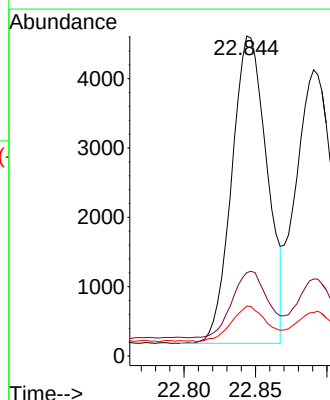
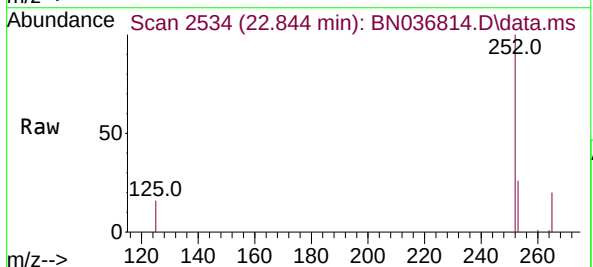
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

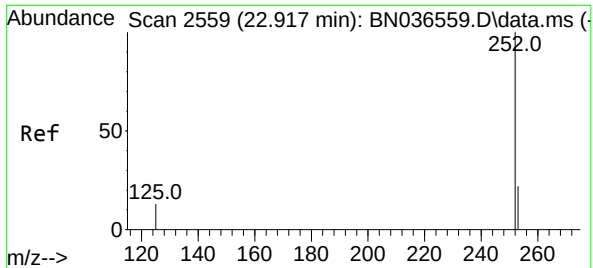
Tgt Ion:276 Resp: 6515
Ion Ratio Lower Upper
276 100
138 27.2 23.4 35.2
277 24.3 20.0 30.0



#37
Benzo(b)fluoranthene
Concen: 1.252 ng
RT: 22.844 min Scan# 2534
Delta R.T. -0.029 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:252 Resp: 7608
Ion Ratio Lower Upper
252 100
253 26.1 23.9 35.9
125 15.6 17.4 26.2#

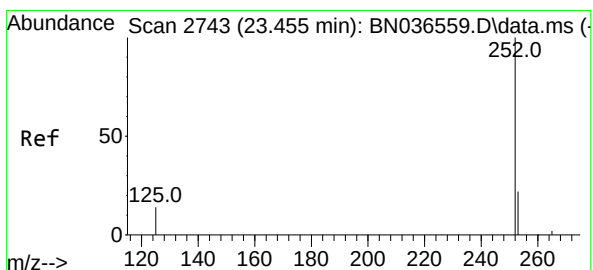
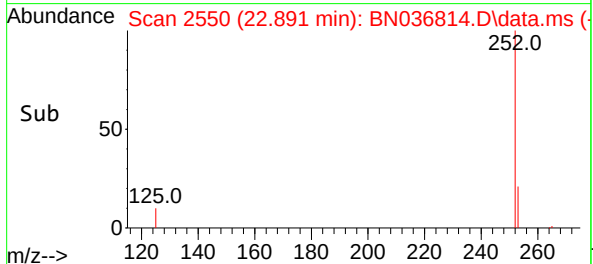
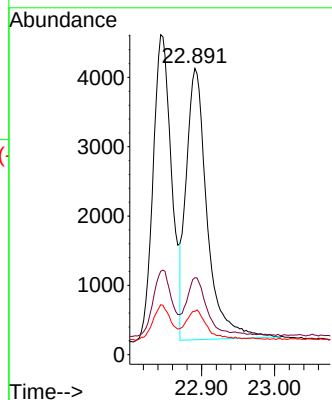
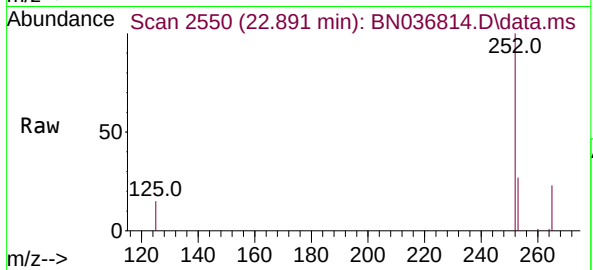




#38
Benzo(k)fluoranthene
Concen: 1.220 ng
RT: 22.891 min Scan# 21
Delta R.T. -0.026 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

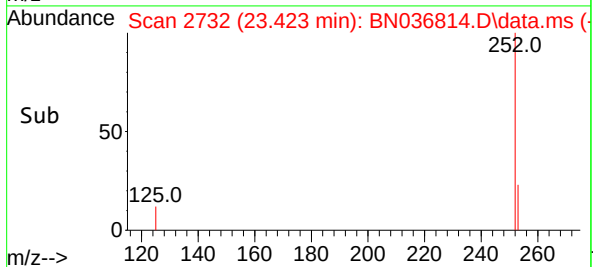
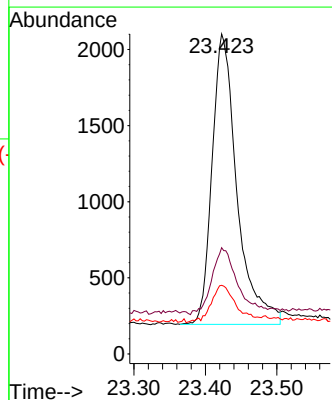
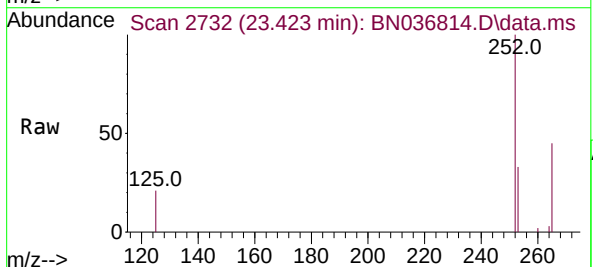
Instrument :
BNA_N
ClientSampleId :
PB167269BSD

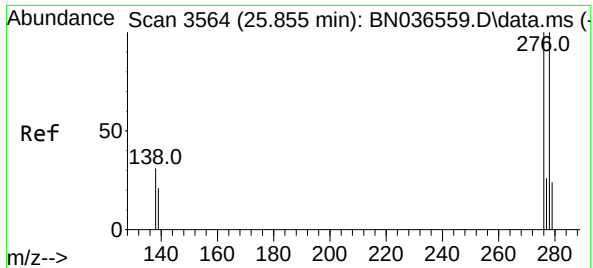
Tgt Ion:252 Resp: 7777
Ion Ratio Lower Upper
252 100
253 26.9 24.6 36.8
125 15.2 17.8 26.8#



#39
Benzo(a)pyrene
Concen: 0.902 ng
RT: 23.423 min Scan# 2732
Delta R.T. -0.032 min
Lab File: BN036814.D
Acq: 31 Mar 2025 14:16

Tgt Ion:252 Resp: 4618
Ion Ratio Lower Upper
252 100
253 33.2 27.8 41.8
125 21.5 22.7 34.1#





#40

Dibenzo(a,h)anthracene

Concen: 1.279 ng

RT: 25.803 min Scan# 31

Delta R.T. -0.053 min

Lab File: BN036814.D

Acq: 31 Mar 2025 14:16

Instrument :

BNA_N

ClientSampleId :

PB167269BSD

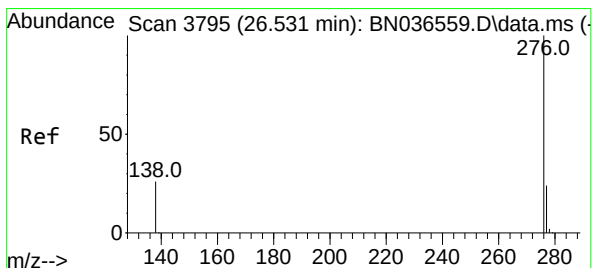
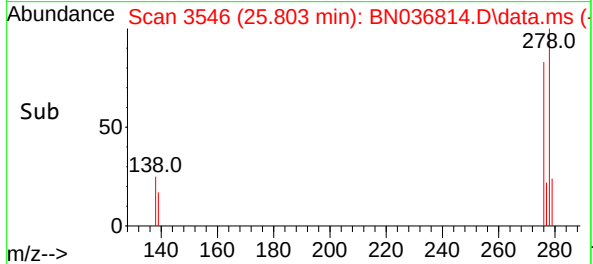
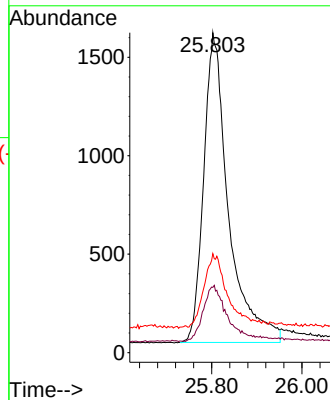
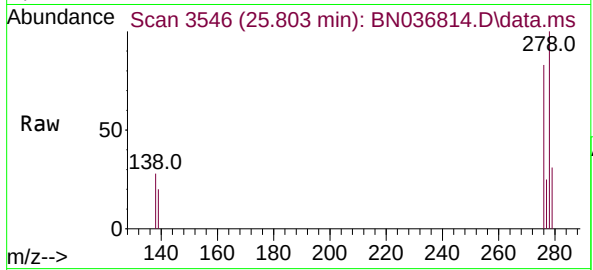
Tgt Ion:278 Resp: 6002

Ion Ratio Lower Upper

278 100

139 20.4 20.8 31.2#

279 31.0 28.8 43.2



#41

Benzo(g,h,i)perylene

Concen: 0.915 ng

RT: 26.475 min Scan# 3776

Delta R.T. -0.056 min

Lab File: BN036814.D

Acq: 31 Mar 2025 14:16

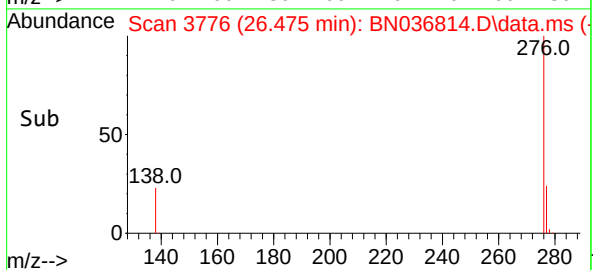
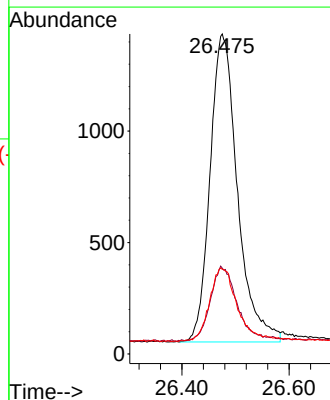
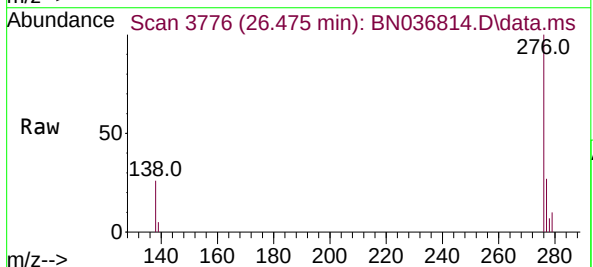
Tgt Ion:276 Resp: 4911

Ion Ratio Lower Upper

276 100

277 26.8 22.2 33.4

138 26.5 24.1 36.1



Manual Integration Report

Sequence:	BN031025	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN036557.D	1,4-Dioxane	anahy	3/11/2025 9:18:29 AM	Jagrut	3/11/2025 10:27:49 AM	Peak Integrated by Software
SSTDICC0.2	BN036558.D	1,4-Dioxane	anahy	3/11/2025 9:19:12 AM	Jagrut	3/11/2025 10:27:51 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Benzo(k)fluoranthene	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software
SSTDCCC0.4	BN036572.D	Chrysene-d12	anahy	3/11/2025 9:20:59 AM	Jagrut	3/11/2025 10:27:55 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	bn032725	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN036736.D	Benzo(k)fluoranthene	anahy	3/28/2025 11:44:03 AM	Jagrut	4/1/2025 3:49:26 PM	Peak Integrated by Software
SSTDCCC0.4	BN036738.D	Benzo(k)fluoranthene	anahy	3/28/2025 11:44:53 AM	Jagrut	4/1/2025 3:49:29 PM	Peak Integrated by Software
SSTDCCC0.4	BN036755.D	Benzo(g,h,i)perylene	anahy	3/28/2025 11:51:02 AM	Jagrut	4/1/2025 3:49:38 PM	Peak Integrated by Software
SSTDCCC0.4	BN036755.D	Benzo(k)fluoranthene	anahy	3/28/2025 11:51:02 AM	Jagrut	4/1/2025 3:49:38 PM	Peak Integrated by Software
SSTDCCC0.4	BN036757.D	Benzo(k)fluoranthene	anahy	3/28/2025 11:57:23 AM	Jagrut	4/1/2025 3:49:40 PM	Peak Integrated by Software
SSTDCCC0.4	BN036771.D	Benzo(k)fluoranthene	anahy	3/31/2025 10:10:02 AM	Jagrut	4/1/2025 3:49:52 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

BN032825

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN036789.D	Benzo(k)fluoranthene	anahy	3/31/2025 12:00:29 PM	Jagrut	3/31/2025 2:10:24 PM	Peak Integrated by Software
SSTDCCC0.4	BN036789.D	Dibenzo(a,h)anthracene	anahy	3/31/2025 12:00:29 PM	Jagrut	3/31/2025 2:10:24 PM	Peak Integrated by Software
SSTDCCC0.4	BN036791.D	Benzo(k)fluoranthene	anahy	3/31/2025 12:01:09 PM	Jagrut	3/31/2025 2:10:27 PM	Peak Integrated by Software
SSTDCCC0.4	BN036807.D	Benzo(k)fluoranthene	anahy	3/31/2025 1:31:19 PM	Jagrut	3/31/2025 2:10:38 PM	Peak Integrated by Software
SSTDCCC0.4	BN036807.D	Dibenzo(a,h)anthracene	anahy	3/31/2025 1:31:19 PM	Jagrut	3/31/2025 2:10:38 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN033125	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN036809.D	Benzo(k)fluoranthene	Rahul	3/31/2025 5:32:40 PM	Jagrut	4/1/2025 10:17:11 AM	Peak Integrated by Software
SSTDCCC0.4	BN036815.D	Benzo(k)fluoranthene	Rahul	3/31/2025 5:32:48 PM	Jagrut	4/1/2025 10:17:19 AM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN031025

Review By	anahy	Review On	3/11/2025 9:36:11 AM
Supervise By	Jagrut	Supervise On	3/11/2025 10:28:11 AM
SubDirectory	BN031025	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036556.D	10 Mar 2025 11:03	RC/JU	Ok
2	SSTDIC0.1	BN036557.D	10 Mar 2025 11:42	RC/JU	Ok,M
3	SSTDIC0.2	BN036558.D	10 Mar 2025 12:18	RC/JU	Ok,M
4	SSTDIC0.4	BN036559.D	10 Mar 2025 12:54	RC/JU	Ok
5	SSTDIC0.8	BN036560.D	10 Mar 2025 13:31	RC/JU	Ok
6	SSTDIC1.6	BN036561.D	10 Mar 2025 14:07	RC/JU	Ok
7	SSTDIC3.2	BN036562.D	10 Mar 2025 14:43	RC/JU	Ok
8	SSTDIC5.0	BN036563.D	10 Mar 2025 15:19	RC/JU	Ok
9	SSTDICV0.4	BN036564.D	10 Mar 2025 16:38	RC/JU	Ok
10	PB167057BL	BN036565.D	10 Mar 2025 17:14	RC/JU	Ok
11	Q1531-03	BN036566.D	10 Mar 2025 17:50	RC/JU	Ok
12	Q1531-04	BN036567.D	10 Mar 2025 18:26	RC/JU	Ok
13	Q1531-05	BN036568.D	10 Mar 2025 19:02	RC/JU	Ok
14	Q1531-06	BN036569.D	10 Mar 2025 19:38	RC/JU	Ok,M
15	Q1531-13	BN036570.D	10 Mar 2025 20:14	RC/JU	Ok
16	Q1531-14	BN036571.D	10 Mar 2025 20:50	RC/JU	Ok
17	SSTDIC0.4	BN036572.D	10 Mar 2025 21:26	RC/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM
SubDirectory	BN032725	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036728.D	27 Mar 2025 09:10	RC/JU	Ok
2	SSTDCCC0.4	BN036729.D	27 Mar 2025 09:49	RC/JU	Ok
3	PB167232BL	BN036730.D	27 Mar 2025 10:25	RC/JU	Ok
4	Q1608-01	BN036731.D	27 Mar 2025 11:01	RC/JU	Ok
5	Q1608-02	BN036732.D	27 Mar 2025 11:38	RC/JU	Ok
6	Q1621-01	BN036733.D	27 Mar 2025 12:14	RC/JU	Dilution
7	Q1621-02	BN036734.D	27 Mar 2025 12:50	RC/JU	ReRun
8	Q1621-03	BN036735.D	27 Mar 2025 13:26	RC/JU	ReRun
9	SSTDCCC0.4	BN036736.D	27 Mar 2025 14:02	RC/JU	Ok,M
10	DFTPP	BN036737.D	27 Mar 2025 14:38	RC/JU	Ok
11	SSTDCCC0.4	BN036738.D	27 Mar 2025 15:38	RC/JU	Ok,M
12	PB167251BL	BN036739.D	27 Mar 2025 16:14	RC/JU	Ok
13	Q1621-02	BN036740.D	27 Mar 2025 16:50	RC/JU	Ok
14	Q1621-03	BN036741.D	27 Mar 2025 17:26	RC/JU	Ok
15	Q1621-01DL	BN036742.D	27 Mar 2025 18:02	RC/JU	Ok
16	Q1608-09	BN036743.D	27 Mar 2025 18:39	RC/JU	Ok
17	Q1608-10	BN036744.D	27 Mar 2025 19:15	RC/JU	Dilution
18	Q1608-03	BN036745.D	27 Mar 2025 19:51	RC/JU	Ok,M
19	Q1608-04	BN036746.D	27 Mar 2025 20:27	RC/JU	Ok
20	Q1608-14	BN036747.D	27 Mar 2025 21:03	RC/JU	Dilution
21	Q1608-15	BN036748.D	27 Mar 2025 21:39	RC/JU	Dilution

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM
SubDirectory	BN032725	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1608-16	BN036749.D	27 Mar 2025 22:15	RC/JU	Ok
23	Q1608-17	BN036750.D	27 Mar 2025 22:51	RC/JU	Dilution
24	Q1608-18	BN036751.D	27 Mar 2025 23:27	RC/JU	Dilution
25	Q1608-19	BN036752.D	28 Mar 2025 00:03	RC/JU	Ok
26	Q1608-20	BN036753.D	28 Mar 2025 00:39	RC/JU	Ok,M
27	PB167232BS	BN036754.D	28 Mar 2025 01:16	RC/JU	Ok,M
28	SSTDCCC0.4	BN036755.D	28 Mar 2025 01:52	RC/JU	Ok,M
29	DFTPP	BN036756.D	28 Mar 2025 03:07	RC/JU	Ok
30	SSTDCCC0.4	BN036757.D	28 Mar 2025 03:46	RC/JU	Ok,M
31	PB167269BL	BN036758.D	28 Mar 2025 04:22	RC/JU	Ok
32	Q1608-21	BN036759.D	28 Mar 2025 04:58	RC/JU	Ok
33	Q1608-22	BN036760.D	28 Mar 2025 05:34	RC/JU	Ok
34	Q1608-23	BN036761.D	28 Mar 2025 06:10	RC/JU	Dilution
35	Q1608-24	BN036762.D	28 Mar 2025 06:46	RC/JU	Ok
36	Q1608-25	BN036763.D	28 Mar 2025 07:22	RC/JU	Ok,M
37	Q1608-26	BN036764.D	28 Mar 2025 07:58	RC/JU	Ok
38	Q1608-11	BN036765.D	28 Mar 2025 08:34	RC/JU	Ok
39	Q1608-12MS	BN036766.D	28 Mar 2025 10:22	RC/JU	Ok,M
40	Q1608-13MSD	BN036767.D	28 Mar 2025 10:58	RC/JU	Ok
41	Q1629-03	BN036768.D	28 Mar 2025 11:34	RC/JU	Ok
42	Q1629-04MS	BN036769.D	28 Mar 2025 12:47	RC/JU	Ok,M
43	Q1629-05MSD	BN036770.D	28 Mar 2025 13:22	RC/JU	Ok,M
44	SSTDCCC0.4	BN036771.D	28 Mar 2025 13:58	RC/JU	Ok,M

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM
SubDirectory	BN032725	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

M : Manual Integration

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Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN032825

Review By	anahy	Review On	3/31/2025 1:32:07 PM
Supervise By	Jagrut	Supervise On	3/31/2025 2:10:59 PM
SubDirectory	BN032825	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036772.D	28 Mar 2025 14:34	RC/JU	Ok
2	SSTDCCC0.4	BN036773.D	28 Mar 2025 15:14	RC/JU	Ok
3	PB167159BL	BN036774.D	28 Mar 2025 15:49	RC/JU	Ok
4	Q1608-10DL	BN036775.D	28 Mar 2025 16:25	RC/JU	Ok
5	Q1608-14DL	BN036776.D	28 Mar 2025 17:02	RC/JU	Ok
6	Q1608-15DL	BN036777.D	28 Mar 2025 17:38	RC/JU	Ok
7	Q1608-17DL	BN036778.D	28 Mar 2025 18:14	RC/JU	Ok
8	Q1608-18DL	BN036779.D	28 Mar 2025 18:50	RC/JU	Ok
9	Q1608-23DL	BN036780.D	28 Mar 2025 19:26	RC/JU	Ok
10	Q1608-27	BN036781.D	28 Mar 2025 20:02	RC/JU	Ok
11	Q1608-28	BN036782.D	28 Mar 2025 20:38	RC/JU	Ok,M
12	Q1608-05	BN036783.D	28 Mar 2025 21:14	RC/JU	Ok
13	Q1608-06	BN036784.D	28 Mar 2025 21:51	RC/JU	Ok
14	Q1608-07	BN036785.D	28 Mar 2025 22:26	RC/JU	Ok
15	Q1608-08	BN036786.D	28 Mar 2025 23:02	RC/JU	Ok
16	PB167251BS	BN036787.D	28 Mar 2025 23:38	RC/JU	Ok,M
17	PB167251BSD	BN036788.D	29 Mar 2025 00:14	RC/JU	Ok,M
18	SSTDCCC0.4	BN036789.D	29 Mar 2025 00:50	RC/JU	Ok,M
19	DFTPP	BN036790.D	29 Mar 2025 01:26	RC/JU	Ok
20	SSTDCCC0.4	BN036791.D	29 Mar 2025 02:44	RC/JU	Ok,M
21	PB167295BL	BN036792.D	29 Mar 2025 03:20	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN032825

Review By	anahy	Review On	3/31/2025 1:32:07 PM
Supervise By	Jagrut	Supervise On	3/31/2025 2:10:59 PM
SubDirectory	BN032825	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1620-04	BN036793.D	29 Mar 2025 03:56	RC/JU	Ok
23	Q1620-01	BN036794.D	29 Mar 2025 04:32	RC/JU	Ok
24	Q1620-02	BN036795.D	29 Mar 2025 05:08	RC/JU	Ok
25	Q1620-03	BN036796.D	29 Mar 2025 05:43	RC/JU	Ok
26	Q1629-01	BN036797.D	29 Mar 2025 06:19	RC/JU	Ok
27	Q1629-02	BN036798.D	29 Mar 2025 06:56	RC/JU	Ok
28	Q1629-08	BN036799.D	29 Mar 2025 07:32	RC/JU	Ok
29	Q1629-09	BN036800.D	29 Mar 2025 08:08	RC/JU	Ok
30	Q1629-10	BN036801.D	29 Mar 2025 08:44	RC/JU	Ok
31	Q1629-11	BN036802.D	29 Mar 2025 09:20	RC/JU	Ok
32	Q1629-07	BN036803.D	29 Mar 2025 09:57	RC/JU	Ok,M
33	PB167295BS	BN036804.D	29 Mar 2025 10:33	RC/JU	Ok,M
34	PB167269BSD	BN036805.D	29 Mar 2025 11:09	RC/JU	Not Ok
35	PB167269BS	BN036806.D	29 Mar 2025 11:45	RC/JU	Ok
36	SSTDCCC0.4	BN036807.D	29 Mar 2025 12:21	RC/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # BN033125

Review By	Rahul	Review On	3/31/2025 5:33:01 PM
Supervise By	Jagrut	Supervise On	4/1/2025 10:28:33 AM
SubDirectory	BN033125	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn031025
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	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036808.D	31 Mar 2025 10:00	RC/JU	Ok
2	SSTDCCC0.4	BN036809.D	31 Mar 2025 10:39	RC/JU	Ok,M
3	PB167251BL	BN036810.D	31 Mar 2025 11:15	RC/JU	Ok
4	Q1629-14	BN036811.D	31 Mar 2025 11:51	RC/JU	Ok
5	Q1629-15MS	BN036812.D	31 Mar 2025 13:04	RC/JU	Ok,M
6	Q1629-16MSD	BN036813.D	31 Mar 2025 13:40	RC/JU	Ok,M
7	PB167269BSD	BN036814.D	31 Mar 2025 14:16	RC/JU	Ok
8	SSTDCCC0.4	BN036815.D	31 Mar 2025 15:08	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN031025

Review By	anahy	Review On	3/11/2025 9:36:11 AM
Supervise By	Jagrut	Supervise On	3/11/2025 10:28:11 AM
SubDirectory	BN031025	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036556.D	10 Mar 2025 11:03		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036557.D	10 Mar 2025 11:42	Compound #20 removed.	RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN036558.D	10 Mar 2025 12:18		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN036559.D	10 Mar 2025 12:54		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036560.D	10 Mar 2025 13:31		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036561.D	10 Mar 2025 14:07	Compound #20 kept on QR.	RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036562.D	10 Mar 2025 14:43	Method is good for DOD.	RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036563.D	10 Mar 2025 15:19		RC/JU	Ok
9	SSTDICV0.4	ICVBN031025	BN036564.D	10 Mar 2025 16:38		RC/JU	Ok
10	PB167057BL	PB167057BL	BN036565.D	10 Mar 2025 17:14		RC/JU	Ok
11	Q1531-03	RE122D1-20250305	BN036566.D	10 Mar 2025 17:50		RC/JU	Ok
12	Q1531-04	RE126D1-20250306	BN036567.D	10 Mar 2025 18:26		RC/JU	Ok
13	Q1531-05	RE126D2-20250306	BN036568.D	10 Mar 2025 19:02		RC/JU	Ok
14	Q1531-06	DUP01-20250306	BN036569.D	10 Mar 2025 19:38		RC/JU	Ok,M
15	Q1531-13	RE108D1-20250306	BN036570.D	10 Mar 2025 20:14		RC/JU	Ok
16	Q1531-14	RE105D1-20250306	BN036571.D	10 Mar 2025 20:50		RC/JU	Ok
17	SSTDCCC0.4	SSTDCCC0.4EC	BN036572.D	10 Mar 2025 21:26		RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM
SubDirectory	BN032725	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036728.D	27 Mar 2025 09:10		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036729.D	27 Mar 2025 09:49		RC/JU	Ok
3	PB167232BL	PB167232BL	BN036730.D	27 Mar 2025 10:25		RC/JU	Ok
4	Q1608-01	TT172S1-20250317	BN036731.D	27 Mar 2025 11:01		RC/JU	Ok
5	Q1608-02	RE139D1-20250317	BN036732.D	27 Mar 2025 11:38		RC/JU	Ok
6	Q1621-01	RW5-SP100-20250320	BN036733.D	27 Mar 2025 12:14	Internal Standard Fail, need 5X Dilution	RC/JU	Dilution
7	Q1621-02	RW5-SP201-20250320	BN036734.D	27 Mar 2025 12:50	Internal Standard Fail	RC/JU	ReRun
8	Q1621-03	RW5-SP303-20250320	BN036735.D	27 Mar 2025 13:26	Internal Standard Fail	RC/JU	ReRun
9	SSTDCCC0.4	SSTDCCC0.4EC	BN036736.D	27 Mar 2025 14:02		RC/JU	Ok,M
10	DFTPP	DFTPP	BN036737.D	27 Mar 2025 14:38		RC/JU	Ok
11	SSTDCCC0.4	SSTDCCC0.4	BN036738.D	27 Mar 2025 15:38		RC/JU	Ok,M
12	PB167251BL	PB167251BL	BN036739.D	27 Mar 2025 16:14		RC/JU	Ok
13	Q1621-02	RW5-SP201-20250320	BN036740.D	27 Mar 2025 16:50		RC/JU	Ok
14	Q1621-03	RW5-SP303-20250320	BN036741.D	27 Mar 2025 17:26		RC/JU	Ok
15	Q1621-01DL	RW5-SP100-20250320	BN036742.D	27 Mar 2025 18:02		RC/JU	Ok
16	Q1608-09	GM38-RW3-MW1-2025	BN036743.D	27 Mar 2025 18:39		RC/JU	Ok
17	Q1608-10	DUP08-20250318	BN036744.D	27 Mar 2025 19:15	Need 2X Dilution	RC/JU	Dilution

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM
SubDirectory	BN032725	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	Q1608-03	RE139D2-20250317	BN036745.D	27 Mar 2025 19:51		RC/JU	Ok,M
19	Q1608-04	TT205S1-20250317	BN036746.D	27 Mar 2025 20:27		RC/JU	Ok
20	Q1608-14	RE132D2-20250318	BN036747.D	27 Mar 2025 21:03	Need 2X Dilution	RC/JU	Dilution
21	Q1608-15	RE132D3-20250318	BN036748.D	27 Mar 2025 21:39	Need 2X Dilution	RC/JU	Dilution
22	Q1608-16	RE132D4-20250318	BN036749.D	27 Mar 2025 22:15		RC/JU	Ok
23	Q1608-17	RE132D5-20250318	BN036750.D	27 Mar 2025 22:51	Need 2X Dilution	RC/JU	Dilution
24	Q1608-18	RE132D6-20250318	BN036751.D	27 Mar 2025 23:27	Need 2X Dilution	RC/JU	Dilution
25	Q1608-19	RE132D7-20250318	BN036752.D	28 Mar 2025 00:03		RC/JU	Ok
26	Q1608-20	RE117D2-20250319	BN036753.D	28 Mar 2025 00:39		RC/JU	Ok,M
27	PB167232BS	PB167232BS	BN036754.D	28 Mar 2025 01:16		RC/JU	Ok,M
28	SSTDCCC0.4	SSTDCCC0.4EC	BN036755.D	28 Mar 2025 01:52		RC/JU	Ok,M
29	DFTPP	DFTPP	BN036756.D	28 Mar 2025 03:07		RC/JU	Ok
30	SSTDCCC0.4	SSTDCCC0.4	BN036757.D	28 Mar 2025 03:46		RC/JU	Ok,M
31	PB167269BL	PB167269BL	BN036758.D	28 Mar 2025 04:22		RC/JU	Ok
32	Q1608-21	TT101D2-20250319	BN036759.D	28 Mar 2025 04:58		RC/JU	Ok
33	Q1608-22	TT161S1-20250319	BN036760.D	28 Mar 2025 05:34		RC/JU	Ok
34	Q1608-23	TT189D2-20250319	BN036761.D	28 Mar 2025 06:10	Need 2X Dilution	RC/JU	Dilution
35	Q1608-24	RW8-MW01S-2025031	BN036762.D	28 Mar 2025 06:46		RC/JU	Ok
36	Q1608-25	RW8-MW01D1-202503	BN036763.D	28 Mar 2025 07:22		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN032725

Review By	anahy	Review On	3/31/2025 10:10:21 AM
Supervise By	Jagrut	Supervise On	4/1/2025 2:23:07 PM
SubDirectory	BN032725	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

37	Q1608-26	RW8-MW01D2-202503	BN036764.D	28 Mar 2025 07:58		RC/JU	Ok
38	Q1608-11	RE132D1-20250318	BN036765.D	28 Mar 2025 08:34		RC/JU	Ok
39	Q1608-12MS	RE132D1-20250318MS	BN036766.D	28 Mar 2025 10:22		RC/JU	Ok,M
40	Q1608-13MSD	RE132D1-20250318MS	BN036767.D	28 Mar 2025 10:58		RC/JU	Ok
41	Q1629-03	TT188S1-20250320	BN036768.D	28 Mar 2025 11:34		RC/JU	Ok
42	Q1629-04MS	TT188S1-20250320MS	BN036769.D	28 Mar 2025 12:47		RC/JU	Ok,M
43	Q1629-05MSD	TT188S1-20250320MS	BN036770.D	28 Mar 2025 13:22		RC/JU	Ok,M
44	SSTDCCC0.4	SSTDCCC0.4EC	BN036771.D	28 Mar 2025 13:58		RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN032825

Review By	anahy	Review On	3/31/2025 1:32:07 PM
Supervise By	Jagrut	Supervise On	3/31/2025 2:10:59 PM
SubDirectory	BN032825	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036772.D	28 Mar 2025 14:34		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036773.D	28 Mar 2025 15:14		RC/JU	Ok
3	PB167159BL	PB167159BL	BN036774.D	28 Mar 2025 15:49		RC/JU	Ok
4	Q1608-10DL	DUP08-20250318DL	BN036775.D	28 Mar 2025 16:25		RC/JU	Ok
5	Q1608-14DL	RE132D2-20250318DL	BN036776.D	28 Mar 2025 17:02		RC/JU	Ok
6	Q1608-15DL	RE132D3-20250318DL	BN036777.D	28 Mar 2025 17:38		RC/JU	Ok
7	Q1608-17DL	RE132D5-20250318DL	BN036778.D	28 Mar 2025 18:14		RC/JU	Ok
8	Q1608-18DL	RE132D6-20250318DL	BN036779.D	28 Mar 2025 18:50		RC/JU	Ok
9	Q1608-23DL	TT189D2-20250319DL	BN036780.D	28 Mar 2025 19:26		RC/JU	Ok
10	Q1608-27	RW8-MW01D3-202503	BN036781.D	28 Mar 2025 20:02		RC/JU	Ok
11	Q1608-28	DUP09-20250319	BN036782.D	28 Mar 2025 20:38		RC/JU	Ok,M
12	Q1608-05	DUP07-20250317	BN036783.D	28 Mar 2025 21:14		RC/JU	Ok
13	Q1608-06	TT163S1-20250317	BN036784.D	28 Mar 2025 21:51		RC/JU	Ok
14	Q1608-07	RW11-MW01S-202503	BN036785.D	28 Mar 2025 22:26		RC/JU	Ok
15	Q1608-08	RW11-MW01I-2025031	BN036786.D	28 Mar 2025 23:02		RC/JU	Ok
16	PB167251BS	PB167251BS	BN036787.D	28 Mar 2025 23:38		RC/JU	Ok,M
17	PB167251BSD	PB167251BSD	BN036788.D	29 Mar 2025 00:14		RC/JU	Ok,M
18	SSTDCCC0.4	SSTDCCC0.4EC	BN036789.D	29 Mar 2025 00:50		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN032825

Review By	anahy	Review On	3/31/2025 1:32:07 PM
Supervise By	Jagrut	Supervise On	3/31/2025 2:10:59 PM
SubDirectory	BN032825	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	DFTPP	DFTPP	BN036790.D	29 Mar 2025 01:26		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN036791.D	29 Mar 2025 02:44		RC/JU	Ok,M
21	PB167295BL	PB167295BL	BN036792.D	29 Mar 2025 03:20		RC/JU	Ok
22	Q1620-04	RW7-SP303-20250320	BN036793.D	29 Mar 2025 03:56		RC/JU	Ok
23	Q1620-01	RW7-SP100-20250320	BN036794.D	29 Mar 2025 04:32		RC/JU	Ok
24	Q1620-02	RW7-SP201-20250320	BN036795.D	29 Mar 2025 05:08		RC/JU	Ok
25	Q1620-03	RW7-SP302-20250320	BN036796.D	29 Mar 2025 05:43		RC/JU	Ok
26	Q1629-01	TT1741I-20250320	BN036797.D	29 Mar 2025 06:19		RC/JU	Ok
27	Q1629-02	TT162S1-20250320	BN036798.D	29 Mar 2025 06:56		RC/JU	Ok
28	Q1629-08	RW09-MW01D2-20250	BN036799.D	29 Mar 2025 07:32		RC/JU	Ok
29	Q1629-09	RW09-MW01D3-20250	BN036800.D	29 Mar 2025 08:08		RC/JU	Ok
30	Q1629-10	TT150S1-20250320	BN036801.D	29 Mar 2025 08:44		RC/JU	Ok
31	Q1629-11	FB03-20250321	BN036802.D	29 Mar 2025 09:20		RC/JU	Ok
32	Q1629-07	RW09-MW01D1-20250	BN036803.D	29 Mar 2025 09:57		RC/JU	Ok,M
33	PB167295BS	PB167295BS	BN036804.D	29 Mar 2025 10:33		RC/JU	Ok,M
34	PB167269BSD	PB167269BSD	BN036805.D	29 Mar 2025 11:09	Surrogate Fail	RC/JU	Not Ok
35	PB167269BS	PB167269BS	BN036806.D	29 Mar 2025 11:45		RC/JU	Ok
36	SSTDCCC0.4	SSTDCCC0.4EC	BN036807.D	29 Mar 2025 12:21		RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN033125

Review By	Rahul	Review On	3/31/2025 5:33:01 PM
Supervise By	Jagrut	Supervise On	4/1/2025 10:28:33 AM
SubDirectory	BN033125	HP Acquire Method	BNA_N, 8270_HP Processing Method bn031025

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	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036808.D	31 Mar 2025 10:00		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036809.D	31 Mar 2025 10:39		RC/JU	Ok,M
3	PB167251BL	PB167251BL	BN036810.D	31 Mar 2025 11:15		RC/JU	Ok
4	Q1629-14	RW09-MW01S-202503	BN036811.D	31 Mar 2025 11:51		RC/JU	Ok
5	Q1629-15MS	RW09-MW01S-202503	BN036812.D	31 Mar 2025 13:04		RC/JU	Ok,M
6	Q1629-16MSD	RW09-MW01S-202503	BN036813.D	31 Mar 2025 13:40		RC/JU	Ok,M
7	PB167269BSD	PB167269BSD	BN036814.D	31 Mar 2025 14:16		RC/JU	Ok
8	SSTDCCC0.4	SSTDCCC0.4EC	BN036815.D	31 Mar 2025 15:08		RC/JU	Ok,M

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weight By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 03/24/2025

Extraction Start Time : 08:15

Extraction End Date : 03/24/2025

Extraction End Time : 13:10

Concentration By: EH

Supervisor By : rajesh

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6739
Surrogate	1.0ML	0.4 PPM	SP6755
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	E3904
Baked Na2SO4	N/A	EP2595
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
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

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/24/25	RP (Extraction)	AEISVDC
13:15	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/24/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167269BL	SBLK269	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			SEP-01
PB167269BS	SLCS269	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			2
PB167269BS D	SLCSD269	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			3
Q1620-01	RW7-SP100-20250320	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			4
Q1620-02	RW7-SP201-20250320	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			5
Q1620-03	RW7-SP302-20250320	SVOC-SIMGrou p1	990	6	ritesh	rajesh	1			6
Q1620-04	RW7-SP303-20250320	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1	A		7
Q1621-01	RW5-SP100-20250320	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			8
Q1621-02	RW5-SP201-20250320	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			9
Q1621-03	RW5-SP303-20250320	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			10

* Extracts relinquished on the same date as received.

3/24/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1620 WorkList ID : 188462 Department : Extraction Date : 03-24-2025 08:10:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1620-01	RW7-SP100-20250320	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	I41	03/20/2025	8270-Modified
Q1620-02	RW7-SP201-20250320	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	I41	03/20/2025	8270-Modified
Q1620-03	RW7-SP302-20250320	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	I41	03/20/2025	8270-Modified
Q1620-04	RW7-SP303-20250320	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	I41	03/20/2025	8270-Modified
Q1621-01	RW5-SP100-20250320	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	I31	03/20/2025	8270-Modified
Q1621-02	RW5-SP201-20250320	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	I31	03/20/2025	8270-Modified
Q1621-03	RW5-SP303-20250320	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	I31	03/20/2025	8270-Modified

Date/Time 03/24/24 8:13
Raw Sample Received by: RJ (Ext 1032)
Raw Sample Relinquished by: CP SM

Date/Time 03/24/24 8:40
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (Ext 1032)

Prep Standard - Chemical Standard Summary

Order ID : Q1620
Test : SVOC-SIMGroup1
Prepbatch ID : PB167269,
Sequence ID/Qc Batch ID: BN032725,BN032825,BN033125,

Standard ID :
 EP2559,EP2565,EP2595,SP6682,SP6683,SP6684,SP6717,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6755,SP6757,

Chemical ID :
 1ul/100ul
 sample,E3551,E3657,E3828,E3871,E3873,E3874,E3902,E3904,M5173,S10104,S10246,S11074,S11495,S11650,S11785,S11831,S11832,S12114,S12142,S12189,S12195,S12208,S12216,S12270,S12328,S12469,S12478,S12517,S12525,S12577,S12651,S12791,S12966,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	EP2595	03/17/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 03/17/2025

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>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE FROM 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = 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	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = 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>
3895	50 ug/ml DFTTP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel
								01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = 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>
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

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>
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

<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 Patel 02/07/2025

FROM 0.68000ml of E3874 + 0.01000ml of SP6682 + 0.32000ml 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>
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

<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

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>
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

<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

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>
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

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	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

<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	SP6755	03/20/2025	07/24/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								04/01/2025

FROM 0.00400ml of S12195 + 0.00800ml of S12216 + 0.02000ml of S11832 + 99.96800ml of E3902 = Final Quantity: 100.000 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
FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml								

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

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

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	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

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

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 #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	03/31/2025	01/15/2025 / Rahul	03/18/2022 / Christian	S10246

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	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

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	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

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	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

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	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

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

CHEMICAL RECEIPT LOG BOOK

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	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	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

[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	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	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

[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	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	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

CHEMICAL RECEIPT LOG BOOK

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 #
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	≤ -10 °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 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 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
Chemist



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667
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 : March 31, 2025 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

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

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:

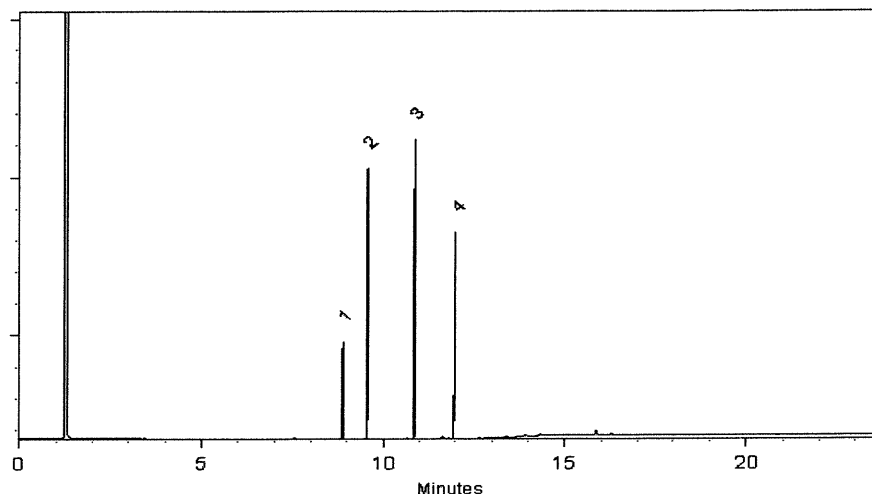
250°C

Det. Temp:

330°C

Det. Type:

FID



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.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

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

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

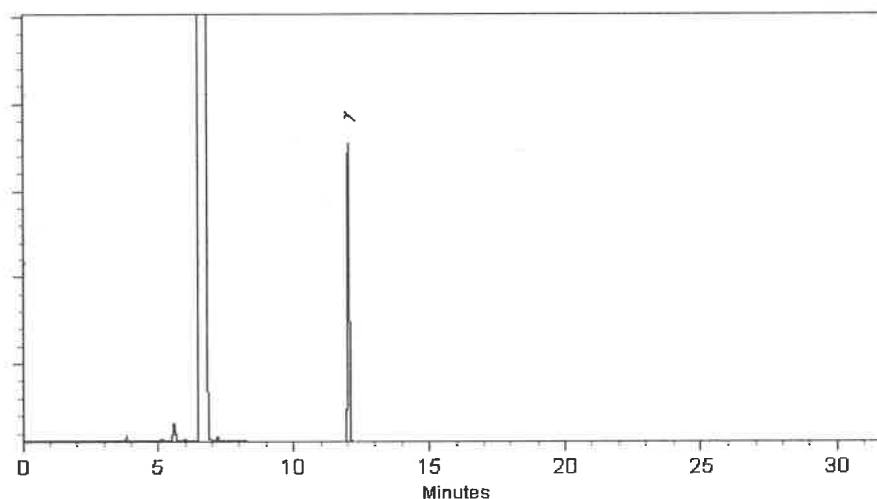
200°C

Det. Temp:

250°C

Det. Type:

FID



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

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

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



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

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

CERTIFICATE OF ANALYSIS

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

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

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

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

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

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

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

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

Storage: Room Temperature

Pellets

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

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

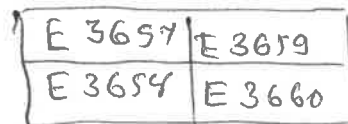
This document has been electronically produced and is valid without a signature.

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

Additional Information

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

Product meets analytical specifications of the grades listed.



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

avantor™



Material No.: 9266-A4

Batch No.: 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

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

avantor



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
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 3871

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

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3902

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

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

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.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:	555872	Lot No.:	A0201728
Description:	Custom Pentachlorophenol Standard		
	Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul		
Container Size:	2 mL	Pkg Amt:	> 1 mL
Expiration Date:	September 30, 2026	Storage:	10°C or colder
		Ship:	Ambient

51164g
↓
511658
Y.P.
11/13/23

CERTIFIED VALUES

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

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

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 Balance: B251644995

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

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

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

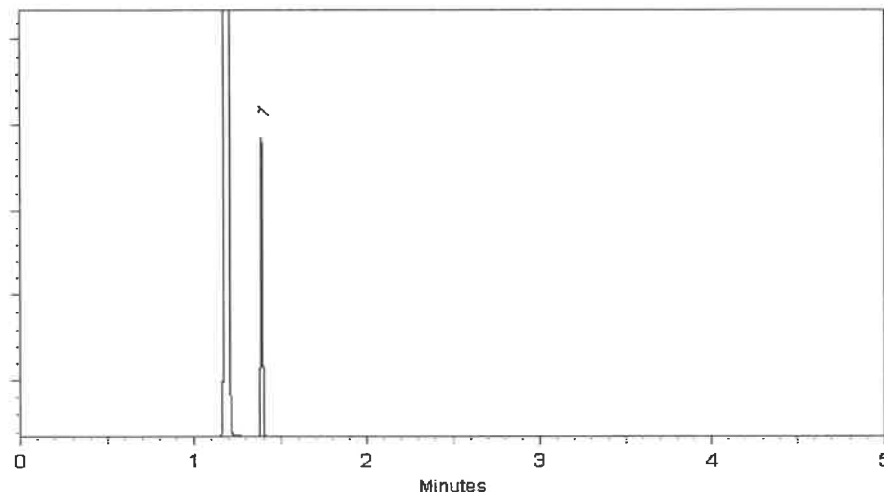
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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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:

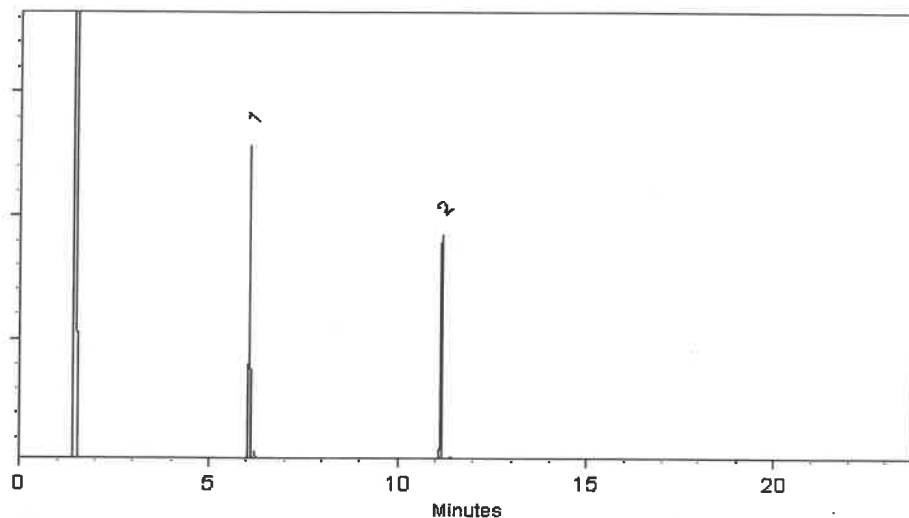
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

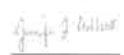


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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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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:

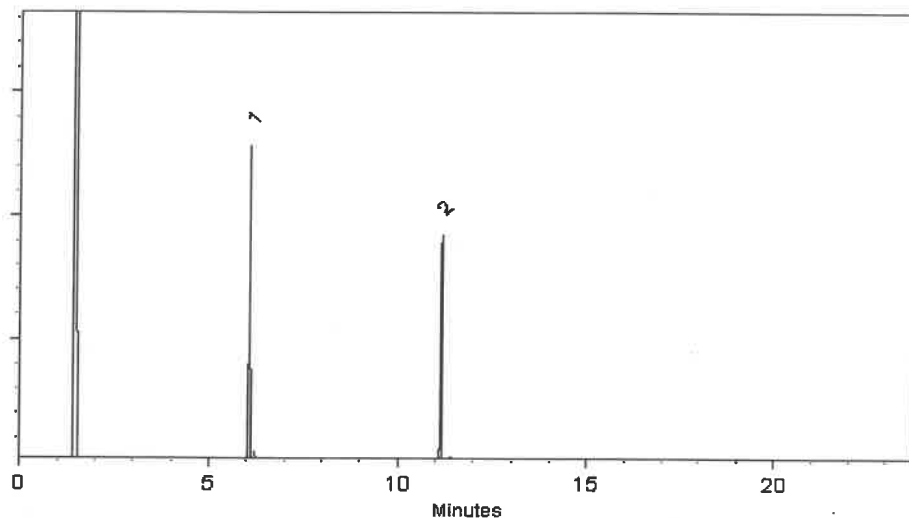
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

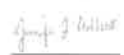


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

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



110 Benner Circle
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

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%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

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

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

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

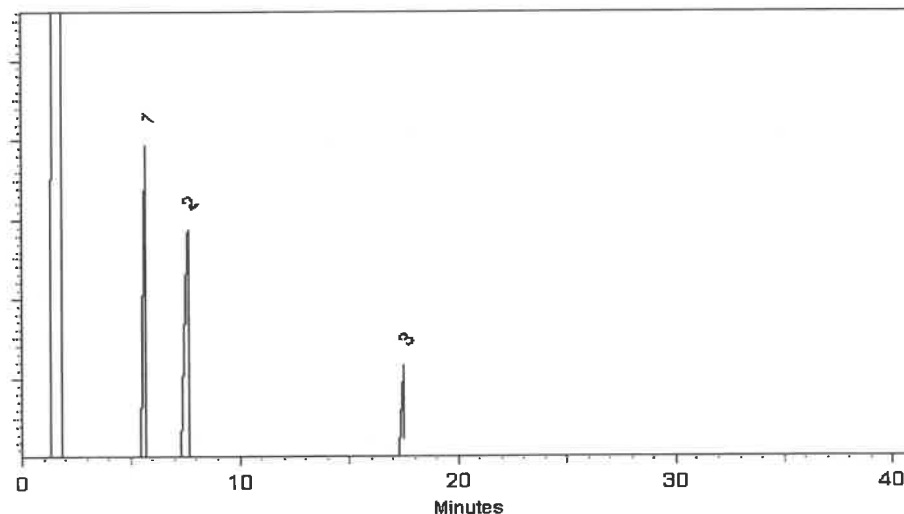
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Date Passed: 08-Jan-2024

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



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Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
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512187 } RC/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

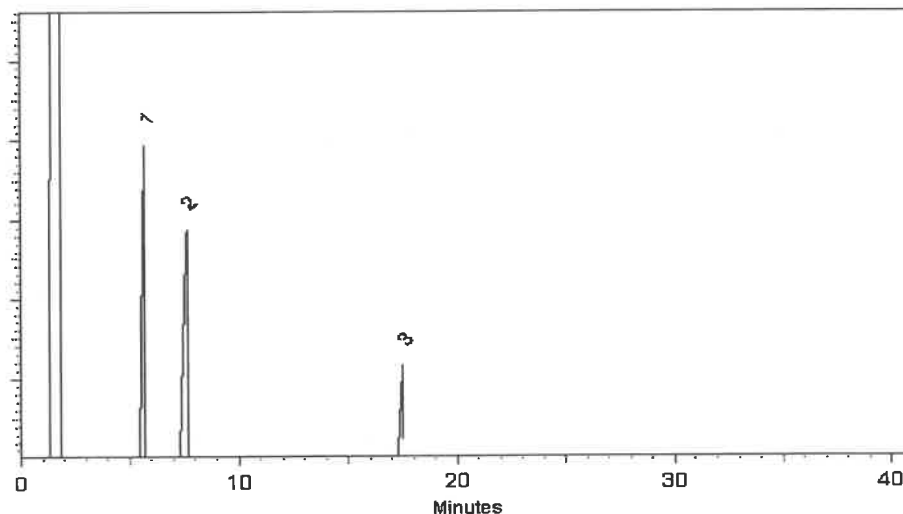
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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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
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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:

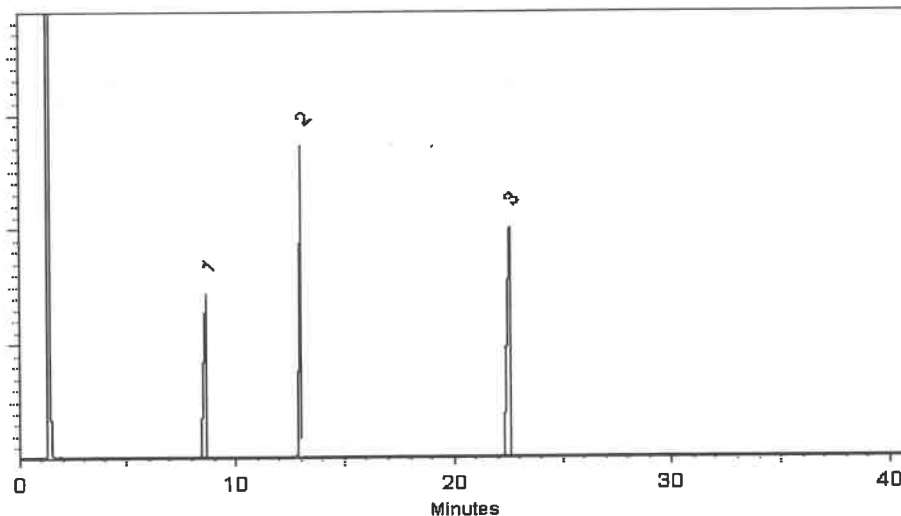
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Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Jess Hoy - Operations Tech I

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Date Passed: 11-Jan-2024

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



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

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

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

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

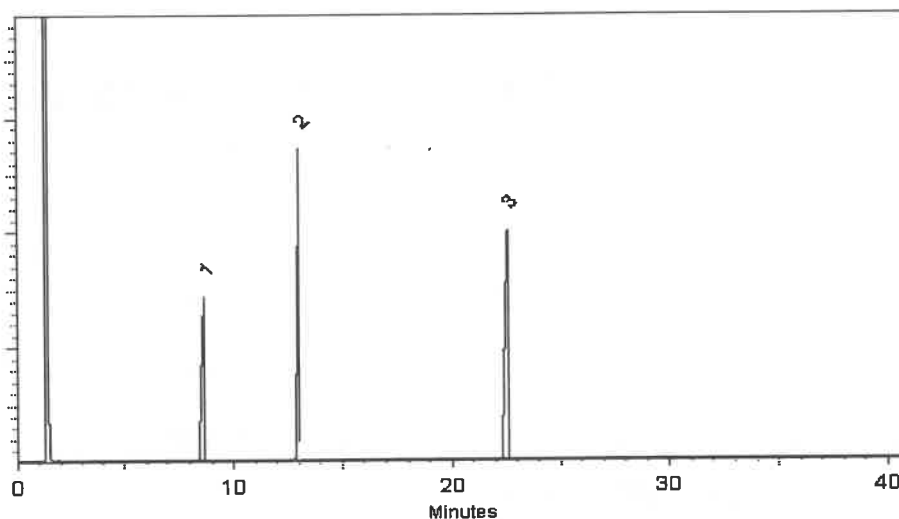
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

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

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



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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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. : 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:

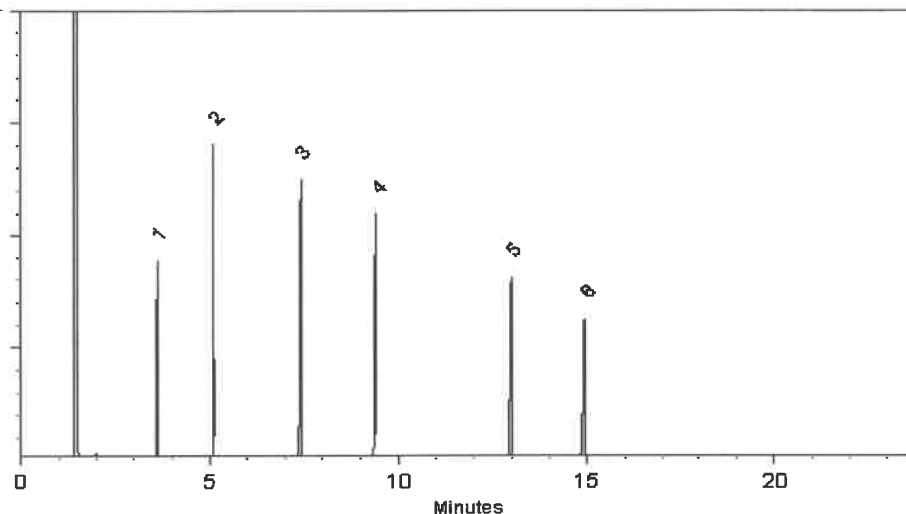
FID

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 Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-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. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

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

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

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

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

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

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

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

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Catalog No. : 31615 **Lot No.:** A0212955
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2027 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

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

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

S12577 } RC
↓
S12579 } 8/2/24

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

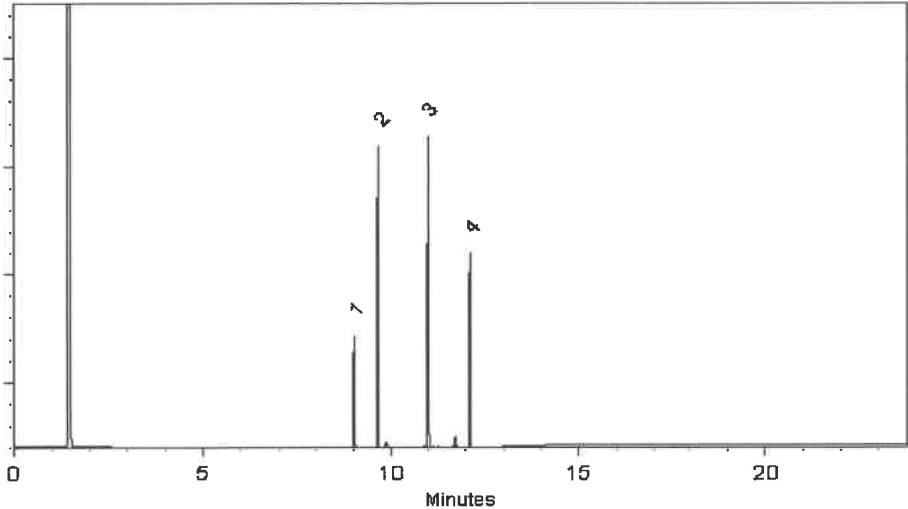
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

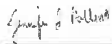
Inj. Vol
1µl



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


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

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

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

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

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

S12645
↓
S12674 } AC
10/1/24



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.



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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CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: Q1620																					
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION																					
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage		BILL TO: PO#																					
ADDRESS: 4433 Corporation Ln, Suite 300		PROJECT #: 112G08005-WE13 LOCATION: RW7B		ADDRESS:																					
CITY: Virginia Beach STATE: VA ZIP: 23462		PROJECT MANAGER: Ernie Wu		CITY: STATE: ZIP:																					
ATTENTION: Ernie Wu		E-MAIL: ernie.wu@tetratech.com		ATTENTION: PHONE:																					
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4901 FAX: 757-461-4148																							
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																					
FAX: _____ 10 _____ DAYS* HARD COPY: _____ 10 _____ DAYS* EDD _____ 10 _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____		1,4-Dioxane SW846 8270 <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 10%;">SIM</td> <td style="width: 10%;">Iron</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td></td> </tr> </table>		SIM	Iron									1	2	3	4	5	6	7	8	9	
SIM	Iron																								
1	2	3	4	5	6	7	8	9																	
				PRESERVATIVES																					
				COMMENTS																					
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE	SAMPLE COLLECTION	# of Bottles																				
			COMP GRAB	DATE TIME																					
1.	RW7-SP100-20250320	GW		X 3/20/25 12:15	2																				
2.	RW7-SP201-20250320	GW		X 3/20/25 12:17	1																				
3.	RW7-SP302-20250320	GW		X 3/20/25 12:27	1																				
4.	RW7-SP303-20250320	GW		X 3/20/25 12:29	2																				
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SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY					
RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp <u>2-3°C</u> MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: <u>Y</u>		
1.	3/20/25/1100	1.	Comments:		
RELINQUISHED BY	DATE/TIME	RECEIVED BY			
2.	3-21-25 <u>0944</u>	2.			
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY			
3.		3.			

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight	Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

From: Varricchio, Vin <Vin.Varricchio@tetrattech.com>
Sent: Friday, March 21, 2025 10:53 AM
To: Yazmeen Gomez
Cc: Wu, Ernie
Subject: Re: NWIRP Bethpage RW5 & RW7 GW Samples
Attachments: COC.pdf

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Yazmeen,
So sorry, that was a remnant from a previous sampling event. Please use the attached revised COC.

Thanks,

Vincent J. Varricchio, P.G. | Geologist V | NWIRP Bethpage Facilities Manager | Tetra Tech
Direct (631) 962-0812 | Mobile (516) 680-1201 | vin.varricchio@tetrattech.com
Time Zone: Eastern Time

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From: Yazmeen Gomez <Yazmeen.Gomez@AllianceTG.com>
Sent: Friday, March 21, 2025 10:48 AM
To: Varricchio, Vin <Vin.Varricchio@tetrattech.com>
Cc: Wu, Ernie <Ernie.Wu@tetrattech.com>
Subject: RE: NWIRP Bethpage RW5 & RW7 GW Samples

⚠ **CAUTION:** This email originated from an external sender. Verify the source before opening links or attachments. ⚠

Vin,

We received the attached – however, there were no metals (Iron) bottles received only the Ambers for 1,4-Dioxane. Did you need us to make the metals bottle here?

Also, do you need more bottles for metals?

Best Regards,



Yazmeen Gomez
Sr. Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3147

Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092

www.alliancetg.com   

From: Varricchio, Vin <Vin.Varricchio@tetrattech.com>
Sent: Thursday, March 20, 2025 4:16 PM
To: Yazmeen Gomez <Yazmeen.Gomez@AllianceTG.com>
Cc: Wu, Ernie <Ernie.Wu@tetrattech.com>
Subject: NWIRP Bethpage RW5 & RW7 GW Samples

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Yazmeen,
I am sending you some GW samples for delivery tomorrow morning. FedEx: 772867203895

Thanks,

Vincent J. Varricchio, P.G. | Geologist V | NWIRP Bethpage Facilities Manager
Direct (631) 962-0812 | Mobile (516) 680-1201 | vin.varricchio@tetrattech.com
Time Zone: Eastern Time

Tetra Tech | *Leading with Science®* | Environmental Services
500 Bi-County Boulevard, Suite 104 | Farmingdale, NY 11735 | tetrattech.com
EGS



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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\BN031025\
 Data File : BN036557.D
 Acq On : 10 Mar 2025 11:42
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Mar 10 16:00:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

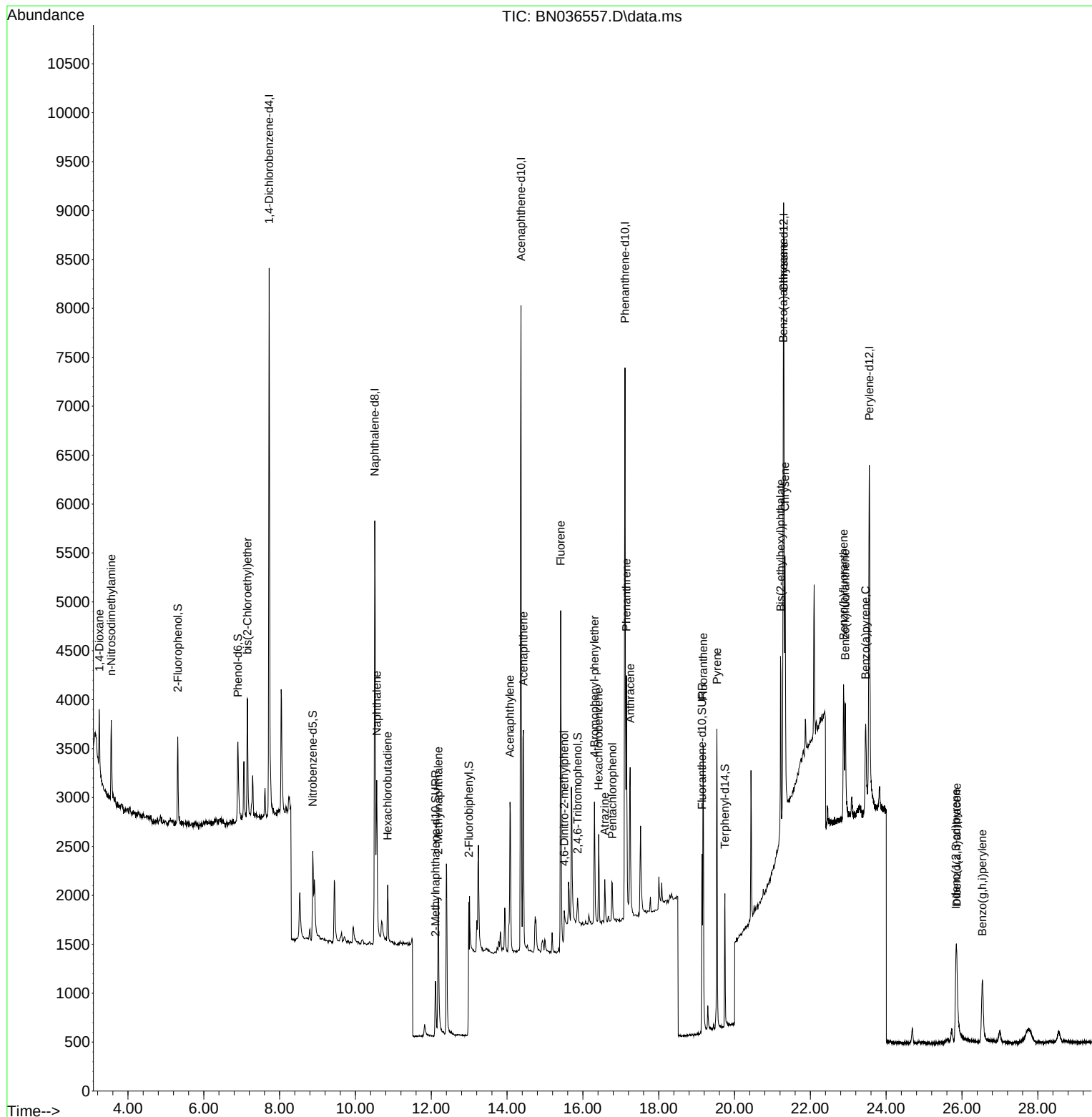
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2755	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	6575	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3958	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	8269	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5886	0.400	ng	0.00
35) Perylene-d12	23.554	264	5207	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	641	0.100	ng	0.00
5) Phenol-d6	6.901	99	856	0.108	ng	0.00
8) Nitrobenzene-d5	8.875	82	940	0.131	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	1079	0.110	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	179	0.100	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	2185	0.095	ng	0.00
27) Fluoranthene-d10	19.141	212	2144	0.101	ng	0.00
31) Terphenyl-d14	19.745	244	1416	0.100	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	534	0.175	ng	# 78
3) n-Nitrosodimethylamine	3.557	42	766	0.124	ng	# 95
6) bis(2-Chloroethyl)ether	7.154	93	982	0.120	ng	# 98
9) Naphthalene	10.562	128	2254	0.117	ng	# 94
10) Hexachlorobutadiene	10.850	225	486	0.107	ng	# 100
12) 2-Methylnaphthalene	12.187	142	1331	0.108	ng	96
16) Acenaphthylene	14.078	152	1862	0.100	ng	99
17) Acenaphthene	14.430	154	1244	0.102	ng	99
18) Fluorene	15.414	166	1612	0.097	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	122	0.204	ng	# 24
21) 4-Bromophenyl-phenylether	16.304	248	502	0.097	ng	95
22) Hexachlorobenzene	16.416	284	632	0.101	ng	98
23) Atrazine	16.578	200	400	0.096	ng	# 90
24) Pentachlorophenol	16.776	266	290	0.102	ng	98
25) Phenanthrene	17.148	178	2459	0.099	ng	99
26) Anthracene	17.248	178	2121	0.095	ng	100
28) Fluoranthene	19.174	202	2772	0.099	ng	97
30) Pyrene	19.536	202	2862	0.099	ng	100
32) Benzo(a)anthracene	21.286	228	2044	0.100	ng	94
33) Chrysene	21.331	228	2187	0.098	ng	93
34) Bis(2-ethylhexyl)phtha...	21.214	149	1760	0.121	ng	96
36) Indeno(1,2,3-cd)pyrene	25.841	276	1510	0.080	ng	98
37) Benzo(b)fluoranthene	22.876	252	1707	0.090	ng	# 62
38) Benzo(k)fluoranthene	22.923	252	1958	0.098	ng	# 62
39) Benzo(a)pyrene	23.458	252	1419	0.089	ng	# 51
40) Dibenzo(a,h)anthracene	25.861	278	1163	0.079	ng	# 59
41) Benzo(g,h,i)perylene	26.539	276	1482	0.089	ng	# 84

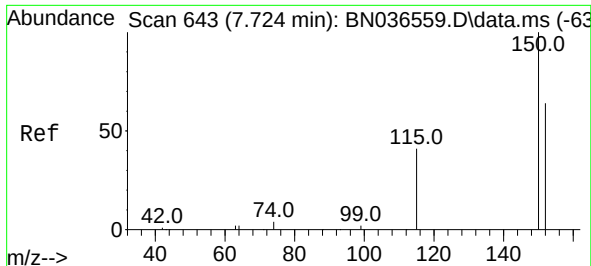
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036557.D
Acq On : 10 Mar 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

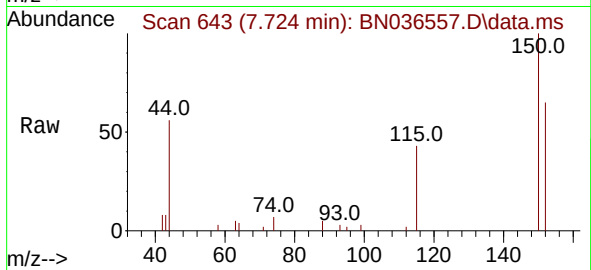
Quant Time: Mar 10 16:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



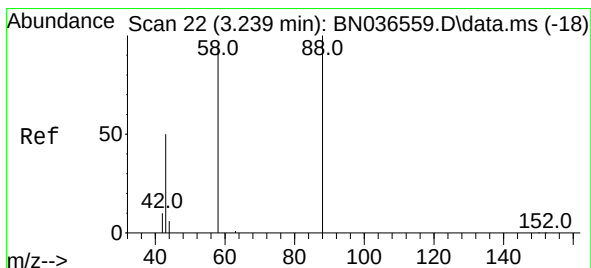
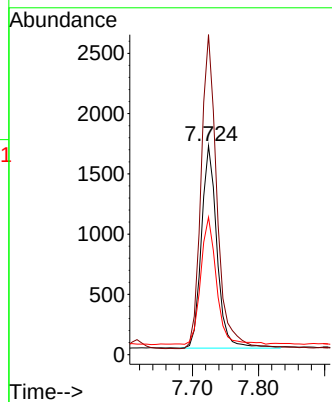
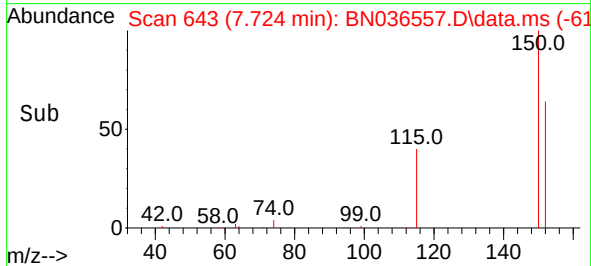


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.724 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

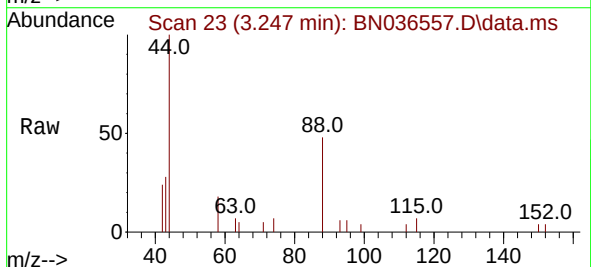
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1



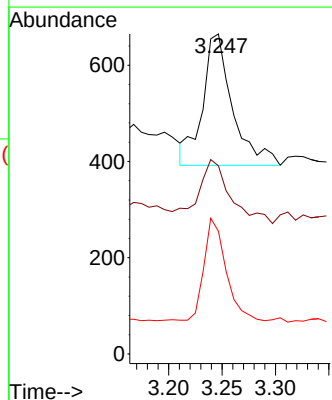
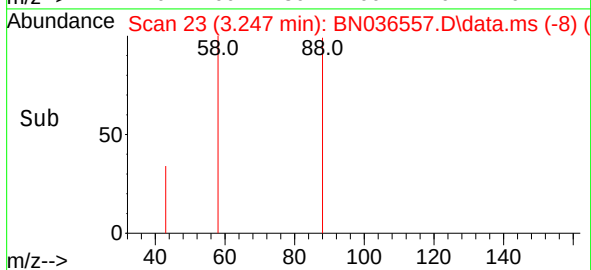
Tgt Ion:152 Resp: 2755
 Ion Ratio Lower Upper
 152 100
 150 153.3 123.7 185.5
 115 65.8 54.3 81.5

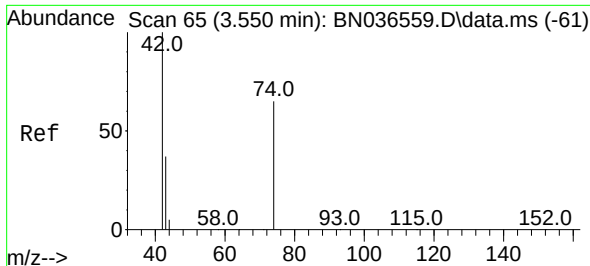


#2
 1,4-Dioxane
 Concen: 0.175 ng
 RT: 3.247 min Scan# 23
 Delta R.T. 0.007 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42



Tgt Ion: 88 Resp: 534
 Ion Ratio Lower Upper
 88 100
 43 53.0 37.8 56.8
 58 57.3 67.4 101.2#

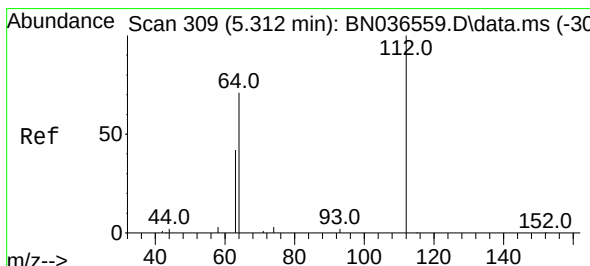
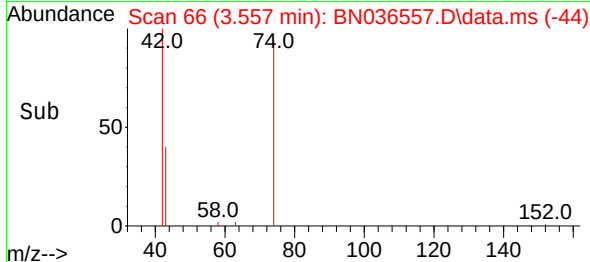
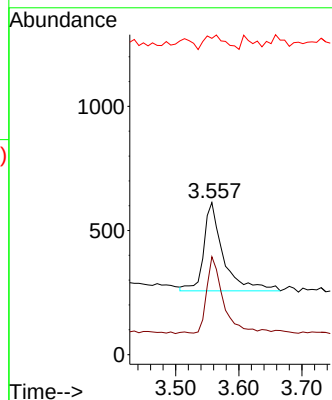
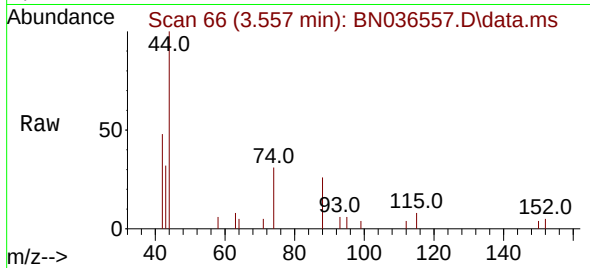




#3
 n-Nitrosodimethylamine
 Concen: 0.124 ng
 RT: 3.557 min Scan# 61
 Delta R.T. 0.007 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

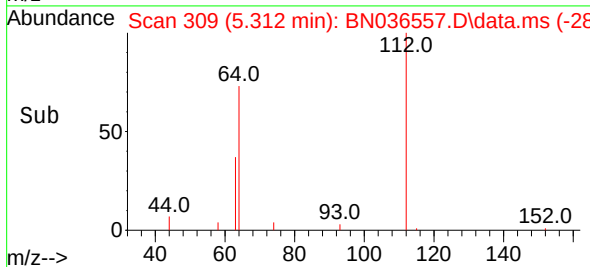
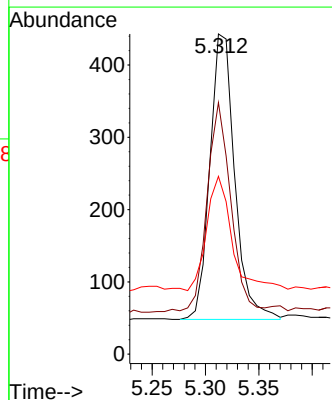
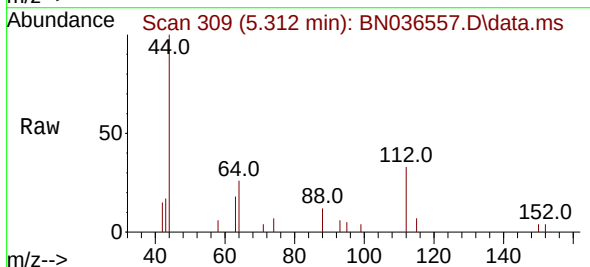
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 ClientSampleId :
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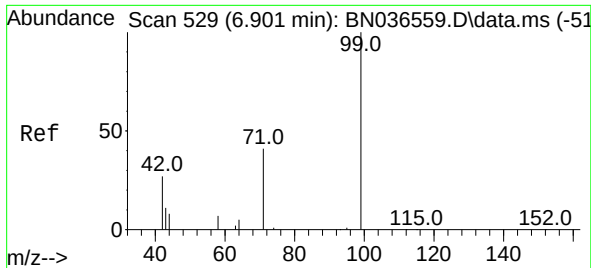
Tgt Ion: 42 Resp: 766
 Ion Ratio Lower Upper
 42 100
 74 73.0 60.6 90.8
 44 16.6 6.3 9.5#



#4
 2-Fluorophenol
 Concen: 0.100 ng
 RT: 5.312 min Scan# 309
 Delta R.T. 0.000 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

Tgt Ion: 112 Resp: 641
 Ion Ratio Lower Upper
 112 100
 64 70.4 53.1 79.7
 63 40.9 31.8 47.8

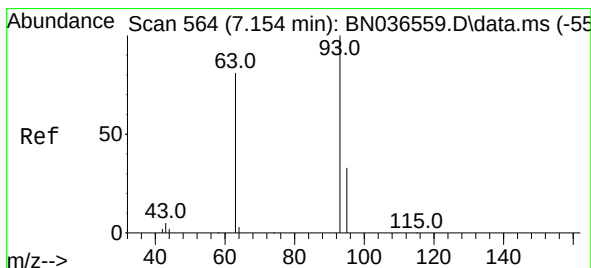
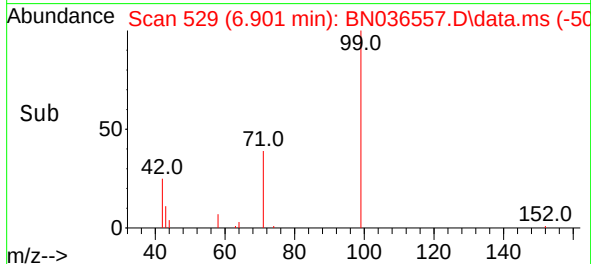
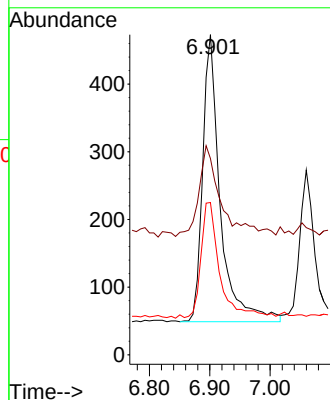
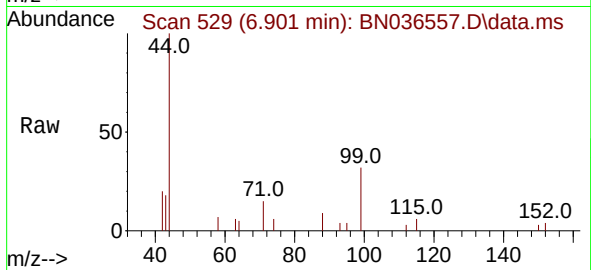




#5
Phenol-d6
Concen: 0.108 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

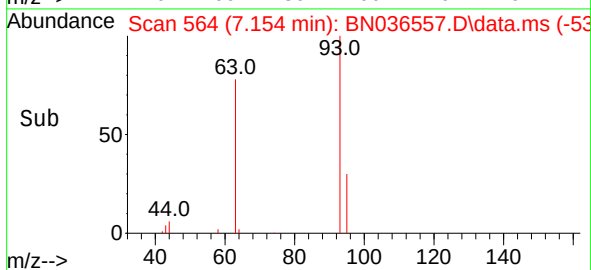
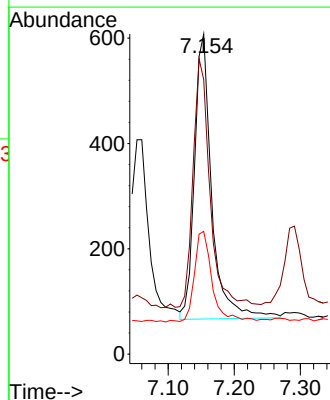
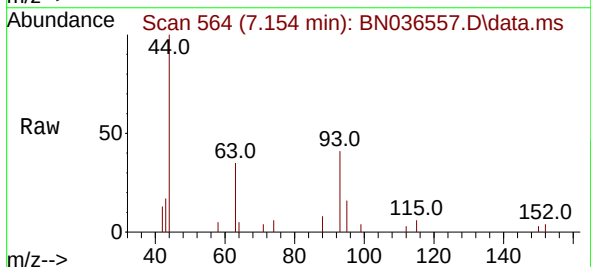
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ClientSampleId :
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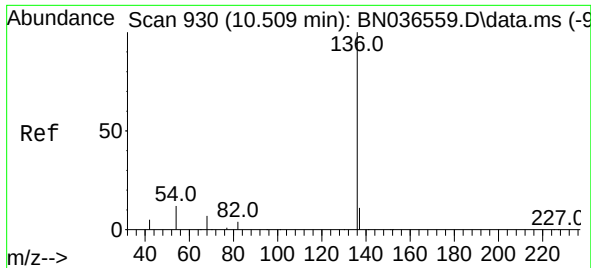
Tgt Ion: 99 Resp: 856
Ion Ratio Lower Upper
99 100
42 39.8 26.5 39.7#
71 42.8 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.120 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion: 93 Resp: 982
Ion Ratio Lower Upper
93 100
63 86.7 67.7 101.5
95 33.0 25.6 38.4

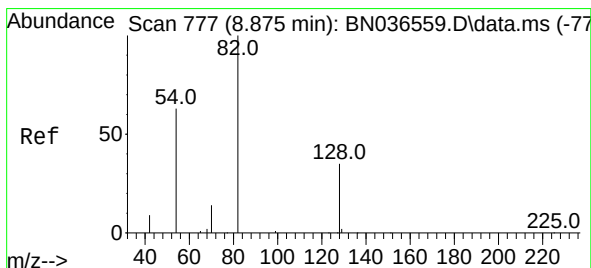
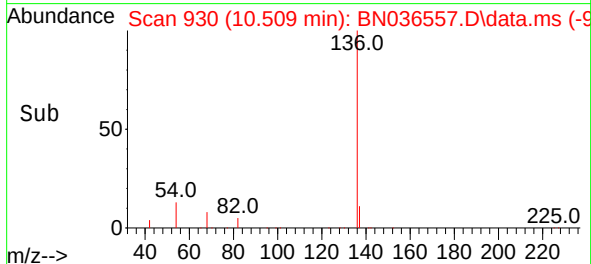
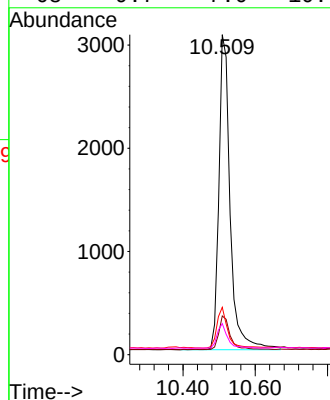
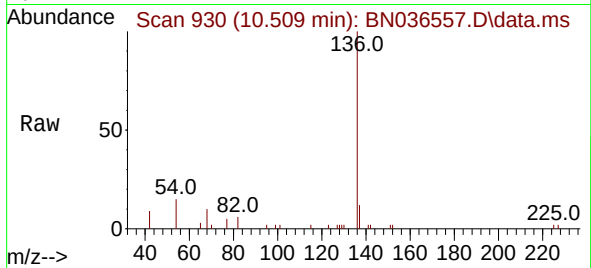




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

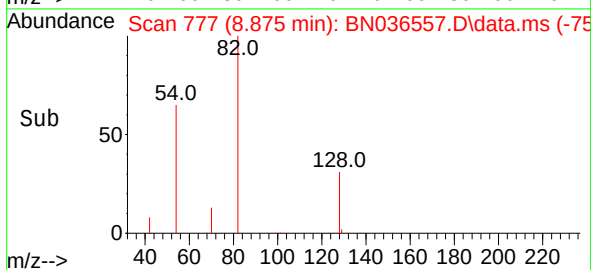
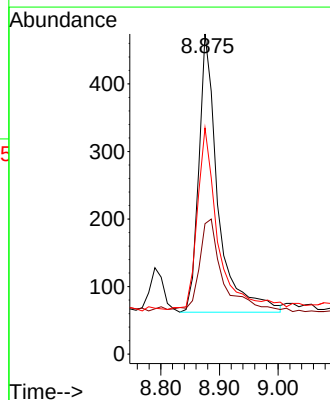
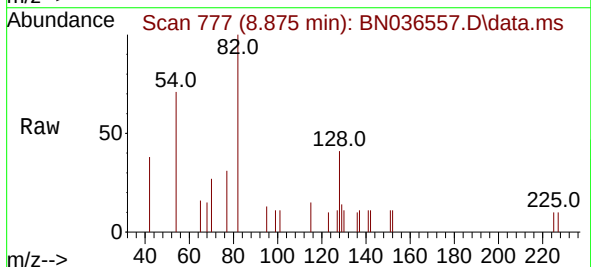
Instrument :
BNA_N
ClientSampleId :
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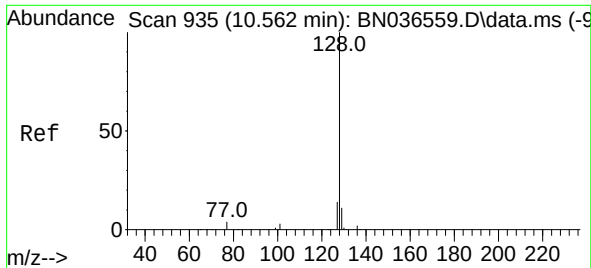
Tgt Ion:	136	Resp:	6575
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.3	15.5
54	14.8	11.5	17.3
68	9.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.131 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:	82	Resp:	940
Ion	Ratio	Lower	Upper
82	100		
128	40.7	30.6	45.8
54	70.7	52.2	78.4

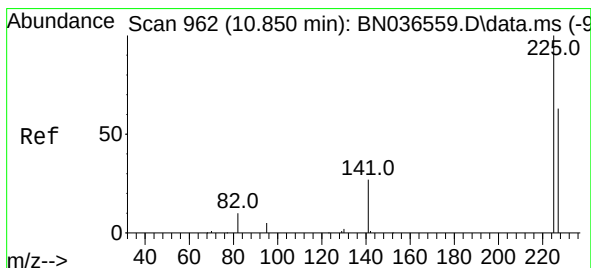
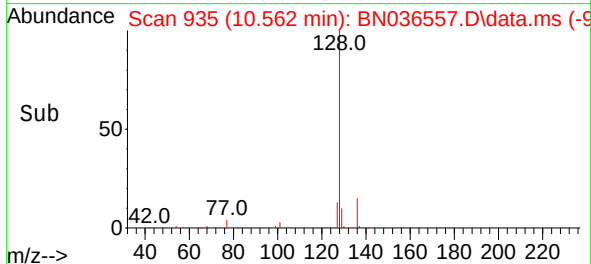
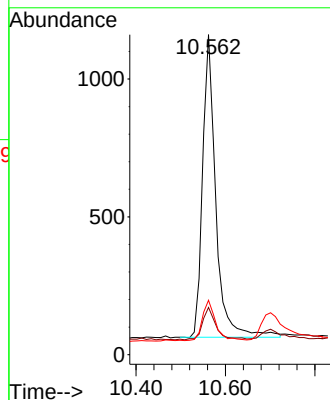
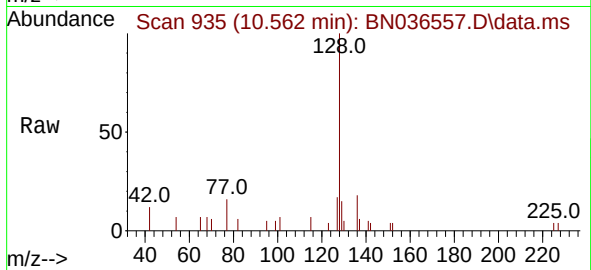




#9
Naphthalene
Concen: 0.117 ng
RT: 10.562 min Scan# 935
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

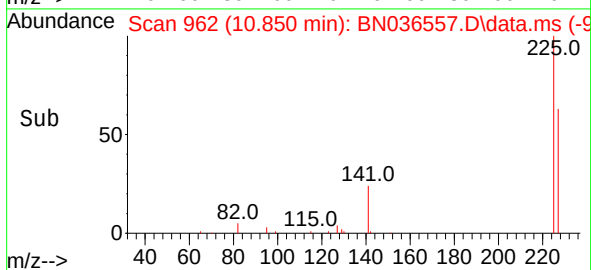
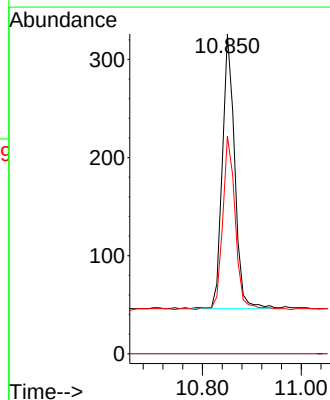
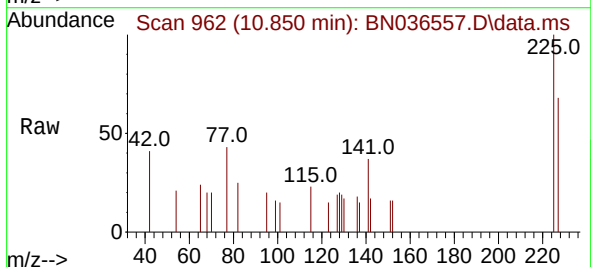
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

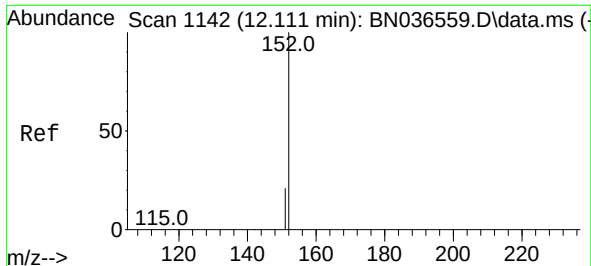
Tgt Ion:128 Resp: 2254
Ion Ratio Lower Upper
128 100
129 14.7 9.8 14.6#
127 17.0 11.8 17.8



#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:225 Resp: 486
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.8 51.8 77.8

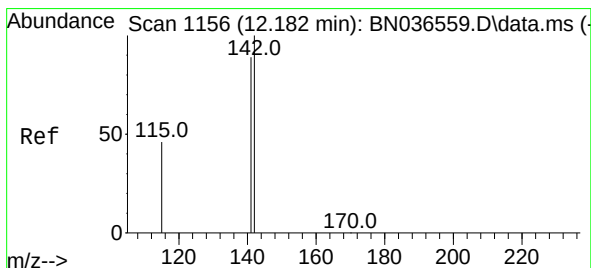
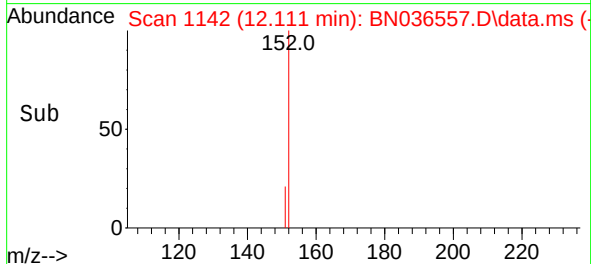
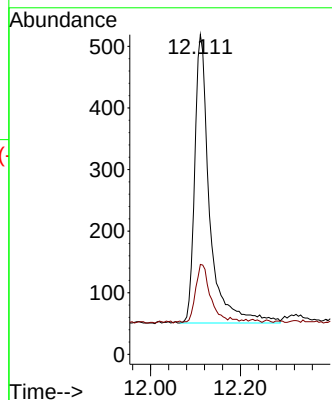
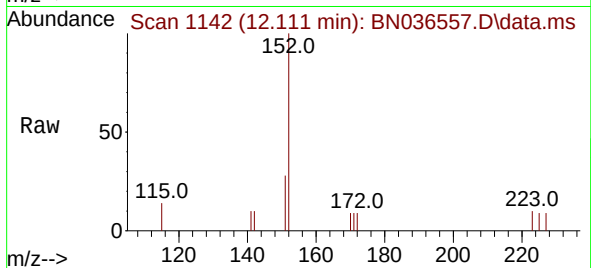




#11
2-Methylnaphthalene-d10
Concen: 0.110 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

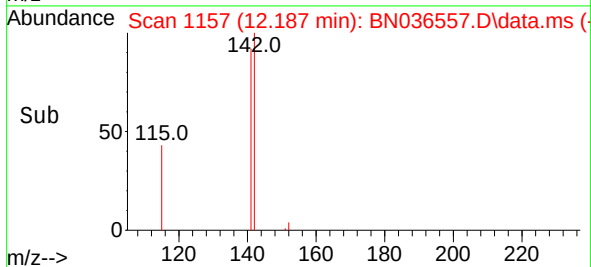
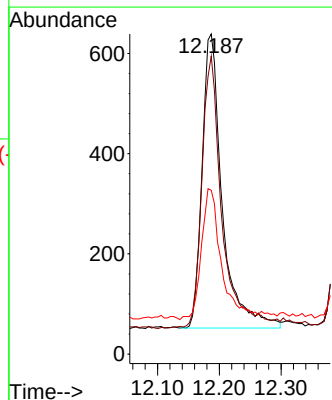
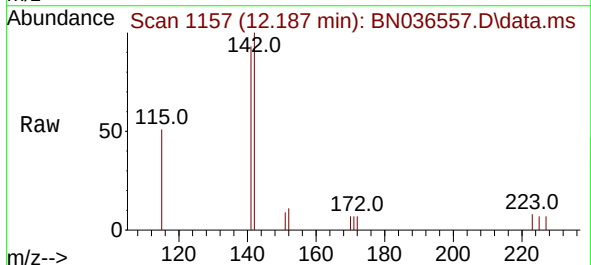
Instrument :
BNA_N
ClientSampleId :
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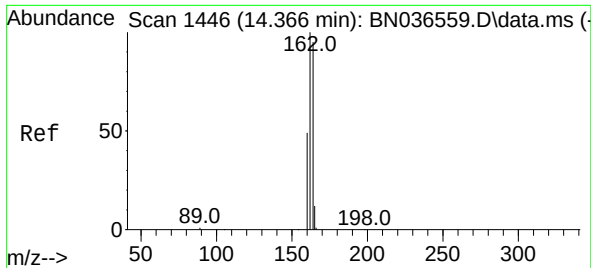
Tgt Ion:152 Resp: 1079
Ion Ratio Lower Upper
152 100
151 19.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:142 Resp: 1331
Ion Ratio Lower Upper
142 100
141 93.1 71.7 107.5
115 51.2 38.3 57.5

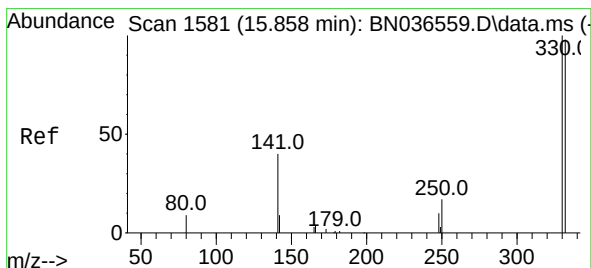
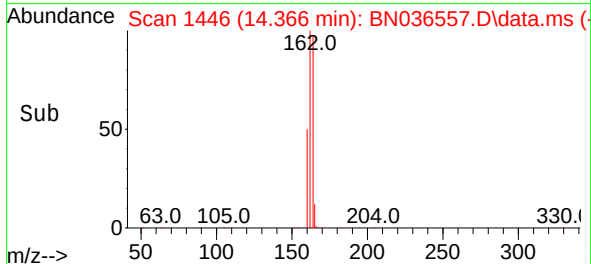
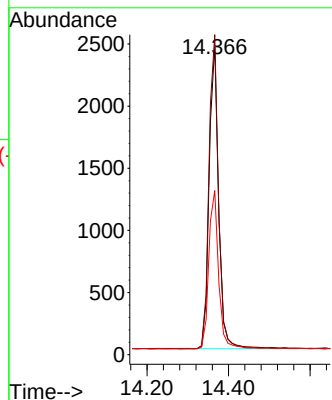
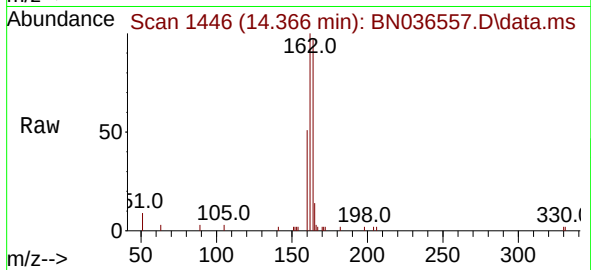




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

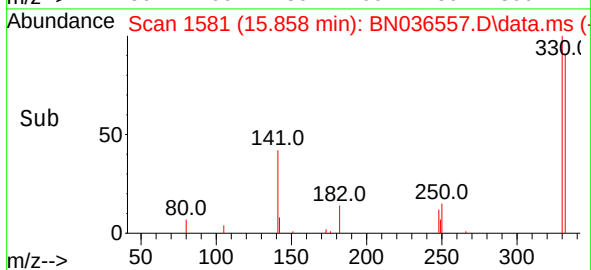
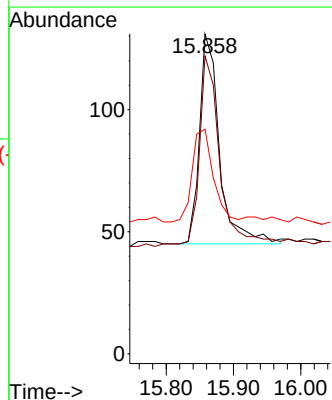
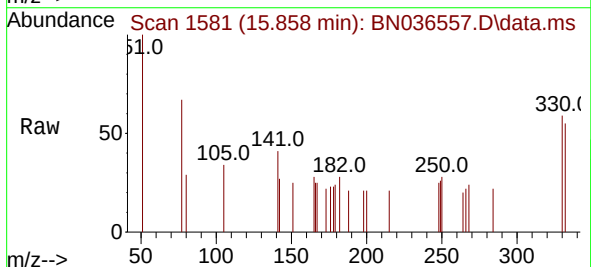
Instrument :
BNA_N
ClientSampleId :
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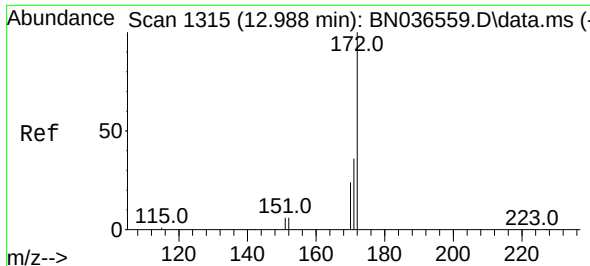
Tgt Ion:164 Resp: 3958
Ion Ratio Lower Upper
164 100
162 103.3 84.2 126.2
160 53.0 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.100 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:330 Resp: 179
Ion Ratio Lower Upper
330 100
332 96.1 75.2 112.8
141 46.4 43.4 65.2

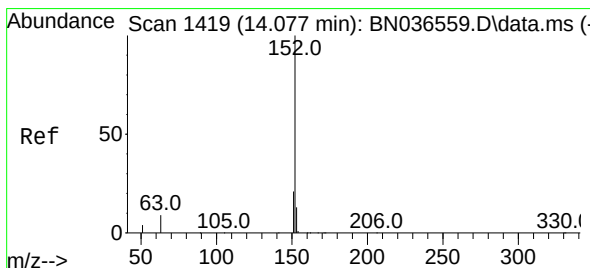
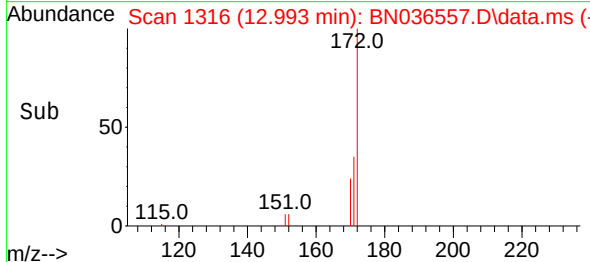
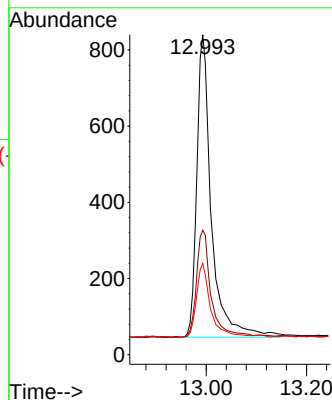
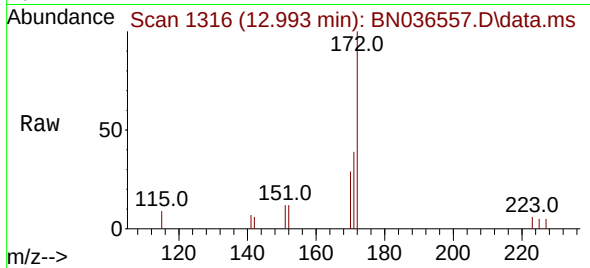




#15
2-Fluorobiphenyl
Concen: 0.095 ng
RT: 12.993 min Scan# 1316
Delta R.T. 0.005 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

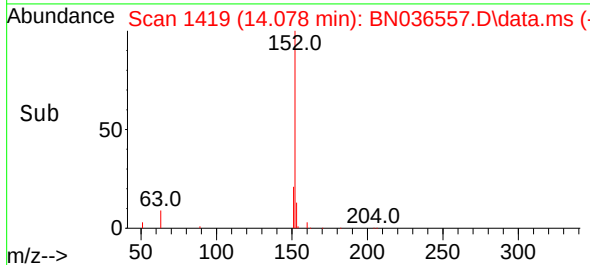
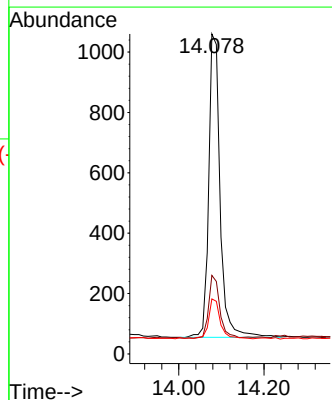
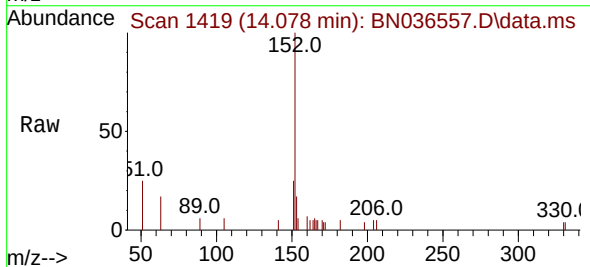
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

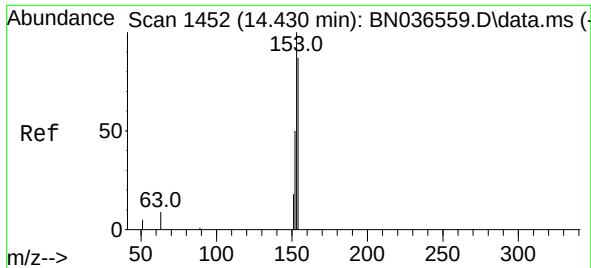
Tgt Ion:172	Resp:	2185
Ion Ratio	Lower	Upper
172	100	
171	38.9	29.5 44.3
170	28.6	20.2 30.4



#16
Acenaphthylene
Concen: 0.100 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:152	Resp:	1862
Ion Ratio	Lower	Upper
152	100	
151	20.2	16.2 24.4
153	14.1	10.6 15.8

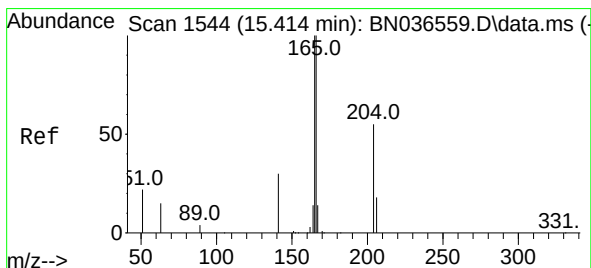
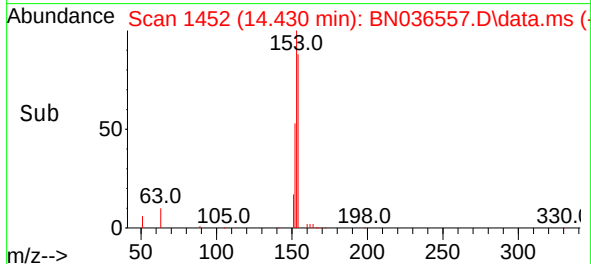
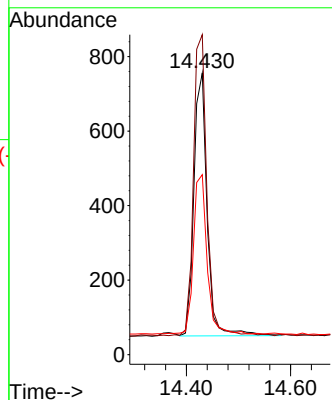
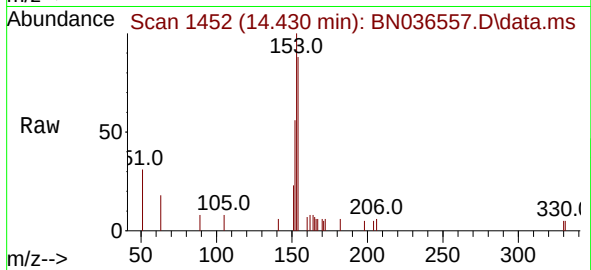




#17
Acenaphthene
Concen: 0.102 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

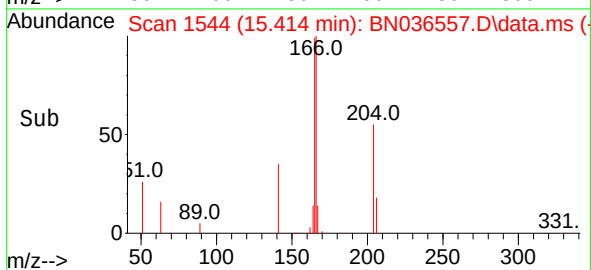
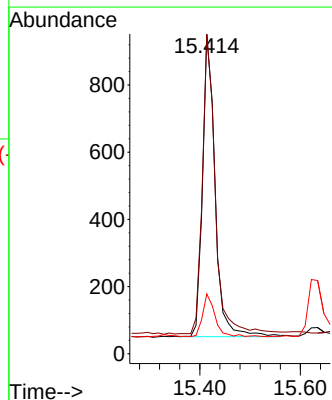
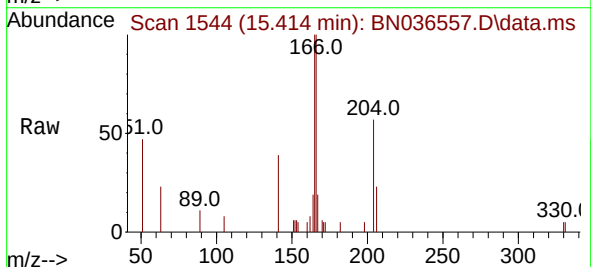
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

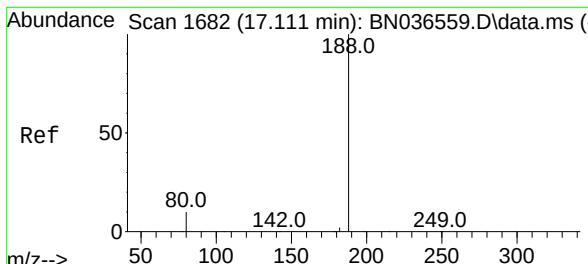
Tgt Ion:154 Resp: 1244
Ion Ratio Lower Upper
154 100
153 115.9 94.1 141.1
152 62.5 49.8 74.6



#18
Fluorene
Concen: 0.097 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:166 Resp: 1612
Ion Ratio Lower Upper
166 100
165 100.9 79.8 119.8
167 13.9 10.6 15.8

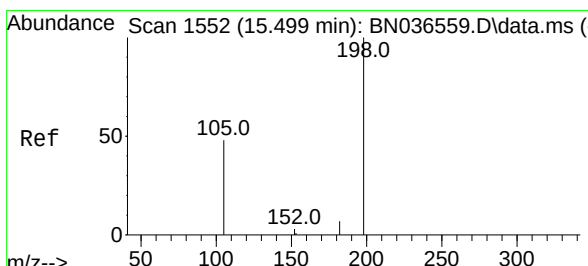
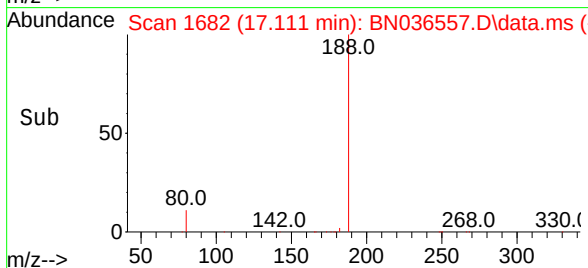
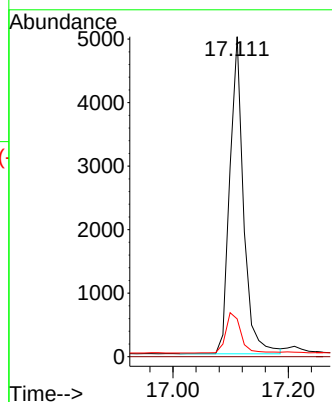
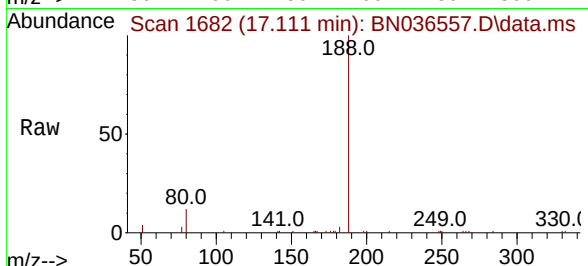




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.111 min Scan# 1682
 Delta R.T. 0.000 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

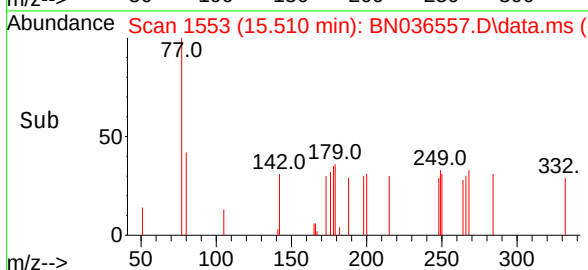
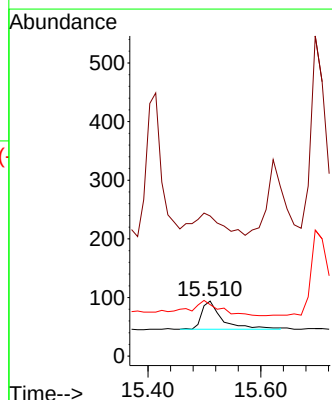
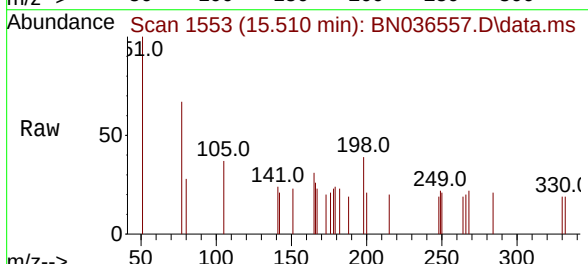
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

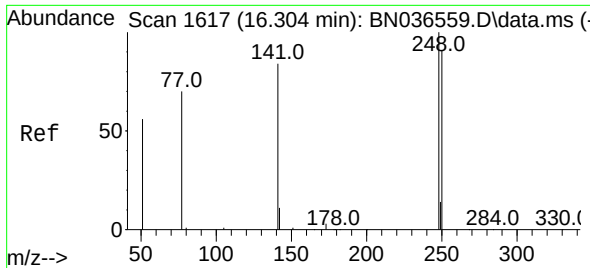
Tgt Ion:	188	Resp:	8269
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.8	8.8	13.2



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.204 ng
 RT: 15.510 min Scan# 1553
 Delta R.T. 0.011 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

Tgt Ion:	198	Resp:	122
Ion Ratio	Lower	Upper	
198	100		
51	254.3	107.9	161.9#
105	93.6	56.2	84.2#

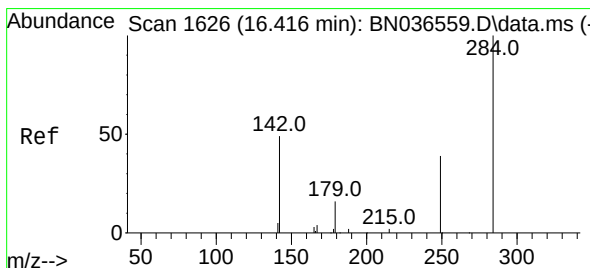
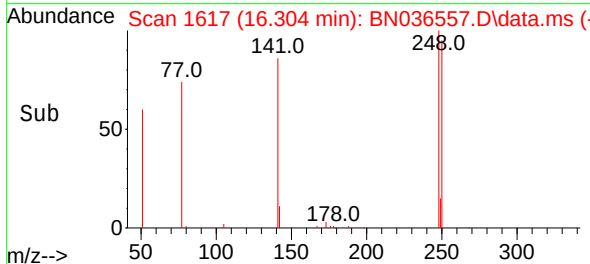
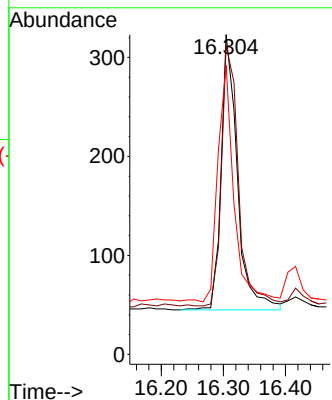
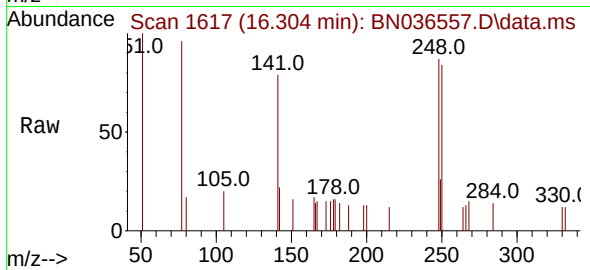




#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

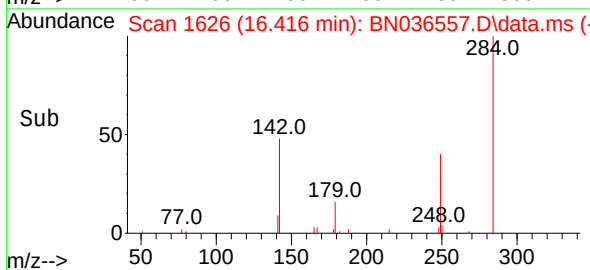
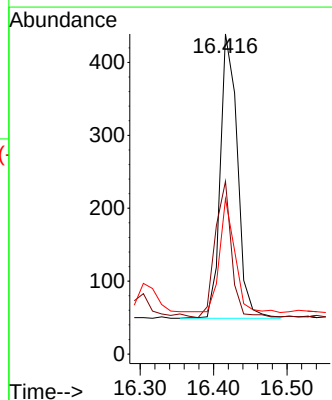
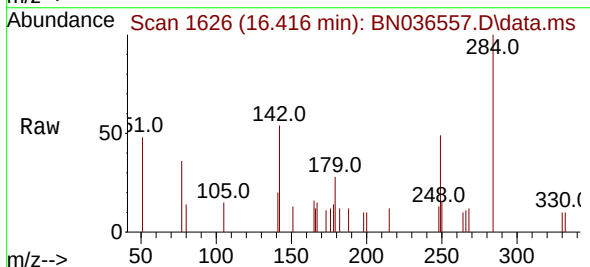
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

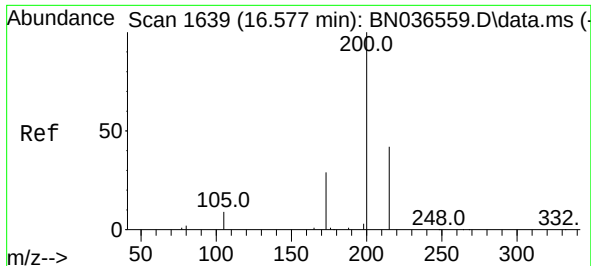
Tgt Ion:248	Resp:	502
Ion Ratio	Lower	Upper
248	100	
250	96.6	73.0 109.6
141	90.4	68.6 103.0



#22
Hexachlorobenzene
Concen: 0.101 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:284	Resp:	632
Ion Ratio	Lower	Upper
284	100	
142	45.7	37.0 55.4
249	37.2	28.1 42.1





#23

Atrazine

Concen: 0.096 ng

RT: 16.578 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

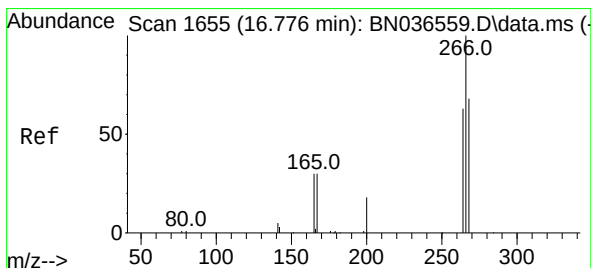
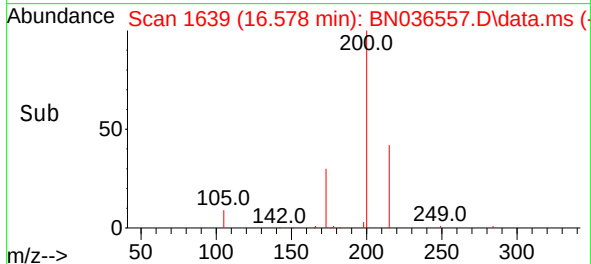
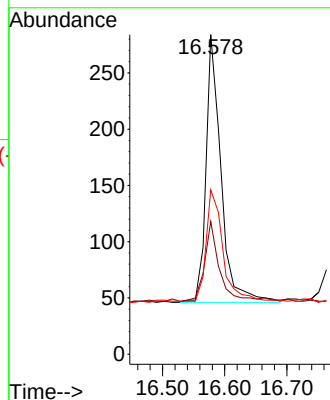
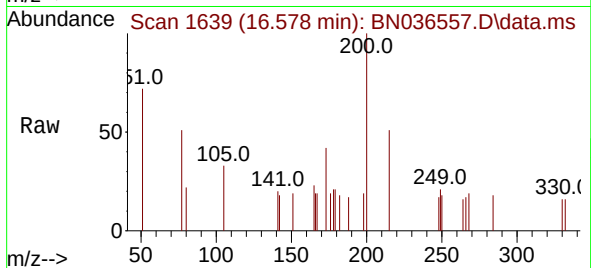
Tgt Ion:200 Resp: 400

Ion Ratio Lower Upper

200 100

173 41.5 27.3 40.9#

215 51.4 36.8 55.2



#24

Pentachlorophenol

Concen: 0.102 ng

RT: 16.776 min Scan# 1655

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

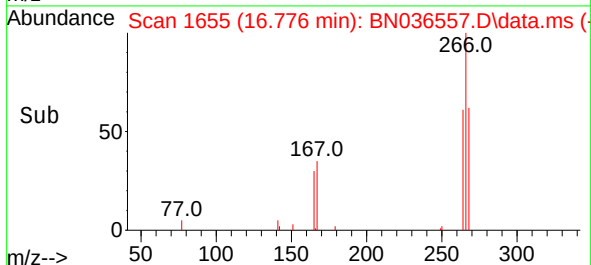
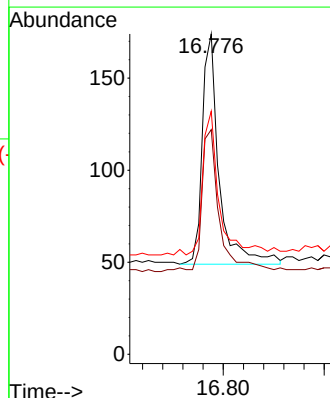
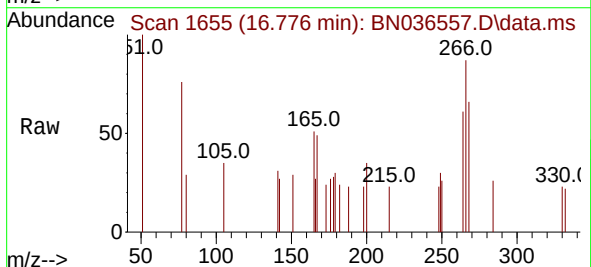
Tgt Ion:266 Resp: 290

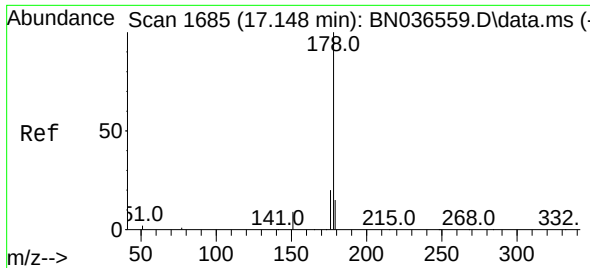
Ion Ratio Lower Upper

266 100

264 64.8 49.6 74.4

268 62.8 50.9 76.3

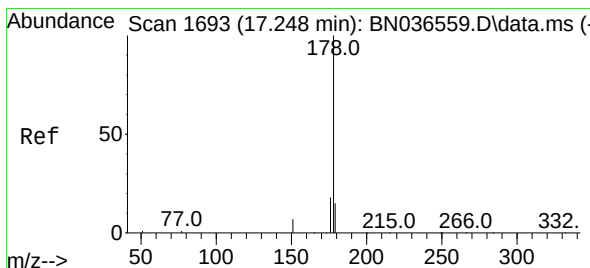
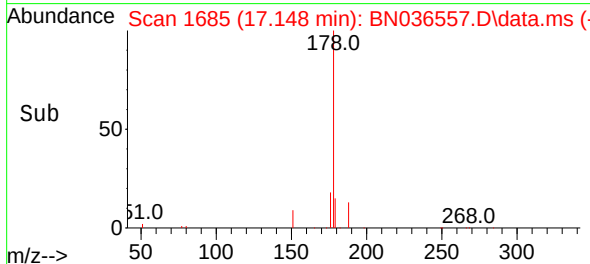
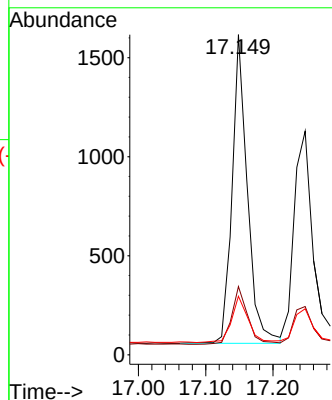
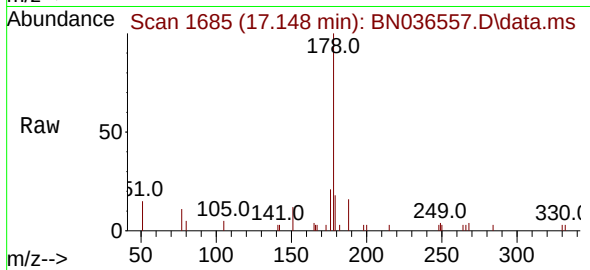




#25
Phenanthrene
Concen: 0.099 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

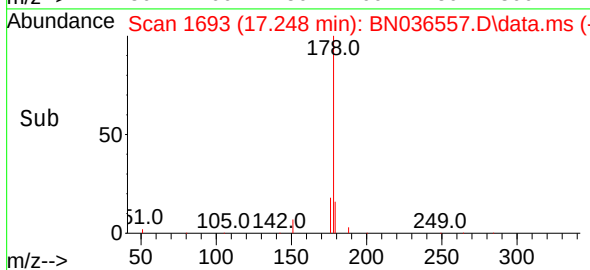
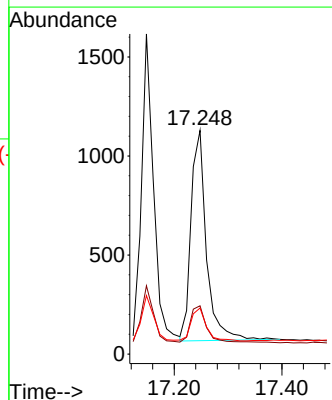
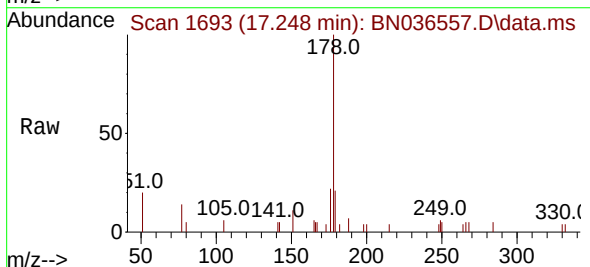
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

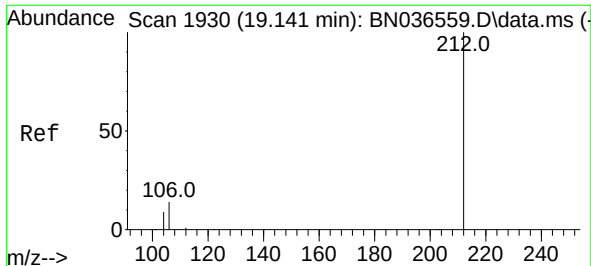
Tgt Ion:178 Resp: 2459
Ion Ratio Lower Upper
178 100
176 19.6 15.9 23.9
179 16.1 12.2 18.4



#26
Anthracene
Concen: 0.095 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:178 Resp: 2121
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.2
179 15.7 12.6 18.8

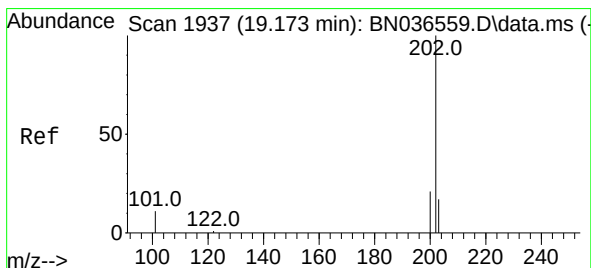
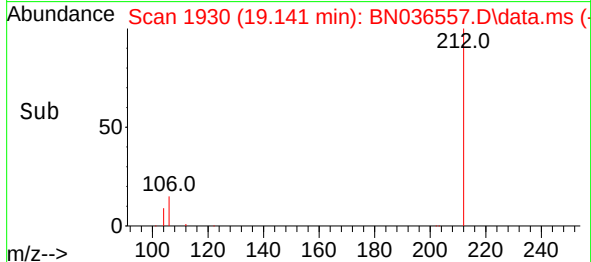
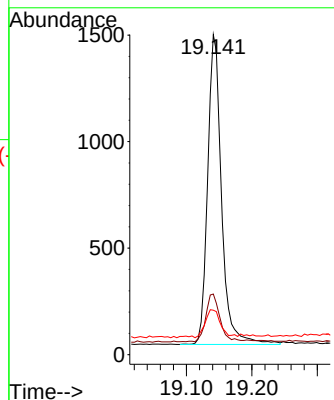
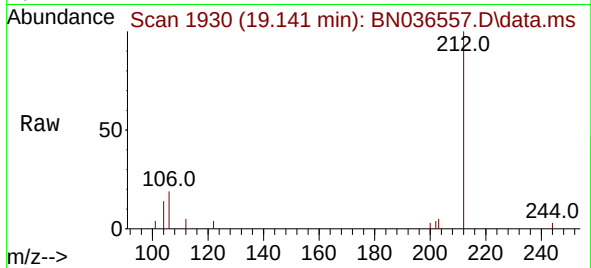




#27
Fluoranthene-d10
Concen: 0.101 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

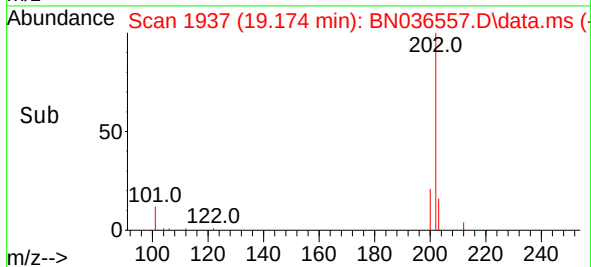
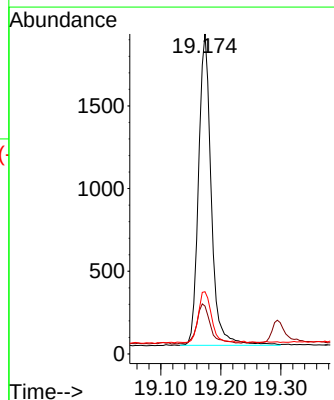
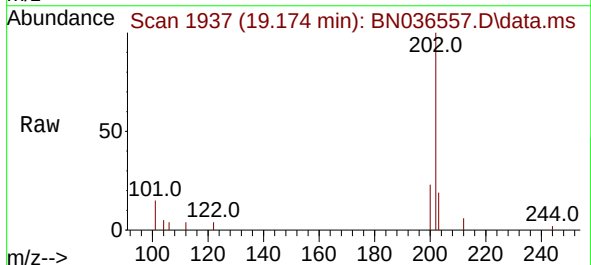
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

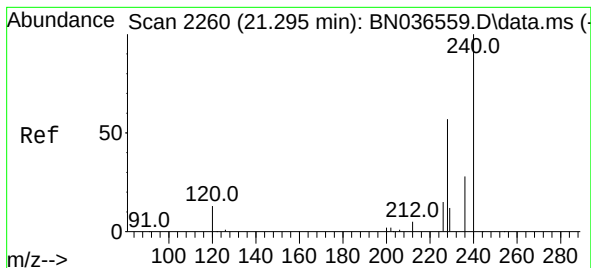
Tgt Ion:	212	Resp:	2144
Ion	Ratio	Lower	Upper
212	100		
106	15.5	11.8	17.6
104	9.7	7.3	10.9



#28
Fluoranthene
Concen: 0.099 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:	202	Resp:	2772
Ion	Ratio	Lower	Upper
202	100		
101	14.0	9.4	14.0
203	17.0	13.5	20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

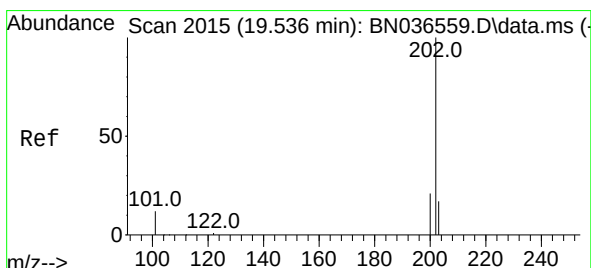
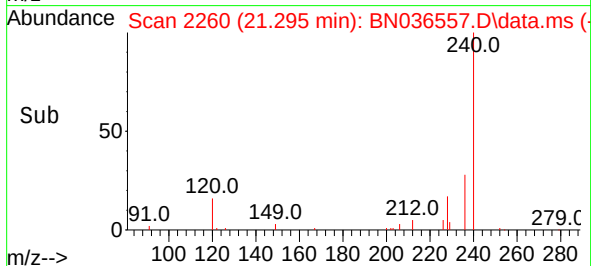
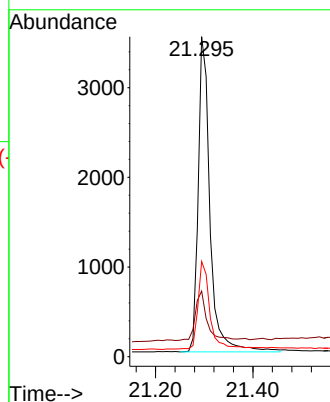
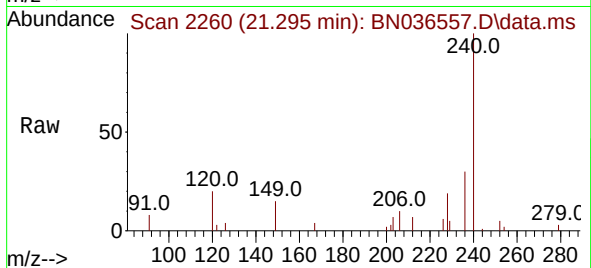
Tgt Ion:240 Resp: 5886

Ion Ratio Lower Upper

240 100

120 20.5 14.6 22.0

236 29.8 24.1 36.1



#30

Pyrene

Concen: 0.099 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

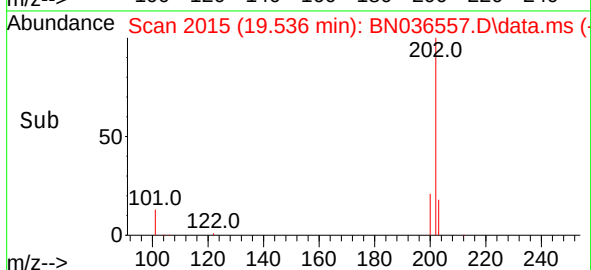
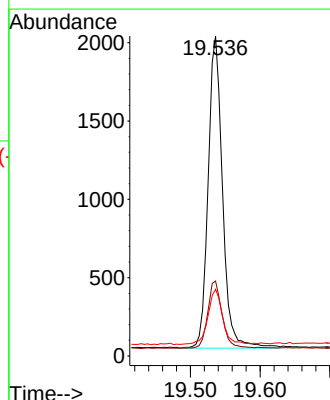
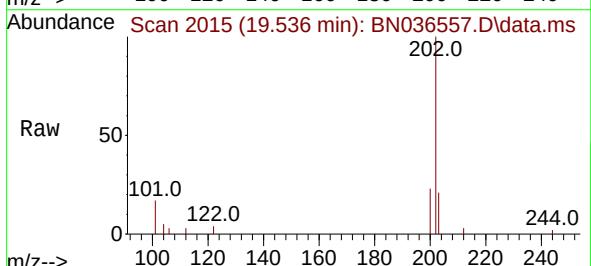
Tgt Ion:202 Resp: 2862

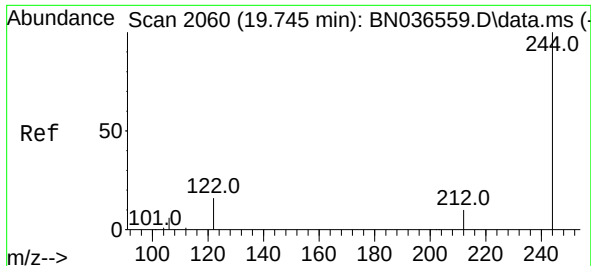
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

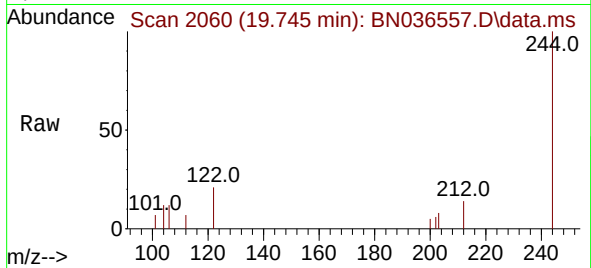
203 17.9 14.1 21.1



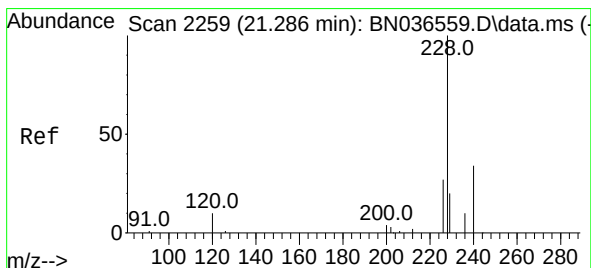
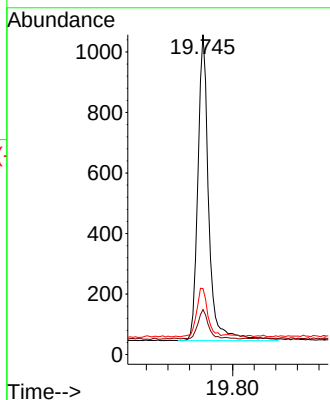
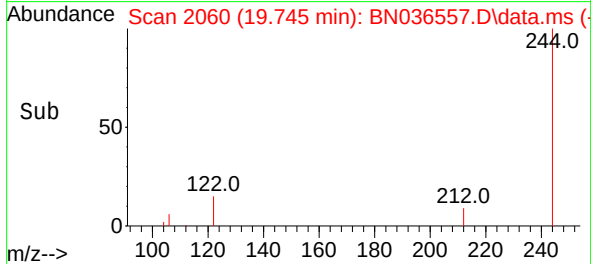


#31
 Terphenyl-d14
 Concen: 0.100 ng
 RT: 19.745 min Scan# 2060
 Delta R.T. 0.000 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

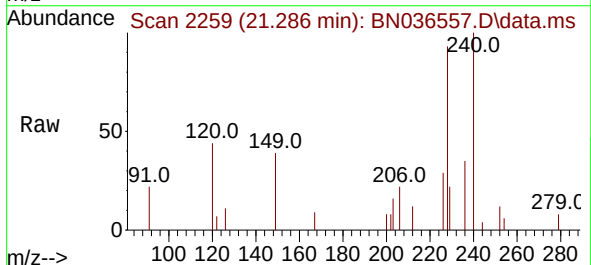
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1



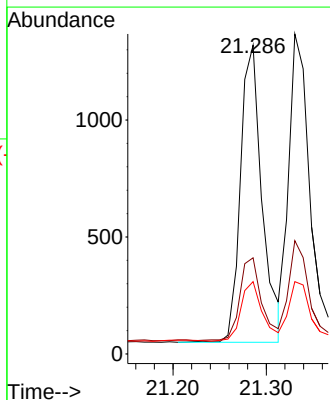
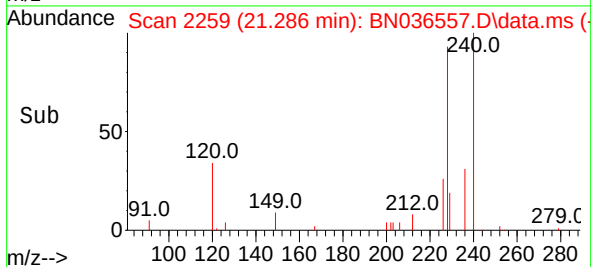
Tgt Ion:244 Resp: 1416
 Ion Ratio Lower Upper
 244 100
 212 14.1 9.6 14.4
 122 20.6 13.9 20.9

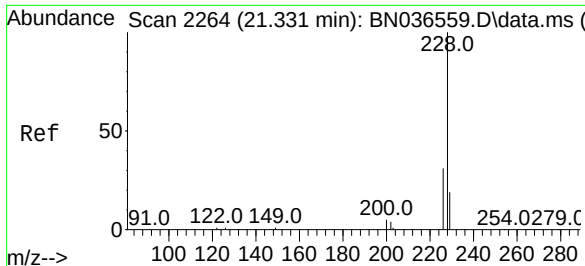


#32
 Benzo(a)anthracene
 Concen: 0.100 ng
 RT: 21.286 min Scan# 2259
 Delta R.T. 0.000 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42



Tgt Ion:228 Resp: 2044
 Ion Ratio Lower Upper
 228 100
 226 31.1 22.5 33.7
 229 23.4 16.6 25.0





#33

Chrysene

Concen: 0.098 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

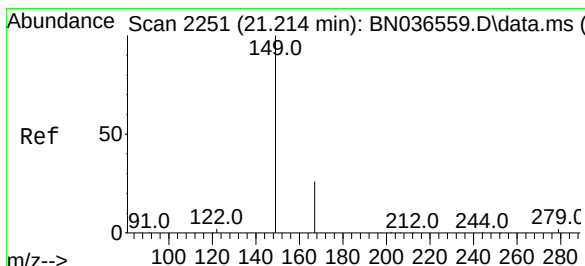
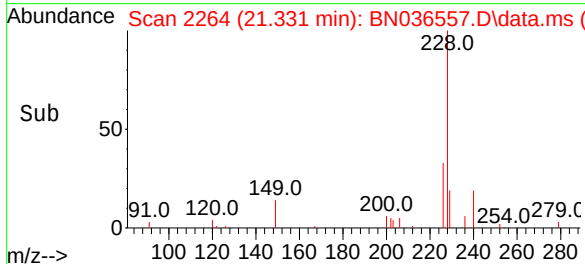
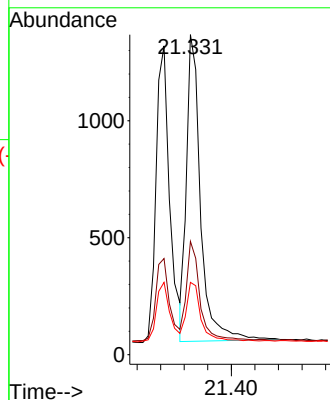
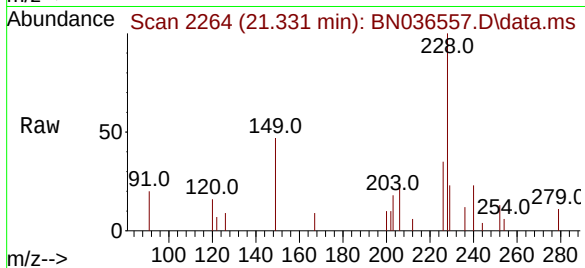
Tgt Ion:228 Resp: 2187

Ion Ratio Lower Upper

228 100

226 35.4 25.3 37.9

229 22.6 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.121 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

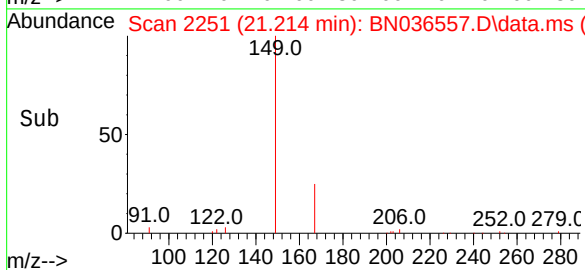
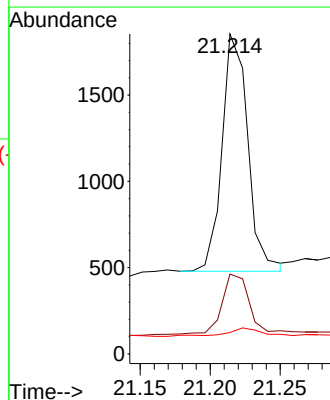
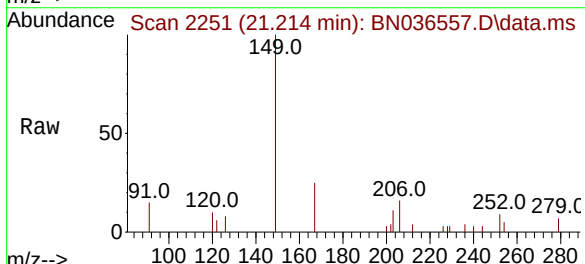
Tgt Ion:149 Resp: 1760

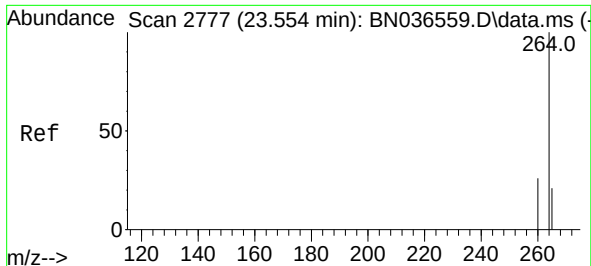
Ion Ratio Lower Upper

149 100

167 27.9 20.7 31.1

279 4.9 3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

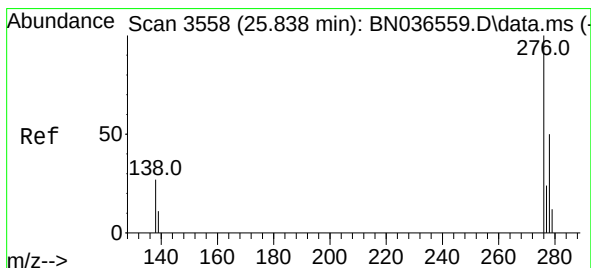
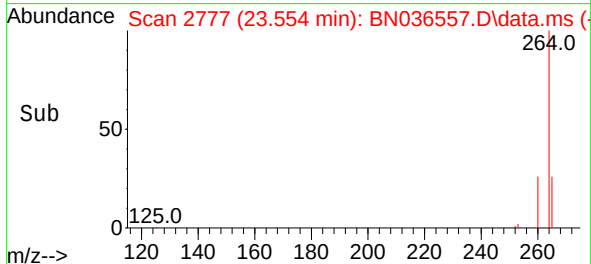
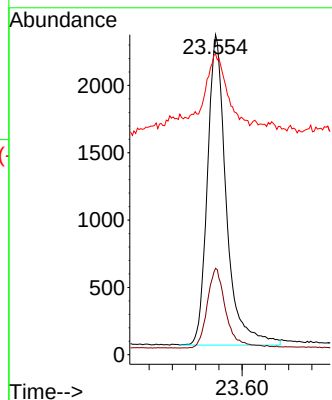
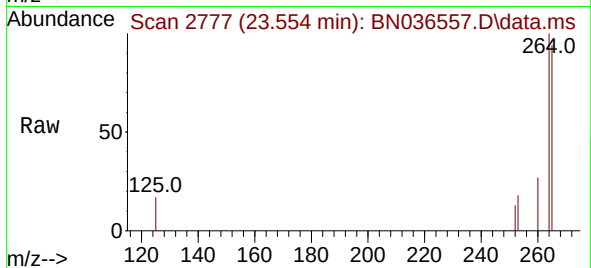
Tgt Ion:264 Resp: 5207

Ion Ratio Lower Upper

264 100

260 27.0 22.6 33.8

265 93.9 88.1 132.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.080 ng

RT: 25.841 min Scan# 3559

Delta R.T. 0.003 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

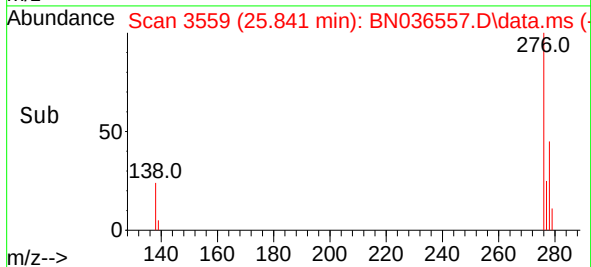
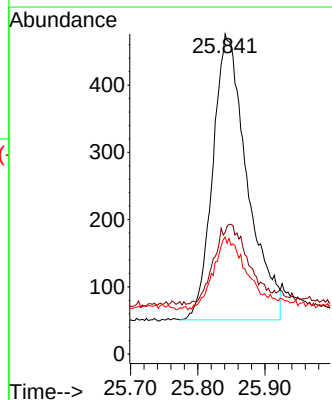
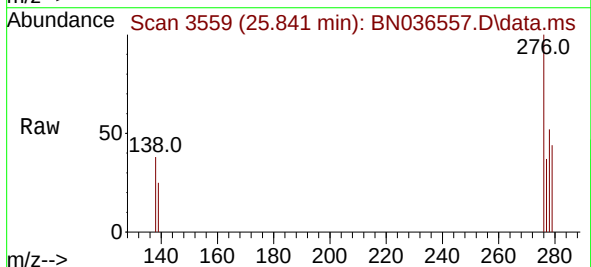
Tgt Ion:276 Resp: 1510

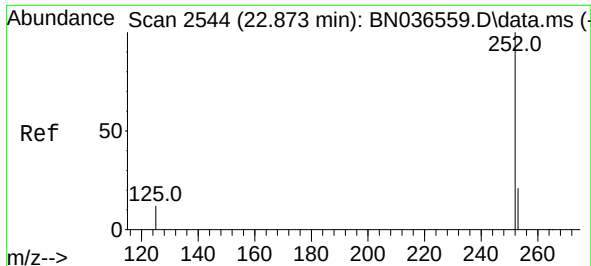
Ion Ratio Lower Upper

276 100

138 27.6 23.4 35.2

277 24.2 20.0 30.0

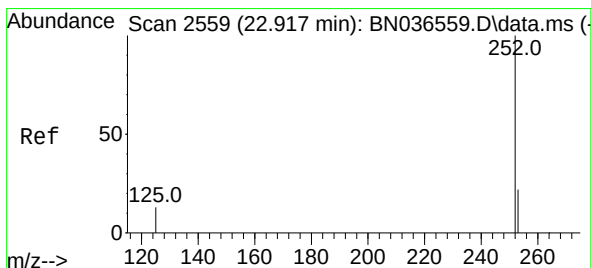
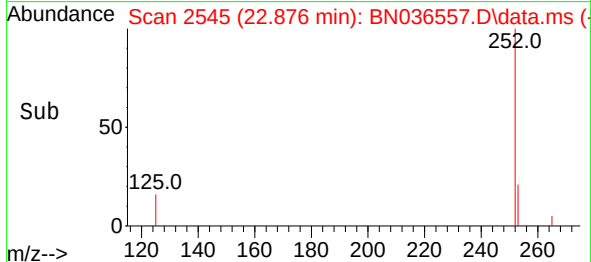
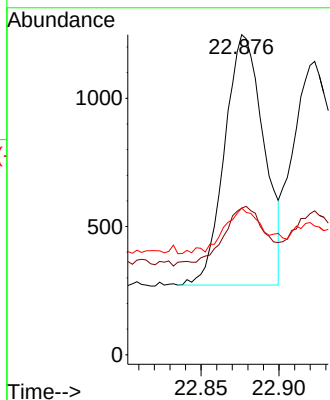
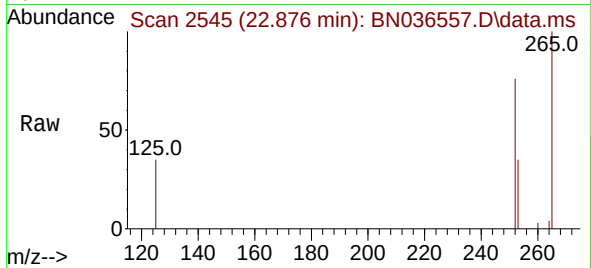




#37
Benzo(b)fluoranthene
Concen: 0.090 ng
RT: 22.876 min Scan# 2544
Delta R.T. 0.003 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

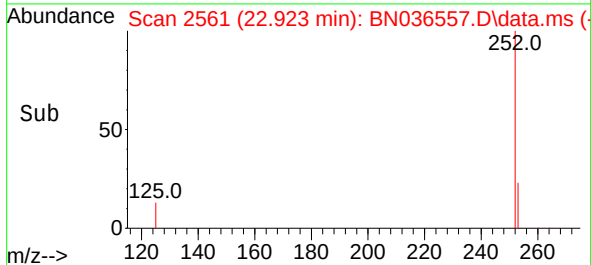
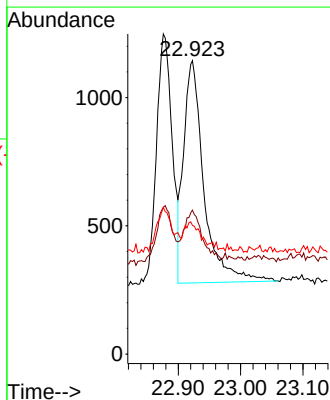
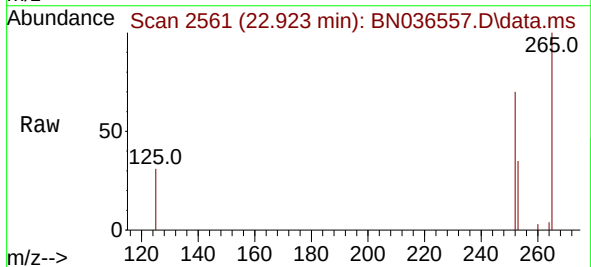
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

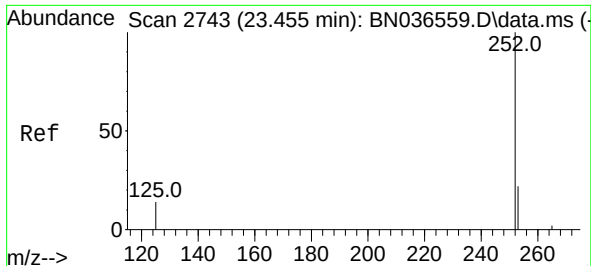
Tgt Ion:252 Resp: 1707
Ion Ratio Lower Upper
252 100
253 45.8 23.9 35.9#
125 45.8 17.4 26.2#



#38
Benzo(k)fluoranthene
Concen: 0.098 ng
RT: 22.923 min Scan# 2561
Delta R.T. 0.006 min
Lab File: BN036557.D
Acq: 10 Mar 2025 11:42

Tgt Ion:252 Resp: 1958
Ion Ratio Lower Upper
252 100
253 49.0 24.6 36.8#
125 43.9 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.089 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036557.D

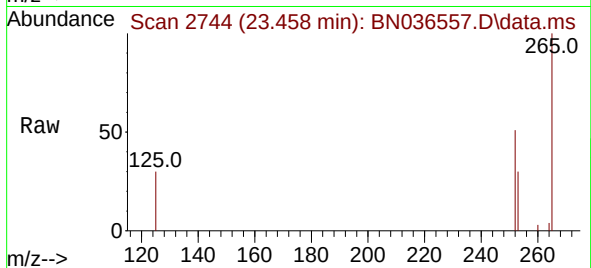
Acq: 10 Mar 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



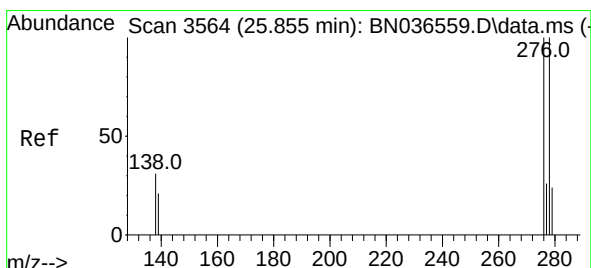
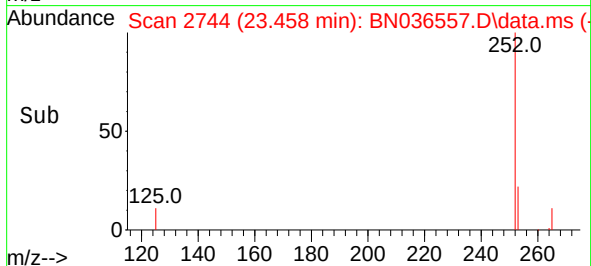
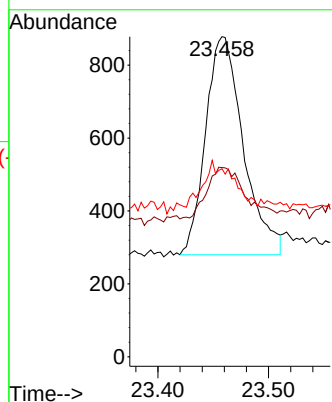
Tgt Ion:252 Resp: 1419

Ion Ratio Lower Upper

252 100

253 59.1 27.8 41.8#

125 58.8 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.079 ng

RT: 25.861 min Scan# 3566

Delta R.T. 0.006 min

Lab File: BN036557.D

Acq: 10 Mar 2025 11:42

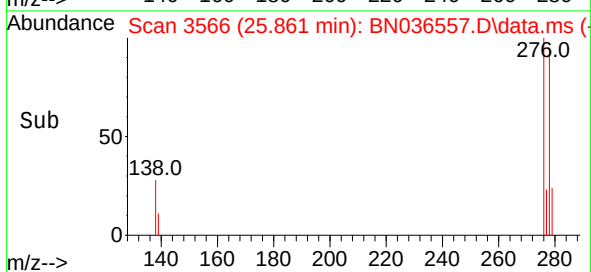
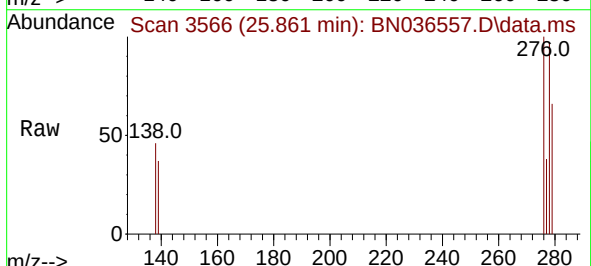
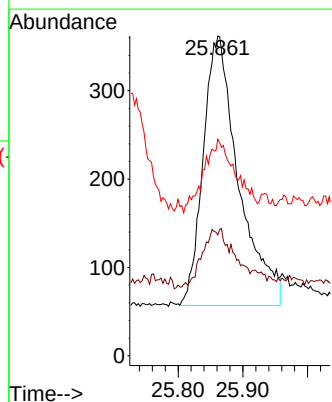
Tgt Ion:278 Resp: 1163

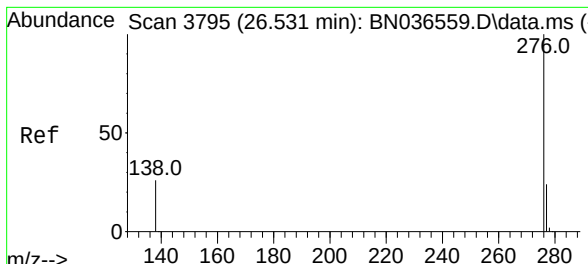
Ion Ratio Lower Upper

278 100

139 37.8 20.8 31.2#

279 67.7 28.8 43.2#



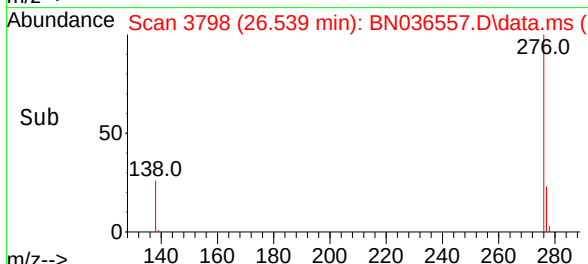
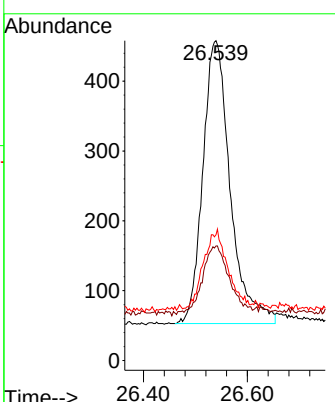
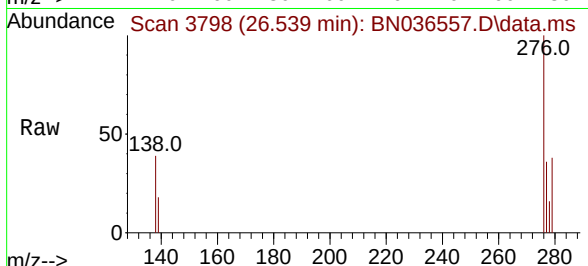


#41
 Benzo(g,h,i)perylene
 Concen: 0.089 ng
 RT: 26.539 min Scan# 31
 Delta R.T. 0.009 min
 Lab File: BN036557.D
 Acq: 10 Mar 2025 11:42

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Tgt Ion:276 Resp: 1482

Ion	Ratio	Lower	Upper
276	100		
277	35.8	22.2	33.4#
138	39.3	24.1	36.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
 Data File : BN036558.D
 Acq On : 10 Mar 2025 12:18
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Mar 10 16:00:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:54:23 2025
 Response via : Initial Calibration

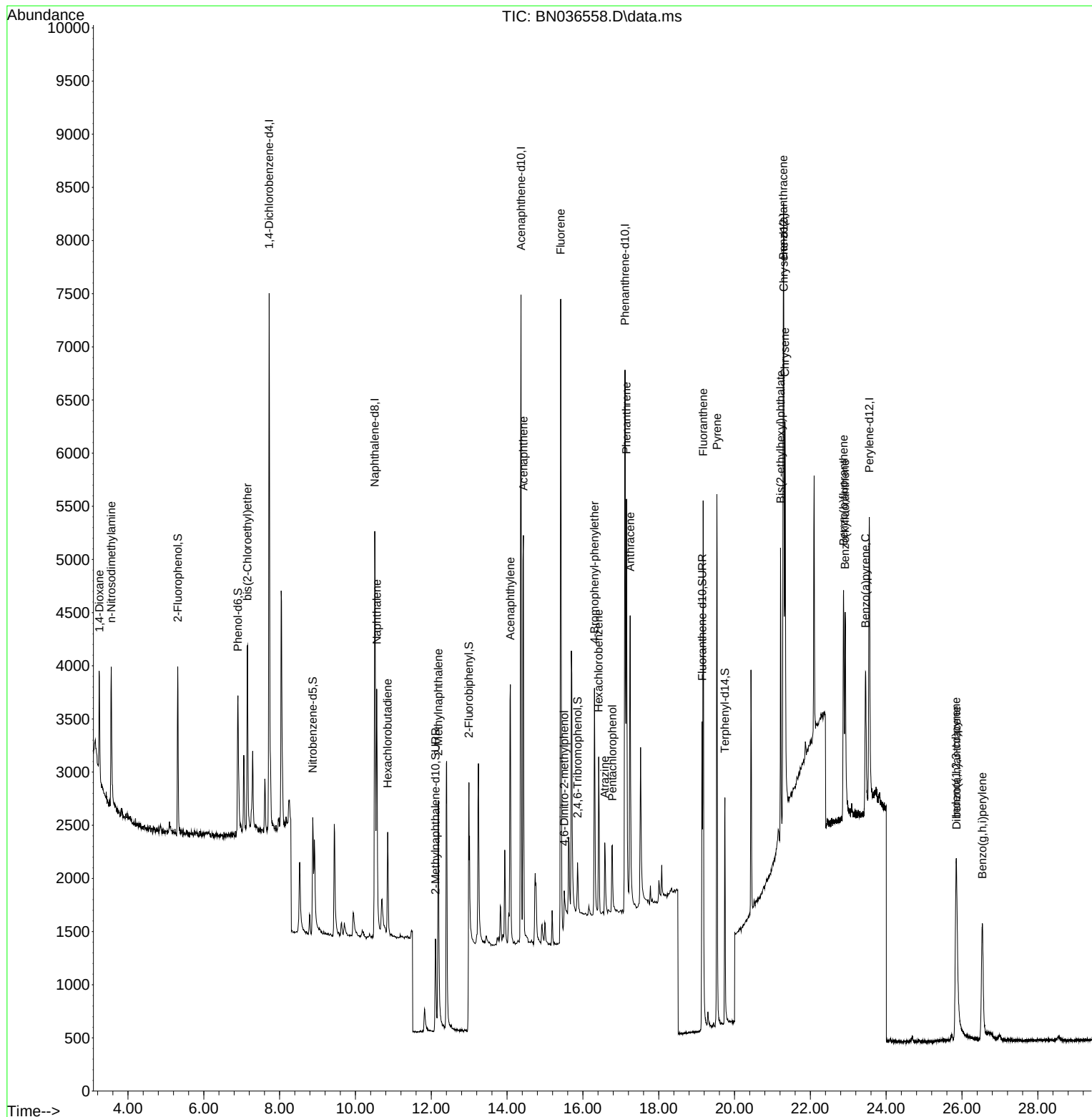
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2504	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5844	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3516	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	7506	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4730	0.400	ng	0.00
35) Perylene-d12	23.554	264	4241	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	1137	0.195	ng	0.00
5) Phenol-d6	6.901	99	1323	0.184	ng	0.00
8) Nitrobenzene-d5	8.875	82	1156	0.182	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	1603	0.184	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	282	0.177	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	3485	0.170	ng	0.00
27) Fluoranthene-d10	19.146	212	3583	0.186	ng	0.00
31) Terphenyl-d14	19.745	244	2283	0.201	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	700	0.252	ng	91
3) n-Nitrosodimethylamine	3.557	42	1094	0.195	ng	92
6) bis(2-Chloroethyl)ether	7.154	93	1440	0.193	ng	99
9) Naphthalene	10.562	128	3286	0.191	ng	97
10) Hexachlorobutadiene	10.850	225	828	0.205	ng	# 97
12) 2-Methylnaphthalene	12.187	142	2034	0.186	ng	97
16) Acenaphthylene	14.088	152	3087	0.186	ng	100
17) Acenaphthene	14.430	154	2038	0.188	ng	99
18) Fluorene	15.414	166	2813	0.191	ng	99
20) 4,6-Dinitro-2-methylph...	15.510	198	214	0.258	ng	# 69
21) 4-Bromophenyl-phenylether	16.304	248	853	0.181	ng	93
22) Hexachlorobenzene	16.416	284	1079	0.190	ng	99
23) Atrazine	16.578	200	716	0.190	ng	97
24) Pentachlorophenol	16.776	266	435	0.168	ng	98
25) Phenanthrene	17.148	178	4171	0.185	ng	100
26) Anthracene	17.248	178	3645	0.179	ng	99
28) Fluoranthene	19.174	202	4666	0.184	ng	99
30) Pyrene	19.536	202	4742	0.205	ng	100
32) Benzo(a)anthracene	21.286	228	3111	0.189	ng	97
33) Chrysene	21.331	228	3568	0.199	ng	97
34) Bis(2-ethylhexyl)phtha...	21.214	149	2601	0.222	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.844	276	2790	0.182	ng	98
37) Benzo(b)fluoranthene	22.876	252	2883	0.187	ng	# 83
38) Benzo(k)fluoranthene	22.917	252	2962	0.183	ng	# 86
39) Benzo(a)pyrene	23.458	252	2443	0.188	ng	# 76
40) Dibenzo(a,h)anthracene	25.858	278	2080	0.175	ng	# 83
41) Benzo(g,h,i)perylene	26.536	276	2573	0.189	ng	95

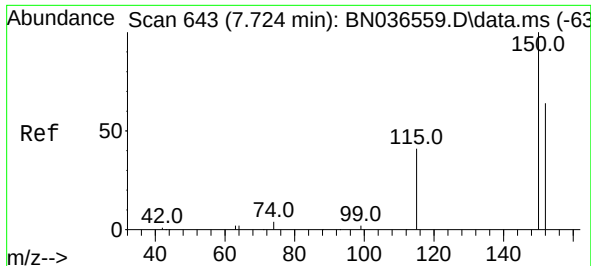
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031025\
Data File : BN036558.D
Acq On : 10 Mar 2025 12:18
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

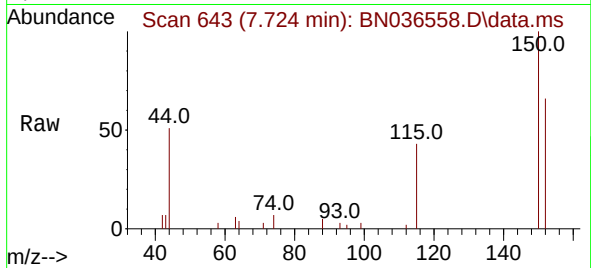
Quant Time: Mar 10 16:00:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:54:23 2025
Response via : Initial Calibration



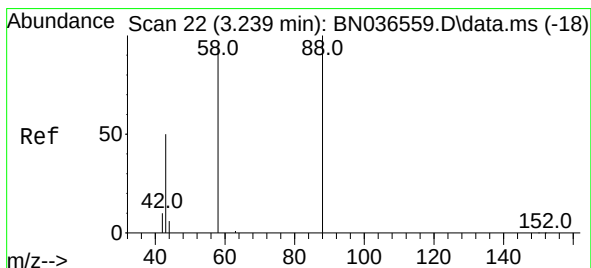
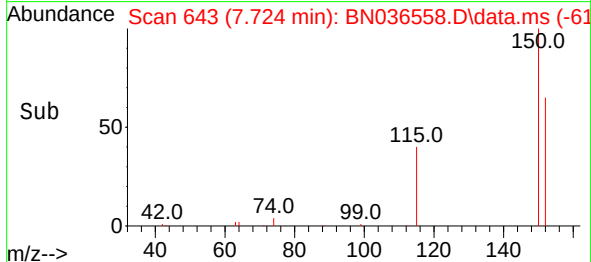
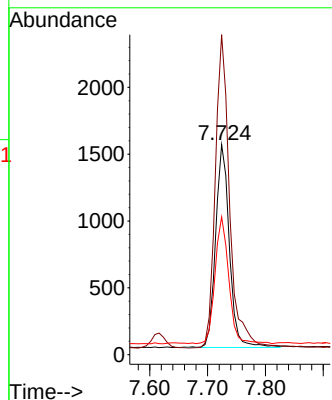


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.724 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

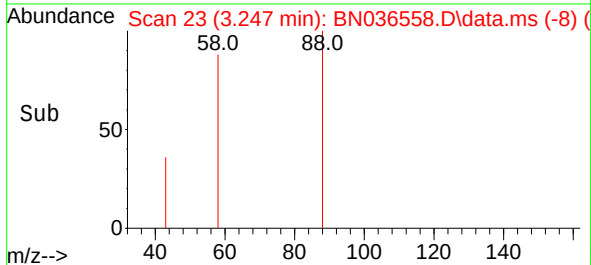
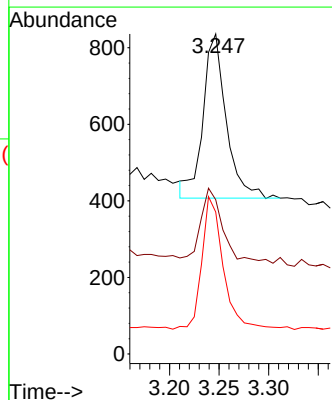
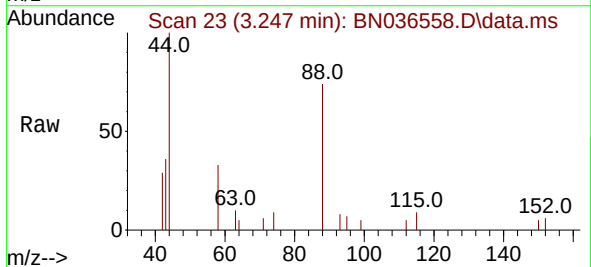


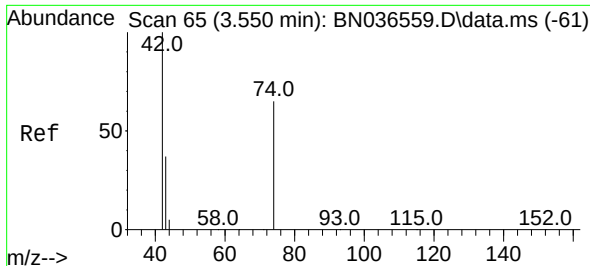
Tgt Ion:152 Resp: 2504
 Ion Ratio Lower Upper
 152 100
 150 152.3 123.7 185.5
 115 65.5 54.3 81.5



#2
 1,4-Dioxane
 Concen: 0.252 ng
 RT: 3.247 min Scan# 23
 Delta R.T. 0.007 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Tgt Ion: 88 Resp: 700
 Ion Ratio Lower Upper
 88 100
 43 44.4 37.8 56.8
 58 73.7 67.4 101.2

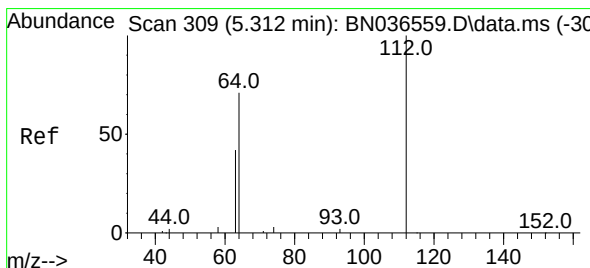
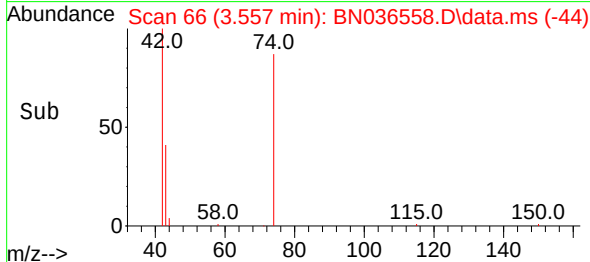
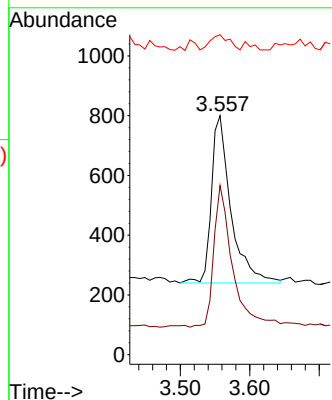
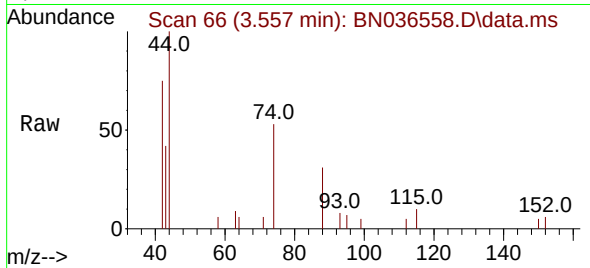




#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.557 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

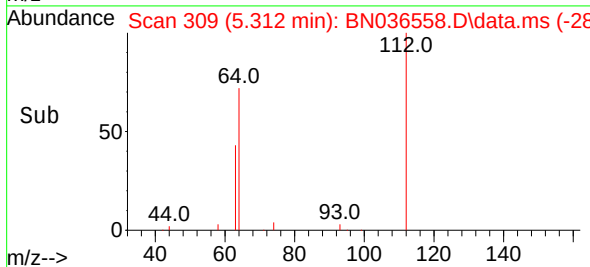
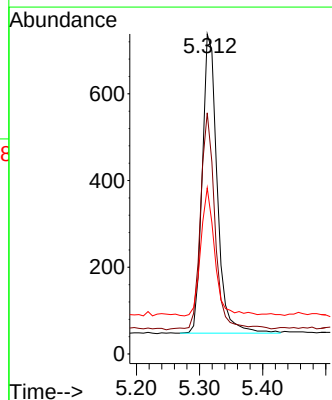
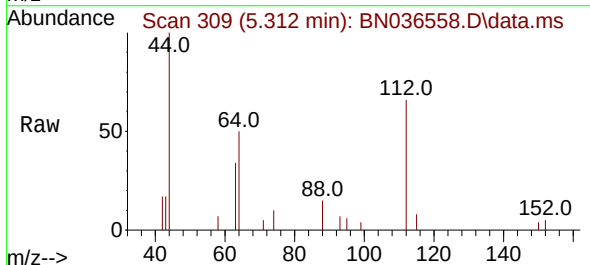
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

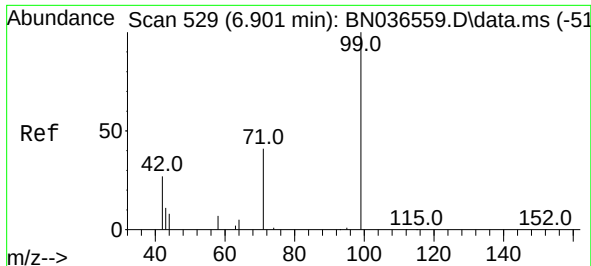
Tgt Ion: 42 Resp: 1094
Ion Ratio Lower Upper
42 100
74 83.2 60.6 90.8
44 8.5 6.3 9.5



#4
2-Fluorophenol
Concen: 0.195 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 112 Resp: 1137
Ion Ratio Lower Upper
112 100
64 70.6 53.1 79.7
63 40.3 31.8 47.8

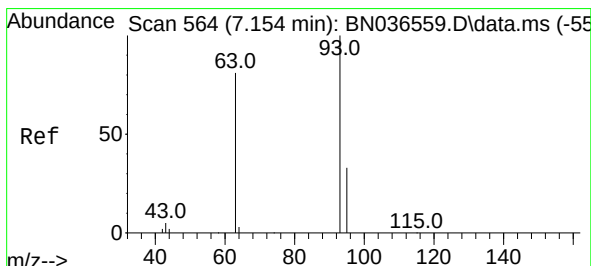
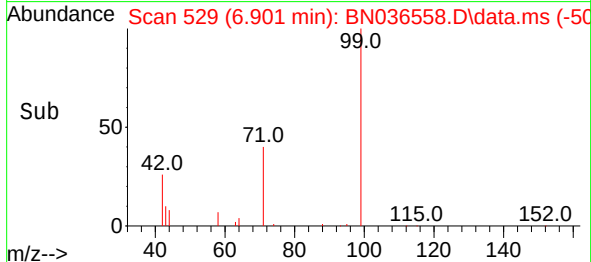
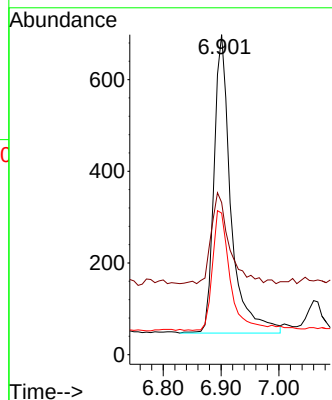
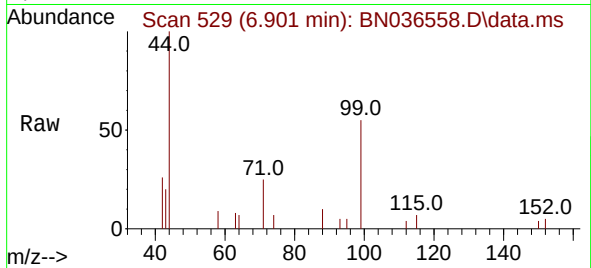




#5
Phenol-d6
Concen: 0.184 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

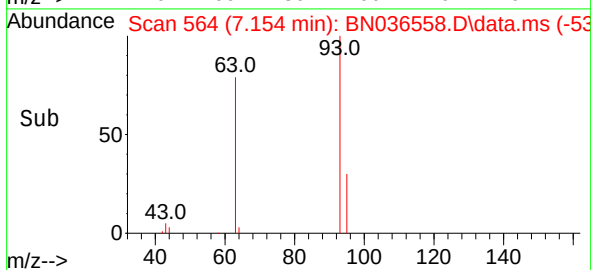
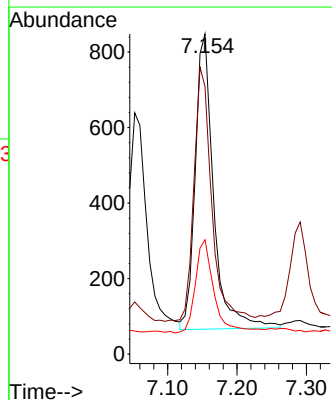
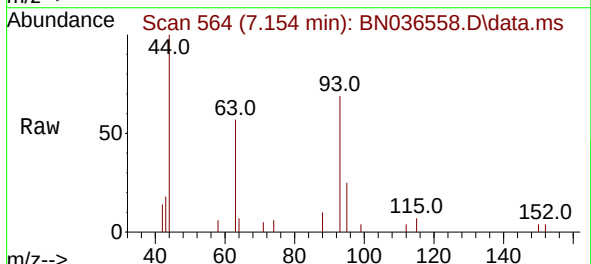
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

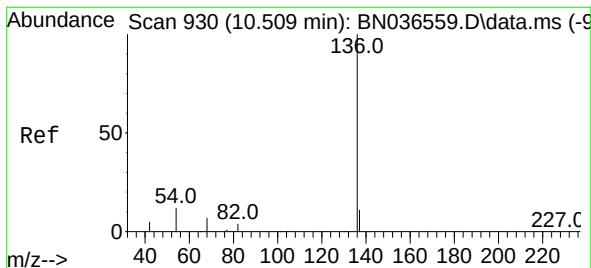
Tgt Ion: 99 Resp: 1323
Ion Ratio Lower Upper
99 100
42 32.7 26.5 39.7
71 41.3 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion: 93 Resp: 1440
Ion Ratio Lower Upper
93 100
63 82.9 67.7 101.5
95 31.9 25.6 38.4





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.509 min Scan# 930

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:136 Resp: 5844

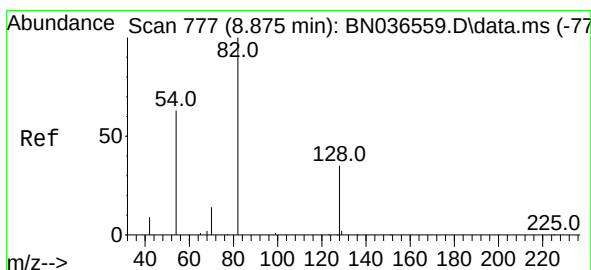
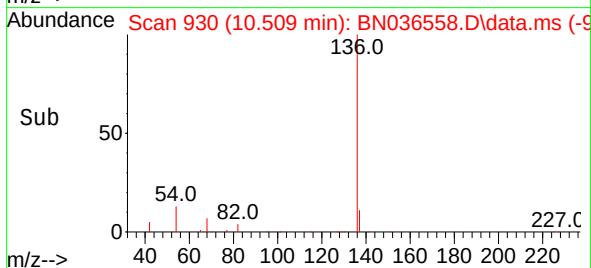
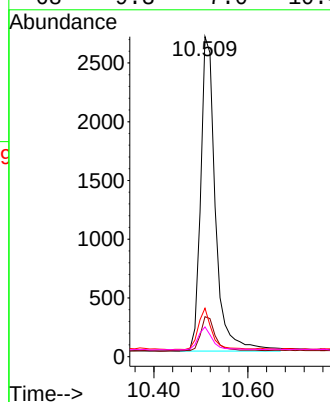
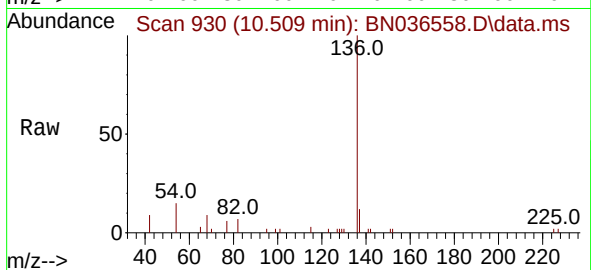
Ion Ratio Lower Upper

136 100

137 12.5 10.3 15.5

54 15.1 11.5 17.3

68 9.3 7.0 10.4



#8

Nitrobenzene-d5

Concen: 0.182 ng

RT: 8.875 min Scan# 777

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

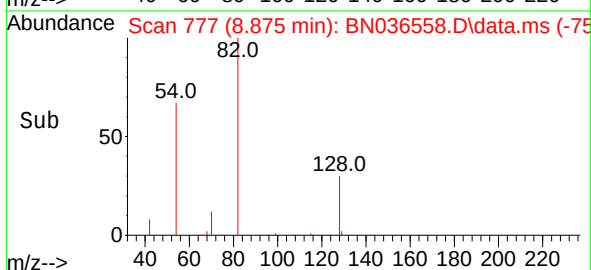
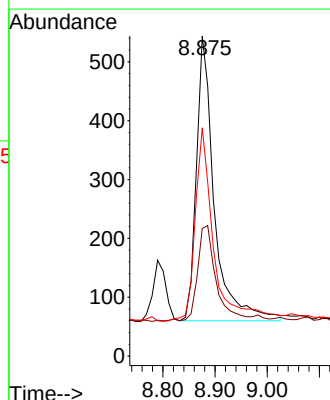
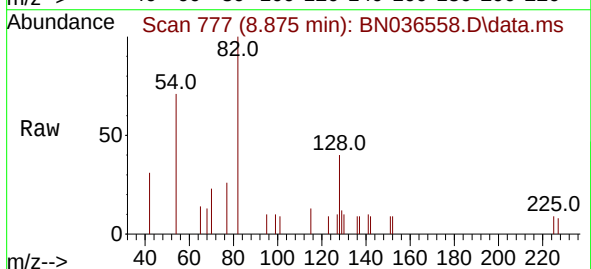
Tgt Ion: 82 Resp: 1156

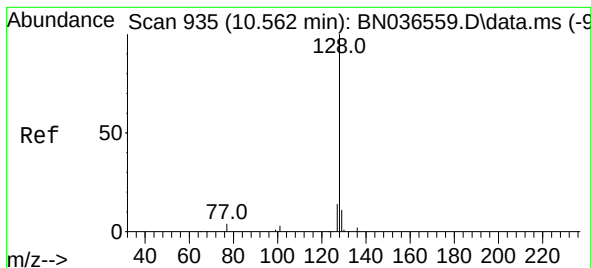
Ion Ratio Lower Upper

82 100

128 39.9 30.6 45.8

54 71.3 52.2 78.4





#9

Naphthalene

Concen: 0.191 ng

RT: 10.562 min Scan# 935

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

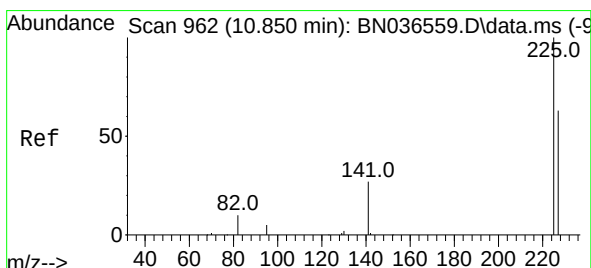
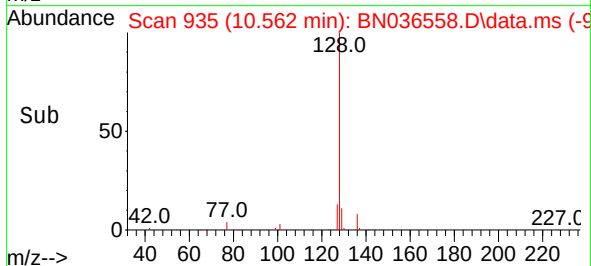
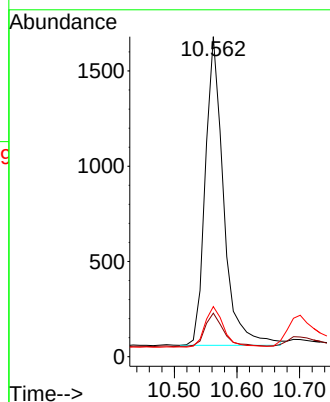
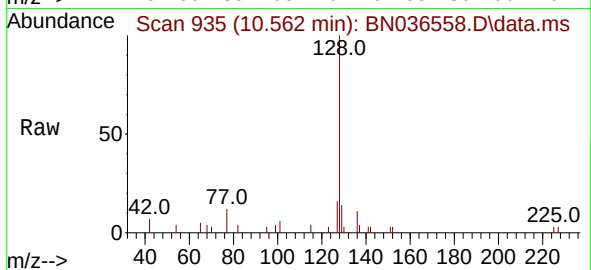
Tgt Ion:128 Resp: 3286

Ion Ratio Lower Upper

128 100

129 13.6 9.8 14.6

127 15.7 11.8 17.8



#10

Hexachlorobutadiene

Concen: 0.205 ng

RT: 10.850 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

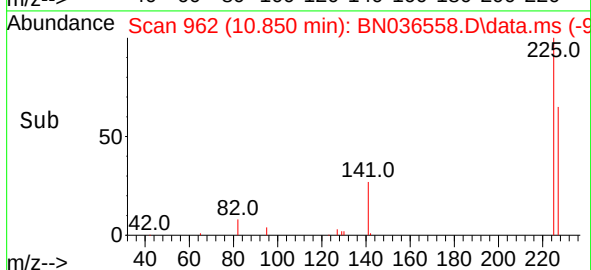
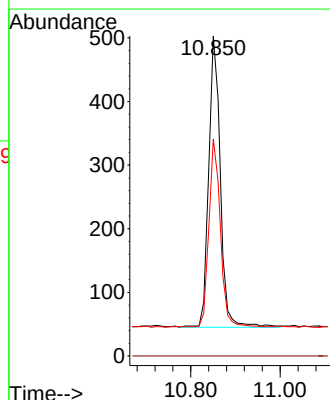
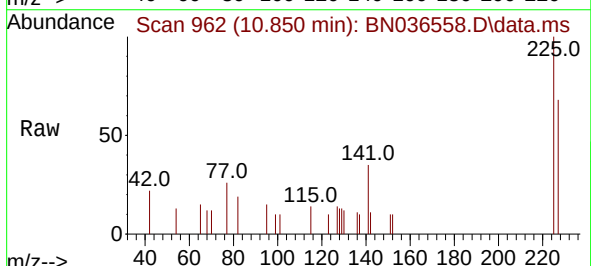
Tgt Ion:225 Resp: 828

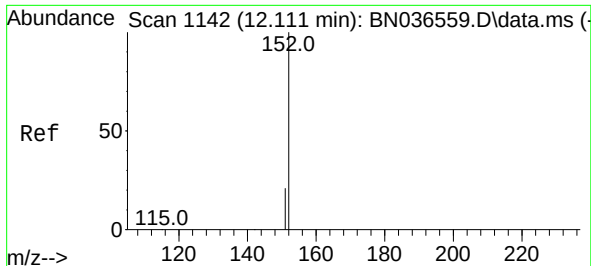
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 62.6 51.8 77.8





#11

2-Methylnaphthalene-d10

Concen: 0.184 ng

RT: 12.111 min Scan# 1142

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

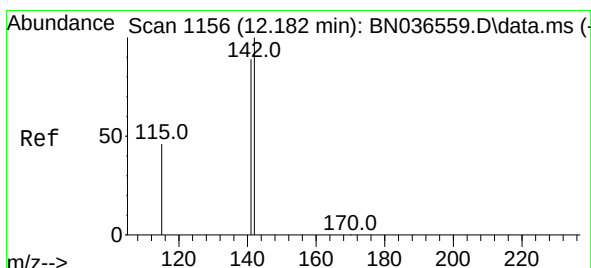
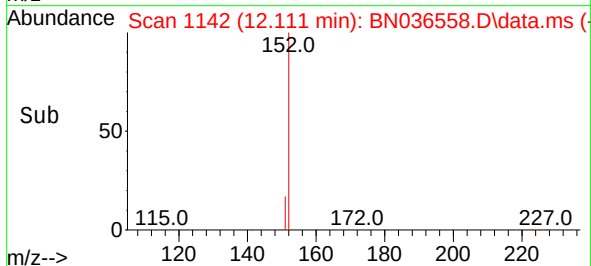
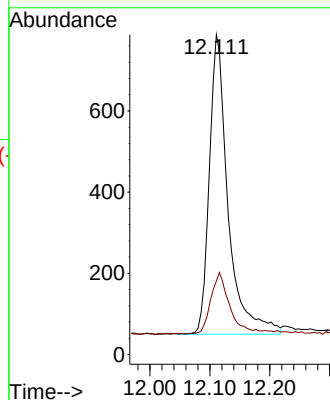
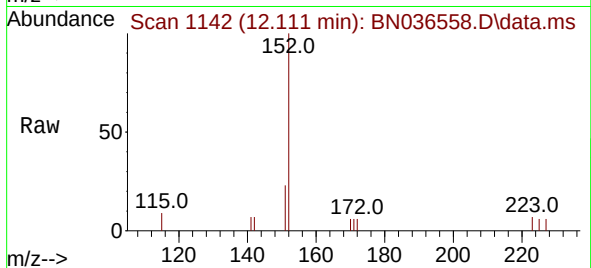
SSTDICC0.2

Tgt Ion:152 Resp: 1603

Ion Ratio Lower Upper

152 100

151 21.0 17.0 25.6



#12

2-Methylnaphthalene

Concen: 0.186 ng

RT: 12.187 min Scan# 1157

Delta R.T. 0.005 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

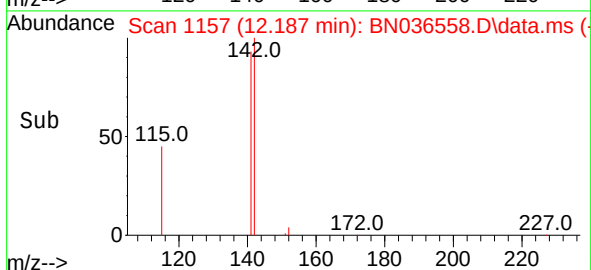
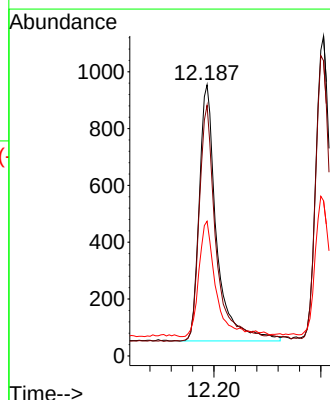
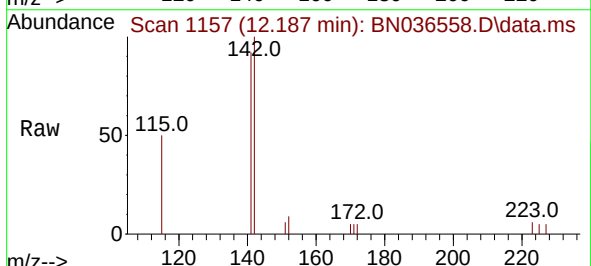
Tgt Ion:142 Resp: 2034

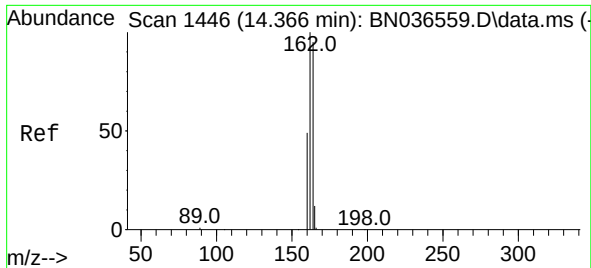
Ion Ratio Lower Upper

142 100

141 92.5 71.7 107.5

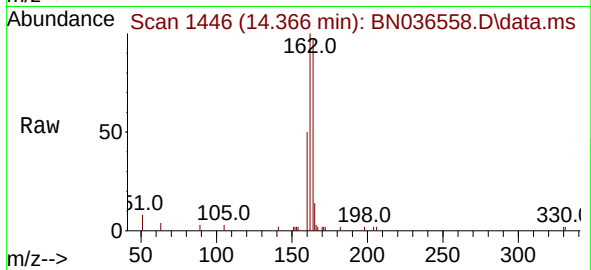
115 49.7 38.3 57.5



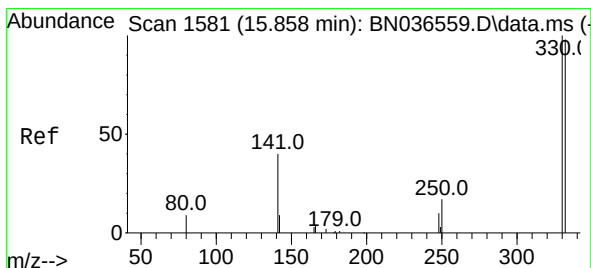
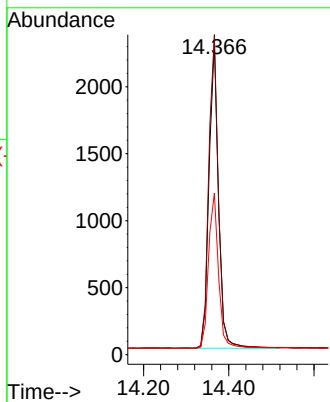
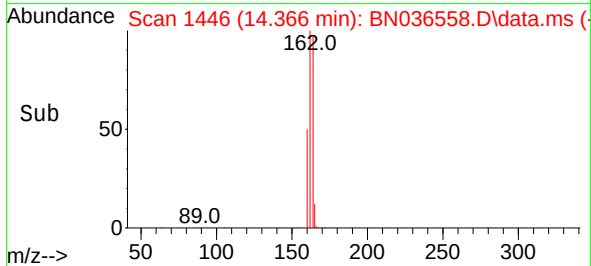


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

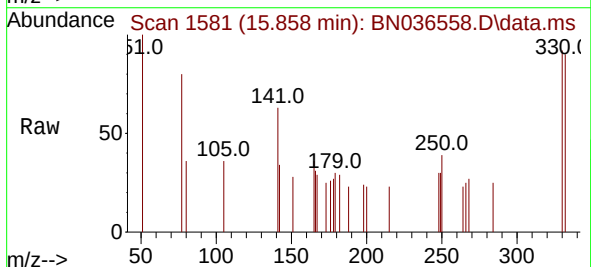
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2



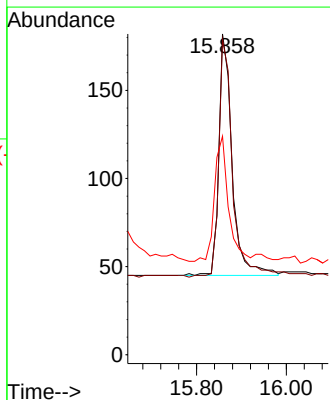
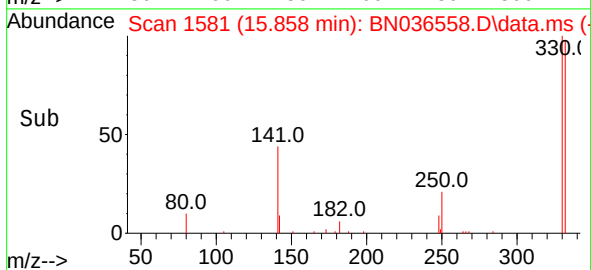
Tgt Ion:164 Resp: 3516
Ion Ratio Lower Upper
164 100
162 102.6 84.2 126.2
160 51.8 42.2 63.2

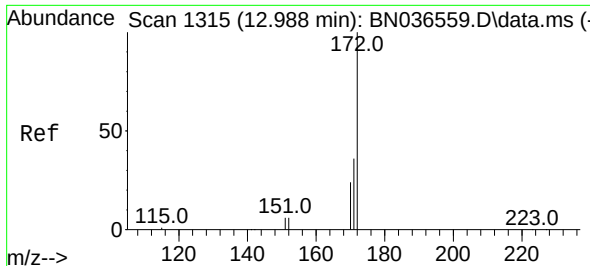


#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18



Tgt Ion:330 Resp: 282
Ion Ratio Lower Upper
330 100
332 103.5 75.2 112.8
141 53.9 43.4 65.2





#15

2-Fluorobiphenyl

Concen: 0.170 ng

RT: 12.993 min Scan# 1419

Delta R.T. 0.005 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

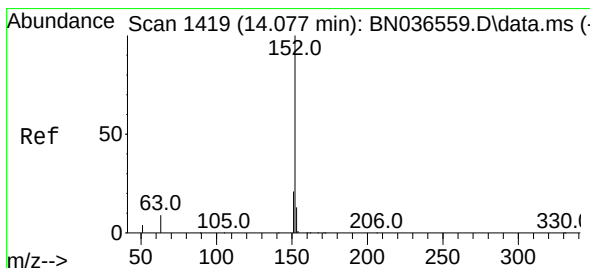
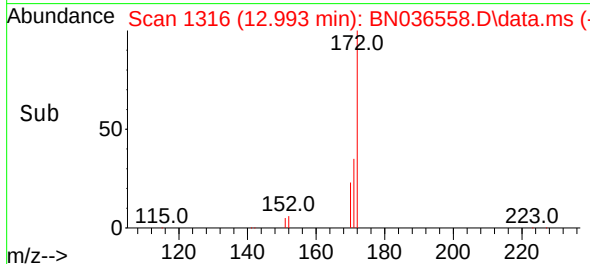
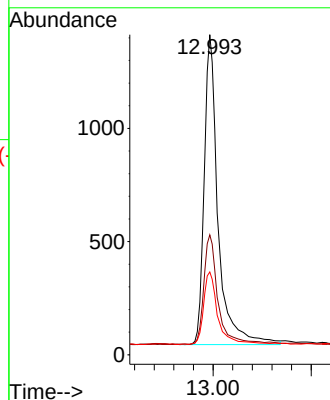
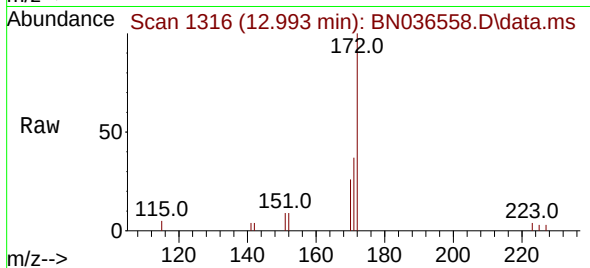
Tgt Ion:172 Resp: 3485

Ion Ratio Lower Upper

172 100

171 37.5 29.5 44.3

170 25.9 20.2 30.4



#16

Acenaphthylene

Concen: 0.186 ng

RT: 14.088 min Scan# 1420

Delta R.T. 0.011 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

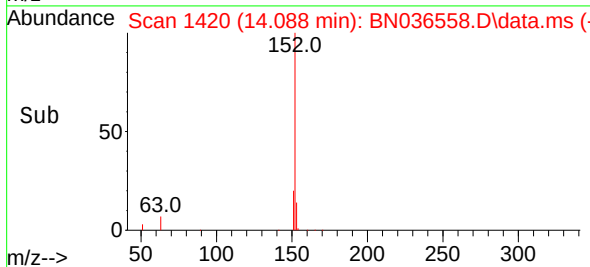
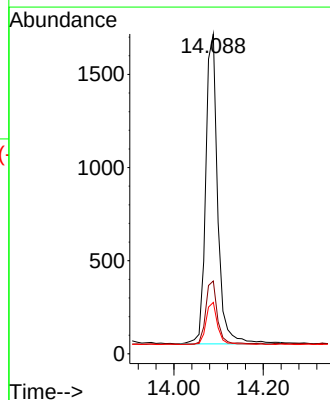
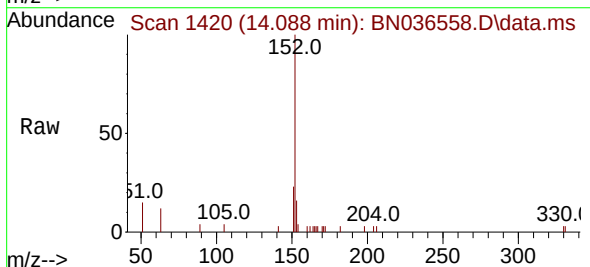
Tgt Ion:152 Resp: 3087

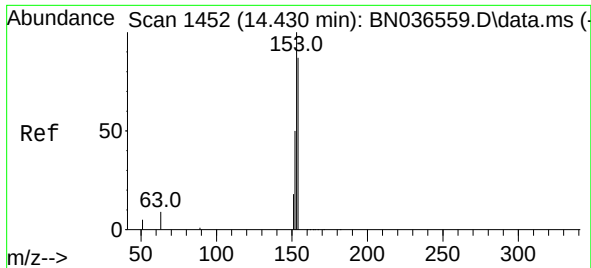
Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.4

153 13.0 10.6 15.8

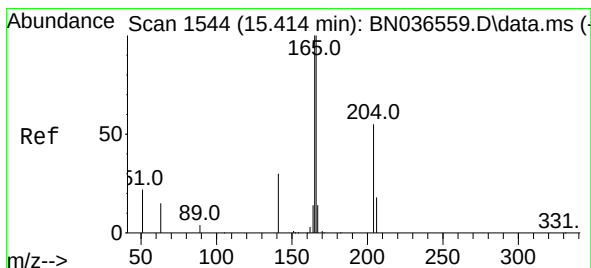
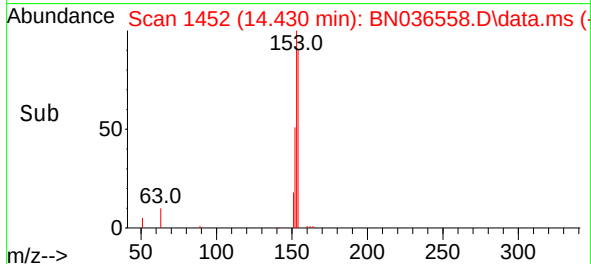
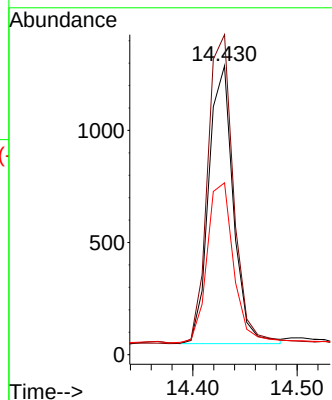
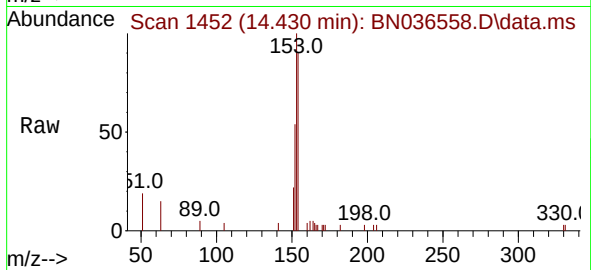




#17
Acenaphthene
Concen: 0.188 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

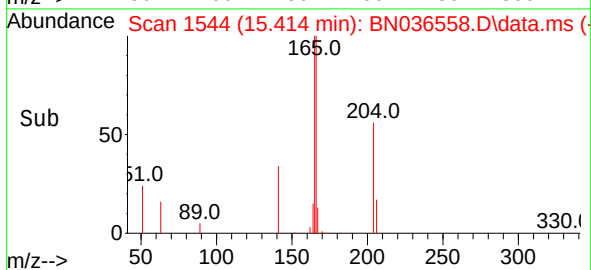
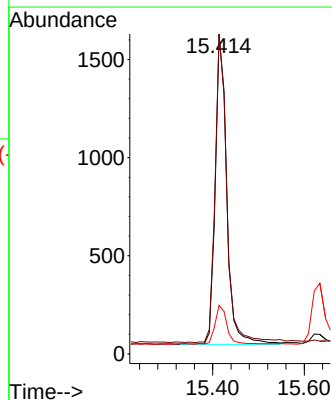
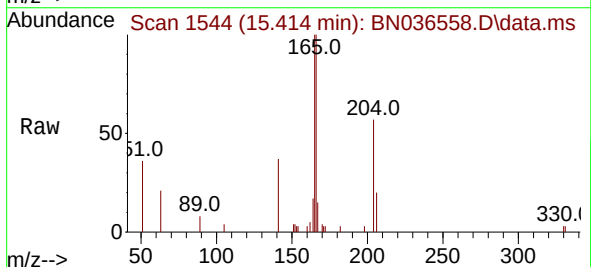
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

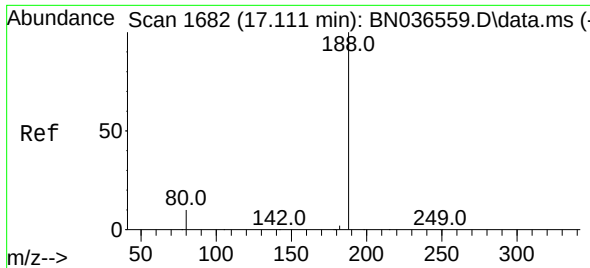
Tgt Ion:154 Resp: 2038
Ion Ratio Lower Upper
154 100
153 117.8 94.1 141.1
152 63.1 49.8 74.6



#18
Fluorene
Concen: 0.191 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:166 Resp: 2813
Ion Ratio Lower Upper
166 100
165 101.1 79.8 119.8
167 12.6 10.6 15.8

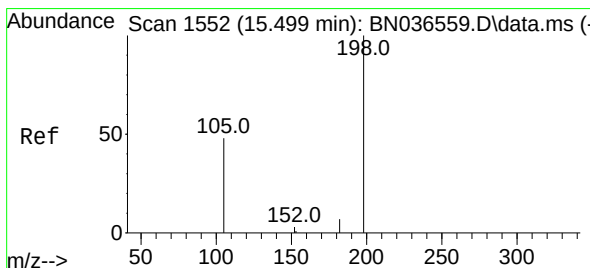
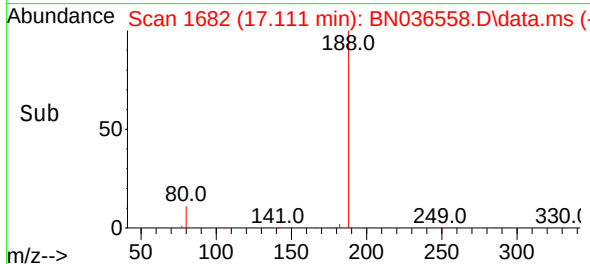
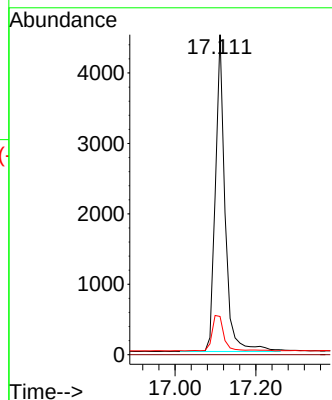
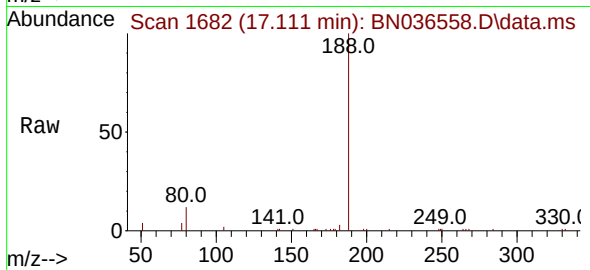




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

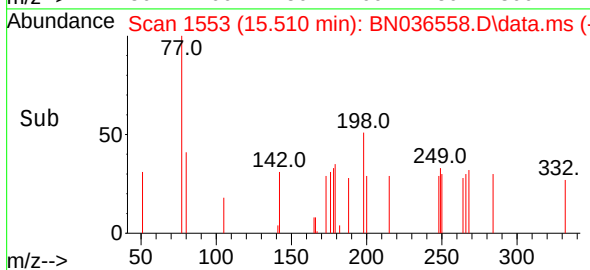
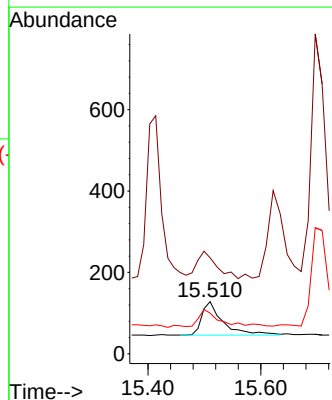
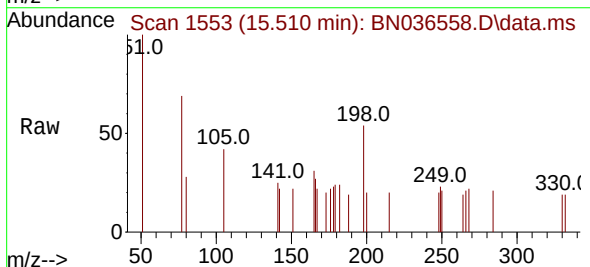
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

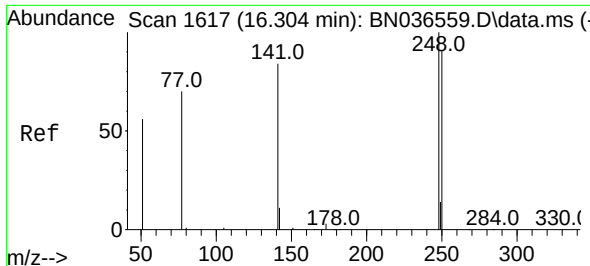
Tgt Ion:188 Resp: 7506
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.9 8.8 13.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.258 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:198 Resp: 214
Ion Ratio Lower Upper
198 100
51 184.4 107.9 161.9#
105 78.1 56.2 84.2

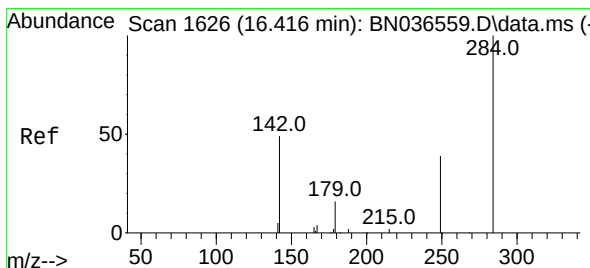
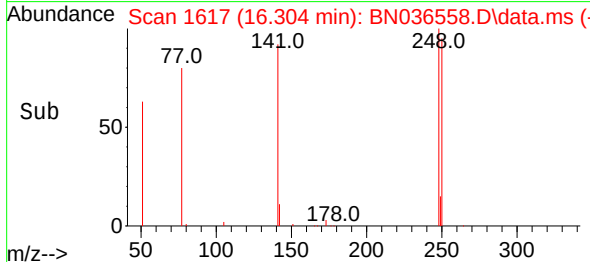
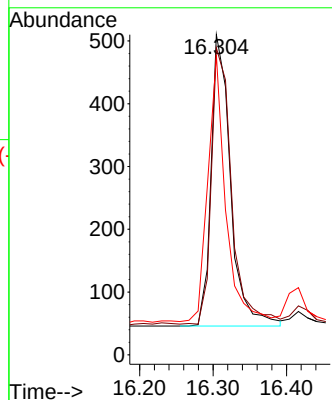
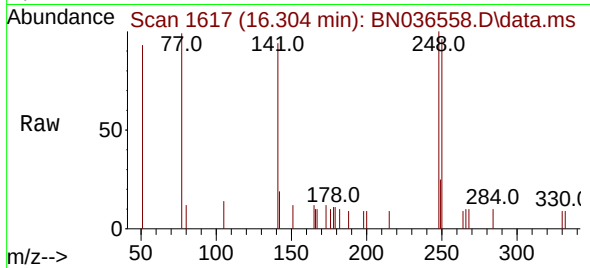




#21
4-Bromophenyl-phenylether
Concen: 0.181 ng
RT: 16.304 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

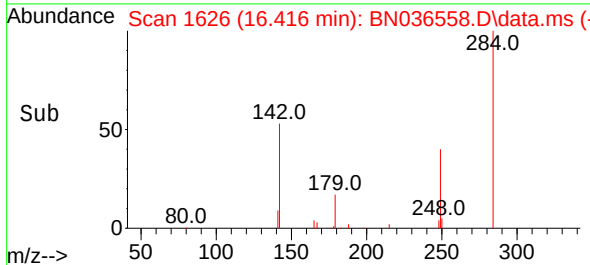
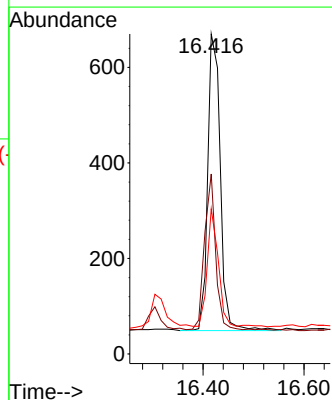
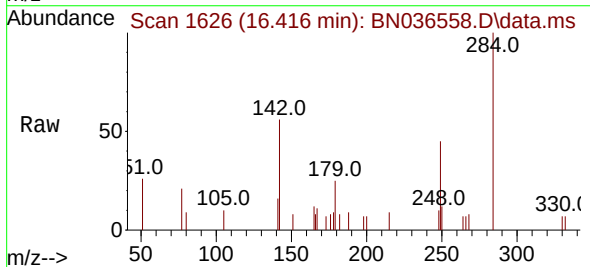
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

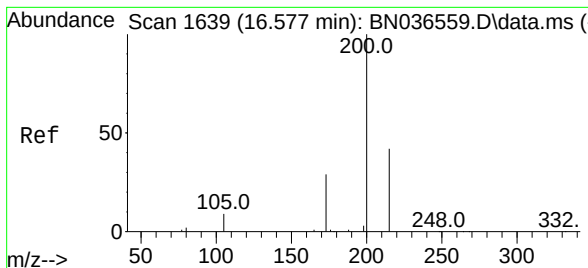
Tgt Ion:	248	Resp:	853
Ion Ratio	Lower	Upper	
248	100		
250	95.9	73.0	109.6
141	93.7	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:	284	Resp:	1079
Ion Ratio	Lower	Upper	
284	100		
142	47.0	37.0	55.4
249	34.8	28.1	42.1





#23

Atrazine

Concen: 0.190 ng

RT: 16.578 min Scan# 1639

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

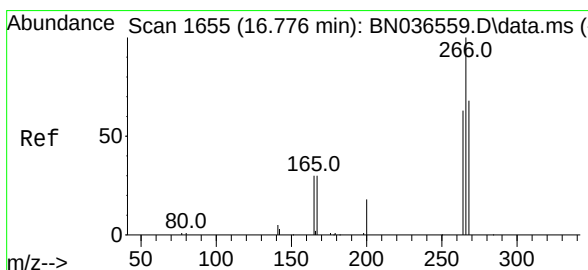
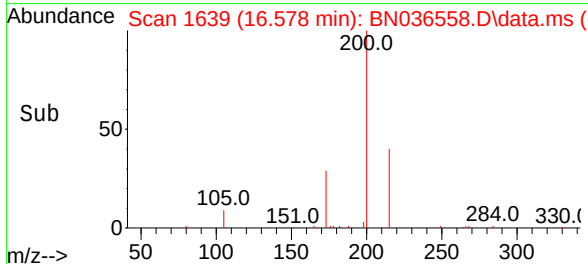
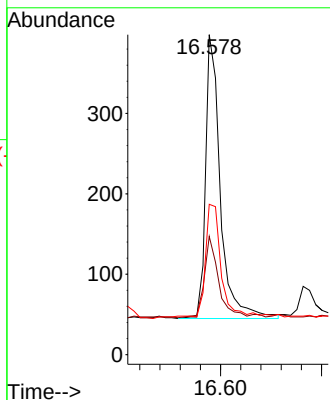
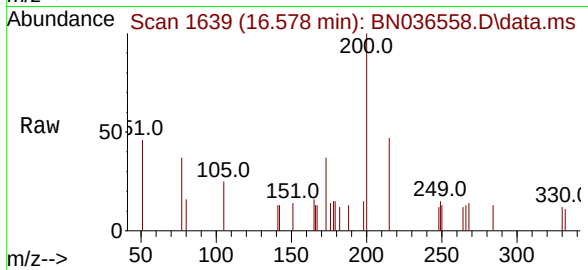
Tgt Ion:200 Resp: 716

Ion Ratio Lower Upper

200 100

173 36.9 27.3 40.9

215 47.0 36.8 55.2



#24

Pentachlorophenol

Concen: 0.168 ng

RT: 16.776 min Scan# 1655

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

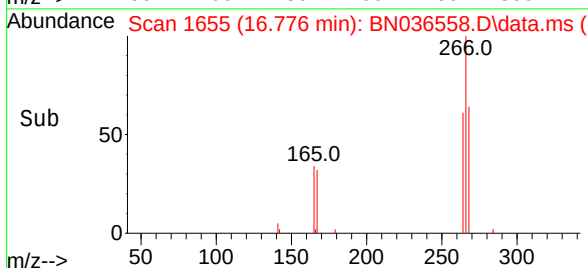
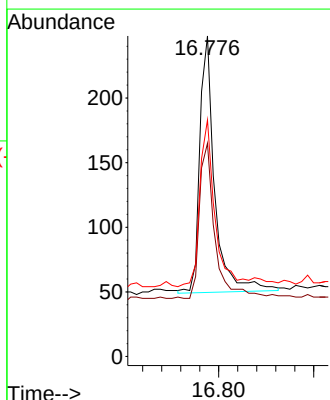
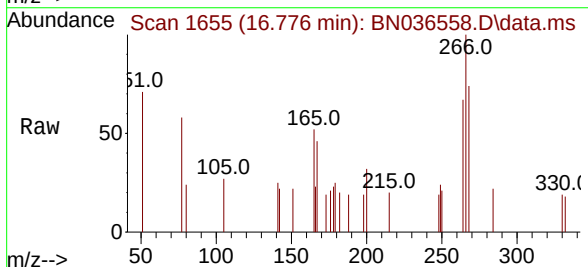
Tgt Ion:266 Resp: 435

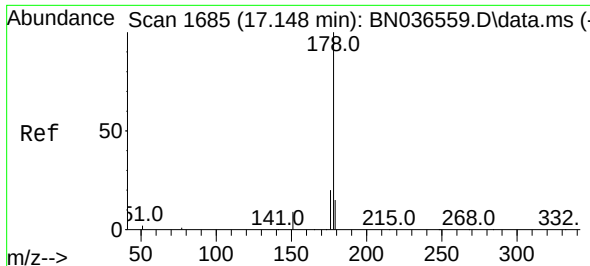
Ion Ratio Lower Upper

266 100

264 63.4 49.6 74.4

268 65.7 50.9 76.3

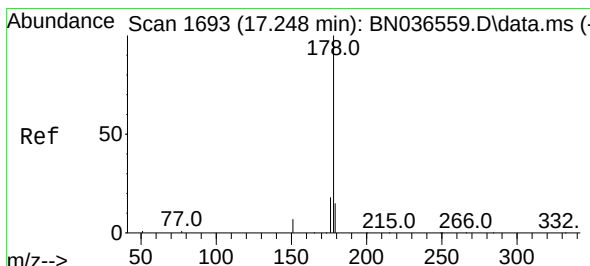
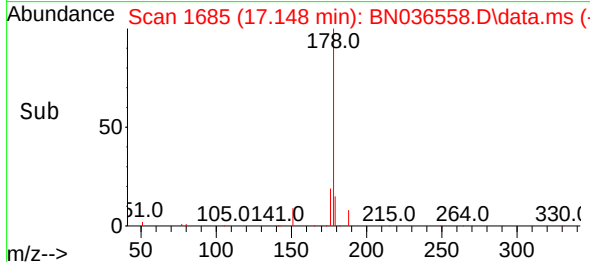
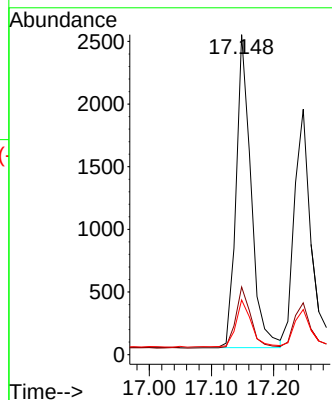
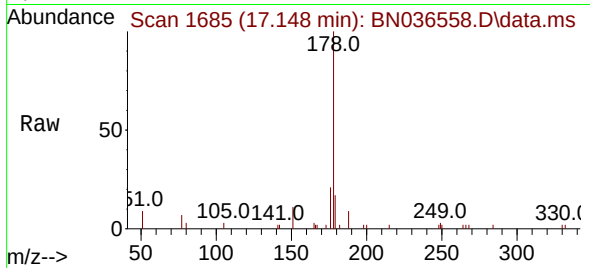




#25
 Phenanthrene
 Concen: 0.185 ng
 RT: 17.148 min Scan# 1685
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

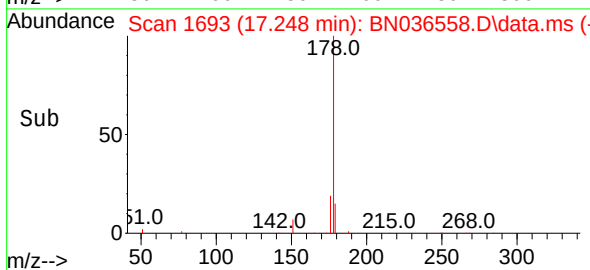
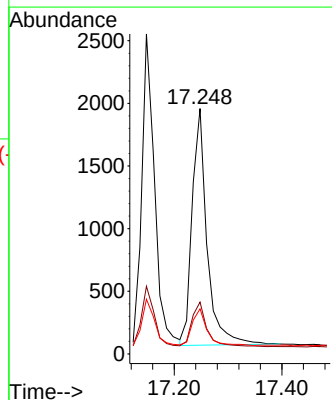
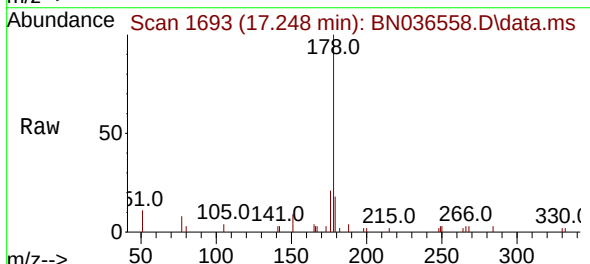
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

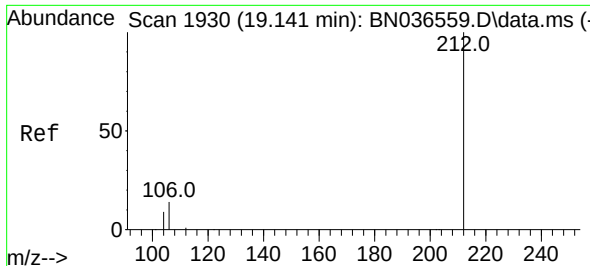
Tgt Ion:	178	Resp:	4171
Ion Ratio	Lower	Upper	
178	100		
176	20.0	15.9	23.9
179	15.5	12.2	18.4



#26
 Anthracene
 Concen: 0.179 ng
 RT: 17.248 min Scan# 1693
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Tgt Ion:	178	Resp:	3645
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.4	23.2
179	15.1	12.6	18.8

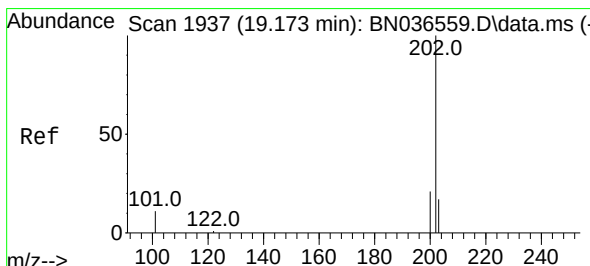
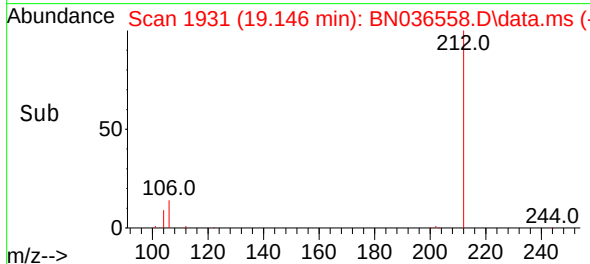
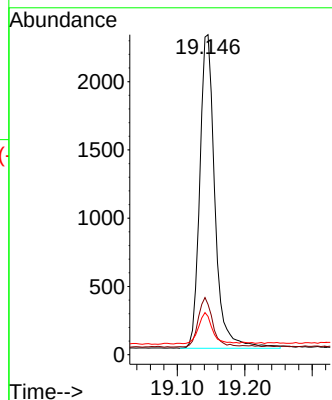
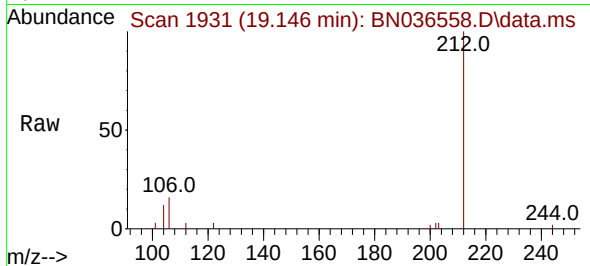




#27
Fluoranthene-d10
Concen: 0.186 ng
RT: 19.146 min Scan# 1931
Delta R.T. 0.005 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

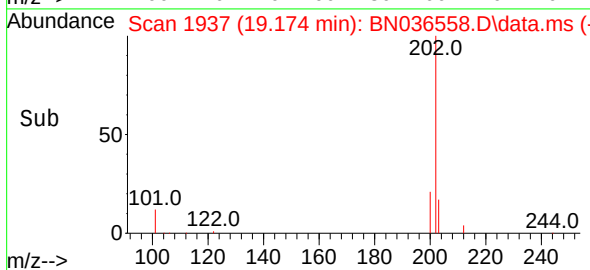
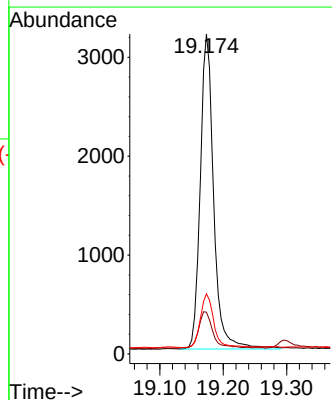
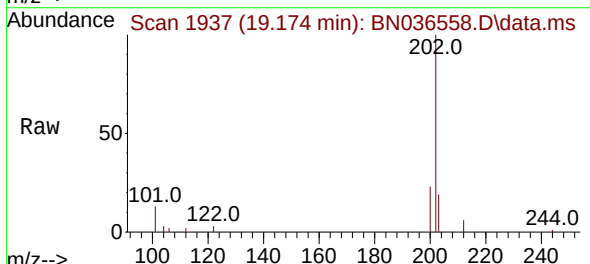
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

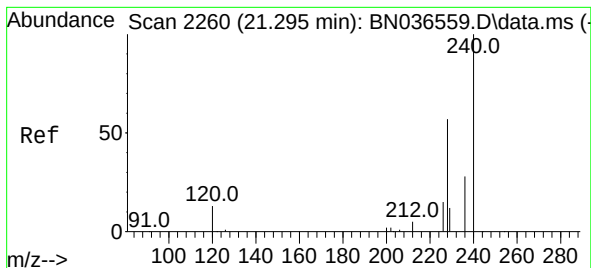
Tgt Ion:212 Resp: 3583
Ion Ratio Lower Upper
212 100
106 15.0 11.8 17.6
104 9.3 7.3 10.9



#28
Fluoranthene
Concen: 0.184 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:202 Resp: 4666
Ion Ratio Lower Upper
202 100
101 12.1 9.4 14.0
203 17.1 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

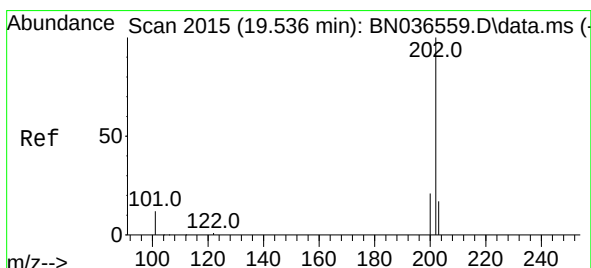
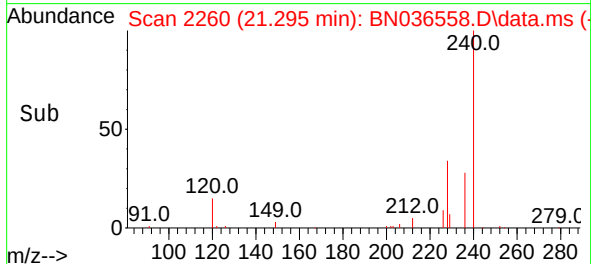
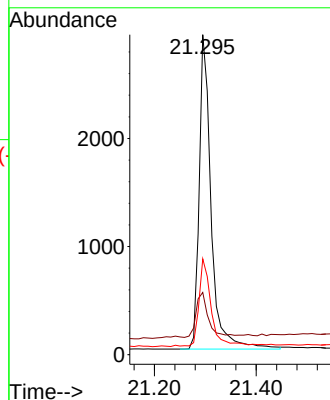
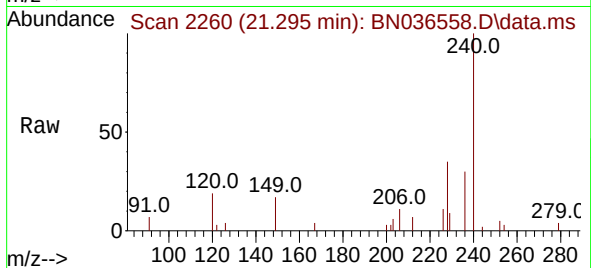
Tgt Ion:240 Resp: 4730

Ion Ratio Lower Upper

240 100

120 19.5 14.6 22.0

236 29.9 24.1 36.1



#30

Pyrene

Concen: 0.205 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

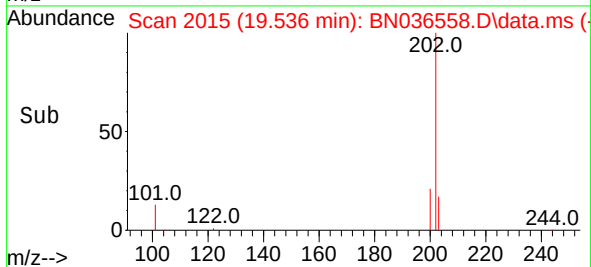
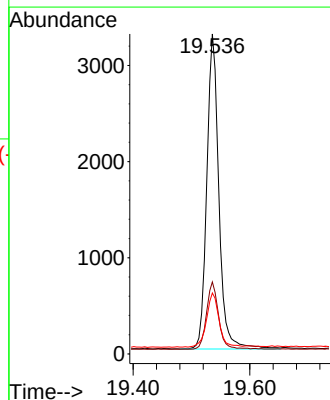
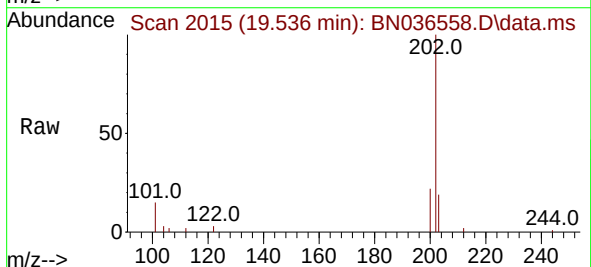
Tgt Ion:202 Resp: 4742

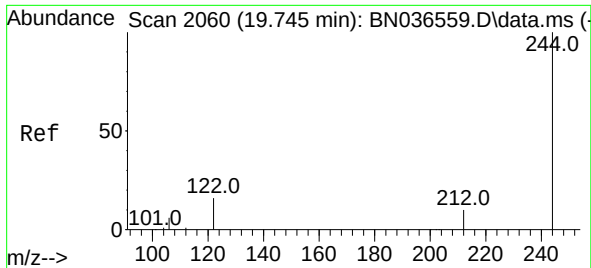
Ion Ratio Lower Upper

202 100

200 21.1 17.1 25.7

203 17.7 14.1 21.1

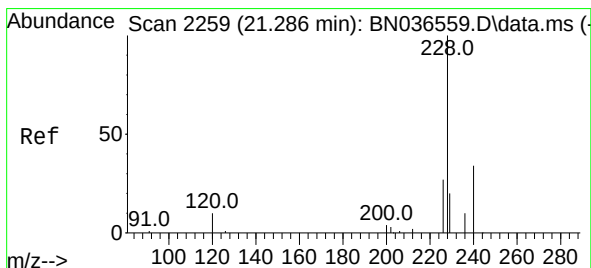
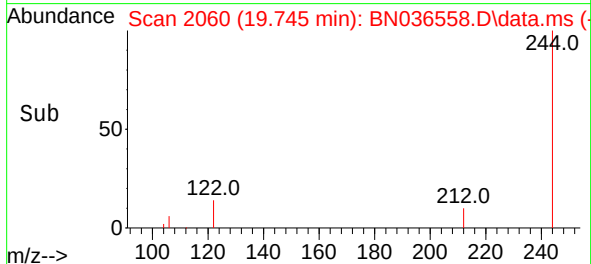
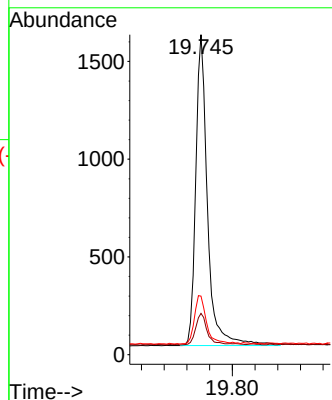
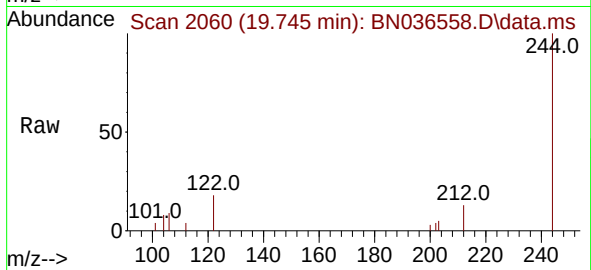




#31
 Terphenyl-d14
 Concen: 0.201 ng
 RT: 19.745 min Scan# 2060
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

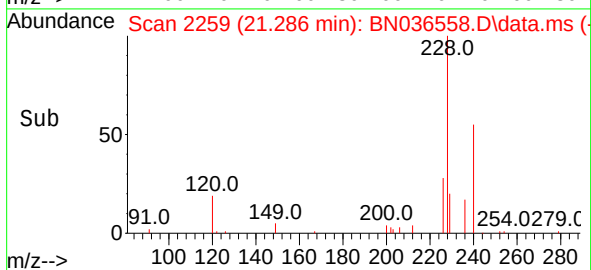
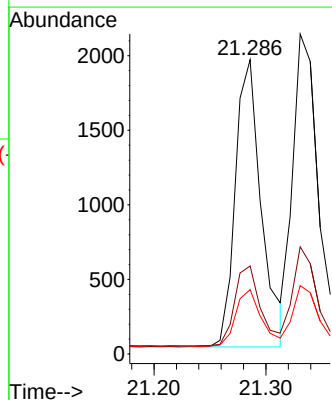
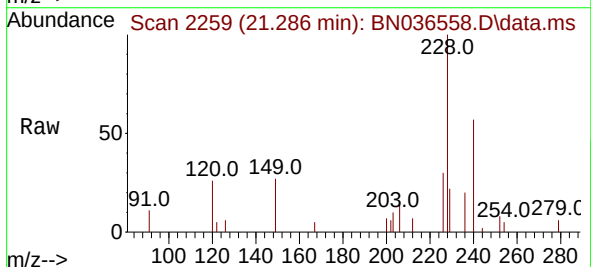
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

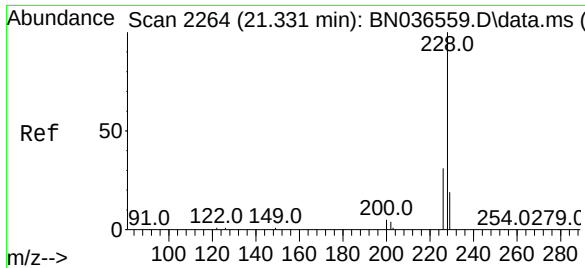
Tgt Ion:244	Resp:	2283
Ion Ratio	Lower	Upper
244	100	
212	12.9	9.6 14.4
122	18.3	13.9 20.9



#32
 Benzo(a)anthracene
 Concen: 0.189 ng
 RT: 21.286 min Scan# 2259
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Tgt Ion:228	Resp:	3111
Ion Ratio	Lower	Upper
228	100	
226	29.9	22.5 33.7
229	21.9	16.6 25.0

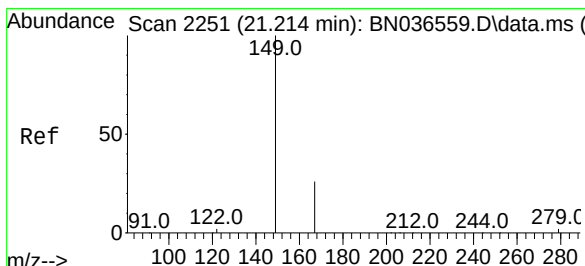
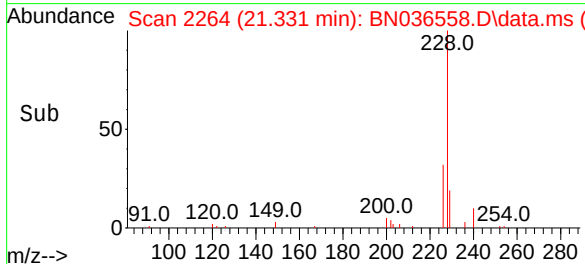
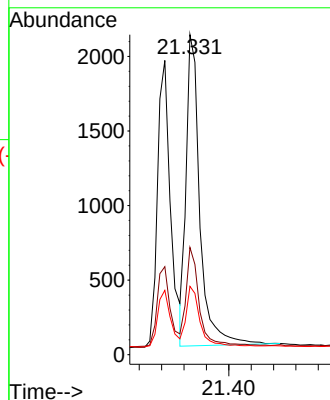
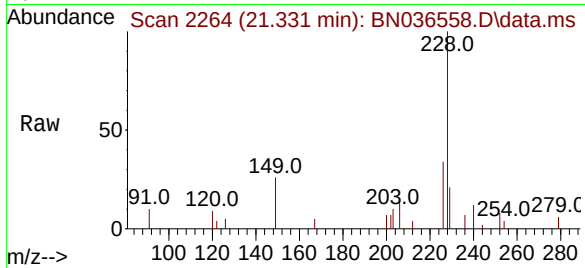




#33
 Chrysene
 Concen: 0.199 ng
 RT: 21.331 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

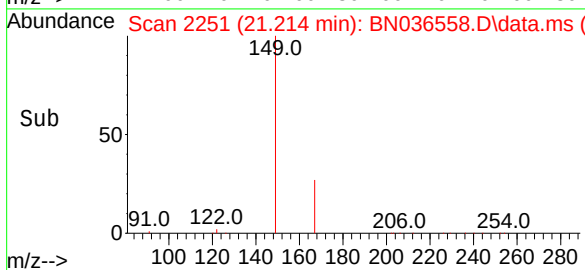
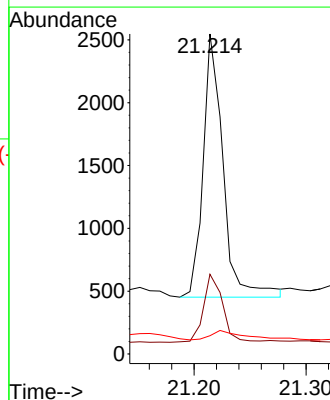
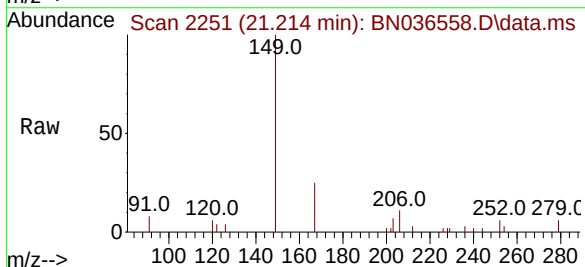
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

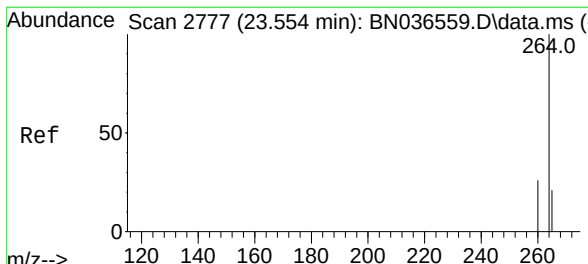
Tgt Ion:	228	Resp:	3568
Ion Ratio	Lower	Upper	
228	100		
226	33.5	25.3	37.9
229	21.4	15.8	23.8



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.222 ng
 RT: 21.214 min Scan# 2251
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Tgt Ion:	149	Resp:	2601
Ion Ratio	Lower	Upper	
149	100		
167	24.7	20.7	31.1
279	5.7	3.6	5.4#

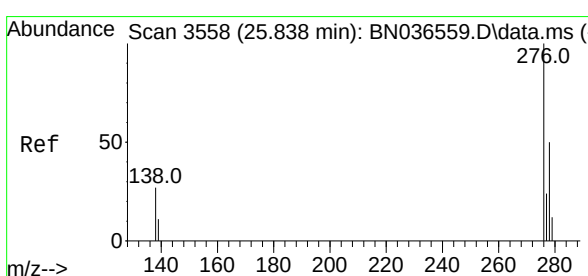
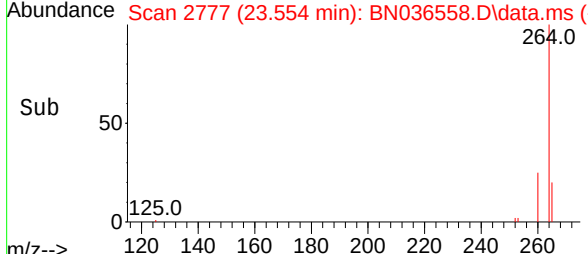
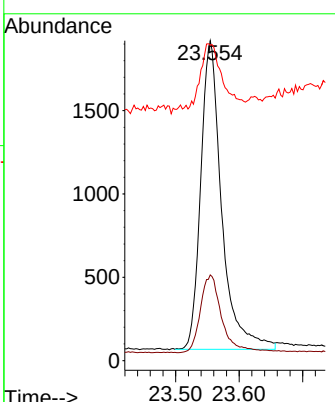
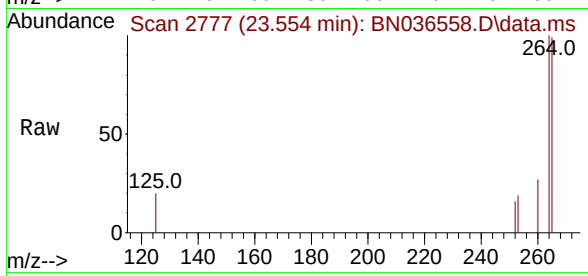




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.554 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

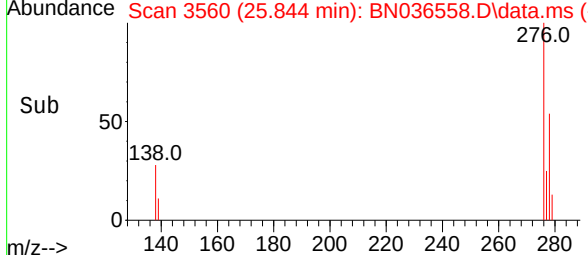
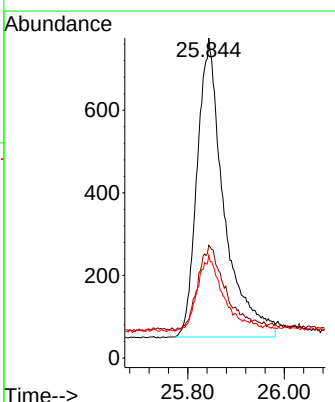
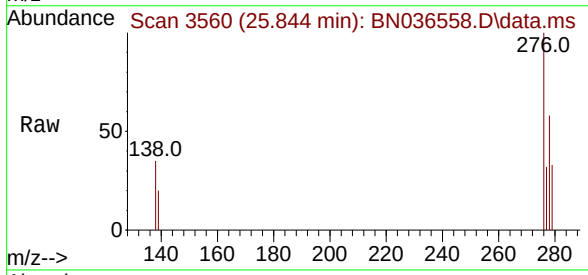
Instrument : BNA_N
 ClientSampleId : SSTDICC0.2

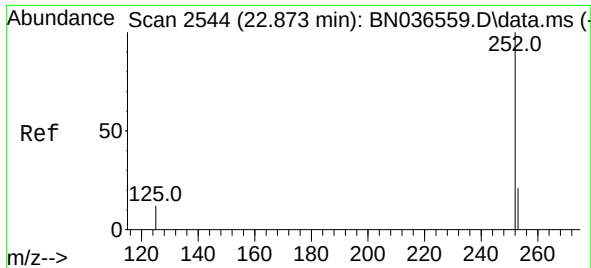
Tgt Ion:264	Resp:	4241
Ion Ratio	Lower	Upper
264	100	
260	26.8	22.6 33.8
265	98.5	88.1 132.1



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.182 ng
 RT: 25.844 min Scan# 3560
 Delta R.T. 0.006 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Tgt Ion:276	Resp:	2790
Ion Ratio	Lower	Upper
276	100	
138	29.1	23.4 35.2
277	23.4	20.0 30.0

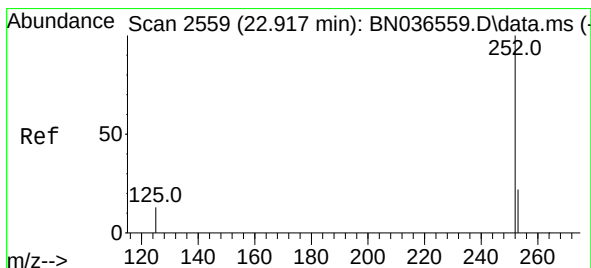
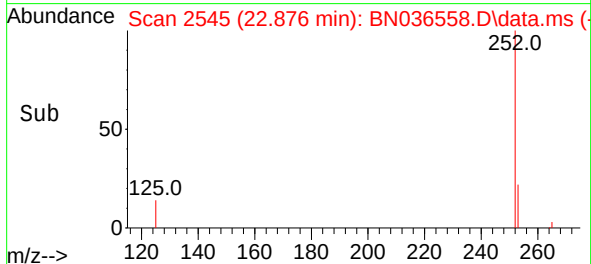
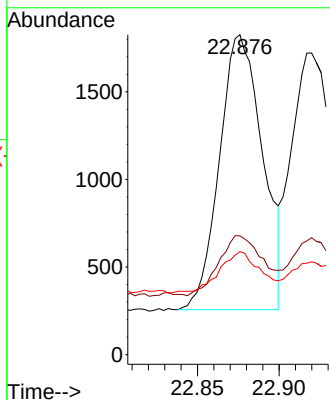
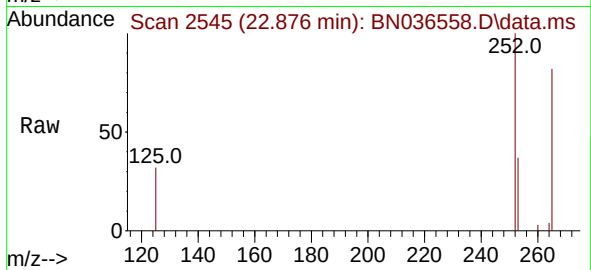




#37
Benzo(b)fluoranthene
Concen: 0.187 ng
RT: 22.876 min Scan# 2544
Delta R.T. 0.003 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

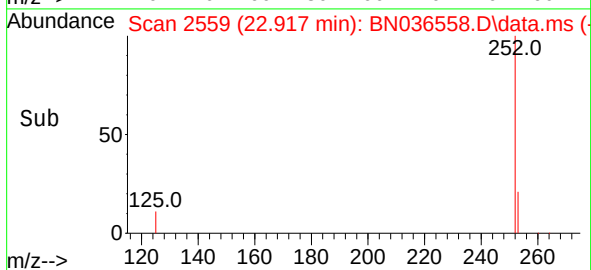
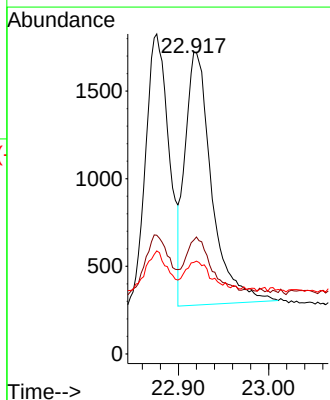
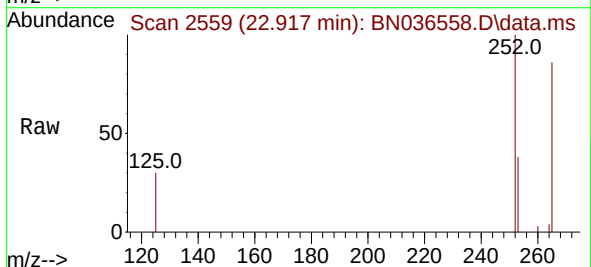
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

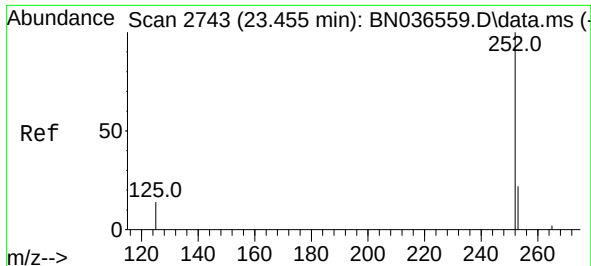
Tgt Ion:252 Resp: 2883
Ion Ratio Lower Upper
252 100
253 37.1 23.9 35.9#
125 32.2 17.4 26.2#



#38
Benzo(k)fluoranthene
Concen: 0.183 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036558.D
Acq: 10 Mar 2025 12:18

Tgt Ion:252 Resp: 2962
Ion Ratio Lower Upper
252 100
253 37.7 24.6 36.8#
125 30.3 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.188 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

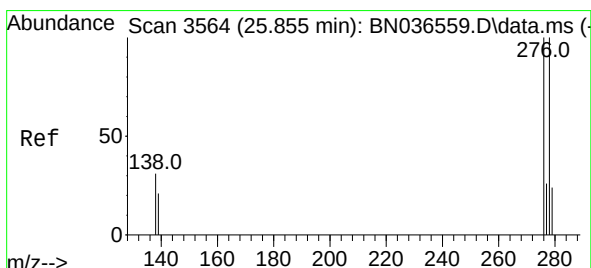
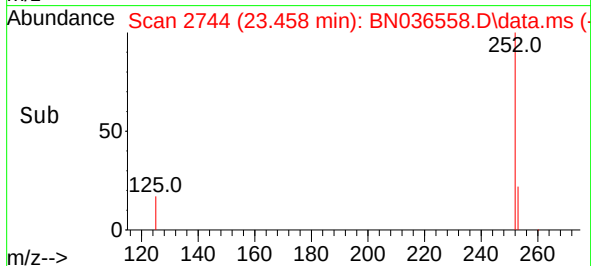
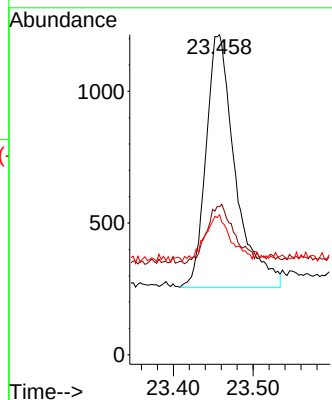
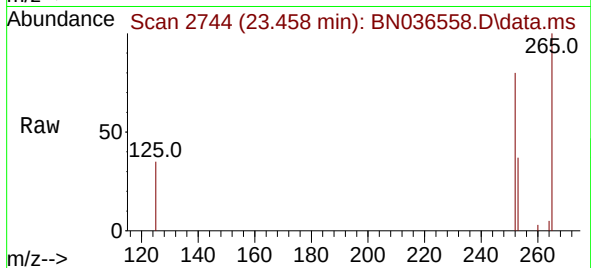
Tgt Ion:252 Resp: 2443

Ion Ratio Lower Upper

252 100

253 46.3 27.8 41.8#

125 43.7 22.7 34.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.175 ng

RT: 25.858 min Scan# 3565

Delta R.T. 0.003 min

Lab File: BN036558.D

Acq: 10 Mar 2025 12:18

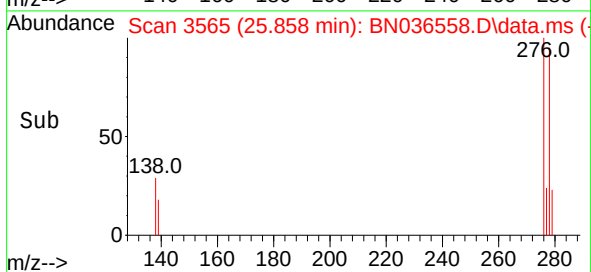
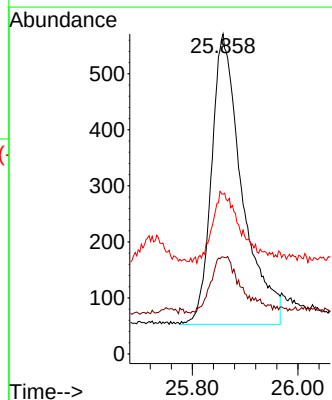
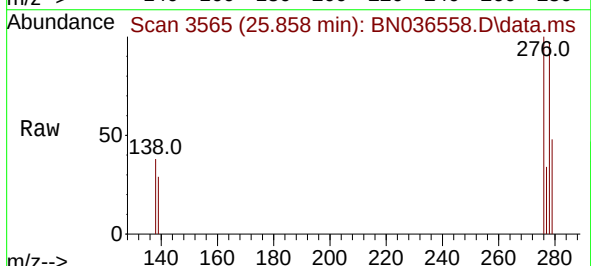
Tgt Ion:278 Resp: 2080

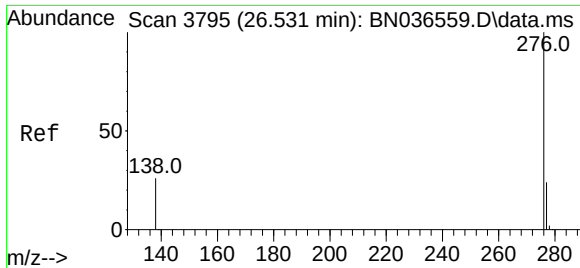
Ion Ratio Lower Upper

278 100

139 30.3 20.8 31.2

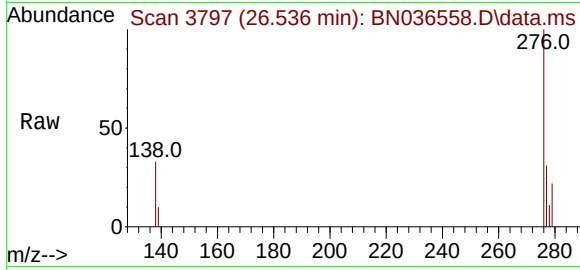
279 49.9 28.8 43.2#



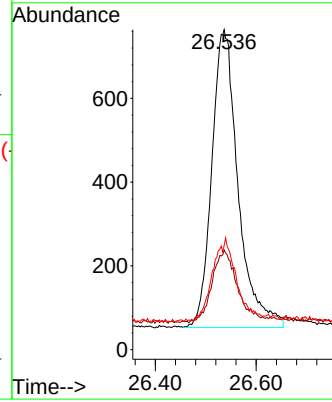
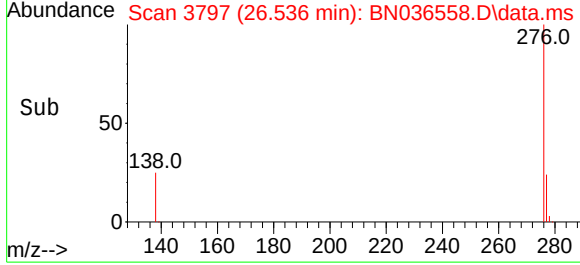


#41
 Benzo(g,h,i)perylene
 Concen: 0.189 ng
 RT: 26.536 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: BN036558.D
 Acq: 10 Mar 2025 12:18

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



Tgt Ion:	276	Resp:	2573
Ion Ratio	Lower	Upper	
276	100		
277	31.2	22.2	33.4
138	32.6	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
 Data File : BN036757.D
 Acq On : 28 Mar 2025 03:46
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Mar 28 05:36:56 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

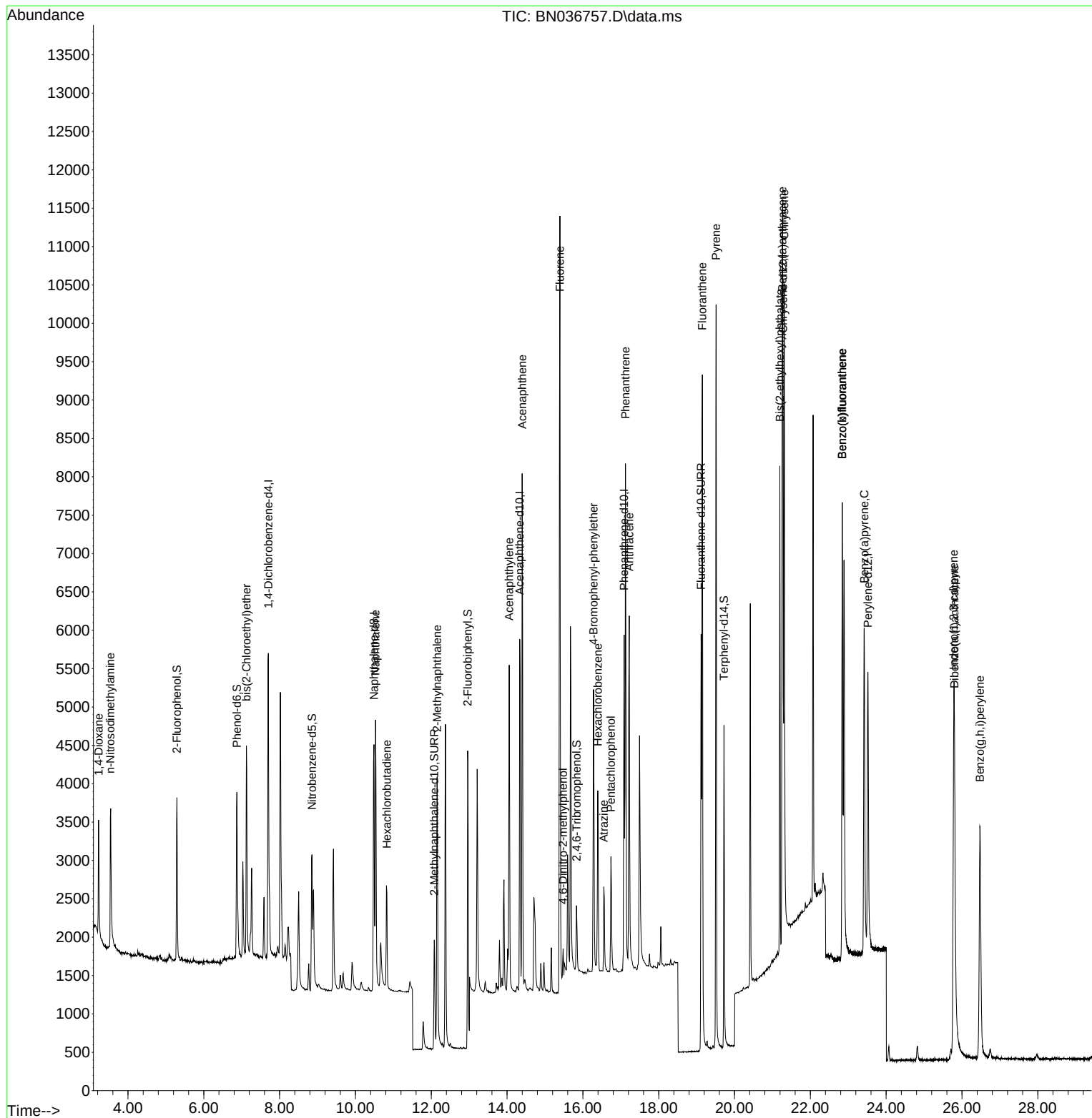
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.703	152	1974	0.400	ng	-0.02
7) Naphthalene-d8	10.488	136	4607	0.400	ng	-0.02
13) Acenaphthene-d10	14.334	164	2750	0.400	ng	-0.03
19) Phenanthrene-d10	17.087	188	5937	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	5680	0.400	ng	#-0.02
35) Perylene-d12	23.519	264	5140	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	1543	0.335	ng	-0.02
5) Phenol-d6	6.872	99	1947	0.343	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1705	0.340	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2347	0.342	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	507	0.406	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	5537	0.346	ng	-0.03
27) Fluoranthene-d10	19.118	212	6252	0.411	ng	-0.02
31) Terphenyl-d14	19.722	244	4254	0.313	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.225	88	873	0.399	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.536	42	1735	0.392	ng	95
6) bis(2-Chloroethyl)ether	7.125	93	2072	0.353	ng	98
9) Naphthalene	10.530	128	4865	0.359	ng	99
10) Hexachlorobutadiene	10.829	225	1140	0.357	ng	# 99
12) 2-Methylnaphthalene	12.157	142	3049	0.354	ng	98
16) Acenaphthylene	14.056	152	4680	0.361	ng	99
17) Acenaphthene	14.398	154	3124	0.368	ng	100
18) Fluorene	15.393	166	4263	0.371	ng	99
20) 4,6-Dinitro-2-methylph...	15.478	198	472	0.457	ng	83
21) 4-Bromophenyl-phenylether	16.280	248	1382	0.372	ng	91
22) Hexachlorobenzene	16.391	284	1636	0.364	ng	97
23) Atrazine	16.553	200	1154	0.387	ng	97
24) Pentachlorophenol	16.739	266	868	0.424	ng	97
25) Phenanthrene	17.124	178	6866	0.386	ng	100
26) Anthracene	17.223	178	6014	0.374	ng	99
28) Fluoranthene	19.150	202	8476	0.424	ng	99
30) Pyrene	19.513	202	9024	0.325	ng	100
32) Benzo(a)anthracene	21.259	228	7146	0.362	ng	99
33) Chrysene	21.313	228	8272	0.383	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	5431	0.386	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.782	276	7314	0.394	ng	95
37) Benzo(b)fluoranthene	22.841	252	7293	0.390	ng	95
38) Benzo(k)fluoranthene	22.841	252	7293	0.372	ng	94
39) Benzo(a)pyrene	23.420	252	6291	0.399	ng	95
40) Dibenzo(a,h)anthracene	25.803	278	5522	0.382	ng	91
41) Benzo(g,h,i)perylene	26.475	276	6376	0.386	ng	94

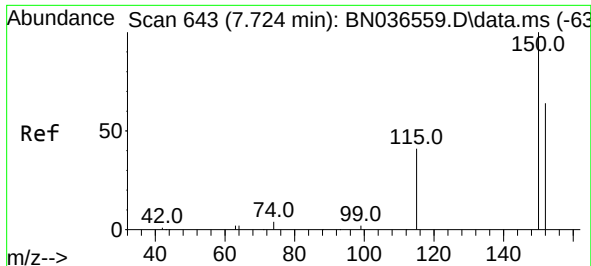
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036757.D
Acq On : 28 Mar 2025 03:46
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

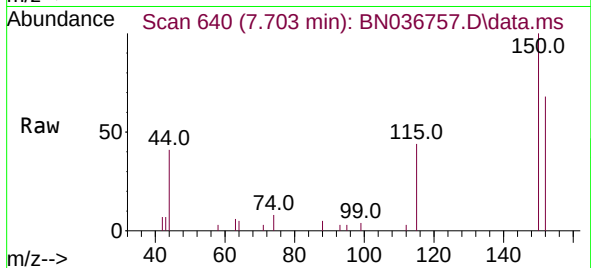
Quant Time: Mar 28 05:36:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



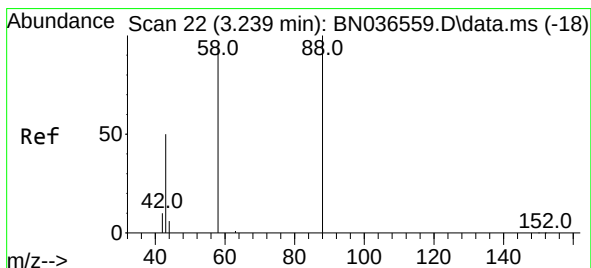
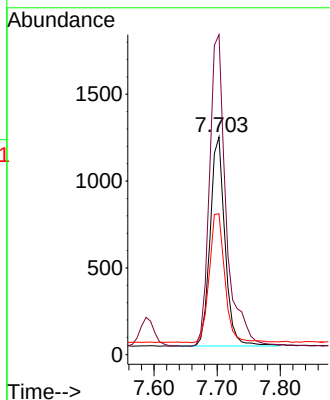
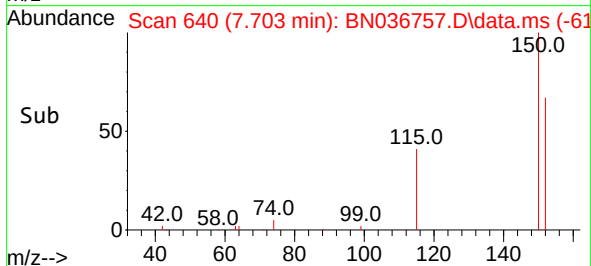


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.703 min Scan# 64
 Delta R.T. -0.021 min
 Lab File: BN036757.D
 Acq: 28 Mar 2025 03:46

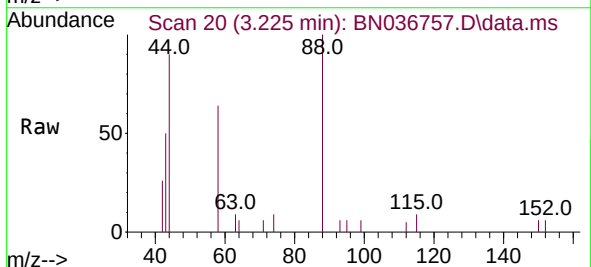
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4



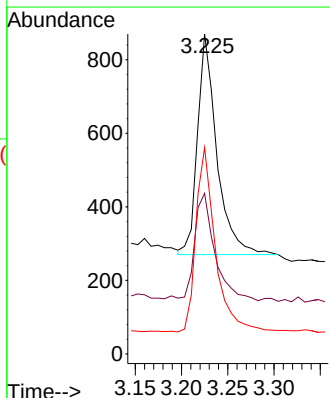
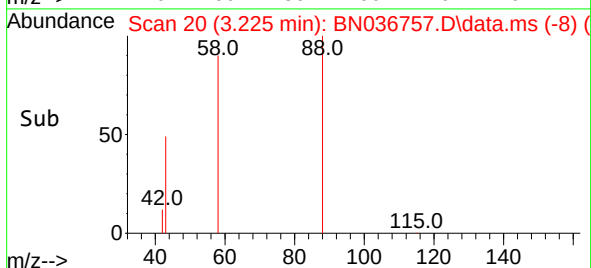
Tgt Ion:152 Resp: 1974
 Ion Ratio Lower Upper
 152 100
 150 147.0 123.7 185.5
 115 64.8 54.3 81.5

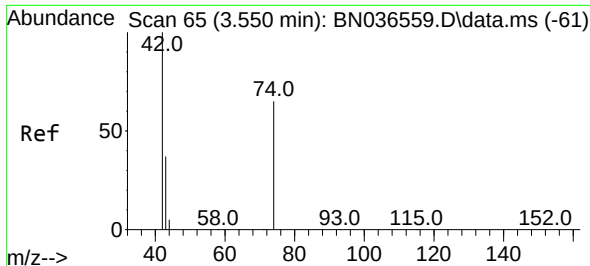


#2
 1,4-Dioxane
 Concen: 0.399 ng
 RT: 3.225 min Scan# 20
 Delta R.T. -0.014 min
 Lab File: BN036757.D
 Acq: 28 Mar 2025 03:46



Tgt Ion: 88 Resp: 873
 Ion Ratio Lower Upper
 88 100
 43 51.8 37.8 56.8
 58 83.6 67.4 101.2

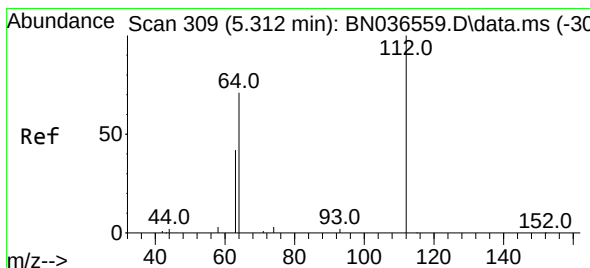
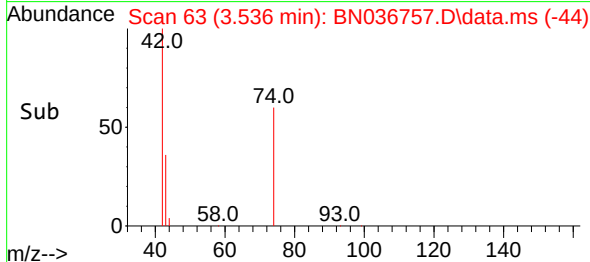
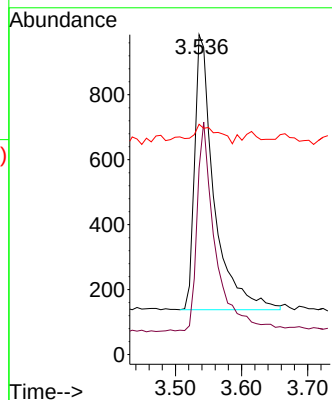
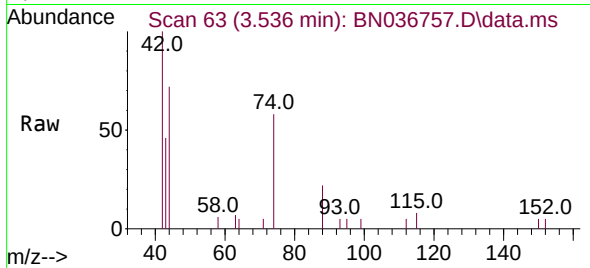




#3
n-Nitrosodimethylamine
Concen: 0.392 ng
RT: 3.536 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

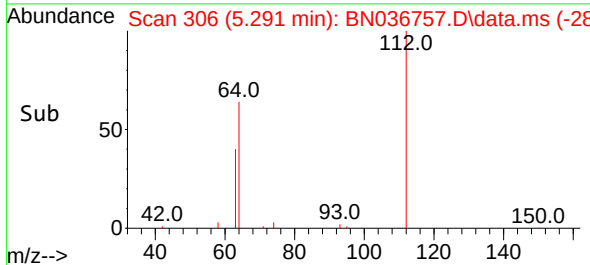
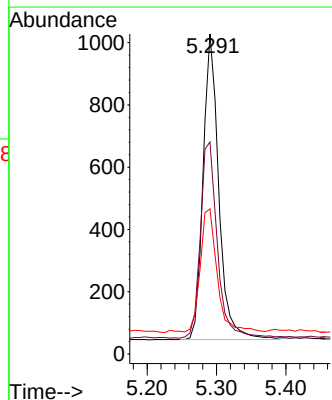
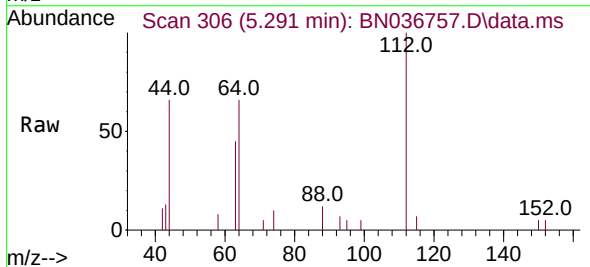
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

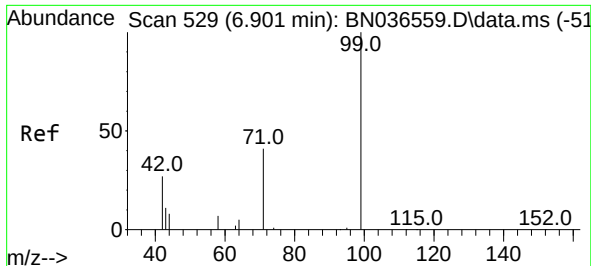
Tgt Ion: 42 Resp: 1735
Ion Ratio Lower Upper
42 100
74 70.8 60.6 90.8
44 8.1 6.3 9.5



#4
2-Fluorophenol
Concen: 0.335 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.022 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 112 Resp: 1543
Ion Ratio Lower Upper
112 100
64 69.8 53.1 79.7
63 43.0 31.8 47.8

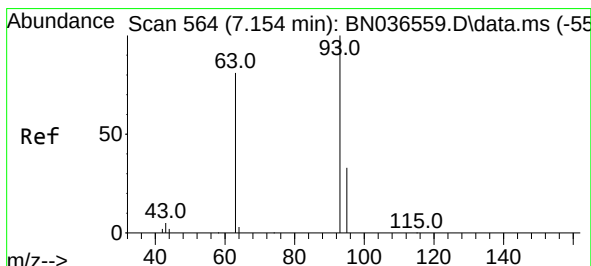
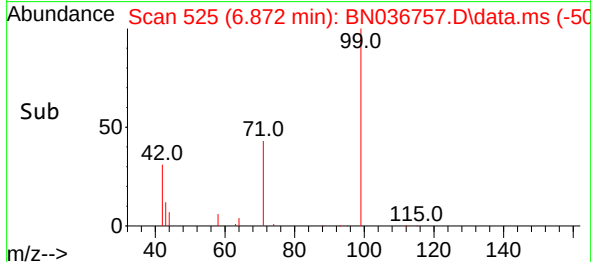
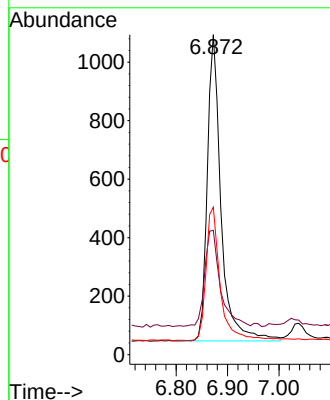
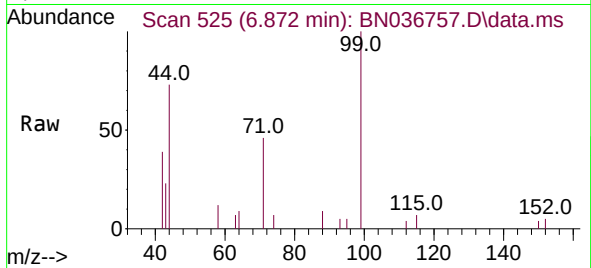




#5
Phenol-d6
Concen: 0.343 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

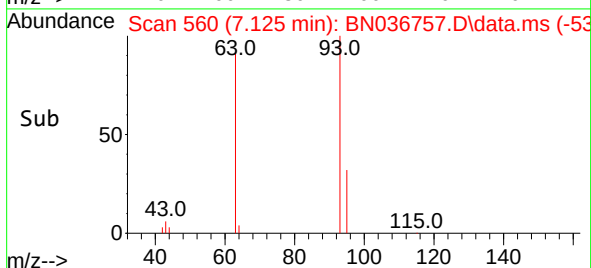
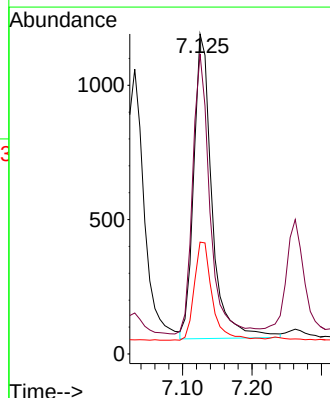
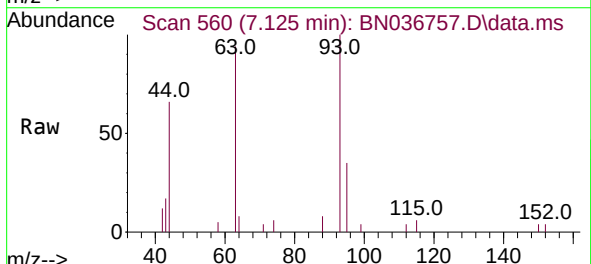
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

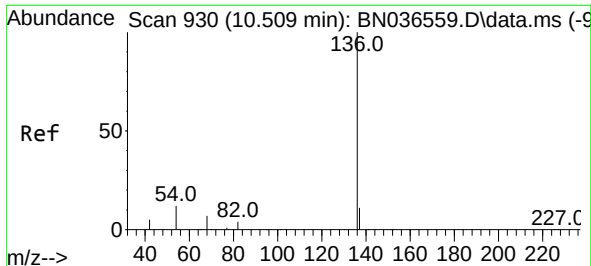
Tgt Ion:	99	Resp:	1947
Ion	Ratio	Lower	Upper
99	100		
42	35.4	26.5	39.7
71	46.1	34.1	51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.353 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:	93	Resp:	2072
Ion	Ratio	Lower	Upper
93	100		
63	86.9	67.7	101.5
95	31.7	25.6	38.4

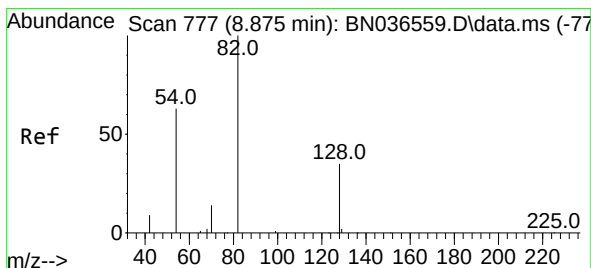
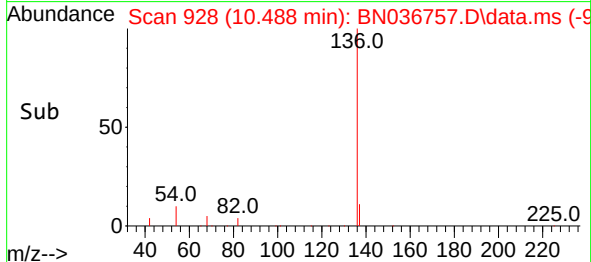
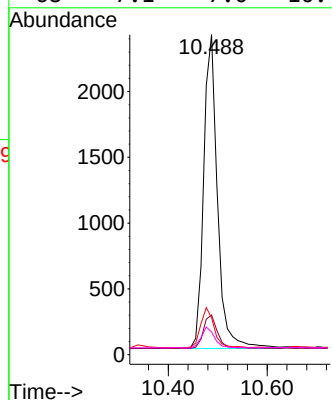
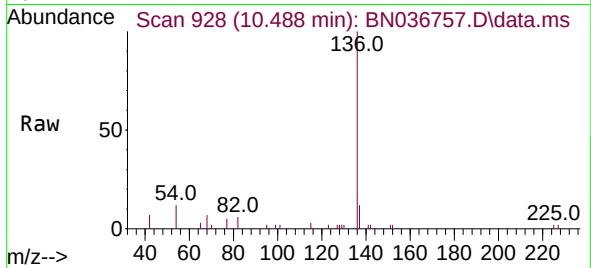




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

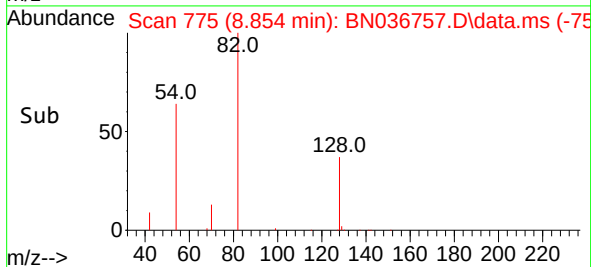
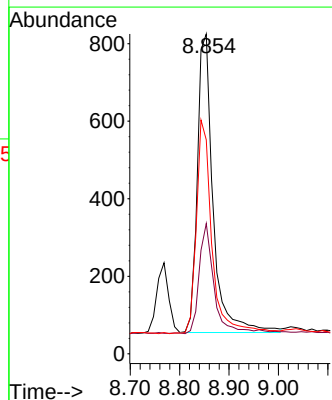
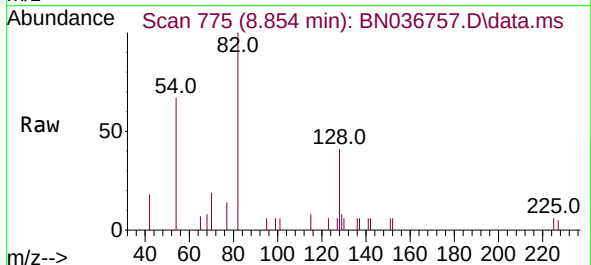
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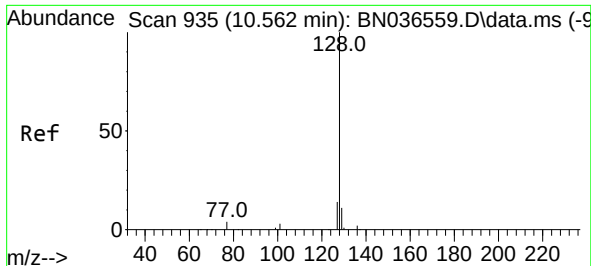
Tgt Ion:136	Resp:	4607
Ion	Ratio	Lower Upper
136	100	
137	12.4	10.3 15.5
54	11.6	11.5 17.3
68	7.1	7.0 10.4



#8
Nitrobenzene-d5
Concen: 0.340 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion: 82	Resp:	1705
Ion	Ratio	Lower Upper
82	100	
128	40.7	30.6 45.8
54	66.9	52.2 78.4

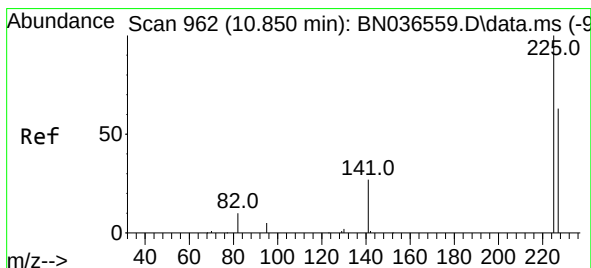
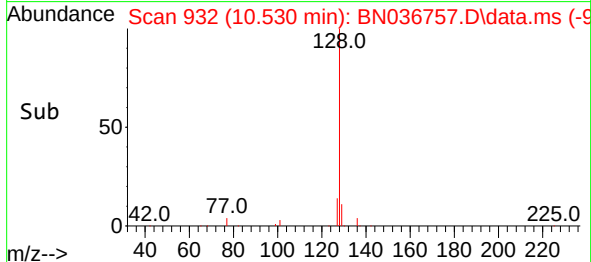
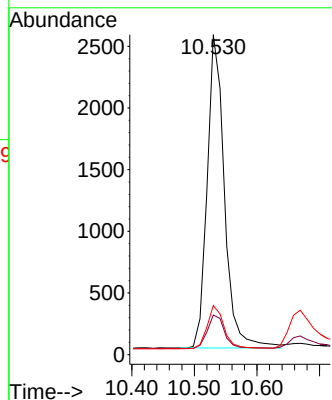
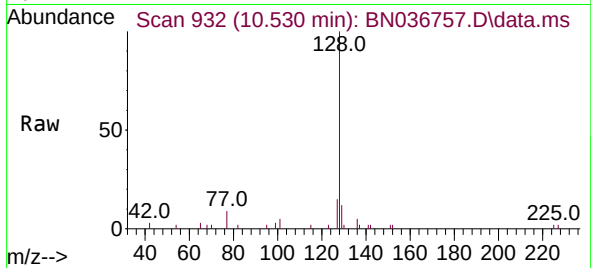




#9
Naphthalene
Concen: 0.359 ng
RT: 10.530 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

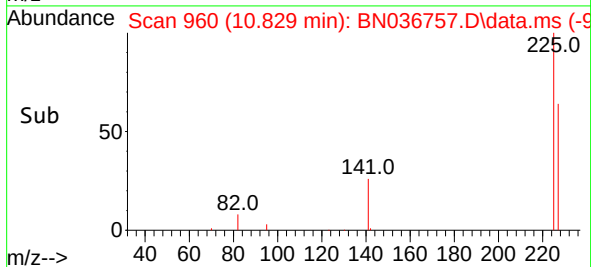
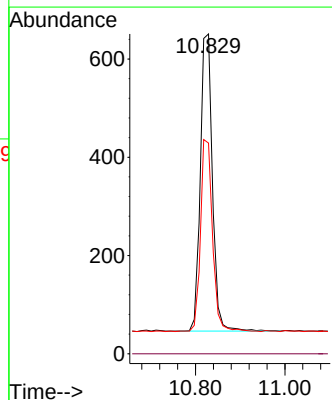
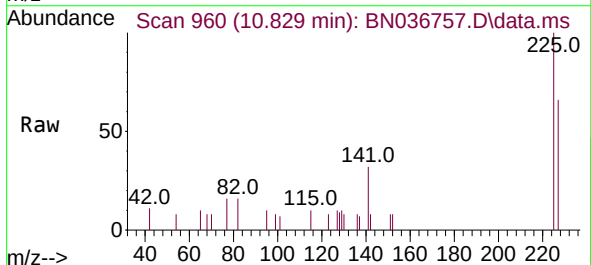
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

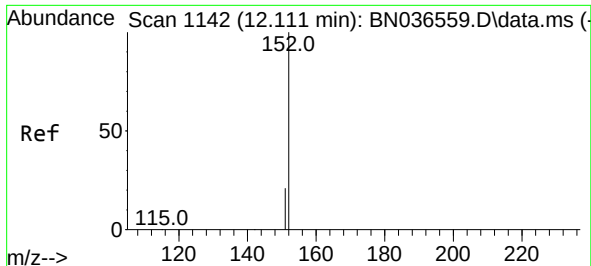
Tgt Ion:	128	Resp:	4865
Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	15.3	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.357 ng
RT: 10.829 min Scan# 960
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:	225	Resp:	1140
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.8	77.8

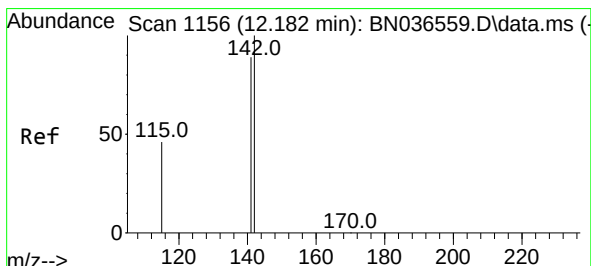
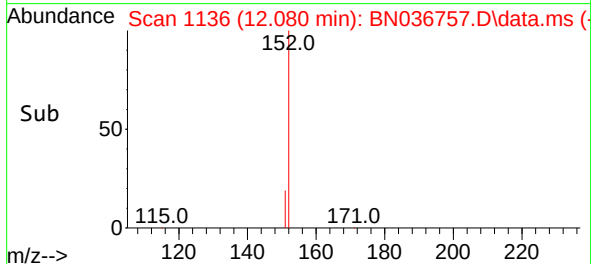
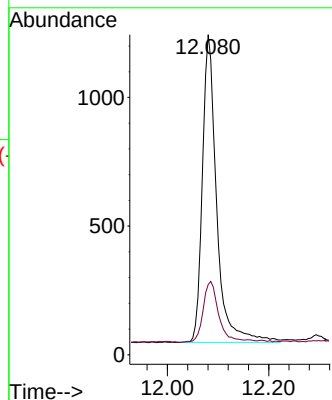
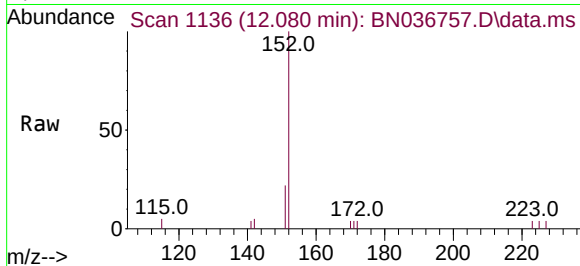




#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 12.080 min Scan# 1142
Delta R.T. -0.030 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

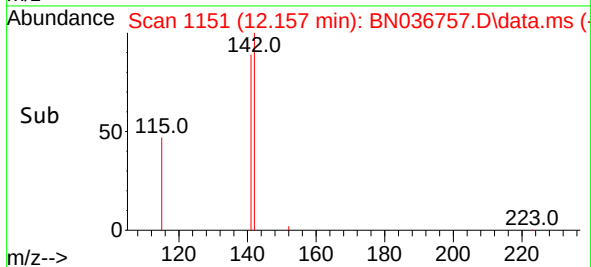
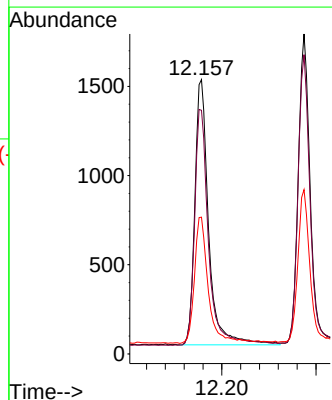
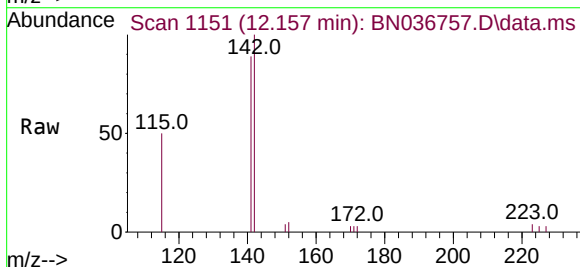
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ClientSampleId :
SSTDCCC0.4

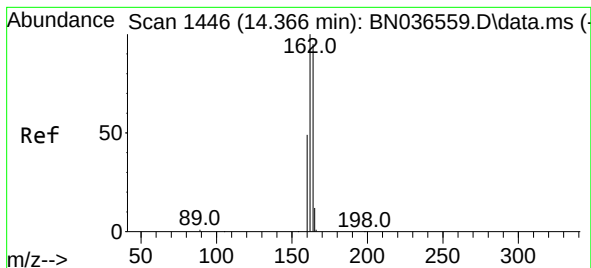
Tgt Ion:152 Resp: 2347
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:142 Resp: 3049
Ion Ratio Lower Upper
142 100
141 88.8 71.7 107.5
115 49.9 38.3 57.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.334 min Scan# 1443

Delta R.T. -0.032 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

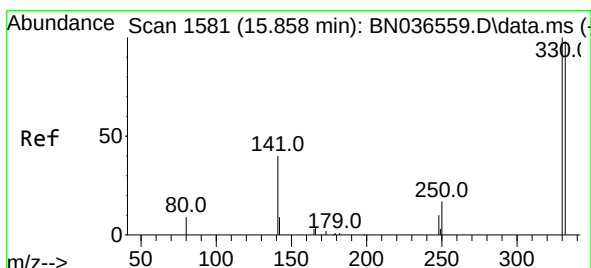
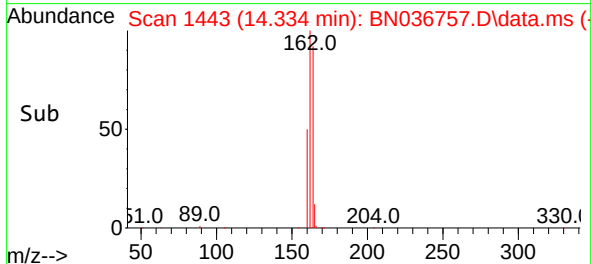
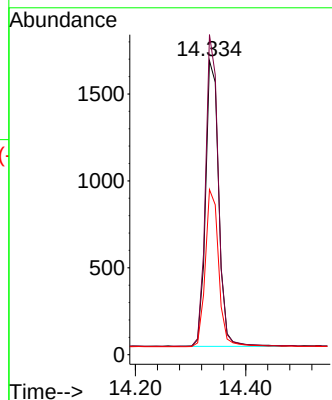
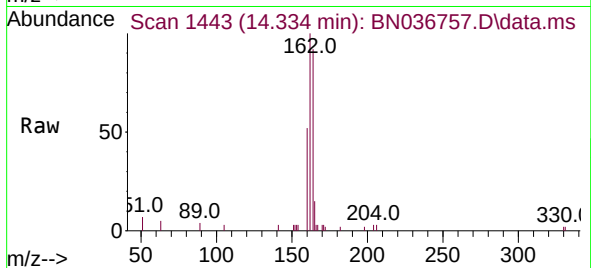
Tgt Ion:164 Resp: 2750

Ion Ratio Lower Upper

164 100

162 108.9 84.2 126.2

160 56.2 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.406 ng

RT: 15.833 min Scan# 1579

Delta R.T. -0.025 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

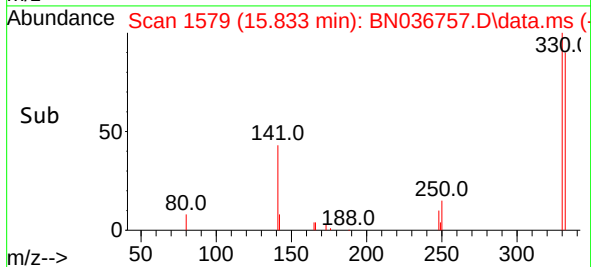
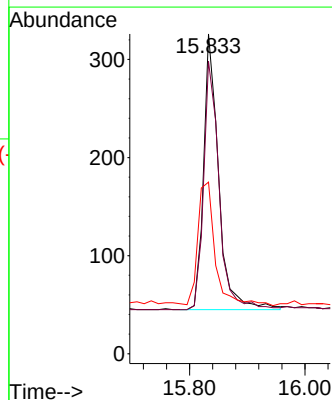
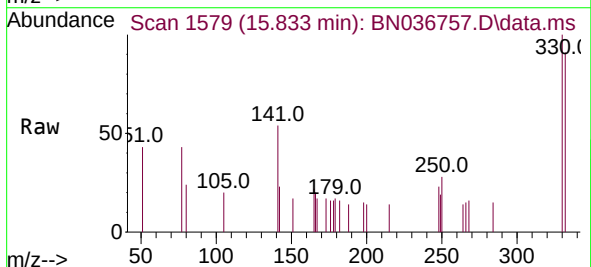
Tgt Ion:330 Resp: 507

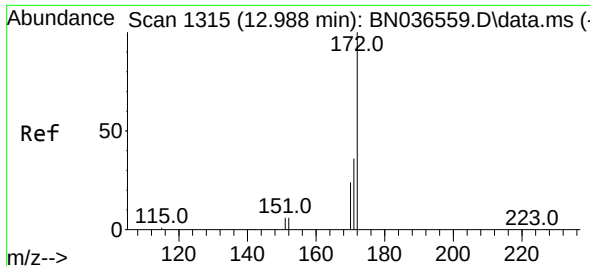
Ion Ratio Lower Upper

330 100

332 92.9 75.2 112.8

141 52.3 43.4 65.2

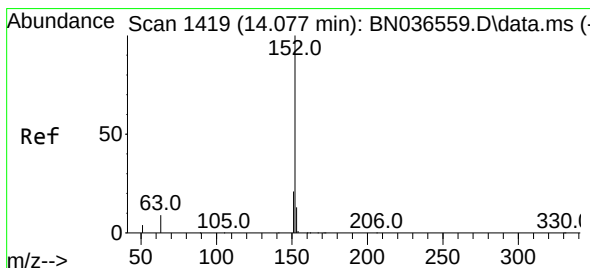
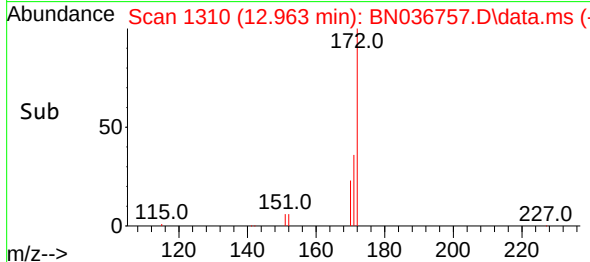
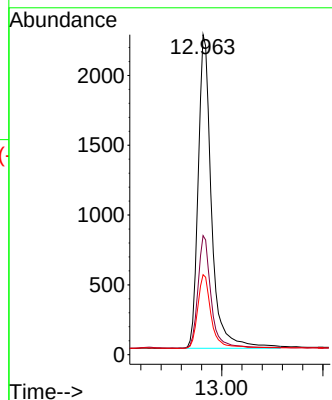
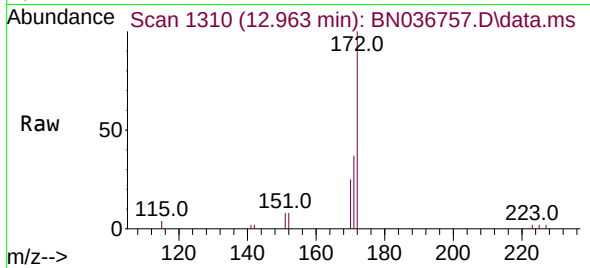




#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.963 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

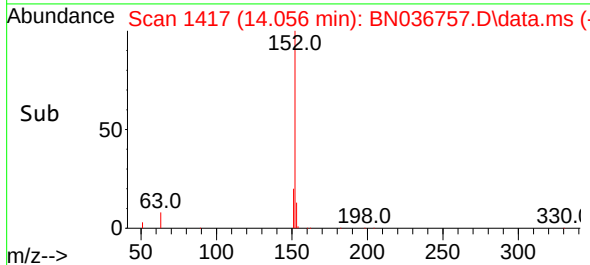
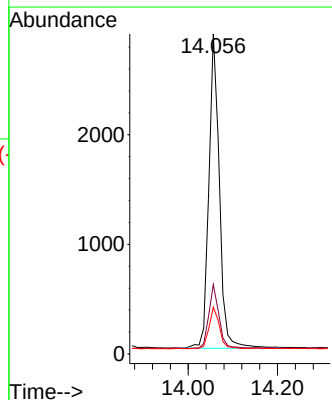
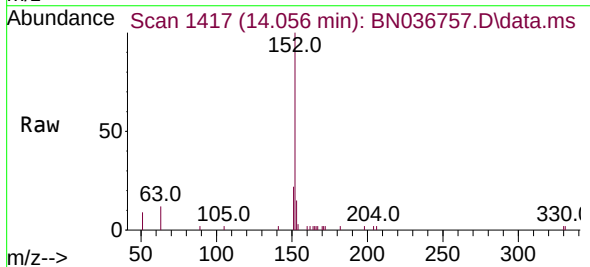
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

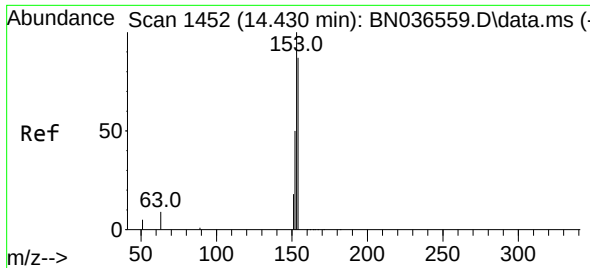
Tgt Ion:172	Resp:	5537
Ion Ratio	Lower	Upper
172	100	
171	37.2	29.5 44.3
170	25.0	20.2 30.4



#16
Acenaphthylene
Concen: 0.361 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:152	Resp:	4680
Ion Ratio	Lower	Upper
152	100	
151	19.7	16.2 24.4
153	13.4	10.6 15.8

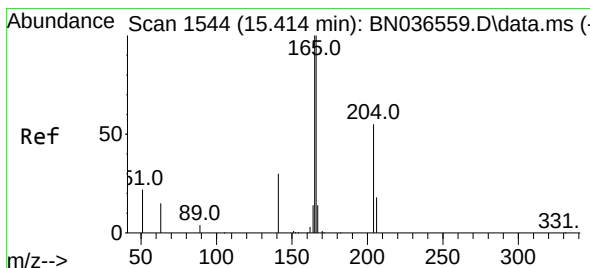
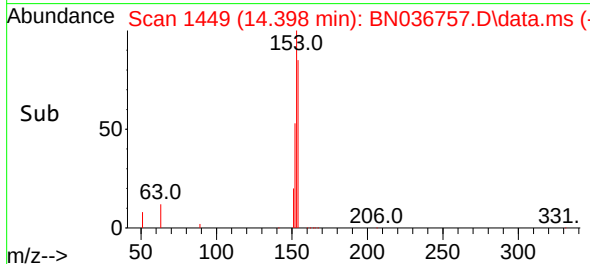
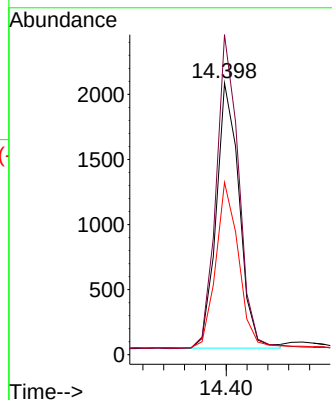
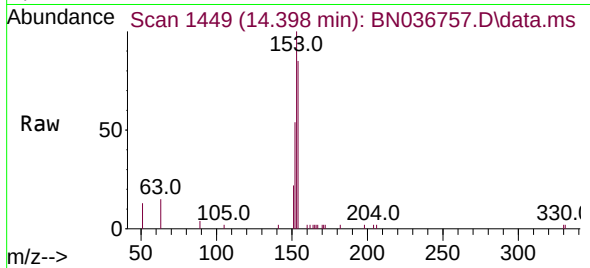




#17
Acenaphthene
Concen: 0.368 ng
RT: 14.398 min Scan# 14
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

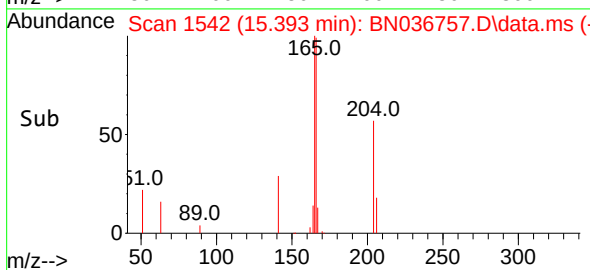
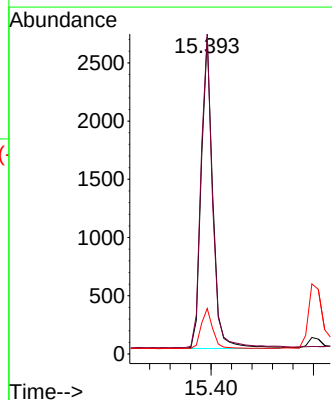
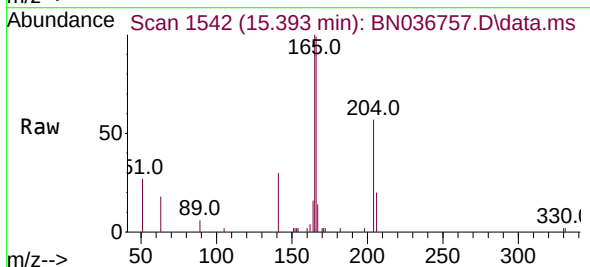
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

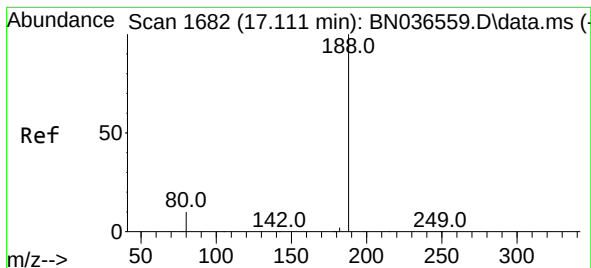
Tgt Ion:154 Resp: 3124
Ion Ratio Lower Upper
154 100
153 117.8 94.1 141.1
152 62.6 49.8 74.6



#18
Fluorene
Concen: 0.371 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:166 Resp: 4263
Ion Ratio Lower Upper
166 100
165 100.3 79.8 119.8
167 12.7 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. -0.025 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

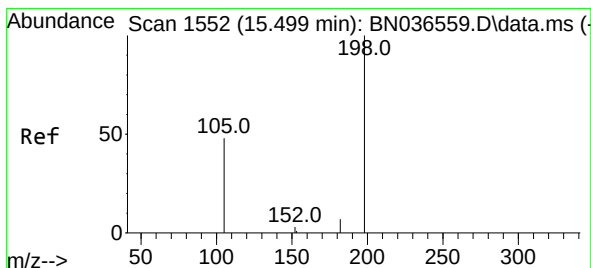
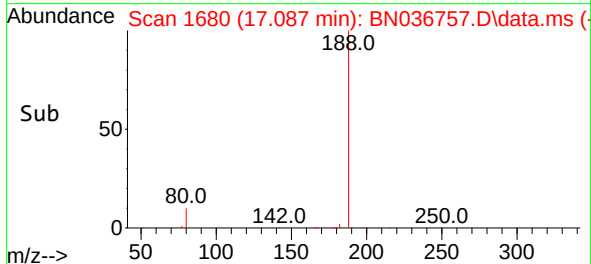
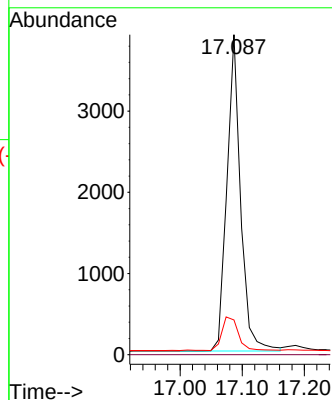
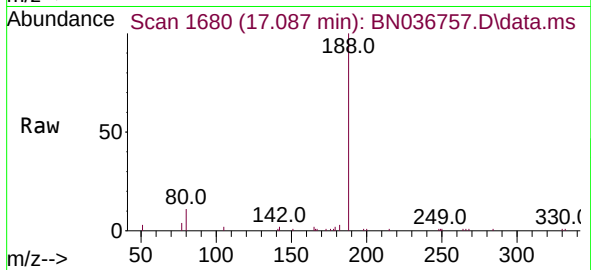
Tgt Ion:188 Resp: 5937

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.8 8.8 13.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.457 ng

RT: 15.478 min Scan# 1550

Delta R.T. -0.021 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

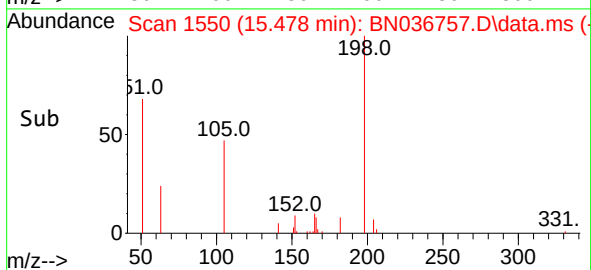
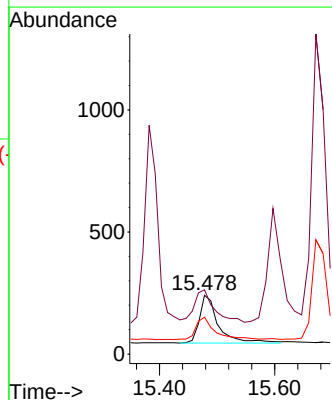
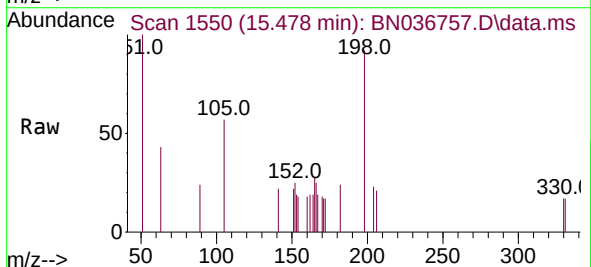
Tgt Ion:198 Resp: 472

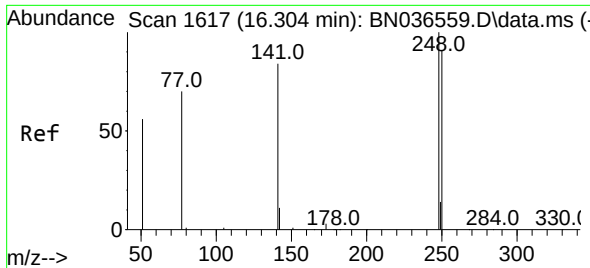
Ion Ratio Lower Upper

198 100

51 109.1 107.9 161.9

105 62.7 56.2 84.2

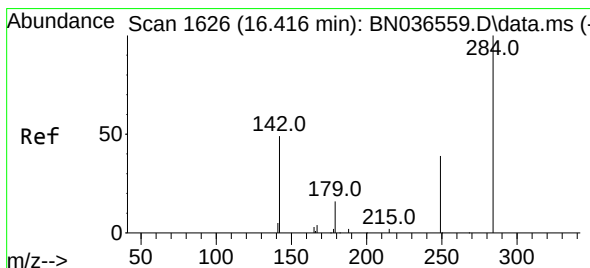
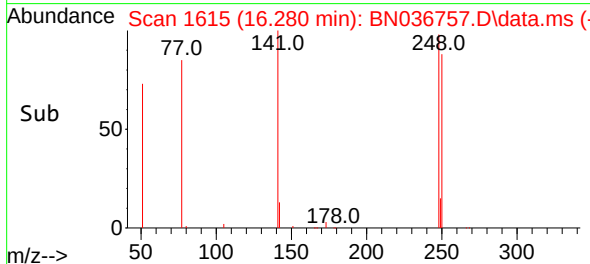
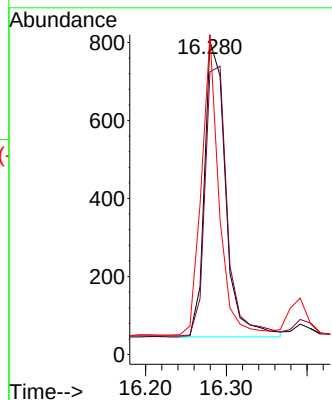
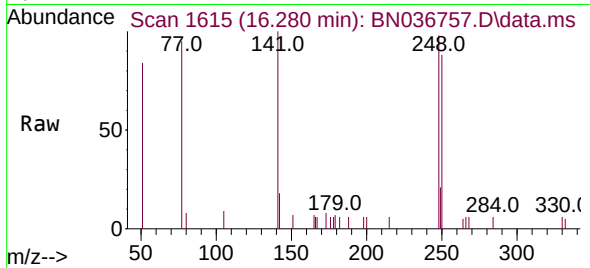




#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

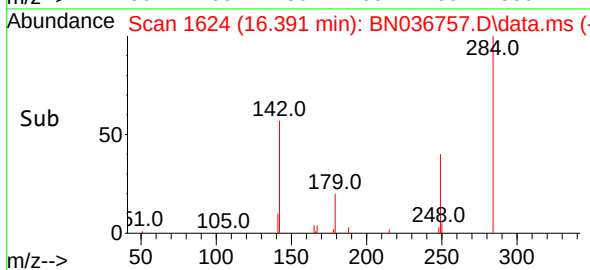
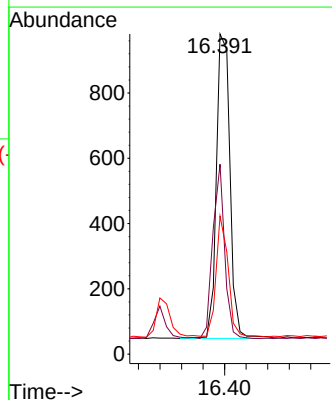
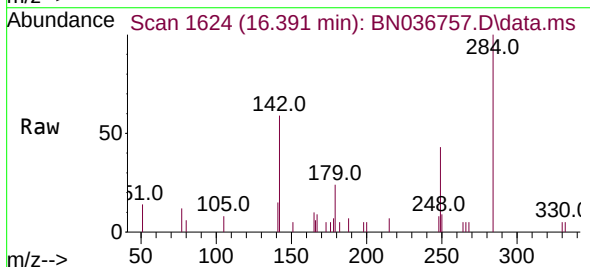
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

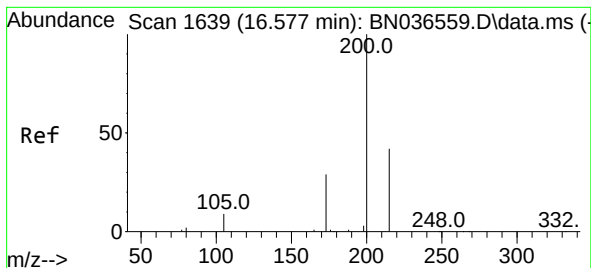
Tgt Ion:248	Resp:	1382
Ion Ratio	Lower	Upper
248	100	
250	90.2	73.0 109.6
141	102.0	68.6 103.0



#22
Hexachlorobenzene
Concen: 0.364 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:284	Resp:	1636
Ion Ratio	Lower	Upper
284	100	
142	49.6	37.0 55.4
249	35.2	28.1 42.1





#23

Atrazine

Concen: 0.387 ng

RT: 16.553 min Scan# 1

Delta R.T. -0.025 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

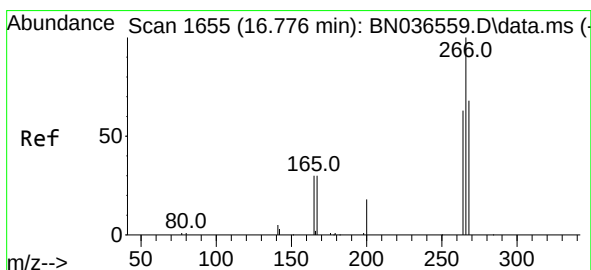
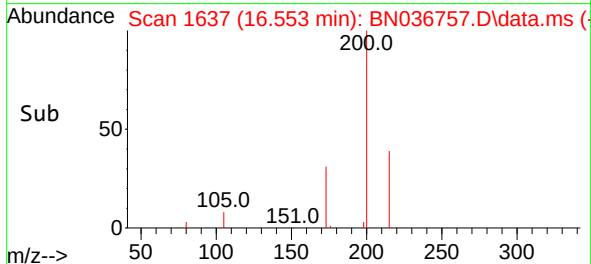
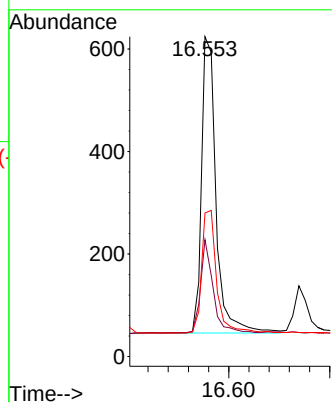
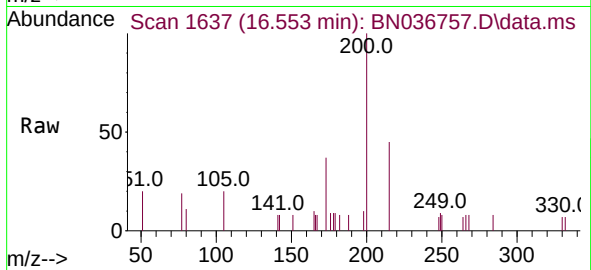
Tgt Ion:200 Resp: 1154

Ion Ratio Lower Upper

200 100

173 36.5 27.3 40.9

215 44.9 36.8 55.2



#24

Pentachlorophenol

Concen: 0.424 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.037 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

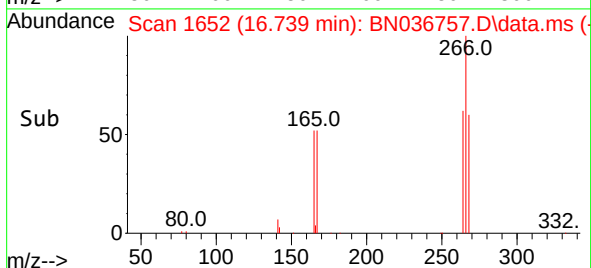
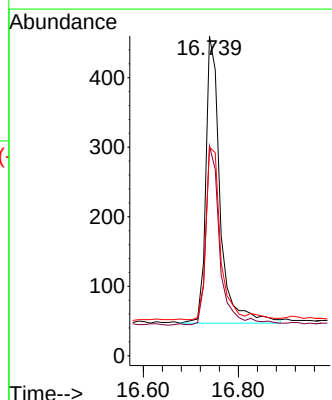
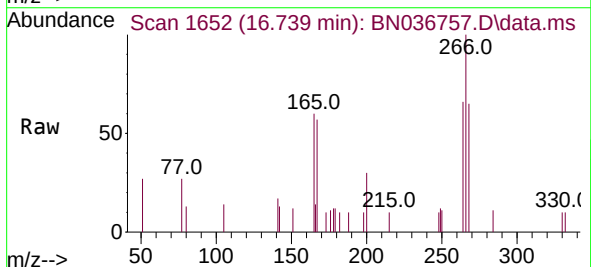
Tgt Ion:266 Resp: 868

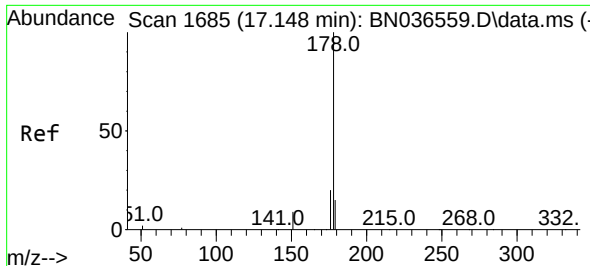
Ion Ratio Lower Upper

266 100

264 62.2 49.6 74.4

268 59.4 50.9 76.3

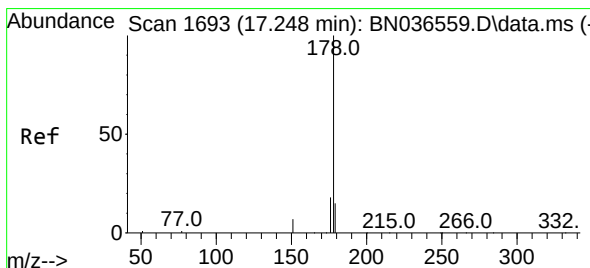
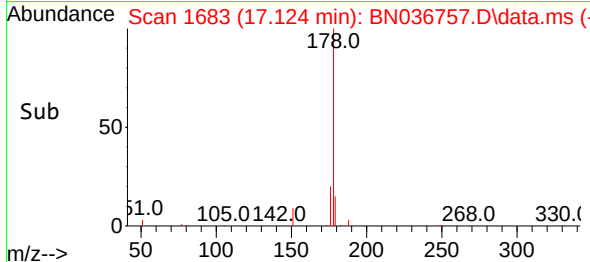
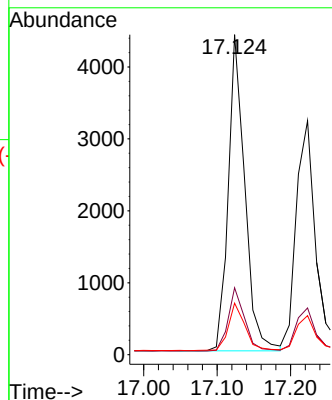
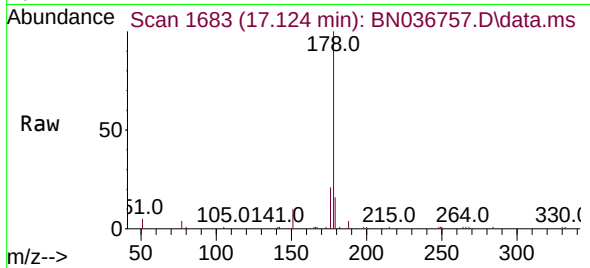




#25
Phenanthrene
Concen: 0.386 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

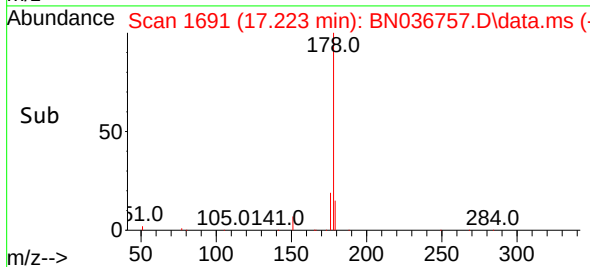
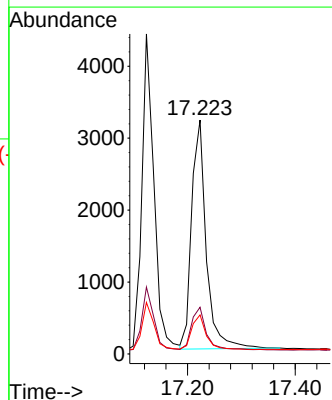
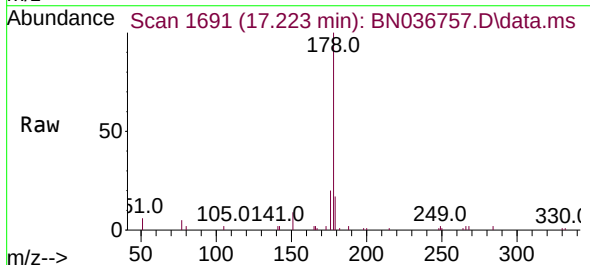
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

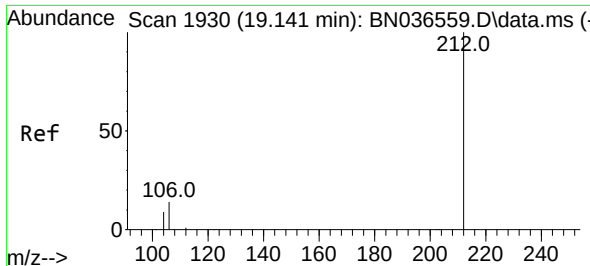
Tgt Ion:178 Resp: 6866
Ion Ratio Lower Upper
178 100
176 19.7 15.9 23.9
179 15.3 12.2 18.4



#26
Anthracene
Concen: 0.374 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:178 Resp: 6014
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.0 12.6 18.8

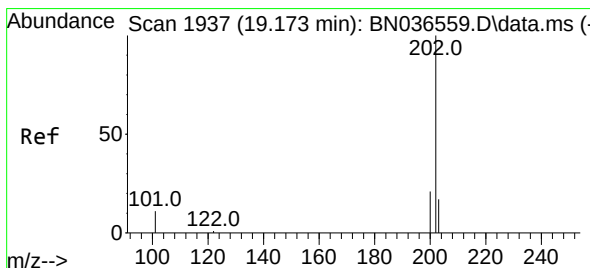
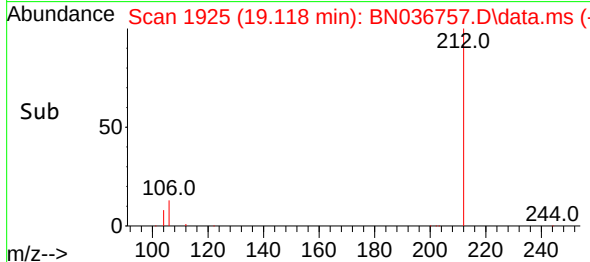
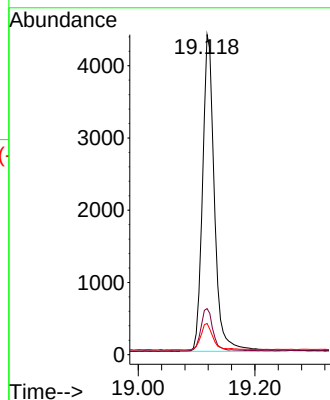
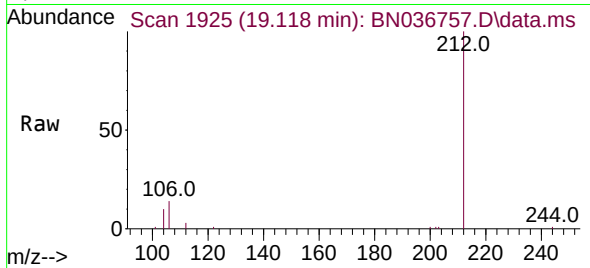




#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 19.118 min Scan# 1918
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

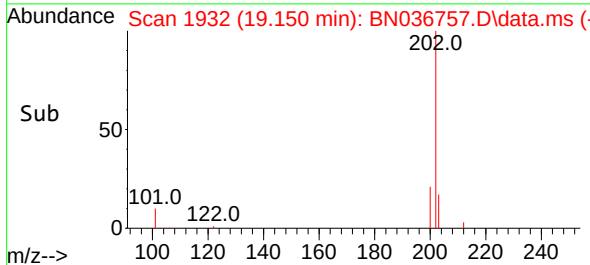
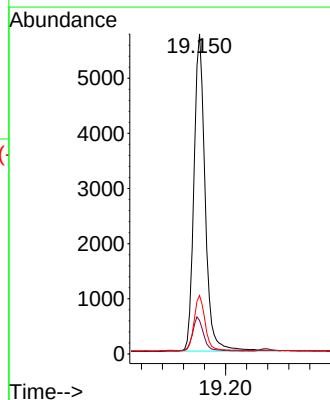
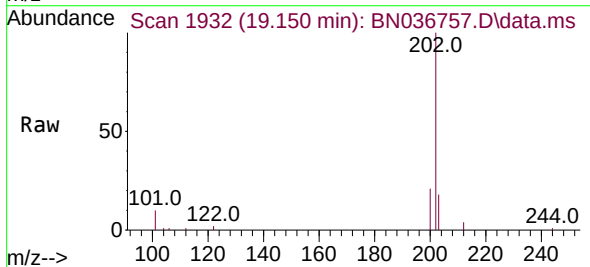
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

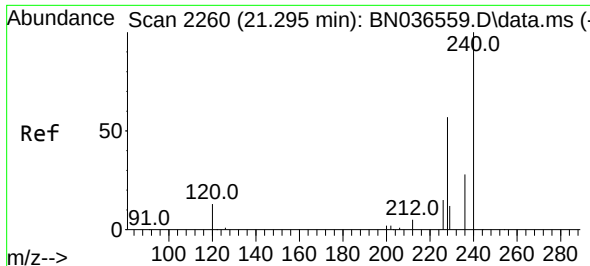
Tgt Ion:212 Resp: 6252
Ion Ratio Lower Upper
212 100
106 13.6 11.8 17.6
104 8.6 7.3 10.9



#28
Fluoranthene
Concen: 0.424 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:202 Resp: 8476
Ion Ratio Lower Upper
202 100
101 11.0 9.4 14.0
203 17.2 13.5 20.3

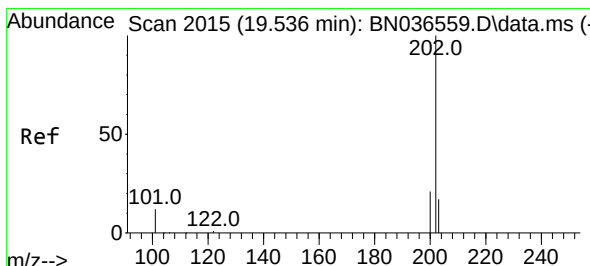
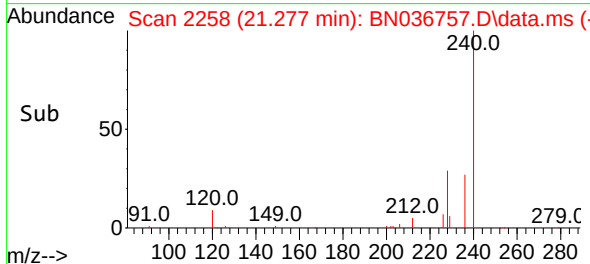
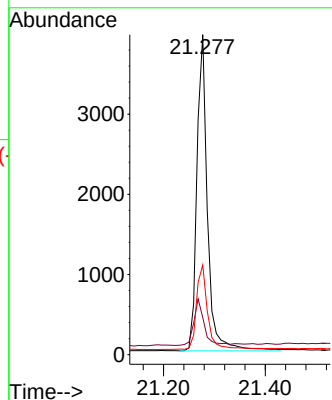
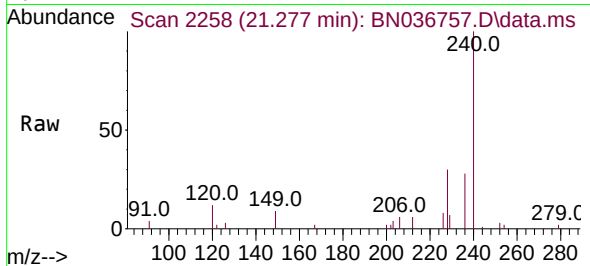




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

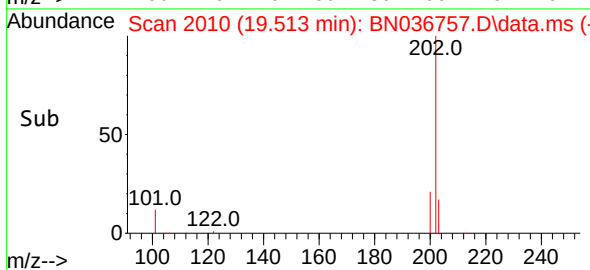
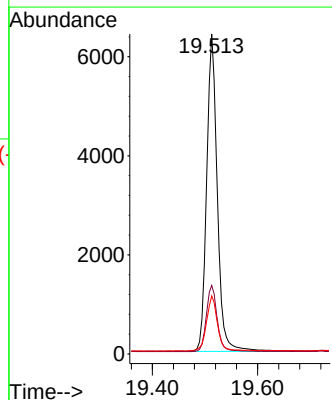
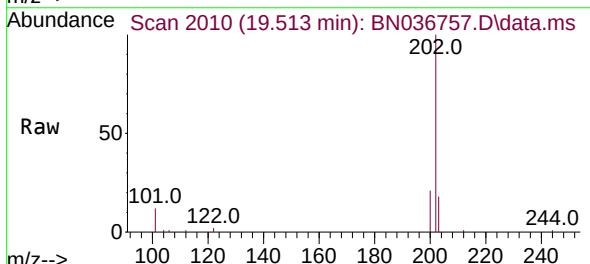
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

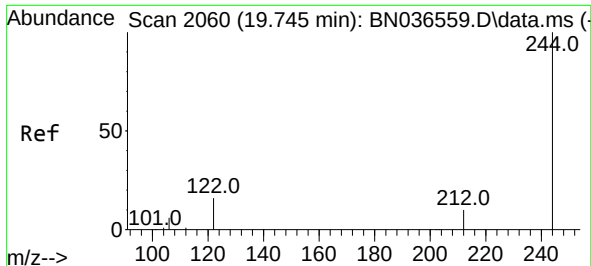
Tgt Ion:240 Resp: 5680
Ion Ratio Lower Upper
240 100
120 11.6 14.6 22.0#
236 28.0 24.1 36.1



#30
Pyrene
Concen: 0.325 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

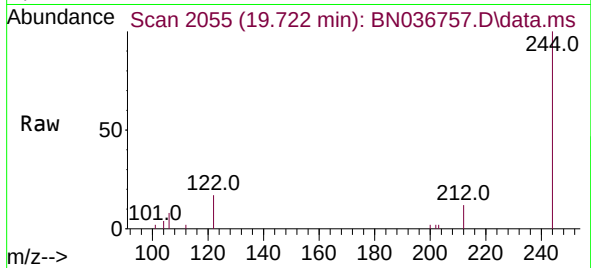
Tgt Ion:202 Resp: 9024
Ion Ratio Lower Upper
202 100
200 21.2 17.1 25.7
203 17.5 14.1 21.1



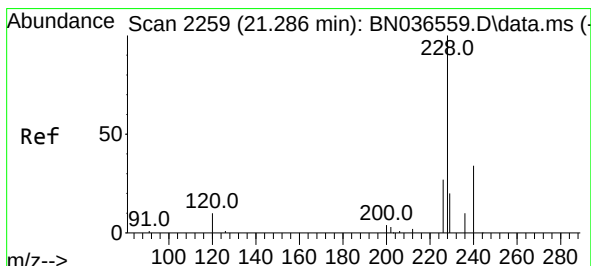
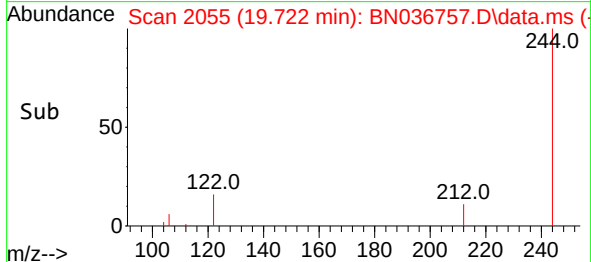
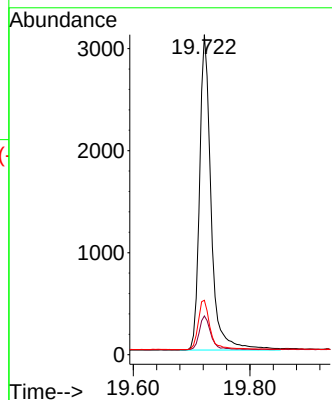


#31
 Terphenyl-d14
 Concen: 0.313 ng
 RT: 19.722 min Scan# 2055
 Delta R.T. -0.023 min
 Lab File: BN036757.D
 Acq: 28 Mar 2025 03:46

Instrument :
 BNA_N
 ClientSampleId :
 SSTDC0.4

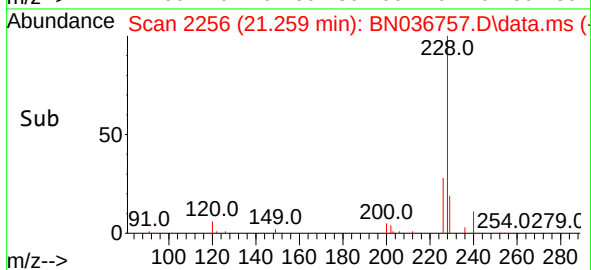
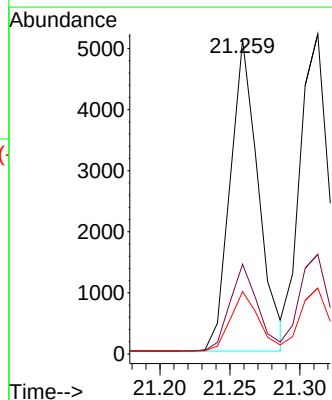
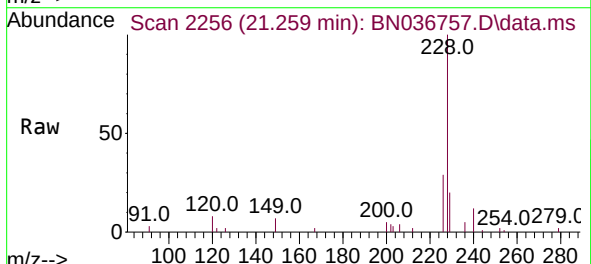


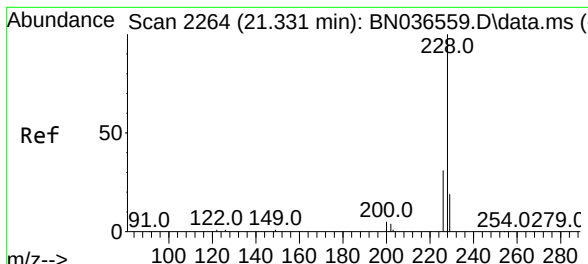
Tgt Ion:244 Resp: 4254
 Ion Ratio Lower Upper
 244 100
 212 12.1 9.6 14.4
 122 17.0 13.9 20.9



#32
 Benzo(a)anthracene
 Concen: 0.362 ng
 RT: 21.259 min Scan# 2256
 Delta R.T. -0.027 min
 Lab File: BN036757.D
 Acq: 28 Mar 2025 03:46

Tgt Ion:228 Resp: 7146
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.5 33.7
 229 19.8 16.6 25.0

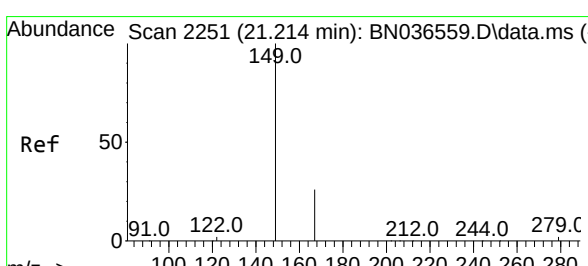
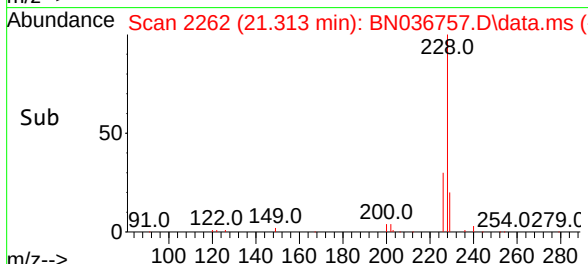
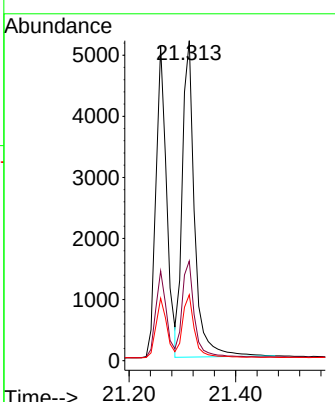
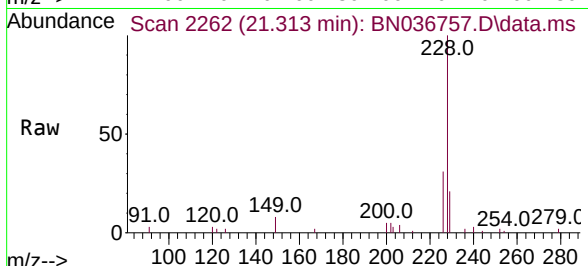




#33
 Chrysene
 Concen: 0.383 ng
 RT: 21.313 min Scan# 21
 Delta R.T. -0.018 min
 Lab File: BN036757.D
 Acq: 28 Mar 2025 03:46

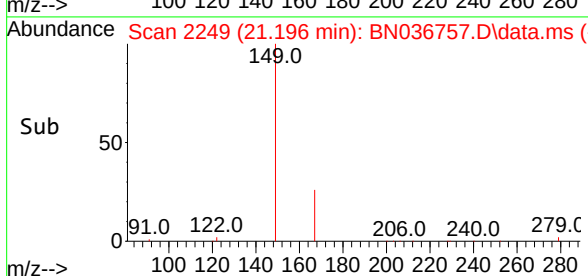
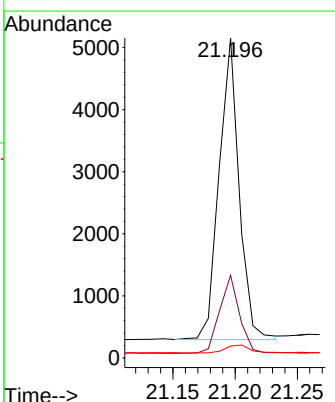
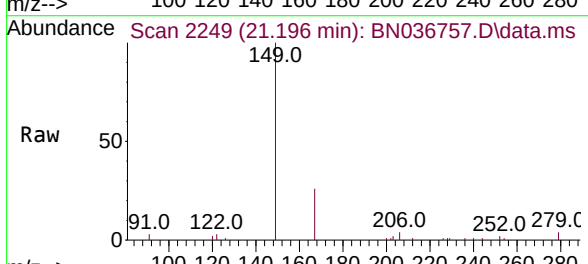
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4

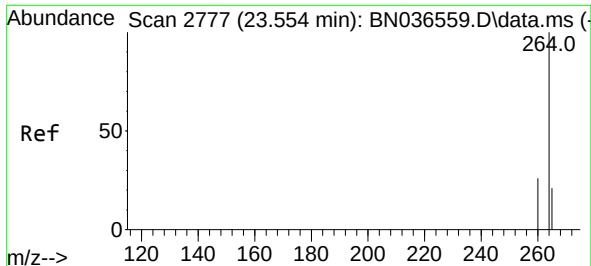
Tgt Ion:	228	Resp:	8272
Ion Ratio	Lower	Upper	
228	100		
226	31.1	25.3	37.9
229	20.6	15.8	23.8



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.386 ng
 RT: 21.196 min Scan# 2249
 Delta R.T. -0.018 min
 Lab File: BN036757.D
 Acq: 28 Mar 2025 03:46

Tgt Ion:	149	Resp:	5431
Ion Ratio	Lower	Upper	
149	100		
167	25.8	20.7	31.1
279	3.4	3.6	5.4

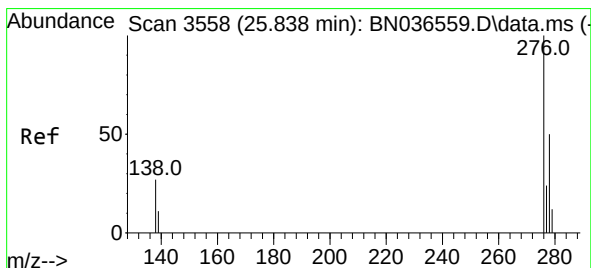
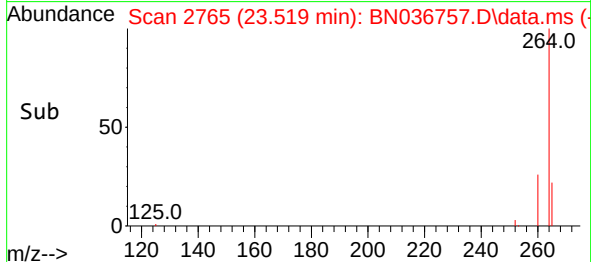
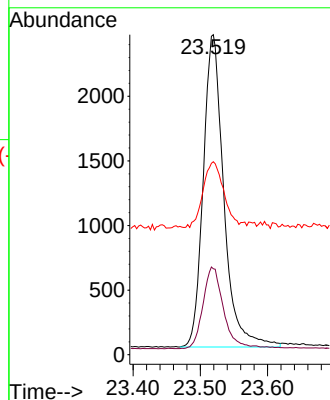
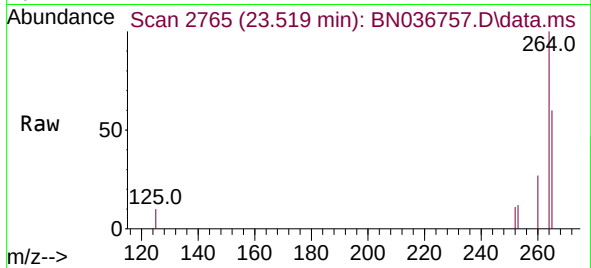




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.519 min Scan# 21
 Delta R.T. -0.035 min
 Lab File: BN036757.D
 Acq: 28 Mar 2025 03:46

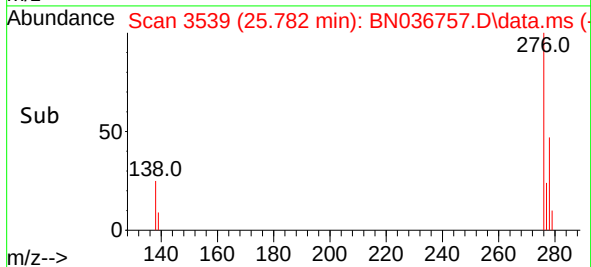
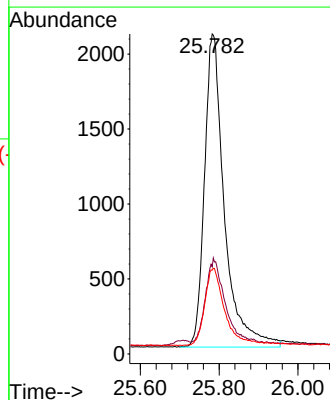
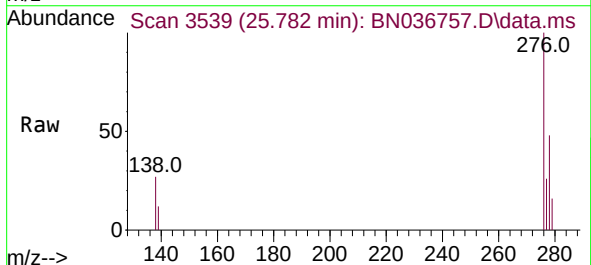
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

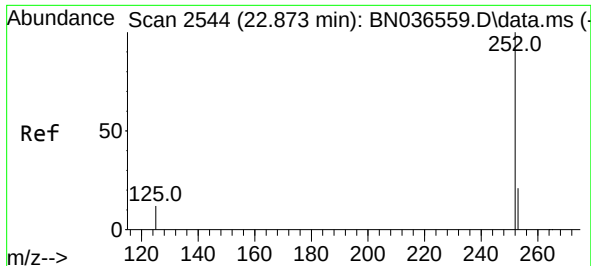
Tgt Ion:264 Resp: 5140
 Ion Ratio Lower Upper
 264 100
 260 26.8 22.6 33.8
 265 60.3 88.1 132.1#



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.394 ng
 RT: 25.782 min Scan# 3539
 Delta R.T. -0.055 min
 Lab File: BN036757.D
 Acq: 28 Mar 2025 03:46

Tgt Ion:276 Resp: 7314
 Ion Ratio Lower Upper
 276 100
 138 24.9 23.4 35.2
 277 24.6 20.0 30.0

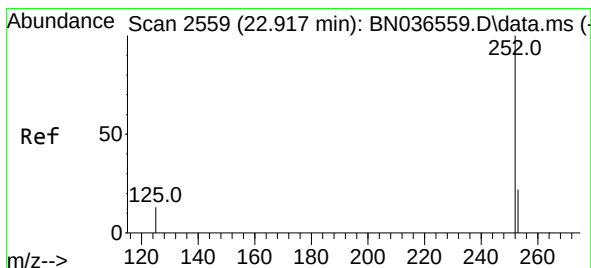
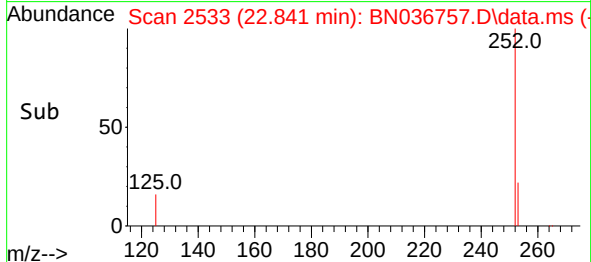
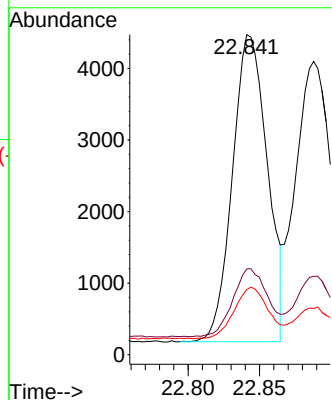
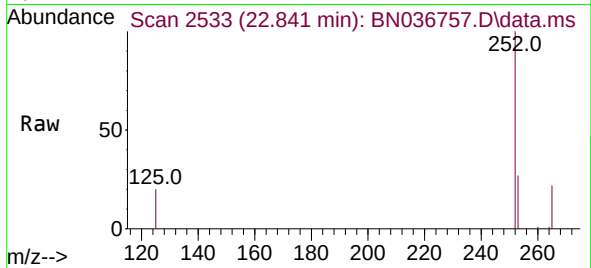




#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.032 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

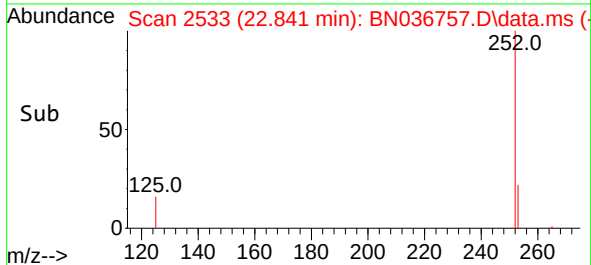
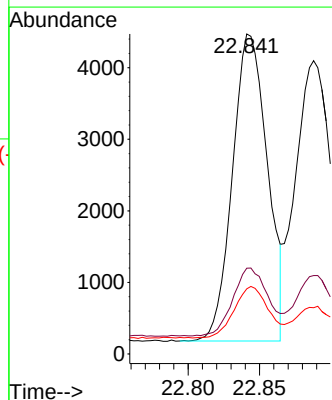
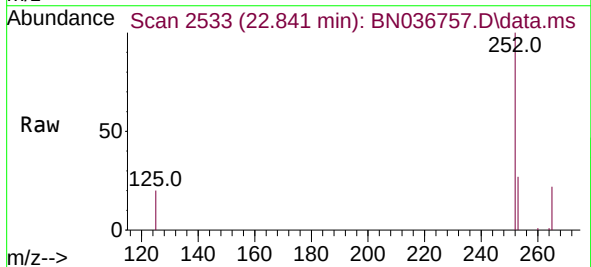
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

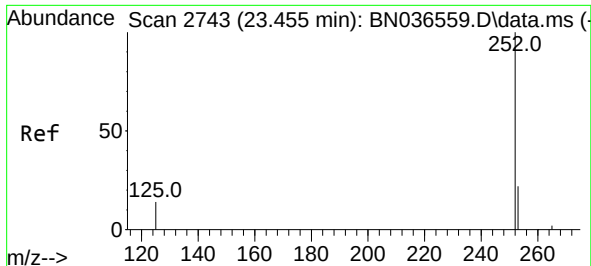
Tgt Ion:252 Resp: 7293
Ion Ratio Lower Upper
252 100
253 26.8 23.9 35.9
125 20.4 17.4 26.2



#38
Benzo(k)fluoranthene
Concen: 0.372 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.076 min
Lab File: BN036757.D
Acq: 28 Mar 2025 03:46

Tgt Ion:252 Resp: 7293
Ion Ratio Lower Upper
252 100
253 26.8 24.6 36.8
125 20.4 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.399 ng

RT: 23.420 min Scan# 21

Delta R.T. -0.035 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

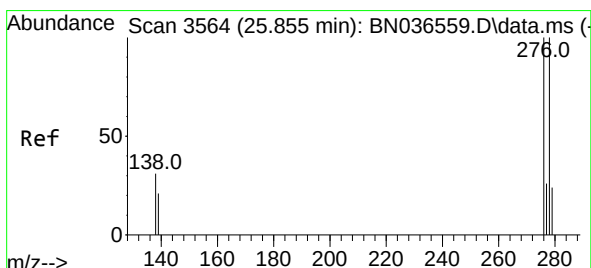
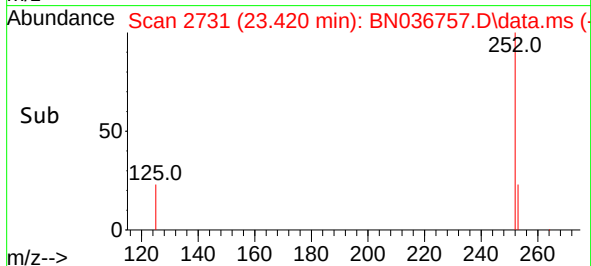
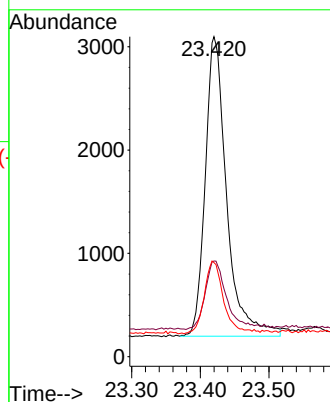
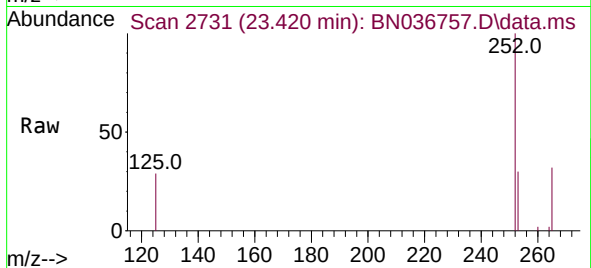
Tgt Ion:252 Resp: 6291

Ion Ratio Lower Upper

252 100

253 29.9 27.8 41.8

125 29.4 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.382 ng

RT: 25.803 min Scan# 3546

Delta R.T. -0.052 min

Lab File: BN036757.D

Acq: 28 Mar 2025 03:46

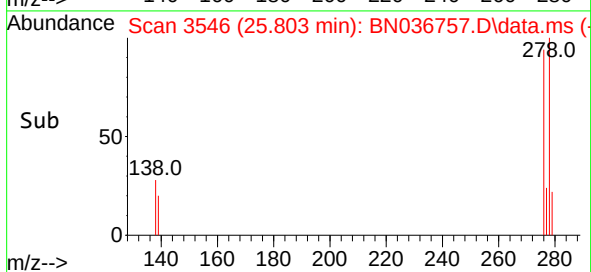
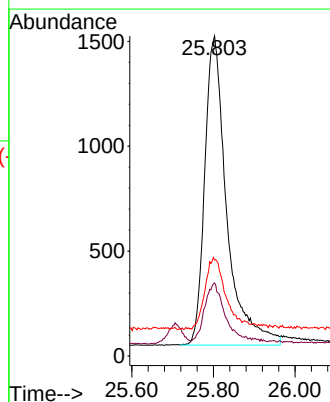
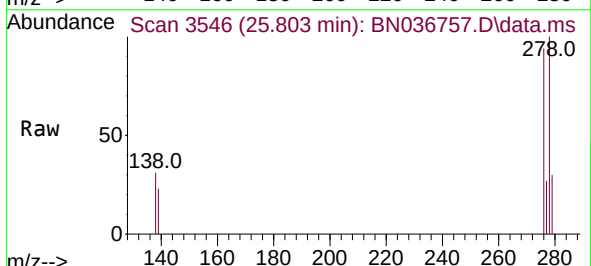
Tgt Ion:278 Resp: 5522

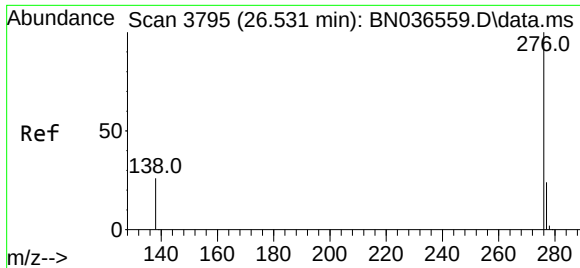
Ion Ratio Lower Upper

278 100

139 22.8 20.8 31.2

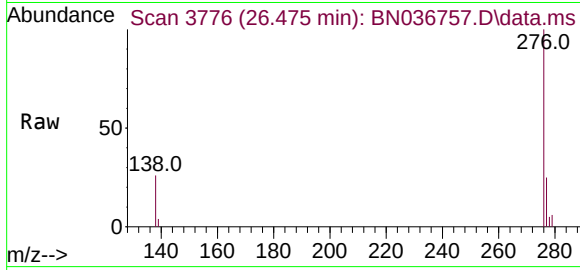
279 30.0 28.8 43.2



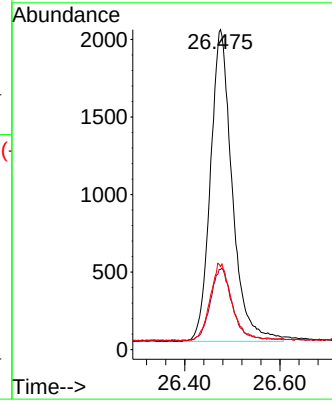
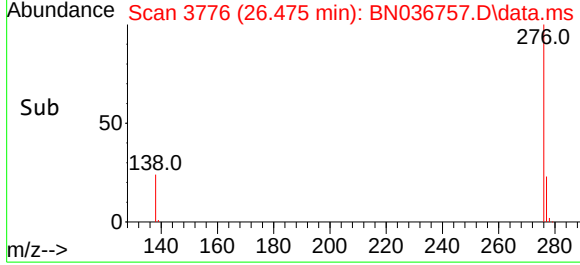


#41
 Benzo(g,h,i)perylene
 Concen: 0.386 ng
 RT: 26.475 min Scan# 31
 Delta R.T. -0.055 min
 Lab File: BN036757.D
 Acq: 28 Mar 2025 03:46

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4



Tgt Ion:	276	Resp:	6376
Ion	Ratio	Lower	Upper
276	100		
277	25.1	22.2	33.4
138	26.0	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
 Data File : BN036771.D
 Acq On : 28 Mar 2025 13:58
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Mar 28 14:23:03 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

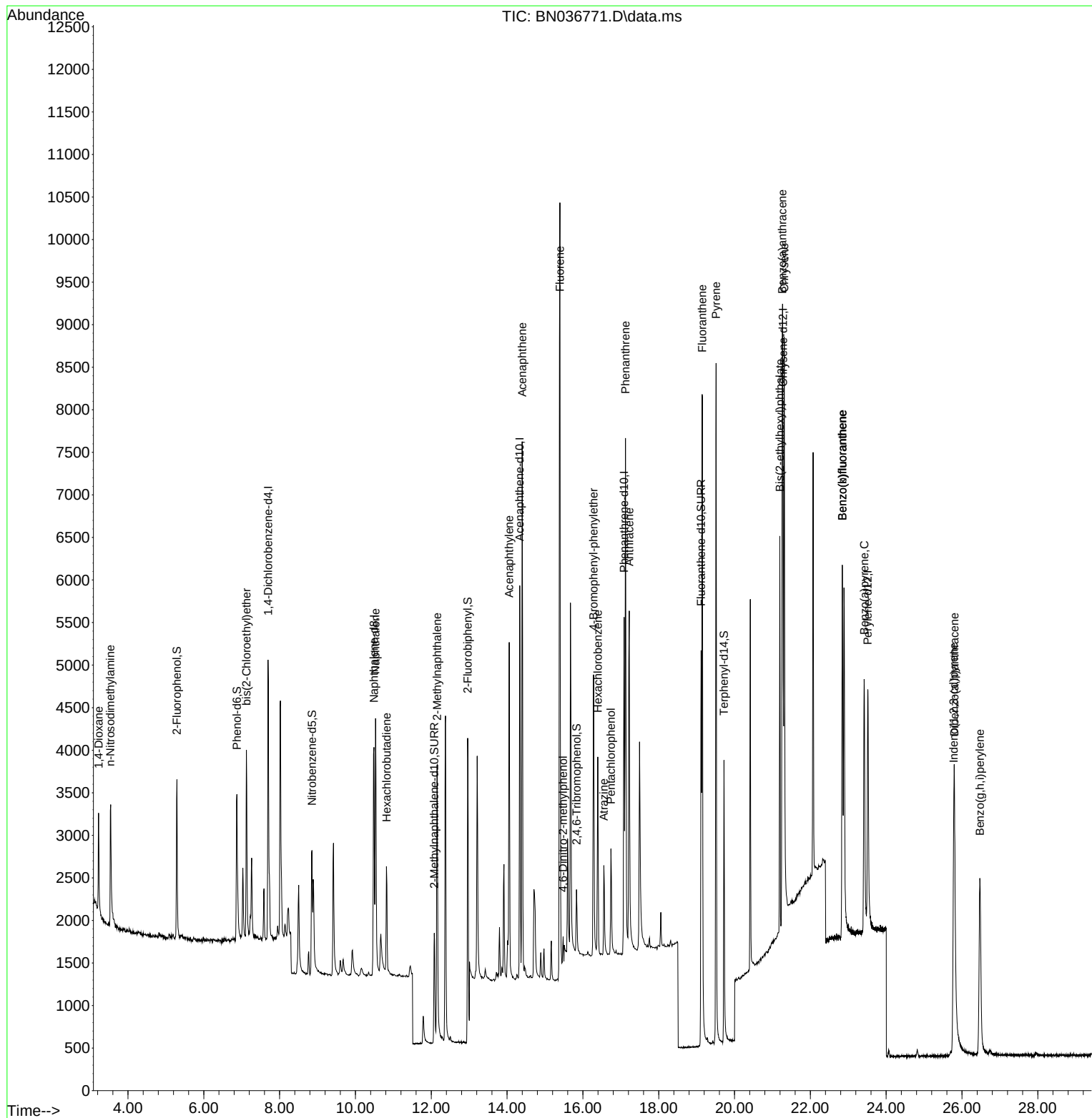
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1636	0.400	ng	-0.03
7) Naphthalene-d8	10.487	136	4177	0.400	ng	#-0.02
13) Acenaphthene-d10	14.334	164	2615	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	5571	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	4555	0.400	ng	#-0.02
35) Perylene-d12	23.516	264	4167	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1384	0.363	ng	-0.02
5) Phenol-d6	6.872	99	1653	0.351	ng	-0.03
8) Nitrobenzene-d5	8.854	82	1480	0.326	ng	-0.02
11) 2-Methylnaphthalene-d10	12.080	152	2256	0.363	ng	-0.03
14) 2,4,6-Tribromophenol	15.833	330	464	0.391	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	5285	0.347	ng	-0.03
27) Fluoranthene-d10	19.118	212	5637	0.395	ng	-0.02
31) Terphenyl-d14	19.722	244	3716	0.341	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.225	88	752	0.414	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.535	42	1423	0.388	ng	97
6) bis(2-Chloroethyl)ether	7.125	93	1671	0.343	ng	98
9) Naphthalene	10.530	128	4359	0.355	ng	98
10) Hexachlorobutadiene	10.818	225	1044	0.361	ng	# 99
12) 2-Methylnaphthalene	12.156	142	2874	0.368	ng	98
16) Acenaphthylene	14.056	152	4358	0.353	ng	99
17) Acenaphthene	14.398	154	2946	0.365	ng	100
18) Fluorene	15.393	166	4111	0.376	ng	98
20) 4,6-Dinitro-2-methylph...	15.478	198	428	0.446	ng	87
21) 4-Bromophenyl-phenylether	16.280	248	1300	0.372	ng	96
22) Hexachlorobenzene	16.391	284	1537	0.365	ng	96
23) Atrazine	16.553	200	1063	0.380	ng	97
24) Pentachlorophenol	16.739	266	702	0.365	ng	95
25) Phenanthrene	17.124	178	6367	0.381	ng	99
26) Anthracene	17.223	178	5569	0.369	ng	100
28) Fluoranthene	19.150	202	7617	0.406	ng	99
30) Pyrene	19.513	202	7795	0.350	ng	99
32) Benzo(a)anthracene	21.259	228	5566	0.351	ng	99
33) Chrysene	21.313	228	6726	0.389	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	3968	0.352	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.782	276	5233	0.348	ng	96
37) Benzo(b)fluoranthene	22.844	252	5720	0.377	ng	97
38) Benzo(k)fluoranthene	22.844	252	5720	0.360	ng	96
39) Benzo(a)pyrene	23.420	252	4867	0.381	ng	96
40) Dibenzo(a,h)anthracene	25.800	278	3914	0.334	ng	96
41) Benzo(g,h,i)perylene	26.475	276	4758	0.355	ng	95

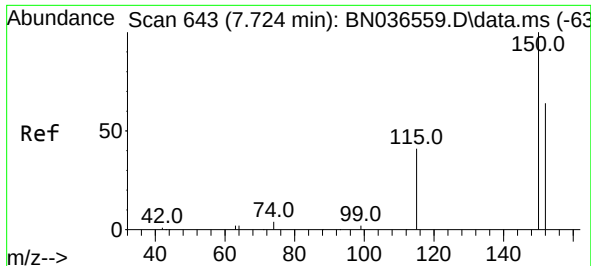
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032725\
Data File : BN036771.D
Acq On : 28 Mar 2025 13:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

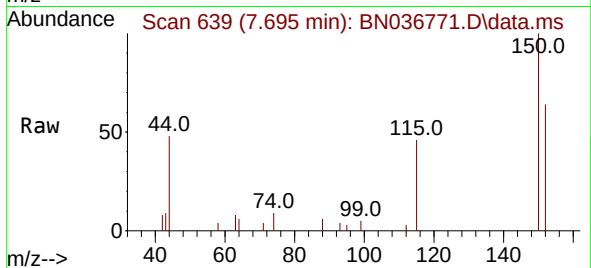
Quant Time: Mar 28 14:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration





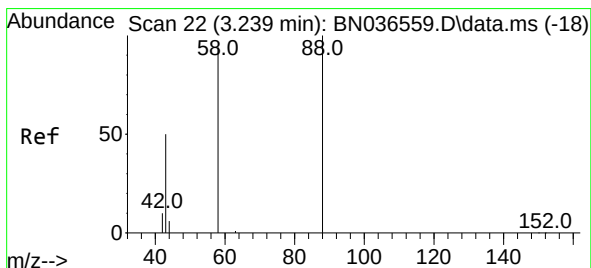
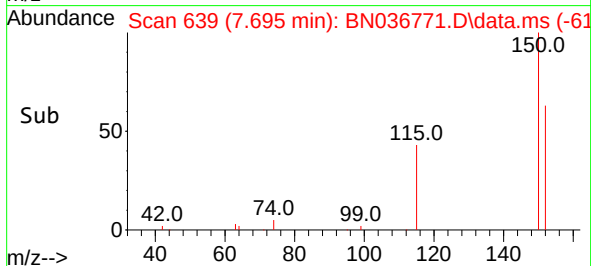
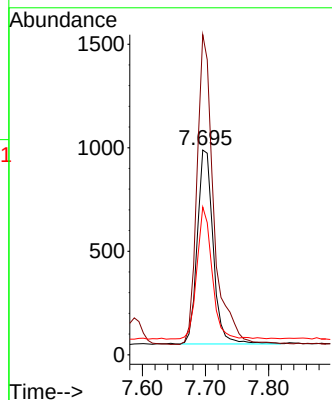
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.695 min Scan# 61
 Delta R.T. -0.029 min
 Lab File: BN036771.D
 Acq: 28 Mar 2025 13:58

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



Tgt Ion:152 Resp: 1636

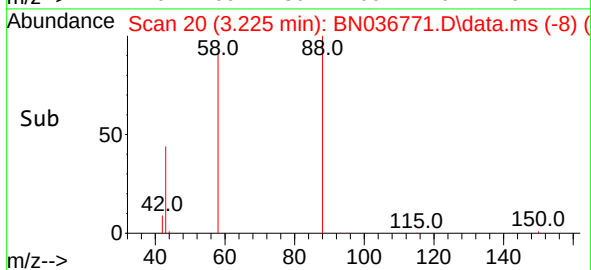
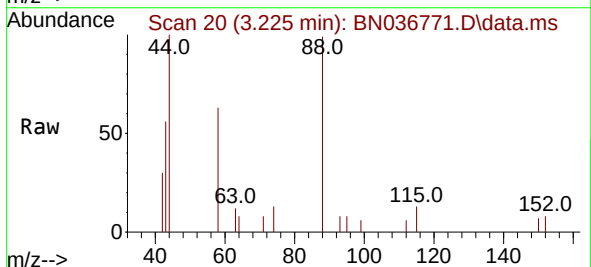
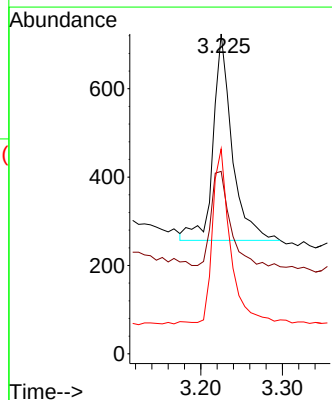
Ion	Ratio	Lower	Upper
152	100		
150	156.3	123.7	185.5
115	72.2	54.3	81.5

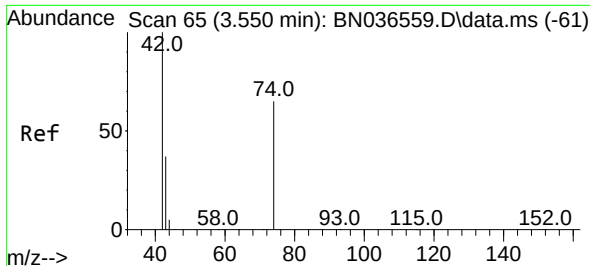


#2
 1,4-Dioxane
 Concen: 0.414 ng
 RT: 3.225 min Scan# 20
 Delta R.T. -0.014 min
 Lab File: BN036771.D
 Acq: 28 Mar 2025 13:58

Tgt Ion: 88 Resp: 752

Ion	Ratio	Lower	Upper
88	100		
43	47.5	37.8	56.8
58	80.9	67.4	101.2

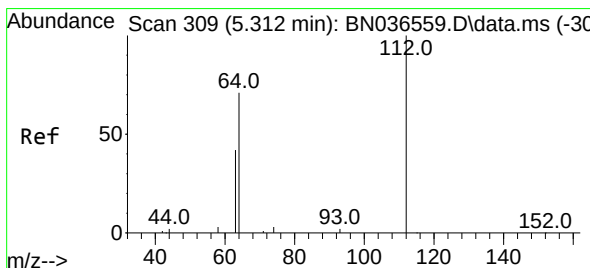
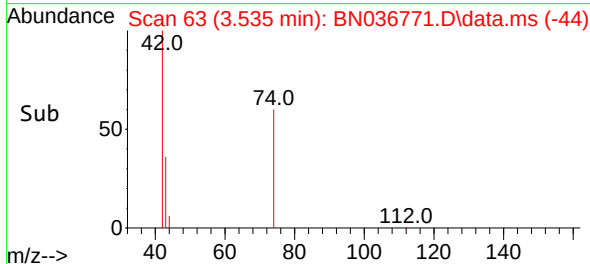
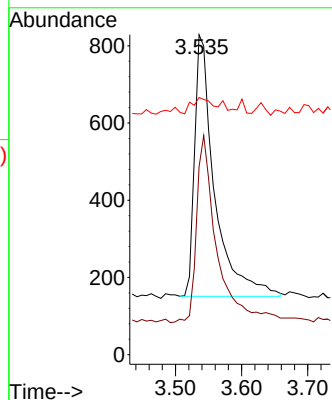
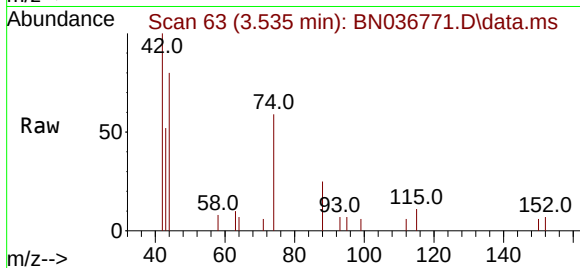




#3
 n-Nitrosodimethylamine
 Concen: 0.388 ng
 RT: 3.535 min Scan# 61
 Delta R.T. -0.014 min
 Lab File: BN036771.D
 Acq: 28 Mar 2025 13:58

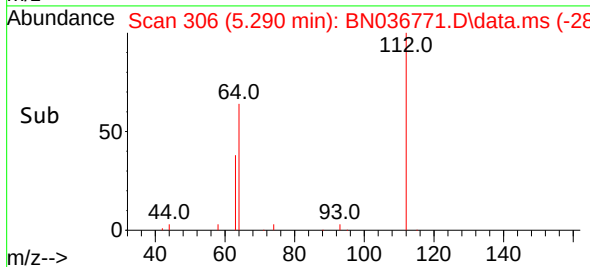
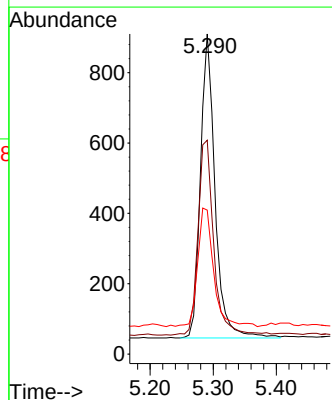
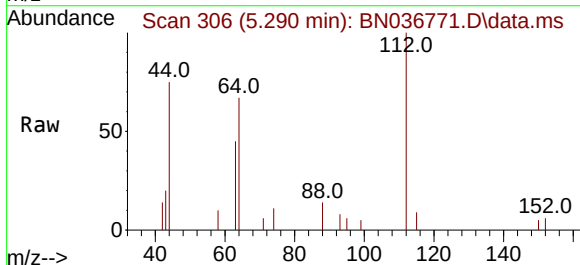
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

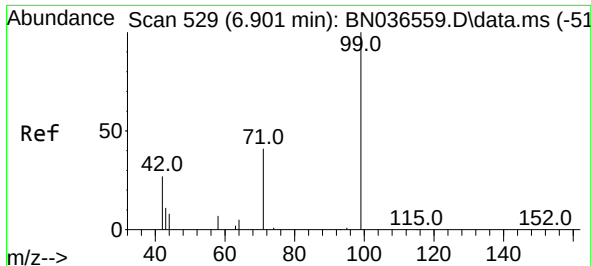
Tgt Ion: 42 Resp: 1423
 Ion Ratio Lower Upper
 42 100
 74 72.9 60.6 90.8
 44 6.7 6.3 9.5



#4
 2-Fluorophenol
 Concen: 0.363 ng
 RT: 5.290 min Scan# 306
 Delta R.T. -0.022 min
 Lab File: BN036771.D
 Acq: 28 Mar 2025 13:58

Tgt Ion: 112 Resp: 1384
 Ion Ratio Lower Upper
 112 100
 64 69.4 53.1 79.7
 63 42.8 31.8 47.8

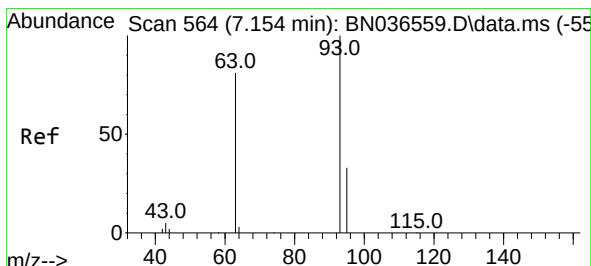
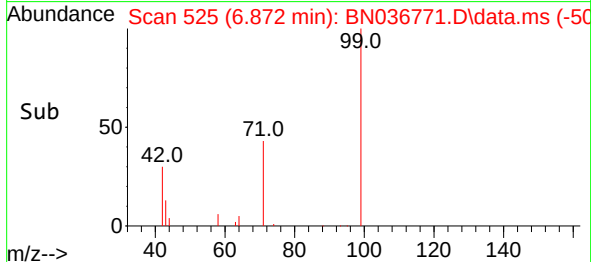
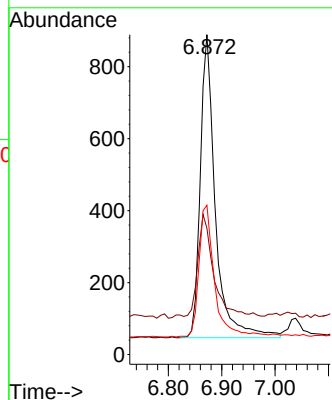
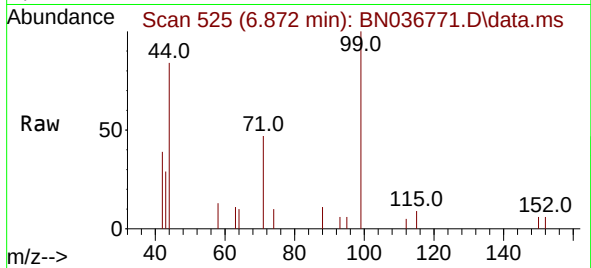




#5
Phenol-d6
Concen: 0.351 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

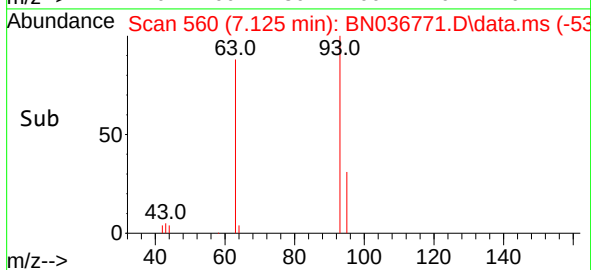
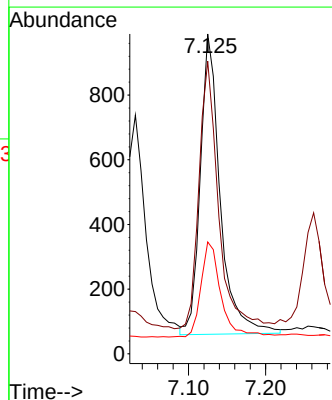
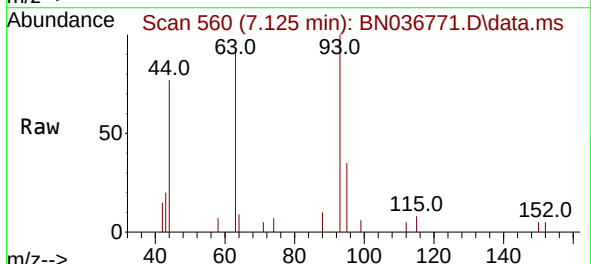
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

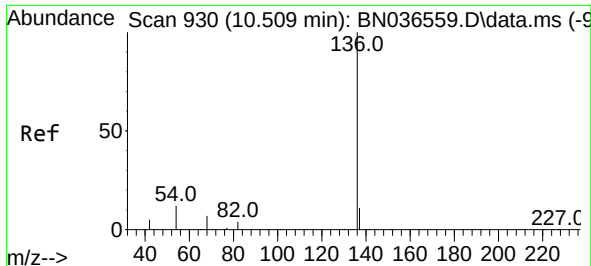
Tgt Ion: 99	Resp: 1653
Ion Ratio	Lower Upper
99 100	
42 37.9	26.5 39.7
71 45.1	34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.343 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion: 93	Resp: 1671
Ion Ratio	Lower Upper
93 100	
63 87.3	67.7 101.5
95 31.8	25.6 38.4

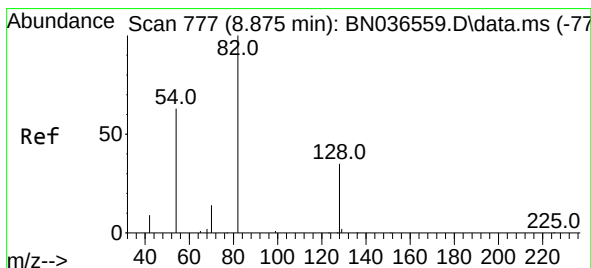
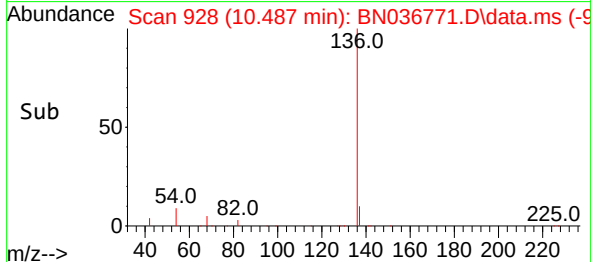
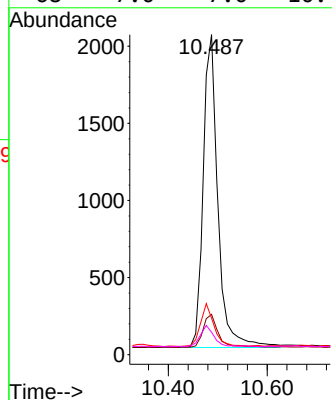
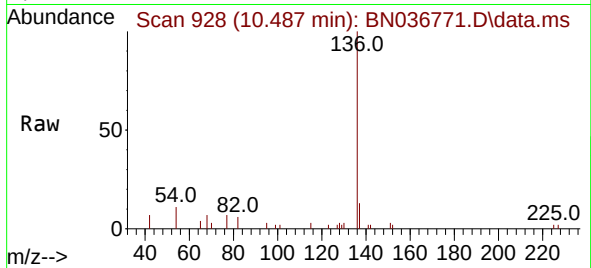




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

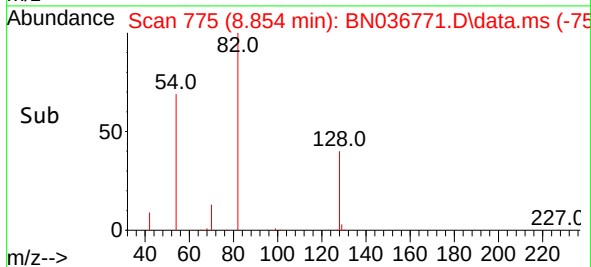
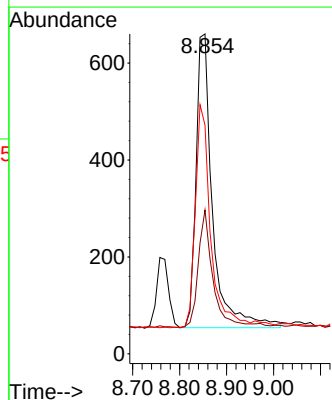
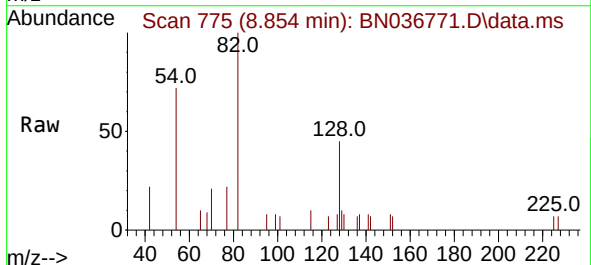
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

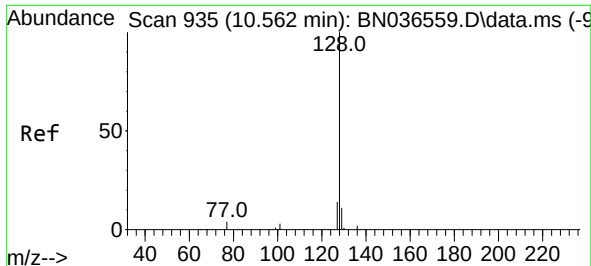
Tgt Ion:	136	Resp:	4177
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.3	15.5
54	11.4	11.5	17.3#
68	7.0	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.326 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:	82	Resp:	1480
Ion	Ratio	Lower	Upper
82	100		
128	45.0	30.6	45.8
54	71.5	52.2	78.4

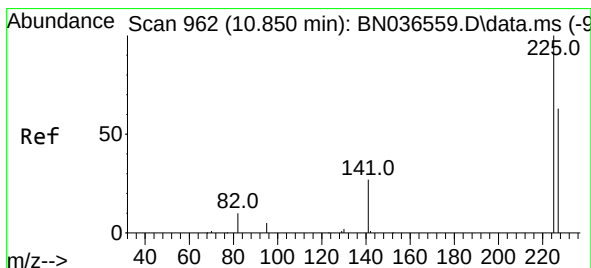
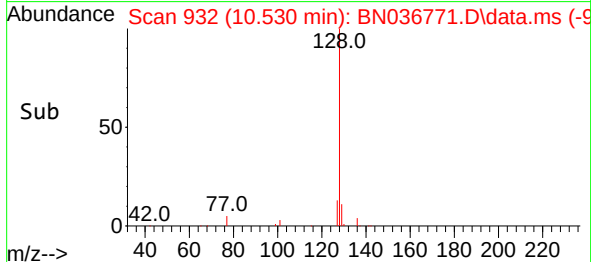
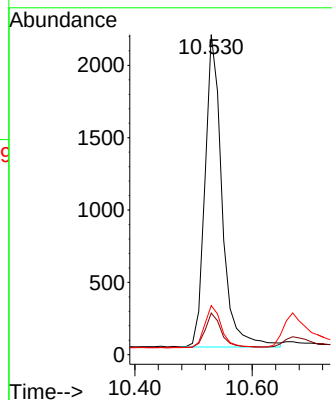
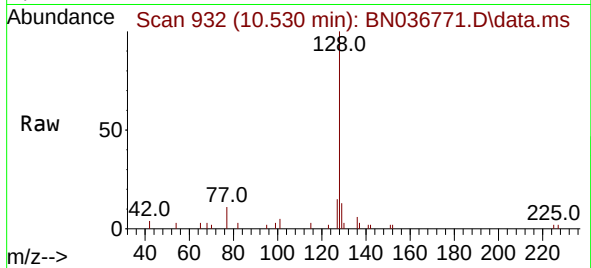




#9
Naphthalene
Concen: 0.355 ng
RT: 10.530 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

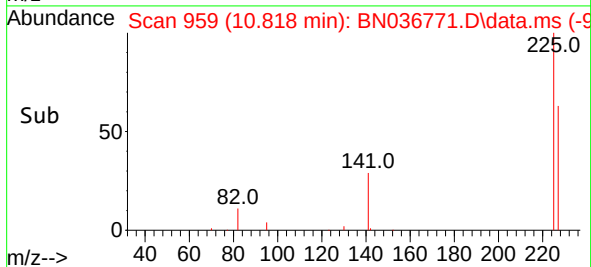
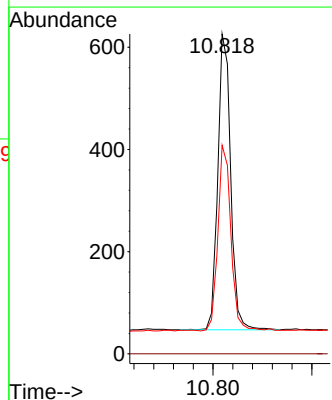
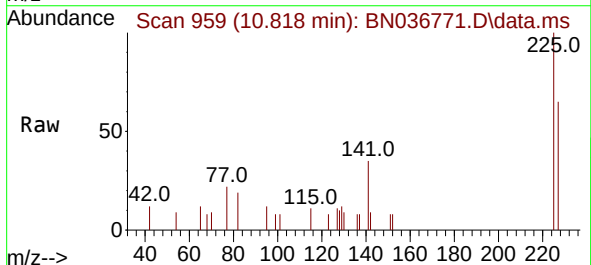
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

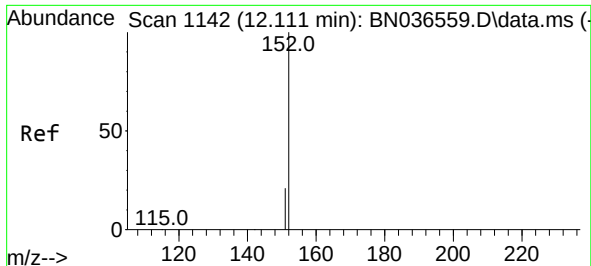
Tgt Ion:128	Resp:	4359
Ion Ratio	Lower	Upper
128	100	
129	13.0	9.8 14.6
127	15.4	11.8 17.8



#10
Hexachlorobutadiene
Concen: 0.361 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:225	Resp:	1044
Ion Ratio	Lower	Upper
225	100	
223	0.0	0.0 0.0
227	63.8	51.8 77.8

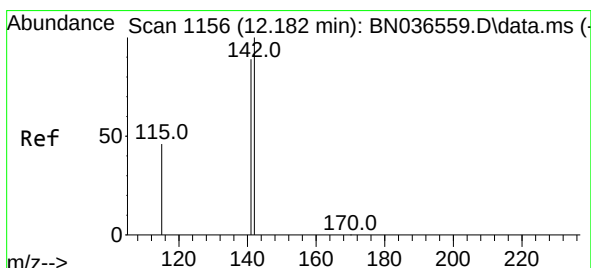
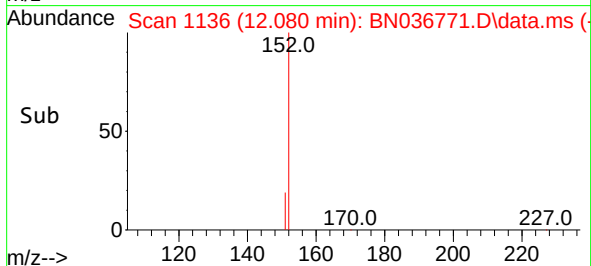
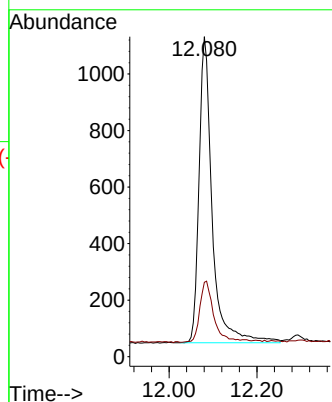
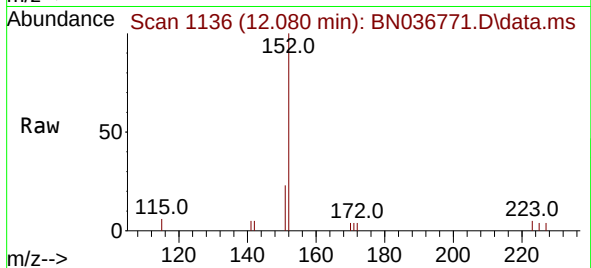




#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.080 min Scan# 1142
Delta R.T. -0.030 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

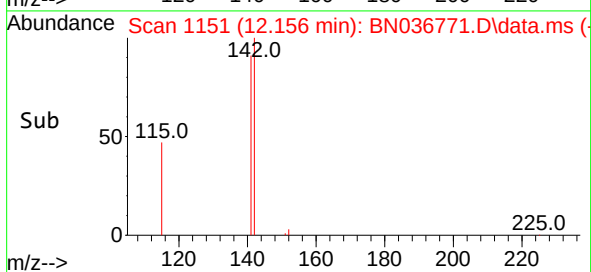
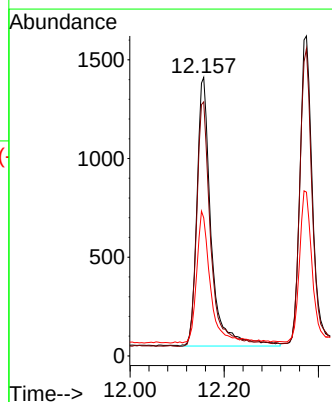
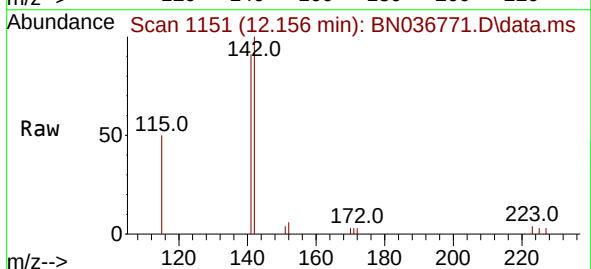
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

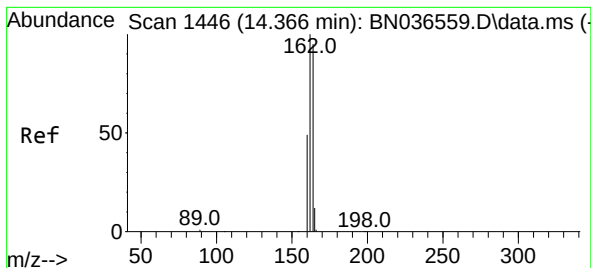
Tgt Ion:152 Resp: 2256
Ion Ratio Lower Upper
152 100
151 21.0 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:142 Resp: 2874
Ion Ratio Lower Upper
142 100
141 91.2 71.7 107.5
115 49.5 38.3 57.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.334 min Scan# 14

Delta R.T. -0.032 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

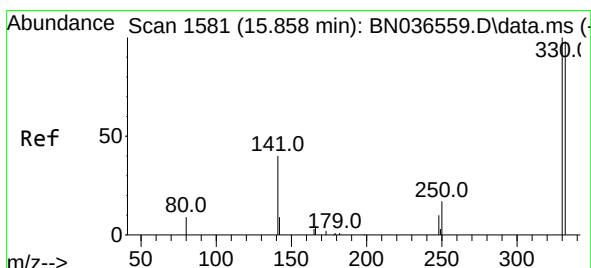
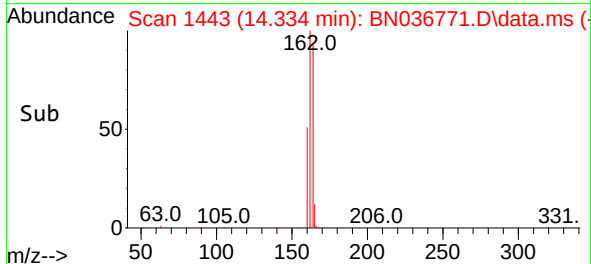
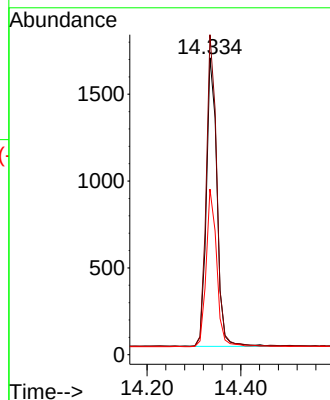
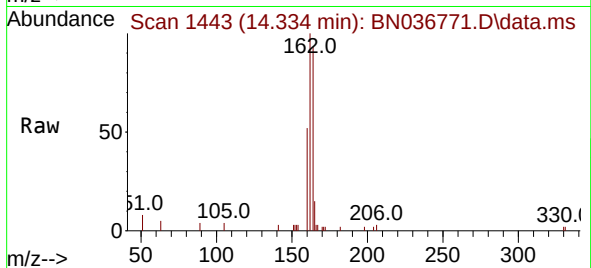
Tgt Ion:164 Resp: 2615

Ion Ratio Lower Upper

164 100

162 107.8 84.2 126.2

160 55.8 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.391 ng

RT: 15.833 min Scan# 1579

Delta R.T. -0.025 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

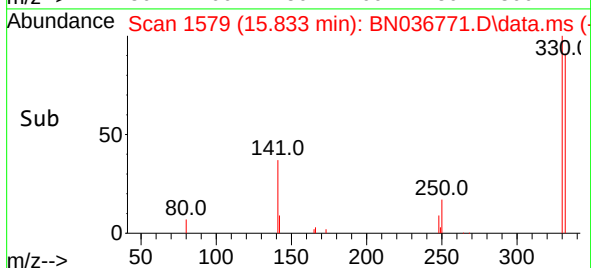
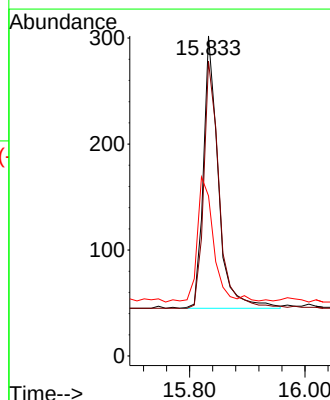
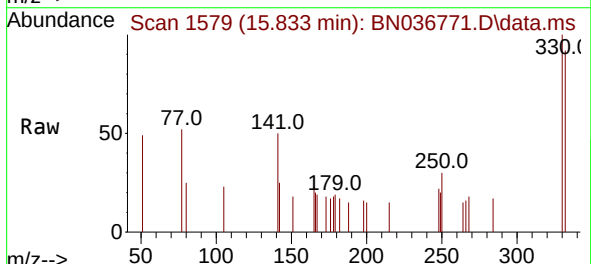
Tgt Ion:330 Resp: 464

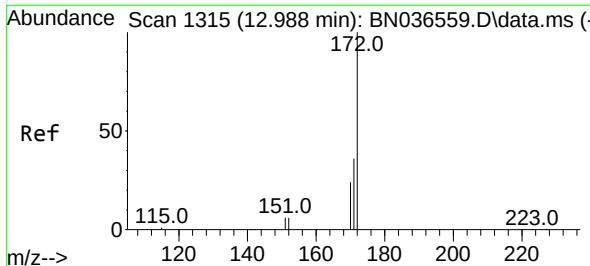
Ion Ratio Lower Upper

330 100

332 93.3 75.2 112.8

141 49.1 43.4 65.2

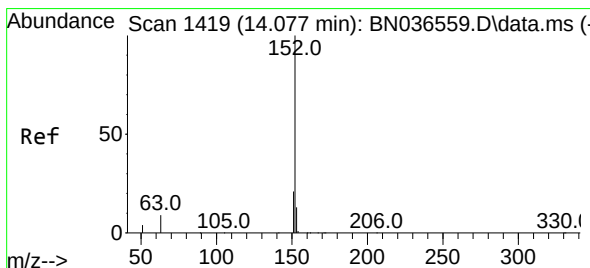
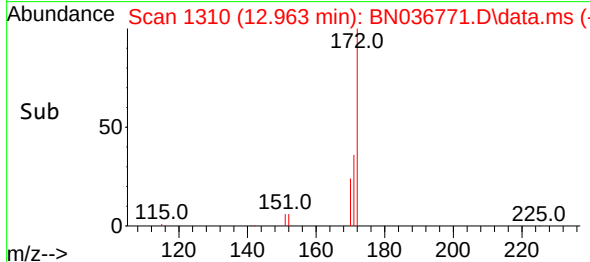
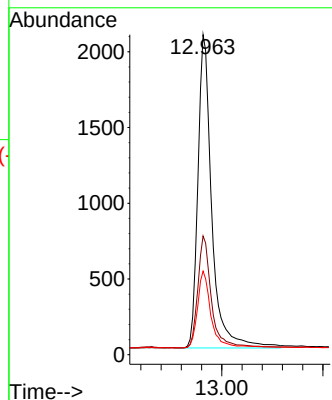
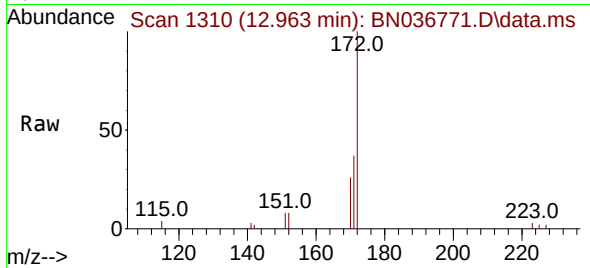




#15
2-Fluorobiphenyl
Concen: 0.347 ng
RT: 12.963 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

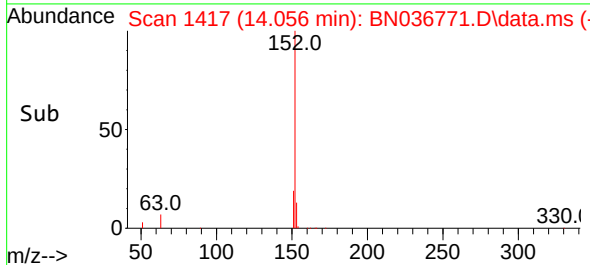
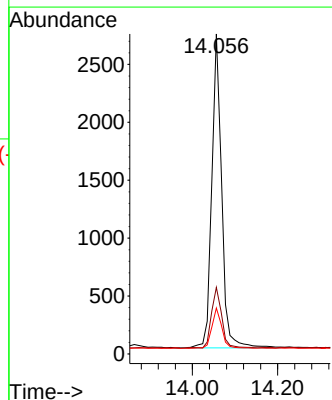
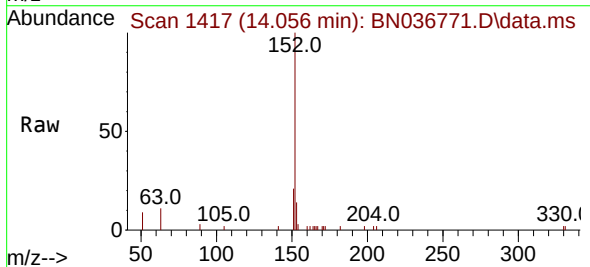
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

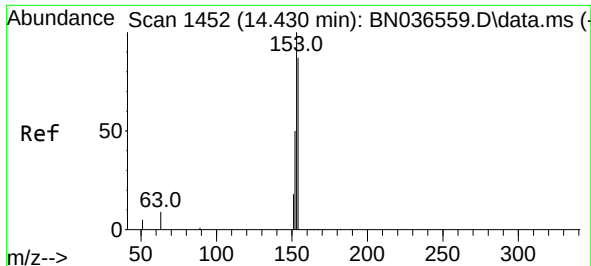
Tgt Ion:172	Resp:	5285
Ion Ratio	Lower	Upper
172	100	
171	37.1	29.5 44.3
170	26.1	20.2 30.4



#16
Acenaphthylene
Concen: 0.353 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:152	Resp:	4358
Ion Ratio	Lower	Upper
152	100	
151	19.5	16.2 24.4
153	13.1	10.6 15.8

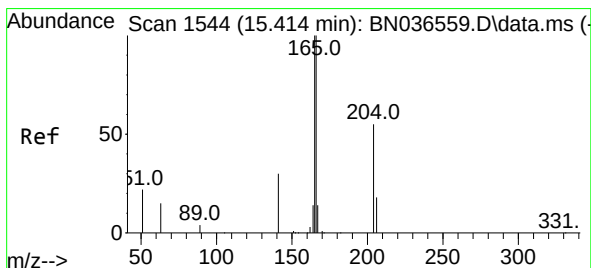
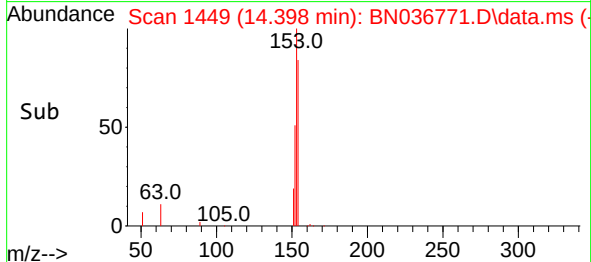
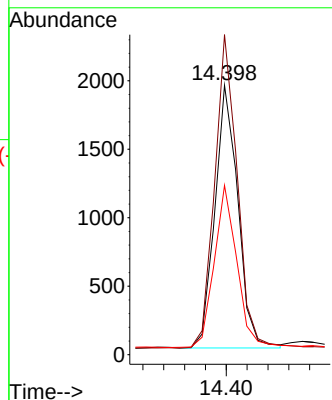
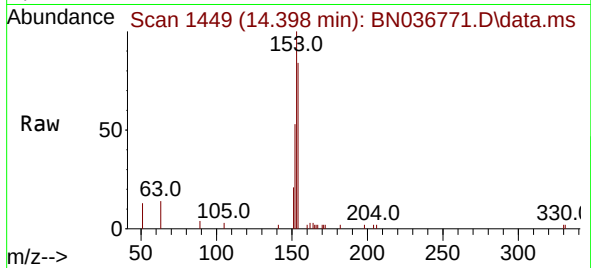




#17
Acenaphthene
Concen: 0.365 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

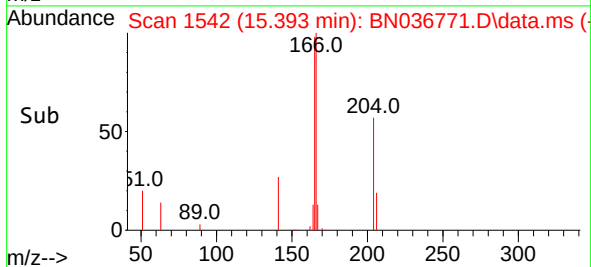
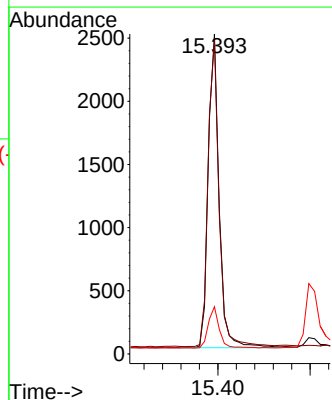
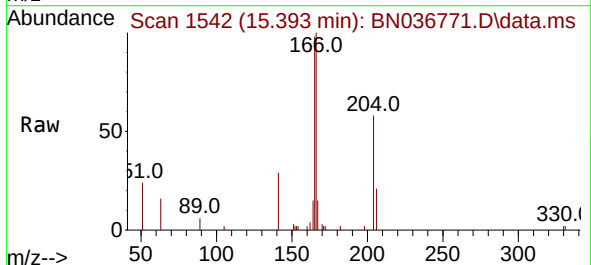
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

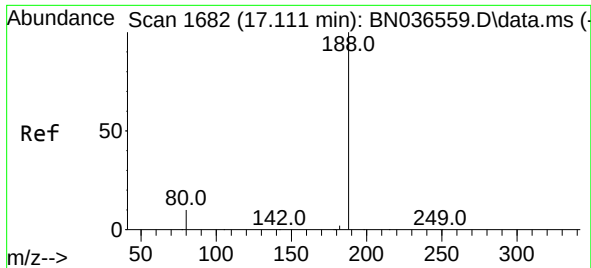
Tgt Ion:	154	Resp:	2946
Ion Ratio	Lower	Upper	
154	100		
153	117.7	94.1	141.1
152	61.6	49.8	74.6



#18
Fluorene
Concen: 0.376 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:	166	Resp:	4111
Ion Ratio	Lower	Upper	
166	100		
165	97.9	79.8	119.8
167	13.4	10.6	15.8

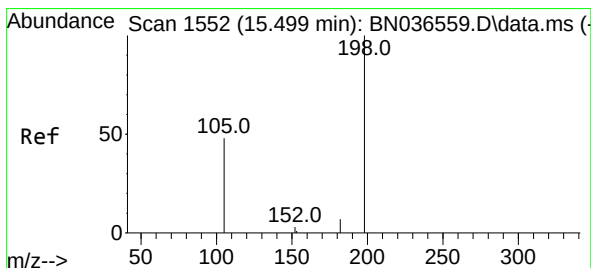
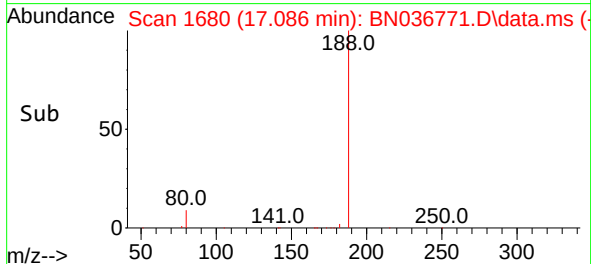
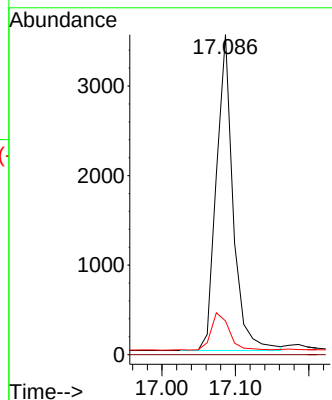
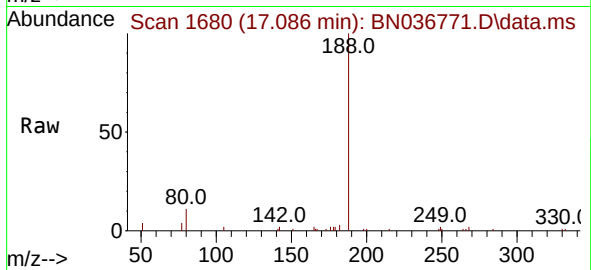




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

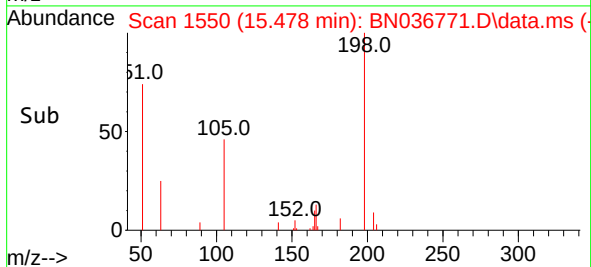
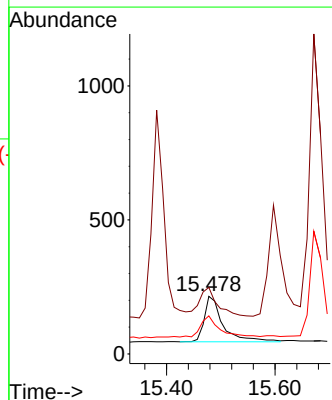
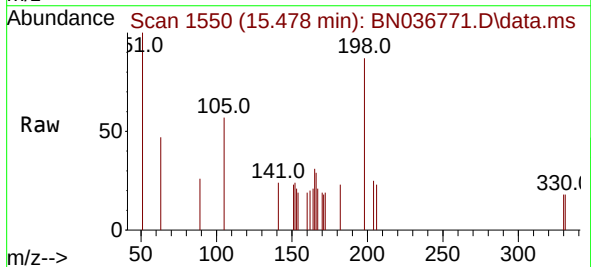
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

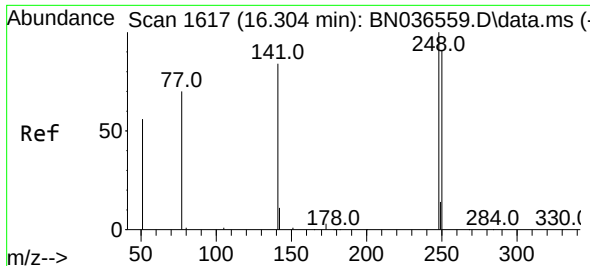
Tgt Ion:188 Resp: 5571
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.6 8.8 13.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.446 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:198 Resp: 428
Ion Ratio Lower Upper
198 100
51 115.3 107.9 161.9
105 66.0 56.2 84.2

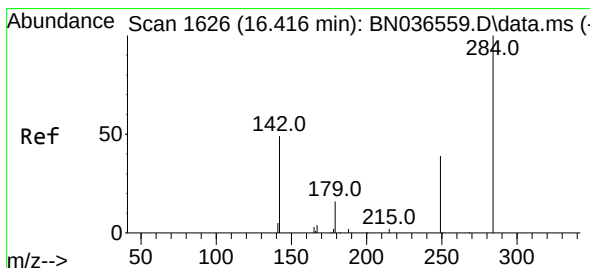
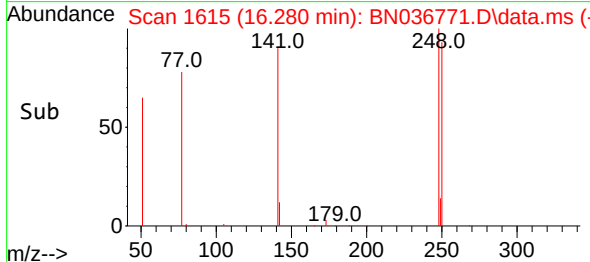
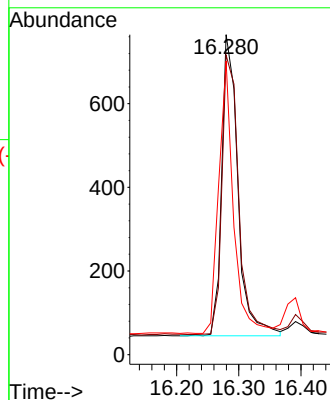
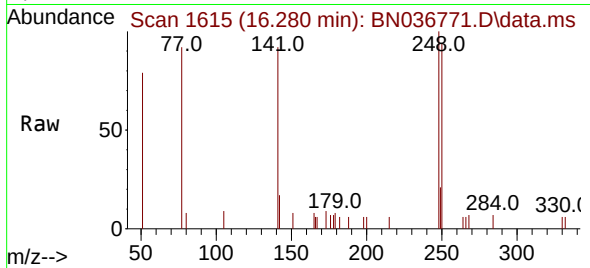




#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

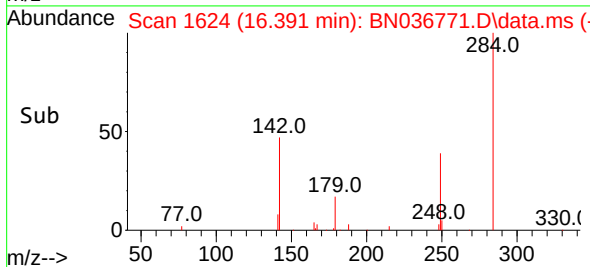
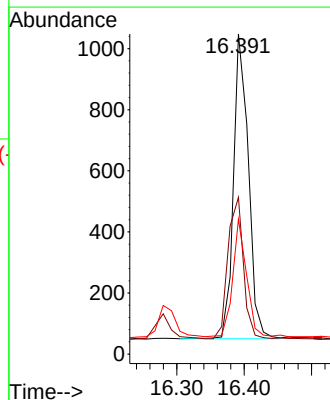
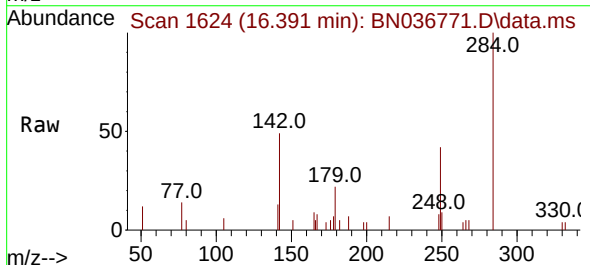
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

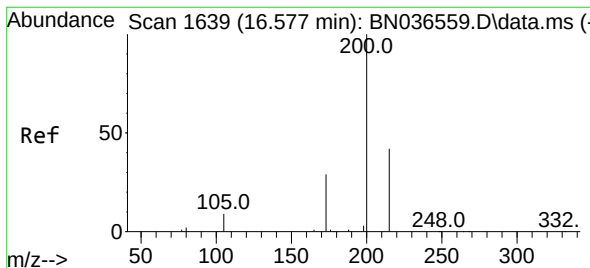
Tgt Ion:248	Resp:	1300
Ion Ratio	Lower	Upper
248	100	
250	93.6	73.0 109.6
141	91.8	68.6 103.0



#22
Hexachlorobenzene
Concen: 0.365 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:284	Resp:	1537
Ion Ratio	Lower	Upper
284	100	
142	49.5	37.0 55.4
249	36.2	28.1 42.1





#23

Atrazine

Concen: 0.380 ng

RT: 16.553 min Scan# 1

Delta R.T. -0.025 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

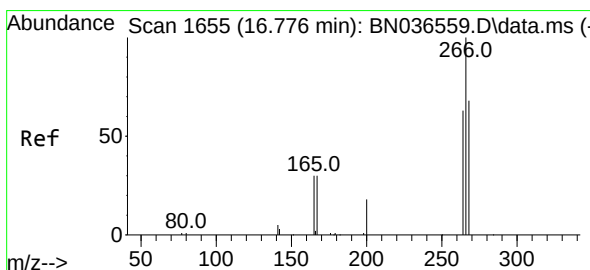
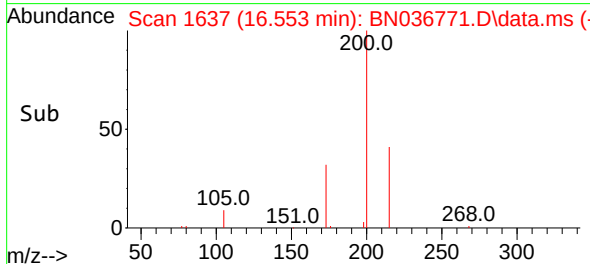
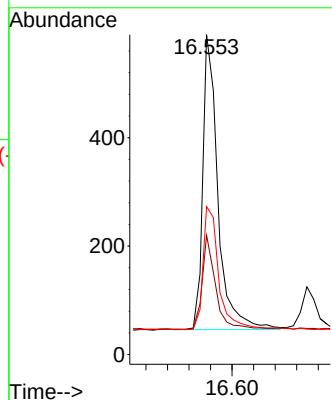
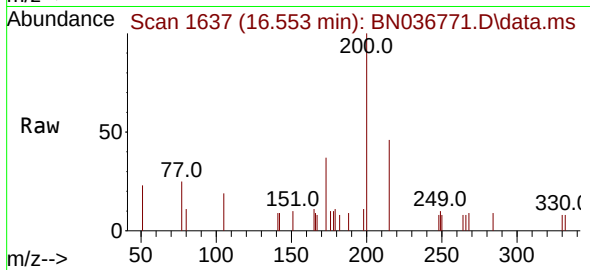
Tgt Ion:200 Resp: 1063

Ion Ratio Lower Upper

200 100

173 37.3 27.3 40.9

215 46.3 36.8 55.2



#24

Pentachlorophenol

Concen: 0.365 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.037 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

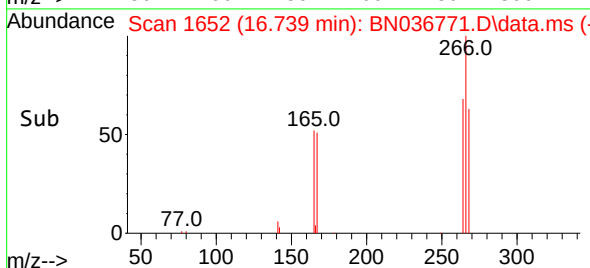
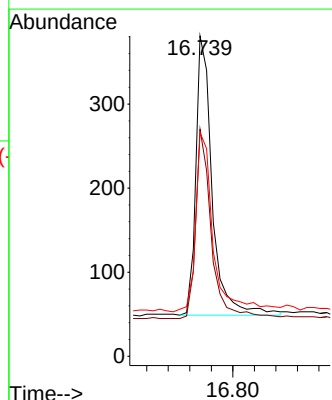
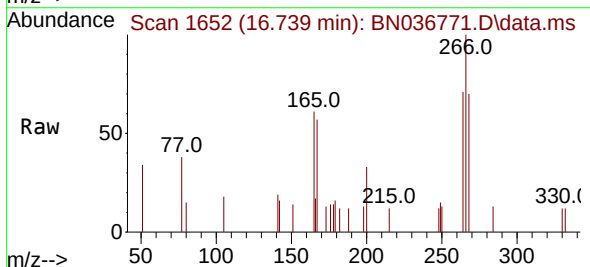
Tgt Ion:266 Resp: 702

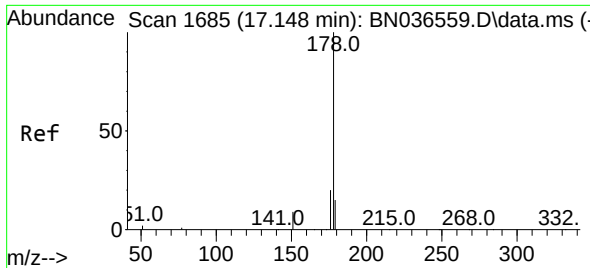
Ion Ratio Lower Upper

266 100

264 64.8 49.6 74.4

268 69.2 50.9 76.3

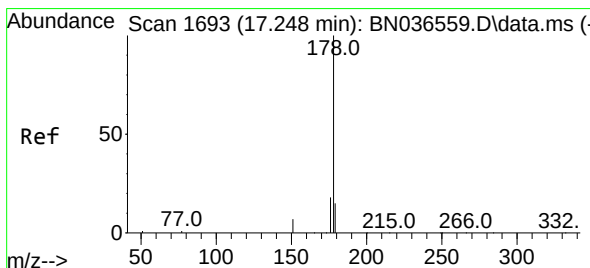
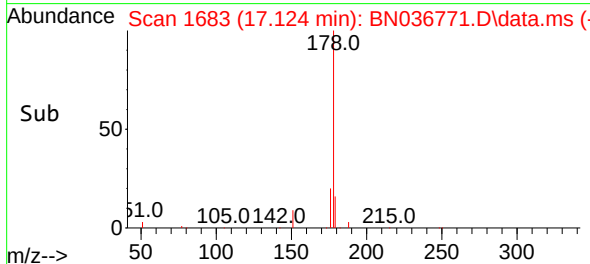
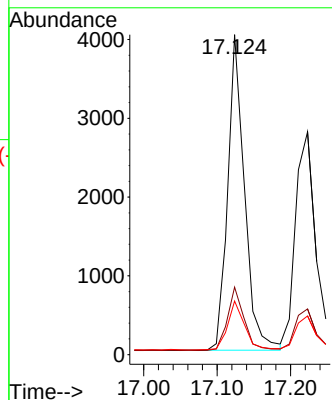
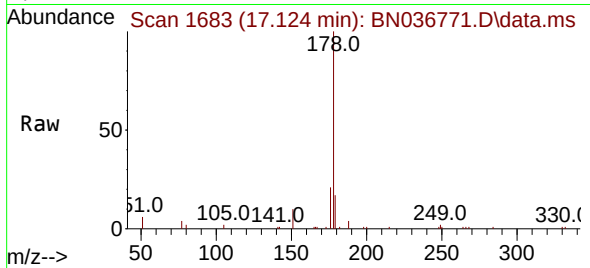




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

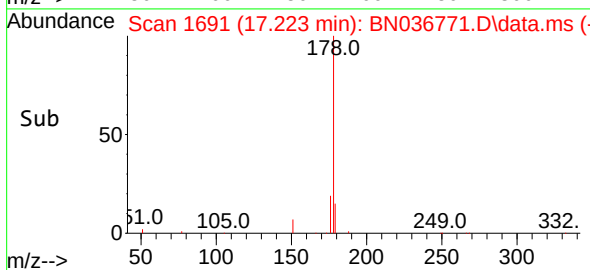
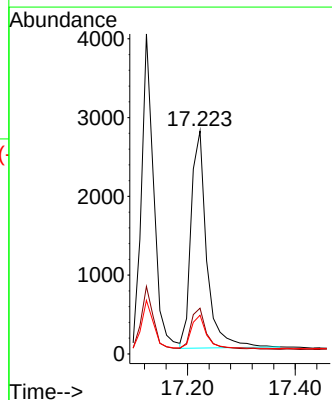
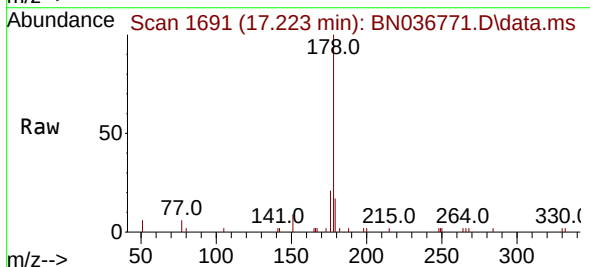
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

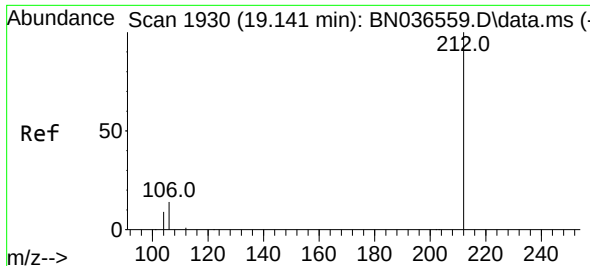
Tgt Ion:178 Resp: 6367
Ion Ratio Lower Upper
178 100
176 20.0 15.9 23.9
179 15.8 12.2 18.4



#26
Anthracene
Concen: 0.369 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:178 Resp: 5569
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.4 12.6 18.8

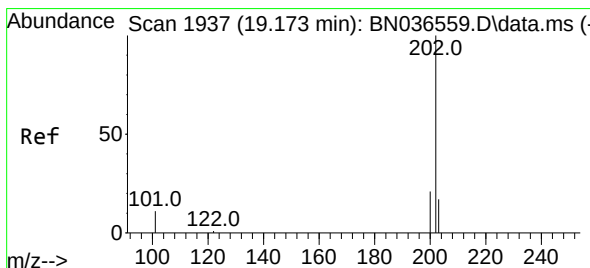
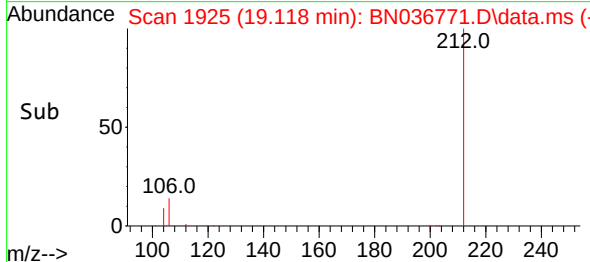
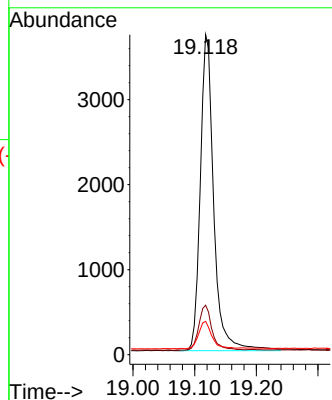
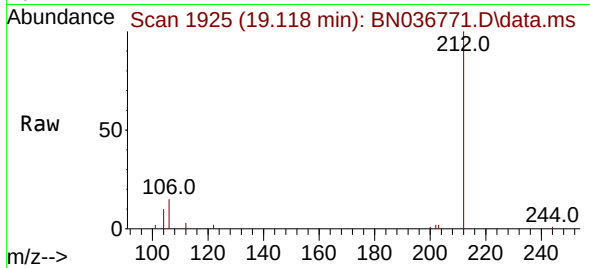




#27
Fluoranthene-d10
Concen: 0.395 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

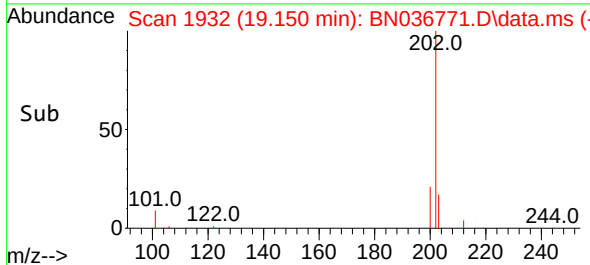
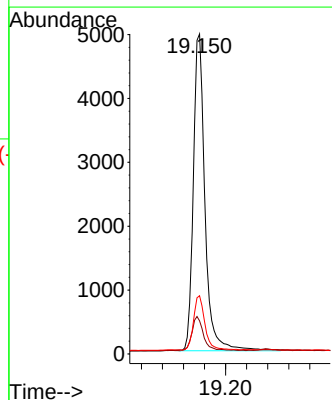
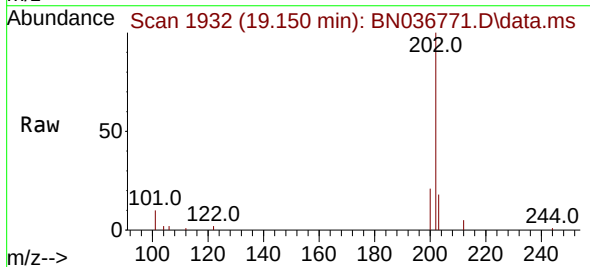
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

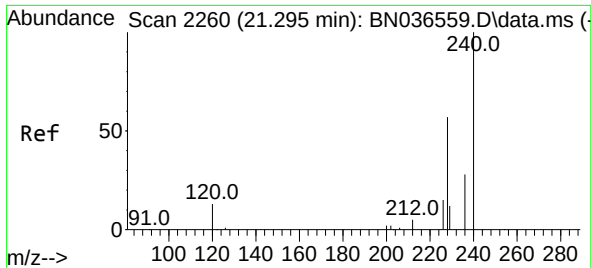
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.8	11.8	17.6
104	8.6	7.3	10.9



#28
Fluoranthene
Concen: 0.406 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.0	9.4	14.0
203	16.8	13.5	20.3

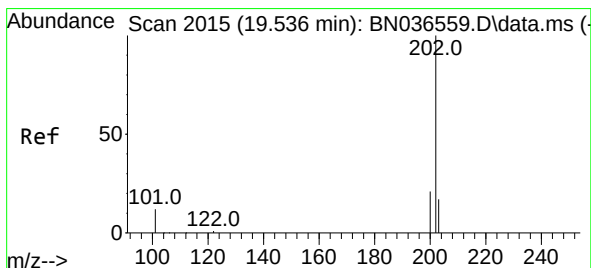
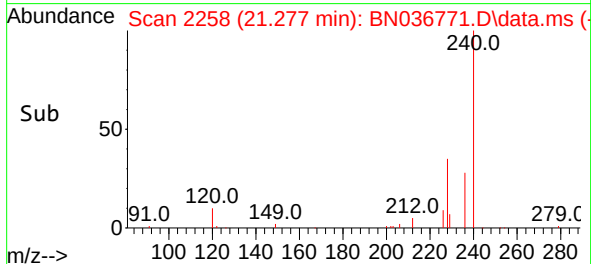
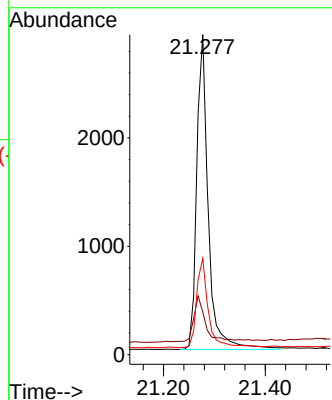
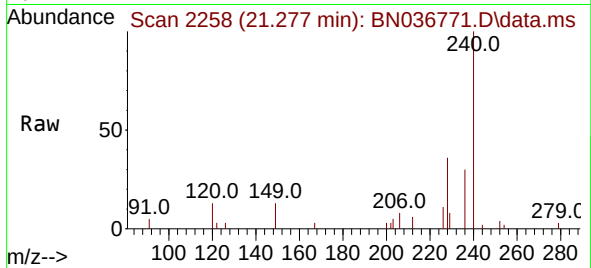




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

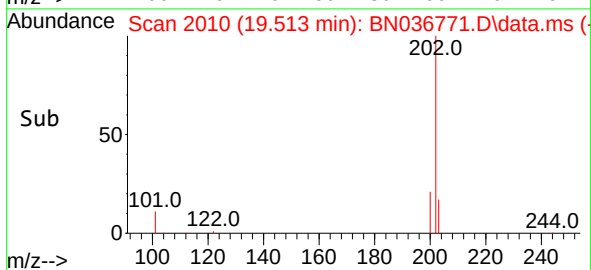
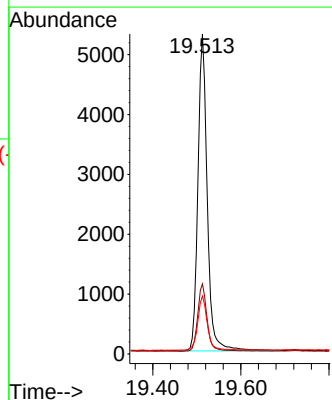
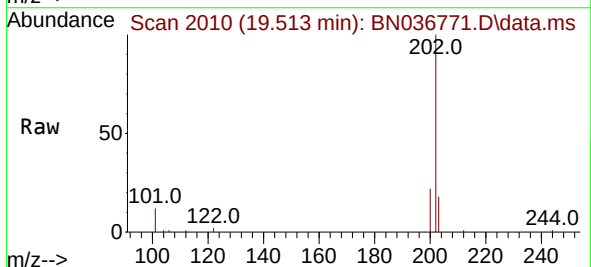
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

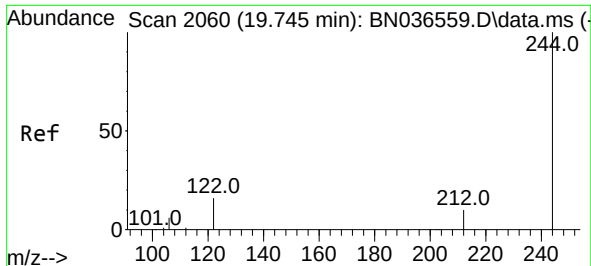
Tgt Ion:240 Resp: 4555
Ion Ratio Lower Upper
240 100
120 13.3 14.6 22.0#
236 30.0 24.1 36.1



#30
Pyrene
Concen: 0.350 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

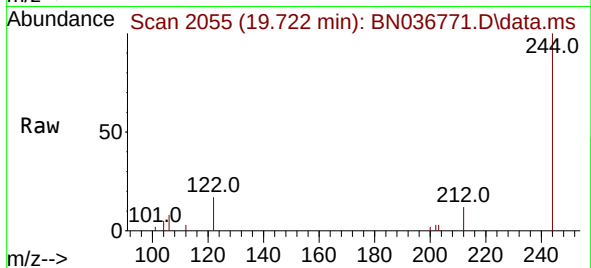
Tgt Ion:202 Resp: 7795
Ion Ratio Lower Upper
202 100
200 21.2 17.1 25.7
203 17.3 14.1 21.1



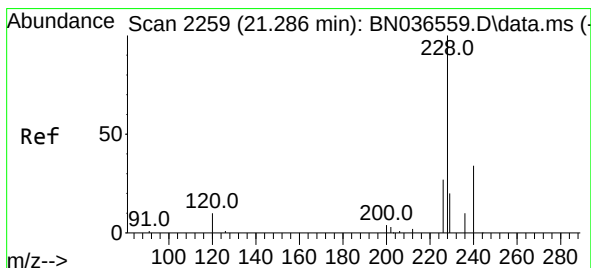
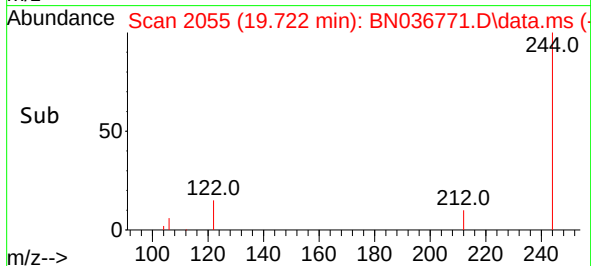
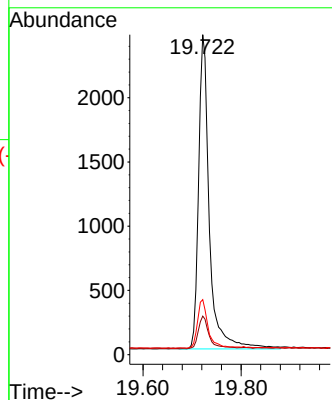


#31
 Terphenyl-d14
 Concen: 0.341 ng
 RT: 19.722 min Scan# 2060
 Delta R.T. -0.023 min
 Lab File: BN036771.D
 Acq: 28 Mar 2025 13:58

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

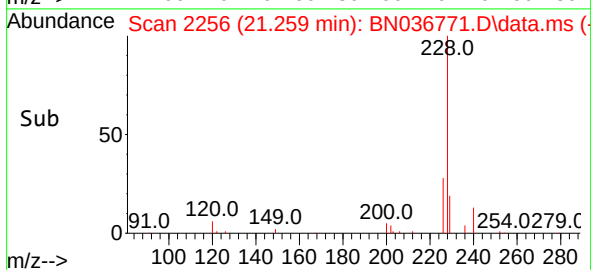
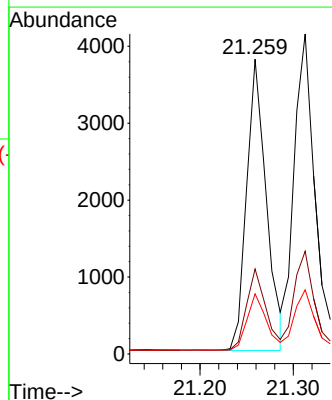
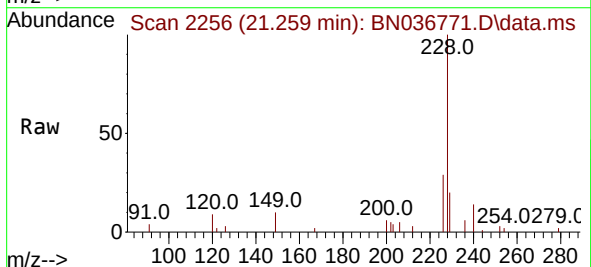


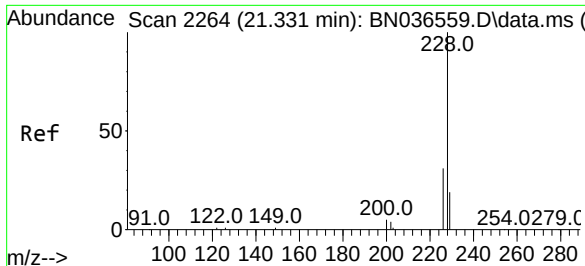
Tgt Ion:244 Resp: 3716
 Ion Ratio Lower Upper
 244 100
 212 12.0 9.6 14.4
 122 17.2 13.9 20.9



#32
 Benzo(a)anthracene
 Concen: 0.351 ng
 RT: 21.259 min Scan# 2256
 Delta R.T. -0.027 min
 Lab File: BN036771.D
 Acq: 28 Mar 2025 13:58

Tgt Ion:228 Resp: 5566
 Ion Ratio Lower Upper
 228 100
 226 28.8 22.5 33.7
 229 20.4 16.6 25.0

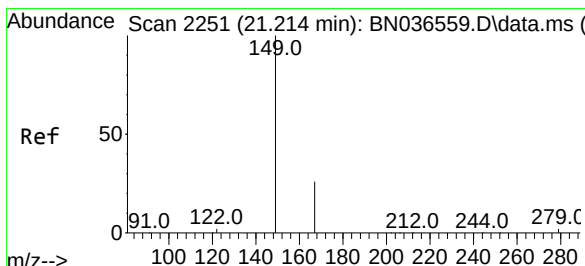
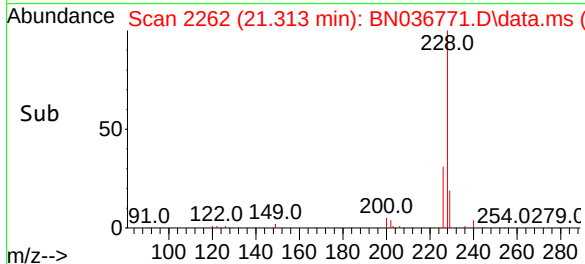
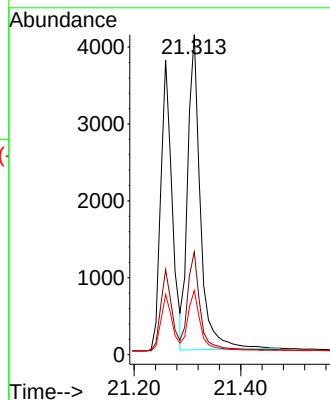
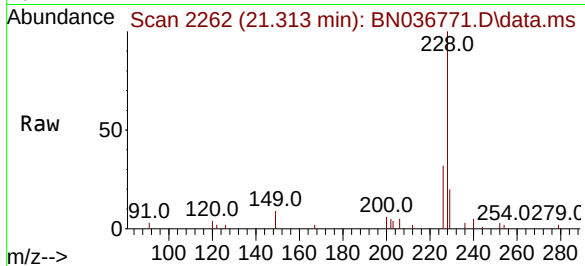




#33
Chrysene
Concen: 0.389 ng
RT: 21.313 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

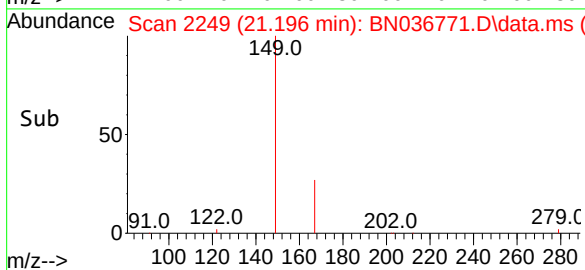
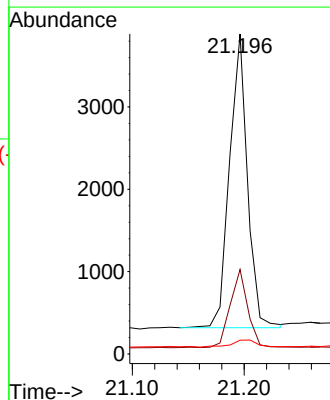
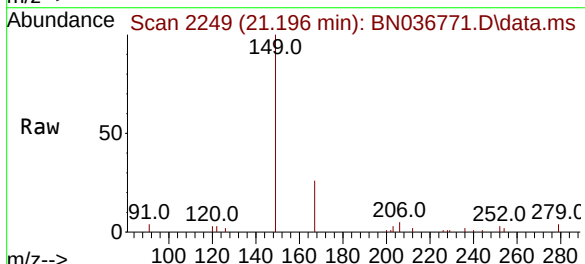
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

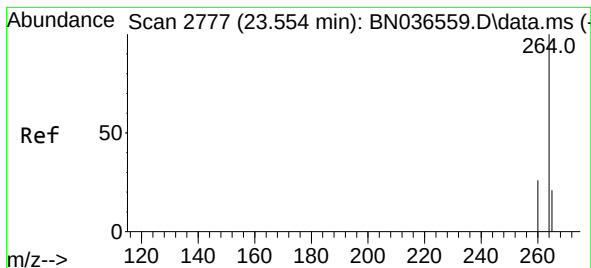
Tgt Ion:228 Resp: 6726
Ion Ratio Lower Upper
228 100
226 32.1 25.3 37.9
229 20.0 15.8 23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.352 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt Ion:149 Resp: 3968
Ion Ratio Lower Upper
149 100
167 26.1 20.7 31.1
279 3.3 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.516 min Scan# 21

Delta R.T. -0.038 min

Lab File: BN036771.D

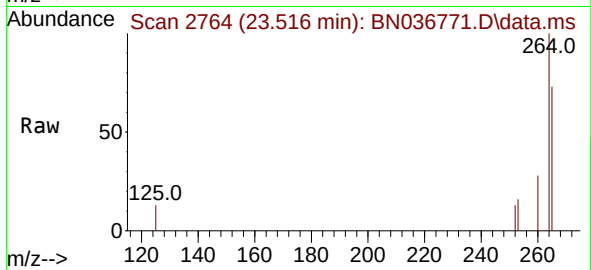
Acq: 28 Mar 2025 13:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



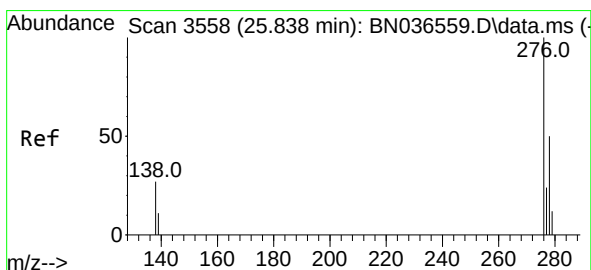
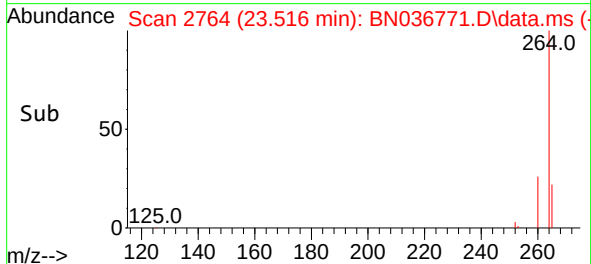
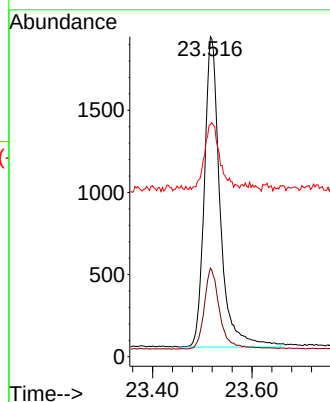
Tgt Ion:264 Resp: 4167

Ion Ratio Lower Upper

264 100

260 27.7 22.6 33.8

265 72.6 88.1 132.1#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.348 ng

RT: 25.782 min Scan# 3539

Delta R.T. -0.055 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

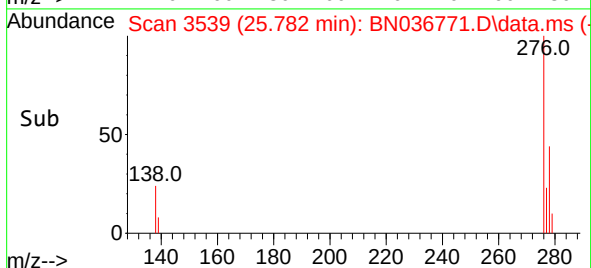
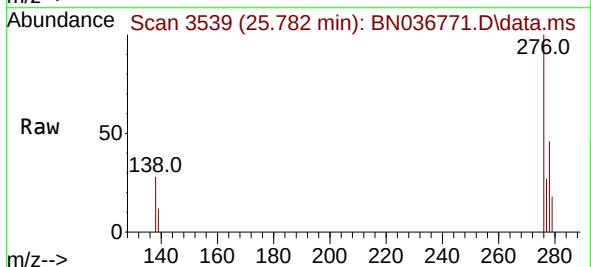
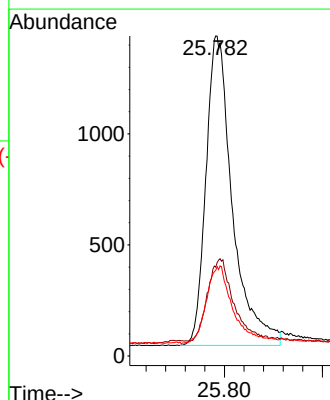
Tgt Ion:276 Resp: 5233

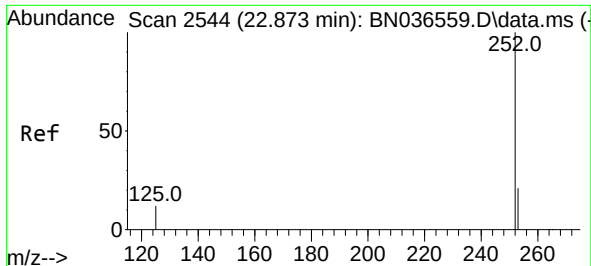
Ion Ratio Lower Upper

276 100

138 25.8 23.4 35.2

277 25.2 20.0 30.0

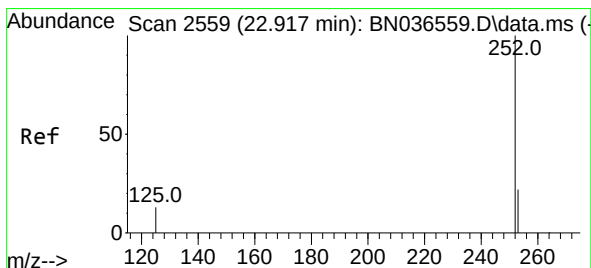
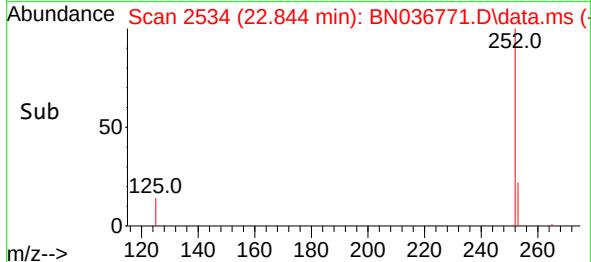
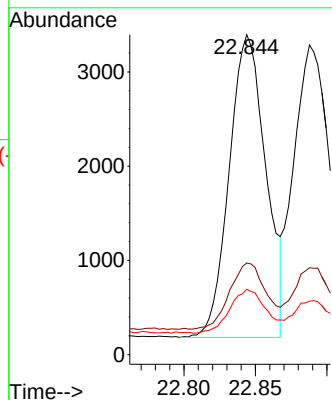
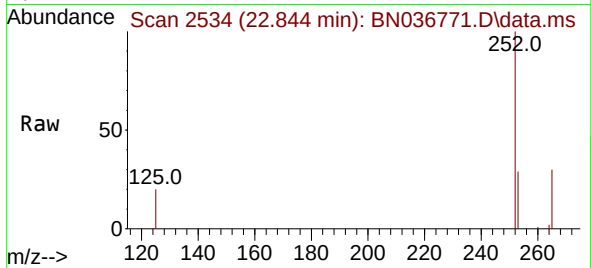




#37
Benzo(b)fluoranthene
Concen: 0.377 ng
RT: 22.844 min Scan# 2534
Delta R.T. -0.029 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

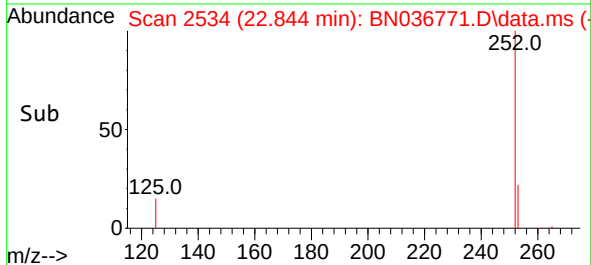
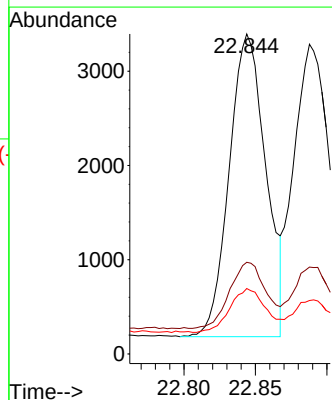
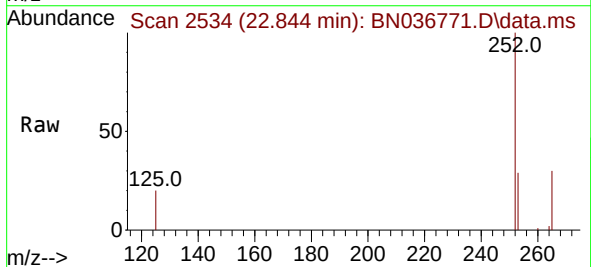
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

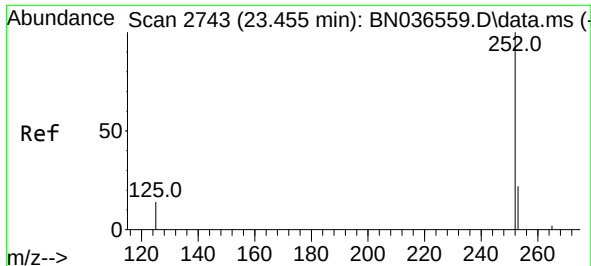
Tgt Ion:252	Resp:	5720	
Ion	Ratio	Lower	Upper
252	100		
253	28.6	23.9	35.9
125	20.5	17.4	26.2



#38
Benzo(k)fluoranthene
Concen: 0.360 ng
RT: 22.844 min Scan# 2534
Delta R.T. -0.073 min
Lab File: BN036771.D
Acq: 28 Mar 2025 13:58

Tgt	Ion:252	Resp:	5720
Ion	Ratio	Lower	Upper
252	100		
253	28.6	24.6	36.8
125	20.5	17.8	26.8





#39

Benzo(a)pyrene

Concen: 0.381 ng

RT: 23.420 min Scan# 21

Delta R.T. -0.035 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

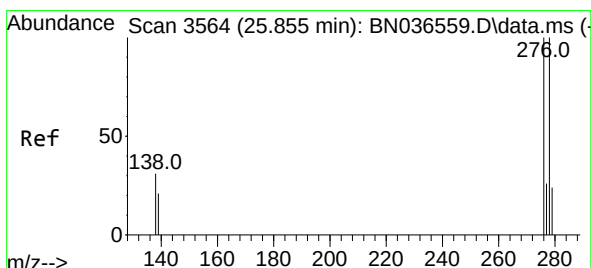
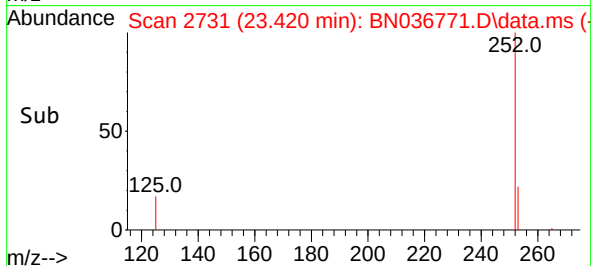
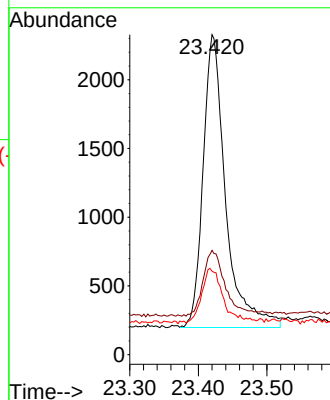
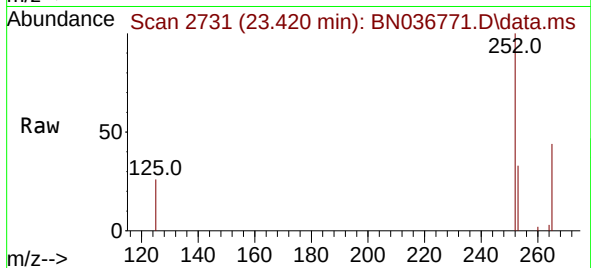
Tgt Ion:252 Resp: 4867

Ion Ratio Lower Upper

252 100

253 32.6 27.8 41.8

125 26.1 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.334 ng

RT: 25.800 min Scan# 3545

Delta R.T. -0.055 min

Lab File: BN036771.D

Acq: 28 Mar 2025 13:58

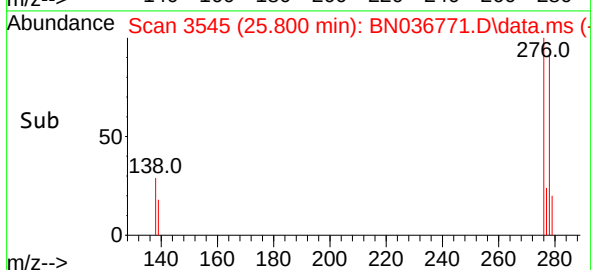
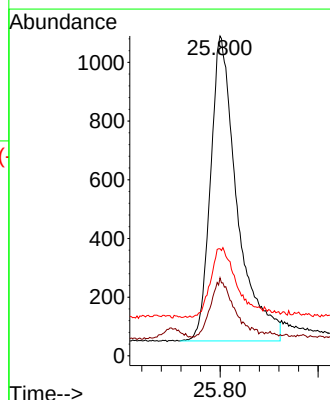
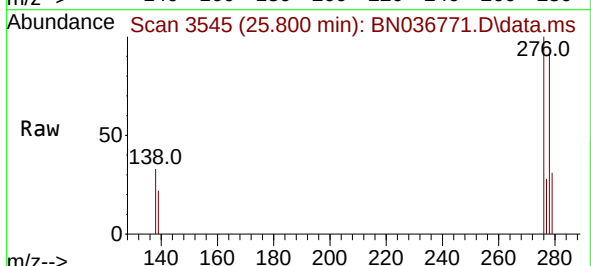
Tgt Ion:278 Resp: 3914

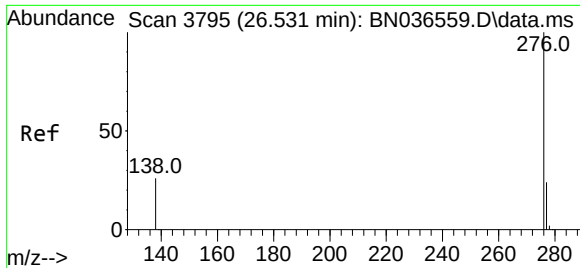
Ion Ratio Lower Upper

278 100

139 24.4 20.8 31.2

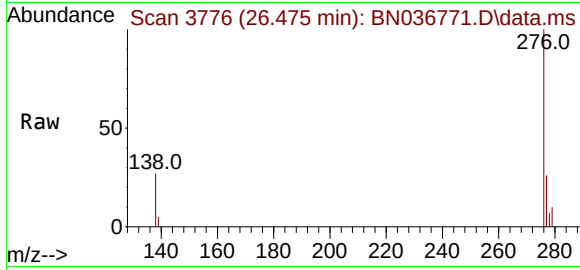
279 33.5 28.8 43.2





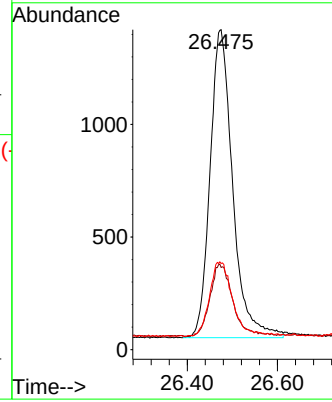
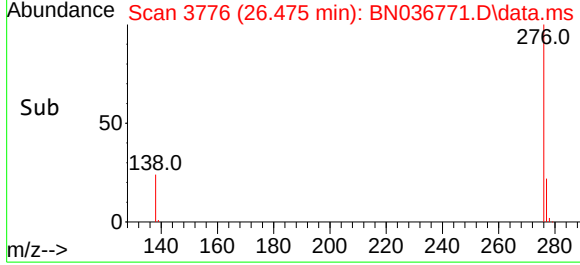
#41
 Benzo(g,h,i)perylene
 Concen: 0.355 ng
 RT: 26.475 min Scan# 31
 Delta R.T. -0.055 min
 Lab File: BN036771.D
 Acq: 28 Mar 2025 13:58

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



Tgt Ion:276 Resp: 4758

Ion	Ratio	Lower	Upper
276	100		
277	25.7	22.2	33.4
138	27.0	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
 Data File : BN036791.D
 Acq On : 29 Mar 2025 02:44
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Mar 29 04:28:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

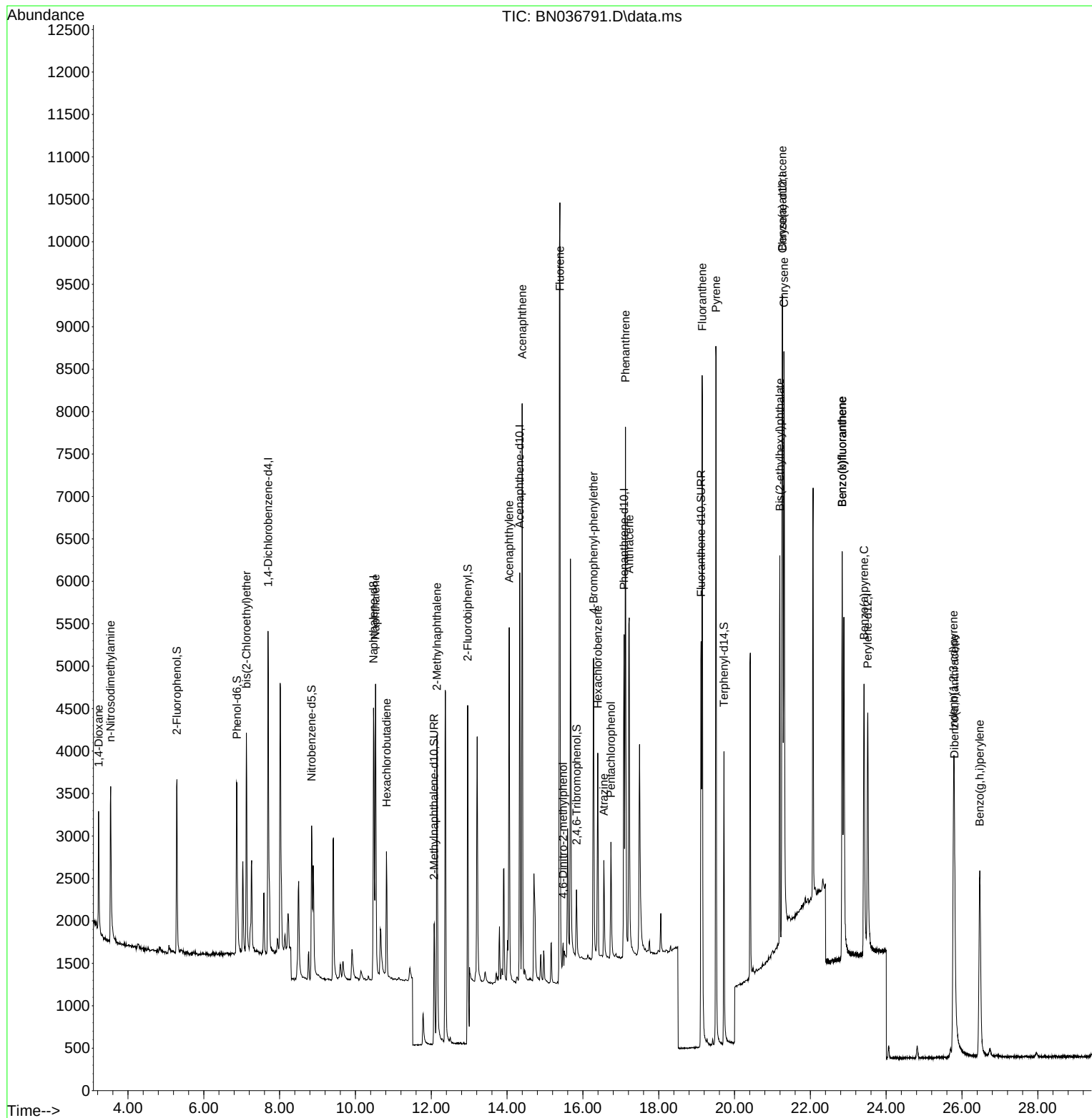
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1826	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	4490	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	2701	0.400	ng	-0.03
19) Phenanthrene-d10	17.087	188	5571	0.400	ng	-0.02
29) Chrysene-d12	21.268	240	4634	0.400	ng	-0.03
35) Perylene-d12	23.516	264	4032	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	1521	0.357	ng	-0.02
5) Phenol-d6	6.872	99	1838	0.350	ng	-0.03
8) Nitrobenzene-d5	8.843	82	1689	0.346	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2363	0.354	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	481	0.392	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	5513	0.351	ng	-0.03
27) Fluoranthene-d10	19.118	212	5751	0.403	ng	-0.02
31) Terphenyl-d14	19.722	244	3623	0.326	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.225	88	827	0.408	ng	Qvalue 98
3) n-Nitrosodimethylamine	3.543	42	1757	0.429	ng	91
6) bis(2-Chloroethyl)ether	7.125	93	1880	0.346	ng	99
9) Naphthalene	10.530	128	4740	0.359	ng	99
10) Hexachlorobutadiene	10.819	225	1160	0.373	ng	# 98
12) 2-Methylnaphthalene	12.151	142	3044	0.362	ng	98
16) Acenaphthylene	14.056	152	4532	0.356	ng	99
17) Acenaphthene	14.398	154	3064	0.367	ng	99
18) Fluorene	15.393	166	4209	0.373	ng	99
20) 4,6-Dinitro-2-methylph...	15.478	198	395	0.423	ng	# 76
21) 4-Bromophenyl-phenylether	16.280	248	1353	0.388	ng	96
22) Hexachlorobenzene	16.391	284	1582	0.375	ng	97
23) Atrazine	16.553	200	1090	0.389	ng	97
24) Pentachlorophenol	16.739	266	740	0.385	ng	98
25) Phenanthrene	17.124	178	6416	0.384	ng	99
26) Anthracene	17.223	178	5669	0.376	ng	100
28) Fluoranthene	19.146	202	7784	0.415	ng	99
30) Pyrene	19.513	202	7947	0.351	ng	100
32) Benzo(a)anthracene	21.259	228	5842	0.363	ng	100
33) Chrysene	21.304	228	6781	0.385	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	4355	0.380	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.779	276	5407	0.372	ng	94
37) Benzo(b)fluoranthene	22.841	252	5627	0.383	ng	97
38) Benzo(k)fluoranthene	22.841	252	5627	0.366	ng	96
39) Benzo(a)pyrene	23.417	252	4993	0.404	ng	95
40) Dibenzo(a,h)anthracene	25.800	278	4150	0.366	ng	93
41) Benzo(g,h,i)perylene	26.469	276	4876	0.376	ng	95

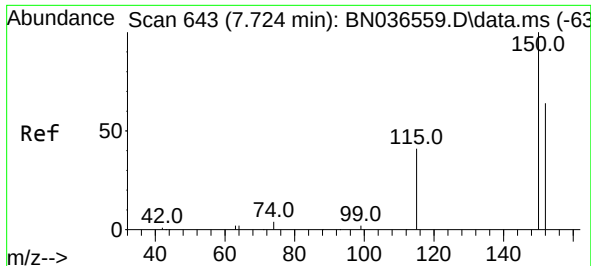
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036791.D
Acq On : 29 Mar 2025 02:44
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 29 04:28:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration

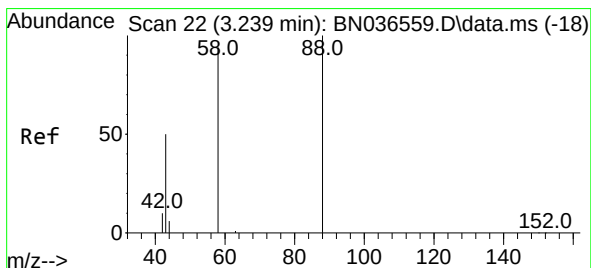
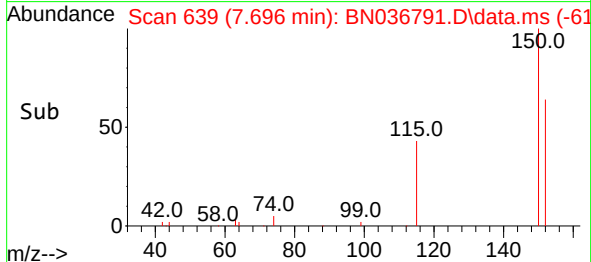
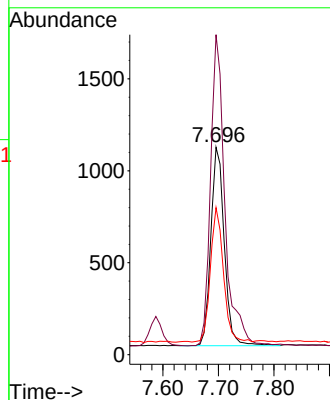
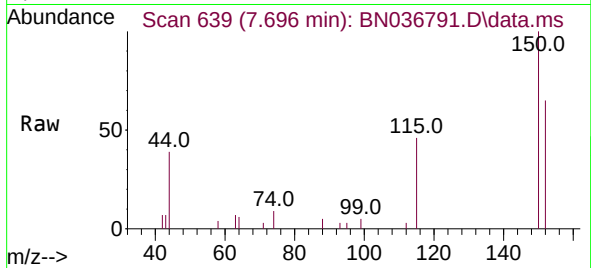




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.696 min Scan# 61
 Delta R.T. -0.028 min
 Lab File: BN036791.D
 Acq: 29 Mar 2025 02:44

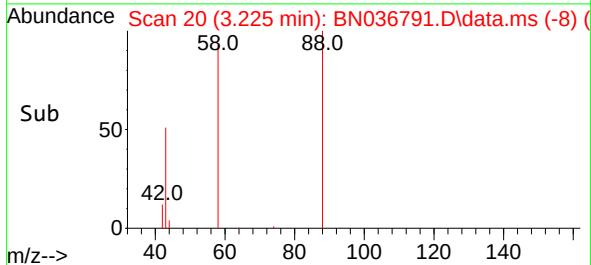
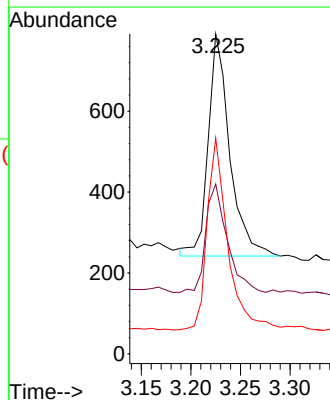
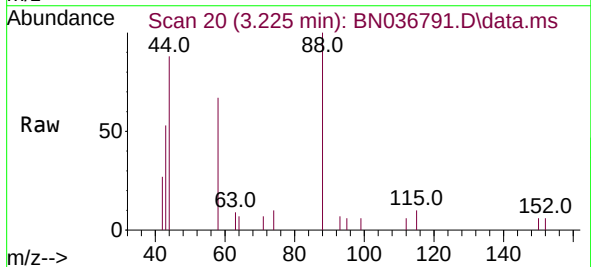
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

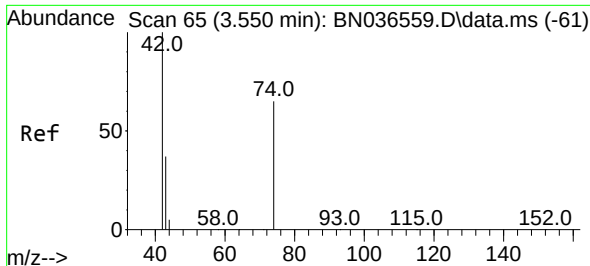
Tgt Ion:152 Resp: 1826
 Ion Ratio Lower Upper
 152 100
 150 154.3 123.7 185.5
 115 70.9 54.3 81.5



#2
 1,4-Dioxane
 Concen: 0.408 ng
 RT: 3.225 min Scan# 20
 Delta R.T. -0.014 min
 Lab File: BN036791.D
 Acq: 29 Mar 2025 02:44

Tgt Ion: 88 Resp: 827
 Ion Ratio Lower Upper
 88 100
 43 48.5 37.8 56.8
 58 83.0 67.4 101.2

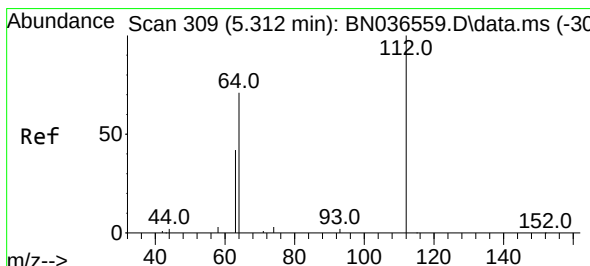
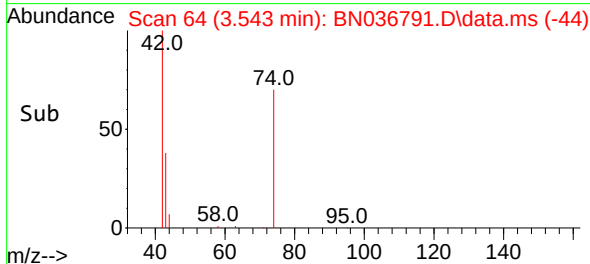
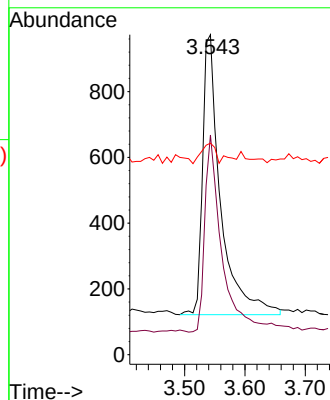
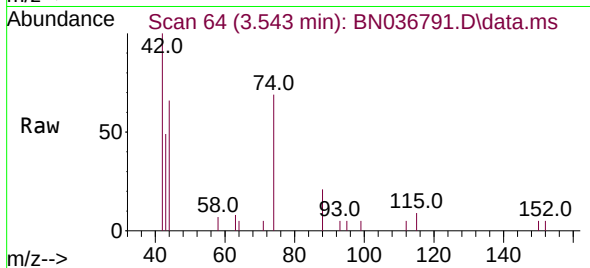




#3
n-Nitrosodimethylamine
Concen: 0.429 ng
RT: 3.543 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

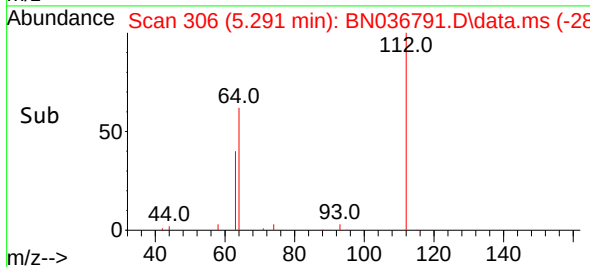
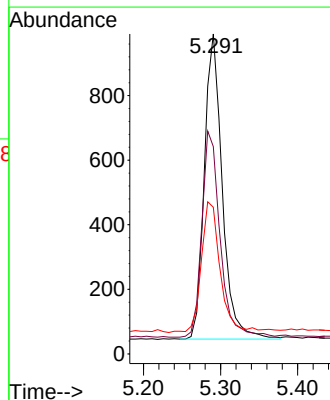
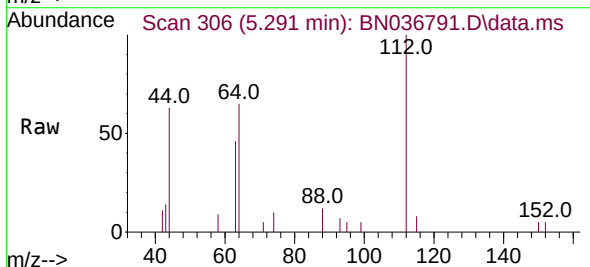
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

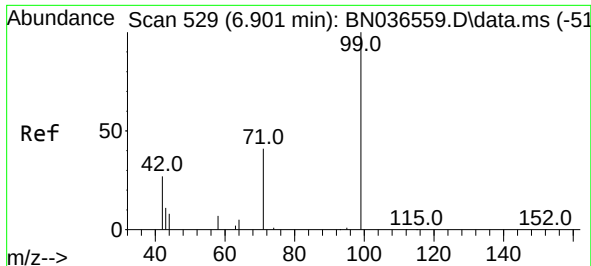
Tgt Ion: 42 Resp: 1757
Ion Ratio Lower Upper
42 100
74 67.4 60.6 90.8
44 6.6 6.3 9.5



#4
2-Fluorophenol
Concen: 0.357 ng
RT: 5.291 min Scan# 306
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion: 112 Resp: 1521
Ion Ratio Lower Upper
112 100
64 68.8 53.1 79.7
63 46.2 31.8 47.8

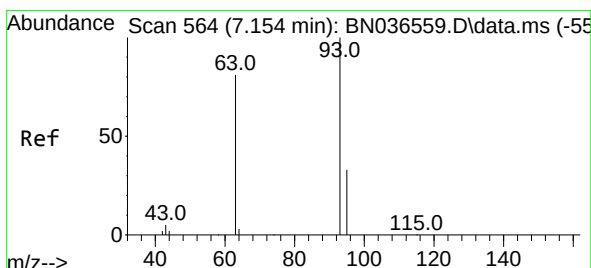
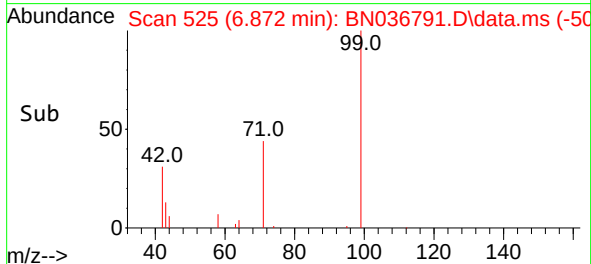
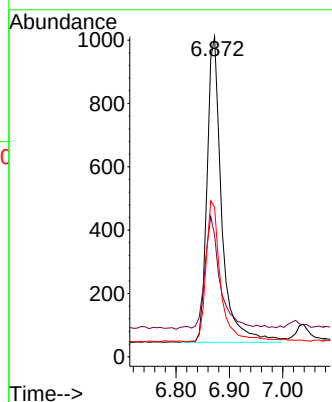
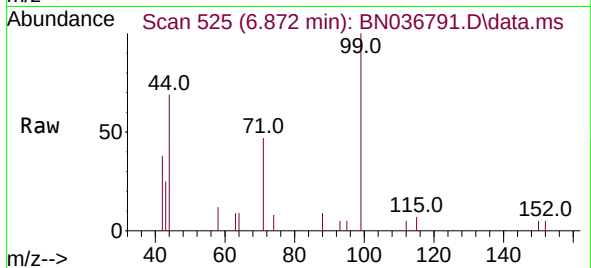




#5
Phenol-d6
Concen: 0.350 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.029 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

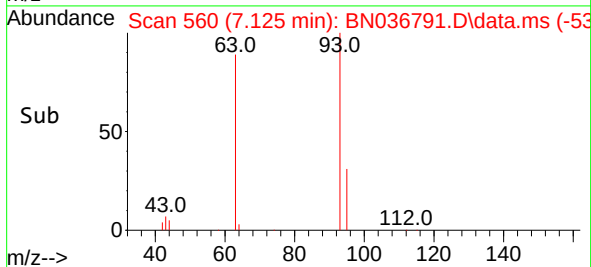
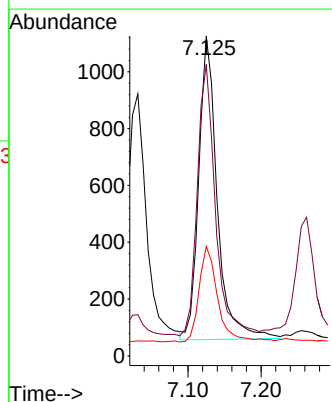
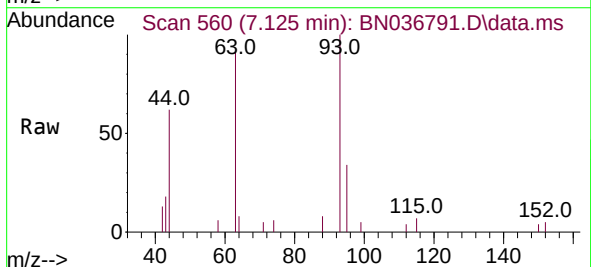
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

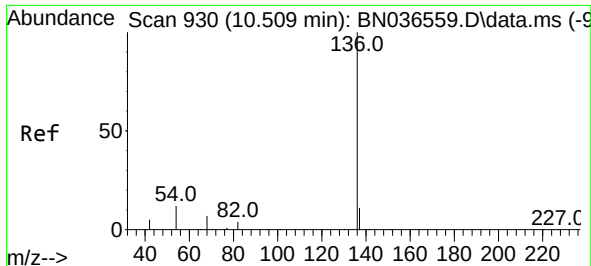
Tgt Ion:	99	Resp:	1838
Ion	Ratio	Lower	Upper
99	100		
42	38.7	26.5	39.7
71	46.1	34.1	51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.346 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:	93	Resp:	1880
Ion	Ratio	Lower	Upper
93	100		
63	85.9	67.7	101.5
95	31.5	25.6	38.4

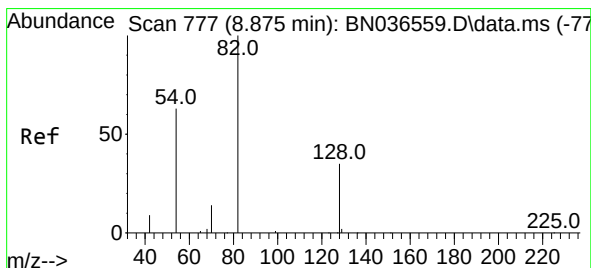
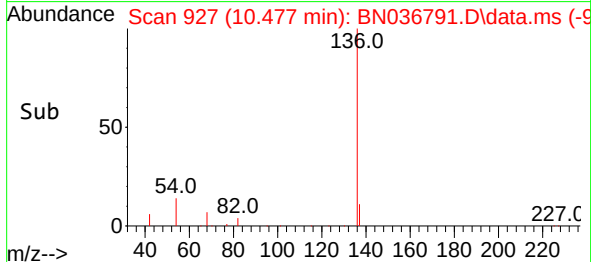
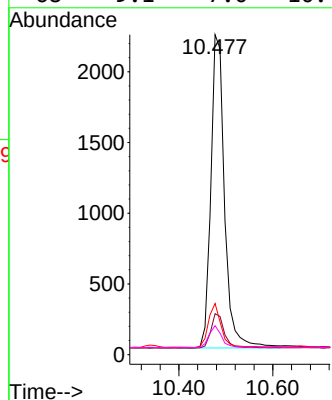
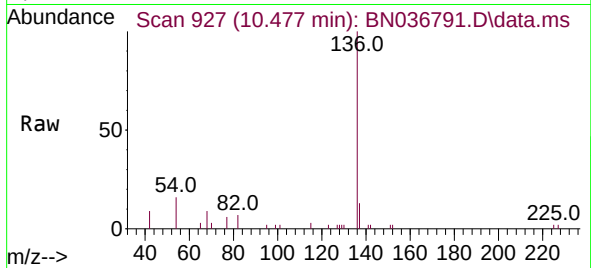




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

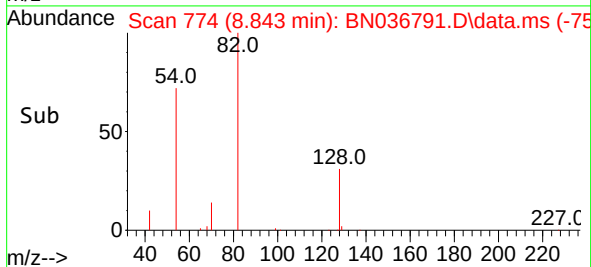
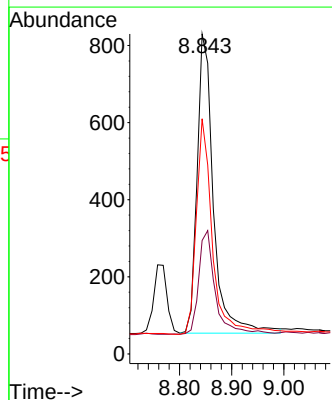
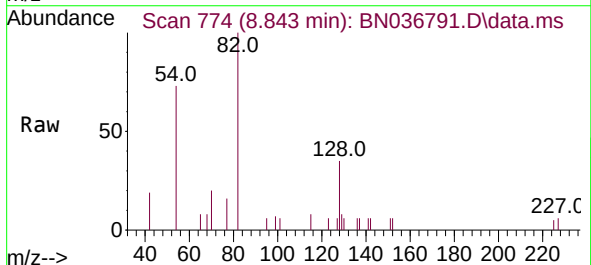
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

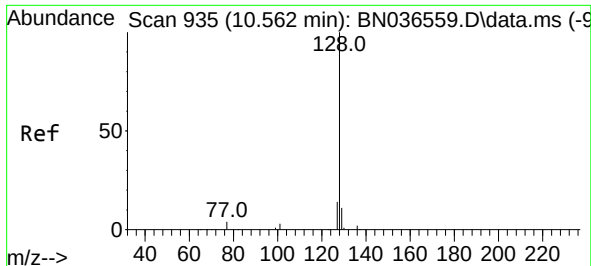
Tgt Ion:	136	Resp:	4490
Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.3	15.5
54	16.0	11.5	17.3
68	9.1	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:	82	Resp:	1689
Ion	Ratio	Lower	Upper
82	100		
128	35.4	30.6	45.8
54	73.5	52.2	78.4

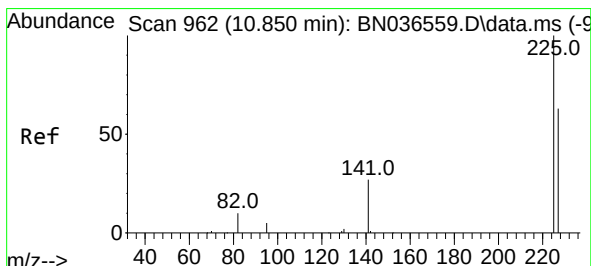
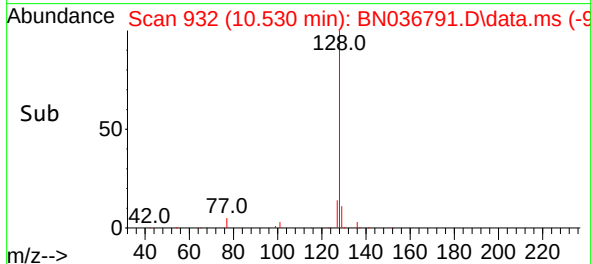
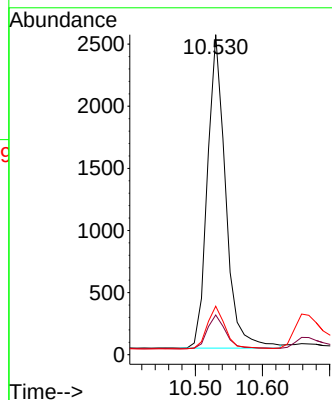
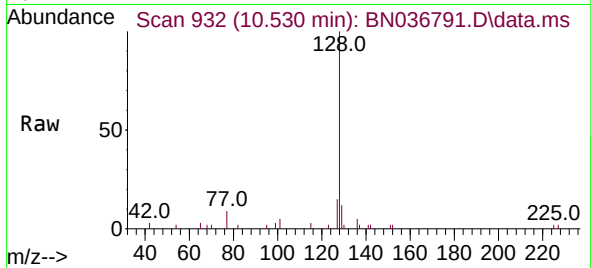




#9
Naphthalene
Concen: 0.359 ng
RT: 10.530 min Scan# 911
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

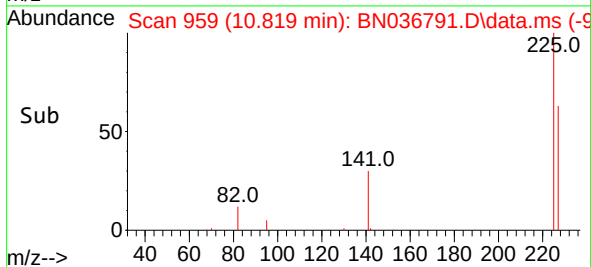
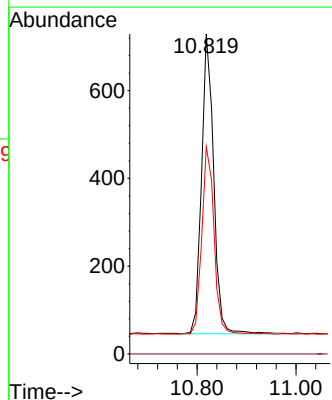
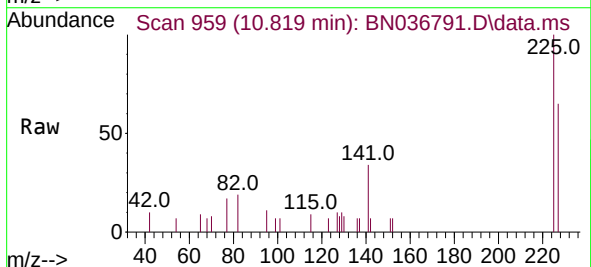
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

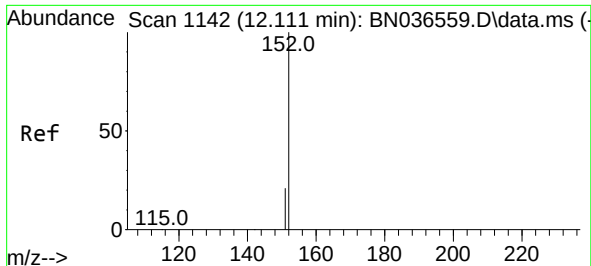
Tgt Ion:	128	Resp:	4740
Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	15.2	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.373 ng
RT: 10.819 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:	225	Resp:	1160
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	51.8	77.8

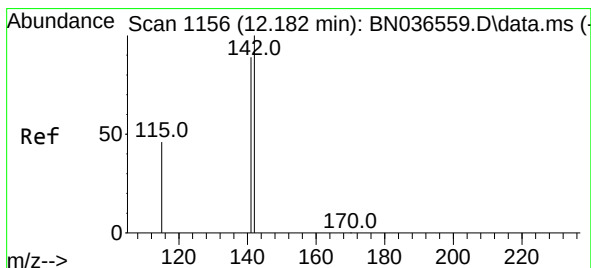
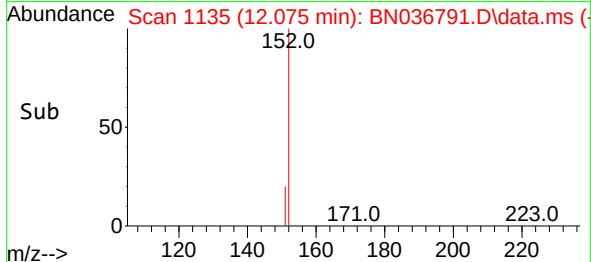
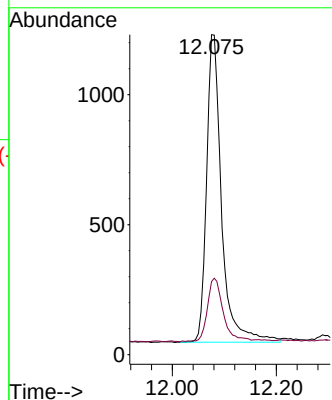
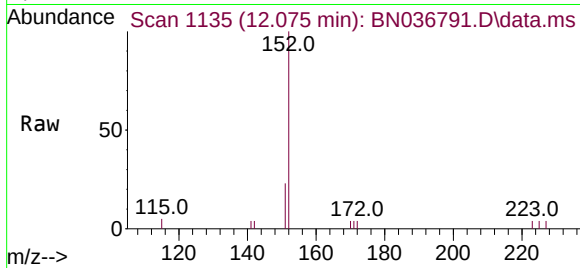




#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.075 min Scan# 1142
Delta R.T. -0.035 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

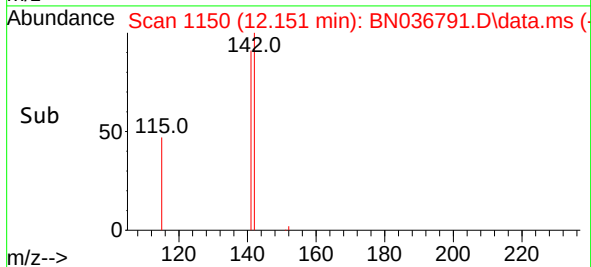
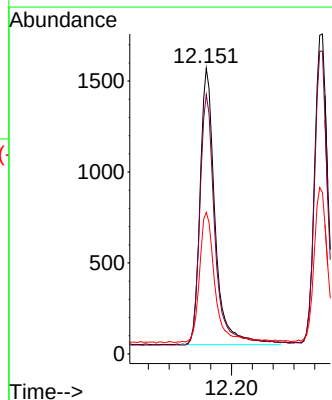
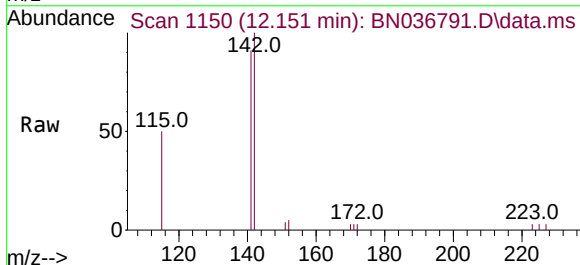
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

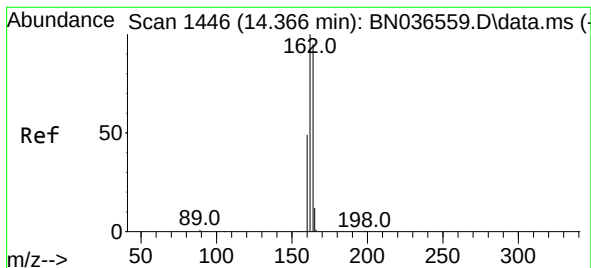
Tgt Ion:152 Resp: 2363
Ion Ratio Lower Upper
152 100
151 21.9 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.362 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:142 Resp: 3044
Ion Ratio Lower Upper
142 100
141 90.8 71.7 107.5
115 49.5 38.3 57.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.334 min Scan# 1443

Delta R.T. -0.032 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

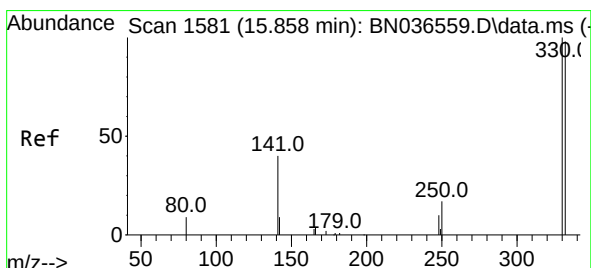
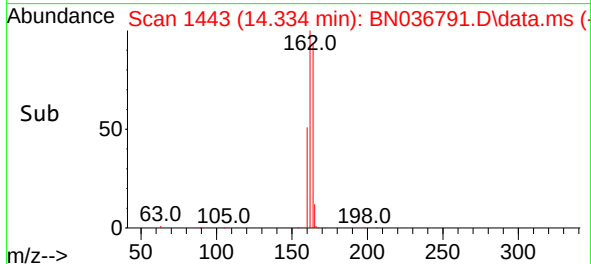
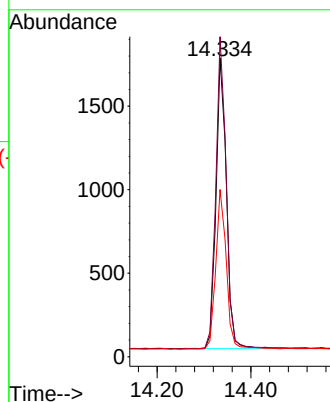
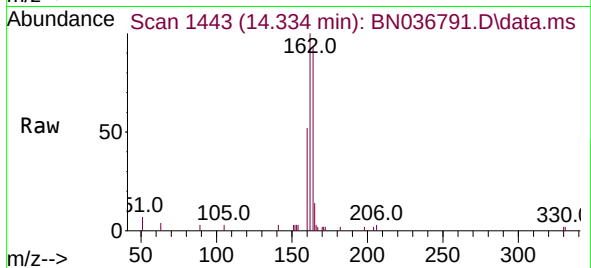
Tgt Ion:164 Resp: 2701

Ion Ratio Lower Upper

164 100

162 107.1 84.2 126.2

160 56.0 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.392 ng

RT: 15.833 min Scan# 1579

Delta R.T. -0.025 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

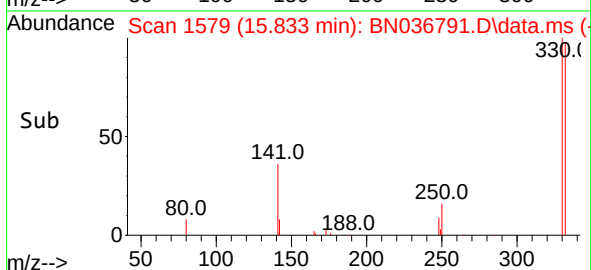
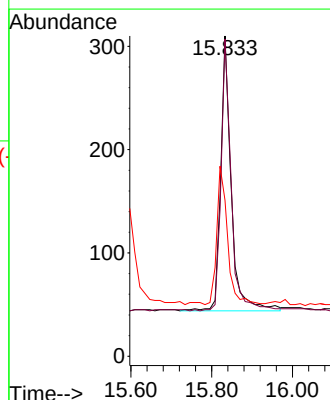
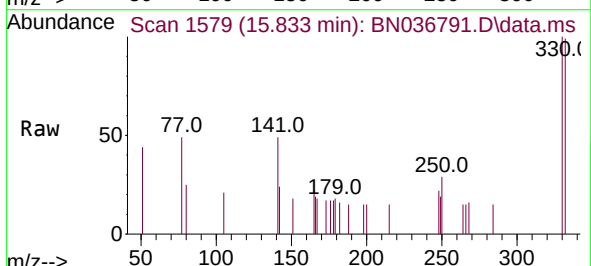
Tgt Ion:330 Resp: 481

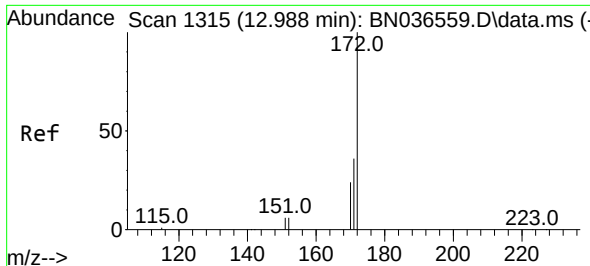
Ion Ratio Lower Upper

330 100

332 94.4 75.2 112.8

141 51.4 43.4 65.2

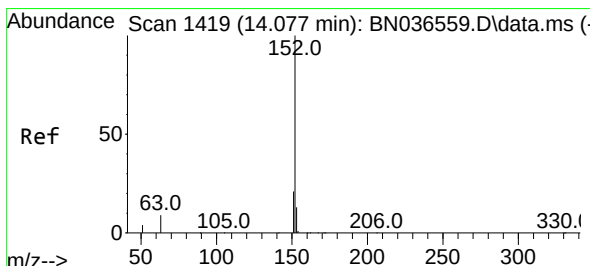
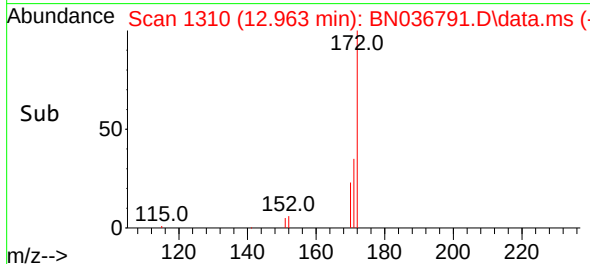
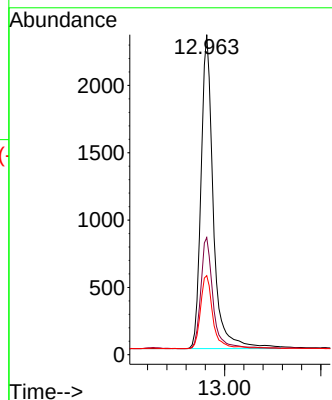
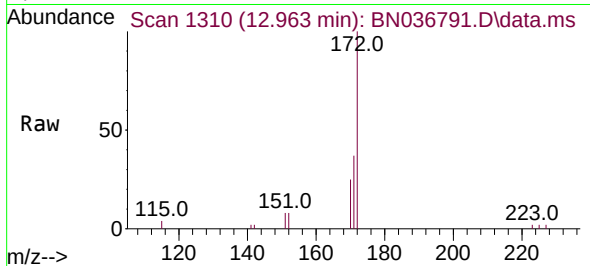




#15
2-Fluorobiphenyl
Concen: 0.351 ng
RT: 12.963 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

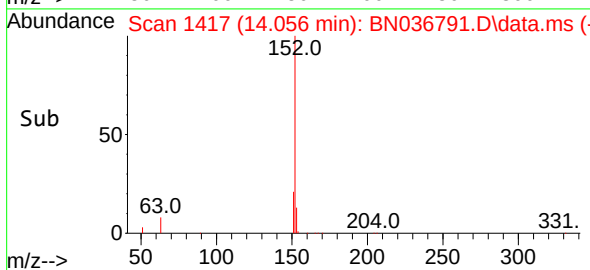
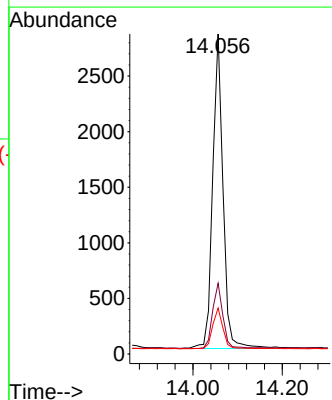
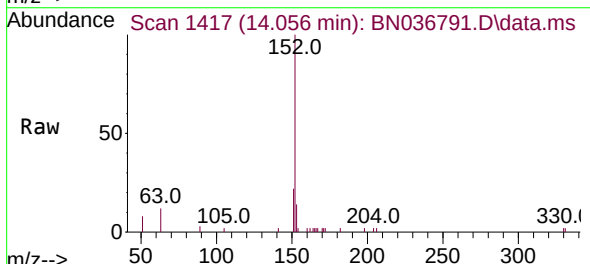
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

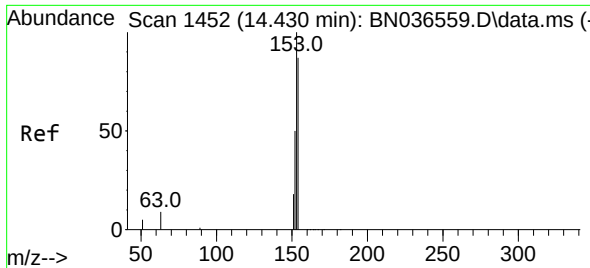
Tgt Ion:172	Resp:	5513
Ion Ratio	Lower	Upper
172	100	
171	36.6	29.5 44.3
170	24.7	20.2 30.4



#16
Acenaphthylene
Concen: 0.356 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:152	Resp:	4532
Ion Ratio	Lower	Upper
152	100	
151	21.1	16.2 24.4
153	13.0	10.6 15.8

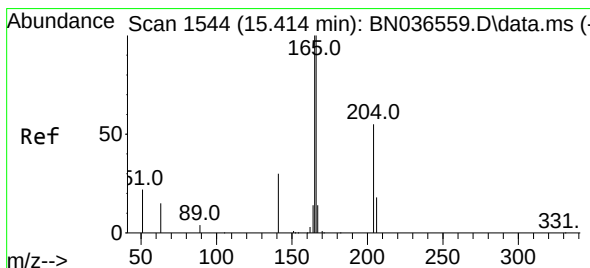
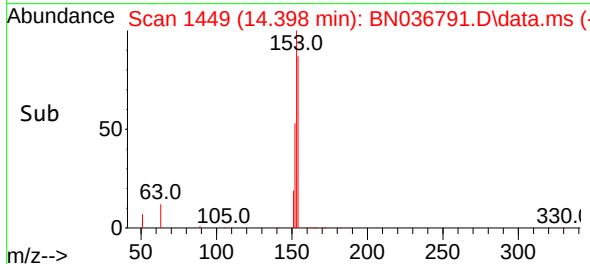
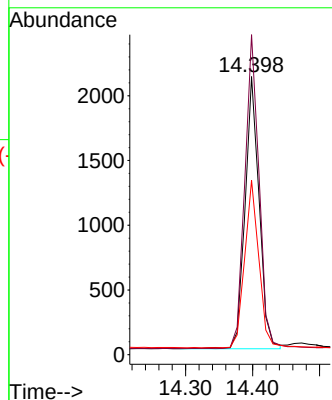
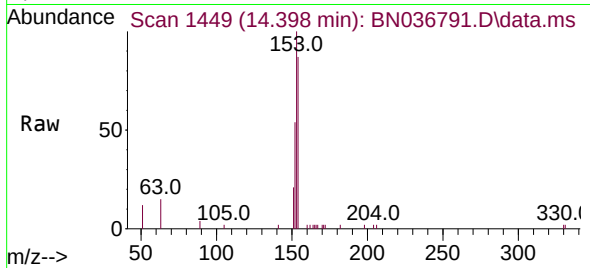




#17
Acenaphthene
Concen: 0.367 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

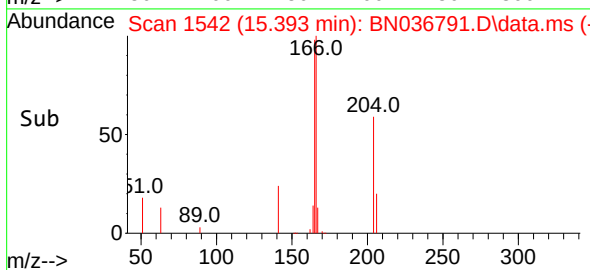
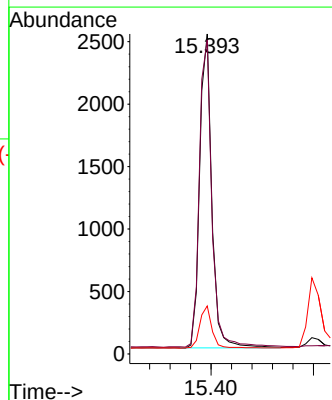
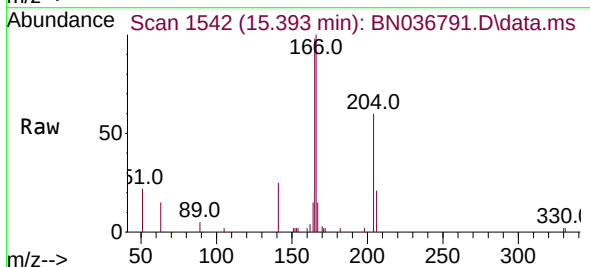
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

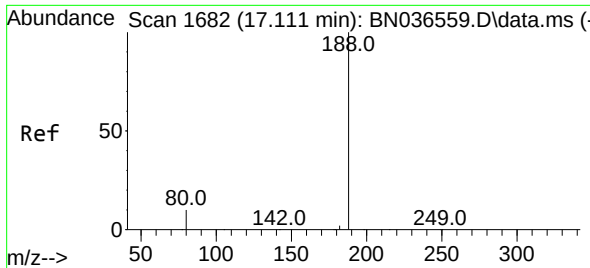
Tgt Ion:154 Resp: 3064
Ion Ratio Lower Upper
154 100
153 118.0 94.1 141.1
152 62.9 49.8 74.6



#18
Fluorene
Concen: 0.373 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:166 Resp: 4209
Ion Ratio Lower Upper
166 100
165 101.0 79.8 119.8
167 13.4 10.6 15.8

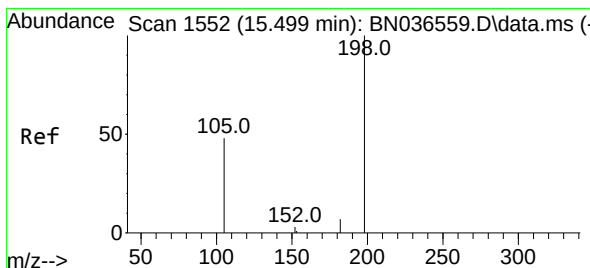
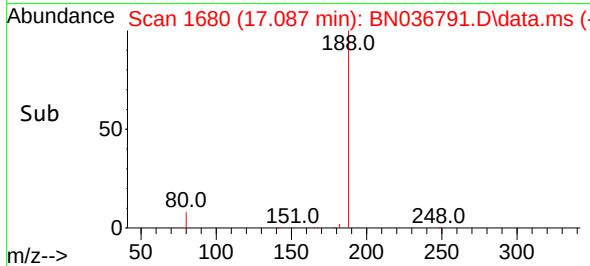
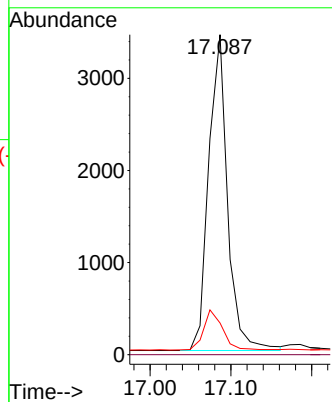
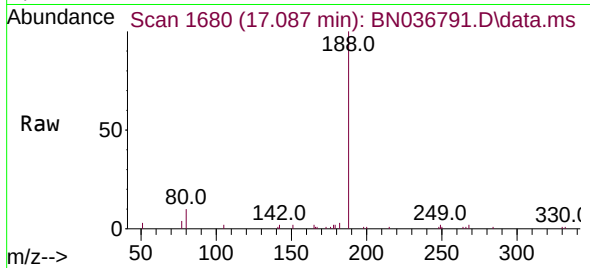




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

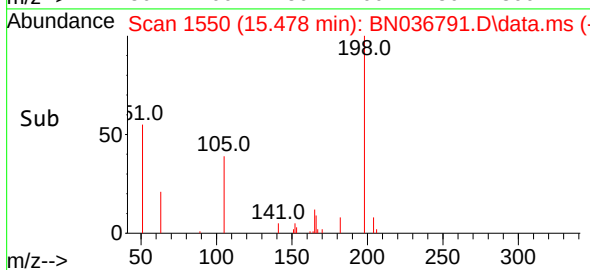
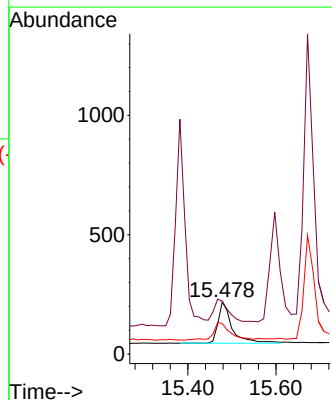
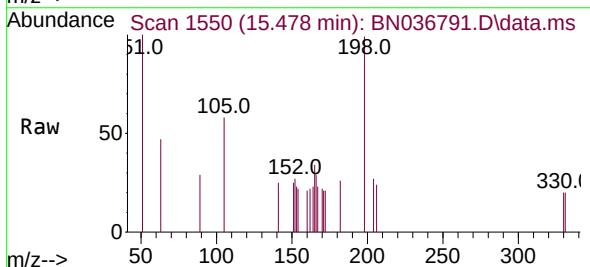
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

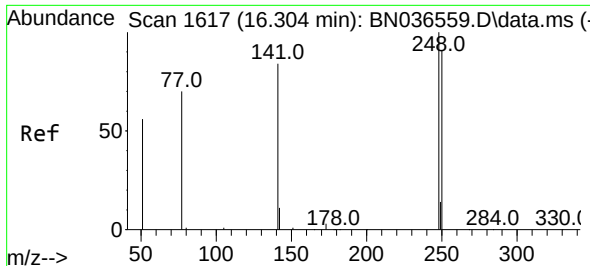
Tgt Ion:188	Resp:	5571
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	9.9	8.8



#20
4,6-Dinitro-2-methylphenol
Concen: 0.423 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:198	Resp:	395
Ion Ratio	Lower	Upper
198	100	
51	100.9	107.9
105	58.4	56.2

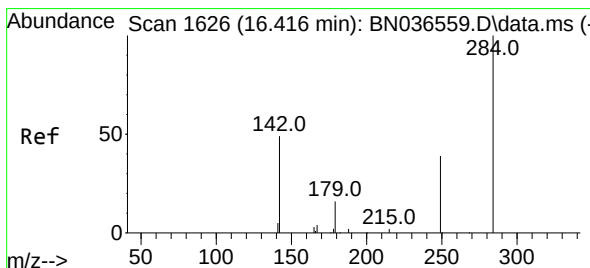
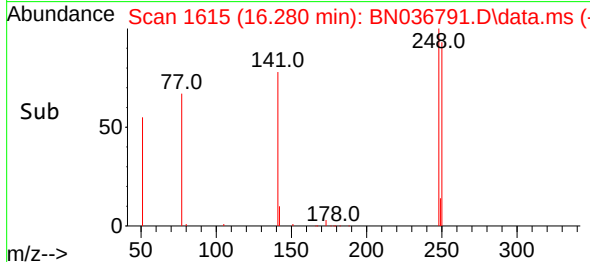
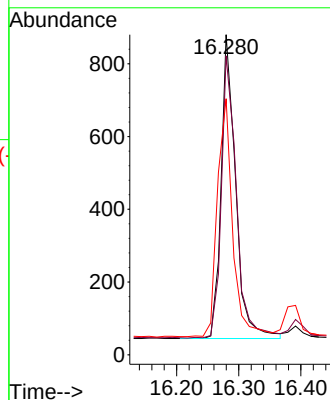
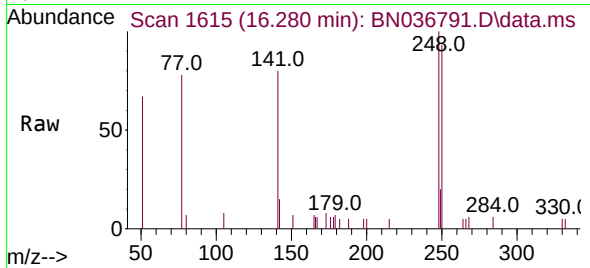




#21
4-Bromophenyl-phenylether
Concen: 0.388 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

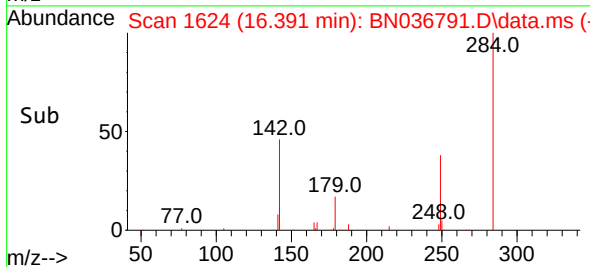
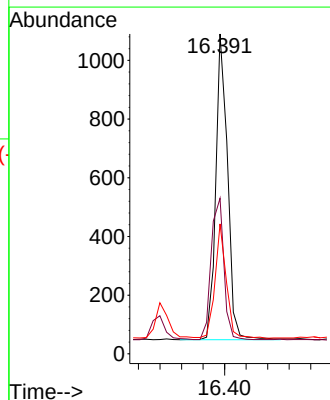
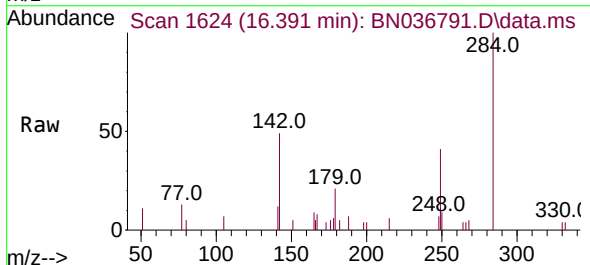
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

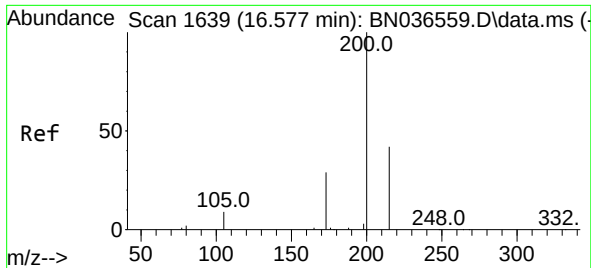
Tgt Ion:248	Resp:	1353
Ion Ratio	Lower	Upper
248	100	
250	93.4	73.0 109.6
141	80.0	68.6 103.0



#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:284	Resp:	1582
Ion Ratio	Lower	Upper
284	100	
142	49.7	37.0 55.4
249	35.6	28.1 42.1

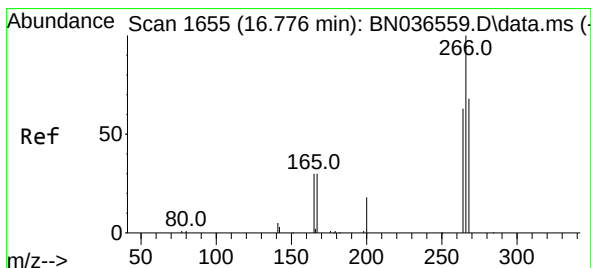
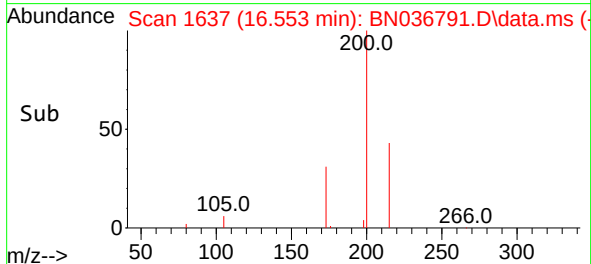
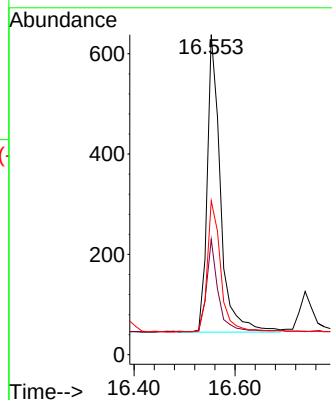
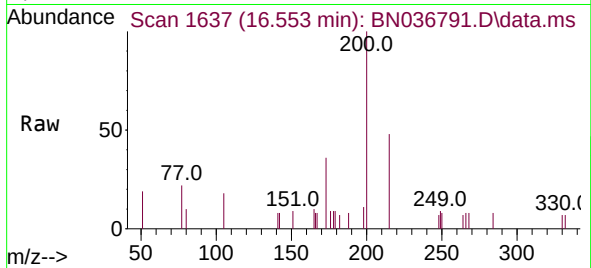




#23
Atrazine
Concen: 0.389 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.025 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

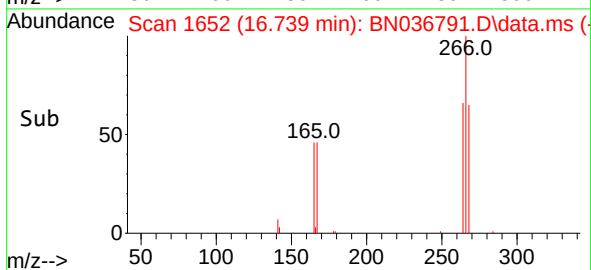
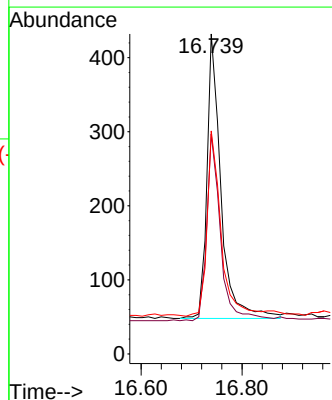
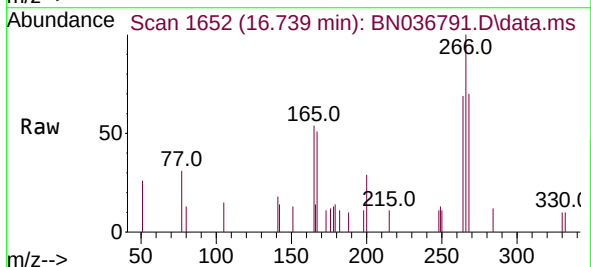
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

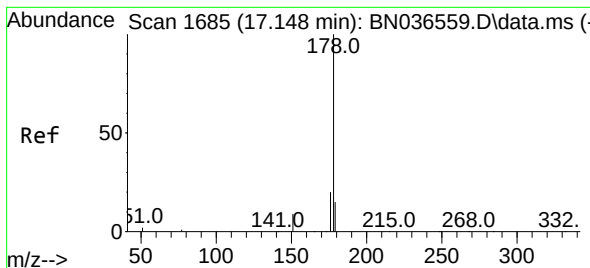
Tgt Ion:200 Resp: 1090
Ion Ratio Lower Upper
200 100
173 36.1 27.3 40.9
215 48.1 36.8 55.2



#24
Pentachlorophenol
Concen: 0.385 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:266 Resp: 740
Ion Ratio Lower Upper
266 100
264 64.5 49.6 74.4
268 64.9 50.9 76.3





#25

Phenanthrene

Concen: 0.384 ng

RT: 17.124 min Scan# 1683

Delta R.T. -0.025 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

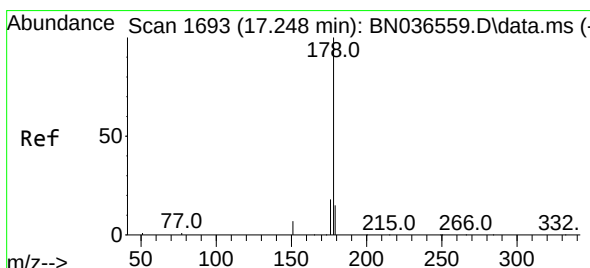
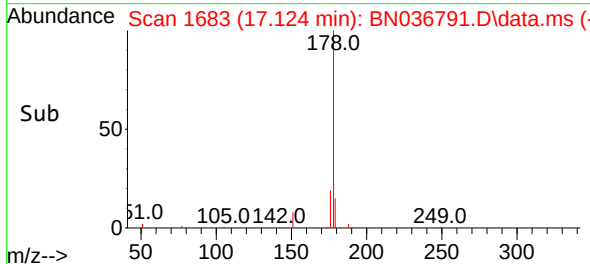
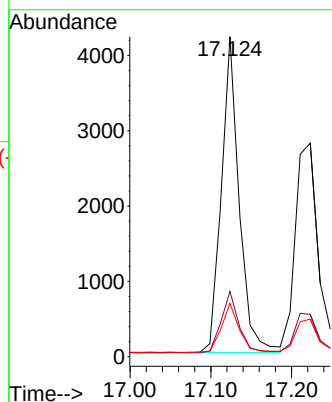
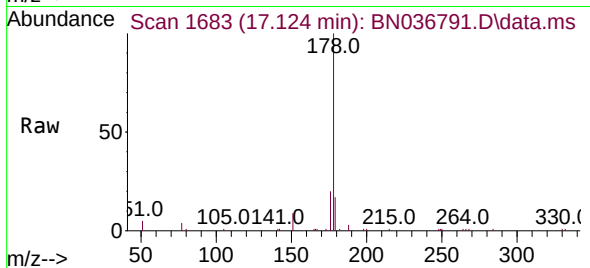
Tgt Ion:178 Resp: 6416

Ion Ratio Lower Upper

178 100

176 19.3 15.9 23.9

179 16.0 12.2 18.4



#26

Anthracene

Concen: 0.376 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.025 min

Lab File: BN036791.D

Acq: 29 Mar 2025 02:44

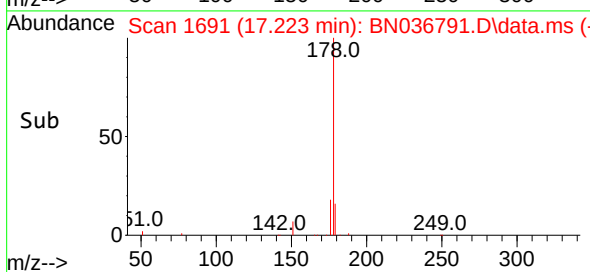
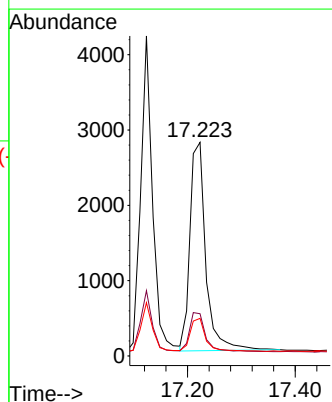
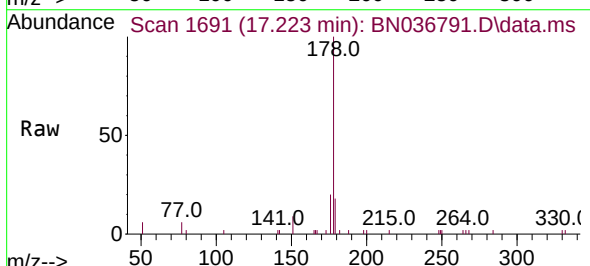
Tgt Ion:178 Resp: 5669

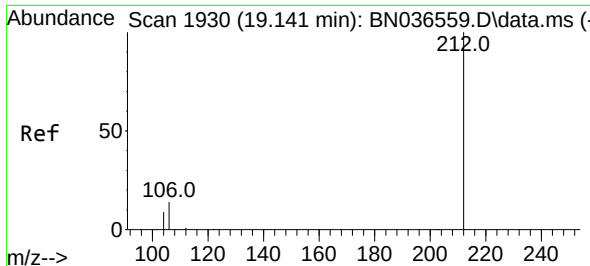
Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.2

179 15.5 12.6 18.8

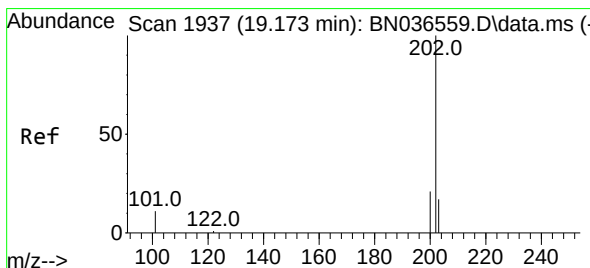
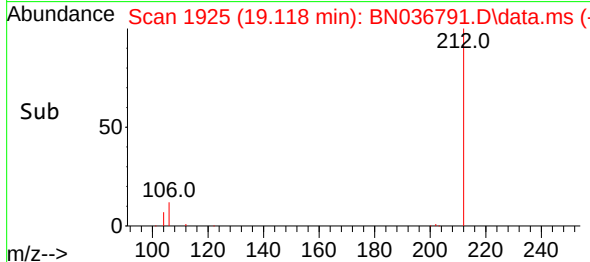
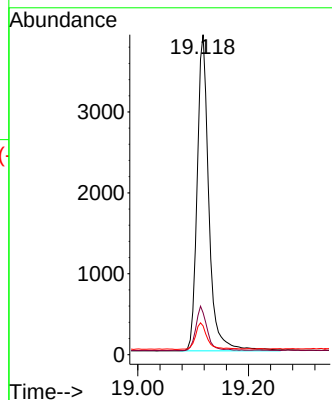
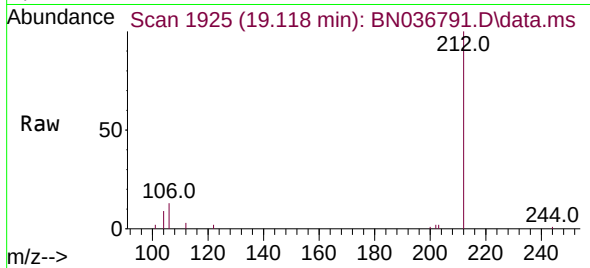




#27
Fluoranthene-d10
Concen: 0.403 ng
RT: 19.118 min Scan# 1911
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

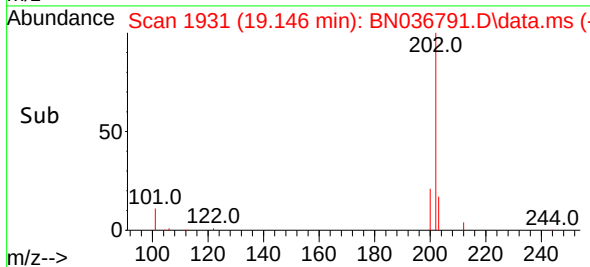
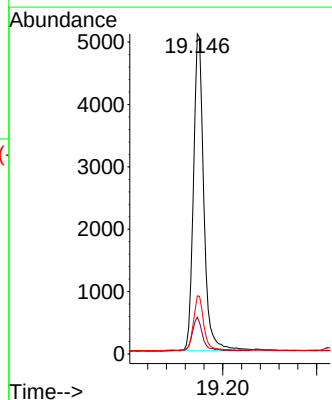
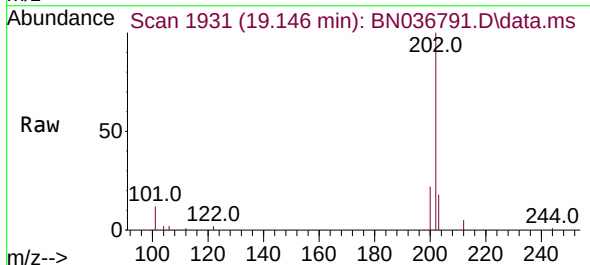
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

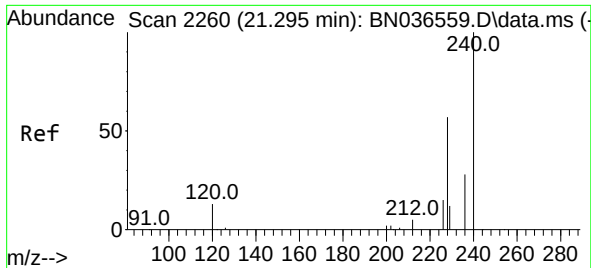
Tgt Ion:212 Resp: 5751
Ion Ratio Lower Upper
212 100
106 13.2 11.8 17.6
104 8.6 7.3 10.9



#28
Fluoranthene
Concen: 0.415 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:202 Resp: 7784
Ion Ratio Lower Upper
202 100
101 10.4 9.4 14.0
203 16.9 13.5 20.3

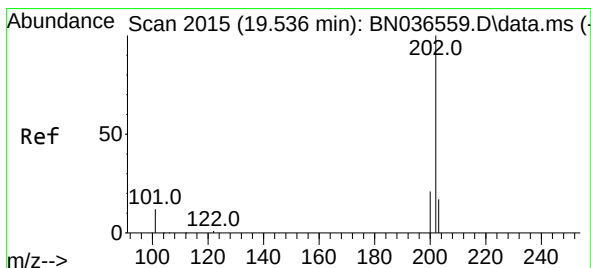
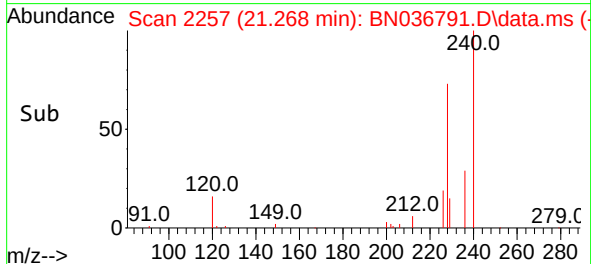
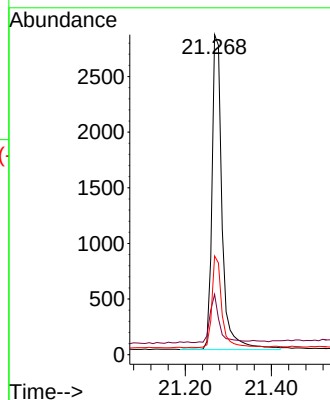
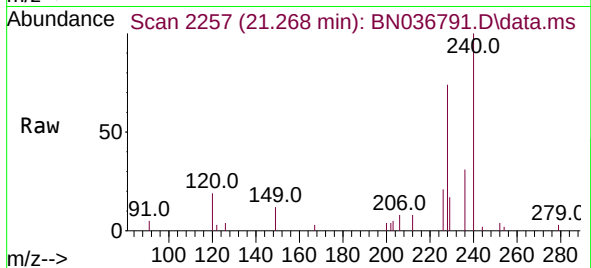




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 21
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

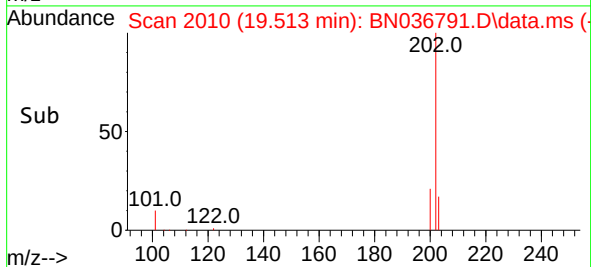
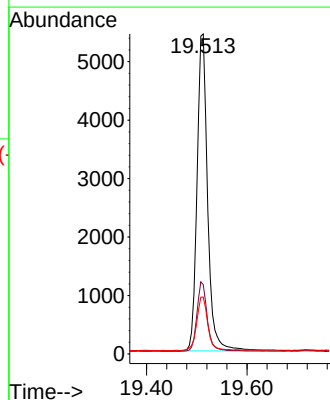
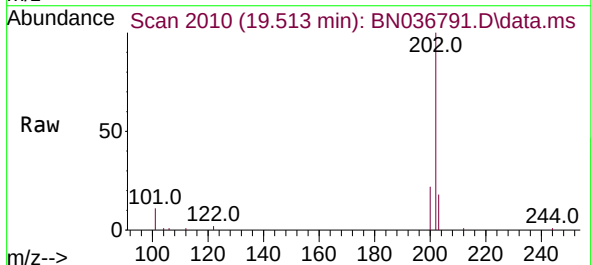
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

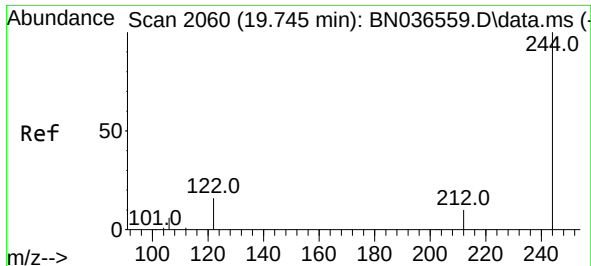
Tgt Ion:240 Resp: 4634
Ion Ratio Lower Upper
240 100
120 18.8 14.6 22.0
236 30.8 24.1 36.1



#30
Pyrene
Concen: 0.351 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:202 Resp: 7947
Ion Ratio Lower Upper
202 100
200 21.4 17.1 25.7
203 17.5 14.1 21.1

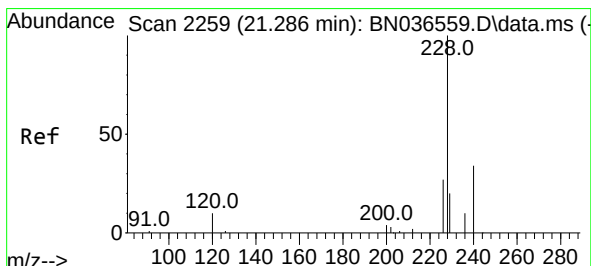
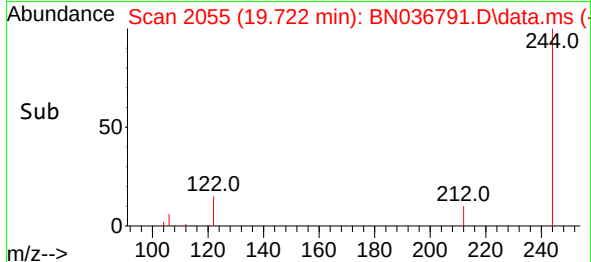
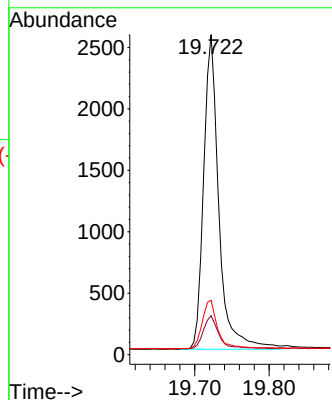
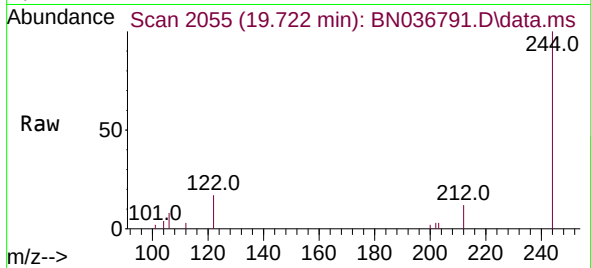




#31
Terphenyl-d14
Concen: 0.326 ng
RT: 19.722 min Scan# 2060
Delta R.T. -0.023 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

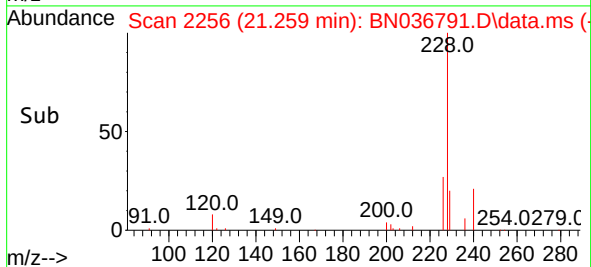
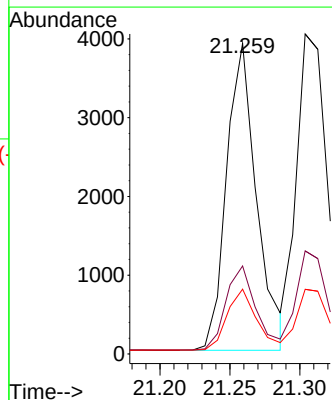
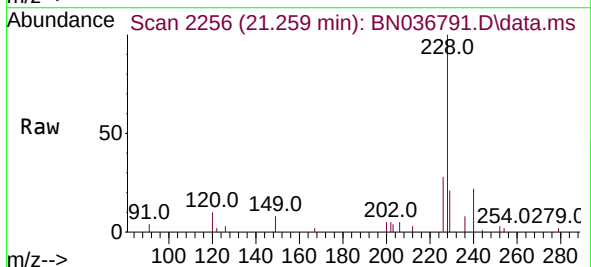
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

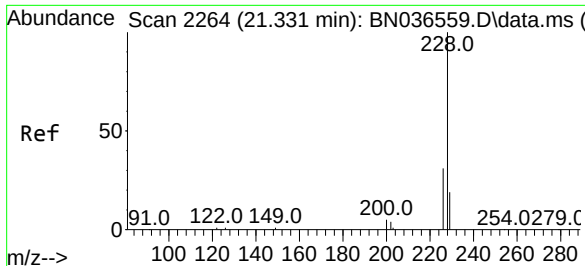
Tgt Ion:244 Resp: 3623
Ion Ratio Lower Upper
244 100
212 12.2 9.6 14.4
122 17.0 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:228 Resp: 5842
Ion Ratio Lower Upper
228 100
226 28.3 22.5 33.7
229 20.9 16.6 25.0

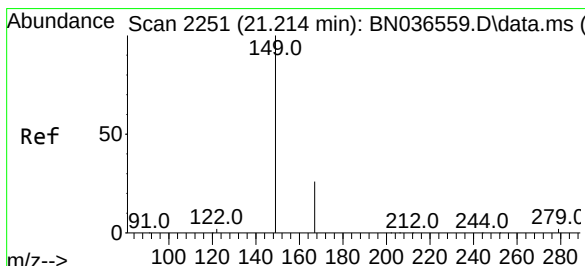
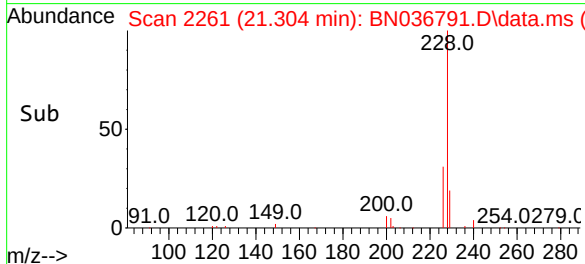
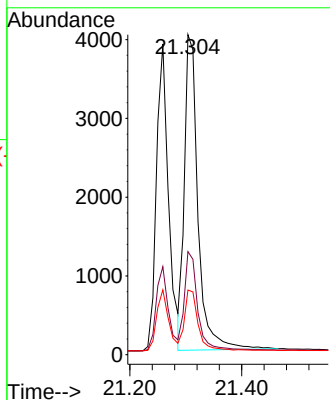
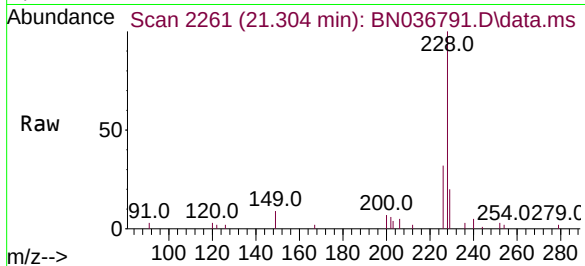




#33
Chrysene
Concen: 0.385 ng
RT: 21.304 min Scan# 21
Delta R.T. -0.027 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

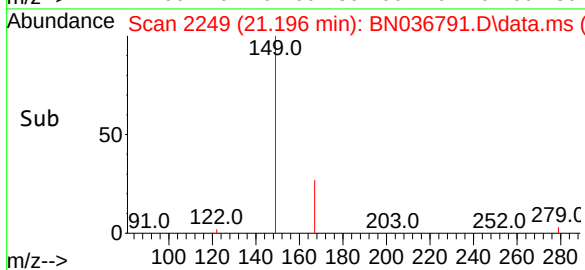
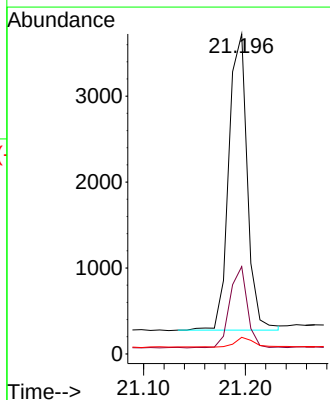
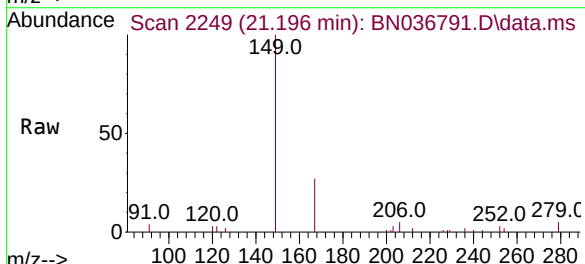
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

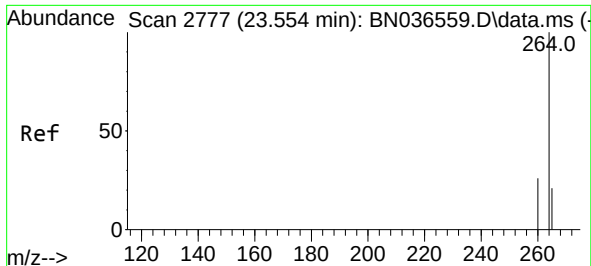
Tgt Ion:228 Resp: 6781
Ion Ratio Lower Upper
228 100
226 32.2 25.3 37.9
229 20.2 15.8 23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.380 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:149 Resp: 4355
Ion Ratio Lower Upper
149 100
167 25.9 20.7 31.1
279 3.3 3.6 5.4#

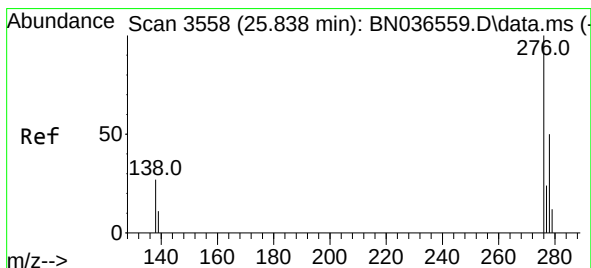
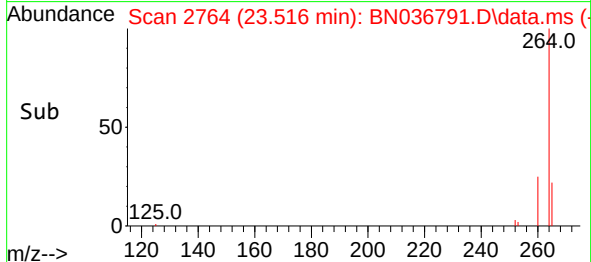
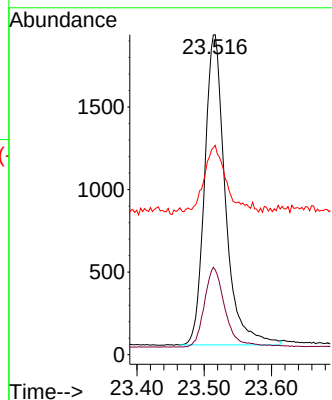
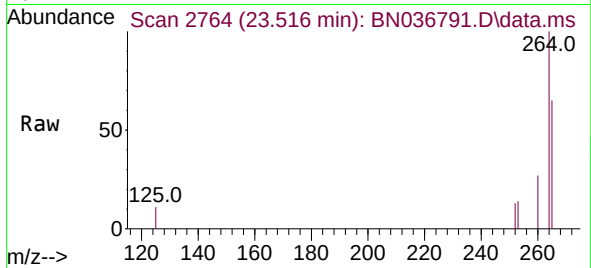




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 21
Delta R.T. -0.038 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

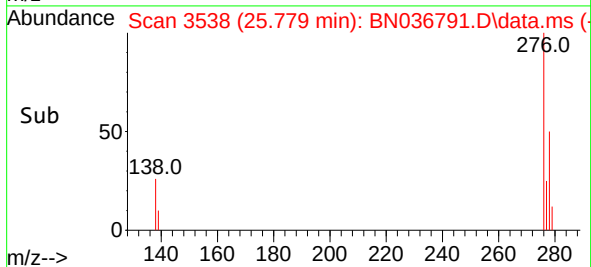
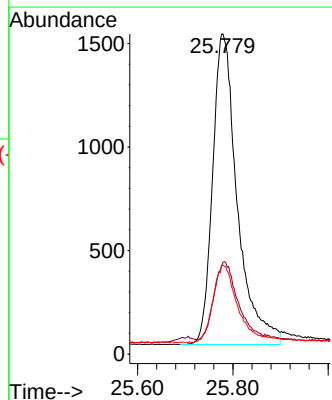
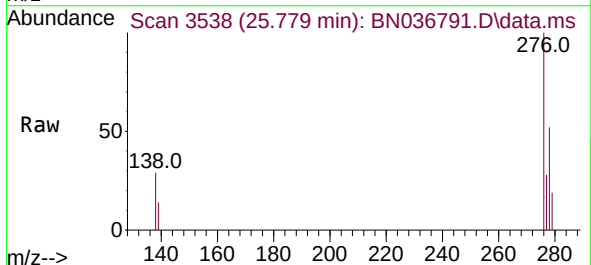
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

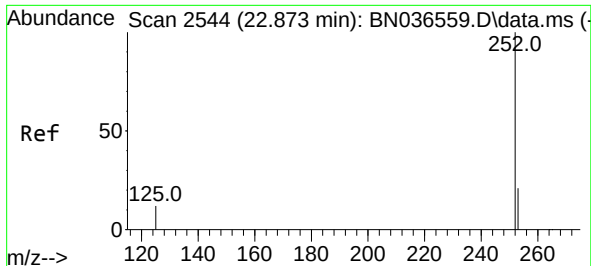
Tgt Ion:264 Resp: 4032
Ion Ratio Lower Upper
264 100
260 26.5 22.6 33.8
265 65.4 88.1 132.1#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.372 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:276 Resp: 5407
Ion Ratio Lower Upper
276 100
138 24.1 23.4 35.2
277 25.4 20.0 30.0

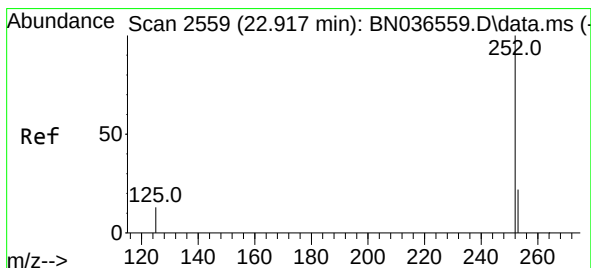
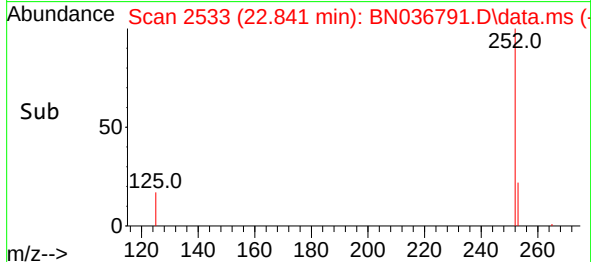
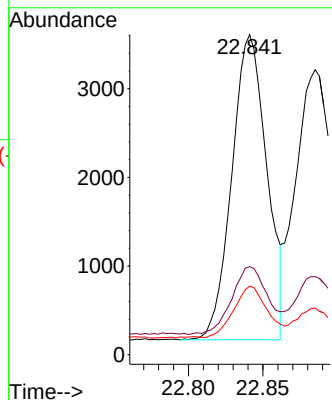
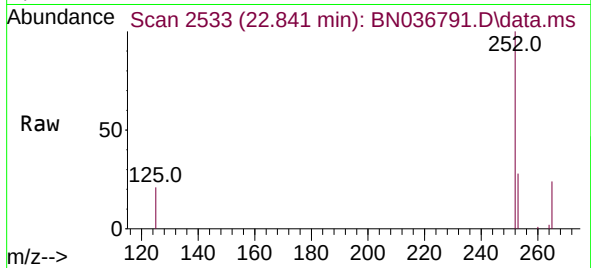




#37
Benzo(b)fluoranthene
Concen: 0.383 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.032 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

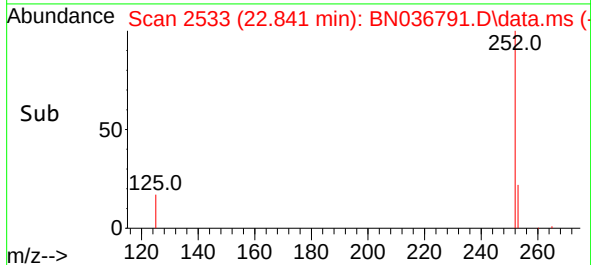
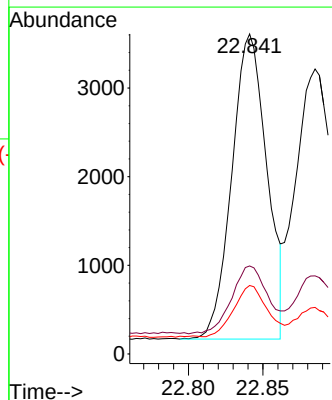
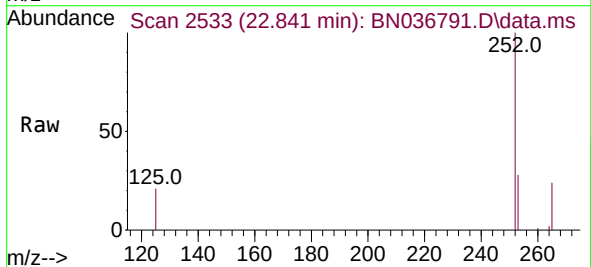
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

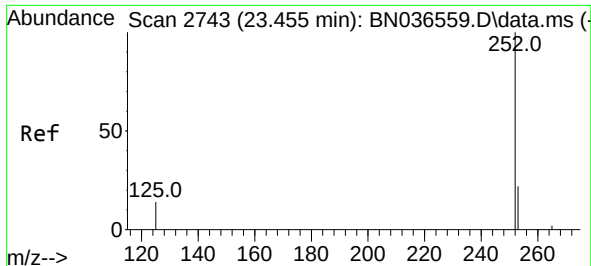
Tgt Ion:252 Resp: 5627
Ion Ratio Lower Upper
252 100
253 27.5 23.9 35.9
125 21.4 17.4 26.2



#38
Benzo(k)fluoranthene
Concen: 0.366 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.076 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

Tgt Ion:252 Resp: 5627
Ion Ratio Lower Upper
252 100
253 27.5 24.6 36.8
125 21.4 17.8 26.8

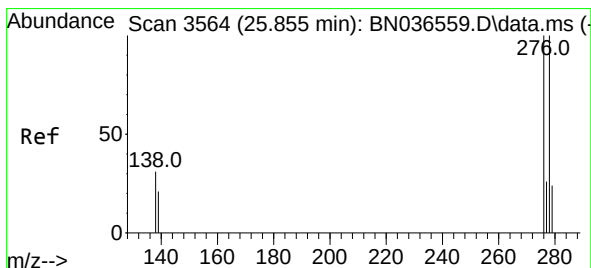
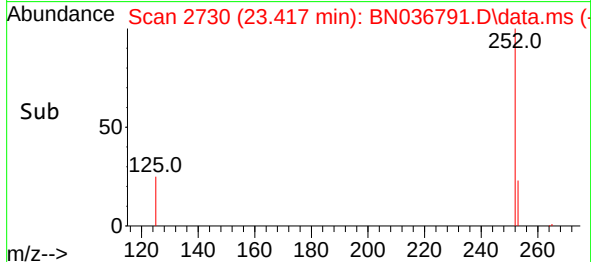
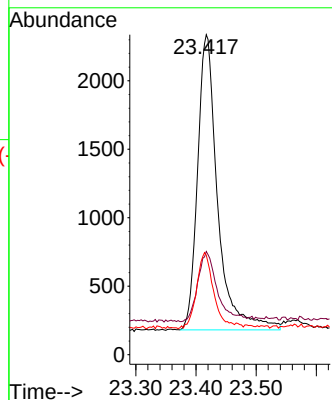
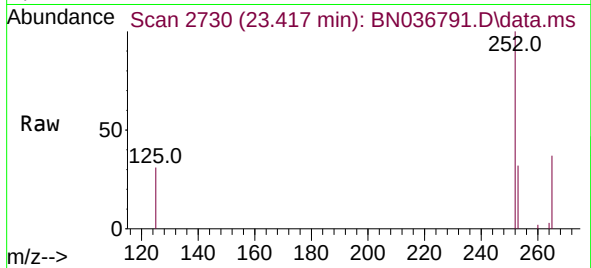




#39
Benzo(a)pyrene
Concen: 0.404 ng
RT: 23.417 min Scan# 21
Delta R.T. -0.038 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

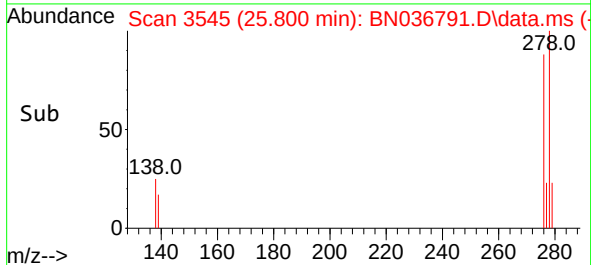
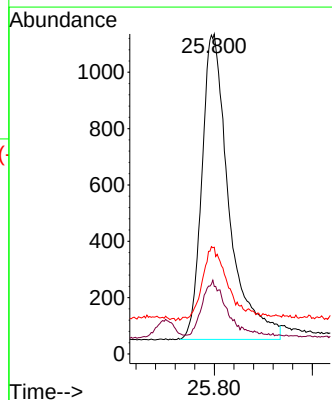
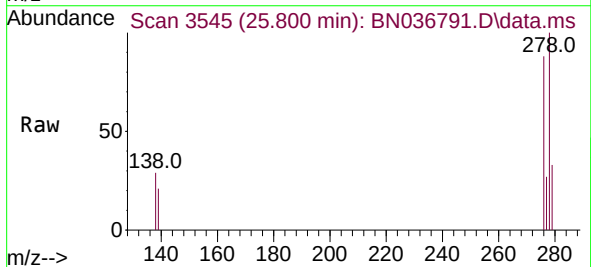
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

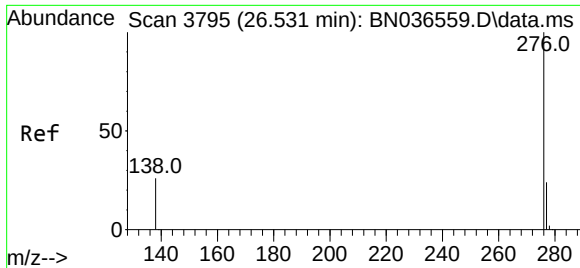
Tgt Ion:	252	Resp:	4993
Ion Ratio	Lower	Upper	
252	100		
253	32.3	27.8	41.8
125	31.1	22.7	34.1



#40
Dibenzo(a,h)anthracene
Concen: 0.366 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.055 min
Lab File: BN036791.D
Acq: 29 Mar 2025 02:44

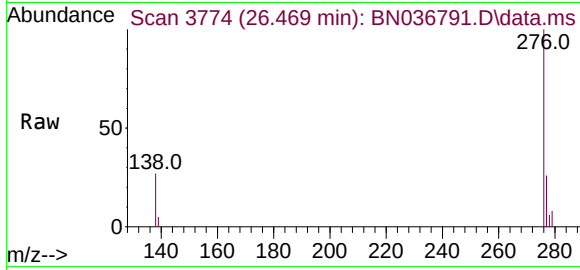
Tgt Ion:	278	Resp:	4150
Ion Ratio	Lower	Upper	
278	100		
139	21.1	20.8	31.2
279	33.4	28.8	43.2



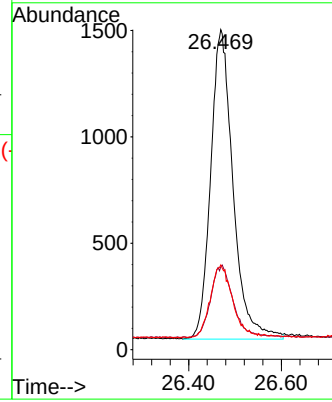
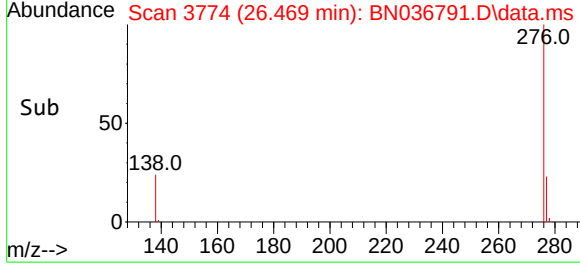


#41
 Benzo(g,h,i)perylene
 Concen: 0.376 ng
 RT: 26.469 min Scan# 31
 Delta R.T. -0.061 min
 Lab File: BN036791.D
 Acq: 29 Mar 2025 02:44

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4



Tgt Ion:	276	Resp:	4876
Ion	Ratio	Lower	Upper
276	100		
277	25.9	22.2	33.4
138	26.5	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
 Data File : BN036807.D
 Acq On : 29 Mar 2025 12:21
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Mar 31 02:01:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

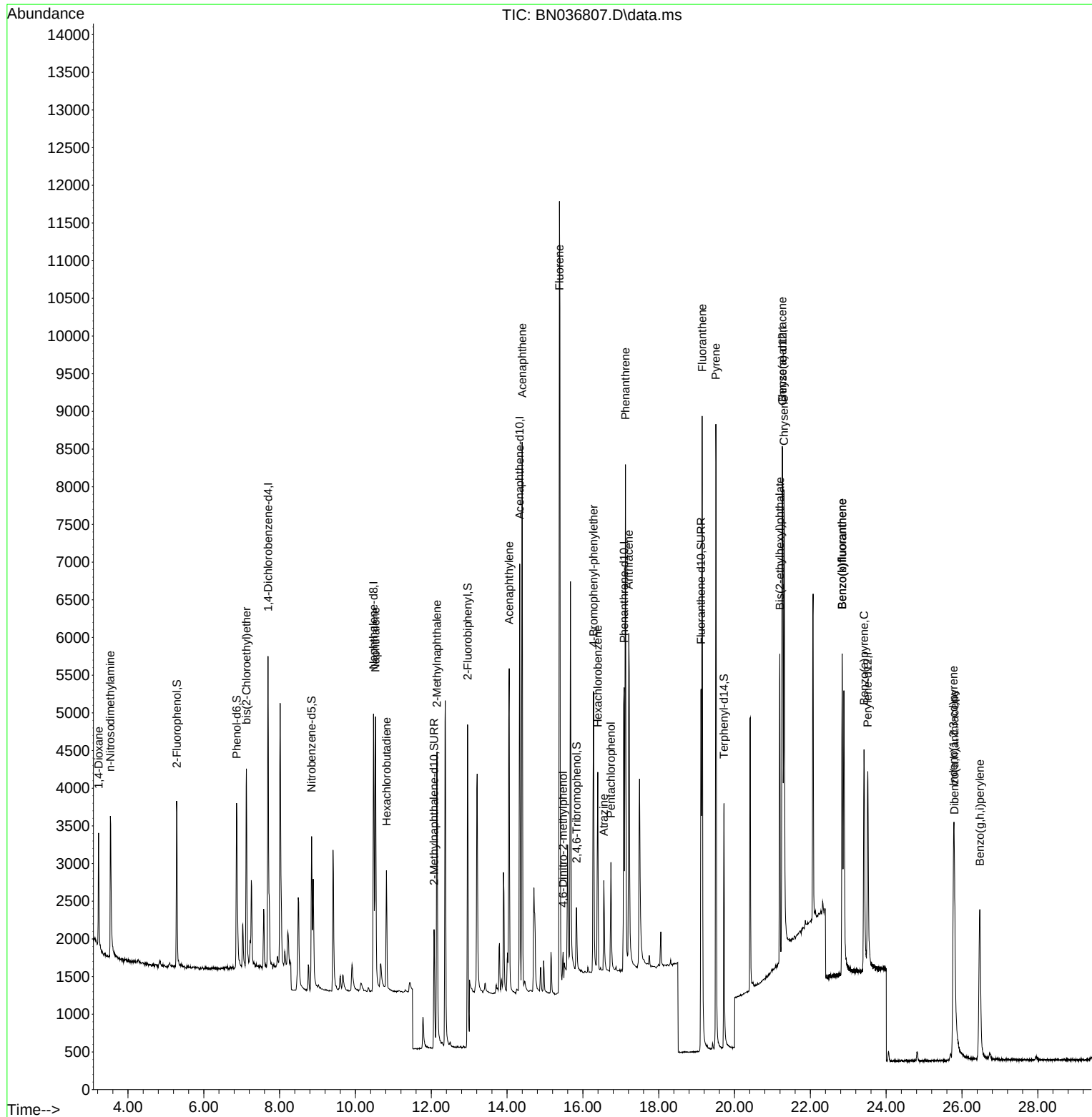
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1976	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	4956	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	3044	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	6169	0.400	ng	#-0.02
29) Chrysene-d12	21.268	240	4366	0.400	ng	-0.03
35) Perylene-d12	23.516	264	3818	0.400	ng	#-0.04
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1649	0.358	ng	-0.02
5) Phenol-d6	6.865	99	1932	0.340	ng	-0.04
8) Nitrobenzene-d5	8.843	82	1802	0.334	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2608	0.354	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	513	0.371	ng	-0.02
15) 2-Fluorobiphenyl	12.958	172	5830	0.329	ng	-0.03
27) Fluoranthene-d10	19.118	212	6077	0.384	ng	-0.02
31) Terphenyl-d14	19.722	244	3821	0.365	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.225	88	902	0.411	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.535	42	1839	0.415	ng	92
6) bis(2-Chloroethyl)ether	7.125	93	1990	0.338	ng	99
9) Naphthalene	10.530	128	5183	0.356	ng	99
10) Hexachlorobutadiene	10.818	225	1228	0.358	ng	# 100
12) 2-Methylnaphthalene	12.151	142	3312	0.357	ng	98
16) Acenaphthylene	14.056	152	5001	0.348	ng	99
17) Acenaphthene	14.398	154	3395	0.361	ng	99
18) Fluorene	15.382	166	4624	0.364	ng	100
20) 4,6-Dinitro-2-methylph...	15.478	198	475	0.447	ng	# 73
21) 4-Bromophenyl-phenylether	16.280	248	1424	0.368	ng	93
22) Hexachlorobenzene	16.391	284	1729	0.371	ng	97
23) Atrazine	16.553	200	1168	0.377	ng	96
24) Pentachlorophenol	16.739	266	792	0.372	ng	99
25) Phenanthrene	17.124	178	6985	0.377	ng	100
26) Anthracene	17.211	178	6251	0.374	ng	98
28) Fluoranthene	19.146	202	8157	0.392	ng	98
30) Pyrene	19.508	202	8270	0.387	ng	100
32) Benzo(a)anthracene	21.259	228	5377	0.354	ng	100
33) Chrysene	21.304	228	6263	0.378	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	4162	0.385	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.779	276	5188	0.376	ng	93
37) Benzo(b)fluoranthene	22.841	252	5191	0.374	ng	98
38) Benzo(k)fluoranthene	22.841	252	5191	0.356	ng	97
39) Benzo(a)pyrene	23.417	252	4547	0.389	ng	96
40) Dibenzo(a,h)anthracene	25.800	278	3712	0.346	ng	96
41) Benzo(g,h,i)perylene	26.472	276	4558	0.371	ng	95

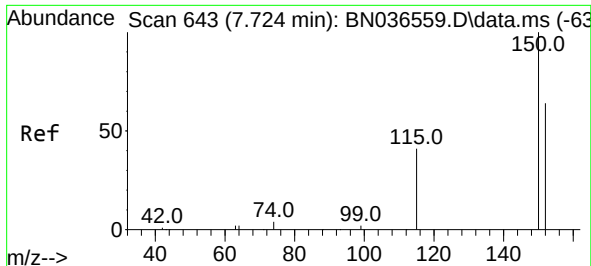
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN032825\
Data File : BN036807.D
Acq On : 29 Mar 2025 12:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

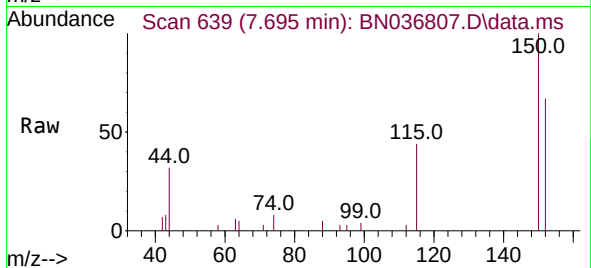
Quant Time: Mar 31 02:01:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration





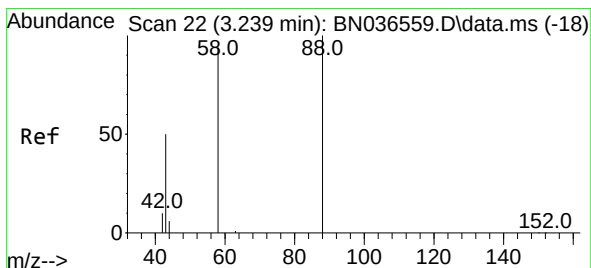
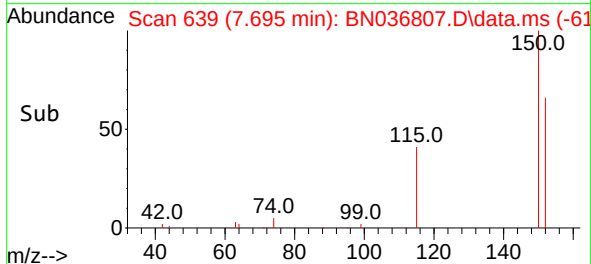
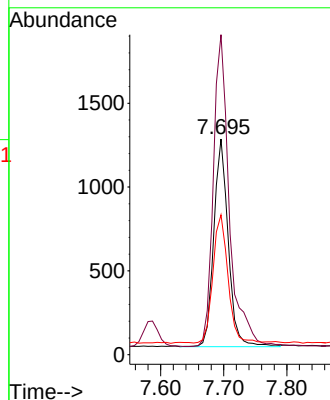
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.695 min Scan# 61
 Delta R.T. -0.029 min
 Lab File: BN036807.D
 Acq: 29 Mar 2025 12:21

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



Tgt Ion:152 Resp: 1976

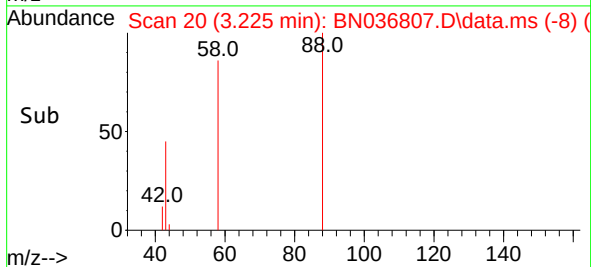
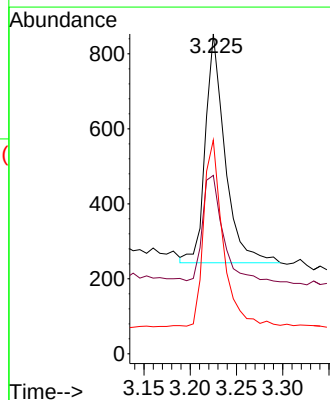
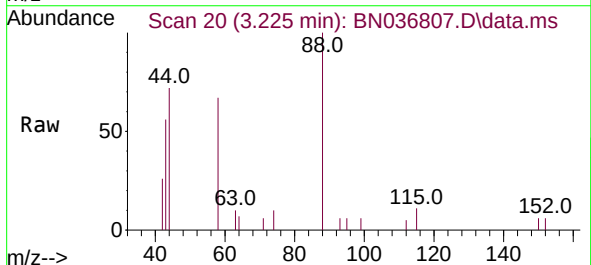
Ion	Ratio	Lower	Upper
152	100		
150	148.3	123.7	185.5
115	64.8	54.3	81.5

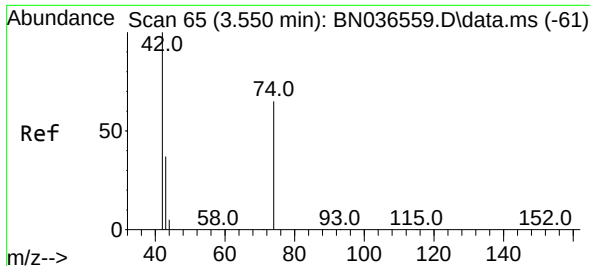


#2
 1,4-Dioxane
 Concen: 0.411 ng
 RT: 3.225 min Scan# 20
 Delta R.T. -0.014 min
 Lab File: BN036807.D
 Acq: 29 Mar 2025 12:21

Tgt Ion: 88 Resp: 902

Ion	Ratio	Lower	Upper
88	100		
43	48.6	37.8	56.8
58	81.3	67.4	101.2

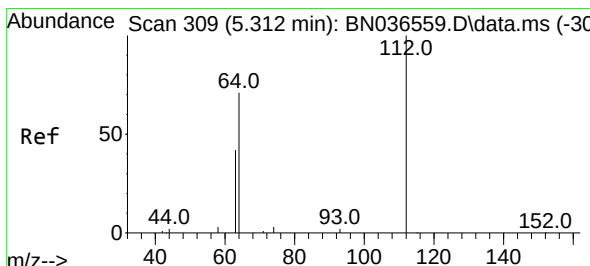
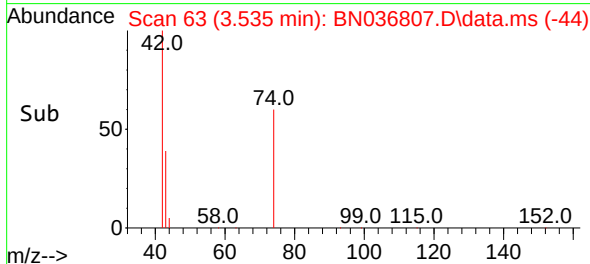
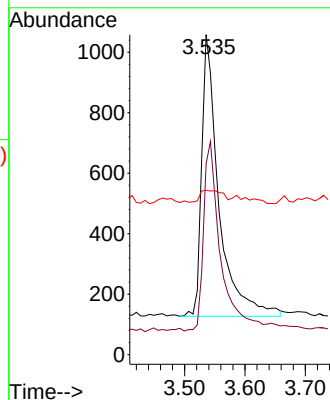
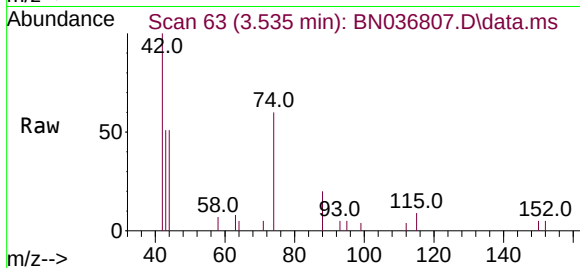




#3
 n-Nitrosodimethylamine
 Concen: 0.415 ng
 RT: 3.535 min Scan# 61
 Delta R.T. -0.014 min
 Lab File: BN036807.D
 Acq: 29 Mar 2025 12:21

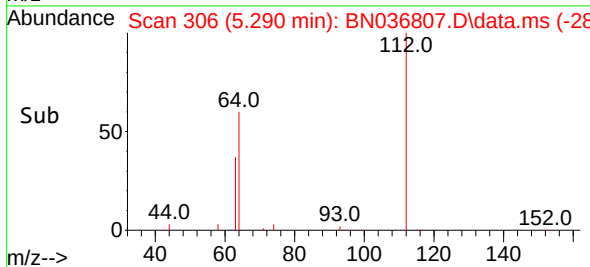
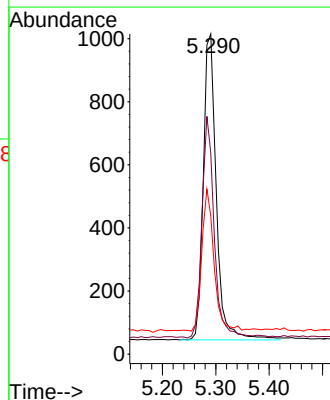
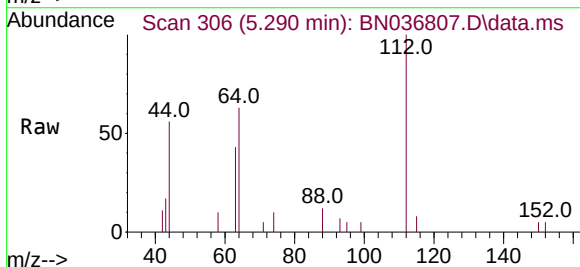
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

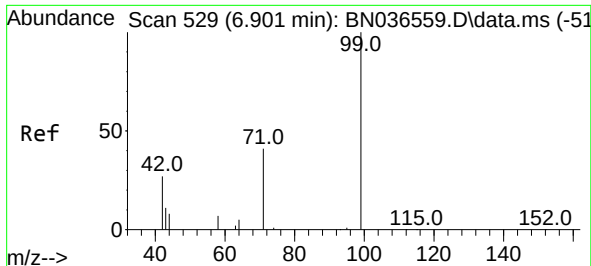
Tgt Ion: 42 Resp: 1839
 Ion Ratio Lower Upper
 42 100
 74 68.4 60.6 90.8
 44 6.7 6.3 9.5



#4
 2-Fluorophenol
 Concen: 0.358 ng
 RT: 5.290 min Scan# 306
 Delta R.T. -0.022 min
 Lab File: BN036807.D
 Acq: 29 Mar 2025 12:21

Tgt Ion: 112 Resp: 1649
 Ion Ratio Lower Upper
 112 100
 64 68.3 53.1 79.7
 63 42.4 31.8 47.8

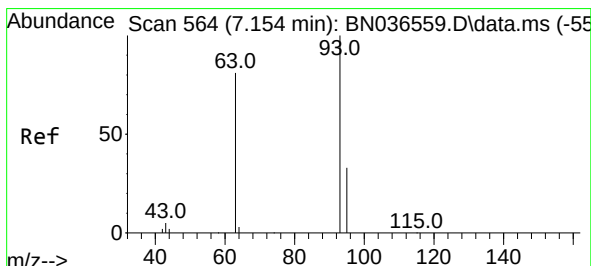
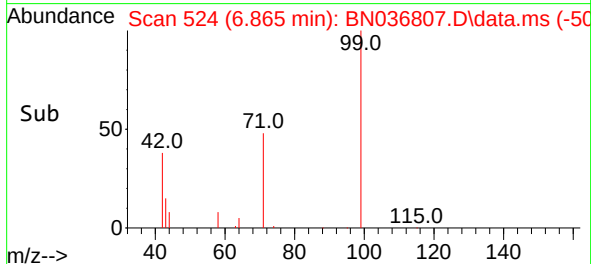
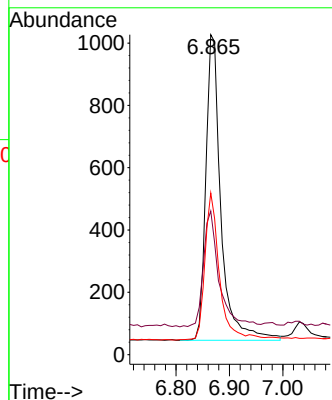
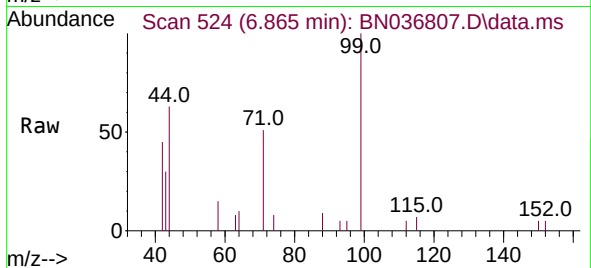




#5
Phenol-d6
Concen: 0.340 ng
RT: 6.865 min Scan# 51
Delta R.T. -0.036 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

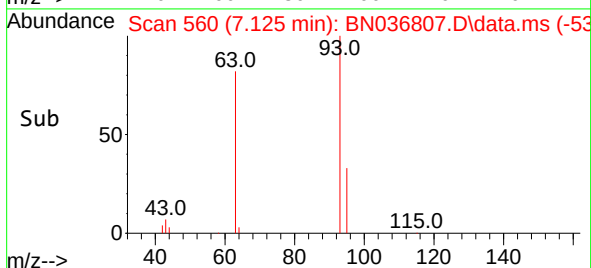
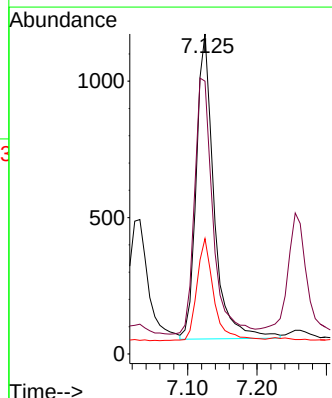
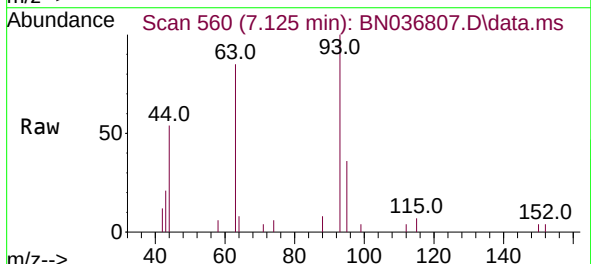
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

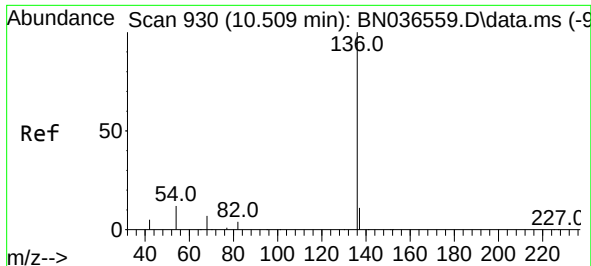
Tgt Ion: 99 Resp: 1932
Ion Ratio Lower Upper
99 100
42 39.4 26.5 39.7
71 46.4 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.338 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion: 93 Resp: 1990
Ion Ratio Lower Upper
93 100
63 86.3 67.7 101.5
95 31.9 25.6 38.4

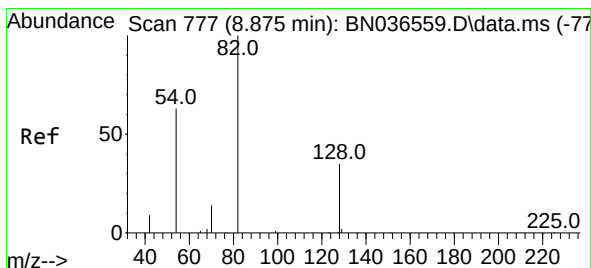
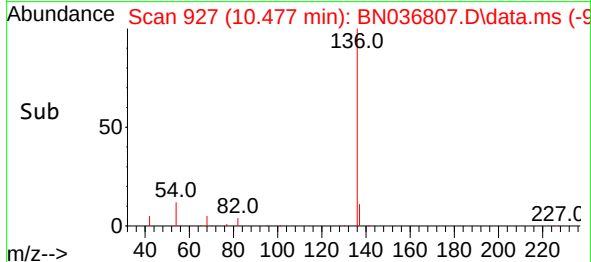
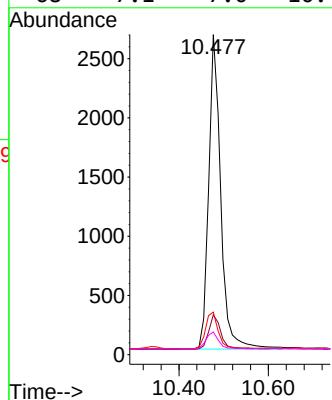
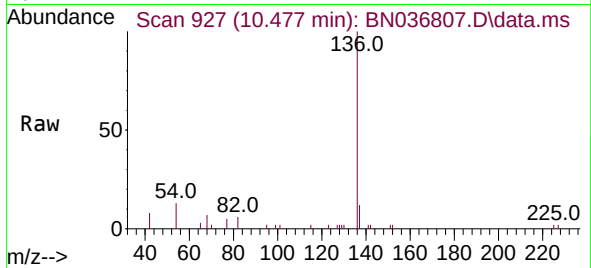




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

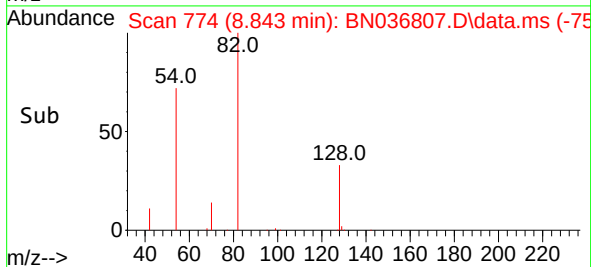
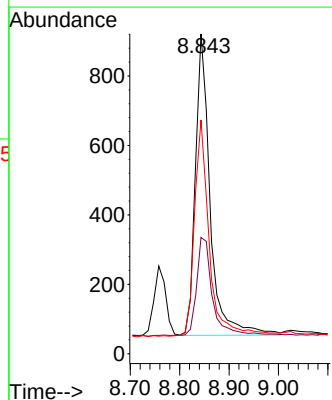
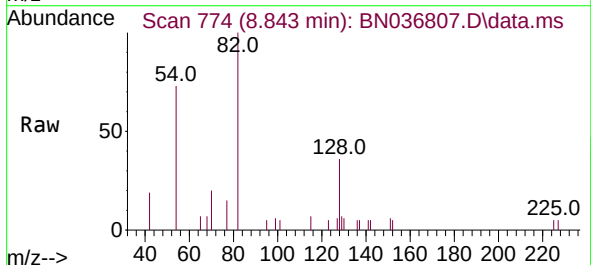
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

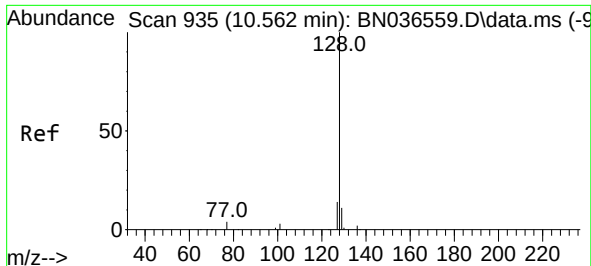
Tgt Ion:	136	Resp:	4956
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.3	15.5
54	13.3	11.5	17.3
68	7.1	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.334 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:	82	Resp:	1802
Ion	Ratio	Lower	Upper
82	100		
128	36.4	30.6	45.8
54	73.1	52.2	78.4

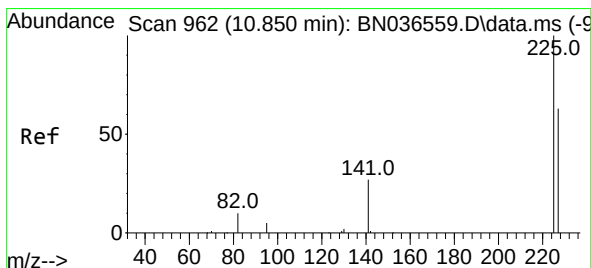
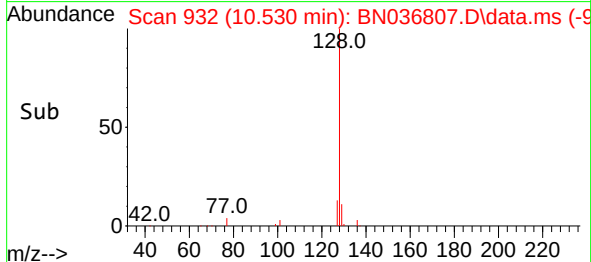
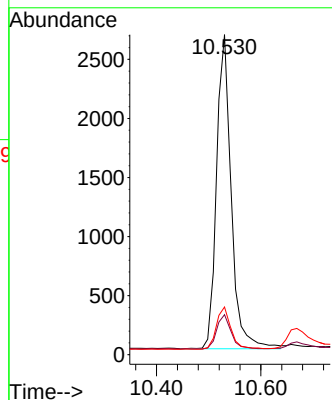
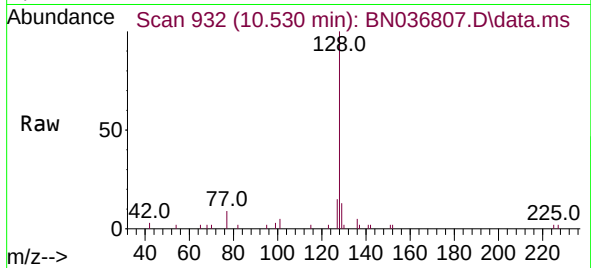




#9
Naphthalene
Concen: 0.356 ng
RT: 10.530 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

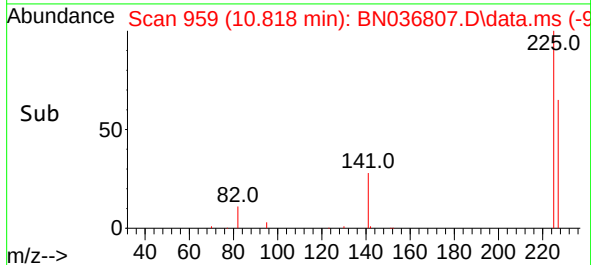
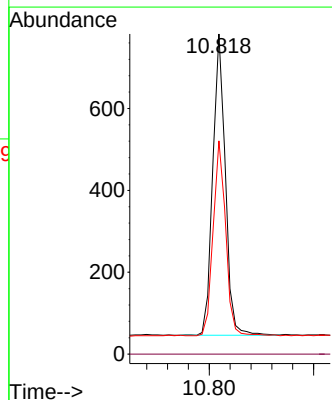
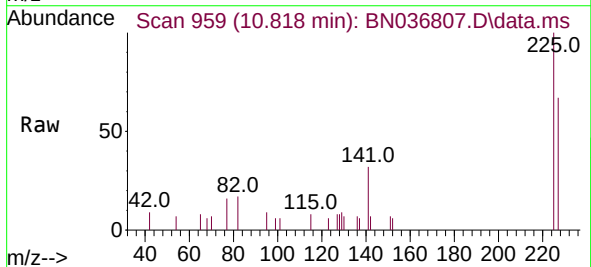
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

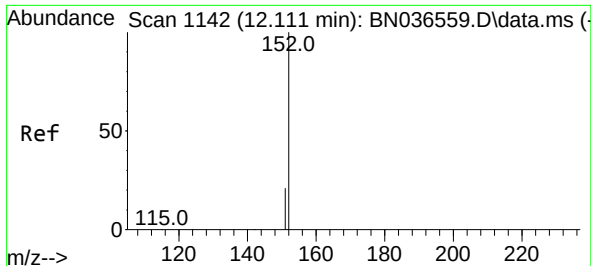
Tgt Ion:	128	Resp:	5183
Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	14.9	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.358 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:	225	Resp:	1228
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.8	77.8

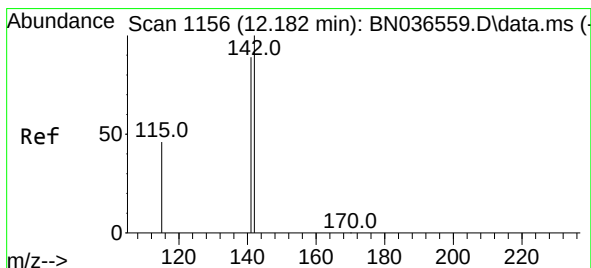
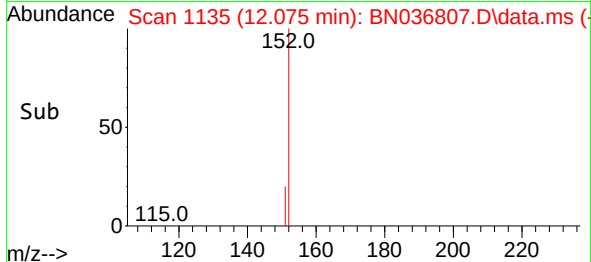
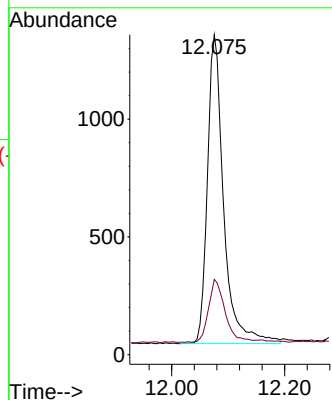
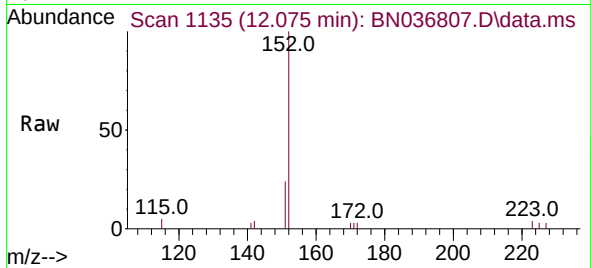




#11
2-Methylnaphthalene-d10
Concen: 0.354 ng
RT: 12.075 min Scan# 1142
Delta R.T. -0.035 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

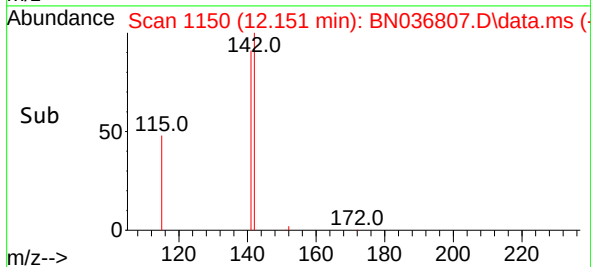
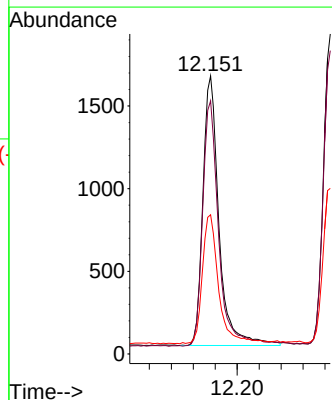
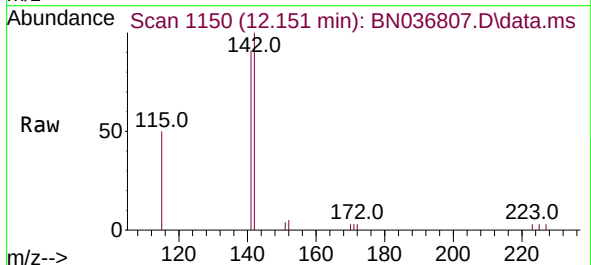
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

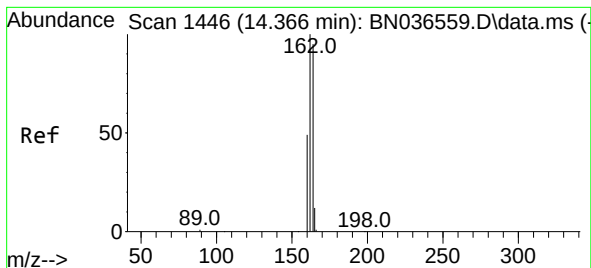
Tgt Ion:152 Resp: 2608
Ion Ratio Lower Upper
152 100
151 20.6 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.357 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:142 Resp: 3312
Ion Ratio Lower Upper
142 100
141 91.0 71.7 107.5
115 50.1 38.3 57.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.334 min Scan# 1443

Delta R.T. -0.032 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

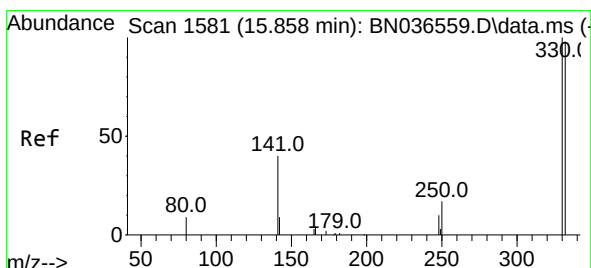
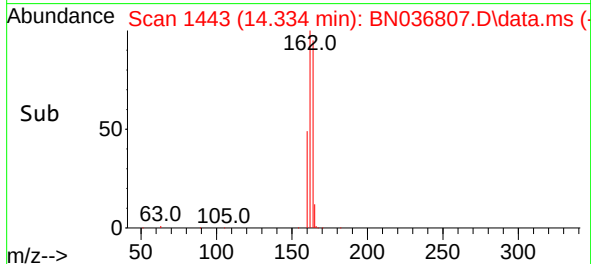
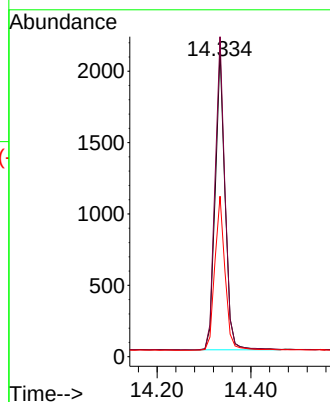
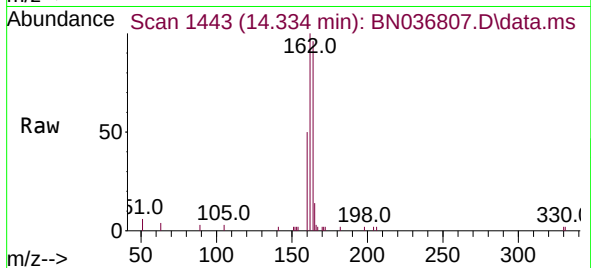
Tgt Ion:164 Resp: 3044

Ion Ratio Lower Upper

164 100

162 104.5 84.2 126.2

160 52.4 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.371 ng

RT: 15.833 min Scan# 1579

Delta R.T. -0.025 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

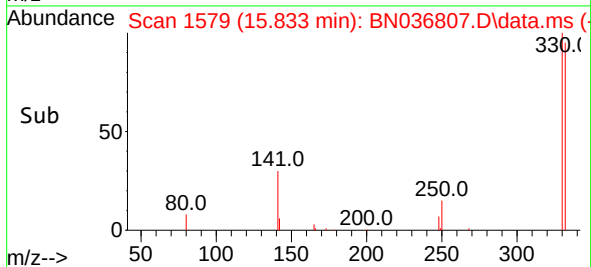
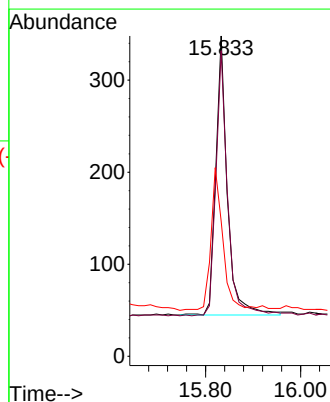
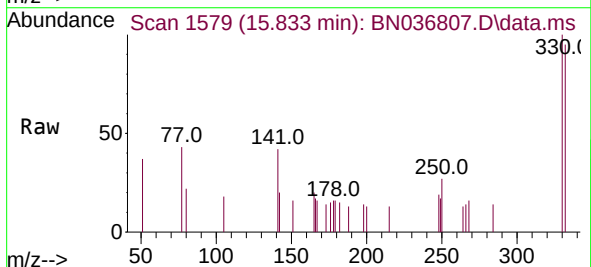
Tgt Ion:330 Resp: 513

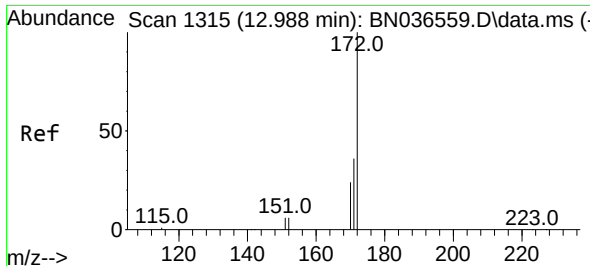
Ion Ratio Lower Upper

330 100

332 96.9 75.2 112.8

141 52.4 43.4 65.2

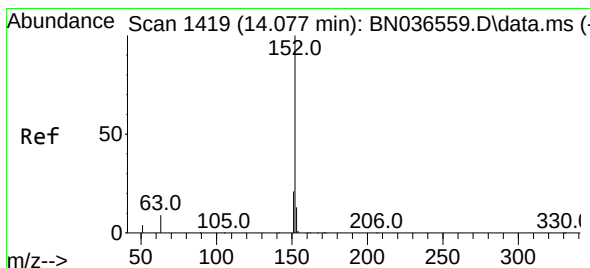
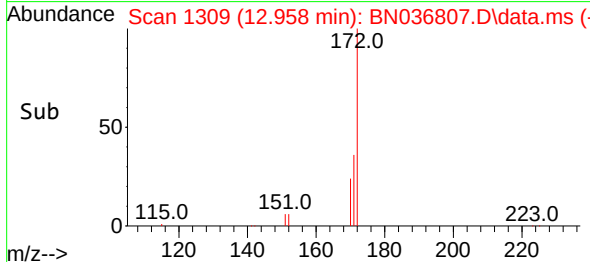
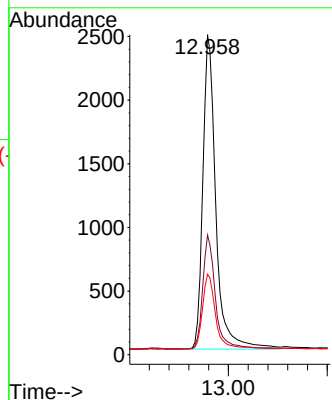
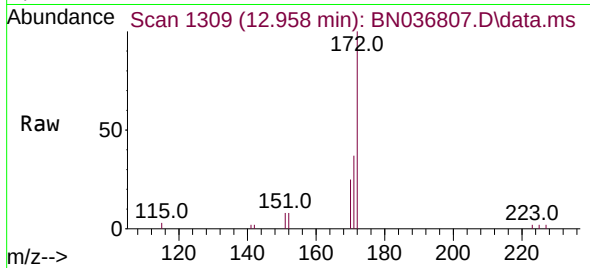




#15
2-Fluorobiphenyl
Concen: 0.329 ng
RT: 12.958 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

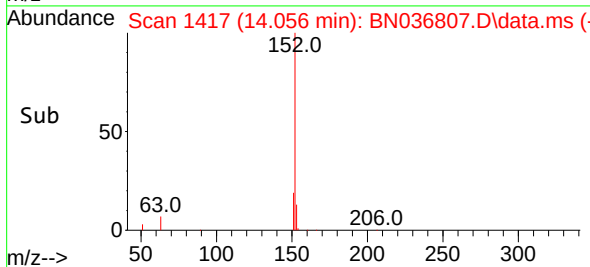
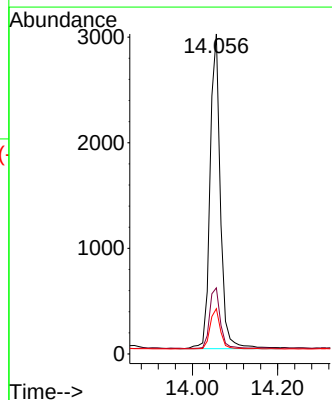
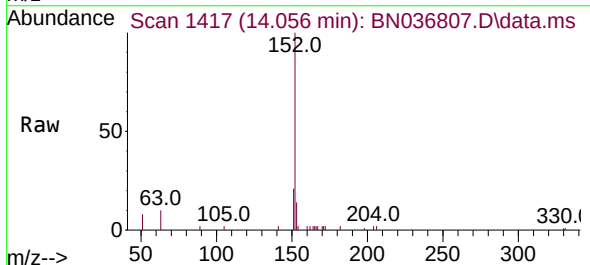
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

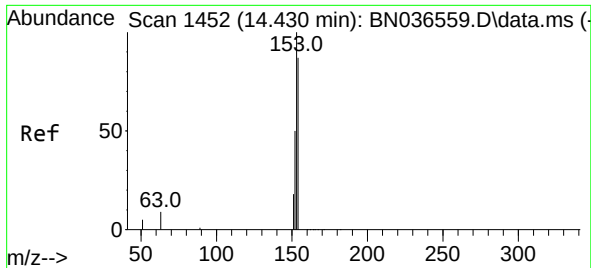
Tgt Ion:172	Resp:	5830
Ion Ratio	Lower	Upper
172	100	
171	37.4	29.5 44.3
170	25.2	20.2 30.4



#16
Acenaphthylene
Concen: 0.348 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:152	Resp:	5001
Ion Ratio	Lower	Upper
152	100	
151	19.7	16.2 24.4
153	12.6	10.6 15.8

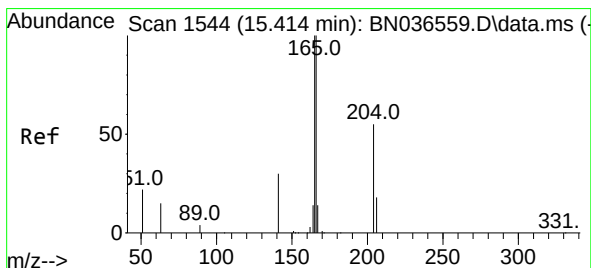
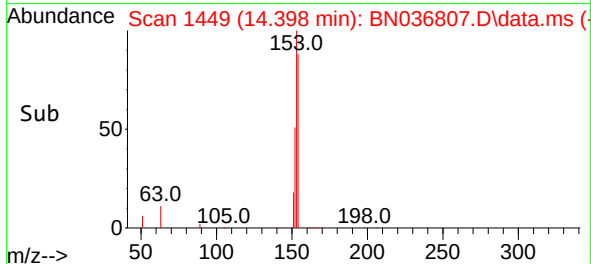
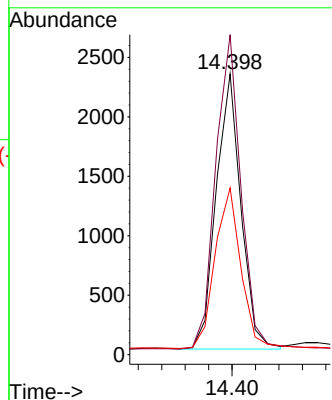
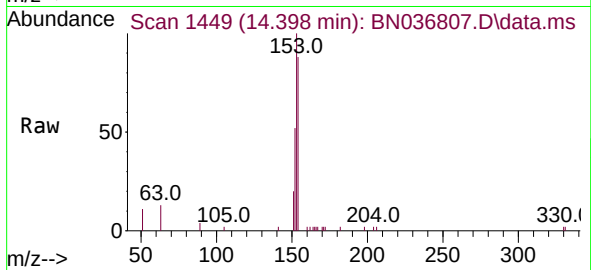




#17
Acenaphthene
Concen: 0.361 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

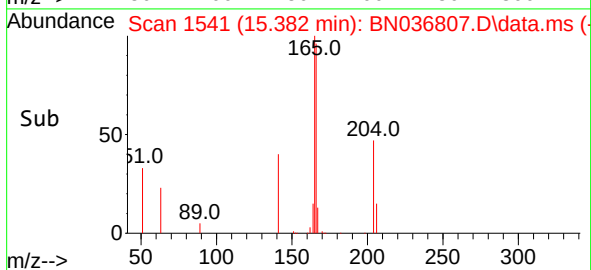
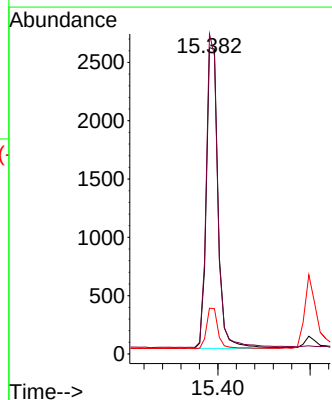
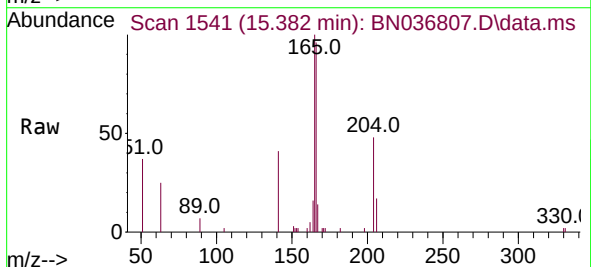
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

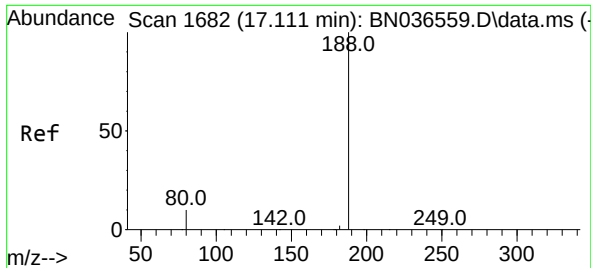
Tgt Ion:154 Resp: 3395
Ion Ratio Lower Upper
154 100
153 116.8 94.1 141.1
152 61.6 49.8 74.6



#18
Fluorene
Concen: 0.364 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:166 Resp: 4624
Ion Ratio Lower Upper
166 100
165 99.9 79.8 119.8
167 13.3 10.6 15.8

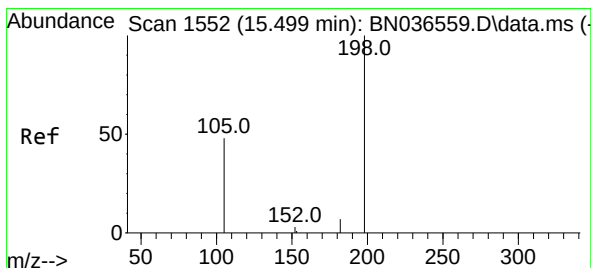
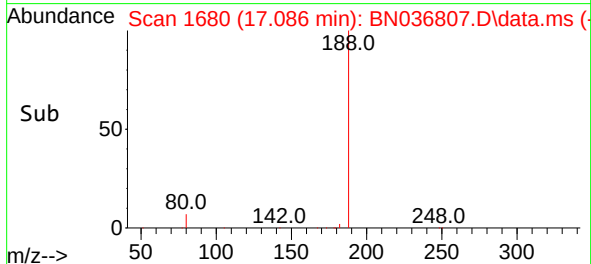
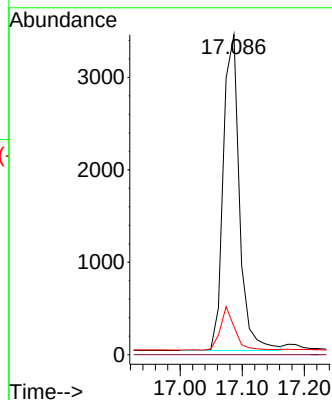
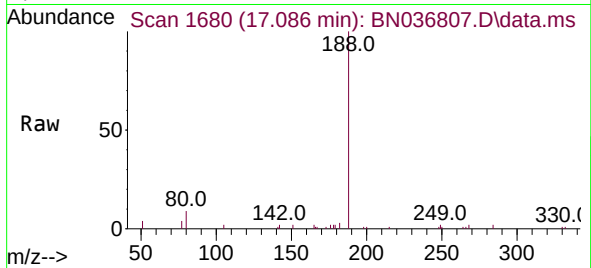




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

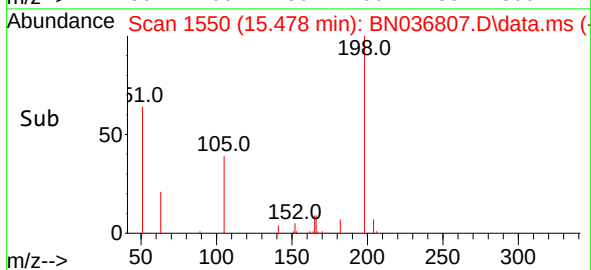
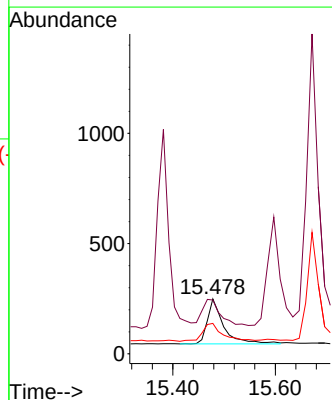
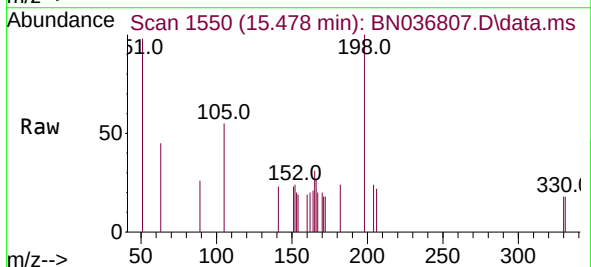
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

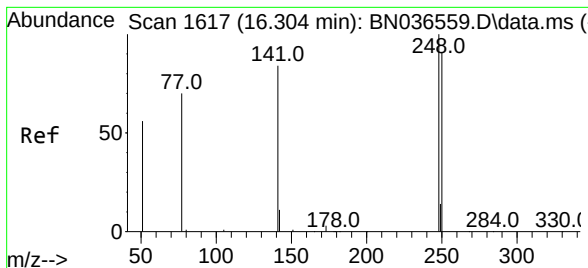
Tgt Ion:188 Resp: 6169
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.7 8.8 13.2#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.447 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:198 Resp: 475
Ion Ratio Lower Upper
198 100
51 98.0 107.9 161.9#
105 55.4 56.2 84.2#

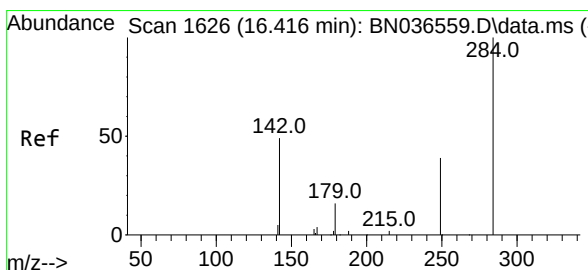
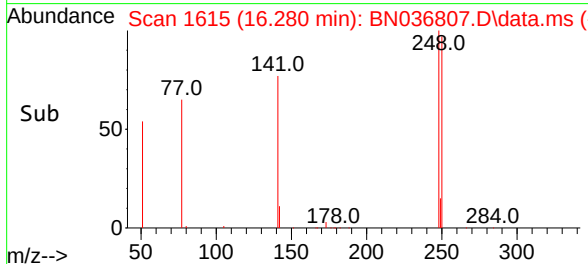
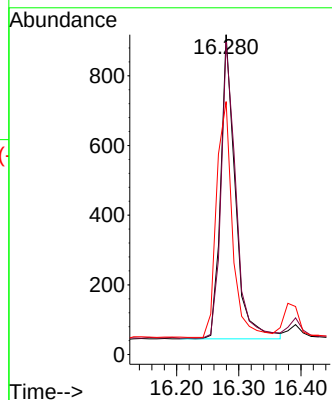
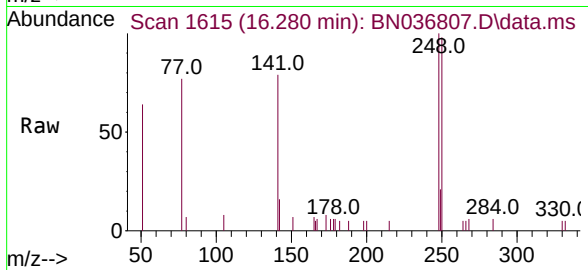




#21
4-Bromophenyl-phenylether
Concen: 0.368 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

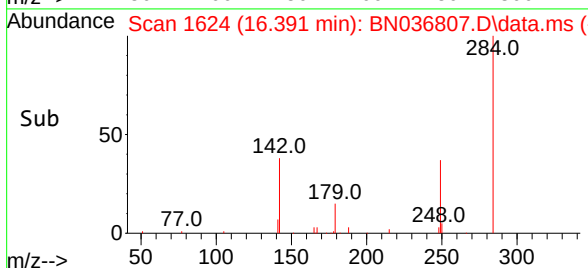
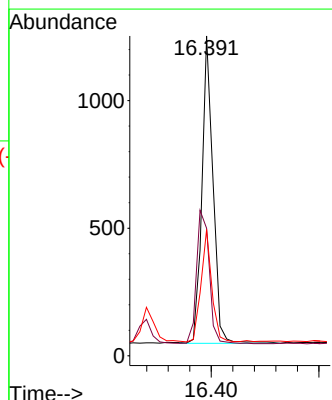
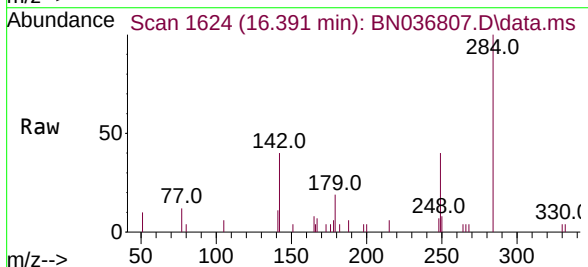
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

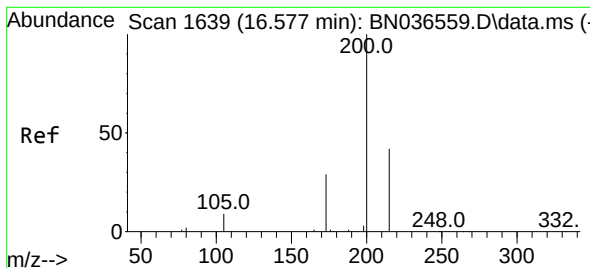
Tgt Ion:	248	Resp:	1424
Ion	Ratio	Lower	Upper
248	100		
250	97.7	73.0	109.6
141	79.1	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.371 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

Tgt Ion:	284	Resp:	1729
Ion	Ratio	Lower	Upper
284	100		
142	49.7	37.0	55.4
249	35.3	28.1	42.1





#23

Atrazine

Concen: 0.377 ng

RT: 16.553 min Scan# 1

Delta R.T. -0.025 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

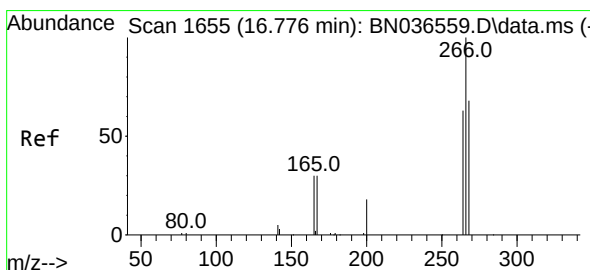
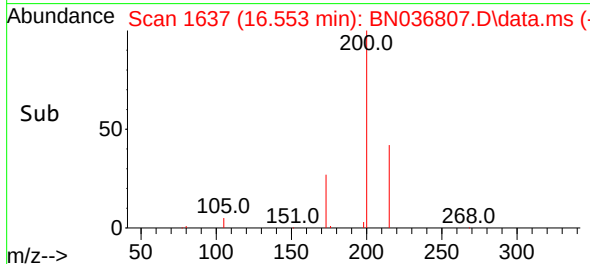
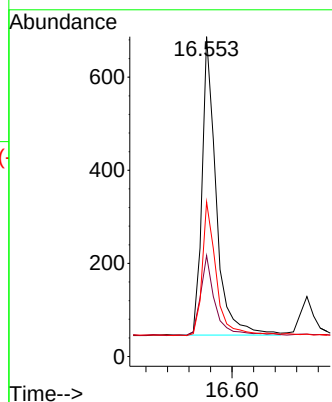
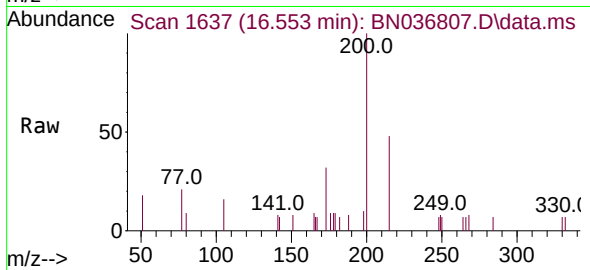
Tgt Ion:200 Resp: 1168

Ion Ratio Lower Upper

200 100

173 31.6 27.3 40.9

215 48.3 36.8 55.2



#24

Pentachlorophenol

Concen: 0.372 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.037 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

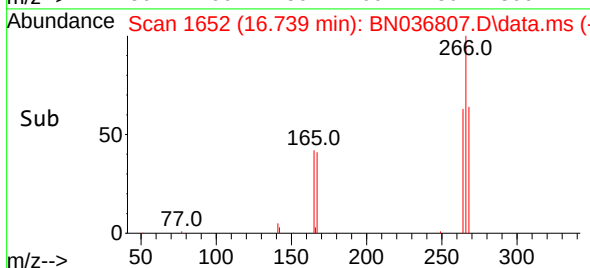
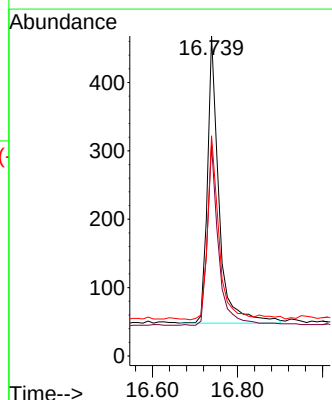
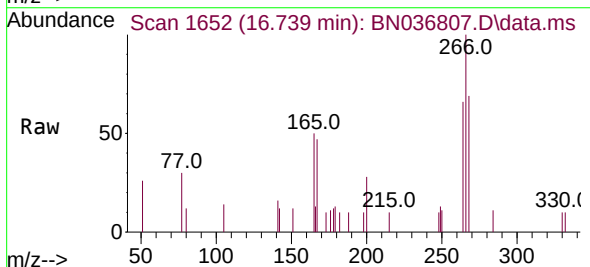
Tgt Ion:266 Resp: 792

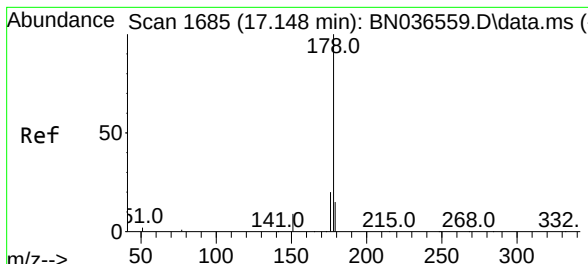
Ion Ratio Lower Upper

266 100

264 61.1 49.6 74.4

268 62.4 50.9 76.3



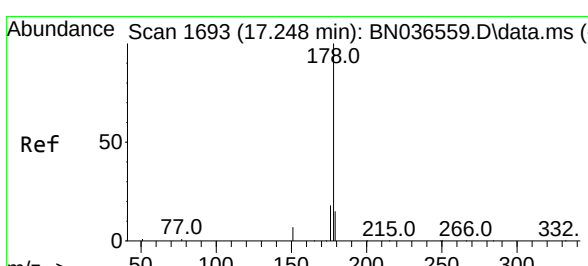
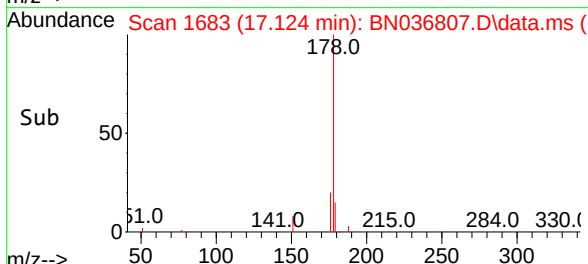
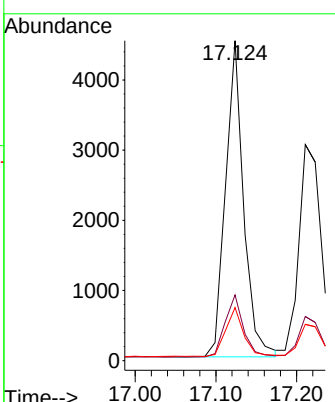
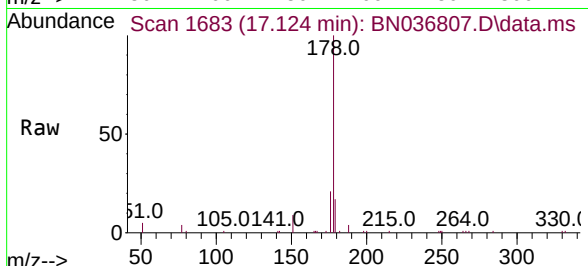


#25
 Phenanthrene
 Concen: 0.377 ng
 RT: 17.124 min Scan# 1683
 Delta R.T. -0.025 min
 Lab File: BN036807.D
 Acq: 29 Mar 2025 12:21

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Tgt Ion: 178 Resp: 6985

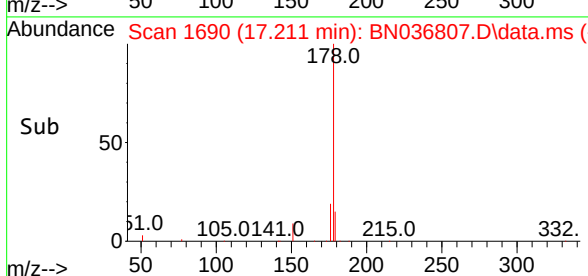
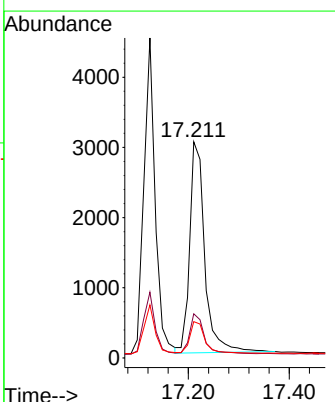
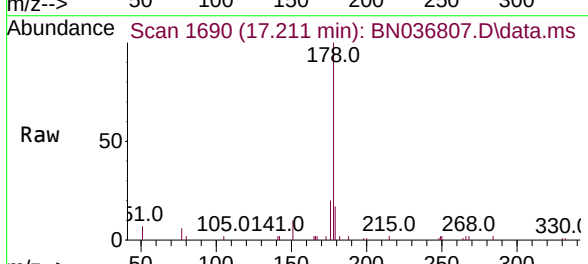
Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.3	12.2	18.4

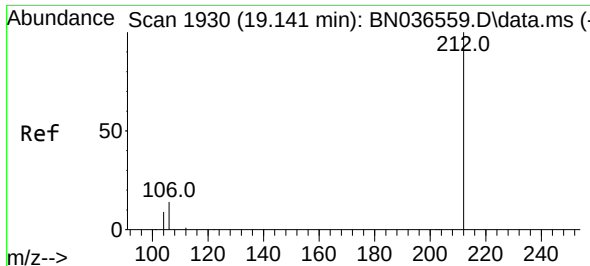


#26
 Anthracene
 Concen: 0.374 ng
 RT: 17.211 min Scan# 1690
 Delta R.T. -0.037 min
 Lab File: BN036807.D
 Acq: 29 Mar 2025 12:21

Tgt Ion: 178 Resp: 6251

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.2
179	15.1	12.6	18.8

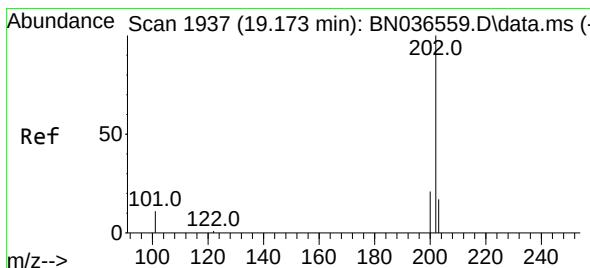
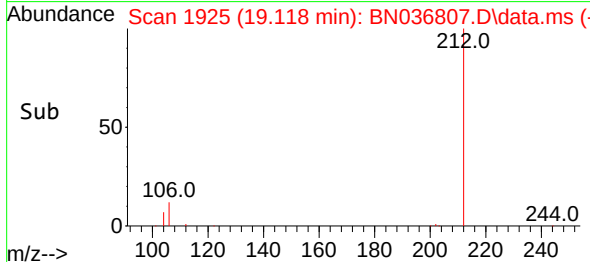
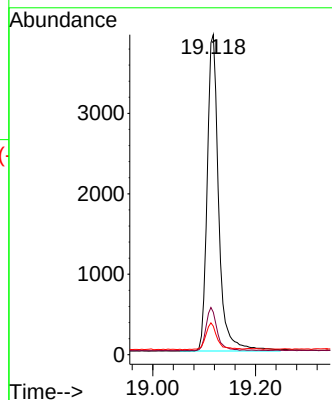
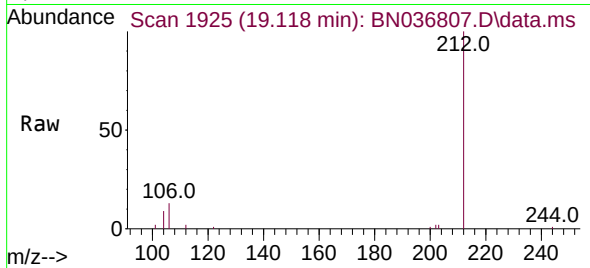




#27
Fluoranthene-d10
Concen: 0.384 ng
RT: 19.118 min Scan# 1911
Delta R.T. -0.023 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

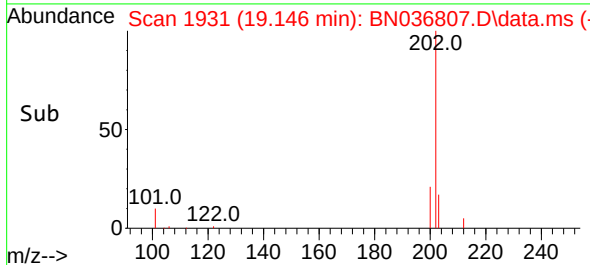
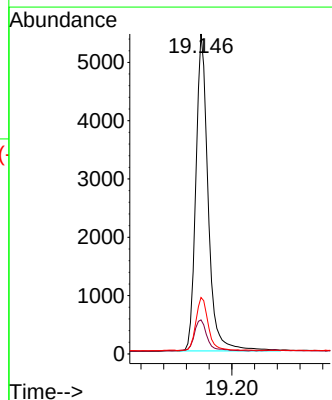
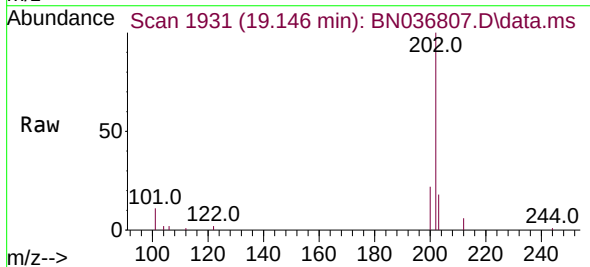
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

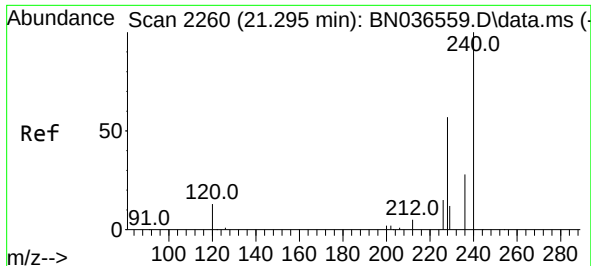
Tgt Ion:212 Resp: 6077
Ion Ratio Lower Upper
212 100
106 13.2 11.8 17.6
104 8.4 7.3 10.9



#28
Fluoranthene
Concen: 0.392 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.028 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

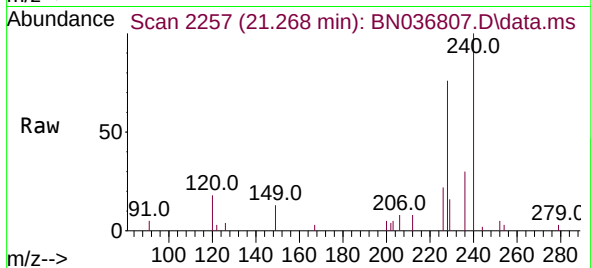
Tgt Ion:202 Resp: 8157
Ion Ratio Lower Upper
202 100
101 10.2 9.4 14.0
203 16.8 13.5 20.3



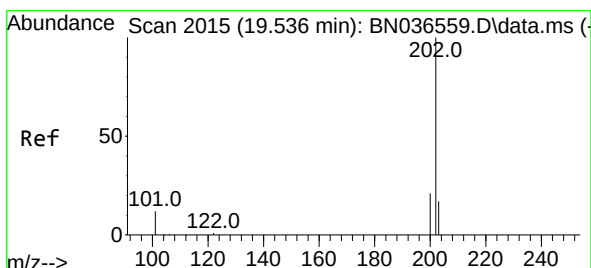
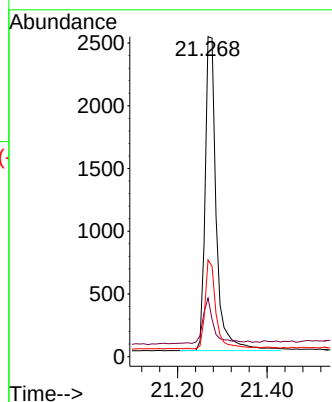
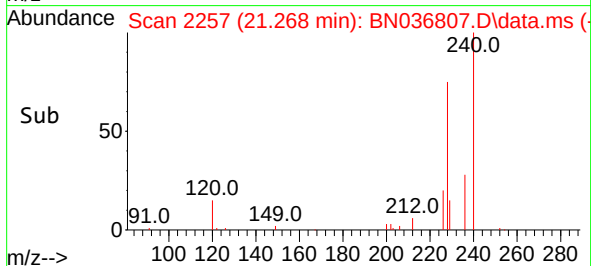


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 21
Delta R.T. -0.027 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

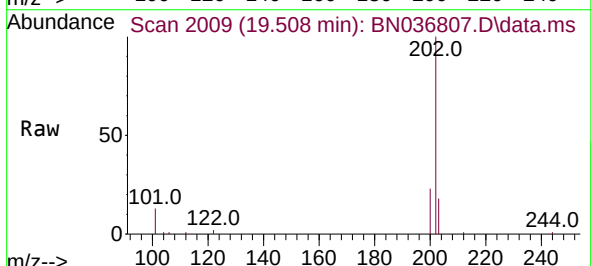
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



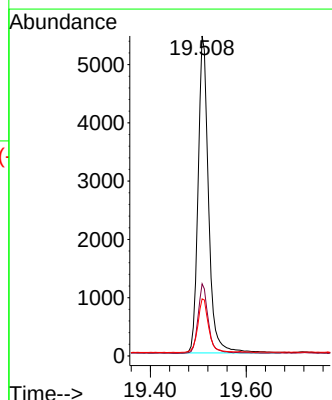
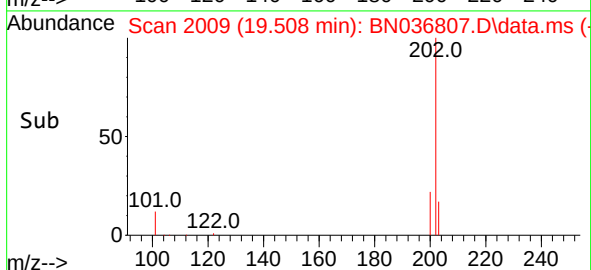
Tgt Ion:240 Resp: 4366
Ion Ratio Lower Upper
240 100
120 18.3 14.6 22.0
236 30.3 24.1 36.1

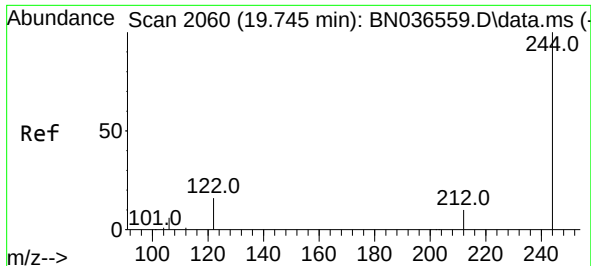


#30
Pyrene
Concen: 0.387 ng
RT: 19.508 min Scan# 2009
Delta R.T. -0.028 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21



Tgt Ion:202 Resp: 8270
Ion Ratio Lower Upper
202 100
200 21.2 17.1 25.7
203 17.4 14.1 21.1

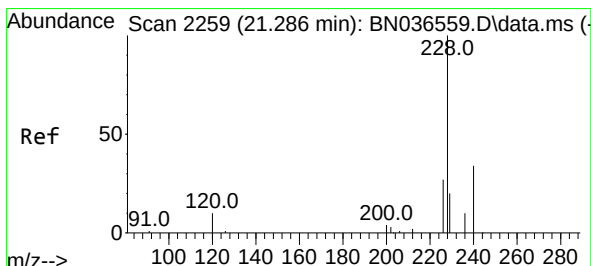
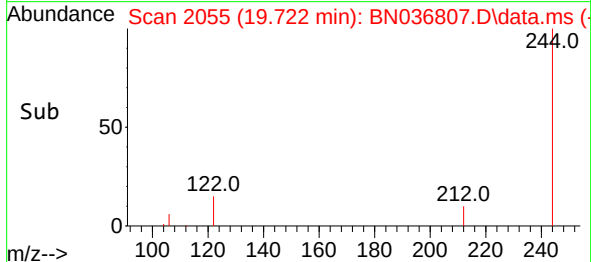
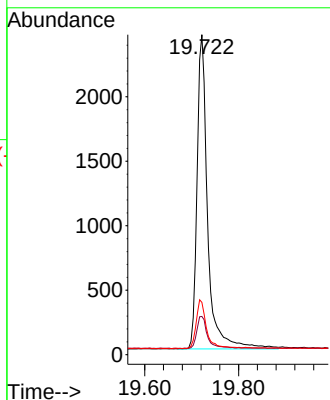
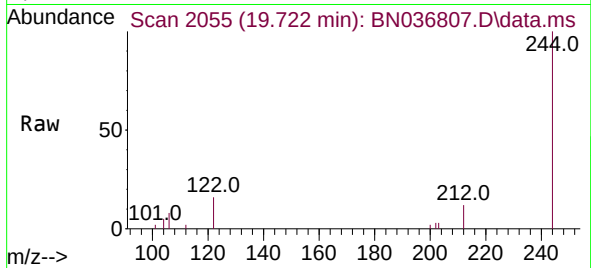




#31
 Terphenyl-d14
 Concen: 0.365 ng
 RT: 19.722 min Scan# 2060
 Delta R.T. -0.023 min
 Lab File: BN036807.D
 Acq: 29 Mar 2025 12:21

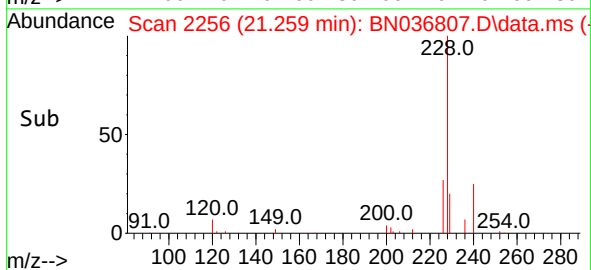
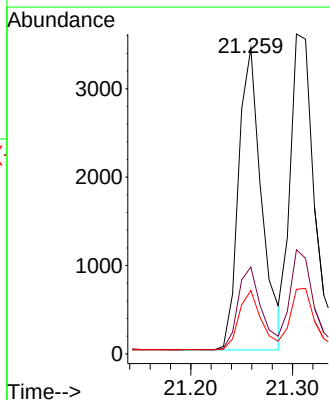
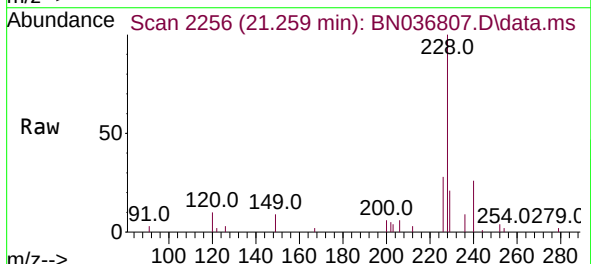
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

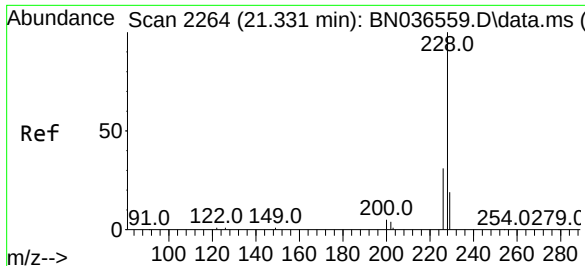
Tgt Ion:244 Resp: 3821
 Ion Ratio Lower Upper
 244 100
 212 12.0 9.6 14.4
 122 16.4 13.9 20.9



#32
 Benzo(a)anthracene
 Concen: 0.354 ng
 RT: 21.259 min Scan# 2256
 Delta R.T. -0.027 min
 Lab File: BN036807.D
 Acq: 29 Mar 2025 12:21

Tgt Ion:228 Resp: 5377
 Ion Ratio Lower Upper
 228 100
 226 28.4 22.5 33.7
 229 20.8 16.6 25.0





#33

Chrysene

Concen: 0.378 ng

RT: 21.304 min Scan# 21

Delta R.T. -0.027 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

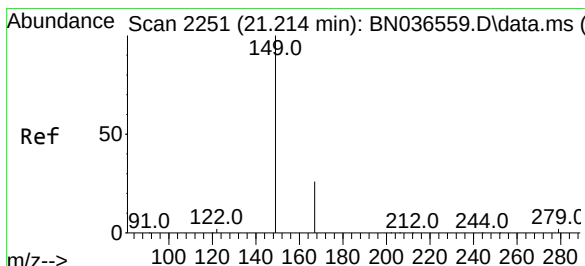
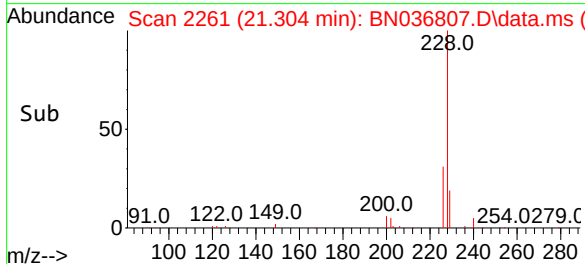
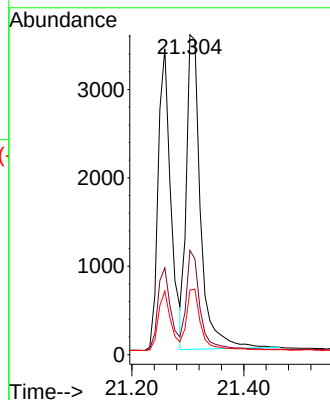
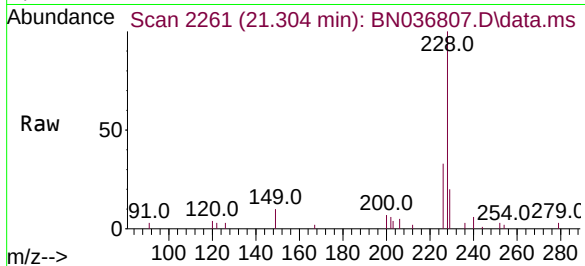
Tgt Ion:228 Resp: 6263

Ion Ratio Lower Upper

228 100

226 32.6 25.3 37.9

229 20.2 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.385 ng

RT: 21.196 min Scan# 2249

Delta R.T. -0.018 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

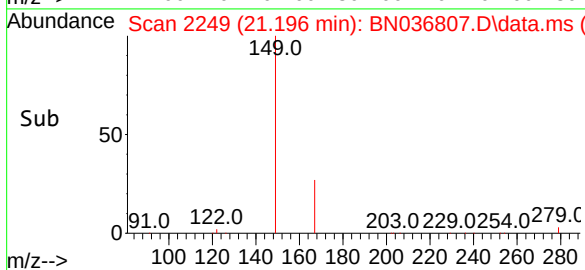
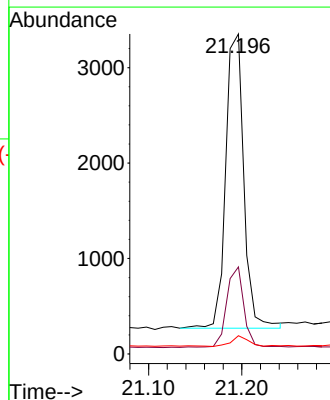
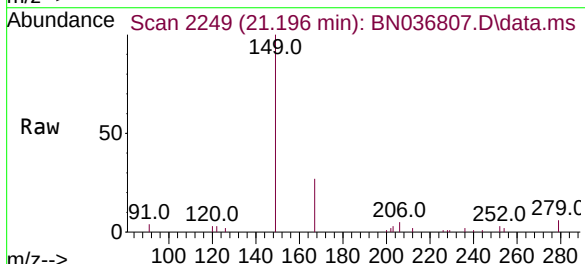
Tgt Ion:149 Resp: 4162

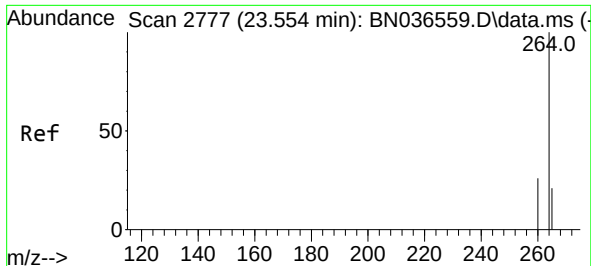
Ion Ratio Lower Upper

149 100

167 26.1 20.7 31.1

279 3.6 3.6 5.4#

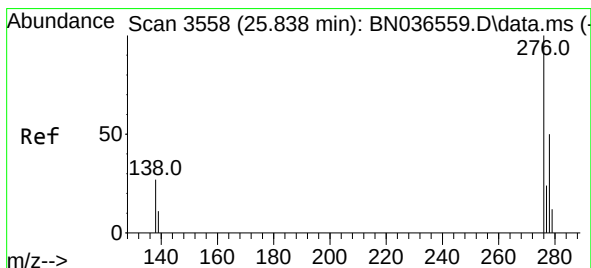
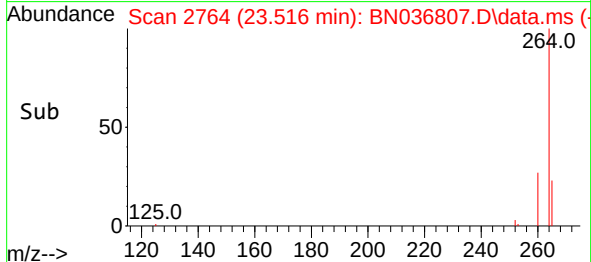
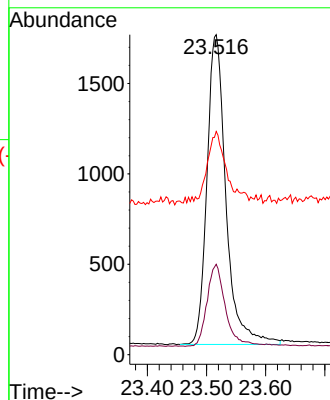
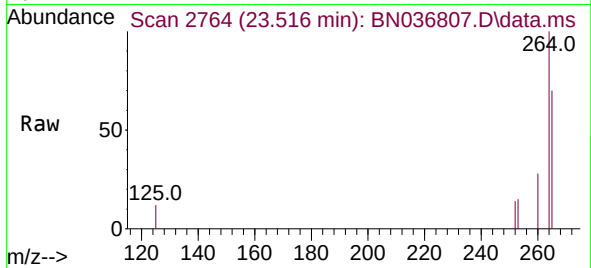




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.516 min Scan# 21
Delta R.T. -0.038 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

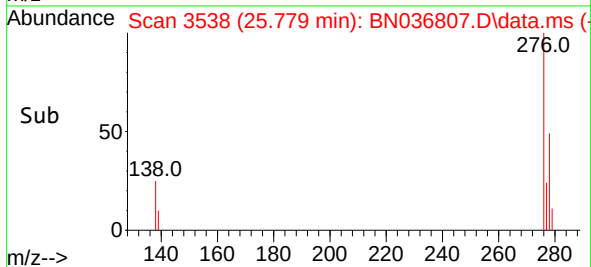
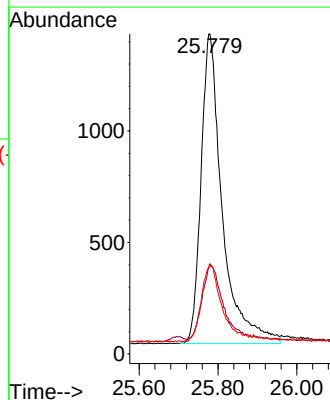
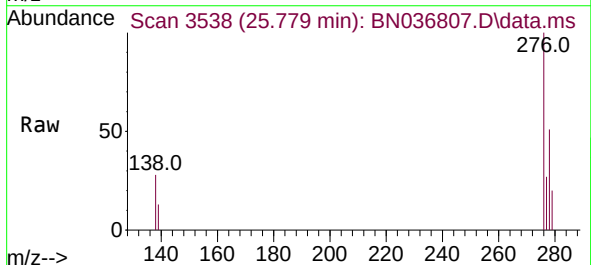
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

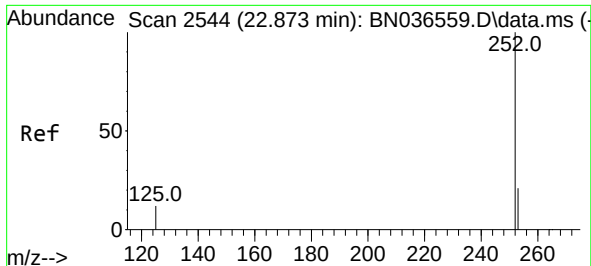
Tgt Ion:264 Resp: 3818
Ion Ratio Lower Upper
264 100
260 28.2 22.6 33.8
265 69.8 88.1 132.1#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.779 min Scan# 3538
Delta R.T. -0.058 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

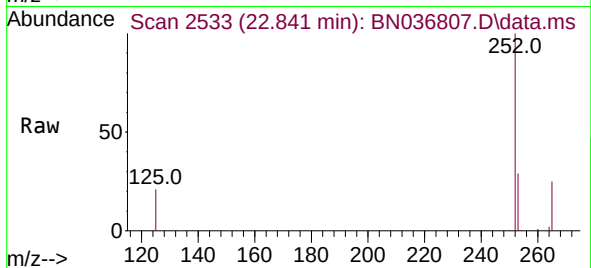
Tgt Ion:276 Resp: 5188
Ion Ratio Lower Upper
276 100
138 24.1 23.4 35.2
277 23.0 20.0 30.0



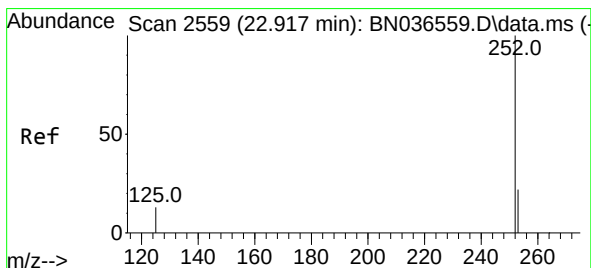
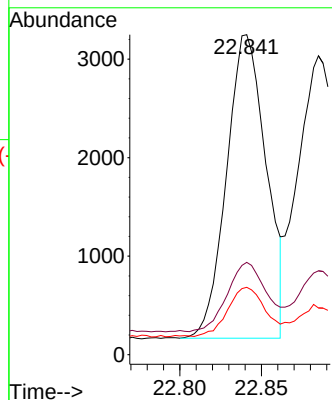
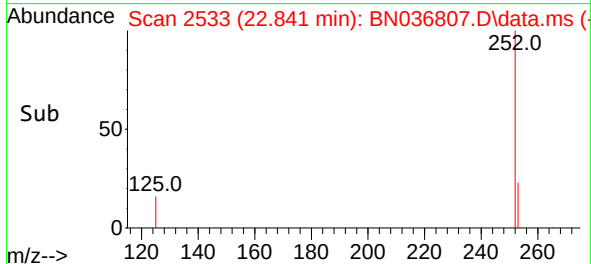


#37
Benzo(b)fluoranthene
Concen: 0.374 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.032 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21

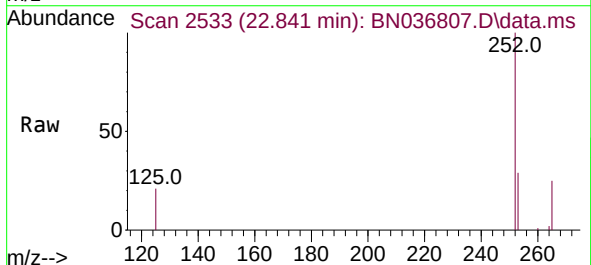
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



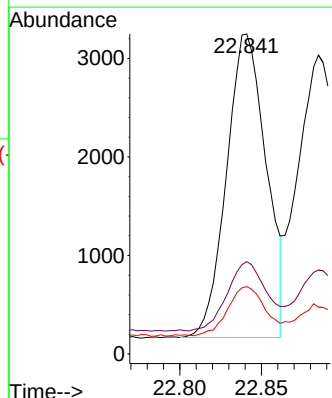
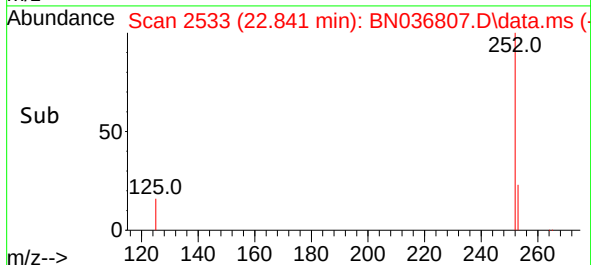
Tgt Ion:252 Resp: 5191
Ion Ratio Lower Upper
252 100
253 28.9 23.9 35.9
125 21.1 17.4 26.2

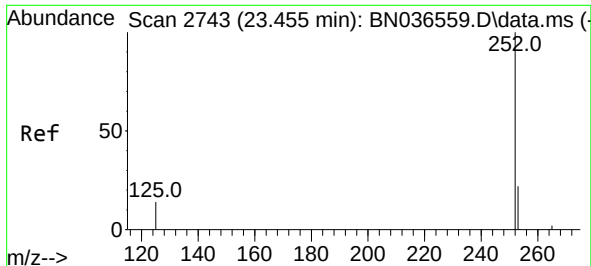


#38
Benzo(k)fluoranthene
Concen: 0.356 ng
RT: 22.841 min Scan# 2533
Delta R.T. -0.076 min
Lab File: BN036807.D
Acq: 29 Mar 2025 12:21



Tgt Ion:252 Resp: 5191
Ion Ratio Lower Upper
252 100
253 28.9 24.6 36.8
125 21.1 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 23.417 min Scan# 21

Delta R.T. -0.038 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

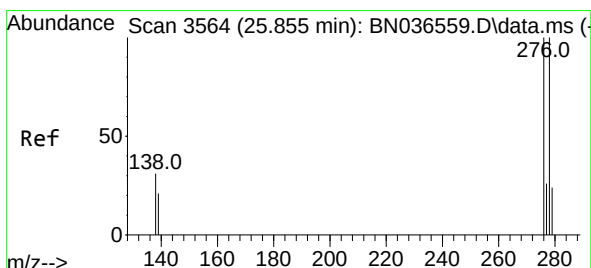
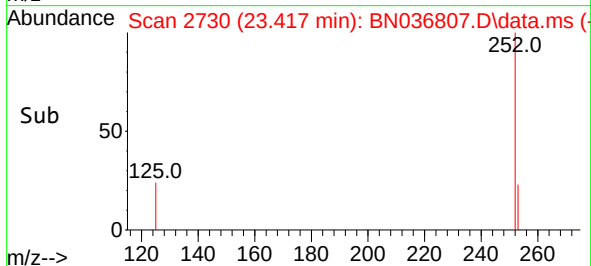
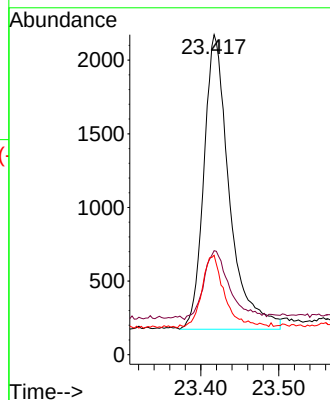
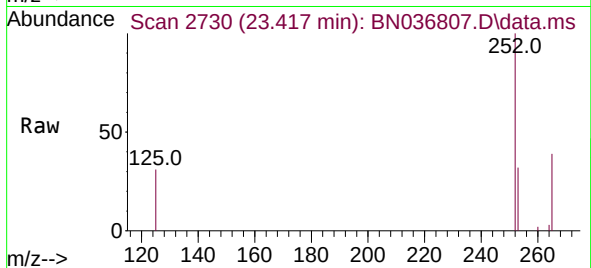
Tgt Ion:252 Resp: 4547

Ion Ratio Lower Upper

252 100

253 32.5 27.8 41.8

125 31.1 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.346 ng

RT: 25.800 min Scan# 3545

Delta R.T. -0.055 min

Lab File: BN036807.D

Acq: 29 Mar 2025 12:21

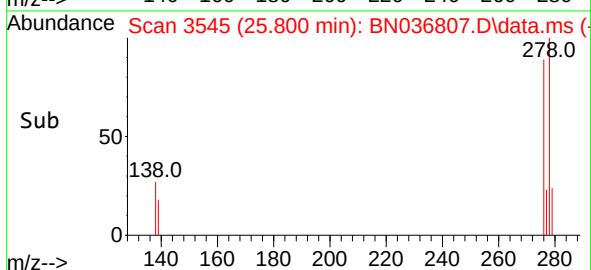
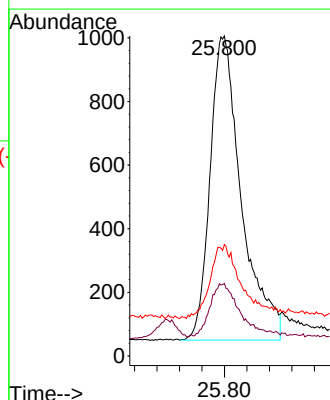
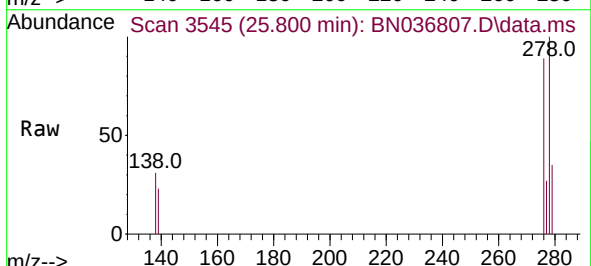
Tgt Ion:278 Resp: 3712

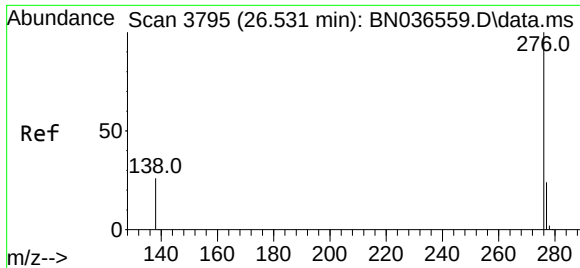
Ion Ratio Lower Upper

278 100

139 22.7 20.8 31.2

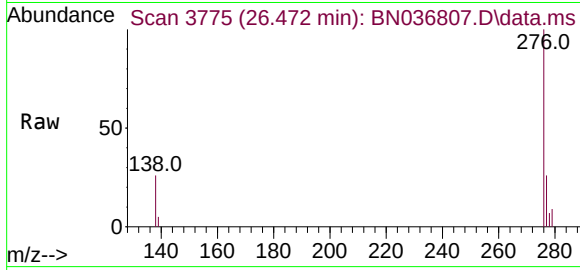
279 34.8 28.8 43.2



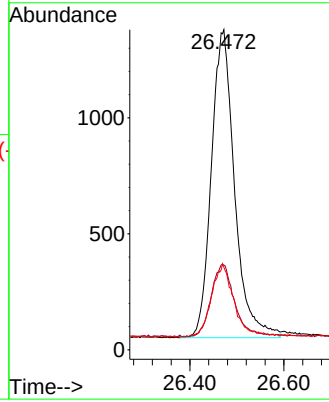
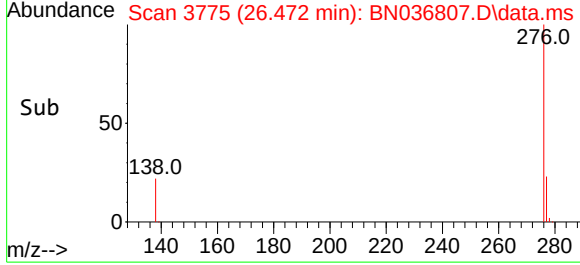


#41
 Benzo(g,h,i)perylene
 Concen: 0.371 ng
 RT: 26.472 min Scan# 31
 Delta R.T. -0.058 min
 Lab File: BN036807.D
 Acq: 29 Mar 2025 12:21

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



Tgt Ion:	276	Resp:	4558
Ion	Ratio	Lower	Upper
276	100		
277	26.4	22.2	33.4
138	25.8	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
 Data File : BN036809.D
 Acq On : 31 Mar 2025 10:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Mar 31 12:10:51 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

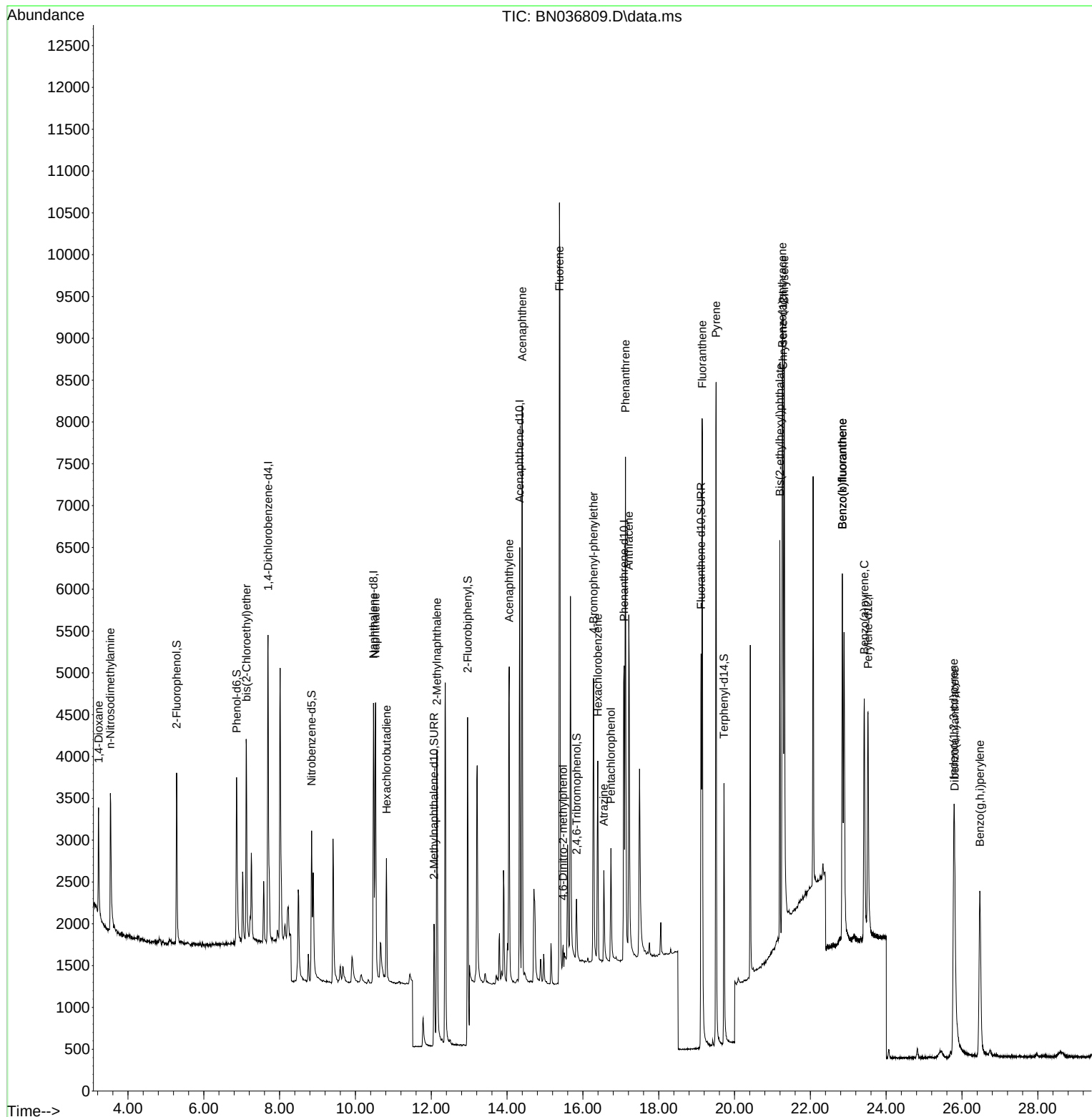
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.695	152	1888	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	4656	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	2798	0.400	ng	-0.03
19) Phenanthrene-d10	17.086	188	5809	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	4586	0.400	ng	#-0.02
35) Perylene-d12	23.522	264	3945	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.283	112	1544	0.351	ng	-0.03
5) Phenol-d6	6.865	99	1799	0.331	ng	-0.04
8) Nitrobenzene-d5	8.843	82	1689	0.333	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2501	0.361	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	451	0.355	ng	-0.02
15) 2-Fluorobiphenyl	12.958	172	5537	0.340	ng	-0.03
27) Fluoranthene-d10	19.118	212	5750	0.386	ng	-0.02
31) Terphenyl-d14	19.722	244	3660	0.333	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.225	88	857	0.409	ng	Qvalue 96
3) n-Nitrosodimethylamine	3.535	42	1677	0.396	ng	93
6) bis(2-Chloroethyl)ether	7.125	93	1889	0.336	ng	98
9) Naphthalene	10.530	128	4851	0.354	ng	99
10) Hexachlorobutadiene	10.818	225	1142	0.354	ng	# 98
12) 2-Methylnaphthalene	12.151	142	3144	0.361	ng	99
16) Acenaphthylene	14.056	152	4617	0.350	ng	99
17) Acenaphthene	14.398	154	3162	0.366	ng	99
18) Fluorene	15.382	166	4232	0.362	ng	99
20) 4,6-Dinitro-2-methylph...	15.478	198	405	0.419	ng	86
21) 4-Bromophenyl-phenylether	16.280	248	1292	0.355	ng	93
22) Hexachlorobenzene	16.391	284	1587	0.361	ng	97
23) Atrazine	16.553	200	1096	0.376	ng	98
24) Pentachlorophenol	16.739	266	743	0.371	ng	98
25) Phenanthrene	17.124	178	6581	0.378	ng	100
26) Anthracene	17.211	178	5583	0.355	ng	100
28) Fluoranthene	19.150	202	7591	0.388	ng	99
30) Pyrene	19.513	202	7799	0.348	ng	100
32) Benzo(a)anthracene	21.259	228	5377	0.337	ng	98
33) Chrysene	21.313	228	6640	0.381	ng	98
34) Bis(2-ethylhexyl)phtha...	21.196	149	4143	0.365	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.782	276	5019	0.352	ng	94
37) Benzo(b)fluoranthene	22.844	252	5495	0.383	ng	98
38) Benzo(k)fluoranthene	22.844	252	5495	0.365	ng	97
39) Benzo(a)pyrene	23.423	252	4679	0.387	ng	96
40) Dibenzo(a,h)anthracene	25.805	278	3655	0.330	ng	99
41) Benzo(g,h,i)perylene	26.472	276	4543	0.358	ng	97

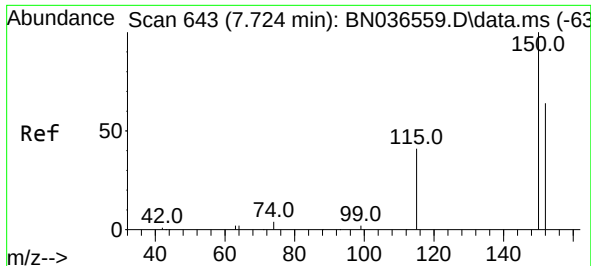
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036809.D
Acq On : 31 Mar 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Mar 31 12:10:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



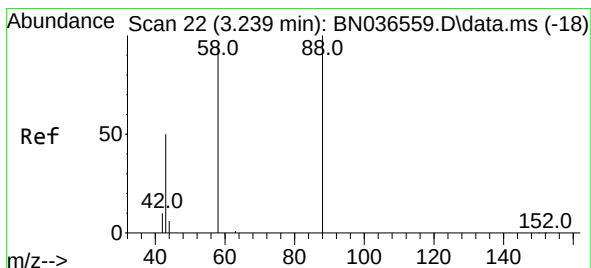
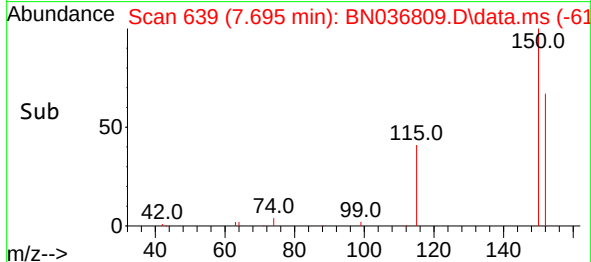
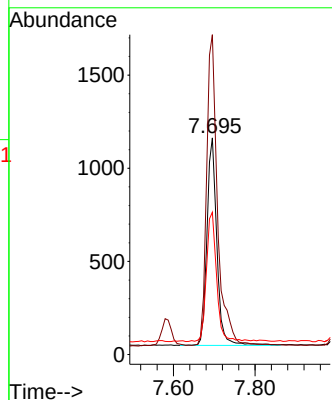
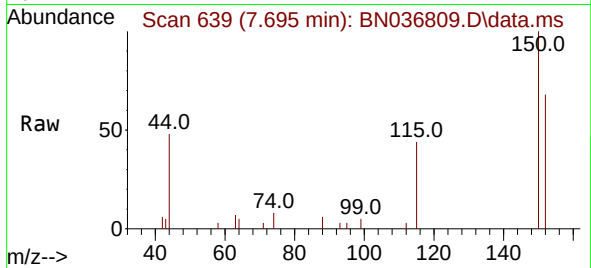


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.695 min Scan# 61
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 152 Resp: 1888

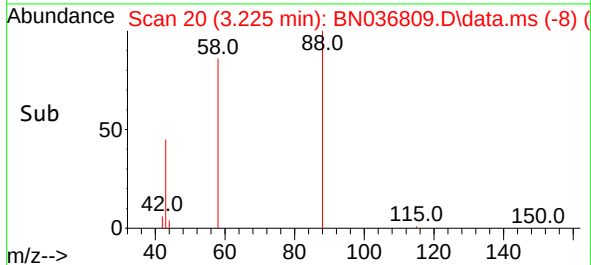
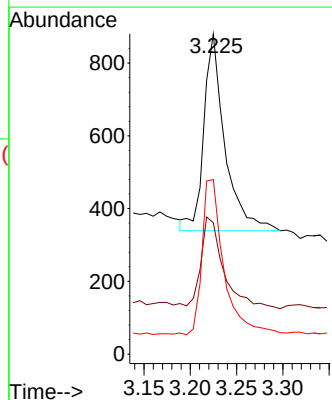
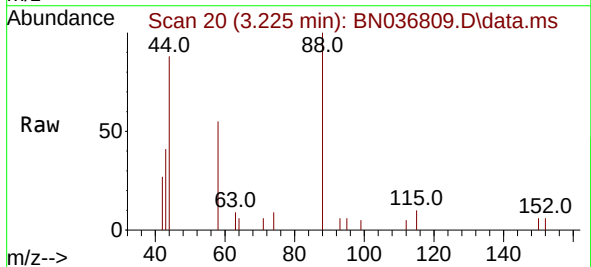
Ion	Ratio	Lower	Upper
152	100		
150	147.6	123.7	185.5
115	65.7	54.3	81.5

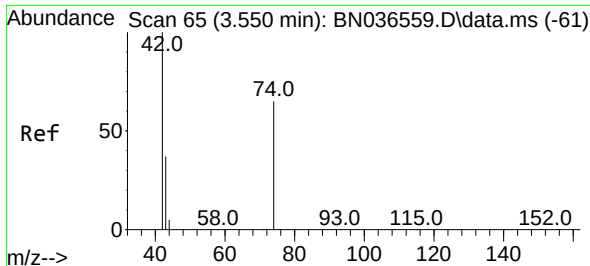


#2
1,4-Dioxane
Concen: 0.409 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion: 88 Resp: 857

Ion	Ratio	Lower	Upper
88	100		
43	50.1	37.8	56.8
58	80.6	67.4	101.2

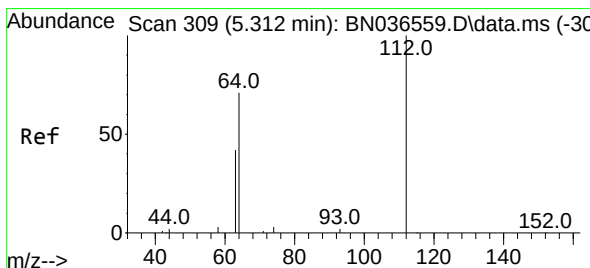
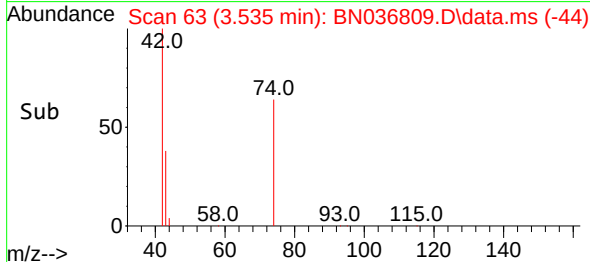
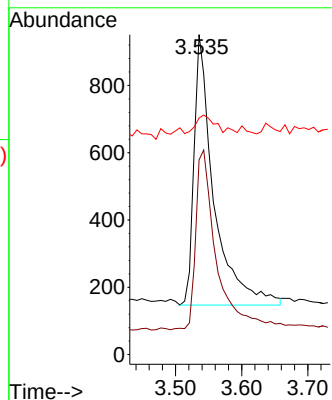
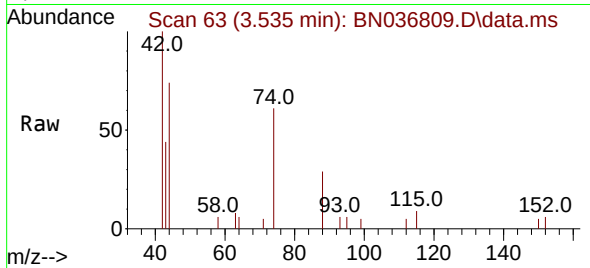




#3
 n-Nitrosodimethylamine
 Concen: 0.396 ng
 RT: 3.535 min Scan# 61
 Delta R.T. -0.014 min
 Lab File: BN036809.D
 Acq: 31 Mar 2025 10:39

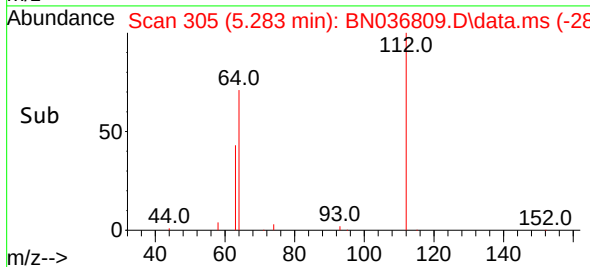
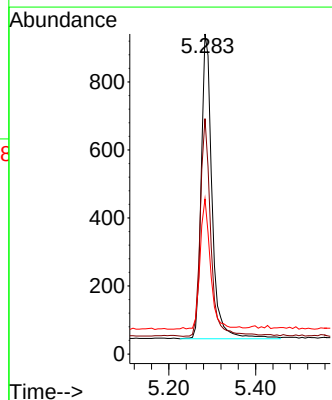
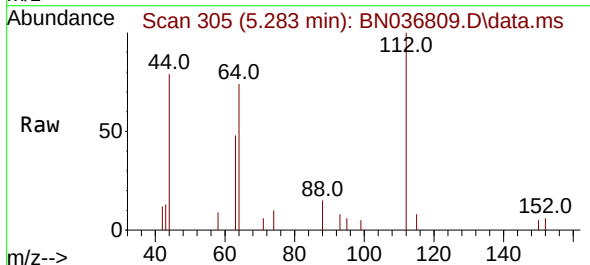
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

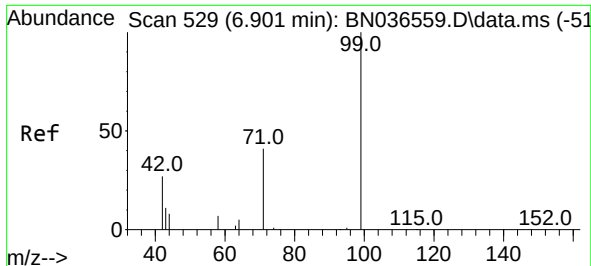
Tgt Ion: 42 Resp: 1677
 Ion Ratio Lower Upper
 42 100
 74 69.2 60.6 90.8
 44 8.2 6.3 9.5



#4
 2-Fluorophenol
 Concen: 0.351 ng
 RT: 5.283 min Scan# 305
 Delta R.T. -0.029 min
 Lab File: BN036809.D
 Acq: 31 Mar 2025 10:39

Tgt Ion: 112 Resp: 1544
 Ion Ratio Lower Upper
 112 100
 64 69.6 53.1 79.7
 63 40.8 31.8 47.8

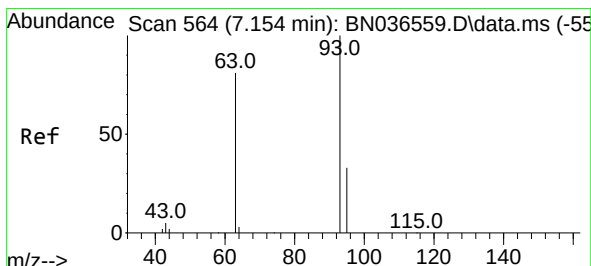
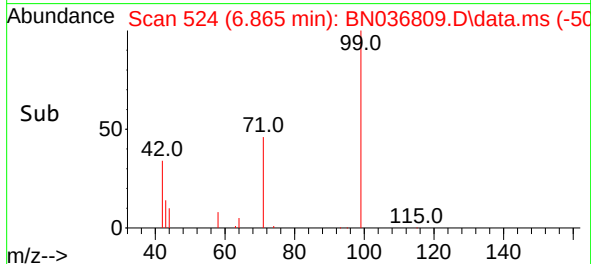
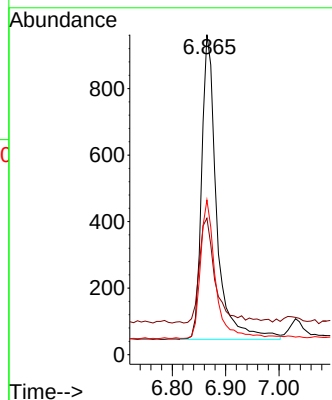
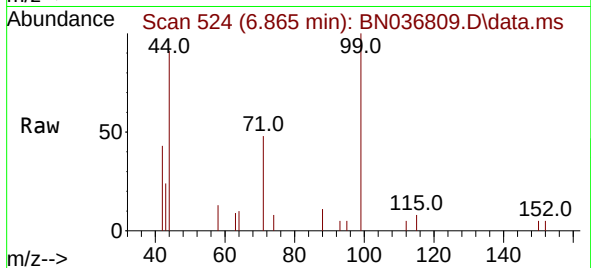




#5
Phenol-d6
Concen: 0.331 ng
RT: 6.865 min Scan# 51
Delta R.T. -0.036 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

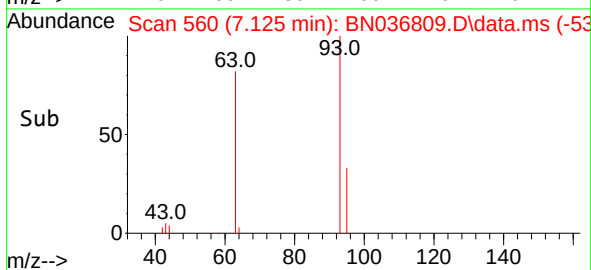
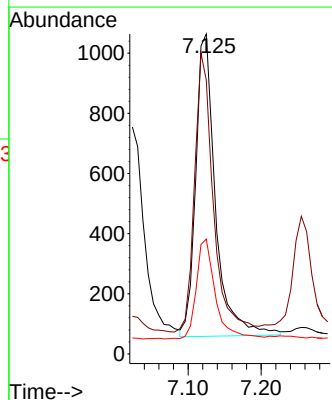
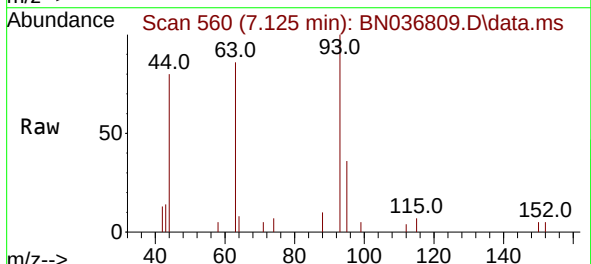
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

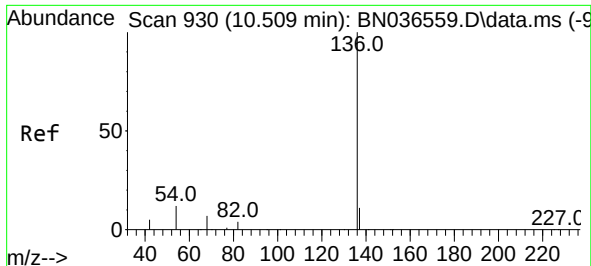
Tgt Ion:	99	Resp:	1799
Ion	Ratio	Lower	Upper
99	100		
42	37.9	26.5	39.7
71	44.8	34.1	51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.336 ng
RT: 7.125 min Scan# 560
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:	93	Resp:	1889
Ion	Ratio	Lower	Upper
93	100		
63	87.3	67.7	101.5
95	31.9	25.6	38.4

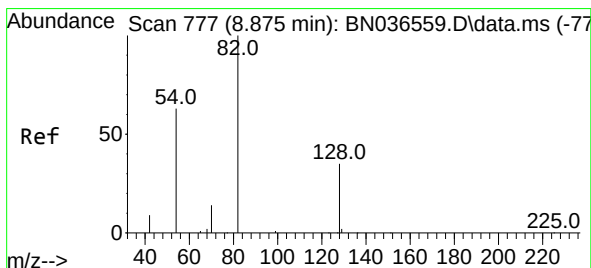
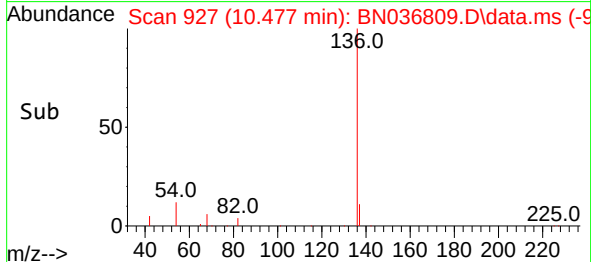
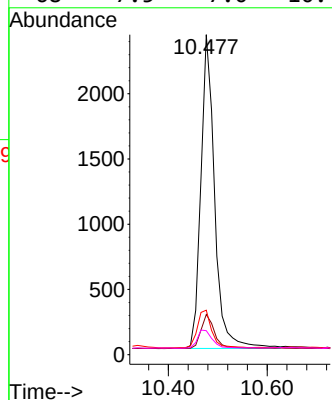
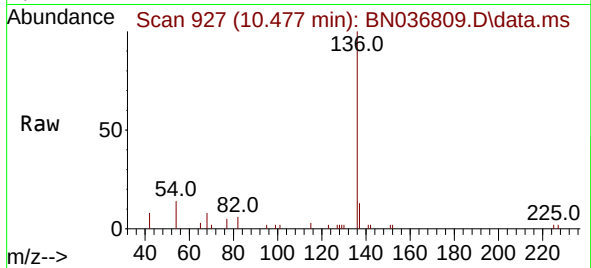




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

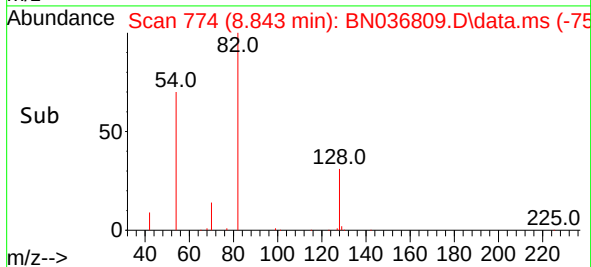
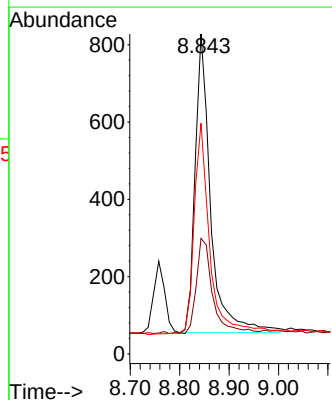
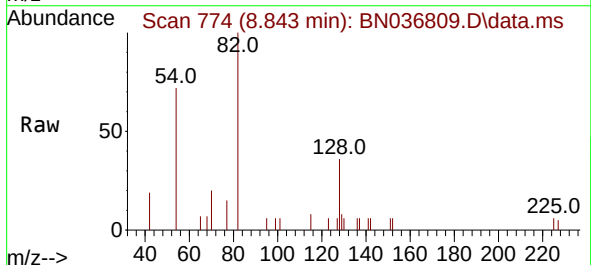
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

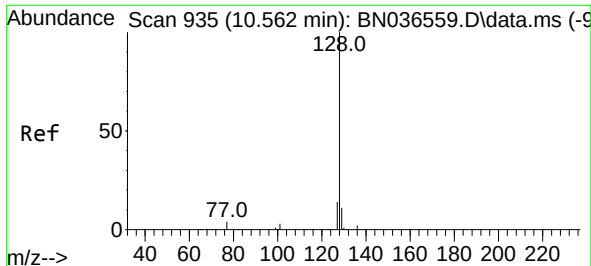
Tgt Ion:	136	Resp:	4656
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.3	15.5
54	13.9	11.5	17.3
68	7.5	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.333 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:	82	Resp:	1689
Ion	Ratio	Lower	Upper
82	100		
128	36.1	30.6	45.8
54	72.1	52.2	78.4

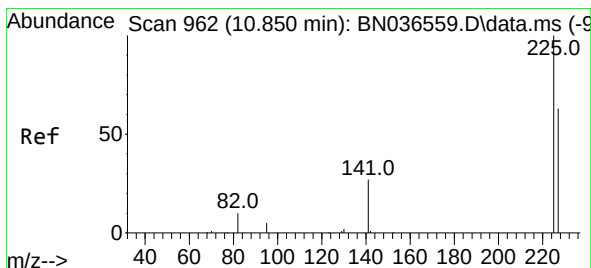
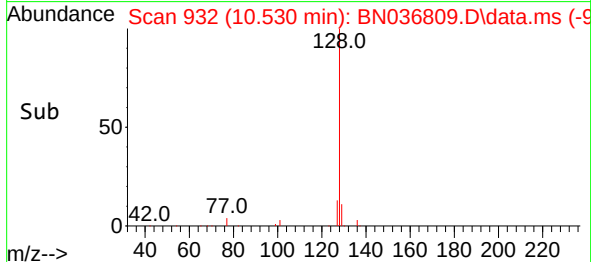
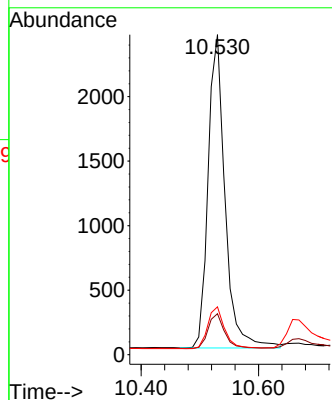
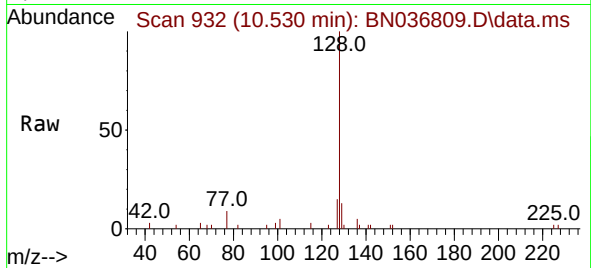




#9
Naphthalene
Concen: 0.354 ng
RT: 10.530 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

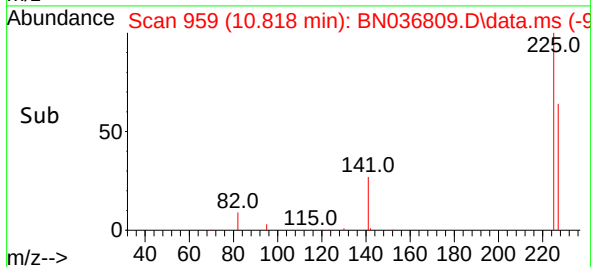
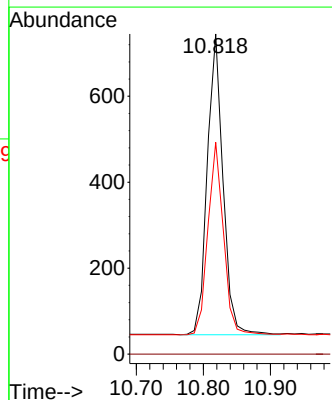
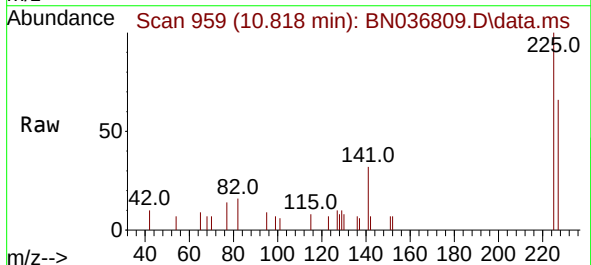
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

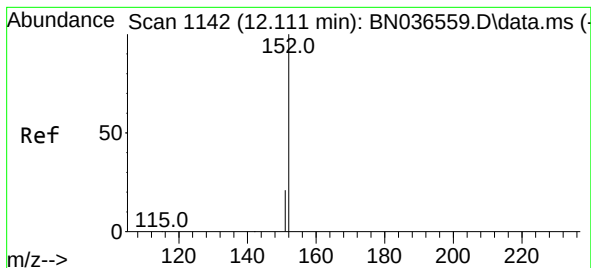
Tgt Ion:	128	Resp:	4851
Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.8	14.6
127	15.0	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.354 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:	225	Resp:	1142
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.1	51.8	77.8

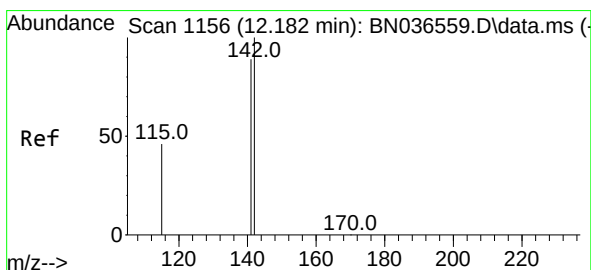
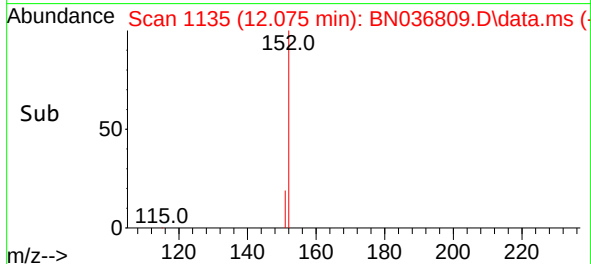
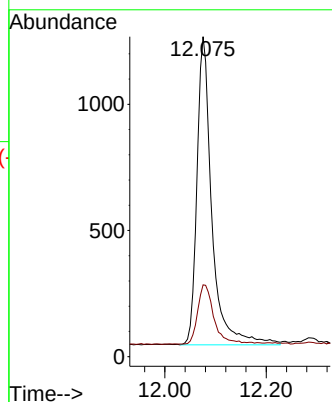
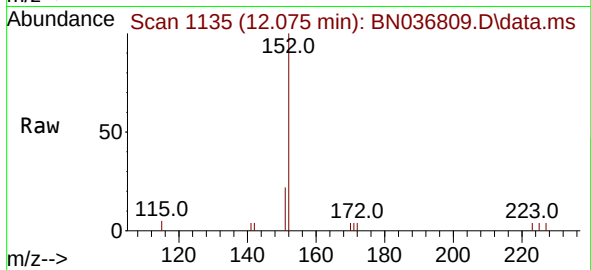




#11
2-Methylnaphthalene-d10
Concen: 0.361 ng
RT: 12.075 min Scan# 1142
Delta R.T. -0.035 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

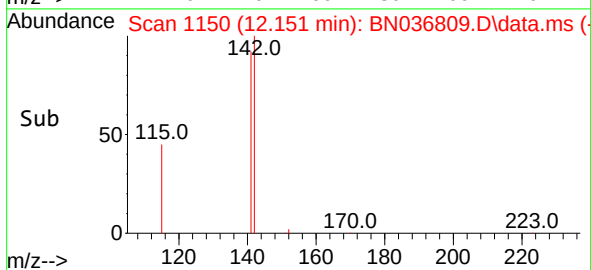
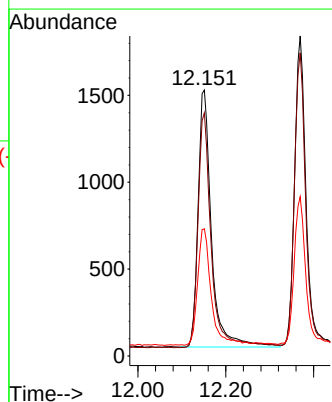
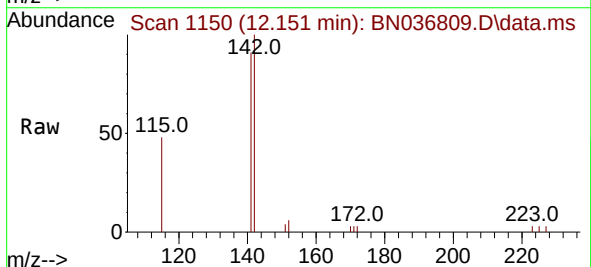
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

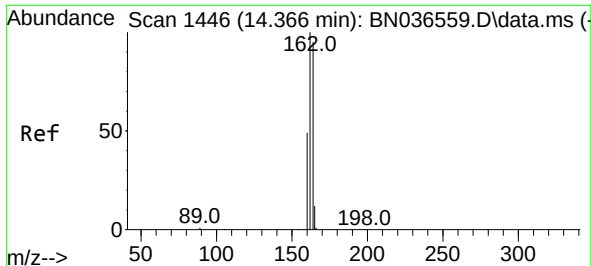
Tgt Ion:152 Resp: 2501
Ion Ratio Lower Upper
152 100
151 20.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.361 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:142 Resp: 3144
Ion Ratio Lower Upper
142 100
141 91.4 71.7 107.5
115 47.8 38.3 57.5

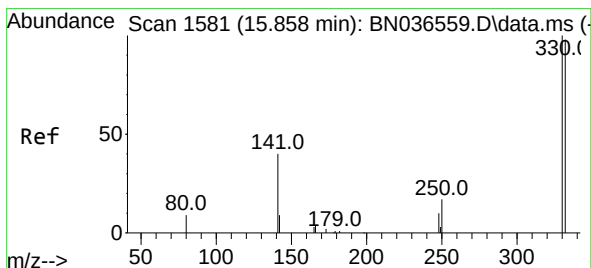
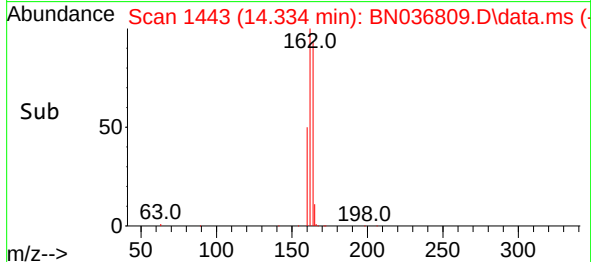
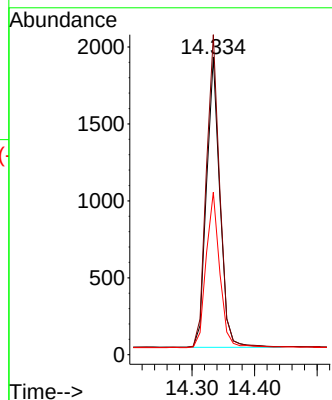
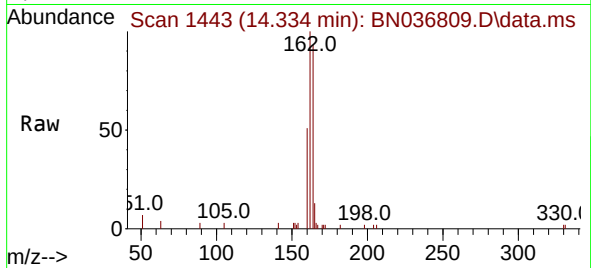




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

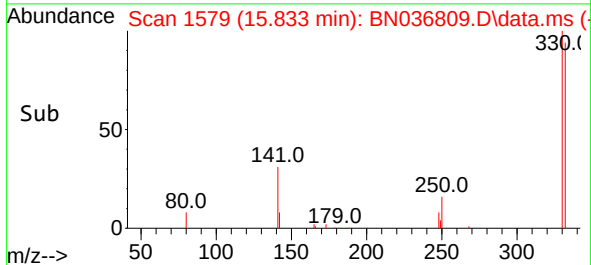
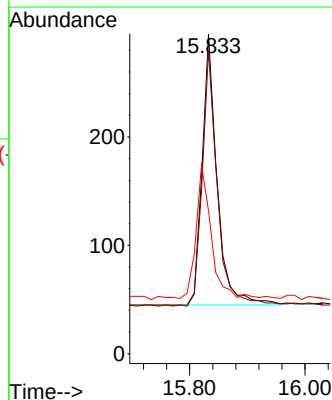
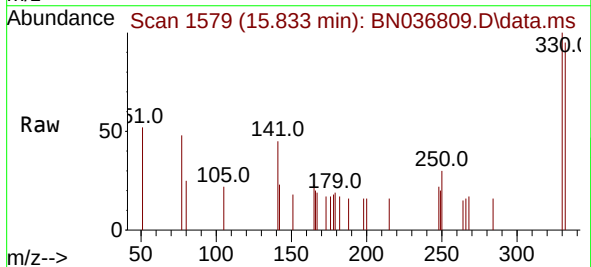
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

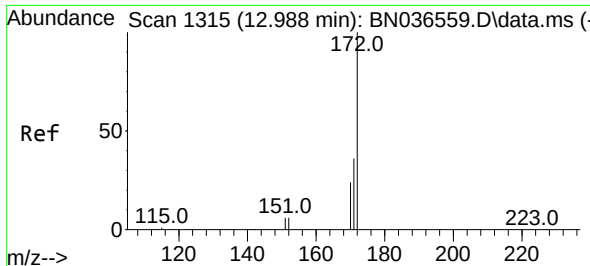
Tgt Ion:164 Resp: 2798
Ion Ratio Lower Upper
164 100
162 107.5 84.2 126.2
160 54.6 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:330 Resp: 451
Ion Ratio Lower Upper
330 100
332 95.3 75.2 112.8
141 53.9 43.4 65.2

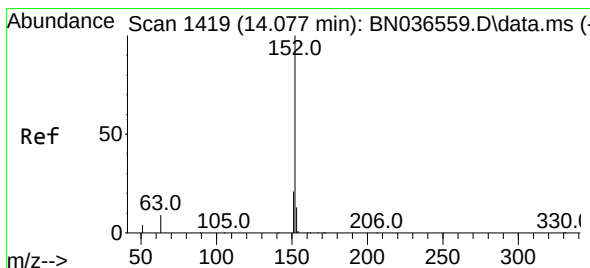
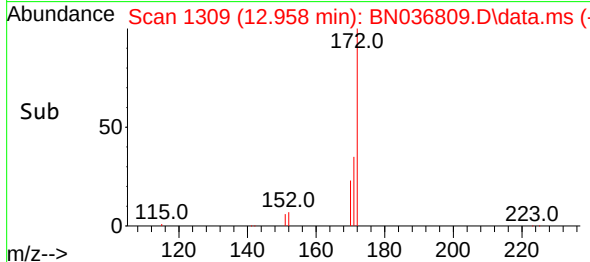
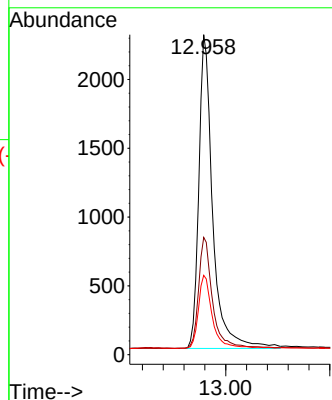
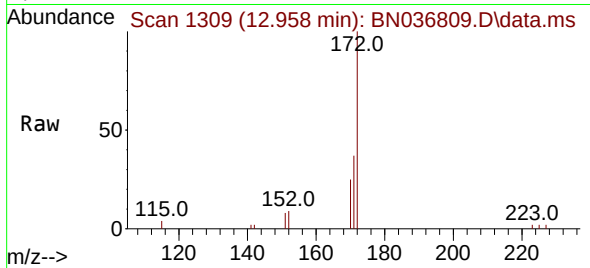




#15
2-Fluorobiphenyl
Concen: 0.340 ng
RT: 12.958 min Scan# 11
Delta R.T. -0.030 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

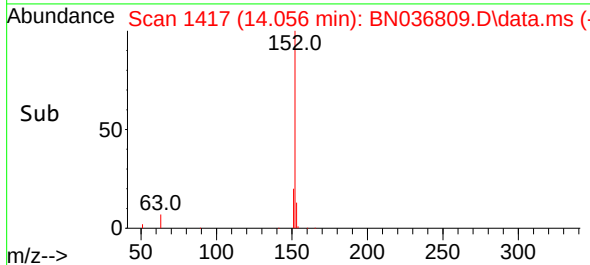
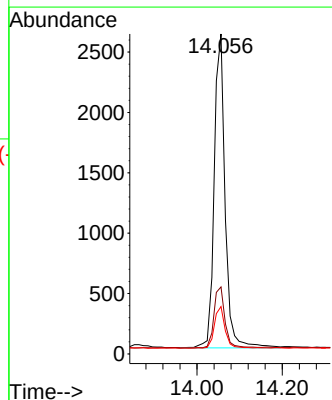
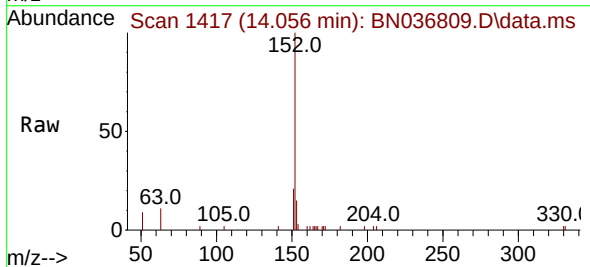
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

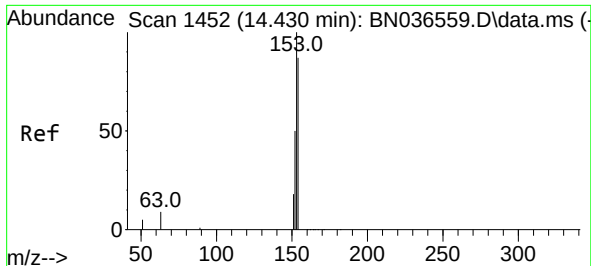
Tgt Ion:	172	Resp:	5537
Ion Ratio	Lower	Upper	
172	100		
171	36.6	29.5	44.3
170	24.8	20.2	30.4



#16
Acenaphthylene
Concen: 0.350 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:	152	Resp:	4617
Ion Ratio	Lower	Upper	
152	100		
151	19.5	16.2	24.4
153	13.2	10.6	15.8

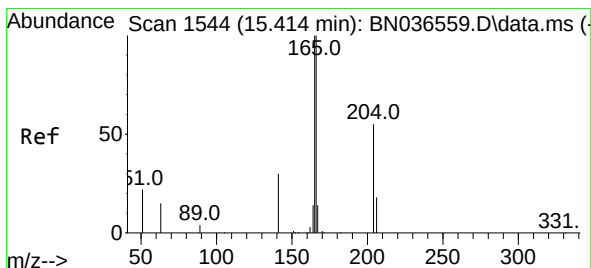
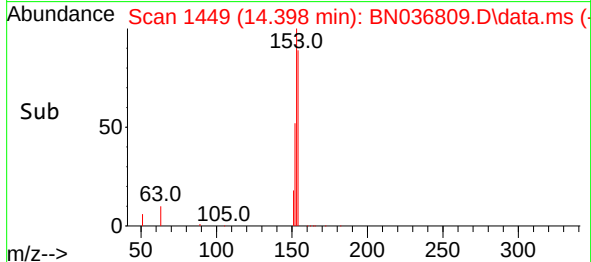
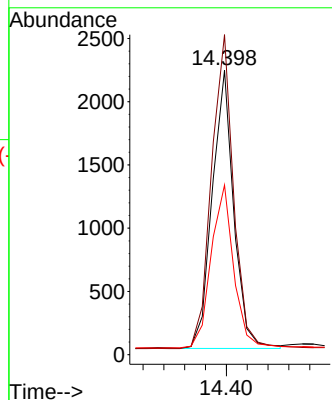
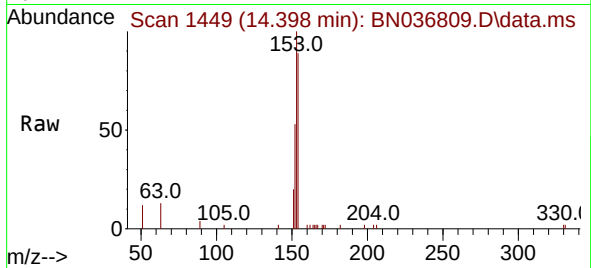




#17
Acenaphthene
Concen: 0.366 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

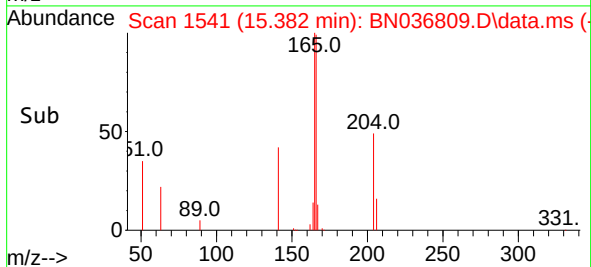
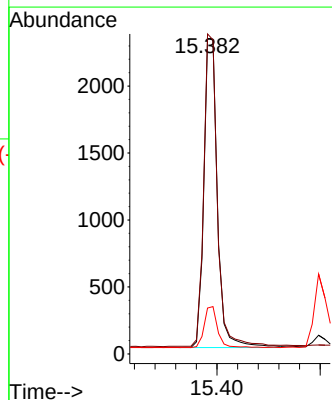
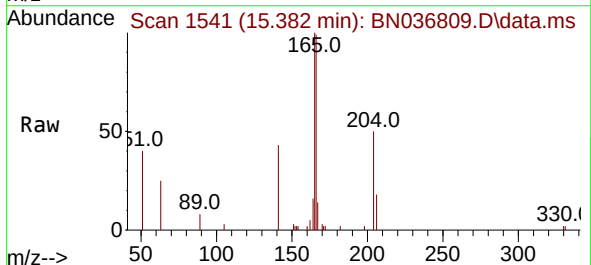
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

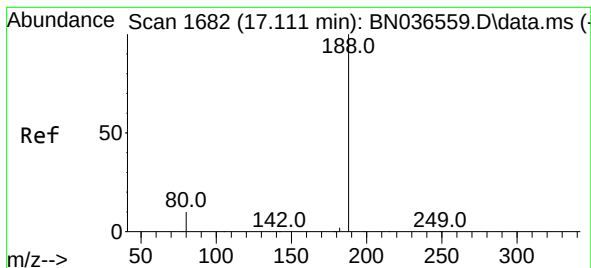
Tgt Ion:154 Resp: 3162
Ion Ratio Lower Upper
154 100
153 116.9 94.1 141.1
152 62.4 49.8 74.6



#18
Fluorene
Concen: 0.362 ng
RT: 15.382 min Scan# 1541
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:166 Resp: 4232
Ion Ratio Lower Upper
166 100
165 100.4 79.8 119.8
167 13.2 10.6 15.8

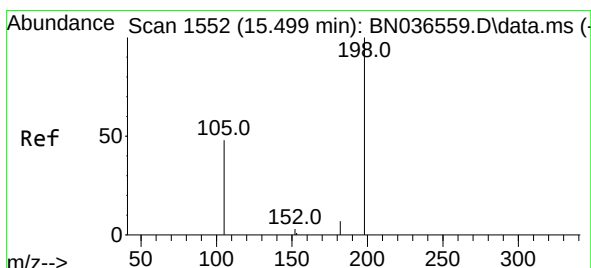
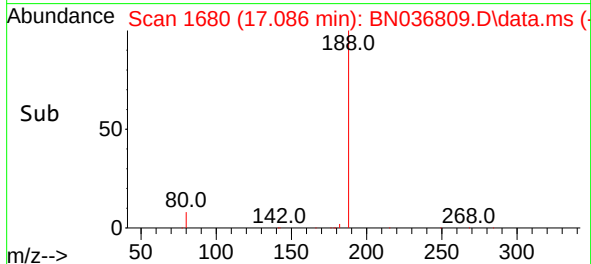
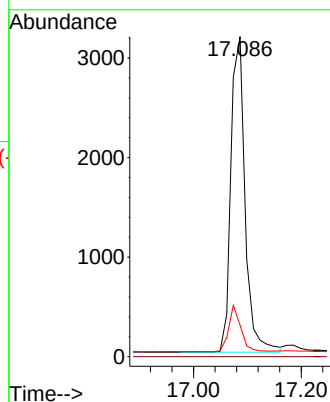
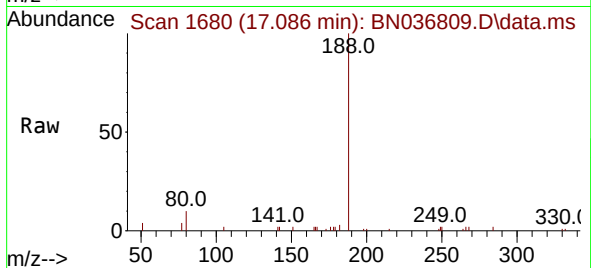




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

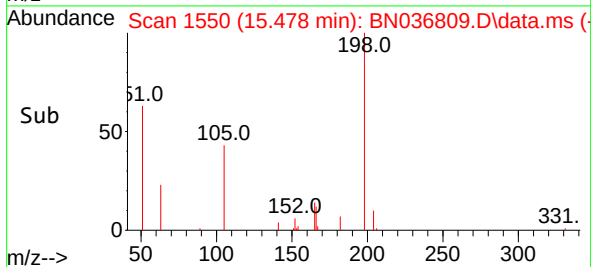
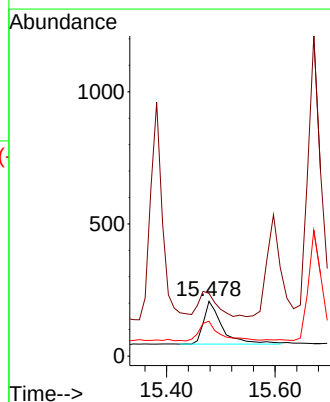
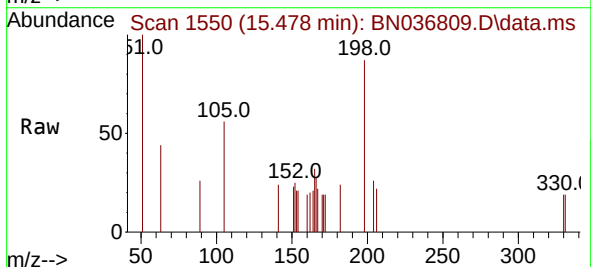
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

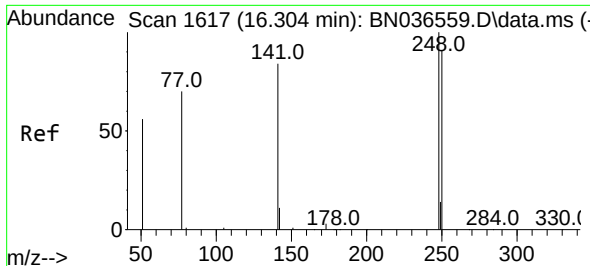
Tgt Ion:188 Resp: 5809
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.9 8.8 13.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.419 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:198 Resp: 405
Ion Ratio Lower Upper
198 100
51 114.5 107.9 161.9
105 63.8 56.2 84.2

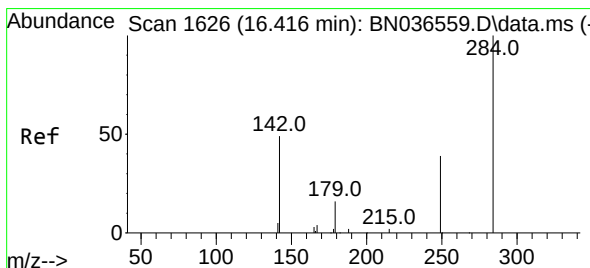
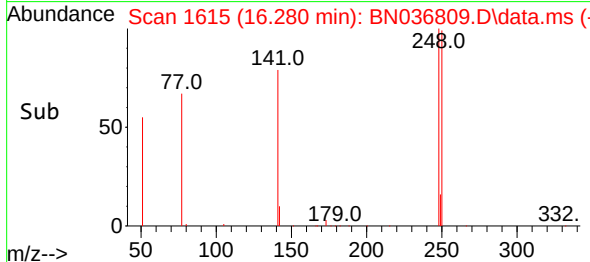
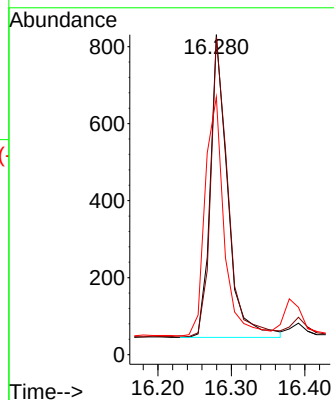
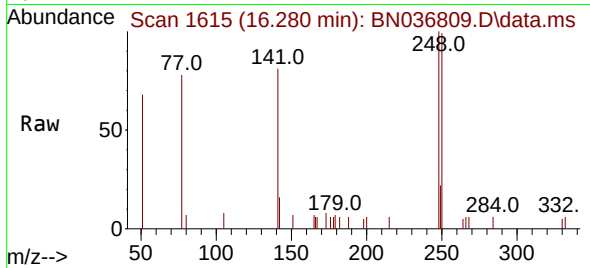




#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

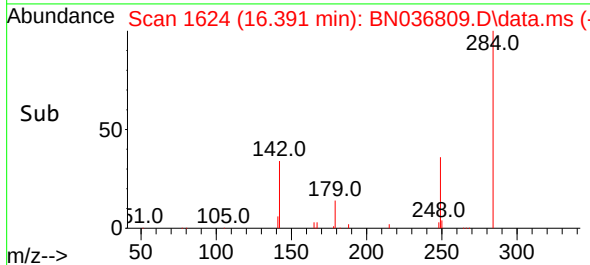
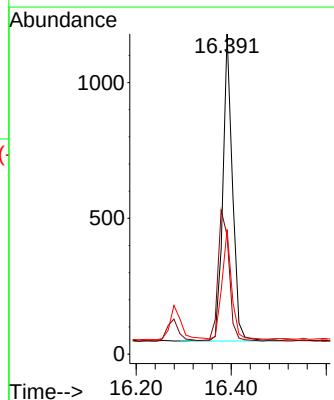
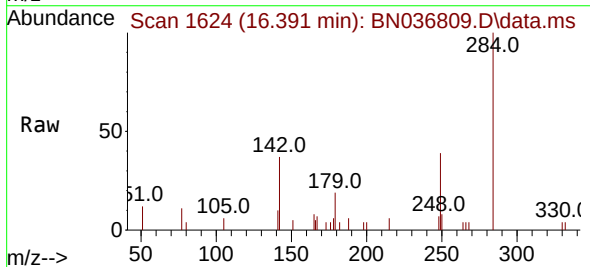
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

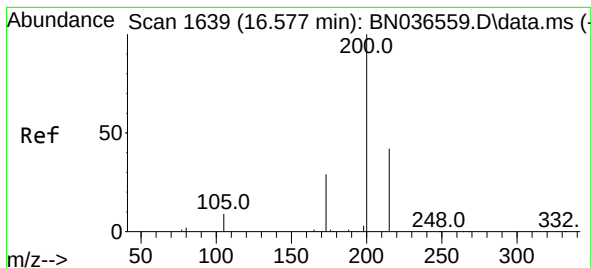
Tgt Ion:	248	Resp:	1292
Ion Ratio	Lower	Upper	
248	100		
250	99.2	73.0	109.6
141	80.5	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.361 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:	284	Resp:	1587
Ion Ratio	Lower	Upper	
284	100		
142	49.0	37.0	55.4
249	35.5	28.1	42.1





#23

Atrazine

Concen: 0.376 ng

RT: 16.553 min Scan# 1

Delta R.T. -0.025 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

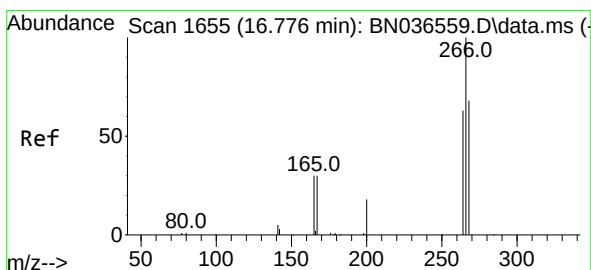
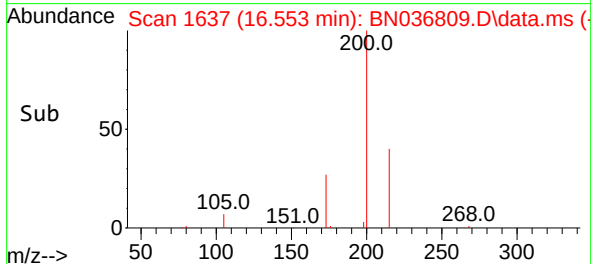
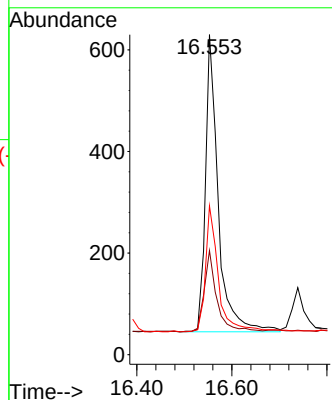
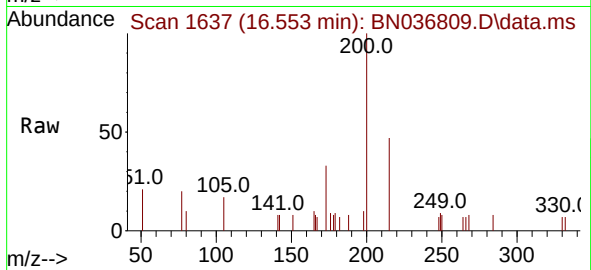
Tgt Ion:200 Resp: 1096

Ion Ratio Lower Upper

200 100

173 32.5 27.3 40.9

215 46.5 36.8 55.2



#24

Pentachlorophenol

Concen: 0.371 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.037 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

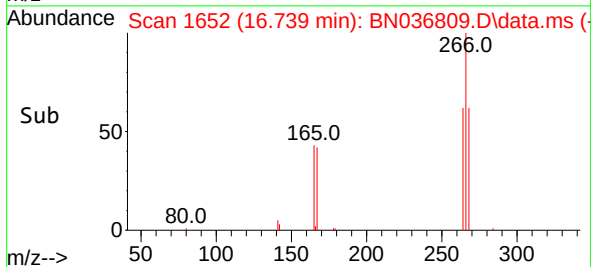
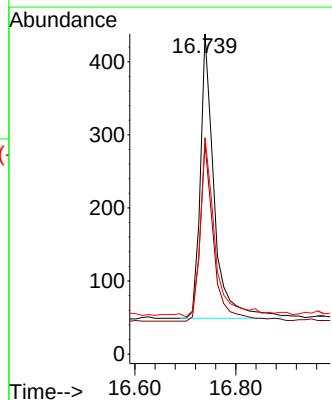
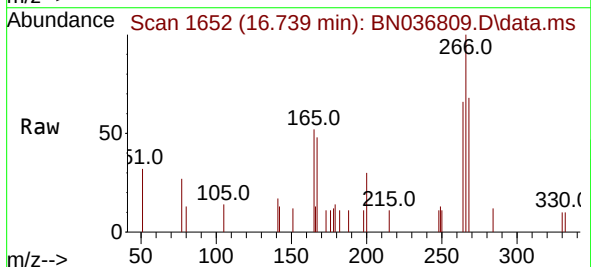
Tgt Ion:266 Resp: 743

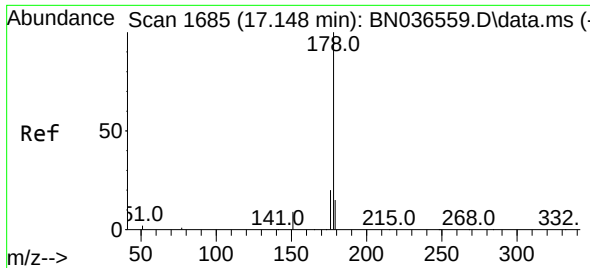
Ion Ratio Lower Upper

266 100

264 61.8 49.6 74.4

268 66.6 50.9 76.3

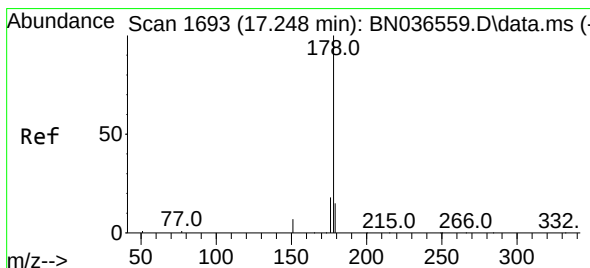
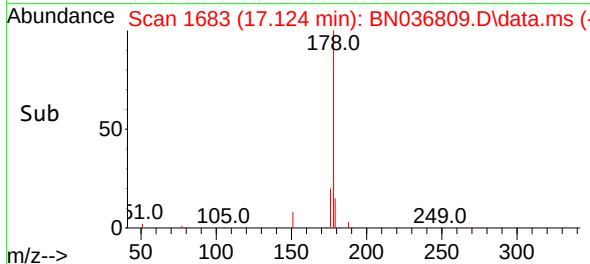
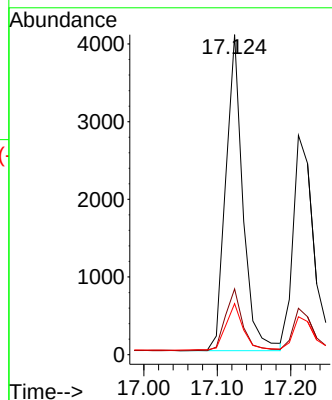
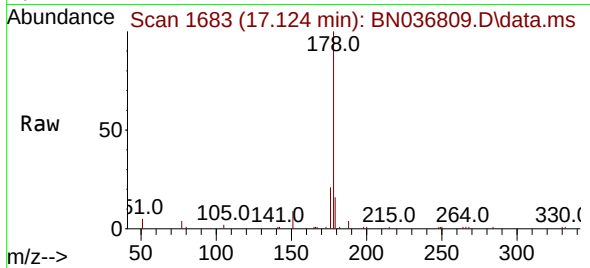




#25
 Phenanthrene
 Concen: 0.378 ng
 RT: 17.124 min Scan# 1683
 Delta R.T. -0.025 min
 Lab File: BN036809.D
 Acq: 31 Mar 2025 10:39

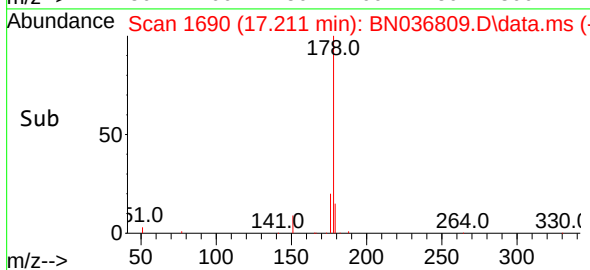
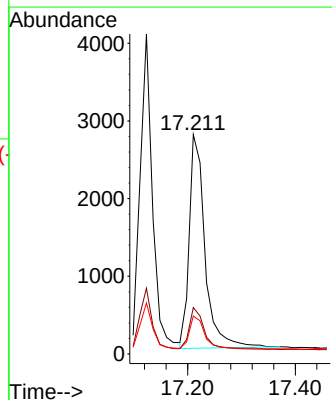
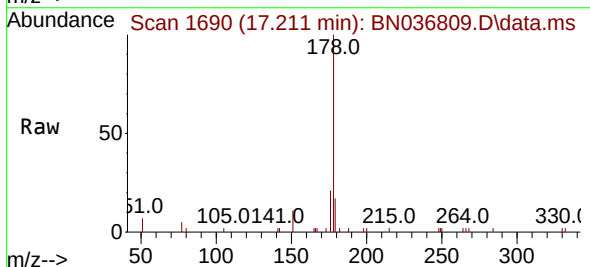
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

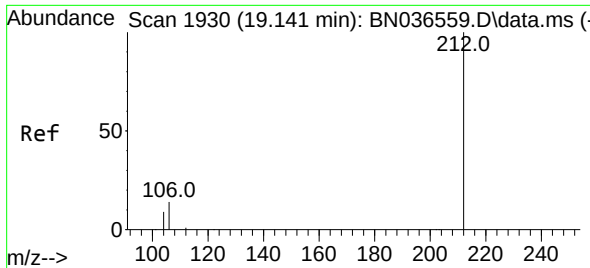
Tgt Ion:178 Resp: 6581
 Ion Ratio Lower Upper
 178 100
 176 19.7 15.9 23.9
 179 15.1 12.2 18.4



#26
 Anthracene
 Concen: 0.355 ng
 RT: 17.211 min Scan# 1690
 Delta R.T. -0.037 min
 Lab File: BN036809.D
 Acq: 31 Mar 2025 10:39

Tgt Ion:178 Resp: 5583
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.4 23.2
 179 15.3 12.6 18.8

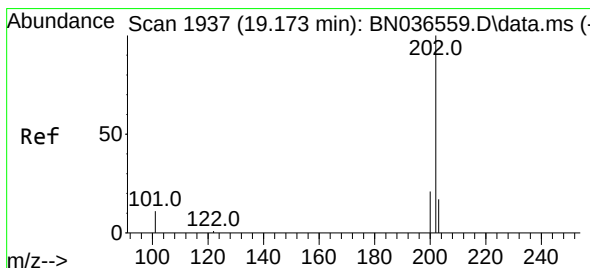
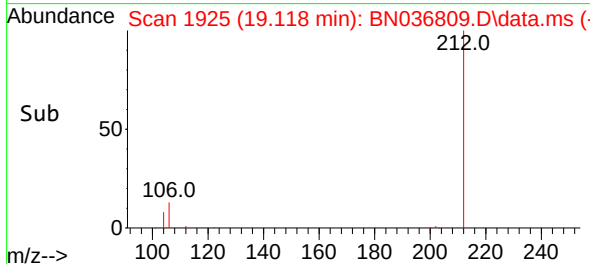
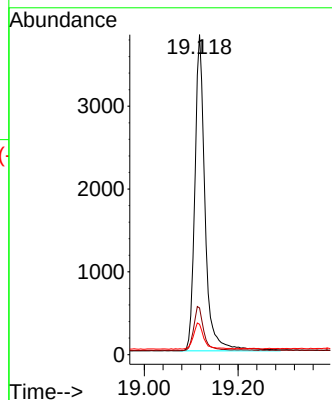
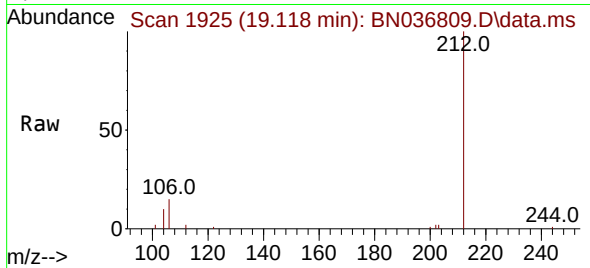




#27
Fluoranthene-d10
Concen: 0.386 ng
RT: 19.118 min Scan# 1918
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

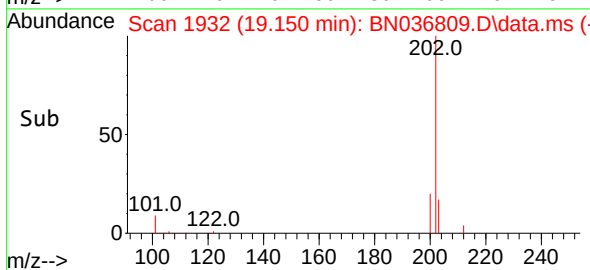
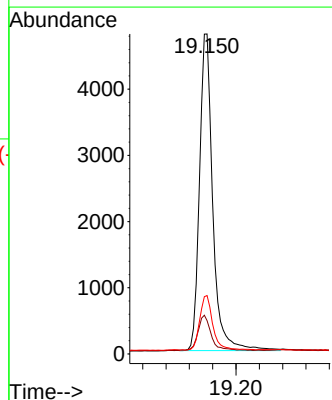
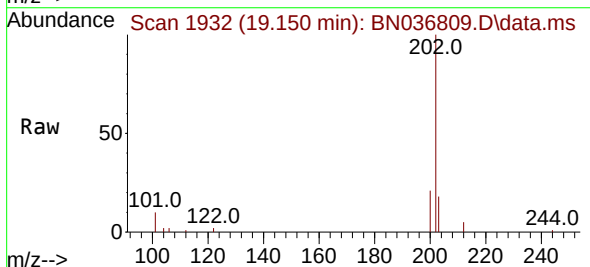
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

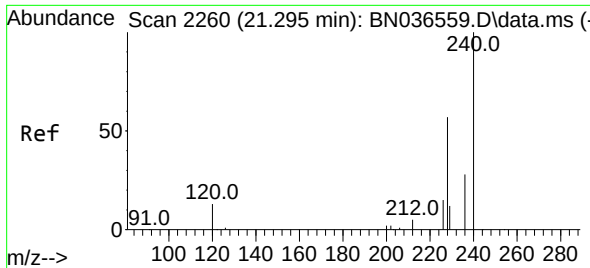
Tgt Ion:212 Resp: 5750
Ion Ratio Lower Upper
212 100
106 13.6 11.8 17.6
104 8.5 7.3 10.9



#28
Fluoranthene
Concen: 0.388 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:202 Resp: 7591
Ion Ratio Lower Upper
202 100
101 11.2 9.4 14.0
203 17.1 13.5 20.3

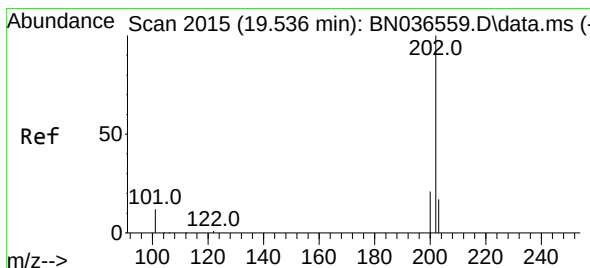
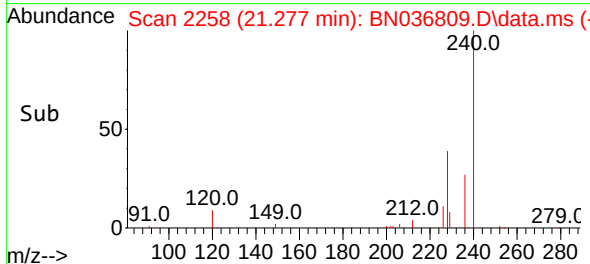
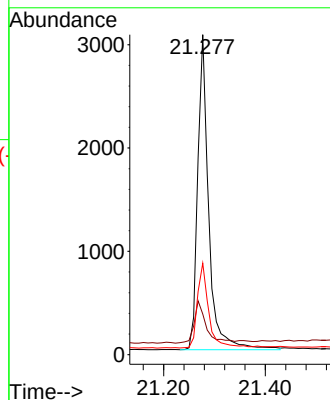
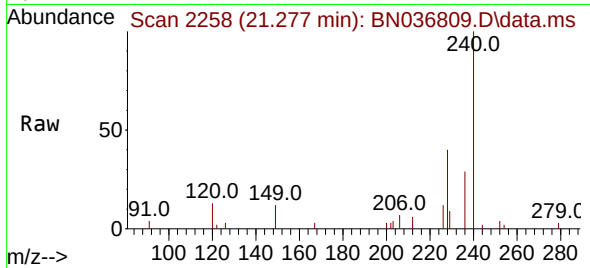




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

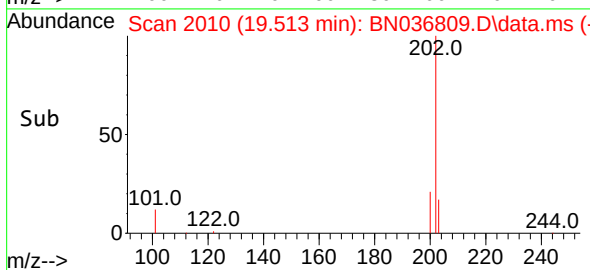
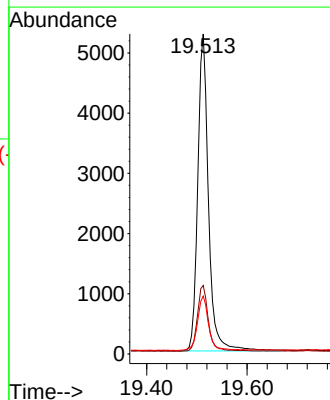
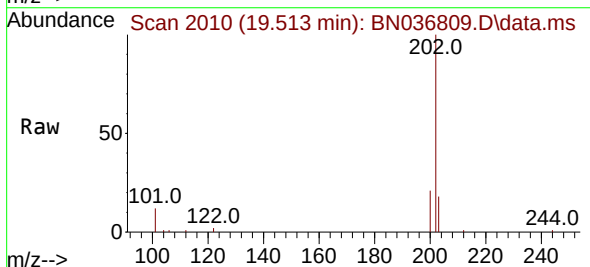
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

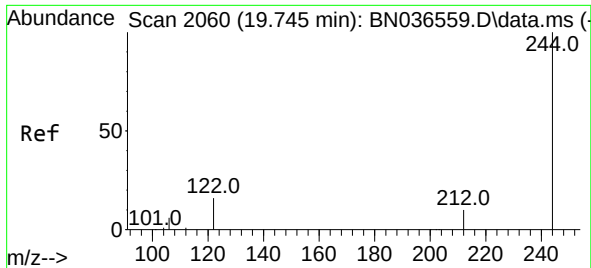
Tgt Ion:240 Resp: 4586
Ion Ratio Lower Upper
240 100
120 12.7 14.6 22.0#
236 28.6 24.1 36.1



#30
Pyrene
Concen: 0.348 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:202 Resp: 7799
Ion Ratio Lower Upper
202 100
200 21.1 17.1 25.7
203 17.5 14.1 21.1

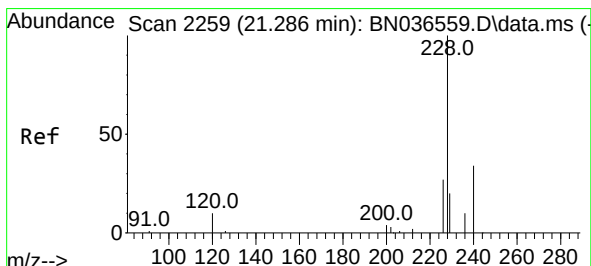
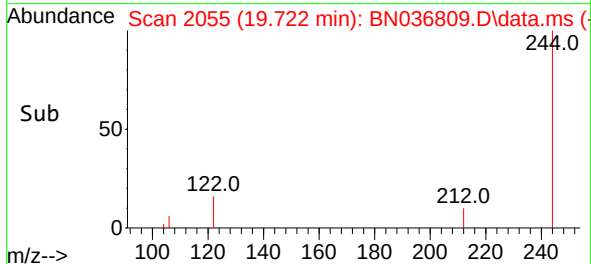
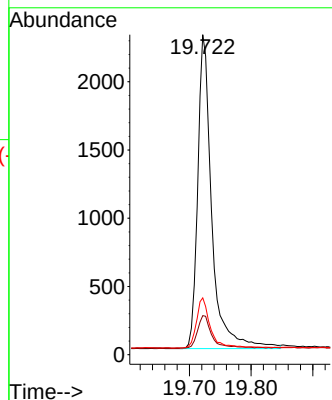
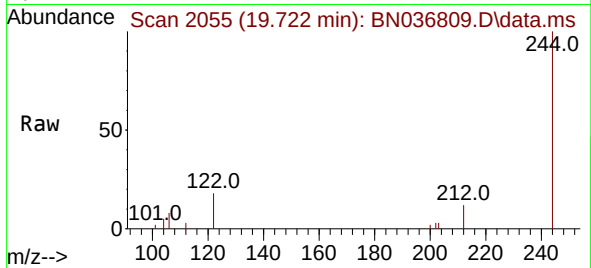




#31
Terphenyl-d14
Concen: 0.333 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.023 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

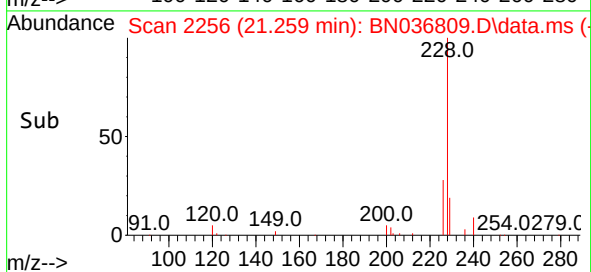
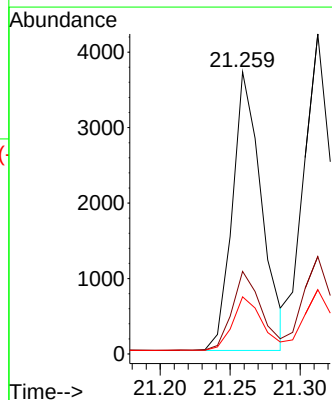
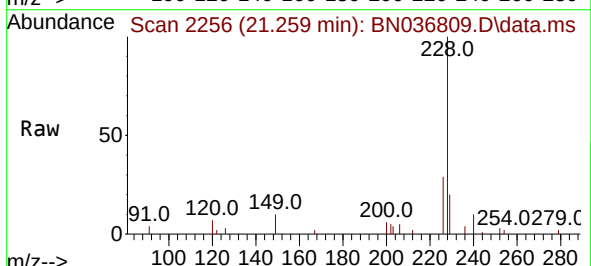
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

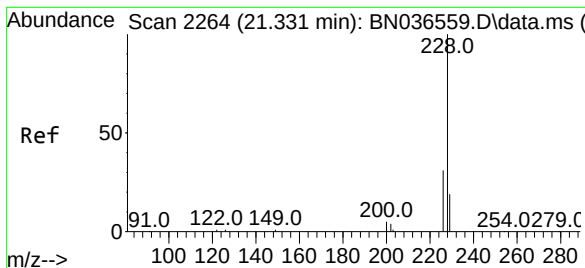
Tgt Ion:244 Resp: 3660
Ion Ratio Lower Upper
244 100
212 12.2 9.6 14.4
122 17.7 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.337 ng
RT: 21.259 min Scan# 2256
Delta R.T. -0.027 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:228 Resp: 5377
Ion Ratio Lower Upper
228 100
226 29.3 22.5 33.7
229 20.2 16.6 25.0





#33

Chrysene

Concen: 0.381 ng

RT: 21.313 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

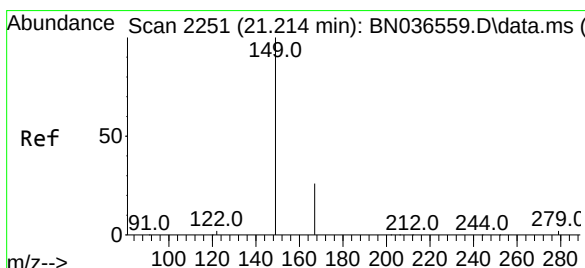
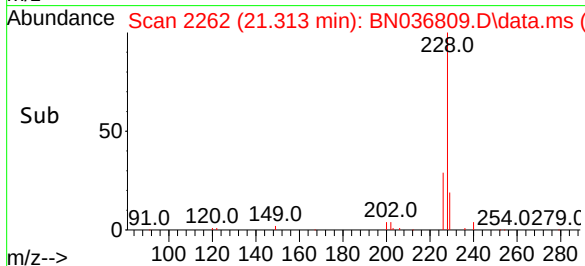
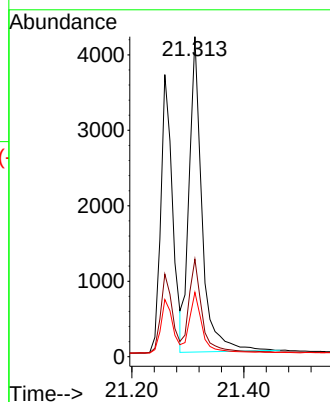
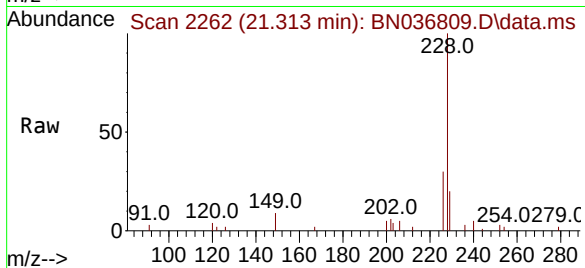
Tgt Ion:228 Resp: 6640

Ion Ratio Lower Upper

228 100

226 30.4 25.3 37.9

229 20.1 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.365 ng

RT: 21.196 min Scan# 2249

Delta R.T. -0.018 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

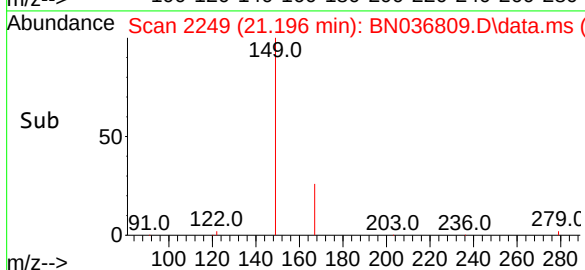
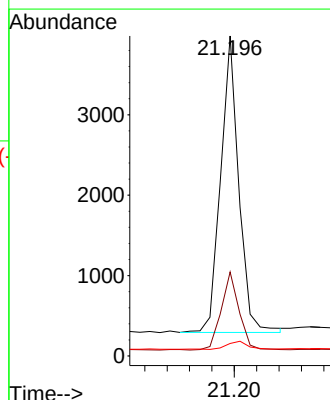
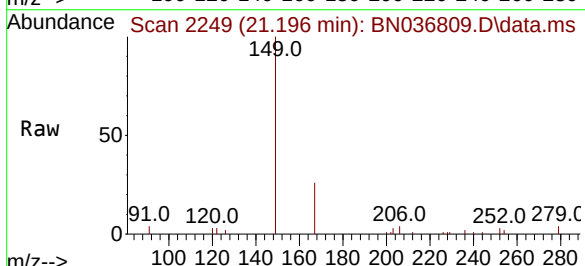
Tgt Ion:149 Resp: 4143

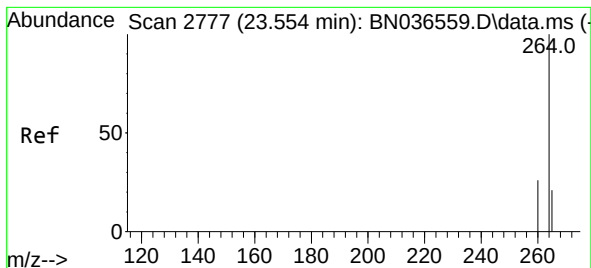
Ion Ratio Lower Upper

149 100

167 26.0 20.7 31.1

279 3.0 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.522 min Scan# 21

Delta R.T. -0.032 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

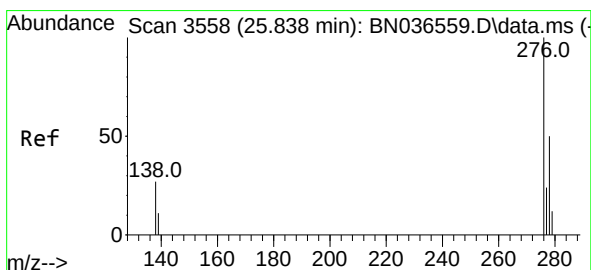
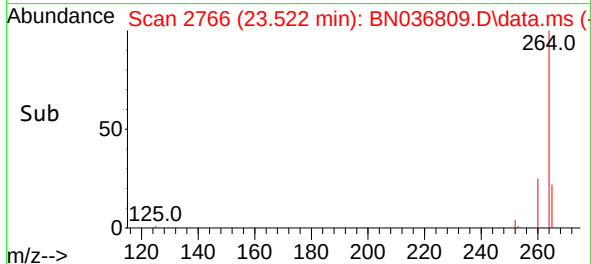
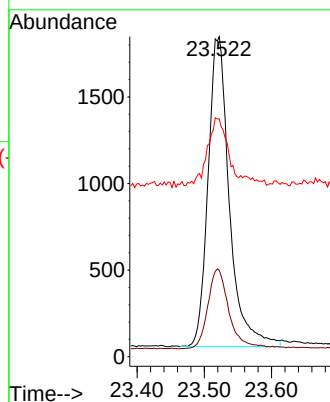
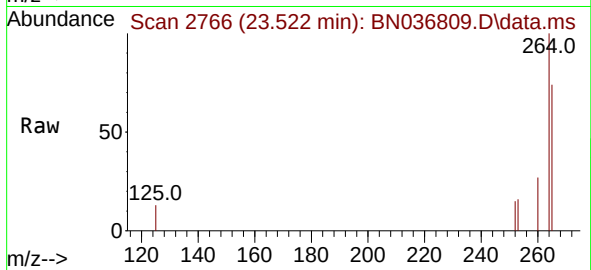
Tgt Ion:264 Resp: 3945

Ion Ratio Lower Upper

264 100

260 27.0 22.6 33.8

265 74.3 88.1 132.1#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.352 ng

RT: 25.782 min Scan# 3539

Delta R.T. -0.056 min

Lab File: BN036809.D

Acq: 31 Mar 2025 10:39

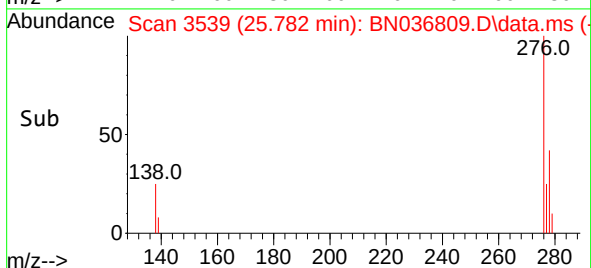
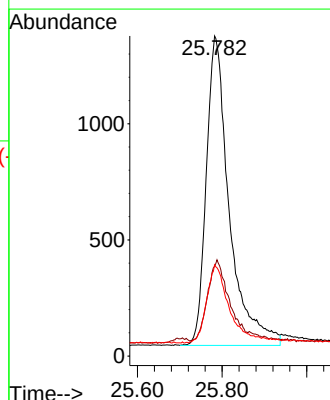
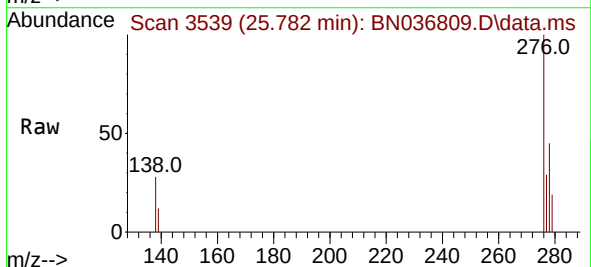
Tgt Ion:276 Resp: 5019

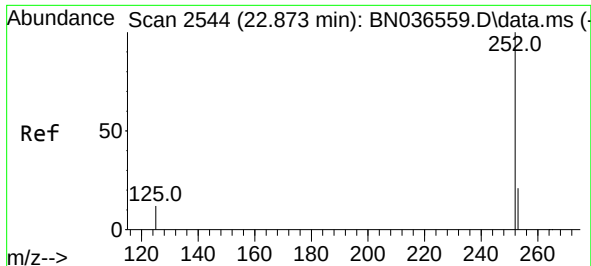
Ion Ratio Lower Upper

276 100

138 24.2 23.4 35.2

277 24.6 20.0 30.0

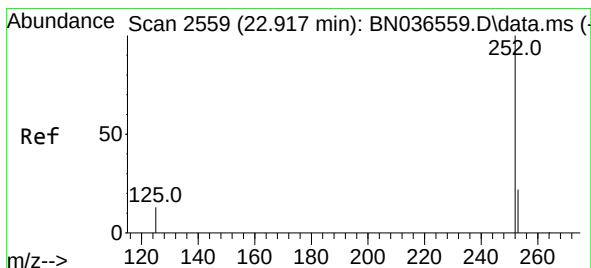
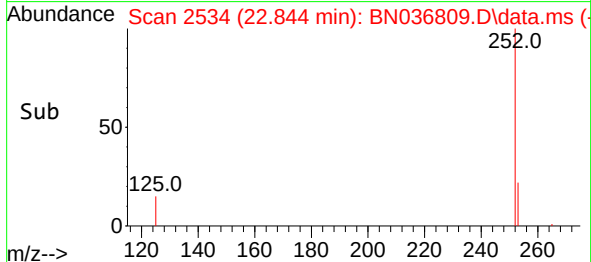
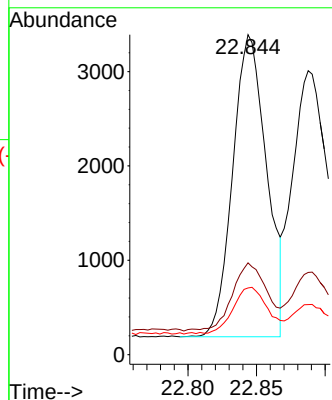
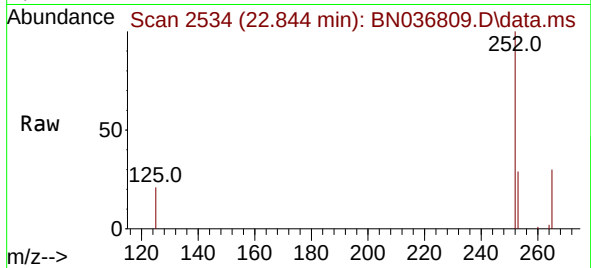




#37
Benzo(b)fluoranthene
Concen: 0.383 ng
RT: 22.844 min Scan# 2534
Delta R.T. -0.029 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

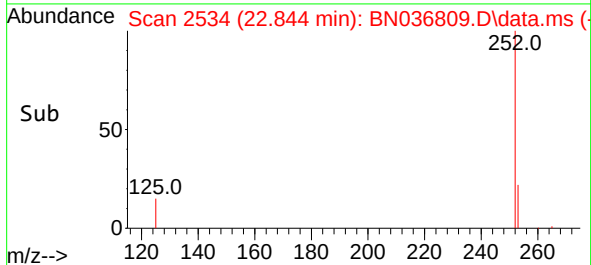
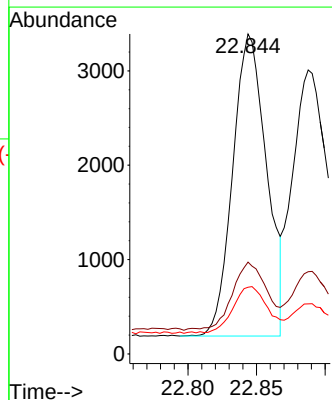
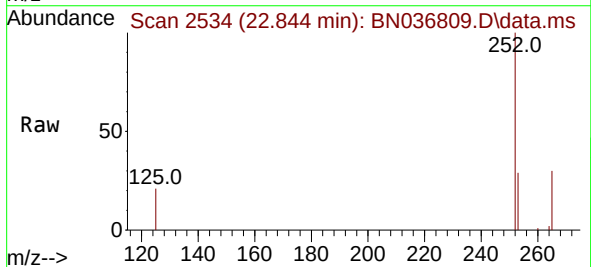
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

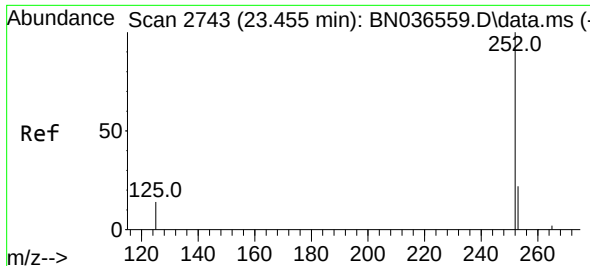
Tgt Ion:252 Resp: 5495
Ion Ratio Lower Upper
252 100
253 28.7 23.9 35.9
125 20.8 17.4 26.2



#38
Benzo(k)fluoranthene
Concen: 0.365 ng
RT: 22.844 min Scan# 2534
Delta R.T. -0.073 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

Tgt Ion:252 Resp: 5495
Ion Ratio Lower Upper
252 100
253 28.7 24.6 36.8
125 20.8 17.8 26.8

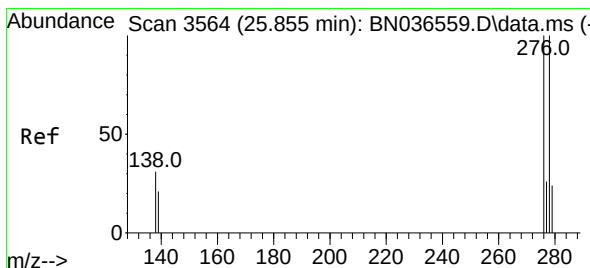
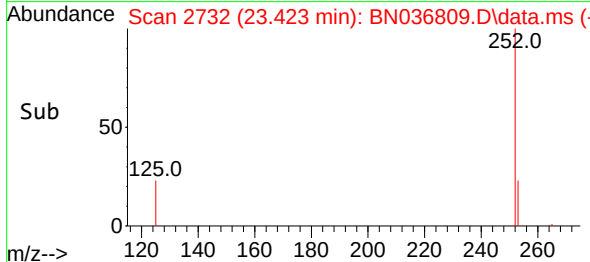
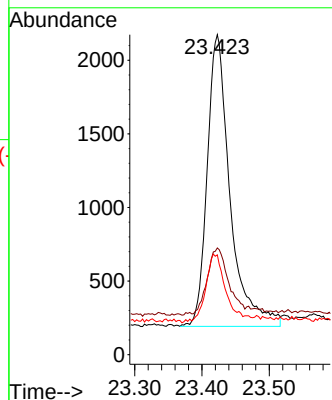
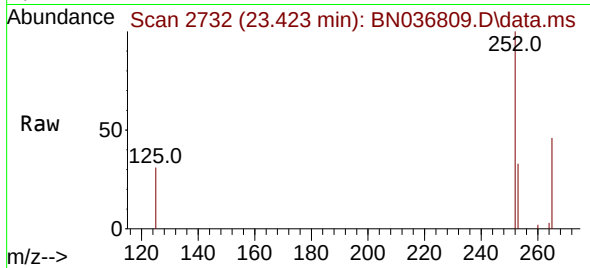




#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 23.423 min Scan# 21
Delta R.T. -0.032 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

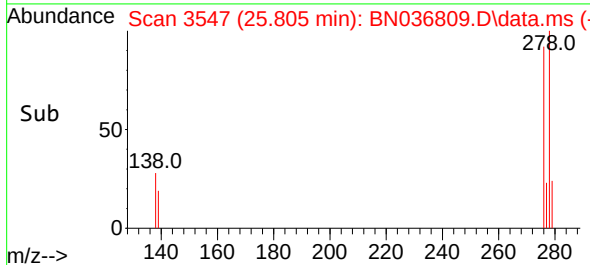
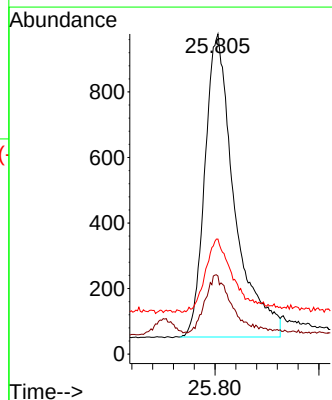
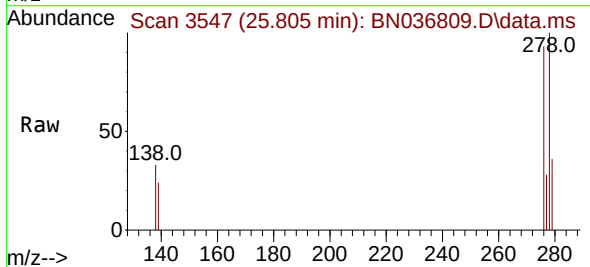
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

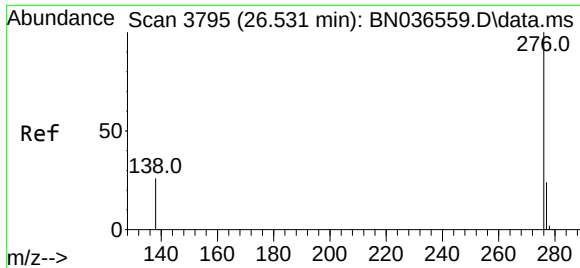
Tgt Ion:	252	Resp:	4679
Ion Ratio	Lower	Upper	
252	100		
253	33.3	27.8	41.8
125	31.2	22.7	34.1



#40
Dibenzo(a,h)anthracene
Concen: 0.330 ng
RT: 25.805 min Scan# 3547
Delta R.T. -0.050 min
Lab File: BN036809.D
Acq: 31 Mar 2025 10:39

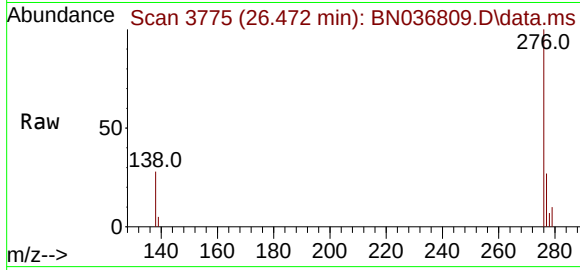
Tgt Ion:	278	Resp:	3655
Ion Ratio	Lower	Upper	
278	100		
139	24.4	20.8	31.2
279	35.9	28.8	43.2



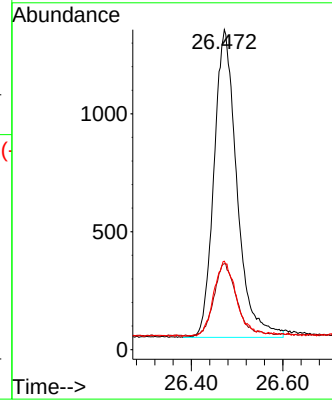
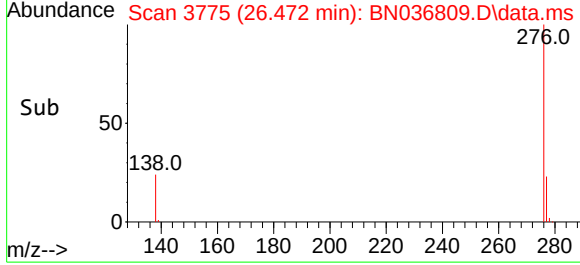


#41
 Benzo(g,h,i)perylene
 Concen: 0.358 ng
 RT: 26.472 min Scan# 31
 Delta R.T. -0.058 min
 Lab File: BN036809.D
 Acq: 31 Mar 2025 10:39

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4



Tgt Ion:	276	Resp:	4543
Ion Ratio	Lower	Upper	
276	100		
277	26.8	22.2	33.4
138	27.6	24.1	36.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
 Data File : BN036815.D
 Acq On : 31 Mar 2025 15:08
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Mar 31 15:30:13 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

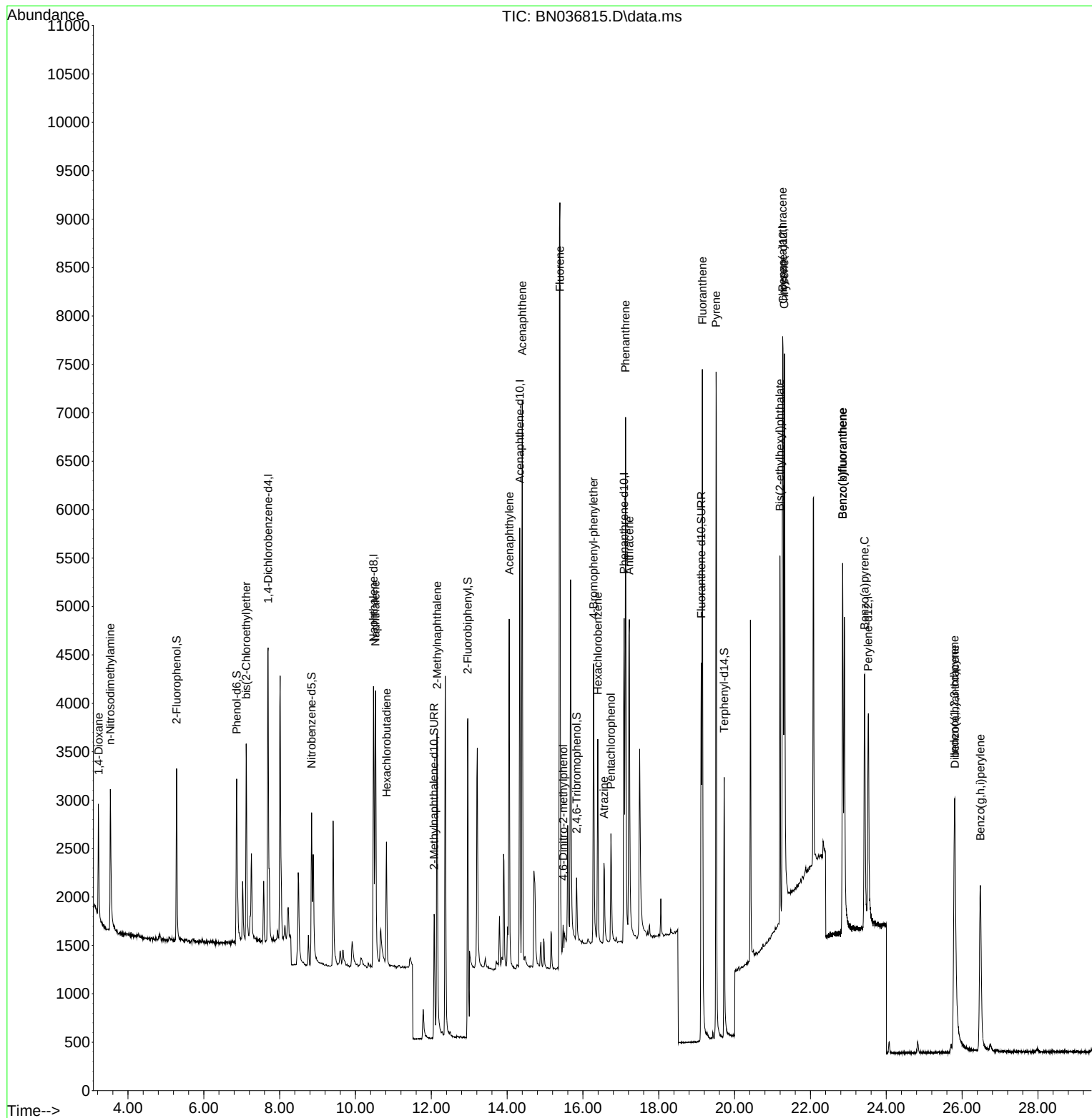
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.696	152	1563	0.400	ng	-0.03
7) Naphthalene-d8	10.477	136	4089	0.400	ng	-0.03
13) Acenaphthene-d10	14.334	164	2524	0.400	ng	-0.03
19) Phenanthrene-d10	17.087	188	5032	0.400	ng	-0.02
29) Chrysene-d12	21.277	240	3863	0.400	ng	-0.02
35) Perylene-d12	23.525	264	3435	0.400	ng	#-0.03
System Monitoring Compounds						
4) 2-Fluorophenol	5.283	112	1311	0.360	ng	-0.03
5) Phenol-d6	6.865	99	1525	0.339	ng	-0.04
8) Nitrobenzene-d5	8.843	82	1424	0.320	ng	-0.03
11) 2-Methylnaphthalene-d10	12.075	152	2219	0.365	ng	-0.04
14) 2,4,6-Tribromophenol	15.833	330	402	0.351	ng	-0.02
15) 2-Fluorobiphenyl	12.963	172	4939	0.336	ng	-0.03
27) Fluoranthene-d10	19.118	212	5000	0.388	ng	-0.02
31) Terphenyl-d14	19.726	244	3254	0.352	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.225	88	698	0.403	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.536	42	1430	0.408	ng	93
6) bis(2-Chloroethyl)ether	7.118	93	1597	0.343	ng	98
9) Naphthalene	10.530	128	4210	0.350	ng	99
10) Hexachlorobutadiene	10.818	225	998	0.352	ng	# 99
12) 2-Methylnaphthalene	12.151	142	2722	0.356	ng	99
16) Acenaphthylene	14.056	152	4054	0.340	ng	100
17) Acenaphthene	14.398	154	2777	0.356	ng	99
18) Fluorene	15.393	166	3732	0.354	ng	99
20) 4,6-Dinitro-2-methylph...	15.478	198	396	0.454	ng	85
21) 4-Bromophenyl-phenylether	16.280	248	1144	0.363	ng	94
22) Hexachlorobenzene	16.391	284	1380	0.363	ng	95
23) Atrazine	16.553	200	954	0.377	ng	97
24) Pentachlorophenol	16.739	266	651	0.375	ng	97
25) Phenanthrene	17.124	178	5703	0.378	ng	100
26) Anthracene	17.223	178	4933	0.362	ng	99
28) Fluoranthene	19.150	202	6761	0.399	ng	98
30) Pyrene	19.513	202	6826	0.361	ng	100
32) Benzo(a)anthracene	21.268	228	4715	0.351	ng	99
33) Chrysene	21.313	228	5650	0.385	ng	100
34) Bis(2-ethylhexyl)phtha...	21.196	149	3477	0.364	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.800	276	4428	0.357	ng	94
37) Benzo(b)fluoranthene	22.850	252	4732	0.379	ng	98
38) Benzo(k)fluoranthene	22.850	252	4732	0.361	ng	98
39) Benzo(a)pyrene	23.429	252	4200	0.399	ng	97
40) Dibenzo(a,h)anthracene	25.811	278	3277	0.340	ng	97
41) Benzo(g,h,i)perylene	26.484	276	4006	0.363	ng	97

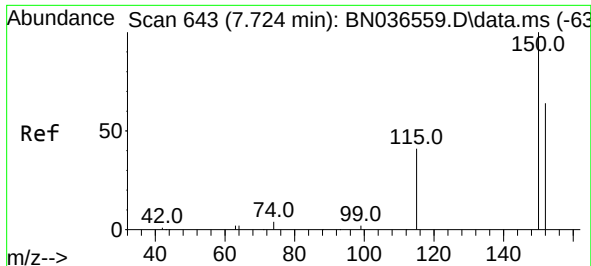
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN033125\
Data File : BN036815.D
Acq On : 31 Mar 2025 15:08
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

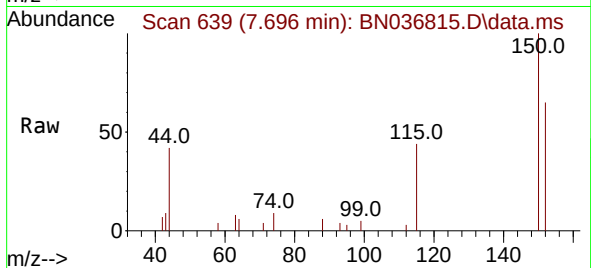
Quant Time: Mar 31 15:30:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 16:06:28 2025
Response via : Initial Calibration



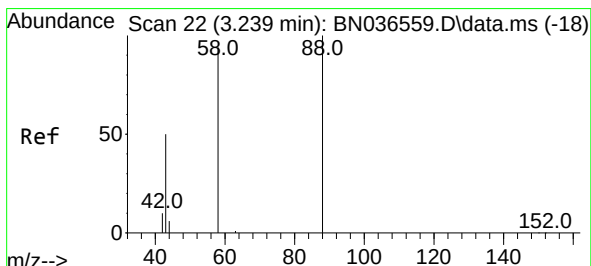
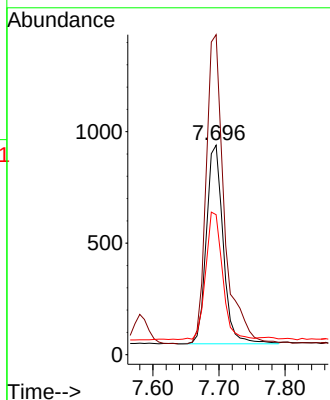
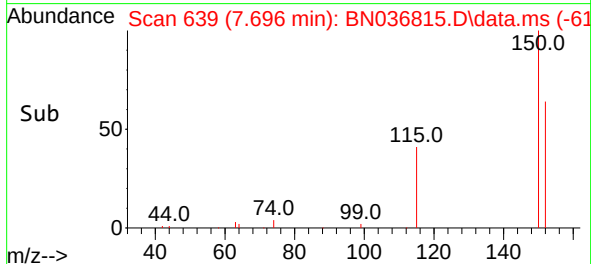


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.696 min Scan# 61
Delta R.T. -0.028 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

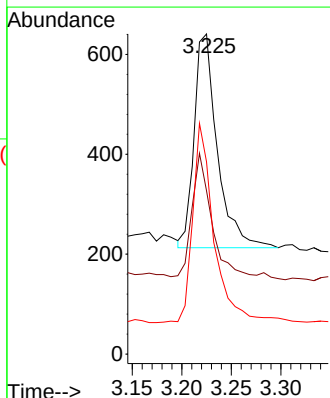
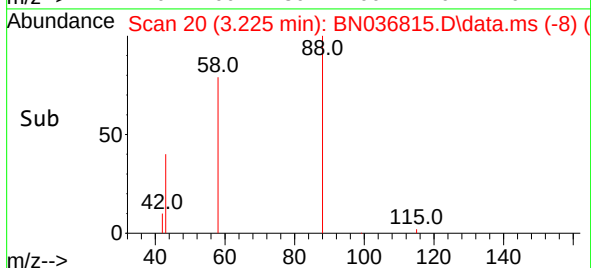
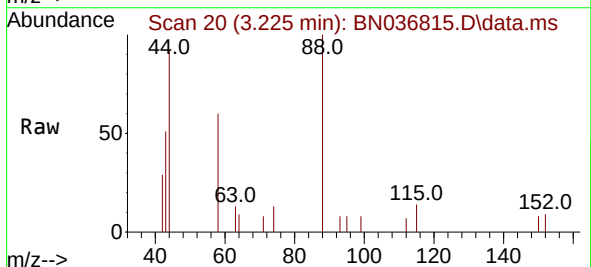


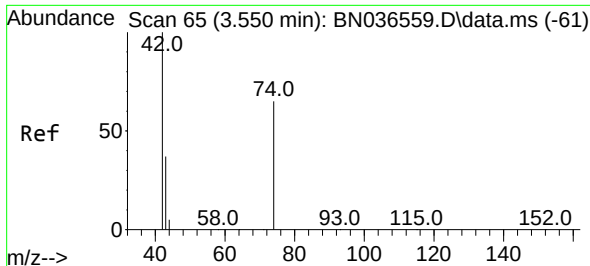
Tgt Ion:152 Resp: 1563
Ion Ratio Lower Upper
152 100
150 152.8 123.7 185.5
115 66.9 54.3 81.5



#2
1,4-Dioxane
Concen: 0.403 ng
RT: 3.225 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 88 Resp: 698
Ion Ratio Lower Upper
88 100
43 51.7 37.8 56.8
58 85.5 67.4 101.2

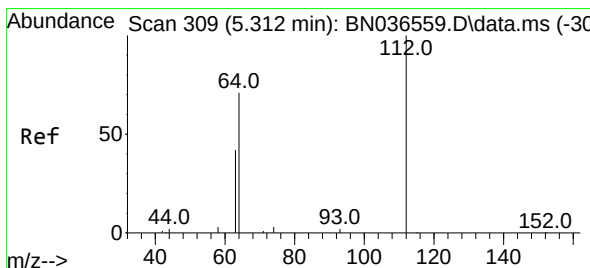
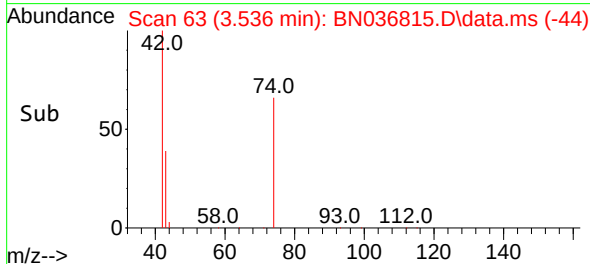
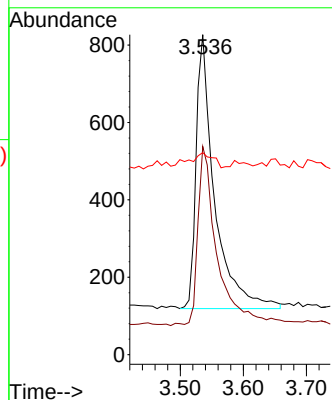
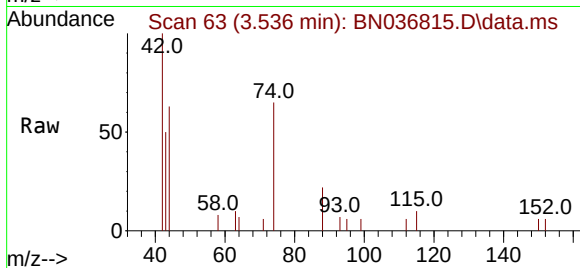




#3
 n-Nitrosodimethylamine
 Concen: 0.408 ng
 RT: 3.536 min Scan# 61
 Delta R.T. -0.014 min
 Lab File: BN036815.D
 Acq: 31 Mar 2025 15:08

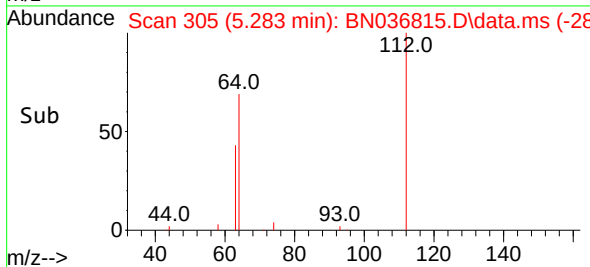
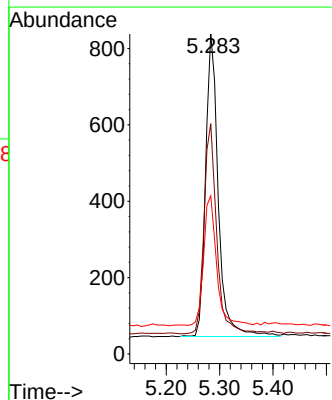
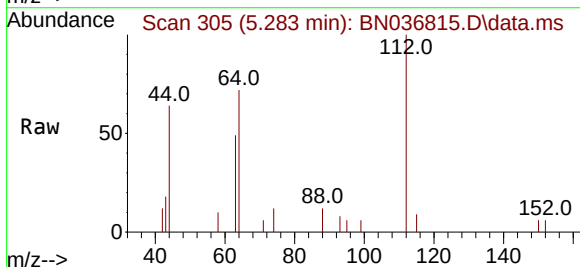
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

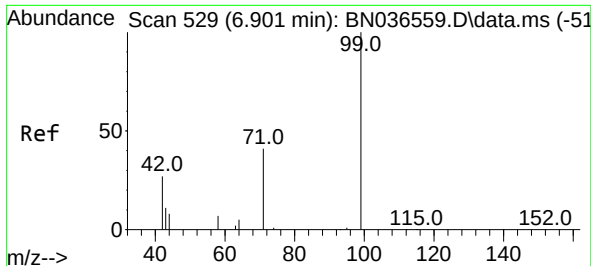
Tgt Ion: 42 Resp: 1430
 Ion Ratio Lower Upper
 42 100
 74 69.3 60.6 90.8
 44 6.6 6.3 9.5



#4
 2-Fluorophenol
 Concen: 0.360 ng
 RT: 5.283 min Scan# 305
 Delta R.T. -0.029 min
 Lab File: BN036815.D
 Acq: 31 Mar 2025 15:08

Tgt Ion: 112 Resp: 1311
 Ion Ratio Lower Upper
 112 100
 64 69.4 53.1 79.7
 63 43.9 31.8 47.8

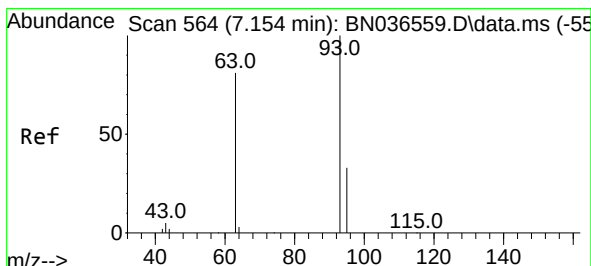
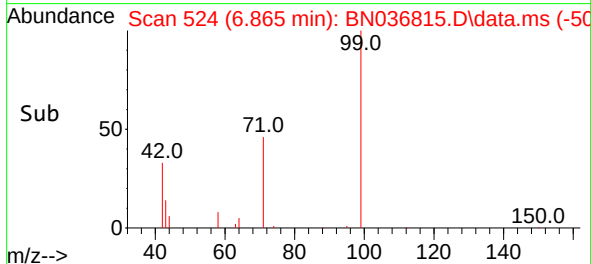
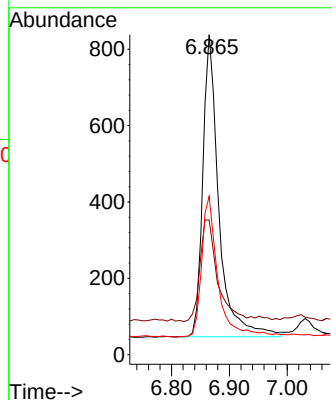
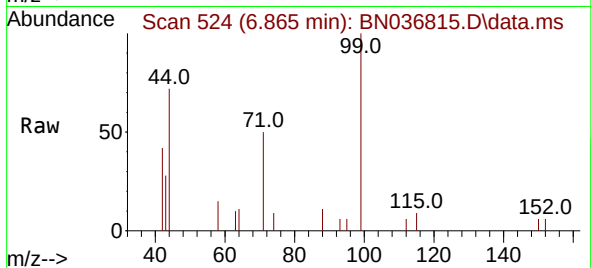




#5
Phenol-d6
Concen: 0.339 ng
RT: 6.865 min Scan# 51
Delta R.T. -0.036 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

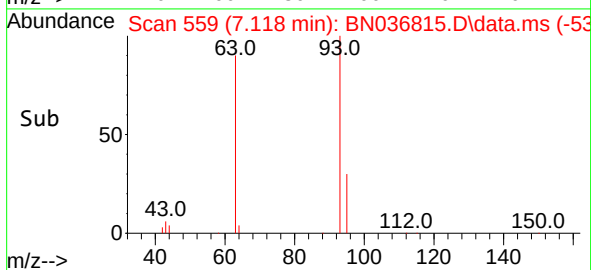
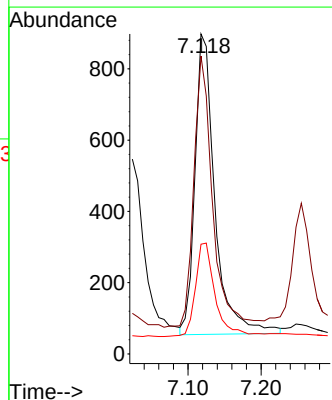
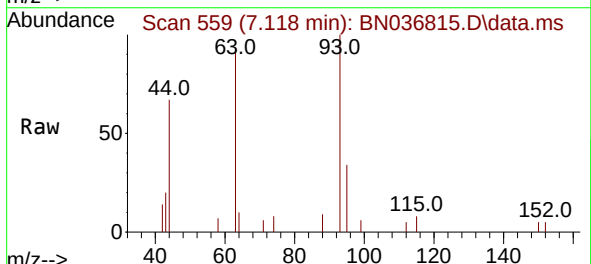
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

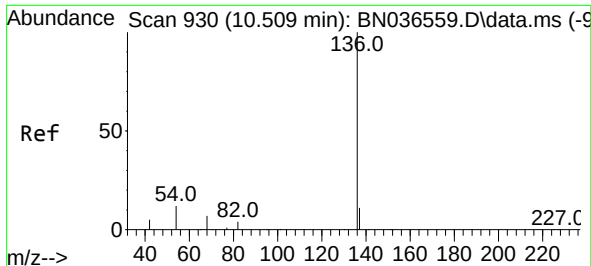
Tgt Ion: 99 Resp: 1525
Ion Ratio Lower Upper
99 100
42 37.5 26.5 39.7
71 48.4 34.1 51.1



#6
bis(2-Chloroethyl)ether
Concen: 0.343 ng
RT: 7.118 min Scan# 559
Delta R.T. -0.036 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion: 93 Resp: 1597
Ion Ratio Lower Upper
93 100
63 82.9 67.7 101.5
95 30.6 25.6 38.4

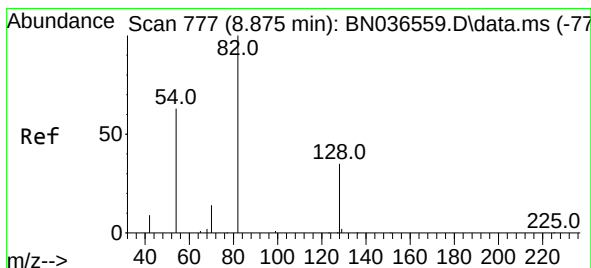
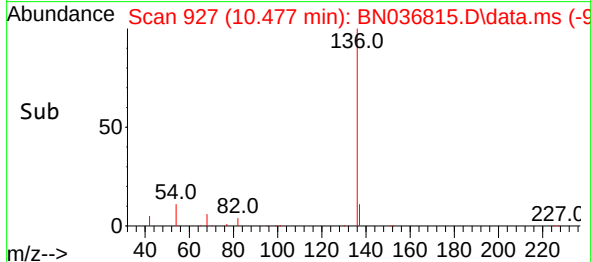
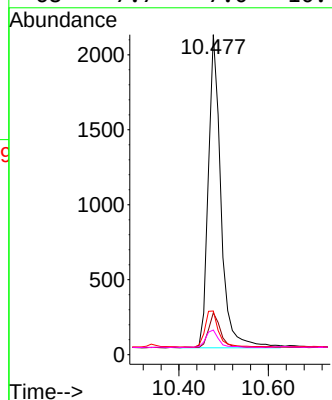
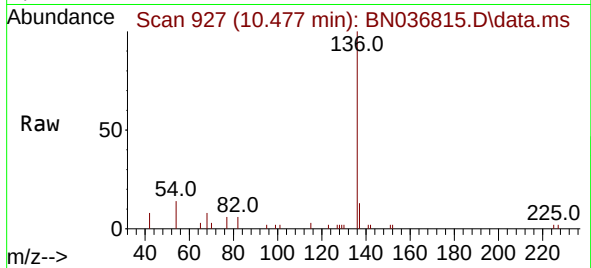




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.477 min Scan# 91
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

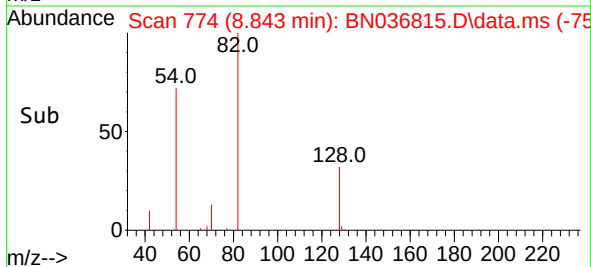
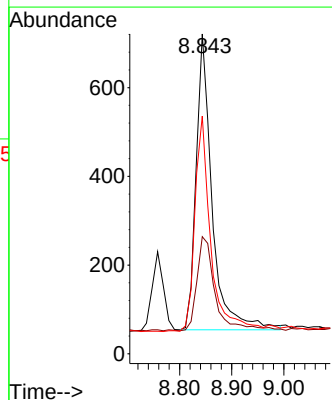
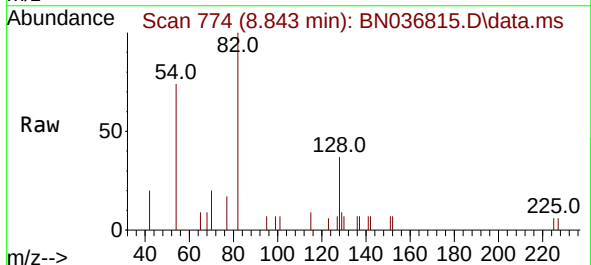
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

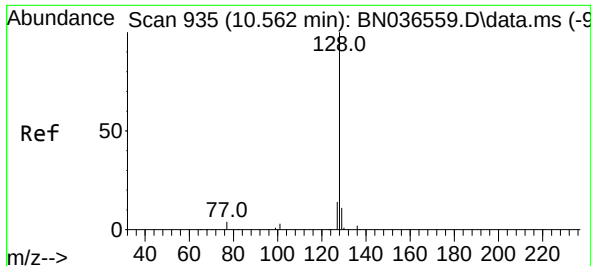
Tgt Ion:	136	Resp:	4089
Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.3	15.5
54	13.6	11.5	17.3
68	7.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.320 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:	82	Resp:	1424
Ion	Ratio	Lower	Upper
82	100		
128	36.6	30.6	45.8
54	74.3	52.2	78.4

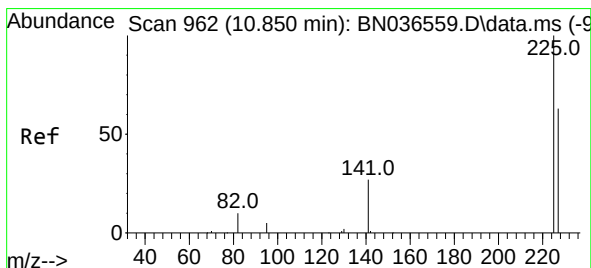
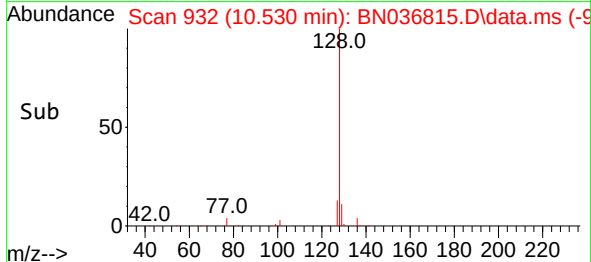
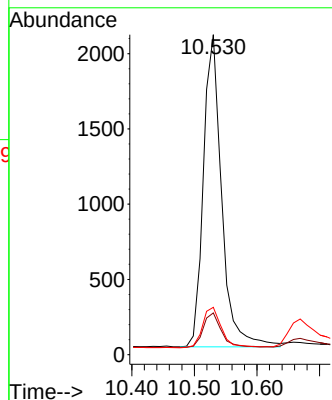
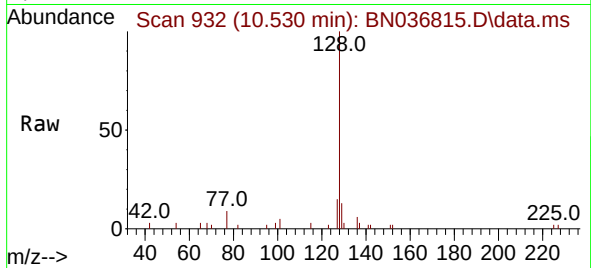




#9
Naphthalene
Concen: 0.350 ng
RT: 10.530 min Scan# 911
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

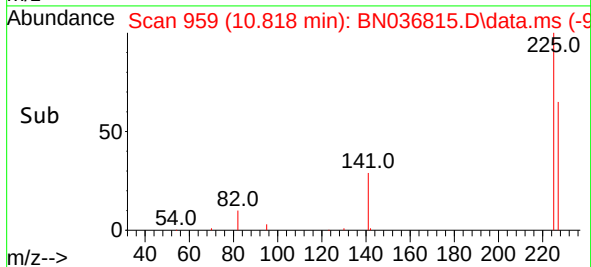
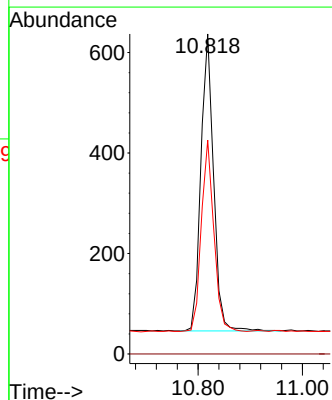
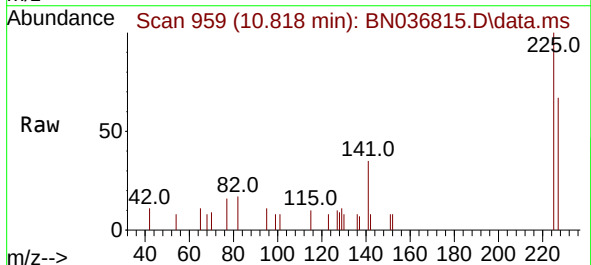
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

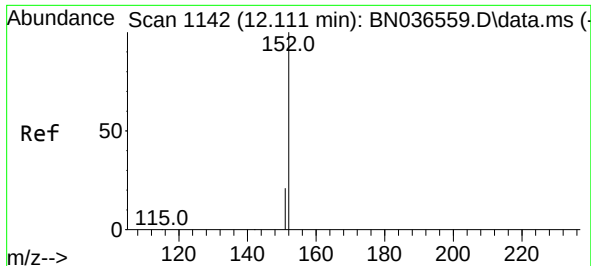
Tgt Ion:	128	Resp:	4210
Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.8	14.6
127	14.8	11.8	17.8



#10
Hexachlorobutadiene
Concen: 0.352 ng
RT: 10.818 min Scan# 959
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:	225	Resp:	998
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.8	77.8

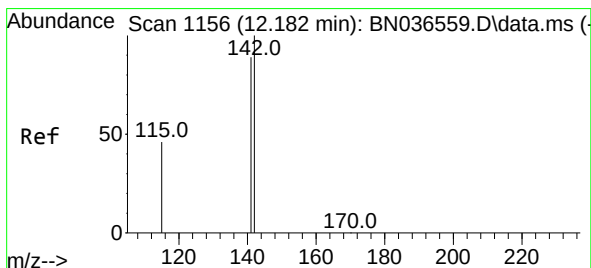
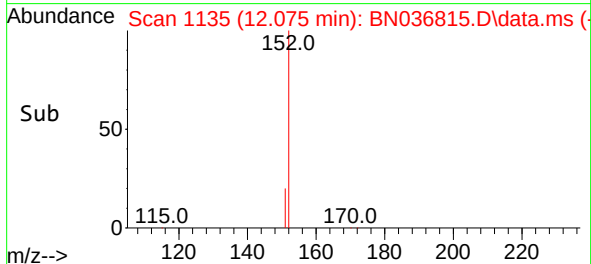
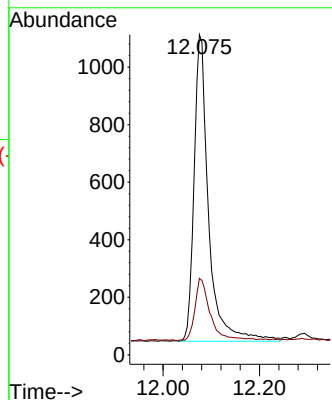
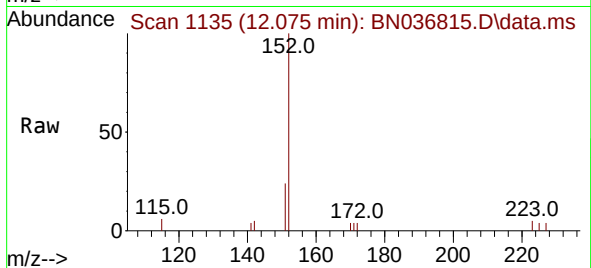




#11
2-Methylnaphthalene-d10
Concen: 0.365 ng
RT: 12.075 min Scan# 1135
Delta R.T. -0.035 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

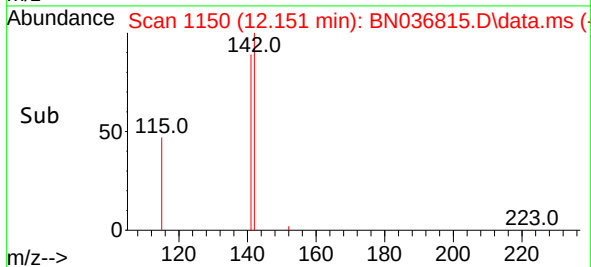
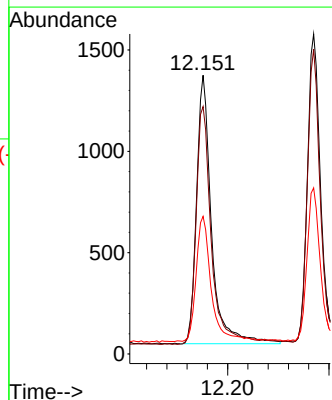
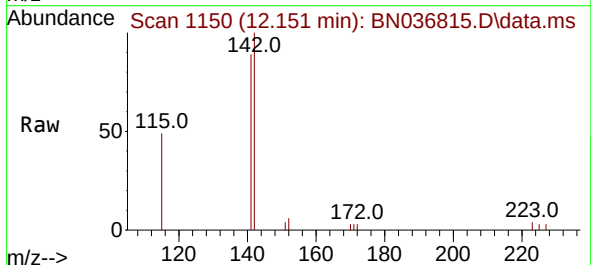
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

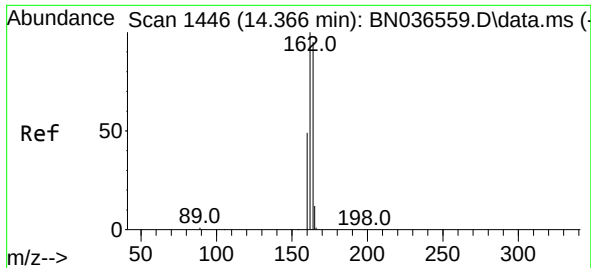
Tgt Ion:152 Resp: 2219
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.356 ng
RT: 12.151 min Scan# 1150
Delta R.T. -0.030 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:142 Resp: 2722
Ion Ratio Lower Upper
142 100
141 88.8 71.7 107.5
115 49.4 38.3 57.5

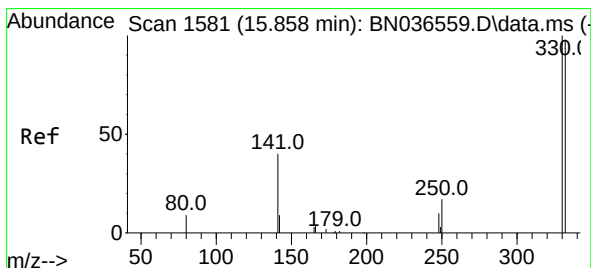
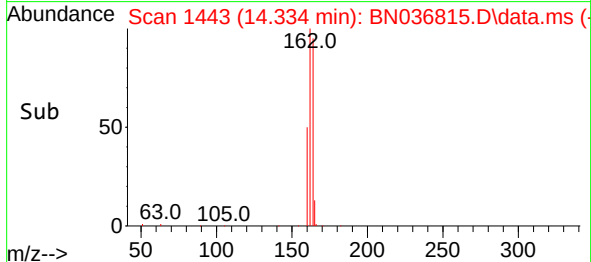
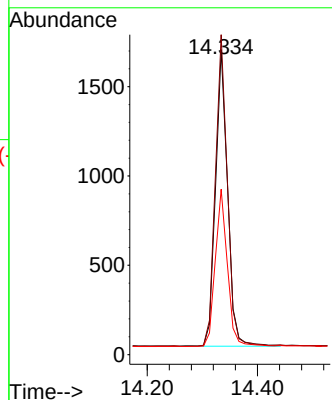
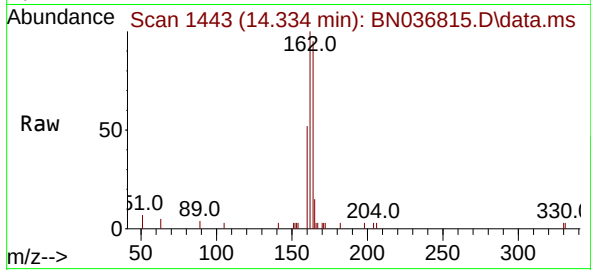




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

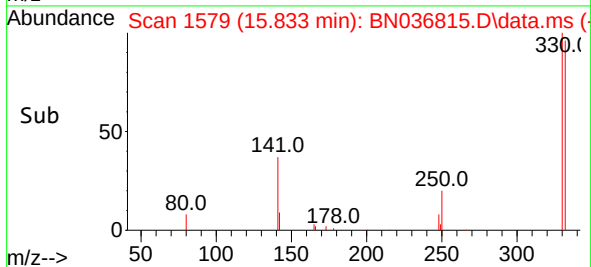
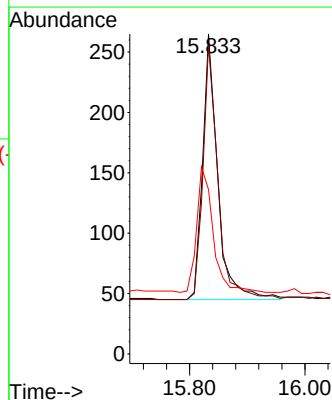
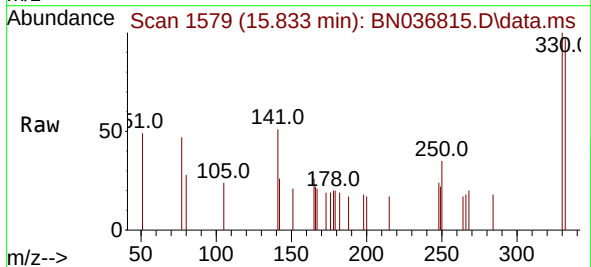
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

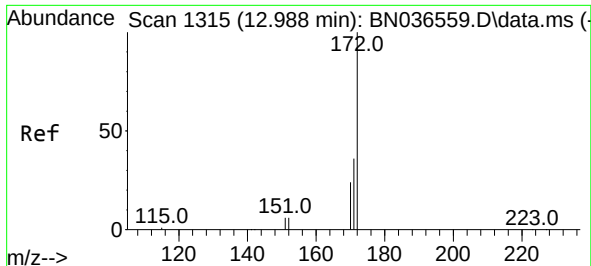
Tgt Ion:164 Resp: 2524
Ion Ratio Lower Upper
164 100
162 104.9 84.2 126.2
160 54.2 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.351 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:330 Resp: 402
Ion Ratio Lower Upper
330 100
332 94.8 75.2 112.8
141 51.0 43.4 65.2

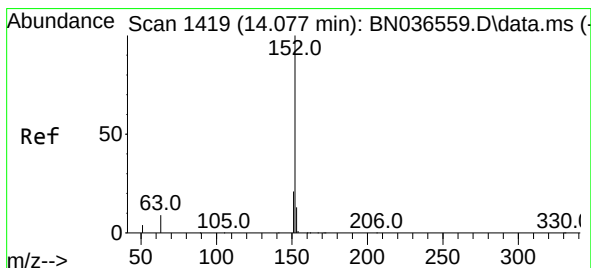
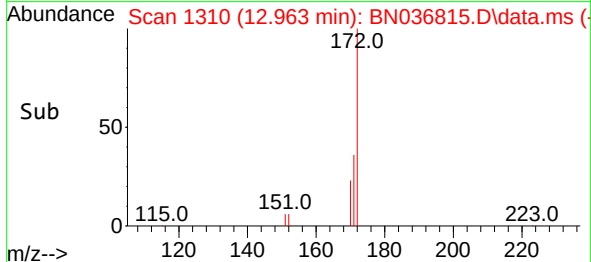
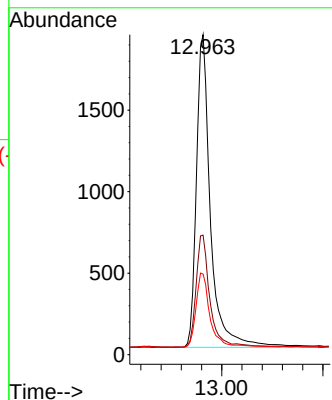
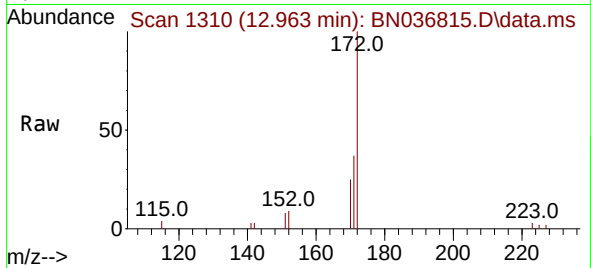




#15
2-Fluorobiphenyl
Concen: 0.336 ng
RT: 12.963 min Scan# 11
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

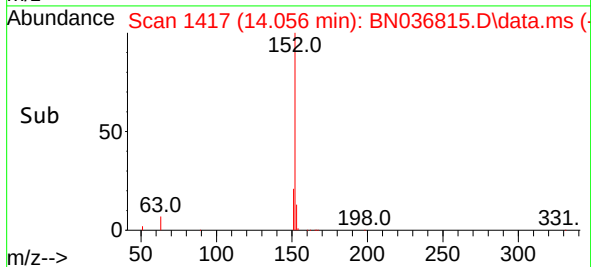
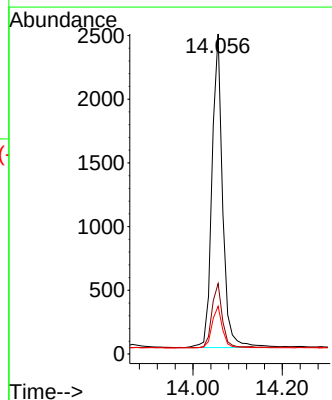
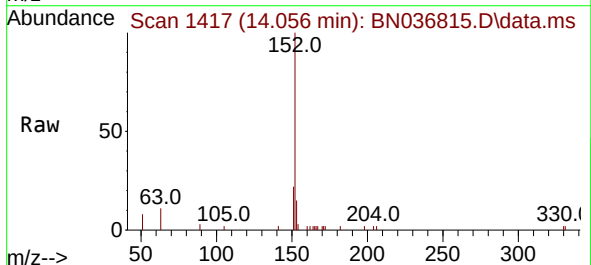
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

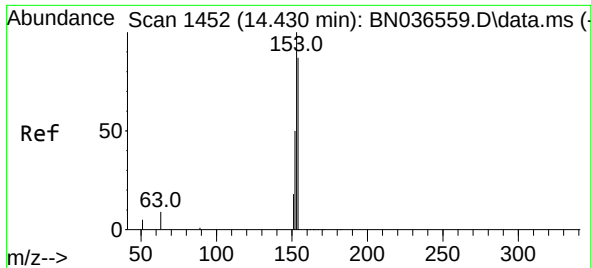
Tgt Ion:172	Resp:	4939
Ion Ratio	Lower	Upper
172	100	
171	37.3	29.5 44.3
170	25.2	20.2 30.4



#16
Acenaphthylene
Concen: 0.340 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:152	Resp:	4054
Ion Ratio	Lower	Upper
152	100	
151	20.2	16.2 24.4
153	13.5	10.6 15.8

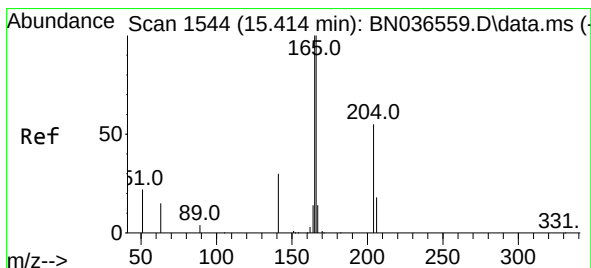
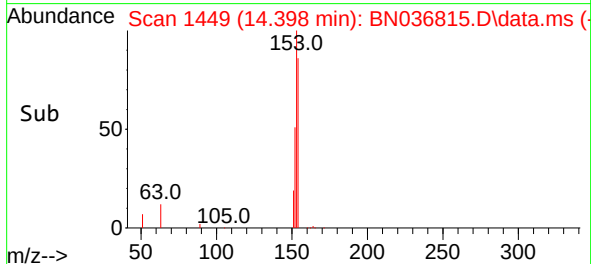
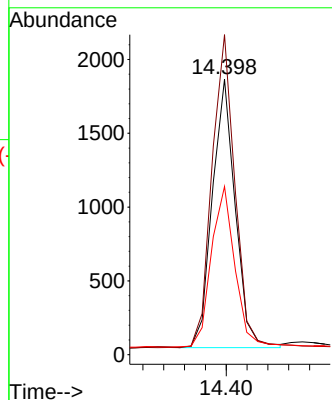
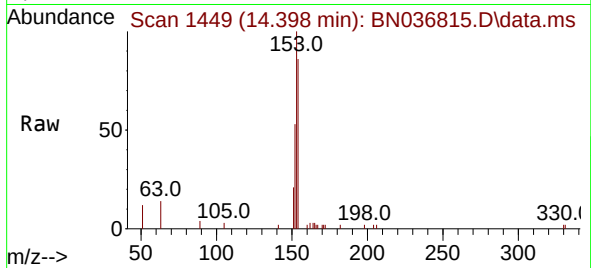




#17
Acenaphthene
Concen: 0.356 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.032 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

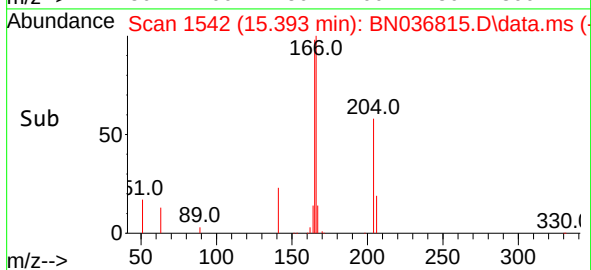
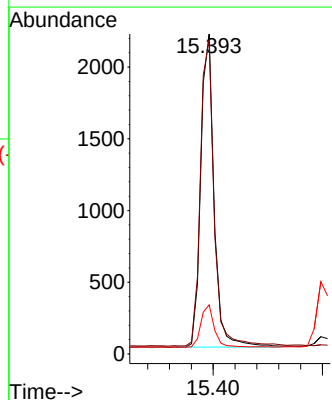
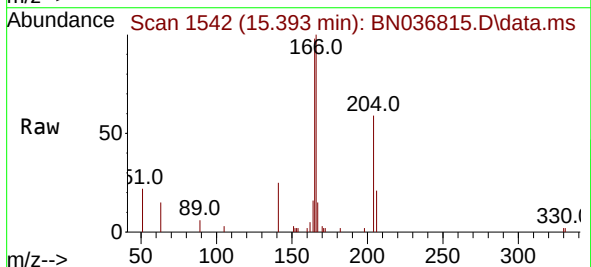
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

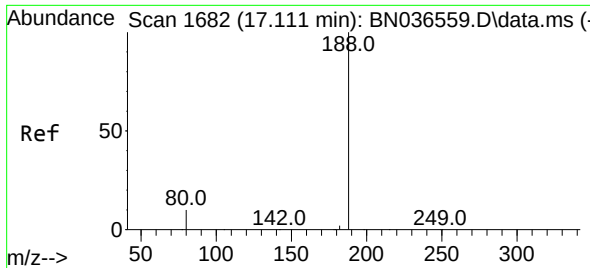
Tgt Ion:154 Resp: 2777
Ion Ratio Lower Upper
154 100
153 118.7 94.1 141.1
152 62.5 49.8 74.6



#18
Fluorene
Concen: 0.354 ng
RT: 15.393 min Scan# 1542
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:166 Resp: 3732
Ion Ratio Lower Upper
166 100
165 100.8 79.8 119.8
167 13.4 10.6 15.8

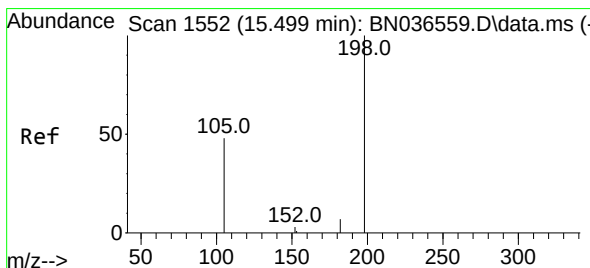
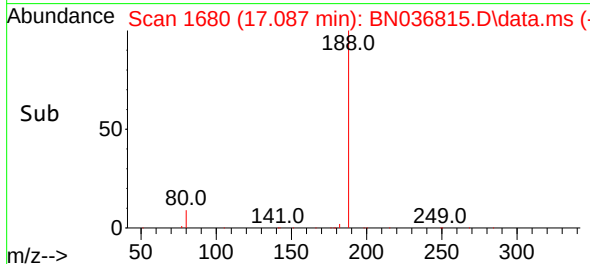
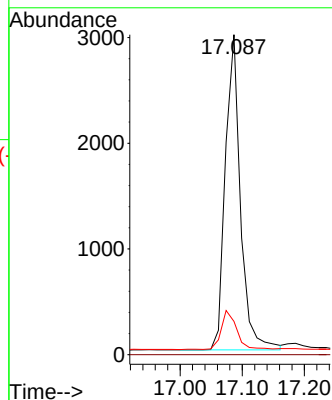
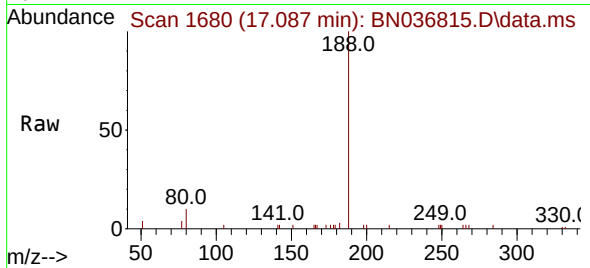




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

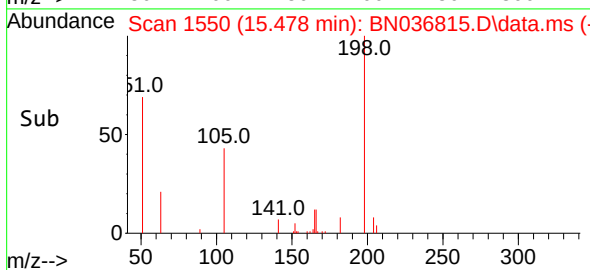
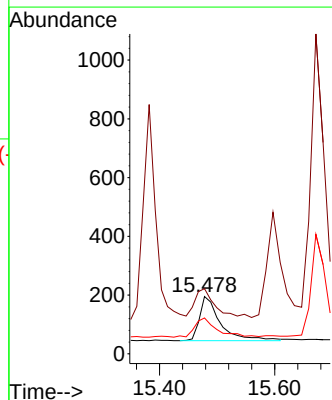
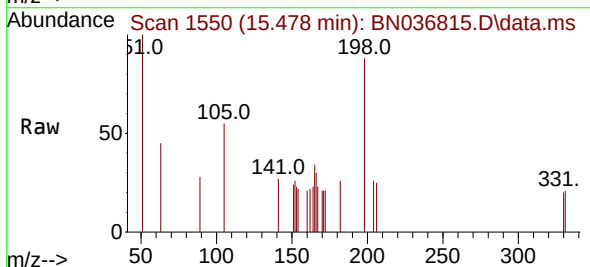
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

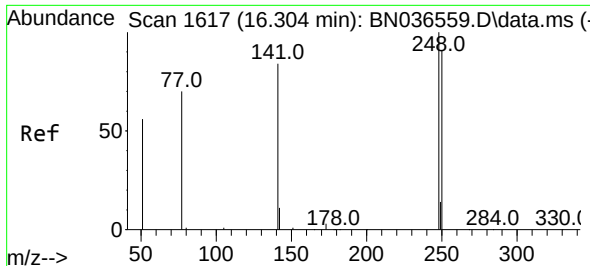
Tgt Ion:188 Resp: 5032
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.4 8.8 13.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.454 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.021 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:198 Resp: 396
Ion Ratio Lower Upper
198 100
51 113.8 107.9 161.9
105 62.6 56.2 84.2

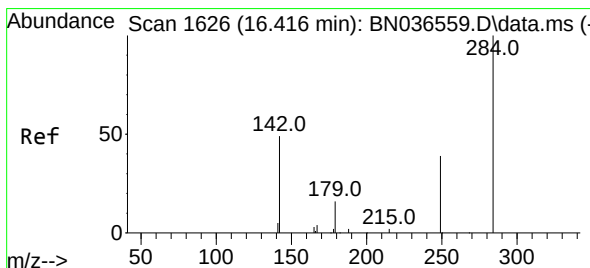
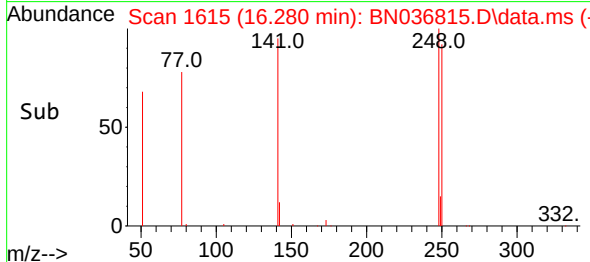
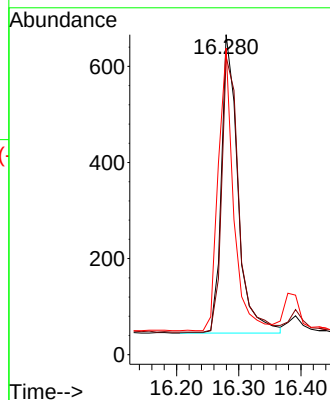
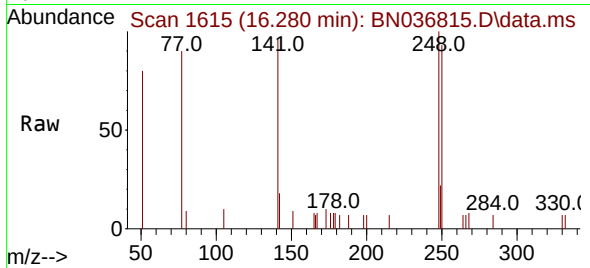




#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

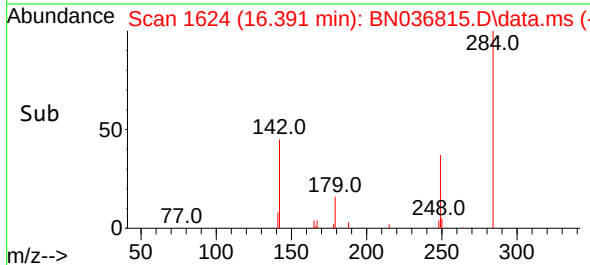
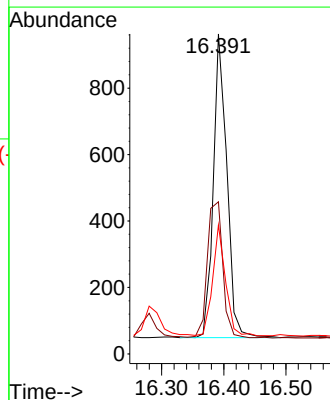
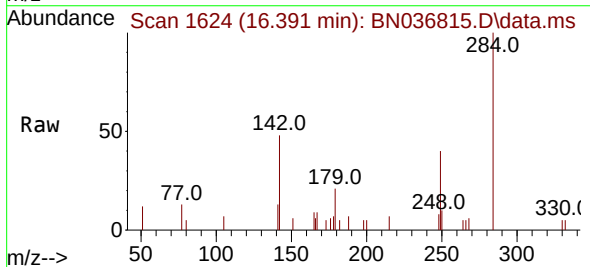
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

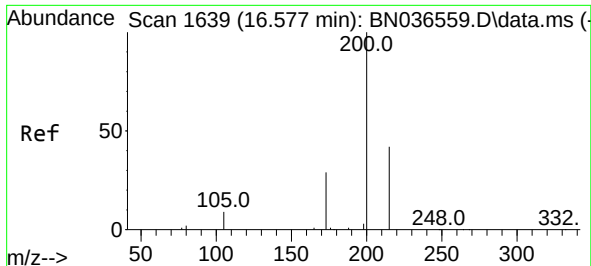
Tgt Ion:	248	Resp:	1144
Ion	Ratio	Lower	Upper
248	100		
250	93.1	73.0	109.6
141	95.8	68.6	103.0



#22
Hexachlorobenzene
Concen: 0.363 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:	284	Resp:	1380
Ion	Ratio	Lower	Upper
284	100		
142	51.9	37.0	55.4
249	34.7	28.1	42.1

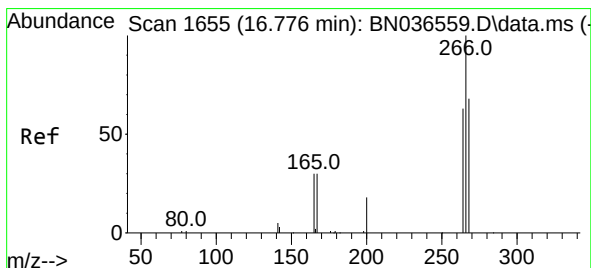
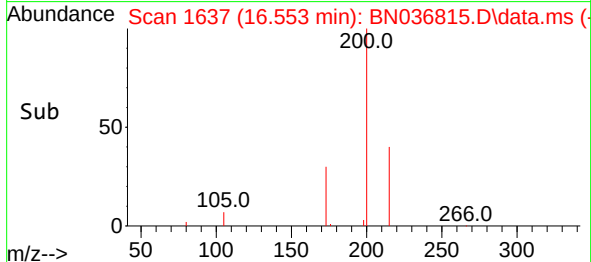
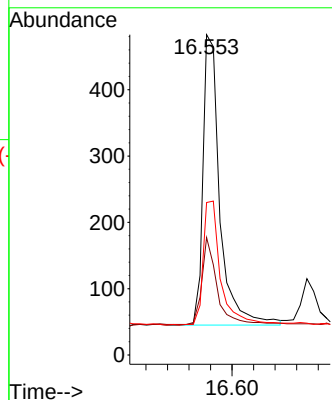
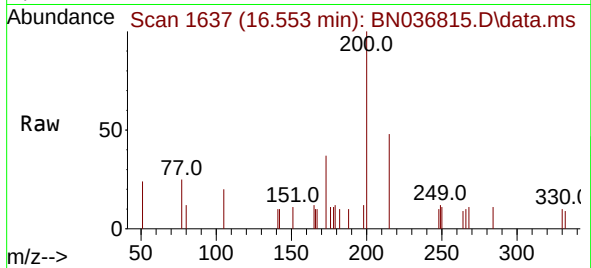




#23
Atrazine
Concen: 0.377 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

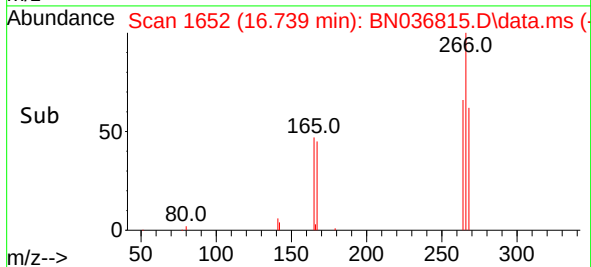
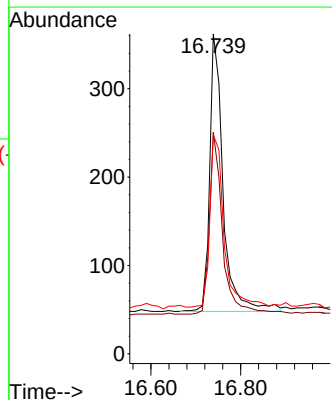
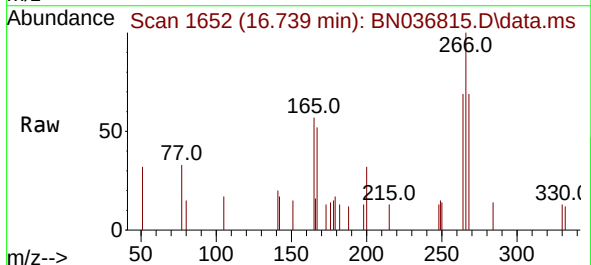
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

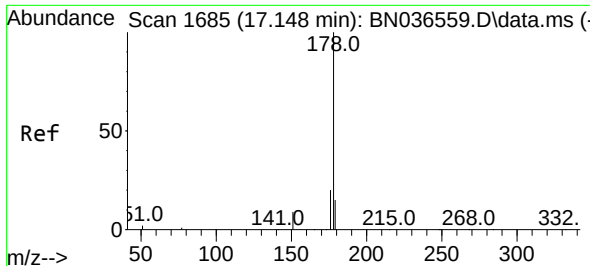
Tgt Ion:200 Resp: 954
Ion Ratio Lower Upper
200 100
173 36.6 27.3 40.9
215 47.6 36.8 55.2



#24
Pentachlorophenol
Concen: 0.375 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.037 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:266 Resp: 651
Ion Ratio Lower Upper
266 100
264 64.8 49.6 74.4
268 65.4 50.9 76.3

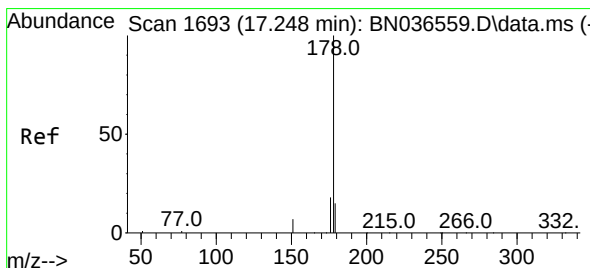
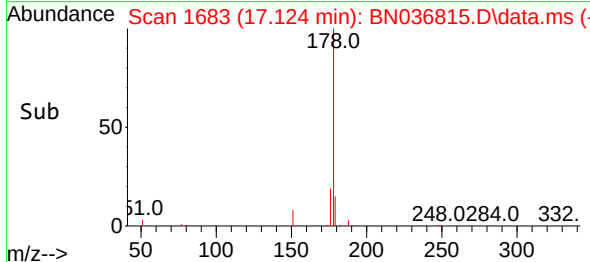
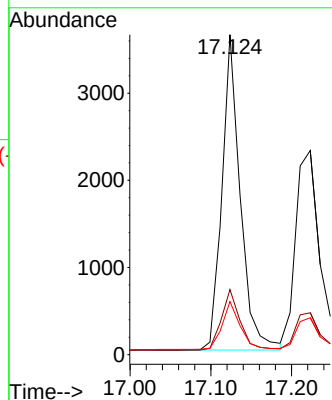
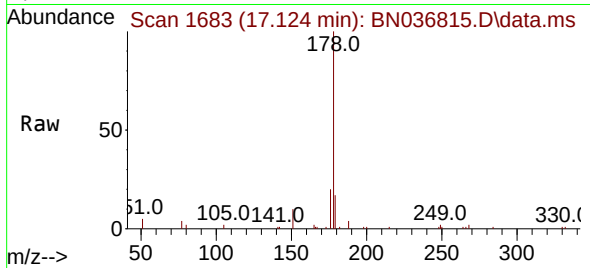




#25
Phenanthrene
Concen: 0.378 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

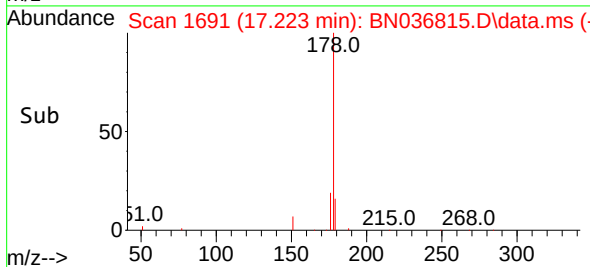
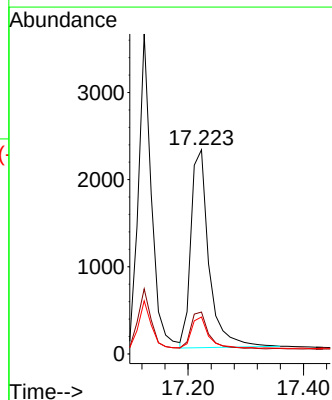
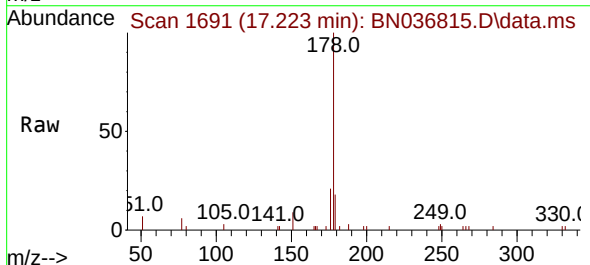
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

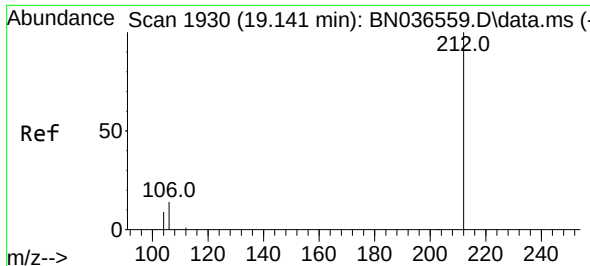
Tgt Ion:	178	Resp:	5703
Ion Ratio	Lower	Upper	
178	100		
176	19.9	15.9	23.9
179	15.7	12.2	18.4



#26
Anthracene
Concen: 0.362 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.025 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:	178	Resp:	4933
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.4	23.2
179	15.6	12.6	18.8

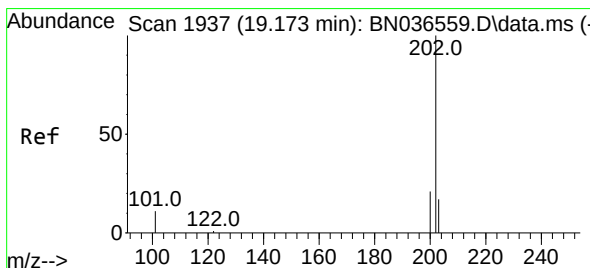
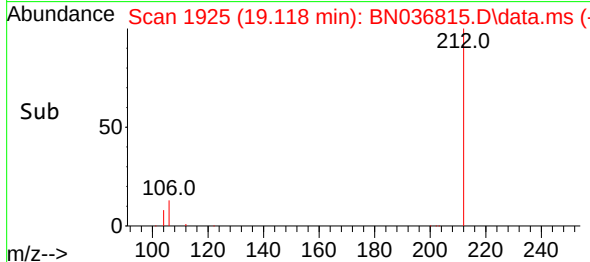
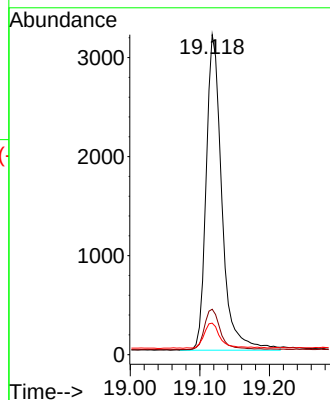
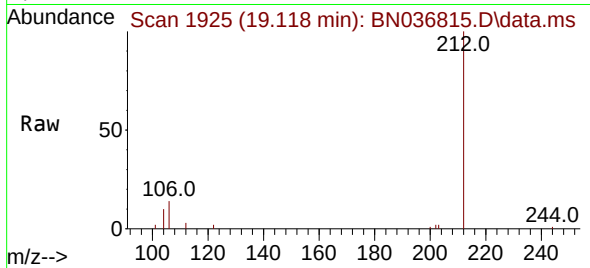




#27
Fluoranthene-d10
Concen: 0.388 ng
RT: 19.118 min Scan# 1918
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

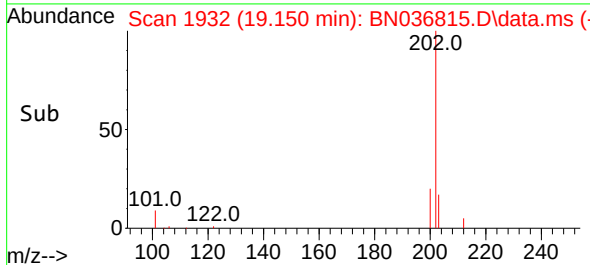
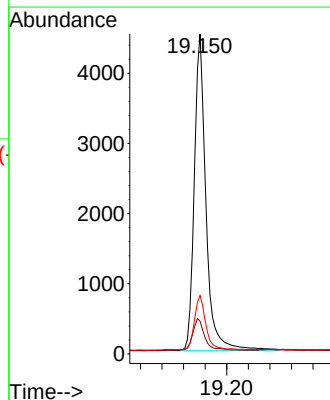
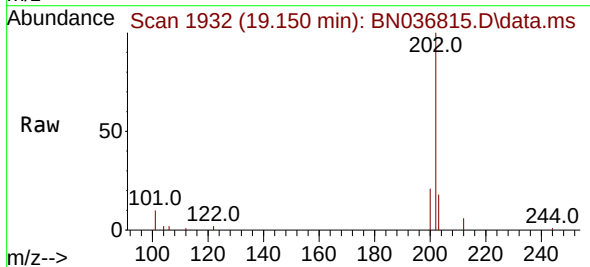
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

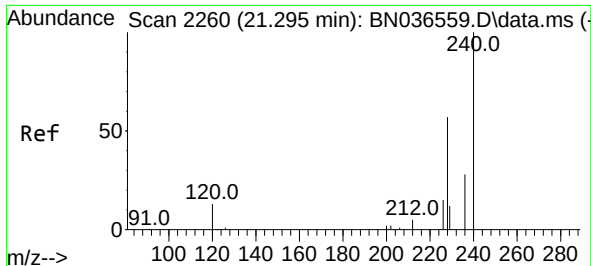
Tgt Ion:212 Resp: 5000
Ion Ratio Lower Upper
212 100
106 13.2 11.8 17.6
104 8.4 7.3 10.9



#28
Fluoranthene
Concen: 0.399 ng
RT: 19.150 min Scan# 1932
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:202 Resp: 6761
Ion Ratio Lower Upper
202 100
101 10.4 9.4 14.0
203 16.5 13.5 20.3

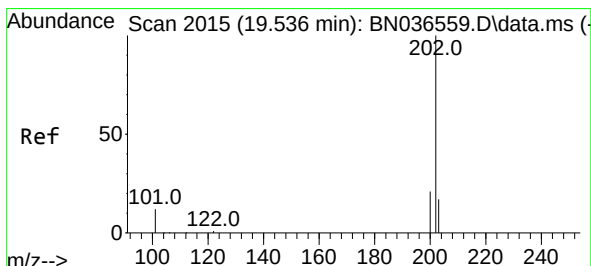
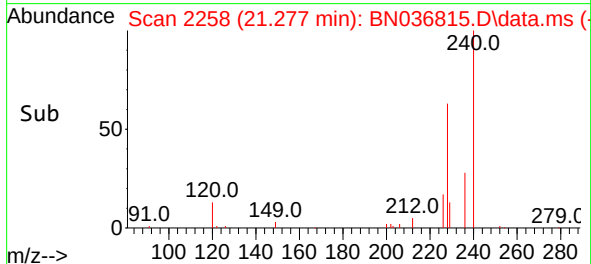
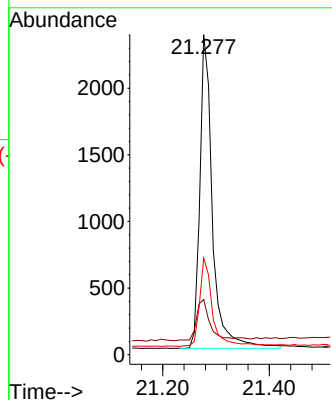
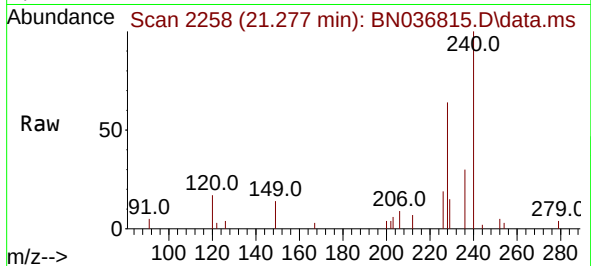




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.277 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

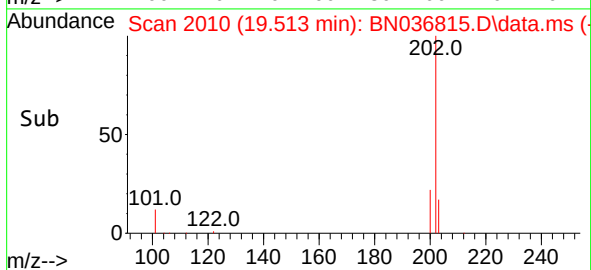
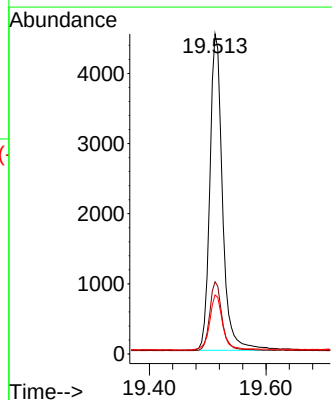
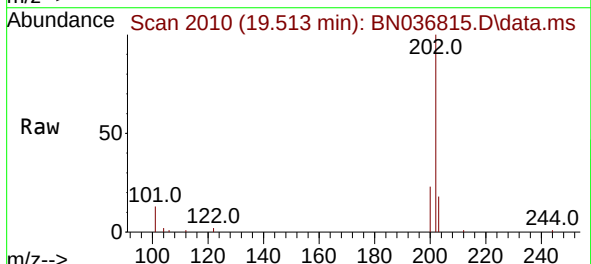
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

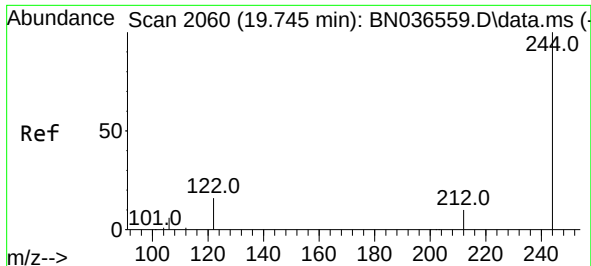
Tgt Ion:240 Resp: 3863
Ion Ratio Lower Upper
240 100
120 17.3 14.6 22.0
236 30.2 24.1 36.1



#30
Pyrene
Concen: 0.361 ng
RT: 19.513 min Scan# 2010
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:202 Resp: 6826
Ion Ratio Lower Upper
202 100
200 21.6 17.1 25.7
203 17.8 14.1 21.1

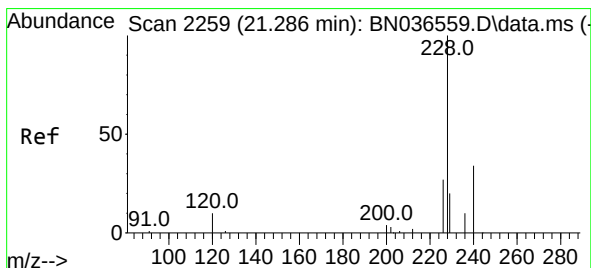
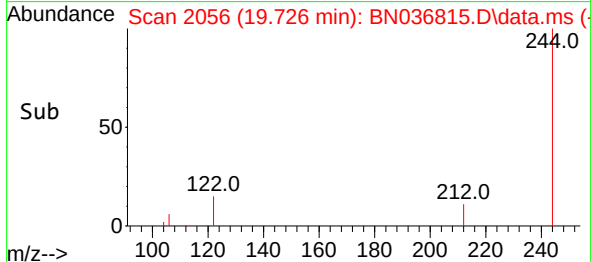
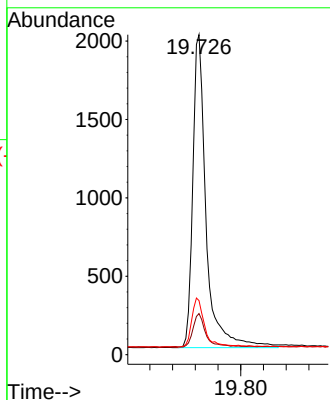
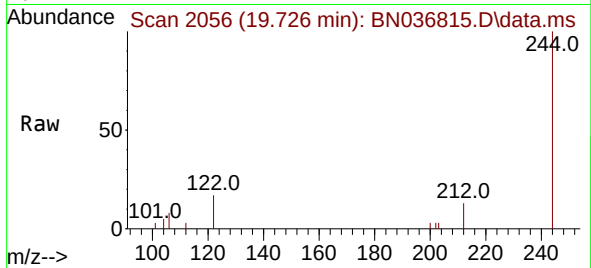




#31
 Terphenyl-d14
 Concen: 0.352 ng
 RT: 19.726 min Scan# 2056
 Delta R.T. -0.018 min
 Lab File: BN036815.D
 Acq: 31 Mar 2025 15:08

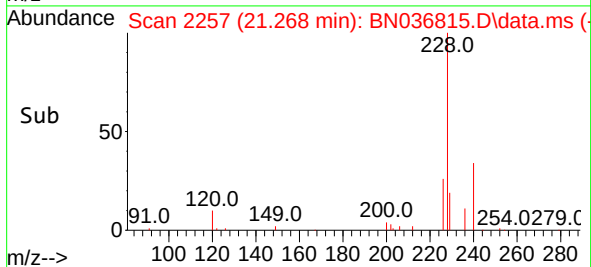
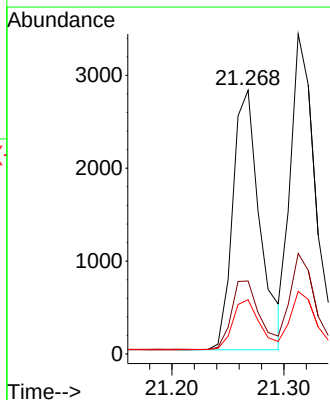
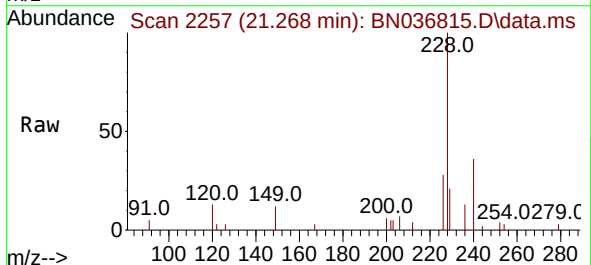
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

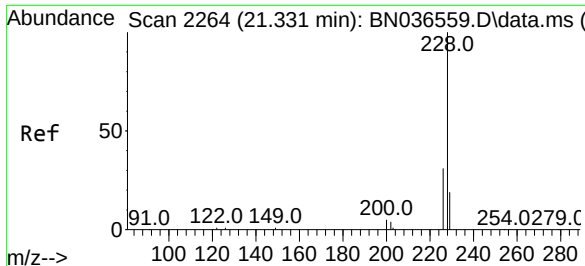
Tgt Ion:244 Resp: 3254
 Ion Ratio Lower Upper
 244 100
 212 12.9 9.6 14.4
 122 16.9 13.9 20.9



#32
 Benzo(a)anthracene
 Concen: 0.351 ng
 RT: 21.268 min Scan# 2257
 Delta R.T. -0.018 min
 Lab File: BN036815.D
 Acq: 31 Mar 2025 15:08

Tgt Ion:228 Resp: 4715
 Ion Ratio Lower Upper
 228 100
 226 27.7 22.5 33.7
 229 20.6 16.6 25.0

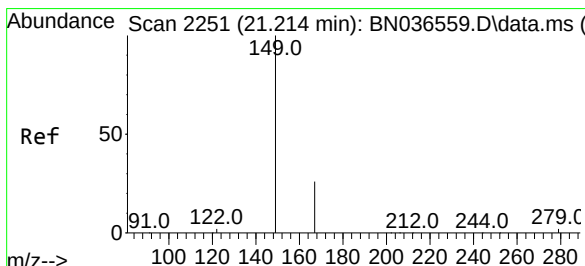
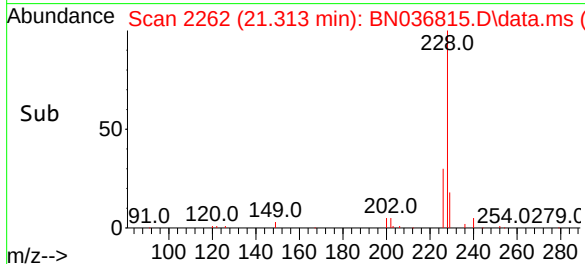
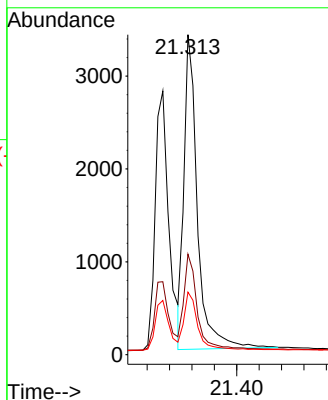
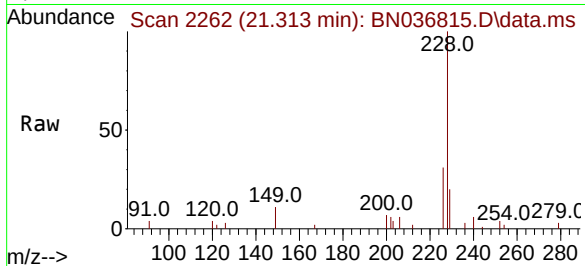




#33
Chrysene
Concen: 0.385 ng
RT: 21.313 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

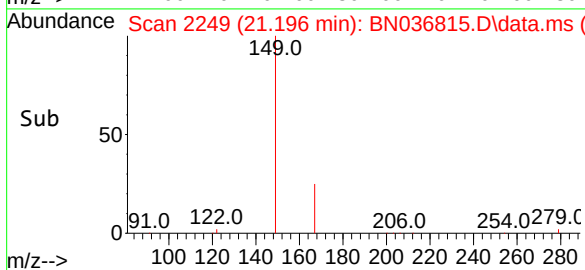
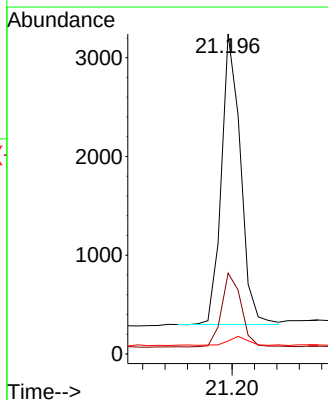
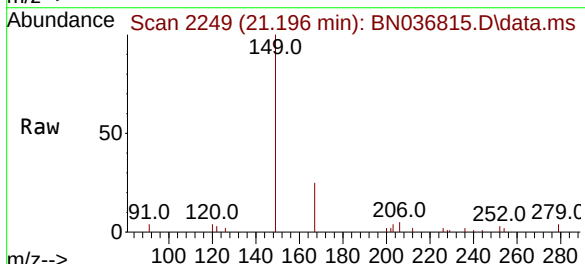
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

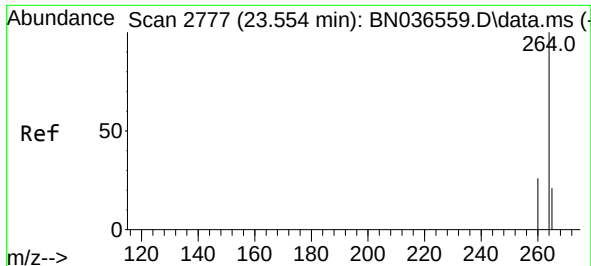
Tgt Ion:228	Resp:	5650
Ion Ratio	Lower	Upper
228	100	
226	31.4	25.3 37.9
229	19.6	15.8 23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.364 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.018 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:149	Resp:	3477
Ion Ratio	Lower	Upper
149	100	
167	26.4	20.7 31.1
279	3.1	3.6 5.4#

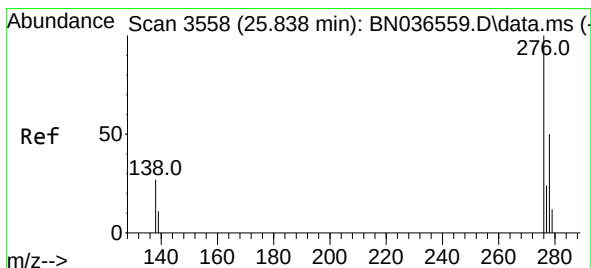
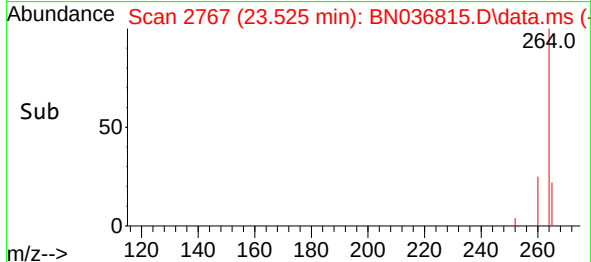
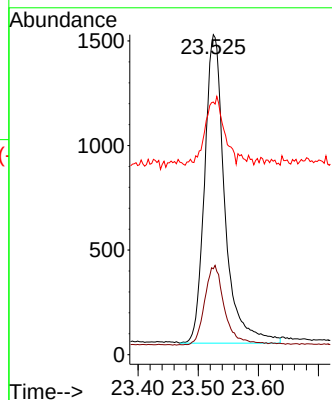
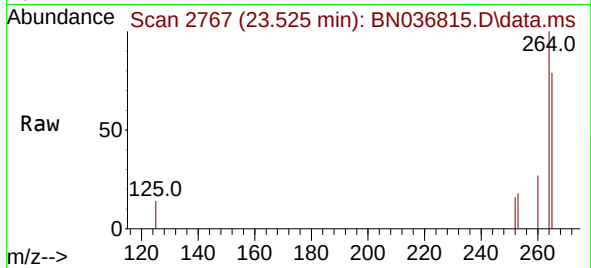




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.525 min Scan# 21
Delta R.T. -0.029 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

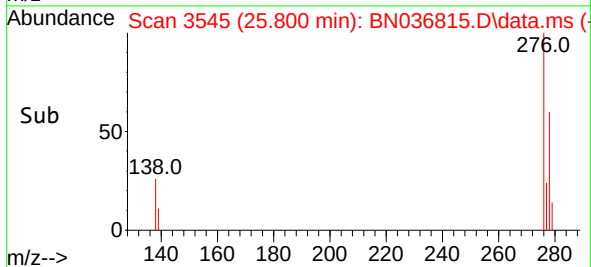
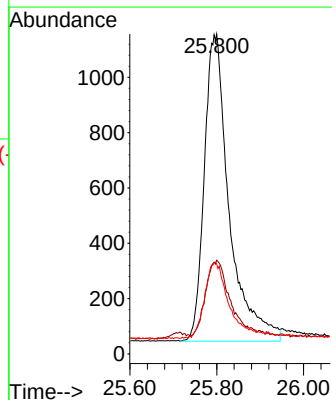
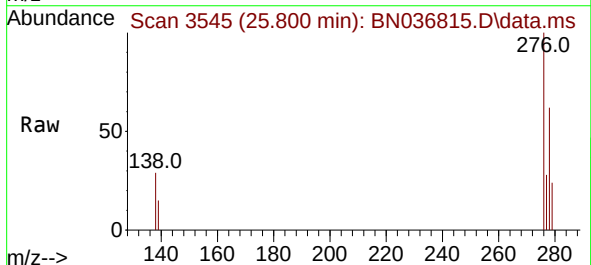
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

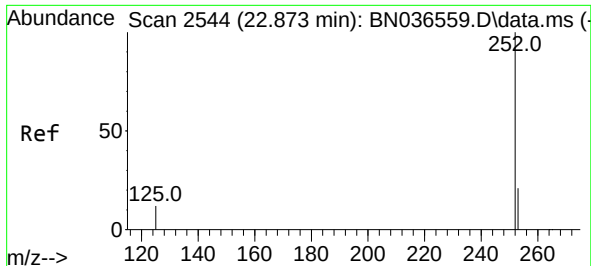
Tgt Ion:264 Resp: 3435
Ion Ratio Lower Upper
264 100
260 26.9 22.6 33.8
265 79.0 88.1 132.1#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.357 ng
RT: 25.800 min Scan# 3545
Delta R.T. -0.038 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:276 Resp: 4428
Ion Ratio Lower Upper
276 100
138 24.1 23.4 35.2
277 23.9 20.0 30.0

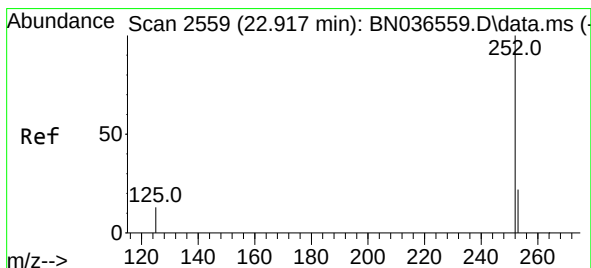
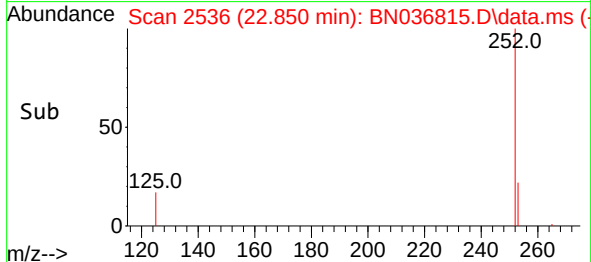
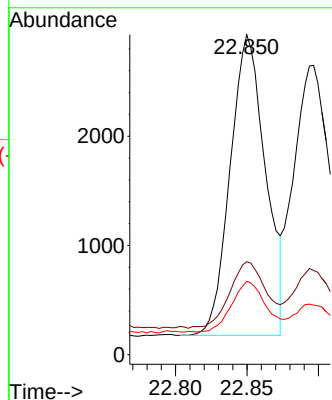
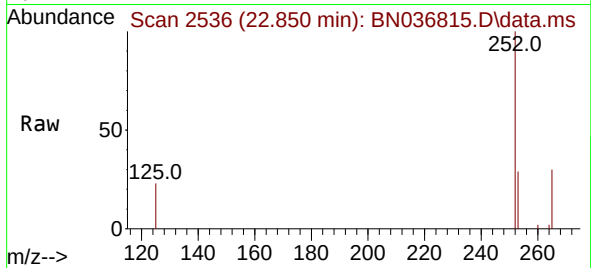




#37
Benzo(b)fluoranthene
Concen: 0.379 ng
RT: 22.850 min Scan# 21
Delta R.T. -0.023 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

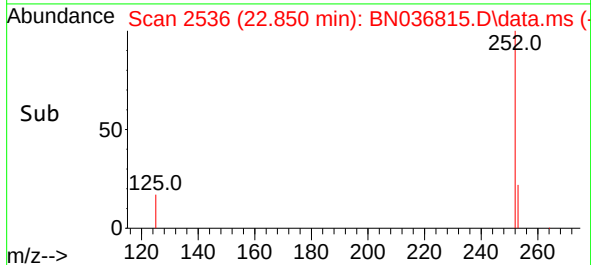
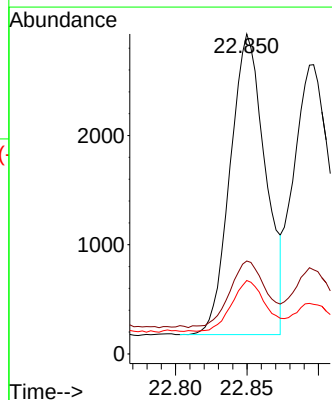
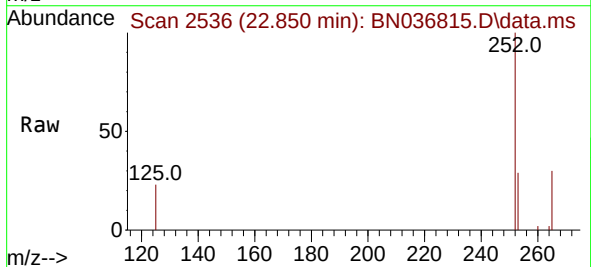
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

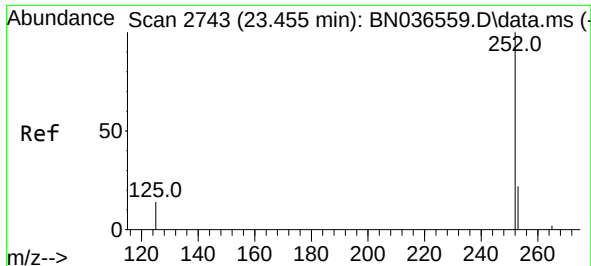
Tgt Ion:252 Resp: 4732
Ion Ratio Lower Upper
252 100
253 29.0 23.9 35.9
125 22.9 17.4 26.2



#38
Benzo(k)fluoranthene
Concen: 0.361 ng
RT: 22.850 min Scan# 2536
Delta R.T. -0.067 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Tgt Ion:252 Resp: 4732
Ion Ratio Lower Upper
252 100
253 29.0 24.6 36.8
125 22.9 17.8 26.8





#39

Benzo(a)pyrene

Concen: 0.399 ng

RT: 23.429 min Scan# 21

Delta R.T. -0.026 min

Lab File: BN036815.D

Acq: 31 Mar 2025 15:08

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

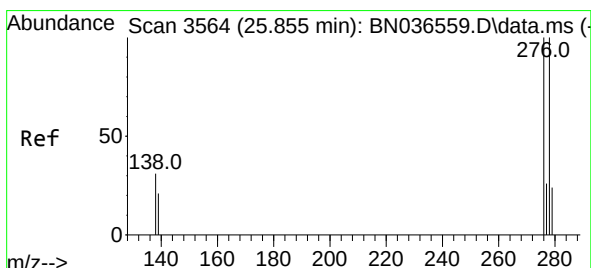
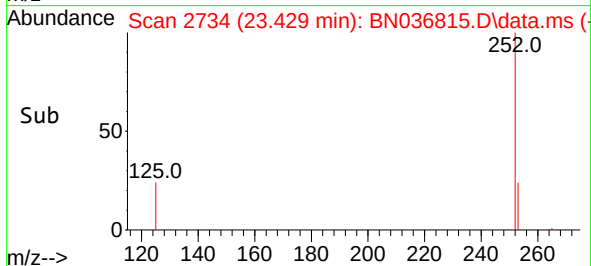
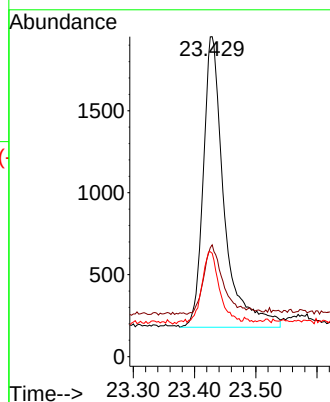
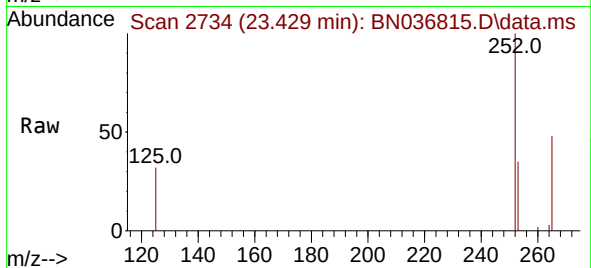
Tgt Ion:252 Resp: 4200

Ion Ratio Lower Upper

252 100

253 34.9 27.8 41.8

125 32.3 22.7 34.1



#40

Dibenzo(a,h)anthracene

Concen: 0.340 ng

RT: 25.811 min Scan# 3549

Delta R.T. -0.044 min

Lab File: BN036815.D

Acq: 31 Mar 2025 15:08

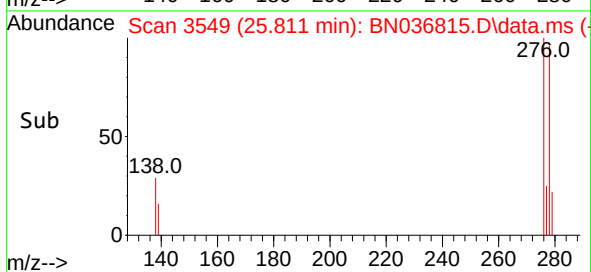
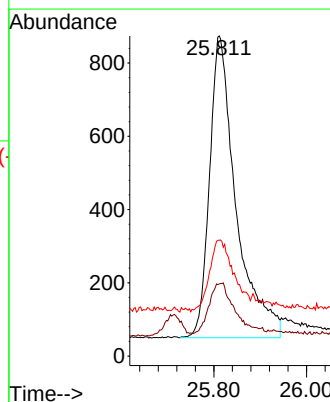
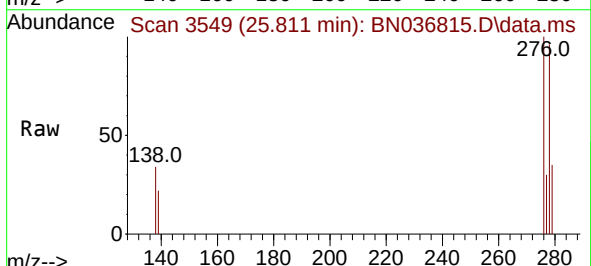
Tgt Ion:278 Resp: 3277

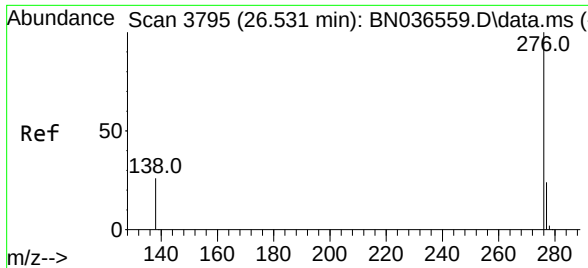
Ion Ratio Lower Upper

278 100

139 22.5 20.8 31.2

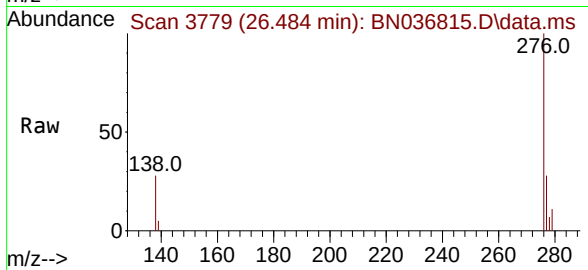
279 36.2 28.8 43.2





#41
Benzo(g,h,i)perylene
Concen: 0.363 ng
RT: 26.484 min Scan# 31
Delta R.T. -0.047 min
Lab File: BN036815.D
Acq: 31 Mar 2025 15:08

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:276 Resp: 4006
Ion Ratio Lower Upper
276 100
277 27.7 22.2 33.4
138 27.6 24.1 36.1

