

Cover Page

Order ID : Q1477

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1477-01
Q1477-02
Q1477-03
Q1477-04

Client Sample Number

RW7-SP100-20250228
RW7-SP201-20250228
RW7-SP302-20250228
RW7-SP303-20250228

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

Signature : _____

Date: 3/7/2025

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager: Ernie Wu

Chemtech Project # Q1477

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

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

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Metals Group3, 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 PB166992BL [2-Fluorobiphenyl - 160%], PB166992BS [2-Fluorobiphenyl - 142%], PB166992BSD [2-Fluorobiphenyl - 154%], RW7-SP100-20250228 [2-Fluorobiphenyl - 129%, Terphenyl-d14 - 136%], RW7-SP201-20250228 [2-Fluorobiphenyl - 125%], RW7-SP302-20250228 [2-Fluorobiphenyl - 139%] and RW7-SP303-20250228 [2-Fluorobiphenyl - 122%], 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 BN036524.D met the requirements except for 2,4,6-Tribromophenol and 2-Fluorobiphenyl, The failure compounds not associated with the client parameters list, therefore no corrective action was taken.



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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_____

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: Q1477

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 BN036524.D met the requirements except for 2,4,6-Tribromophenol and 2-Fluorobiphenyl, The failure compounds 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 PB166992BL [2- Fluorobiphenyl - 160%], PB166992BS [2-Fluorobiphenyl - 142%], PB166992BSD [2- Fluorobiphenyl - 154%], RW7-SP100-20250228 [2-Fluorobiphenyl - 129%, Terphenyl- d14 - 136%], RW7-SP201-20250228 [2-Fluorobiphenyl - 125%], RW7-SP302- 20250228 [2-Fluorobiphenyl - 139%] and RW7-SP303-20250228 [2-Fluorobiphenyl - 122%], 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.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1477

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 03/07/2025

LAB CHRONICLE

OrderID:	Q1477	OrderDate:	3/3/2025 10:23:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	H41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1477-01	RW7-SP100-20250228	Water	SVOC-SIMGroup1	8270-Modified	02/28/25	03/05/25	03/05/25	03/03/25
Q1477-02	RW7-SP201-20250228	Water	SVOC-SIMGroup1	8270-Modified	02/28/25	03/05/25	03/05/25	03/03/25
Q1477-03	RW7-SP302-20250228	Water	SVOC-SIMGroup1	8270-Modified	02/28/25	03/05/25	03/05/25	03/03/25
Q1477-04	RW7-SP303-20250228	Water	SVOC-SIMGroup1	8270-Modified	02/28/25	03/05/25	03/05/25	03/03/25



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Hit Summary Sheet
SW-846

SDG No.: Q1477

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW7-SP100-20250228								
Q1477-01	RW7-SP100-20250228	WATER	1,4-Dioxane	5.500	0.08	0.24	0.24	ug/L
Total Svoc :				5.50				
Total Concentration:				5.50				



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q1477

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB166992BL	PB166992BL	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.42	104		55	111
		2-Fluorobiphenyl	0.4	0.64	160	*	53	106
		Terphenyl-d14	0.4	0.43	108		58	132
PB166992BS	PB166992BS	2-Methylnaphthalene-d10	0.4	0.49	122		30	150
		Fluoranthene-d10	0.4	0.39	98		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.57	142	*	53	106
		Terphenyl-d14	0.4	0.46	114		58	132
PB166992BSD	PB166992BSD	2-Methylnaphthalene-d10	0.4	0.50	124		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.41	102		55	111
		2-Fluorobiphenyl	0.4	0.62	154	*	53	106
		Terphenyl-d14	0.4	0.46	115		58	132
Q1477-01	RW7-SP100-20250228	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.51	127		30	150
		Nitrobenzene-d5	0.4	0.37	91		55	111
		2-Fluorobiphenyl	0.4	0.52	129	*	53	106
		Terphenyl-d14	0.4	0.55	136	*	58	132
Q1477-02	RW7-SP201-20250228	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.47	118		30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.50	125	*	53	106
		Terphenyl-d14	0.4	0.50	125		58	132
Q1477-03	RW7-SP302-20250228	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.51	127		30	150
		Nitrobenzene-d5	0.4	0.38	96		55	111
		2-Fluorobiphenyl	0.4	0.56	139	*	53	106
		Terphenyl-d14	0.4	0.48	119		58	132
Q1477-04	RW7-SP303-20250228	2-Methylnaphthalene-d10	0.4	0.30	76		30	150
		Fluoranthene-d10	0.4	0.46	114		30	150
		Nitrobenzene-d5	0.4	0.31	78		55	111
		2-Fluorobiphenyl	0.4	0.49	122	*	53	106
		Terphenyl-d14	0.4	0.49	123		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1477

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN036530.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB166992BS	1,4-Dioxane	0.4	0.36	ug/L	90				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1477

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN036531.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB166992BSD	1,4-Dioxane	0.4	0.38	ug/L	95	5			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166992BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1477

SAS No.: Q1477 SDG NO.: Q1477

Lab File ID: BN036525.D

Lab Sample ID: PB166992BL

Instrument ID: BNA_N

Date Extracted: 03/05/2025

Matrix: (soil/water) Water

Date Analyzed: 03/05/2025

Level: (low/med) LOW

Time Analyzed: 15:42

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166992BS	PB166992BS	BN036530.D	03/05/2025
RW7-SP100-20250228	Q1477-01	BN036526.D	03/05/2025
RW7-SP201-20250228	Q1477-02	BN036527.D	03/05/2025
RW7-SP302-20250228	Q1477-03	BN036528.D	03/05/2025
PB166992BSD	PB166992BSD	BN036531.D	03/05/2025
RW7-SP303-20250228	Q1477-04	BN036529.D	03/05/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1477 SDG NO.: Q1477Lab File ID: BN036408.DDFTPP Injection Date: 02/10/2025Instrument ID: BNA_NDFTPP Injection Time: 11:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	51.4
68	Less than 2.0% of mass 69	0.3 (0.7) 1
69	Mass 69 relative abundance	47.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	48.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	24.7
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	7.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.5 (20.1) 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	BN036409.D	02/10/2025	12:25
SSTDICC0.2	SSTDICC0.2	BN036410.D	02/10/2025	13:01
SSTDICCC0.4	SSTDICCC0.4	BN036411.D	02/10/2025	13:36
SSTDICC0.8	SSTDICC0.8	BN036412.D	02/10/2025	14:12
SSTDICC1.6	SSTDICC1.6	BN036413.D	02/10/2025	14:48
SSTDICC3.2	SSTDICC3.2	BN036414.D	02/10/2025	15:24
SSTDICC5.0	SSTDICC5.0	BN036415.D	02/10/2025	16:00



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1477SDG NO.: Q1477Lab File ID: BN036523.DDFTPP Injection Date: 03/05/2025Instrument ID: BNA_NDFTPP Injection Time: 12:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	57.3
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	52.6
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	50.2
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
275	10.0 - 60.0% of mass 198	25
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	9.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.4 (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	BN036524.D	03/05/2025	13:31
PB166992BL	PB166992BL	BN036525.D	03/05/2025	15:42
RW7-SP100-20250228	Q1477-01	BN036526.D	03/05/2025	16:18
RW7-SP201-20250228	Q1477-02	BN036527.D	03/05/2025	16:54
RW7-SP302-20250228	Q1477-03	BN036528.D	03/05/2025	17:30
RW7-SP303-20250228	Q1477-04	BN036529.D	03/05/2025	18:07
PB166992BS	PB166992BS	BN036530.D	03/05/2025	18:43
PB166992BSD	PB166992BSD	BN036531.D	03/05/2025	19:18
SSTDCCC0.4EC	SSTDCCC0.4	BN036532.D	03/05/2025	19:55

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1477 SAS No.: Q1477 SDG NO.: Q1477

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/05/2025

Lab File ID: BN036524.D Time Analyzed: 13:31

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	2348	7.732	5891	10.51	3887	14.37
UPPER LIMIT	4696	8.232	11782	11.009	7774	14.866
LOWER LIMIT	1174	7.232	2945.5	10.009	1943.5	13.866
EPA SAMPLE NO.						
01 PB166992BL	2434	7.72	5613	10.51	3101	14.37
02 RW7-SP100-20250228	2030	7.73	4623	10.52	2883	14.37
03 PB166992BS	2101	7.73	4843	10.52	2666	14.37
04 RW7-SP201-20250228	1905	7.73	4453	10.52	2798	14.37
05 RW7-SP302-20250228	2903	7.73	6906	10.52	4230	14.37
06 RW7-SP303-20250228	1825	7.73	4151	10.52	2616	14.37
07 PB166992BSD	1886	7.73	4343	10.52	2423	14.37

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.: Q1477 SAS No.: Q1477 SDG NO.: Q1477

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 03/05/2025

Lab File ID: BN036524.D Time Analyzed: 13:31

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	7928	17.111	7302	21.295	7292	23.551
UPPER LIMIT	15856	17.611	14604	21.795	14584	24.051
LOWER LIMIT	3964	16.611	3651	20.795	3646	23.051
EPA SAMPLE NO.						
01 PB166992BL	6620	17.11	5887	21.30	5416	23.56
02 RW7-SP100-20250228	6253	17.11	6117	21.29	5519	23.55
03 PB166992BS	5405	17.11	4446	21.30	4016	23.56
04 RW7-SP201-20250228	6074	17.11	6274	21.30	5876	23.55
05 RW7-SP302-20250228	8982	17.11	9606	21.30	8798	23.55
06 RW7-SP303-20250228	5706	17.11	5791	21.30	5265	23.56
07 PB166992BSD	4936	17.11	4101	21.30	3858	23.56

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/28/25
Project:	CTO WE13	Date Received:	03/03/25
Client Sample ID:	RW7-SP100-20250228	SDG No.:	Q1477
Lab Sample ID:	Q1477-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	820 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
BN036526.D	1	03/05/25 09:15	03/05/25 16:18	PB166992

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.50		0.080	0.24	0.24	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.51		30 - 150		127%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.52	*	53 - 106		129%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		136%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2030	7.731				
1146-65-2	Naphthalene-d8	4620	10.519				
15067-26-2	Acenaphthene-d10	2880	14.366				
1517-22-2	Phenanthrene-d10	6250	17.111				
1719-03-5	Chrysene-d12	6120	21.294				
1520-96-3	Perylene-d12	5520	23.554				

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\BN030525\
 Data File : BN036526.D
 Acq On : 05 Mar 2025 16:18
 Operator : RC/JU
 Sample : Q1477-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP100-20250228

Quant Time: Mar 05 17:02:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

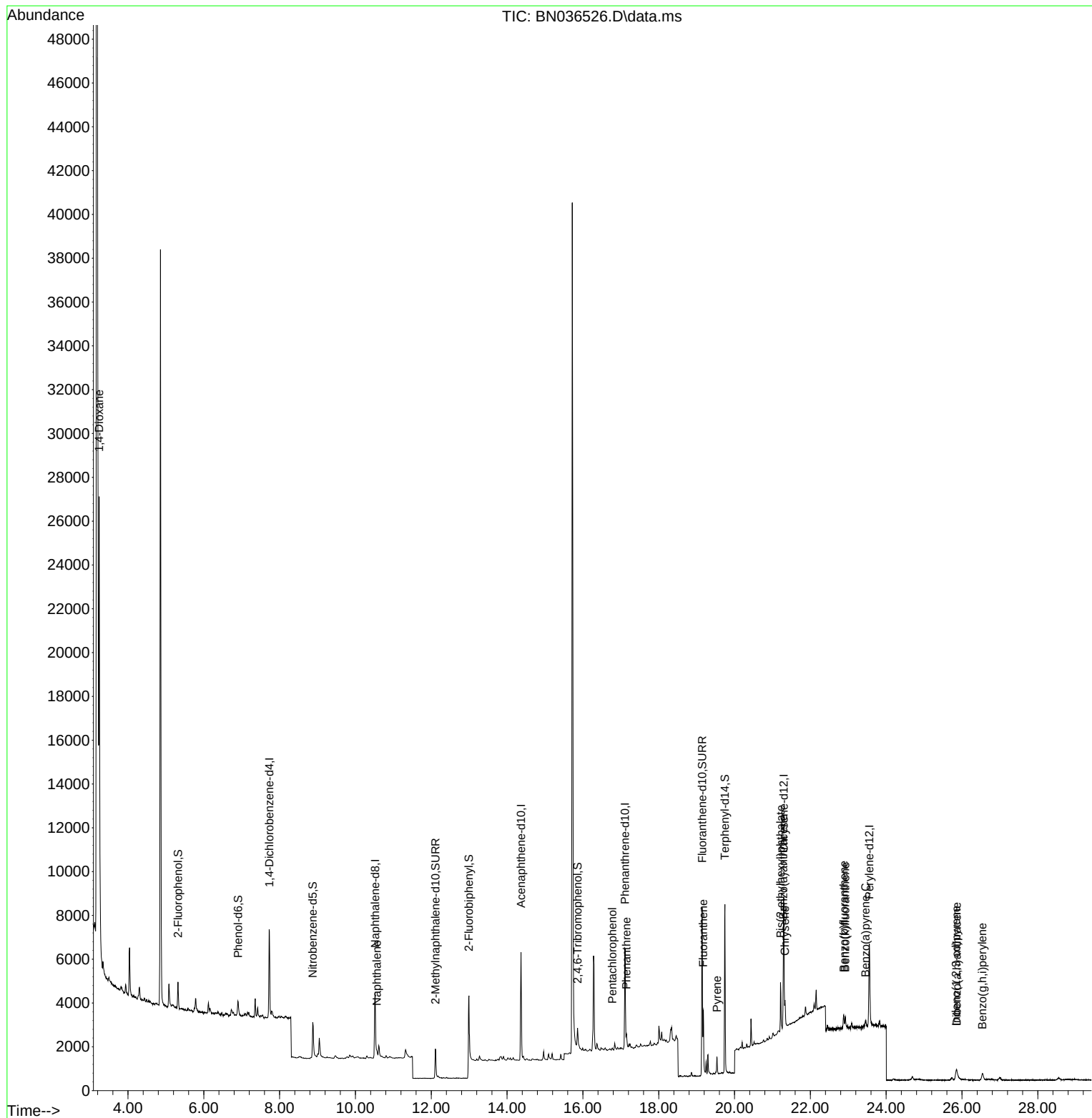
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.731	152	2030	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	4623	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2883	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6253	0.400	ng	0.00
29) Chrysene-d12	21.294	240	6117	0.400	ng	0.00
35) Perylene-d12	23.554	264	5519	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	863	0.180	ng	0.00
5) Phenol-d6	6.908	99	606	0.108	ng	0.00
8) Nitrobenzene-d5	8.875	82	1668	0.366	ng	0.00
11) 2-Methylnaphthalene-d10	12.110	152	2244	0.316	ng	0.00
14) 2,4,6-Tribromophenol	15.857	330	556	0.389	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	5600	0.517	ng	0.00
27) Fluoranthene-d10	19.145	212	8827	0.508	ng	0.00
31) Terphenyl-d14	19.745	244	7115	0.545	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	9948	4.479	ng	97
9) Naphthalene	10.562	128	363	0.027	ng	# 44
24) Pentachlorophenol	16.776	266	65	0.030	ng	# 83
25) Phenanthrene	17.148	178	611	0.034	ng	# 96
28) Fluoranthene	19.173	202	783	0.035	ng	# 1
30) Pyrene	19.536	202	719	0.031	ng	98
32) Benzo(a)anthracene	21.285	228	627	0.031	ng	# 80
33) Chrysene	21.330	228	768	0.035	ng	# 85
34) Bis(2-ethylhexyl)phtha...	21.214	149	2328	0.186	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.846	276	782	0.041	ng	# 83
37) Benzo(b)fluoranthene	22.879	252	759	0.042	ng	# 15
38) Benzo(k)fluoranthene	22.922	252	737	0.039	ng	# 10
39) Benzo(a)pyrene	23.455	252	459	0.029	ng	# 1
40) Dibenzo(a,h)anthracene	25.864	278	594	0.039	ng	# 2
41) Benzo(g,h,i)perylene	26.536	276	718	0.042	ng	# 60

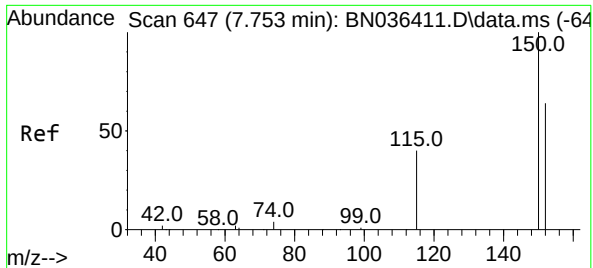
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
Data File : BN036526.D
Acq On : 05 Mar 2025 16:18
Operator : RC/JU
Sample : Q1477-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250228

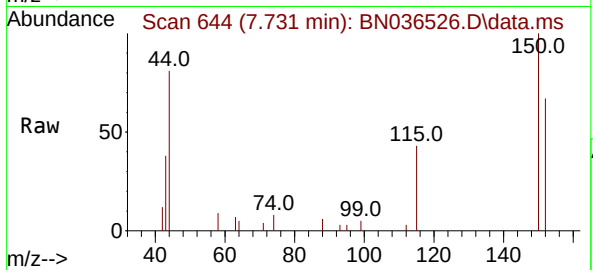
Quant Time: Mar 05 17:02:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration



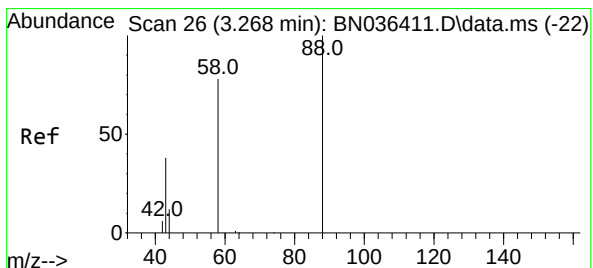
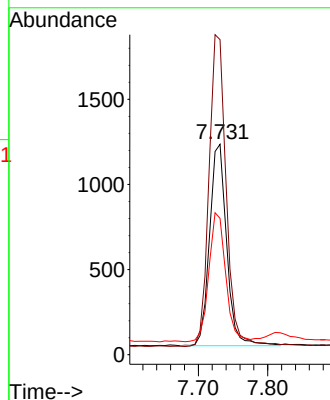
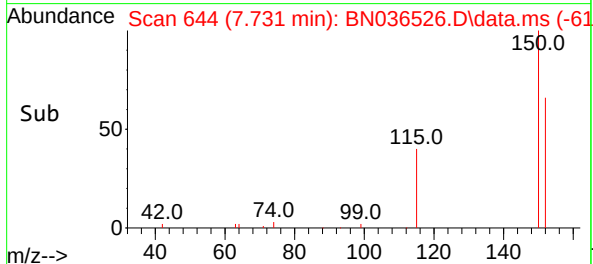


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.731 min Scan# 64
Delta R.T. -0.001 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250228

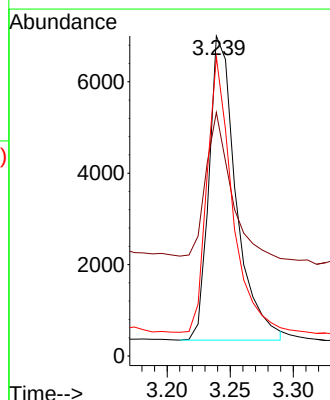
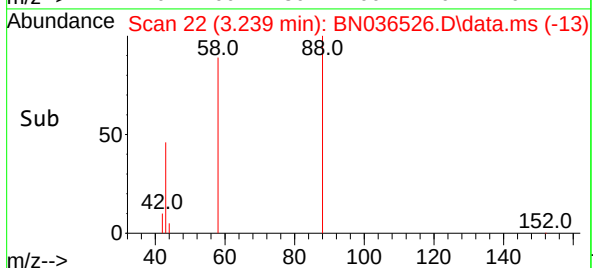
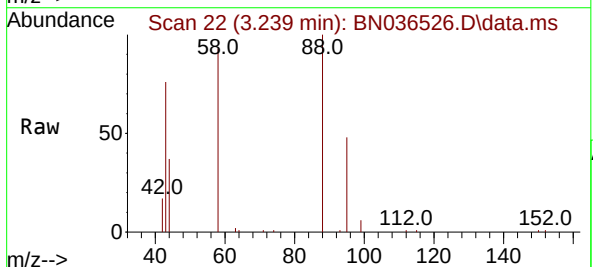


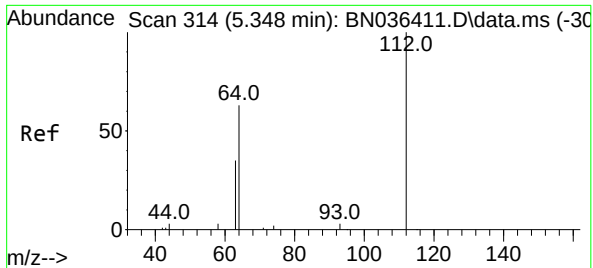
Tgt Ion:152 Resp: 2030
Ion Ratio Lower Upper
152 100
150 149.8 123.7 185.5
115 64.8 52.5 78.7



#2
1,4-Dioxane
Concen: 4.479 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.008 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

Tgt Ion: 88 Resp: 9948
Ion Ratio Lower Upper
88 100
43 44.6 33.7 50.5
58 84.0 68.9 103.3

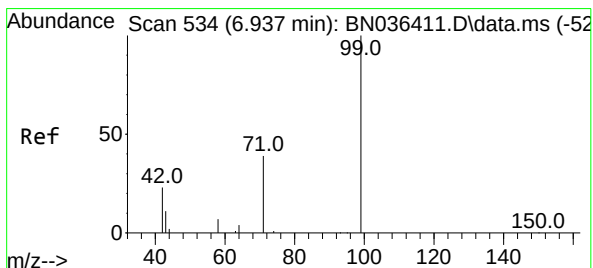
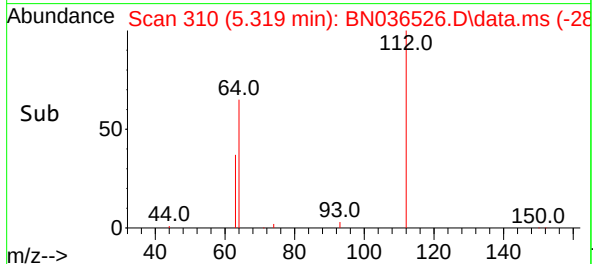
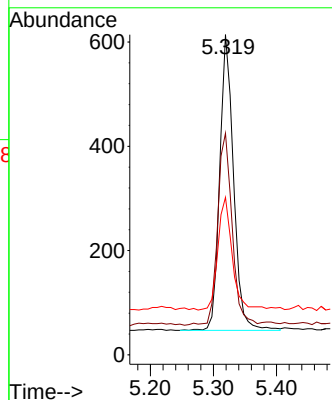
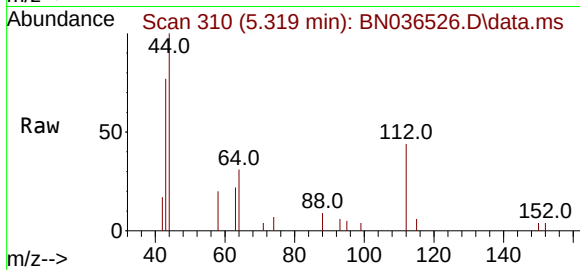




#4
2-Fluorophenol
Concen: 0.180 ng
RT: 5.319 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

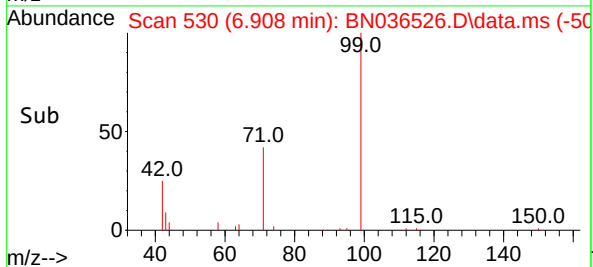
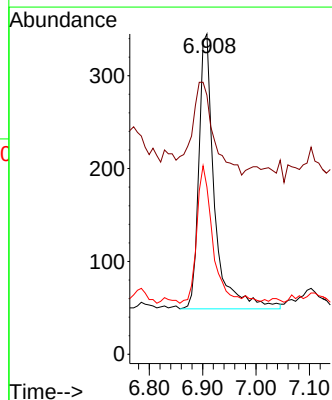
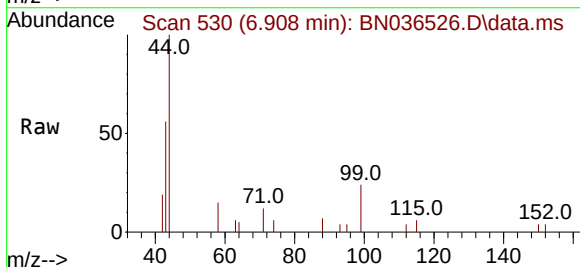
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BNA_N
ClientSampleId :
RW7-SP100-20250228

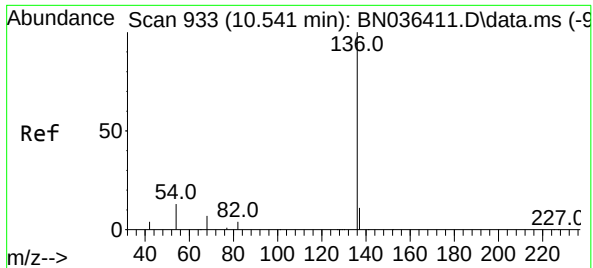
Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.8	53.4	80.0
63	39.7	30.3	45.5



#5
Phenol-d6
Concen: 0.108 ng
RT: 6.908 min Scan# 530
Delta R.T. 0.007 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

Tgt Ion	Ratio	Lower	Upper
99	100		
42	45.5	21.7	32.5#
71	50.5	32.6	49.0#

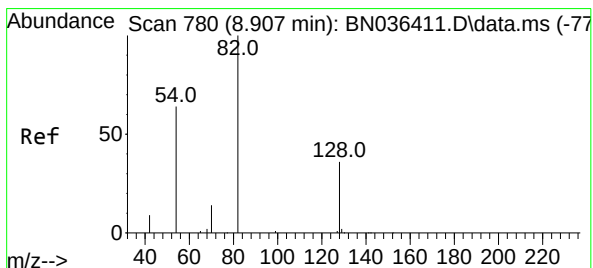
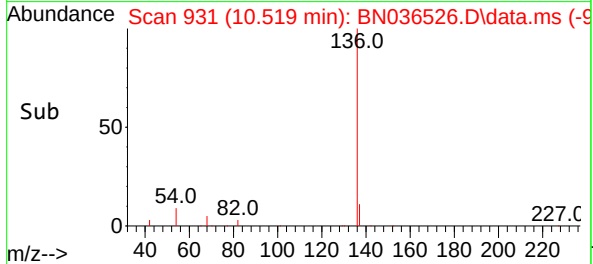
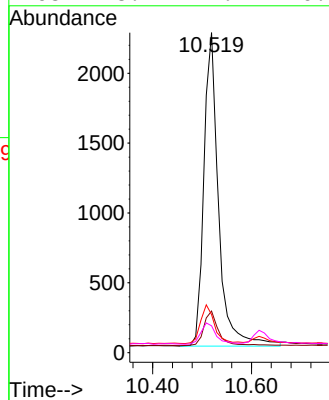
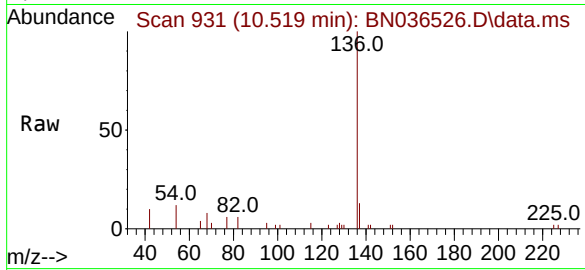




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 911
Delta R.T. 0.010 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

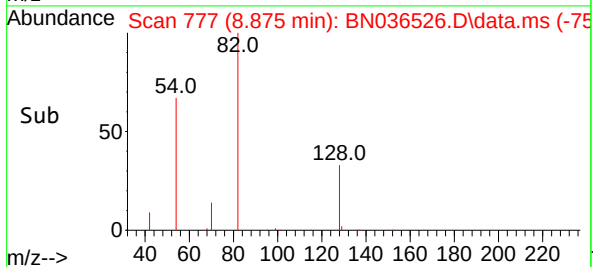
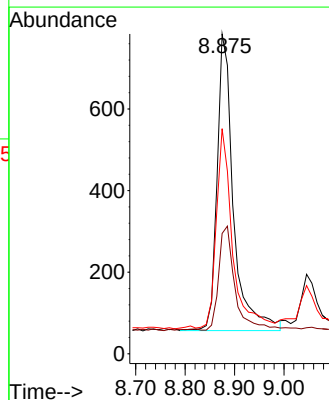
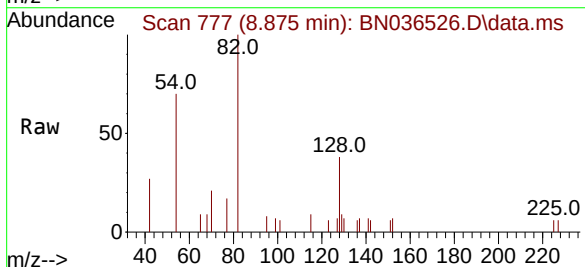
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250228

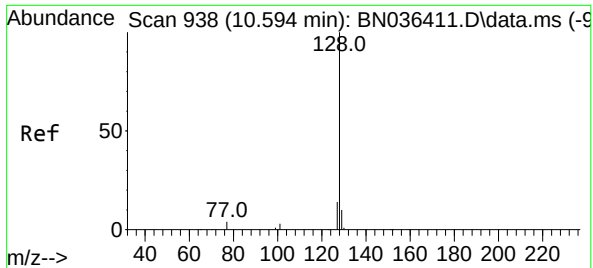
Tgt Ion:	136	Resp:	4623
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.1	15.1
54	11.9	11.8	17.6
68	8.4	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.366 ng
RT: 8.875 min Scan# 777
Delta R.T. -0.000 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

Tgt Ion:	82	Resp:	1668
Ion	Ratio	Lower	Upper
82	100		
128	37.6	31.9	47.9
54	70.4	53.1	79.7

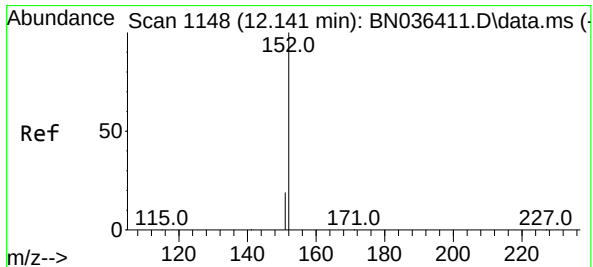
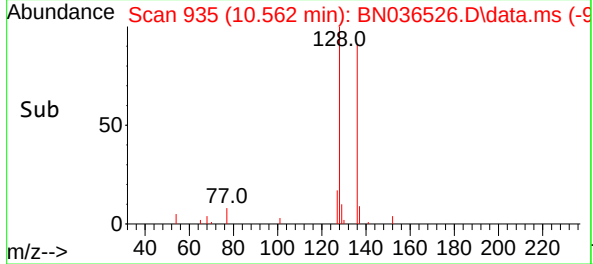
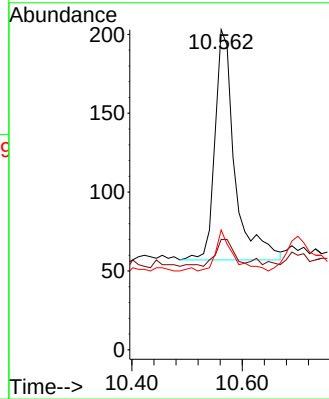
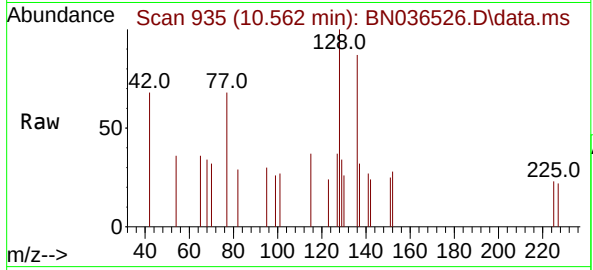




#9
Naphthalene
Concen: 0.027 ng
RT: 10.562 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

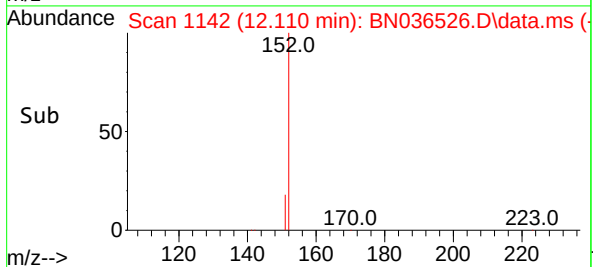
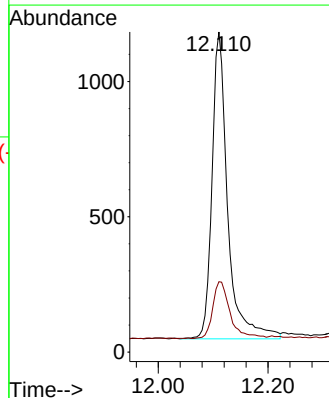
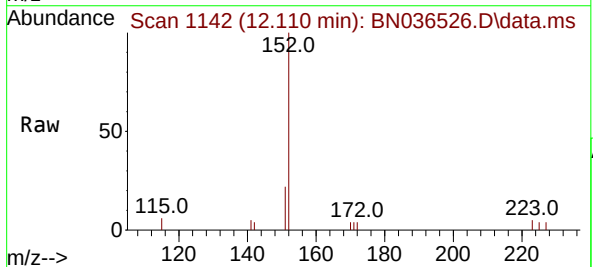
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250228

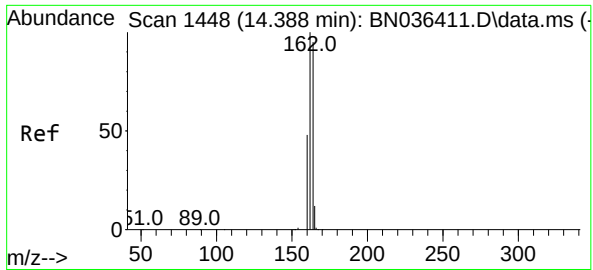
Tgt Ion:	128	Resp:	363
Ion	Ratio	Lower	Upper
128	100		
129	34.5	9.6	14.4#
127	37.4	12.0	18.0#



#11
2-Methylnaphthalene-d10
Concen: 0.316 ng
RT: 12.110 min Scan# 1142
Delta R.T. 0.005 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

Tgt Ion:	152	Resp:	2244
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

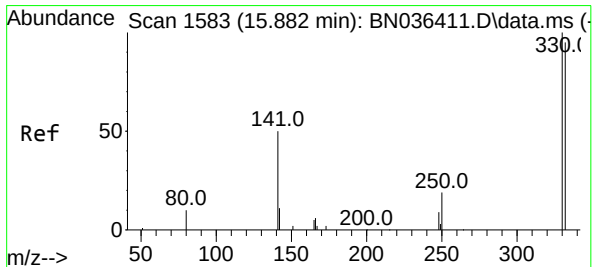
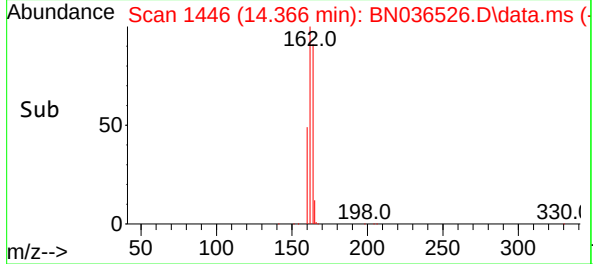
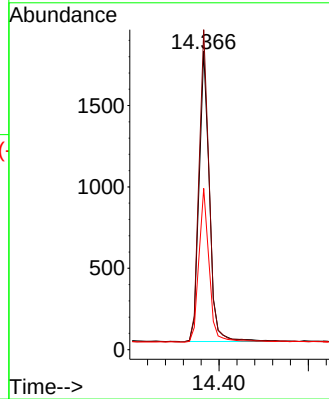
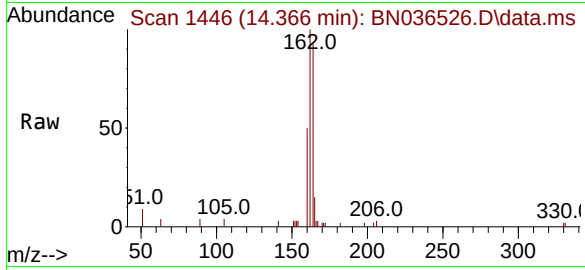




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

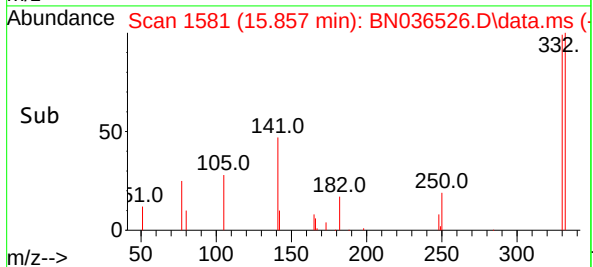
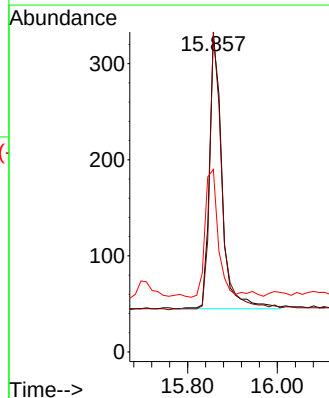
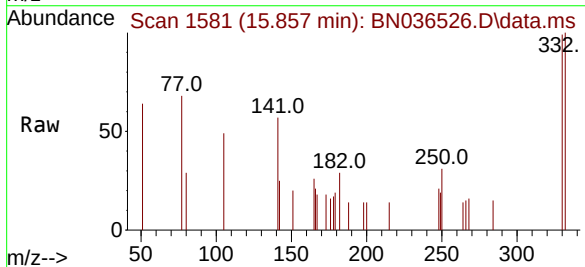
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BNA_N
ClientSampleId :
RW7-SP100-20250228

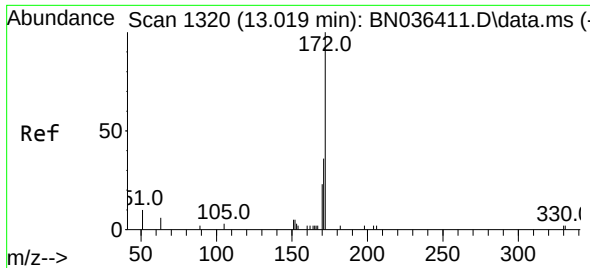
Tgt Ion:164 Resp: 2883
Ion Ratio Lower Upper
164 100
162 107.3 84.1 126.1
160 54.1 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.389 ng
RT: 15.857 min Scan# 1581
Delta R.T. -0.000 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

Tgt Ion:330 Resp: 556
Ion Ratio Lower Upper
330 100
332 96.2 76.6 114.8
141 48.6 37.8 56.8

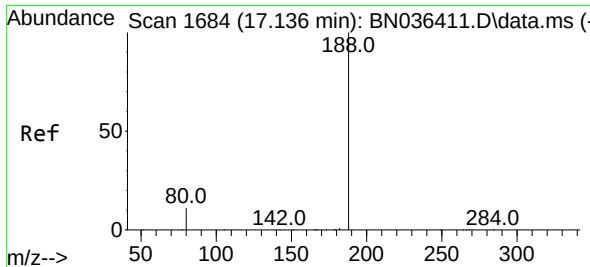
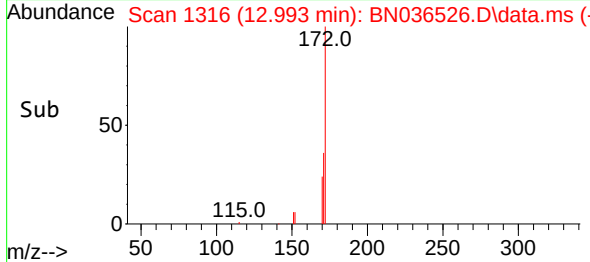
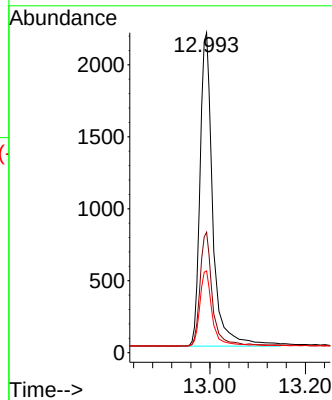
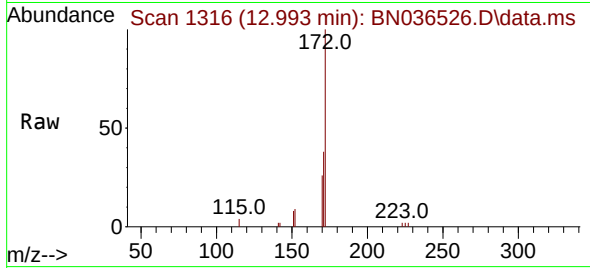




#15
2-Fluorobiphenyl
Concen: 0.517 ng
RT: 12.993 min Scan# 1316
Delta R.T. 0.005 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

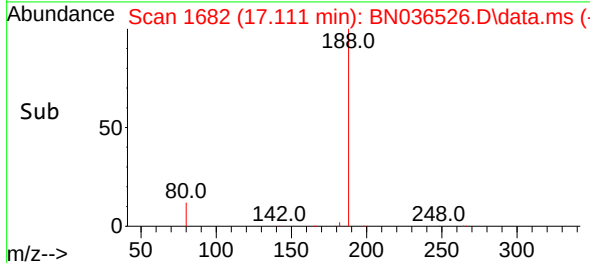
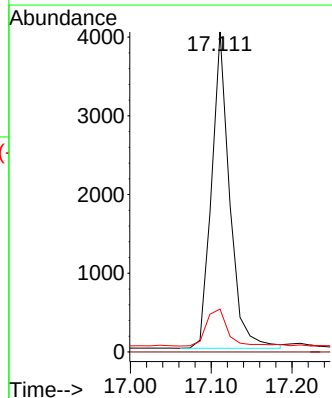
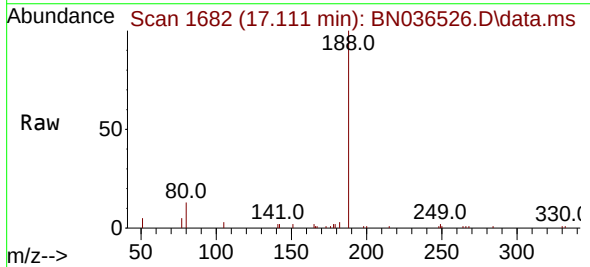
Instrument :
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ClientSampleId :
RW7-SP100-20250228

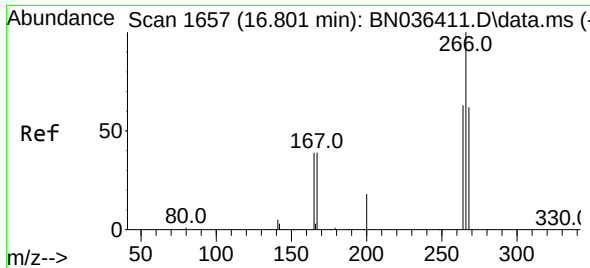
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.6	44.4
170	25.5	19.8	29.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. -0.000 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	9.8	14.6

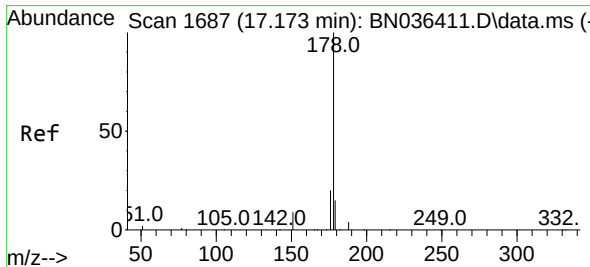
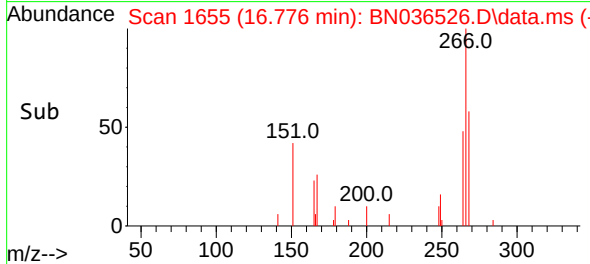
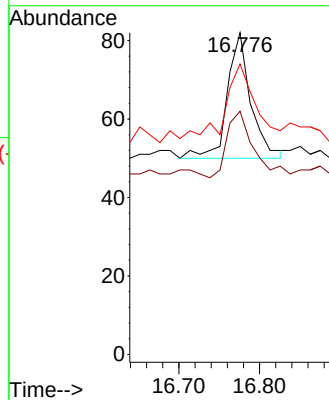
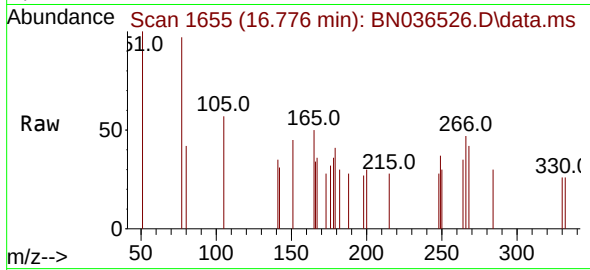




#24
Pentachlorophenol
Concen: 0.030 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.012 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

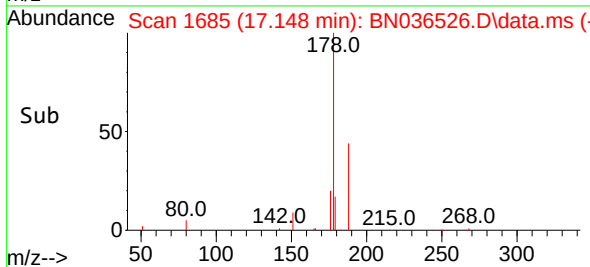
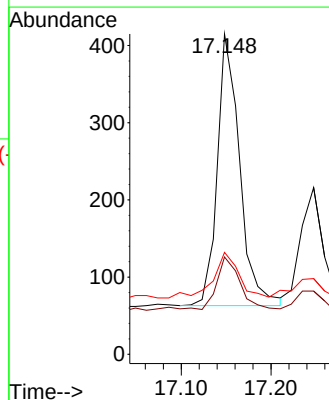
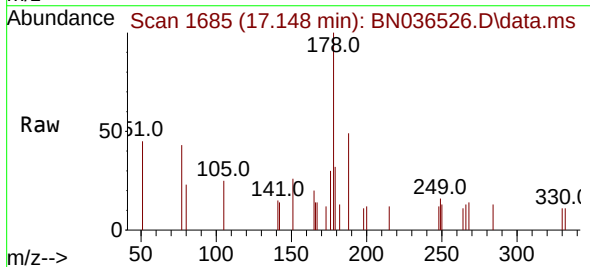
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250228

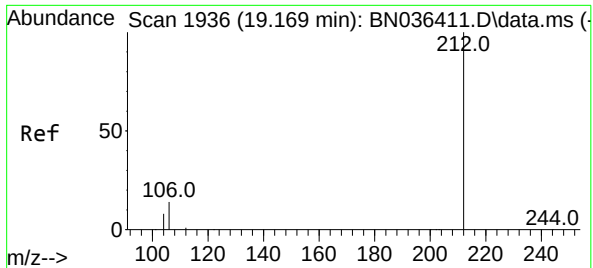
Tgt Ion:266 Resp: 65
Ion Ratio Lower Upper
266 100
264 60.0 50.6 76.0
268 87.7 51.9 77.9#



#25
Phenanthrene
Concen: 0.034 ng
RT: 17.148 min Scan# 1685
Delta R.T. -0.000 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

Tgt Ion:178 Resp: 611
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 19.3 12.4 18.6#

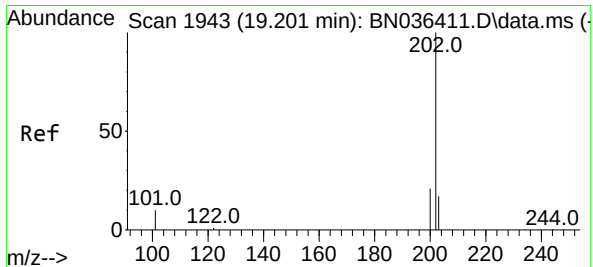
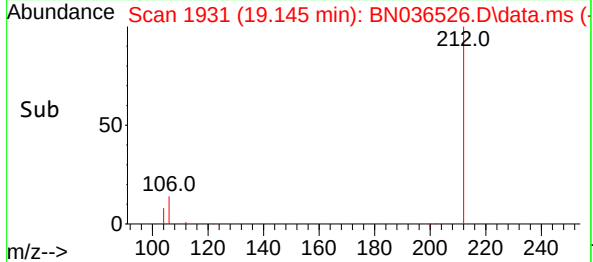
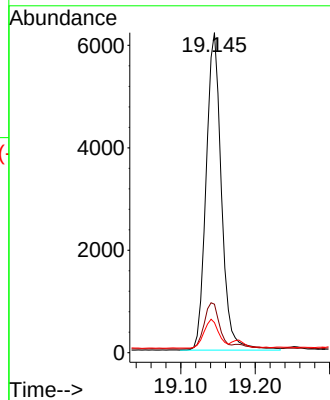
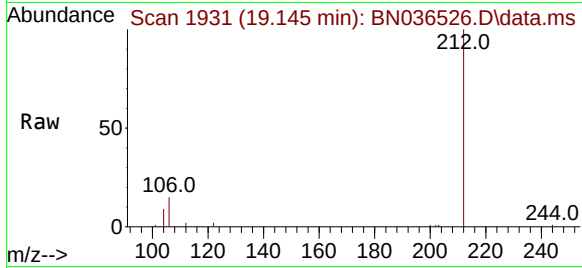




#27
Fluoranthene-d10
Concen: 0.508 ng
RT: 19.145 min Scan# 1931
Delta R.T. 0.004 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

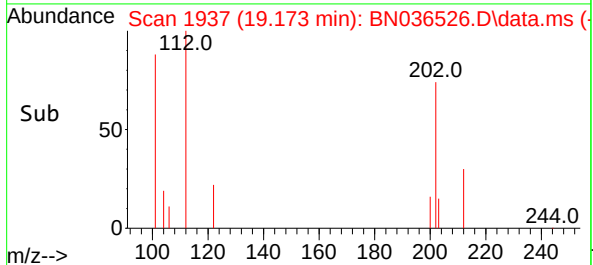
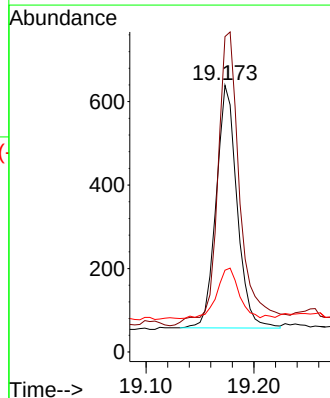
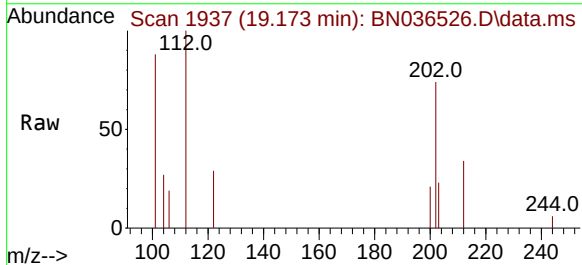
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250228

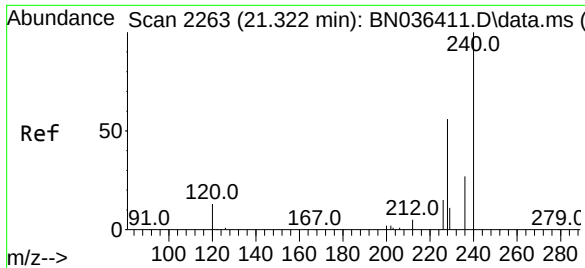
Tgt Ion	212	Resp	8827
Ion Ratio	Lower	Upper	
212	100		
106	14.7	11.5	17.3
104	8.8	7.1	10.7



#28
Fluoranthene
Concen: 0.035 ng
RT: 19.173 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

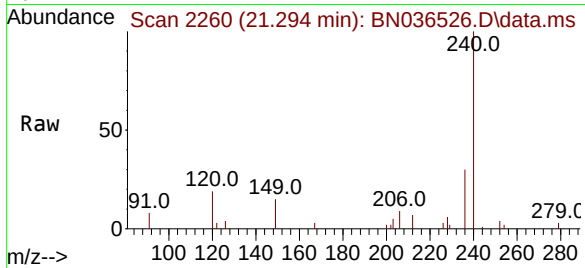
Tgt Ion	202	Resp	783
Ion Ratio	Lower	Upper	
202	100		
101	131.2	9.2	13.8#
203	22.1	13.4	20.0#



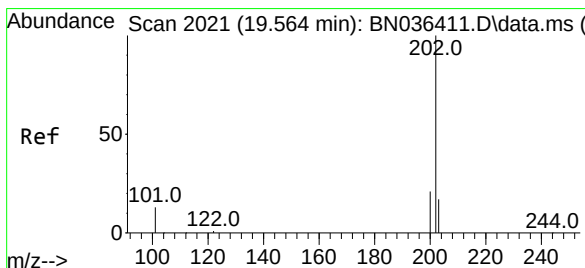
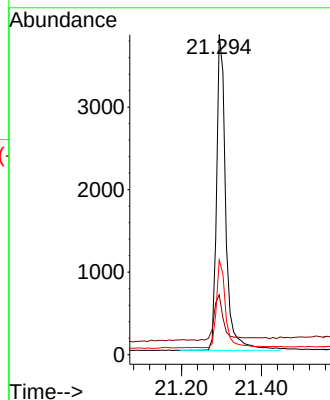
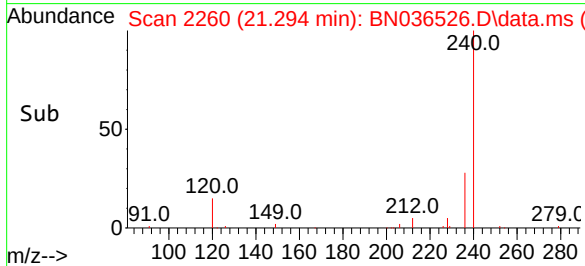


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.294 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250228

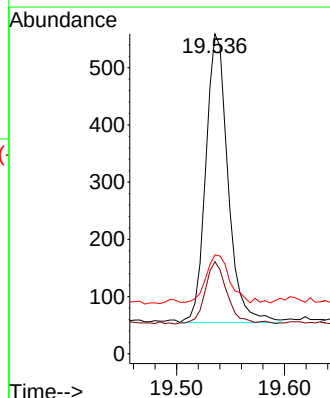
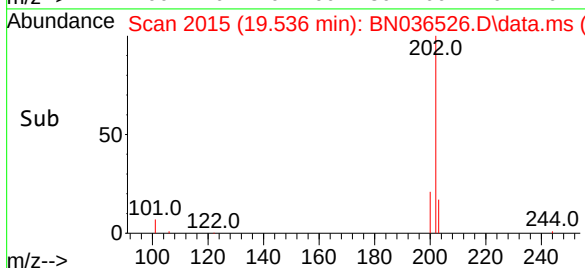
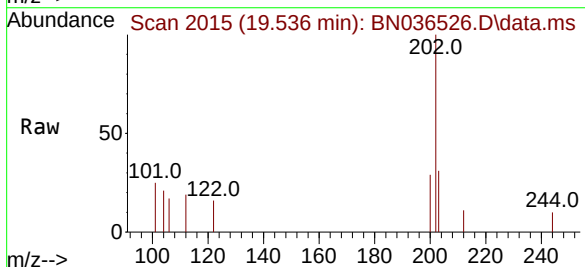


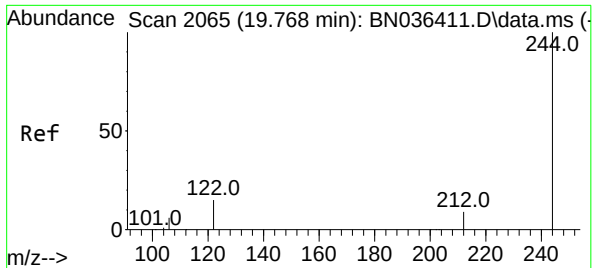
Tgt Ion:240 Resp: 6117
Ion Ratio Lower Upper
240 100
120 18.7 13.3 19.9
236 29.6 23.0 34.6



#30
Pyrene
Concen: 0.031 ng
RT: 19.536 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

Tgt Ion:202 Resp: 719
Ion Ratio Lower Upper
202 100
200 21.8 16.9 25.3
203 18.2 13.9 20.9

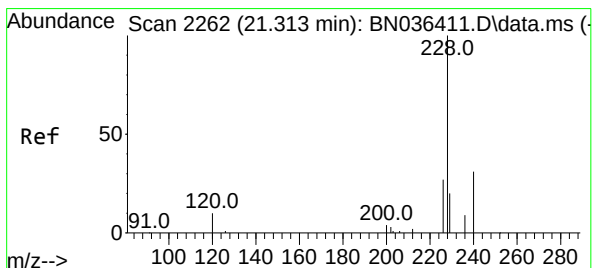
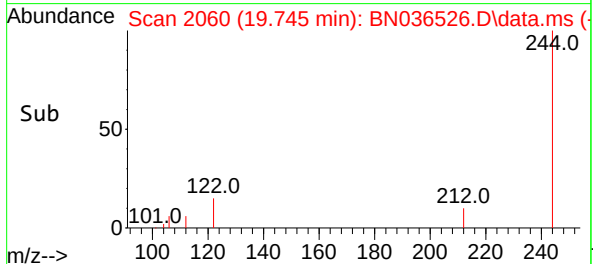
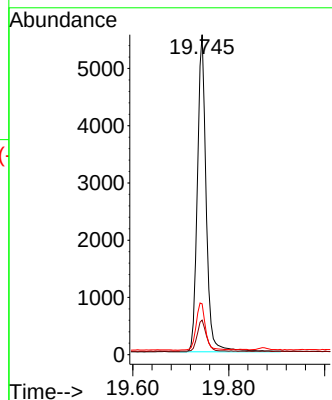
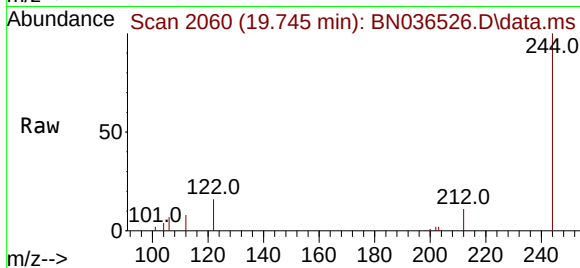




#31
Terphenyl-d14
Concen: 0.545 ng
RT: 19.745 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

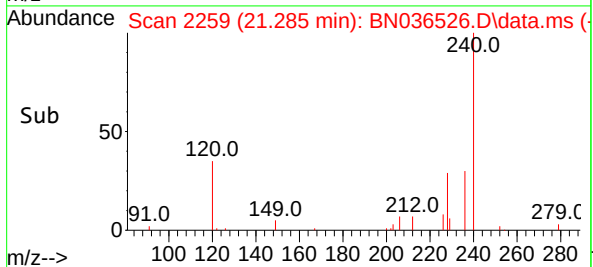
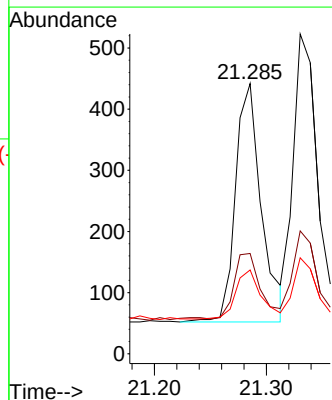
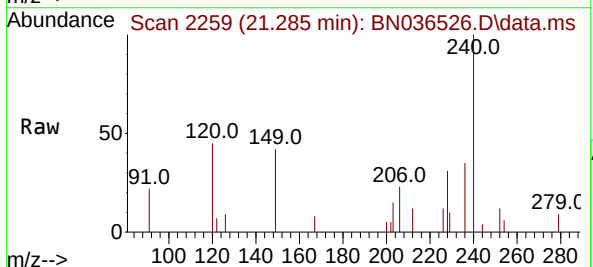
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250228

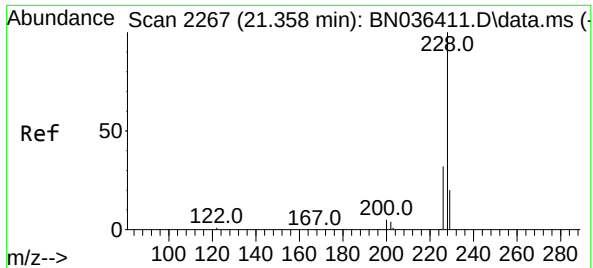
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.8	8.1	12.1
122	15.9	12.8	19.2



#32
Benzo(a)anthracene
Concen: 0.031 ng
RT: 21.285 min Scan# 2259
Delta R.T. 0.009 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

Tgt Ion	Ratio	Lower	Upper
228	100		
226	37.1	22.2	33.2#
229	31.0	16.5	24.7#





#33

Chrysene

Concen: 0.035 ng

RT: 21.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036526.D

Acq: 05 Mar 2025 16:18

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20250228

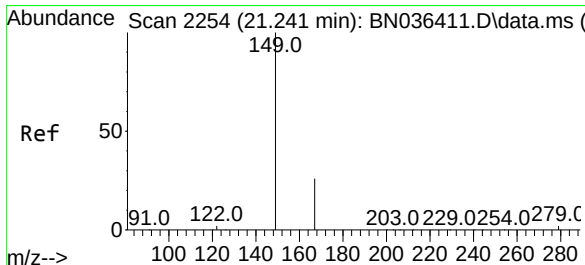
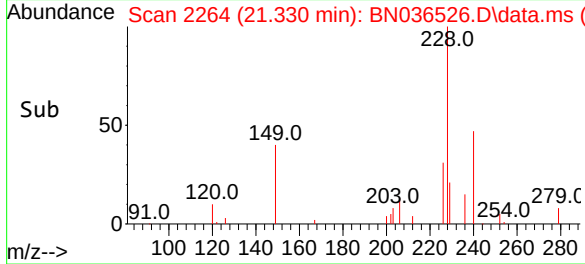
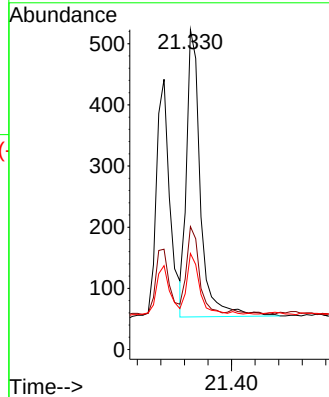
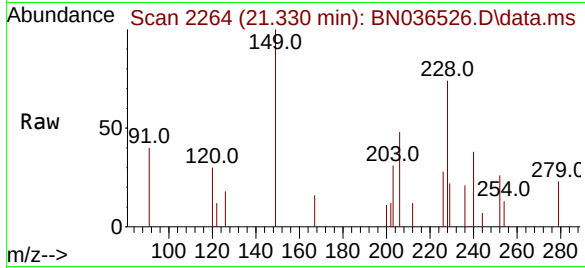
Tgt Ion:228 Resp: 768

Ion Ratio Lower Upper

228 100

226 38.4 25.5 38.3#

229 30.0 16.4 24.6#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.186 ng

RT: 21.214 min Scan# 2251

Delta R.T. -0.000 min

Lab File: BN036526.D

Acq: 05 Mar 2025 16:18

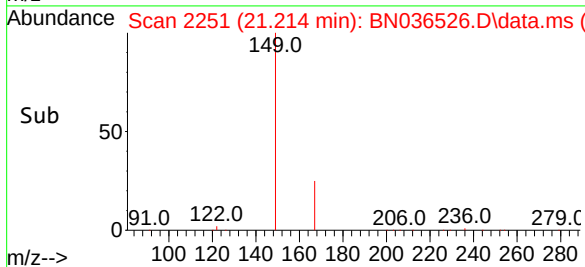
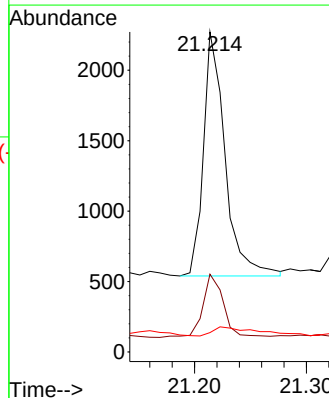
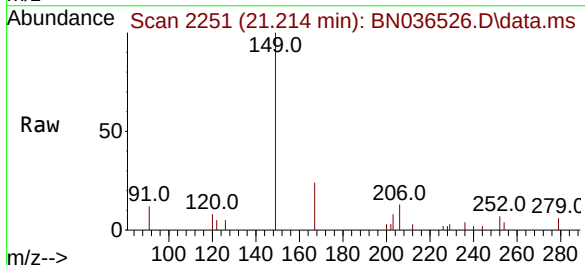
Tgt Ion:149 Resp: 2328

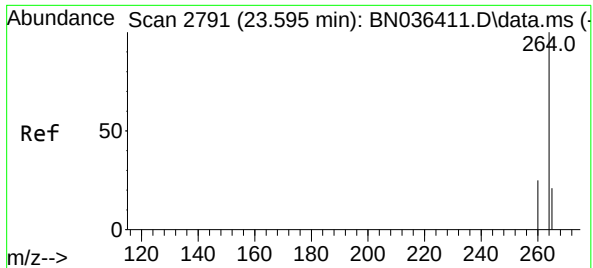
Ion Ratio Lower Upper

149 100

167 24.7 21.2 31.8

279 7.0 2.7 4.1#

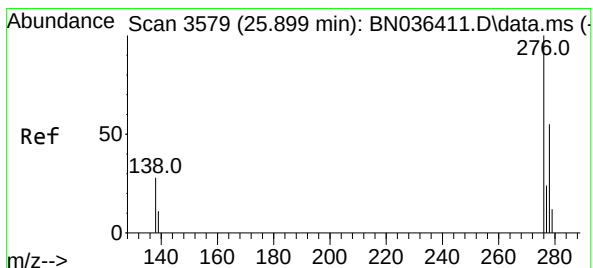
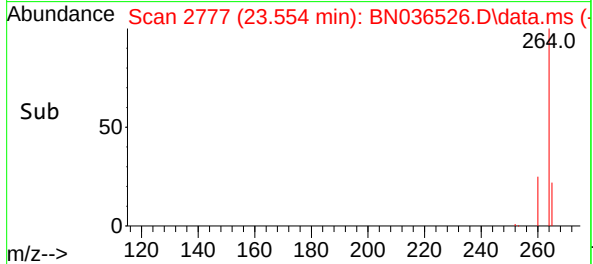
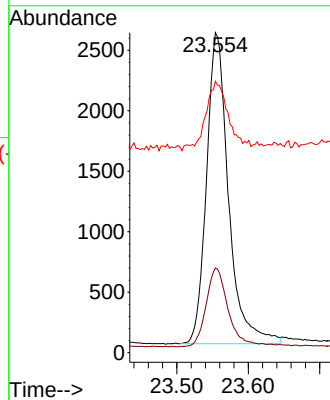
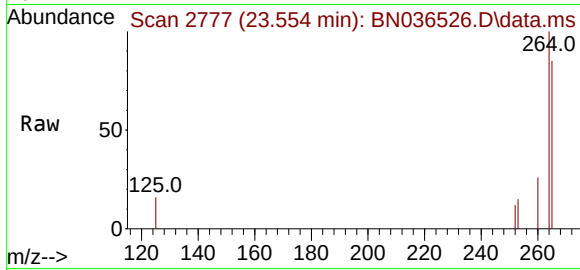




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

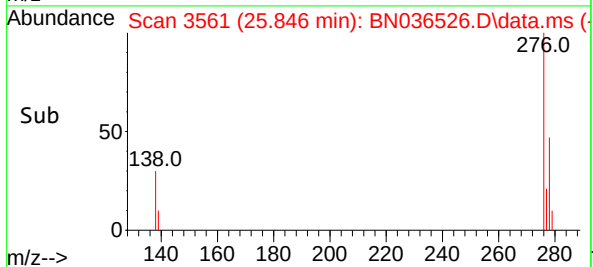
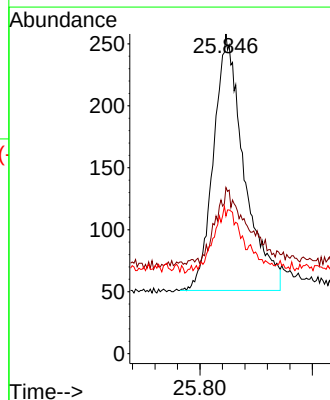
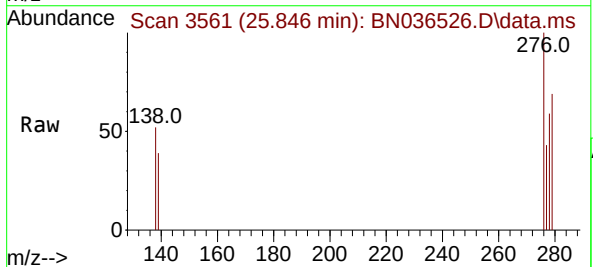
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250228

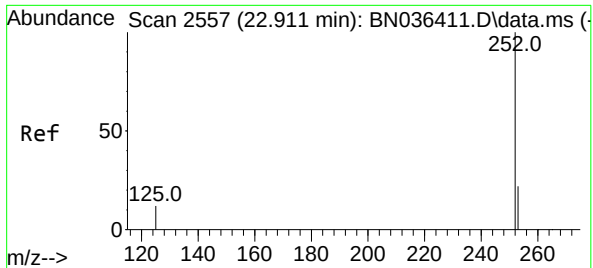
Tgt Ion:264 Resp: 5519
Ion Ratio Lower Upper
264 100
260 26.5 20.9 31.3
265 84.8 60.7 91.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.041 ng
RT: 25.846 min Scan# 3561
Delta R.T. 0.008 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

Tgt Ion:276 Resp: 782
Ion Ratio Lower Upper
276 100
138 29.5 22.2 33.2
277 9.1 19.8 29.6#

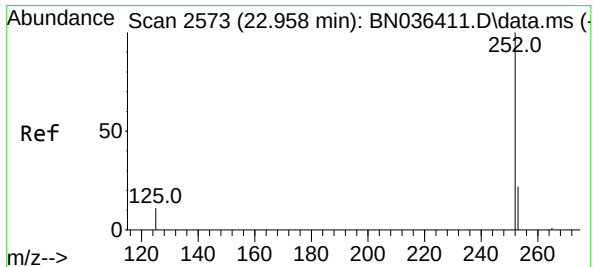
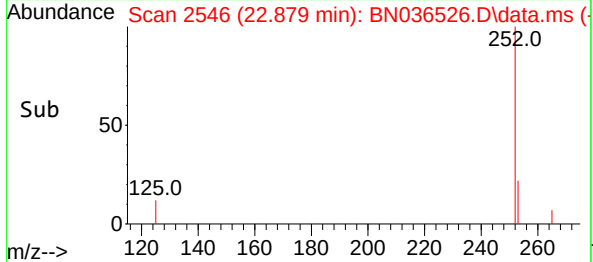
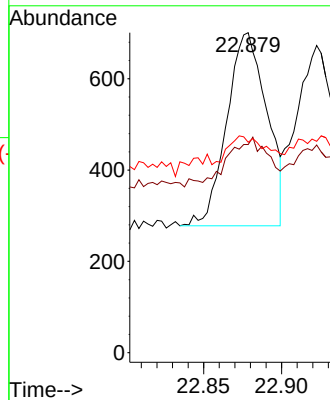
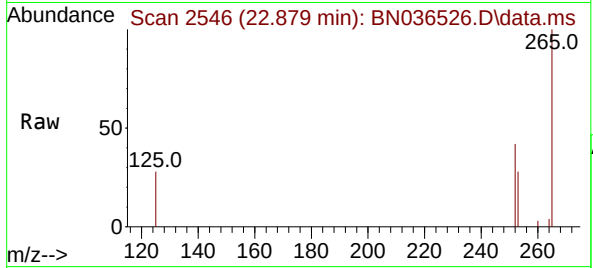




#37
Benzo(b)fluoranthene
Concen: 0.042 ng
RT: 22.879 min Scan# 2546
Delta R.T. 0.005 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

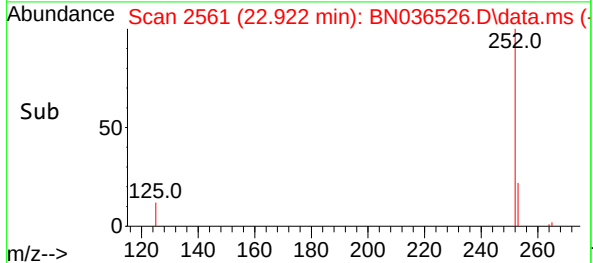
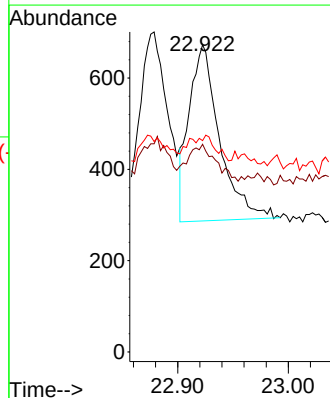
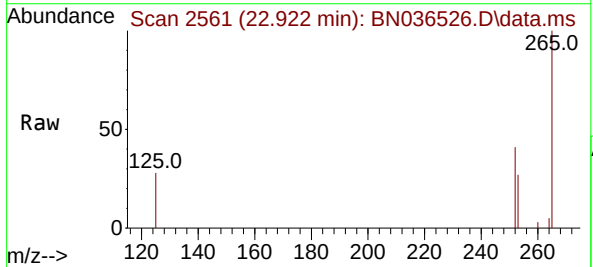
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250228

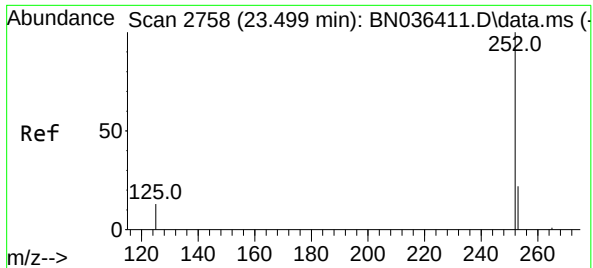
Tgt Ion:252 Resp: 759
Ion Ratio Lower Upper
252 100
253 65.0 21.9 32.9#
125 65.8 15.0 22.6#



#38
Benzo(k)fluoranthene
Concen: 0.039 ng
RT: 22.922 min Scan# 2561
Delta R.T. 0.005 min
Lab File: BN036526.D
Acq: 05 Mar 2025 16:18

Tgt Ion:252 Resp: 737
Ion Ratio Lower Upper
252 100
253 67.6 22.2 33.4#
125 68.8 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 0.029 ng

RT: 23.455 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036526.D

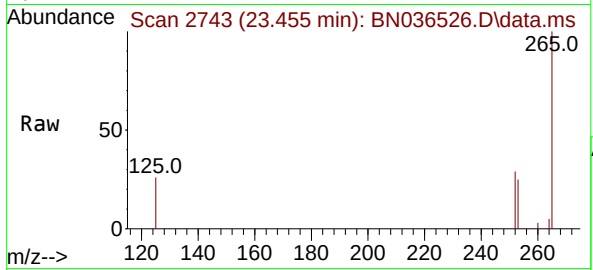
Acq: 05 Mar 2025 16:18

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20250228



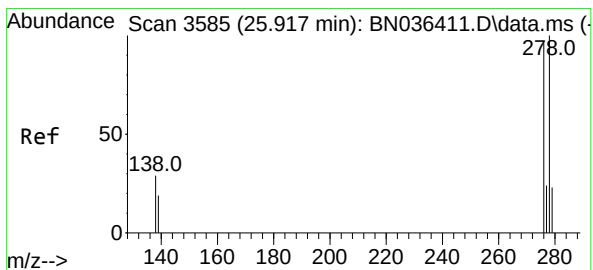
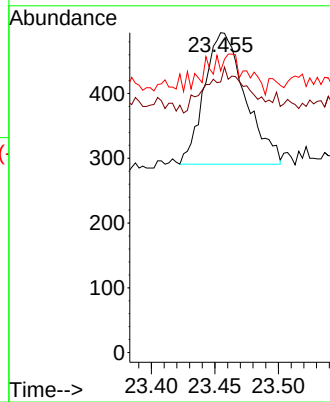
Tgt Ion:252 Resp: 459

Ion Ratio Lower Upper

252 100

253 84.6 24.4 36.6#

125 88.1 18.2 27.2#



#40

Dibenzo(a,h)anthracene

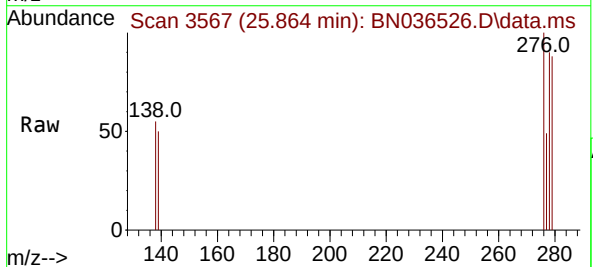
Concen: 0.039 ng

RT: 25.864 min Scan# 3567

Delta R.T. 0.011 min

Lab File: BN036526.D

Acq: 05 Mar 2025 16:18



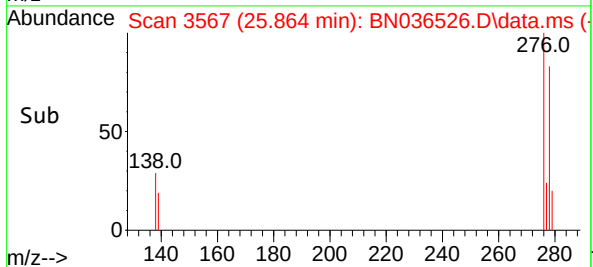
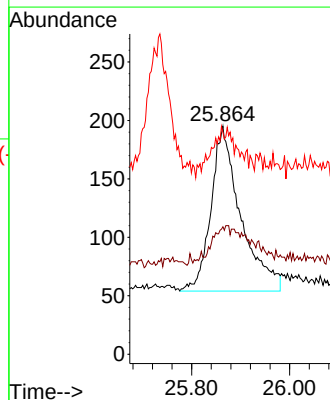
Tgt Ion:278 Resp: 594

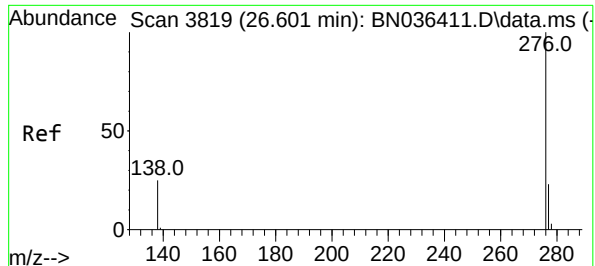
Ion Ratio Lower Upper

278 100

139 55.9 18.5 27.7#

279 97.4 24.8 37.2#





#41

Benzo(g,h,i)perylene

Concen: 0.042 ng

RT: 26.536 min Scan# 31

Delta R.T. 0.008 min

Lab File: BN036526.D

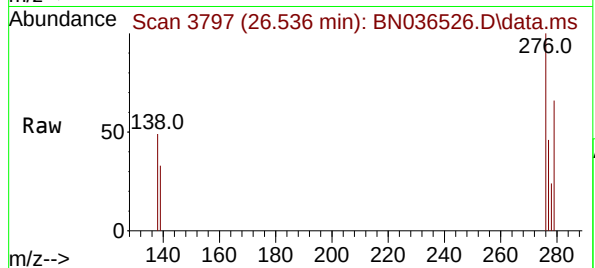
Acq: 05 Mar 2025 16:18

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20250228



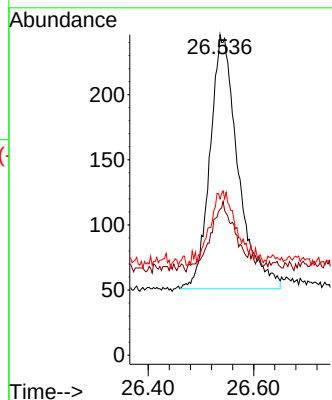
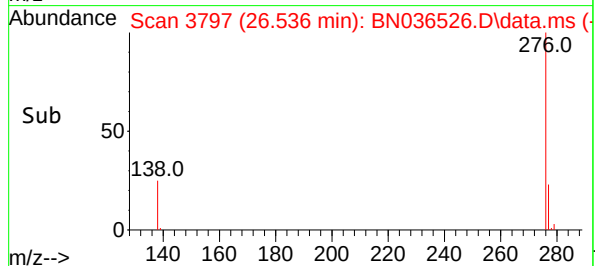
Tgt Ion:276 Resp: 718

Ion Ratio Lower Upper

276 100

277 45.5 20.7 31.1#

138 48.8 21.8 32.6#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/28/25
Project:	CTO WE13	Date Received:	03/03/25
Client Sample ID:	RW7-SP201-20250228	SDG No.:	Q1477
Lab Sample ID:	Q1477-02	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
BN036527.D	1	03/05/25 09:15	03/05/25 16:54	PB166992

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		118%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.50	*	53 - 106		125%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1910	7.732				
1146-65-2	Naphthalene-d8	4450	10.519				
15067-26-2	Acenaphthene-d10	2800	14.366				
1517-22-2	Phenanthrene-d10	6070	17.111				
1719-03-5	Chrysene-d12	6270	21.295				
1520-96-3	Perylene-d12	5880	23.554				

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\BN030525\
 Data File : BN036527.D
 Acq On : 05 Mar 2025 16:54
 Operator : RC/JU
 Sample : Q1477-02
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP201-20250228

Quant Time: Mar 05 17:18:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

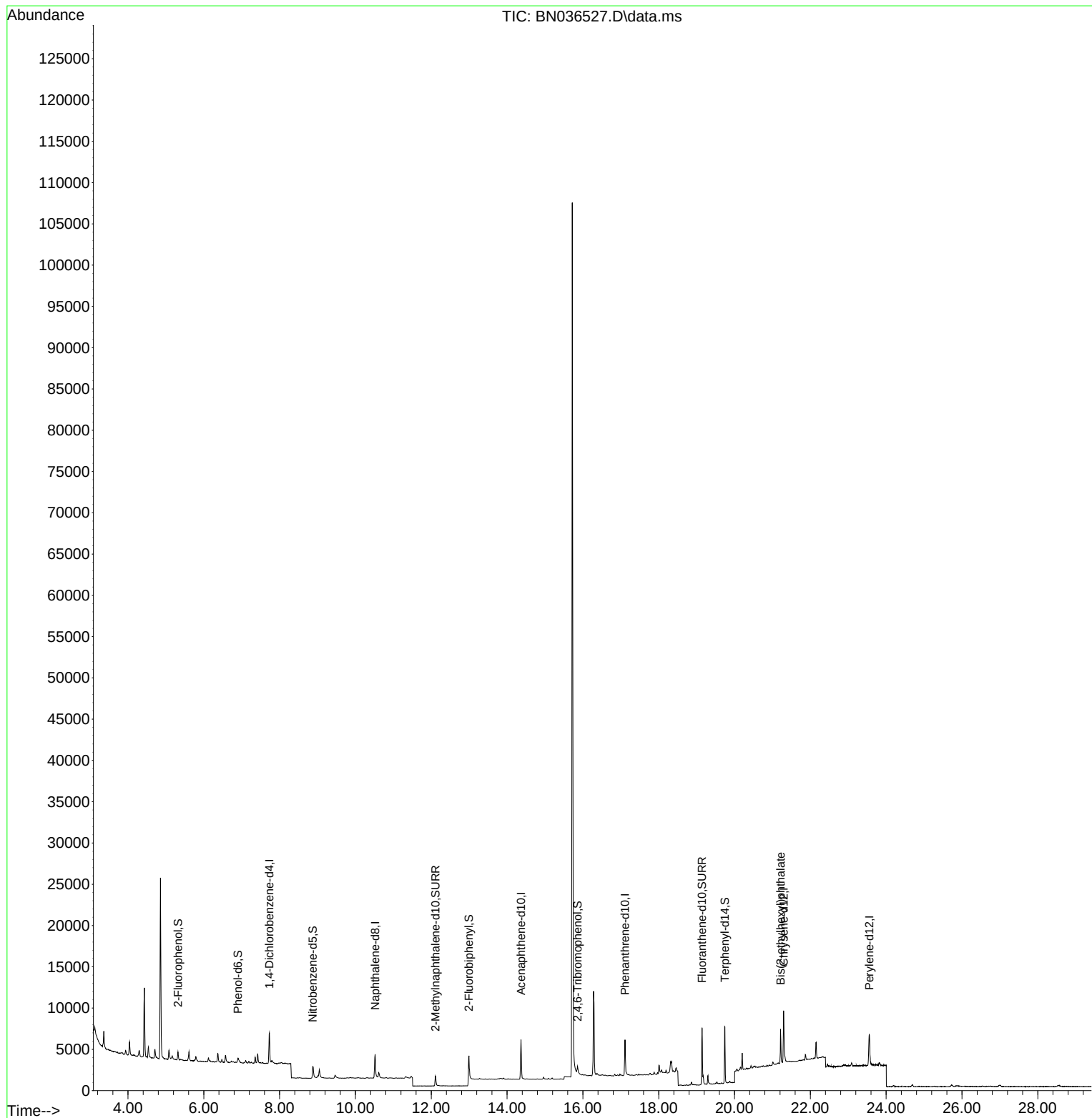
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	1905	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	4453	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2798	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6074	0.400	ng	0.00
29) Chrysene-d12	21.295	240	6274	0.400	ng	0.00
35) Perylene-d12	23.554	264	5876	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	702	0.156	ng	0.00
5) Phenol-d6	6.901	99	486	0.092	ng	0.00
8) Nitrobenzene-d5	8.875	82	1511	0.344	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	2095	0.306	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	521	0.376	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	5283	0.502	ng	0.00
27) Fluoranthene-d10	19.141	212	7958	0.471	ng	0.00
31) Terphenyl-d14	19.745	244	6711	0.501	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.214	149	3964	0.308	ng	Qvalue # 97

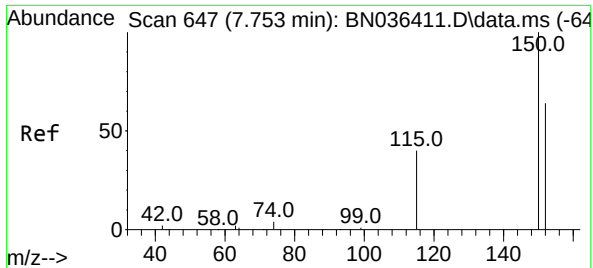
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036527.D
Acq On : 05 Mar 2025 16:54
Operator : RC/JU
Sample : Q1477-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250228

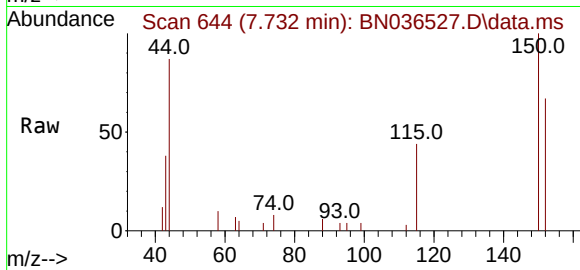
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration



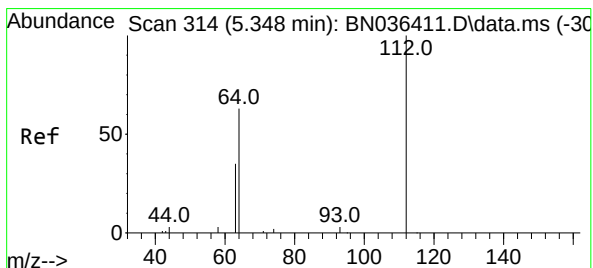
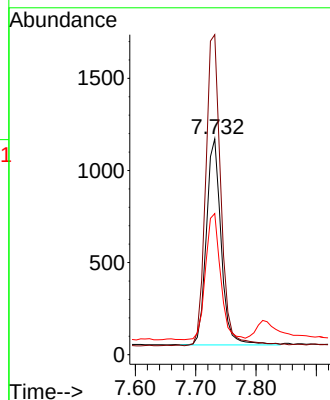
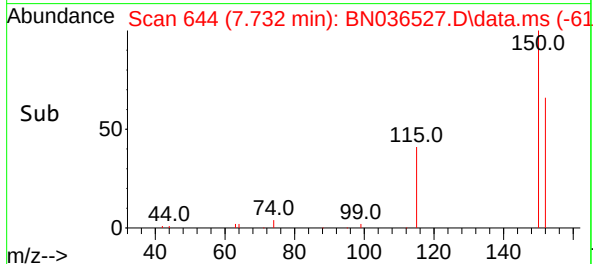


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.732 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN036527.D
Acq: 05 Mar 2025 16:54

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250228

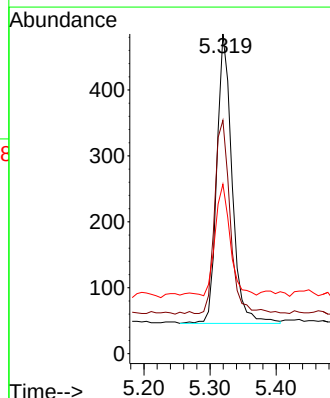
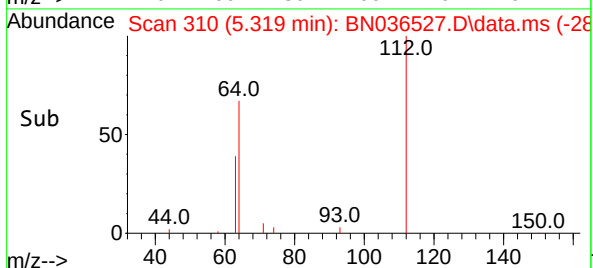
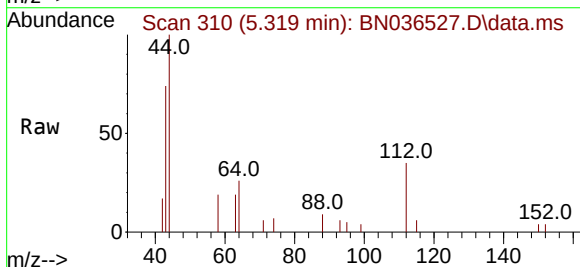


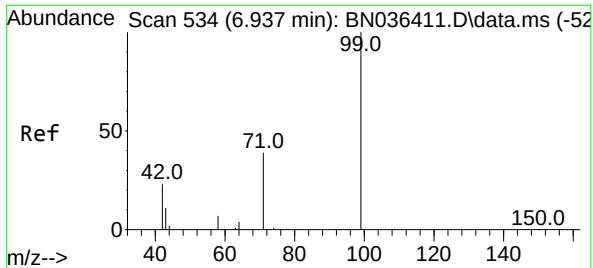
Tgt Ion:152 Resp: 1905
Ion Ratio Lower Upper
152 100
150 148.2 123.7 185.5
115 65.4 52.5 78.7



#4
2-Fluorophenol
Concen: 0.156 ng
RT: 5.319 min Scan# 310
Delta R.T. -0.000 min
Lab File: BN036527.D
Acq: 05 Mar 2025 16:54

Tgt Ion:112 Resp: 702
Ion Ratio Lower Upper
112 100
64 68.1 53.4 80.0
63 38.9 30.3 45.5

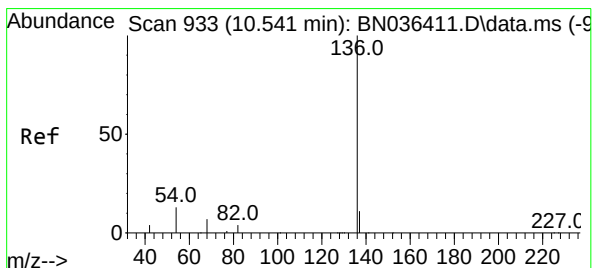
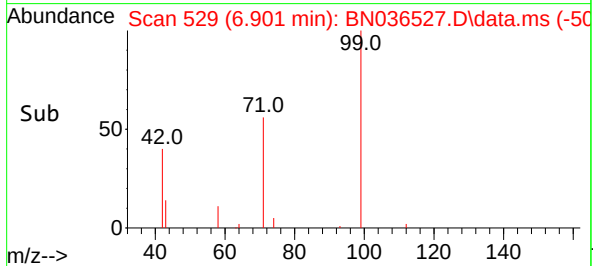
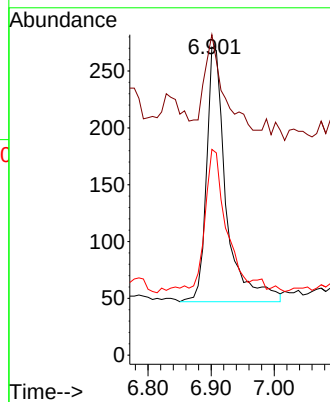
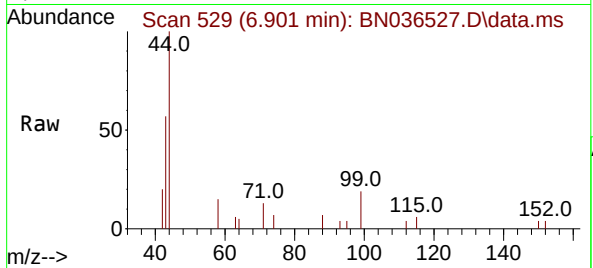




#5
Phenol-d6
Concen: 0.092 ng
RT: 6.901 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN036527.D
Acq: 05 Mar 2025 16:54

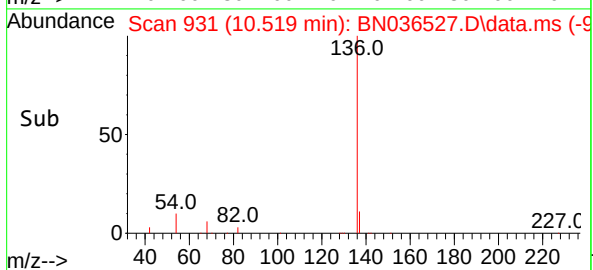
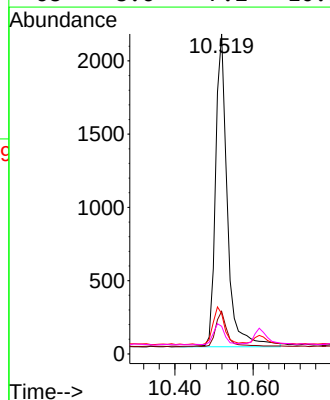
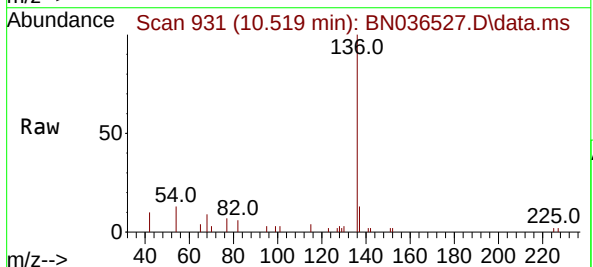
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250228

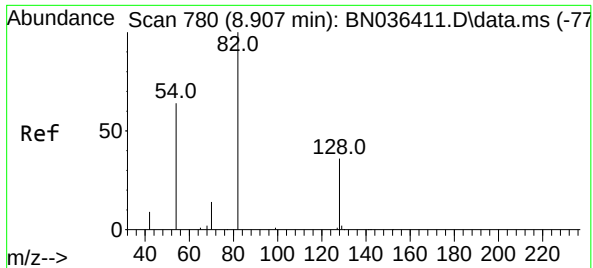
Tgt Ion: 99 Resp: 486
Ion Ratio Lower Upper
99 100
42 36.0 21.7 32.5#
71 62.1 32.6 49.0#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 931
Delta R.T. 0.011 min
Lab File: BN036527.D
Acq: 05 Mar 2025 16:54

Tgt Ion: 136 Resp: 4453
Ion Ratio Lower Upper
136 100
137 13.3 10.1 15.1
54 12.6 11.8 17.6
68 8.6 7.2 10.8

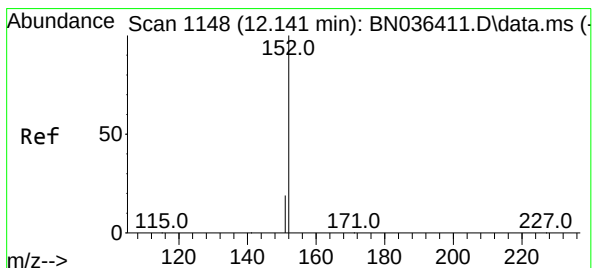
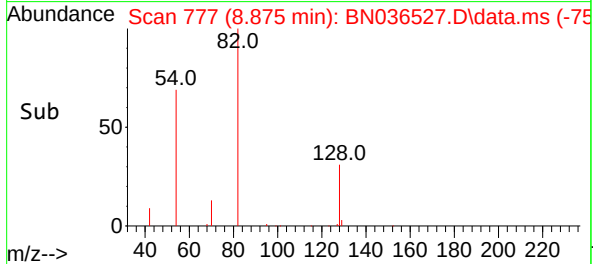
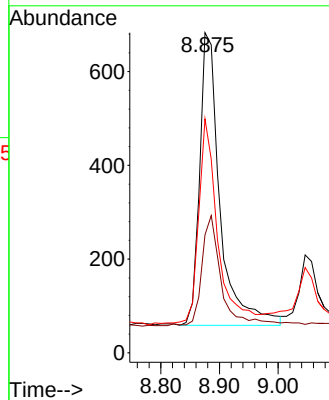
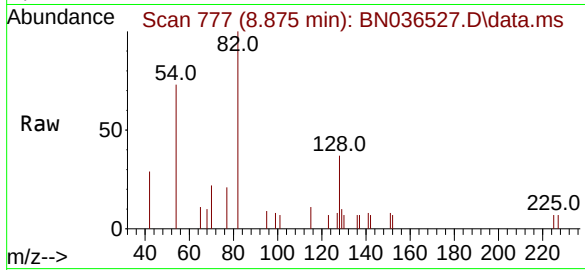




#8
Nitrobenzene-d5
Concen: 0.344 ng
RT: 8.875 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN036527.D
Acq: 05 Mar 2025 16:54

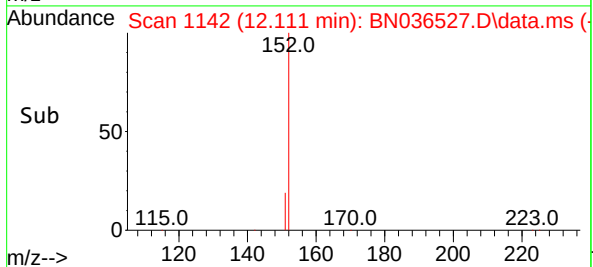
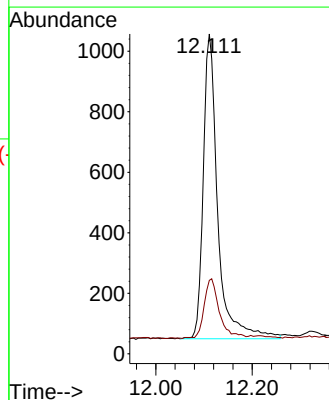
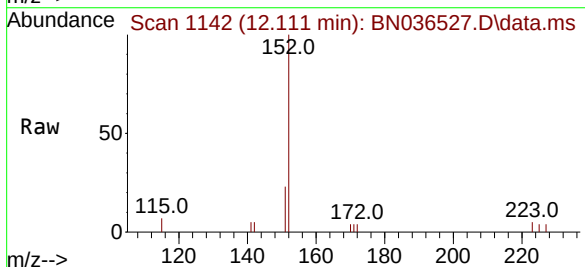
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250228

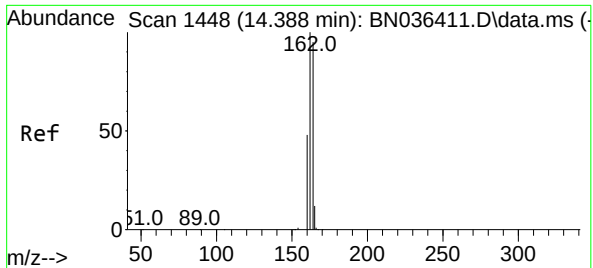
Tgt Ion: 82 Resp: 1511
Ion Ratio Lower Upper
82 100
128 36.9 31.9 47.9
54 73.1 53.1 79.7



#11
2-Methylnaphthalene-d10
Concen: 0.306 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.005 min
Lab File: BN036527.D
Acq: 05 Mar 2025 16:54

Tgt Ion: 152 Resp: 2095
Ion Ratio Lower Upper
152 100
151 19.6 16.6 25.0

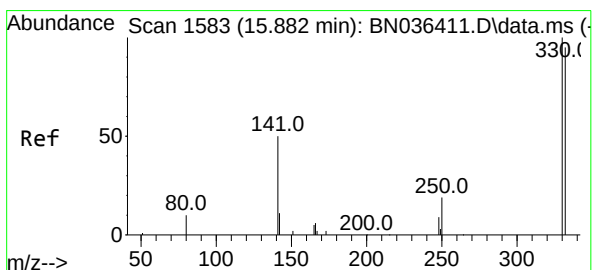
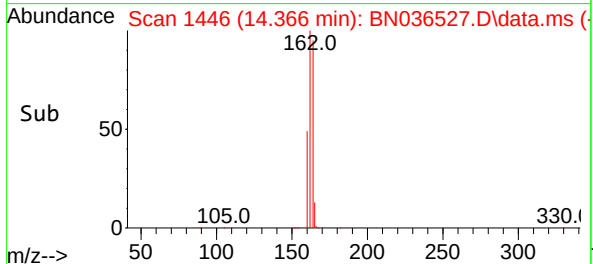
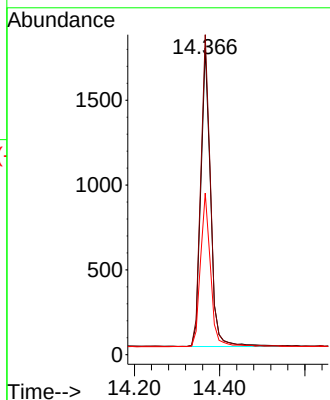
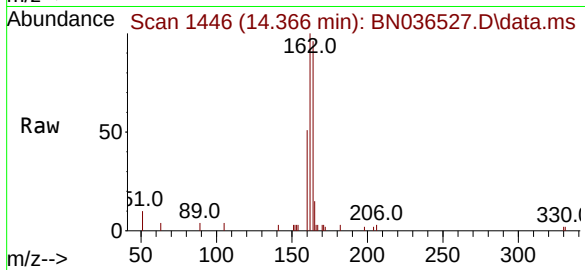




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036527.D
Acq: 05 Mar 2025 16:54

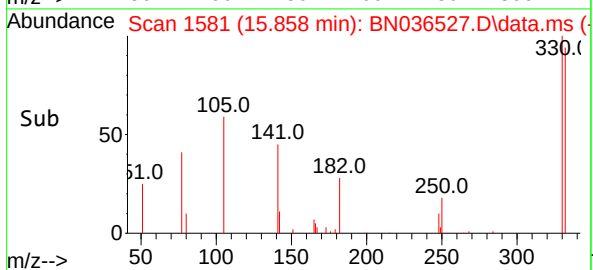
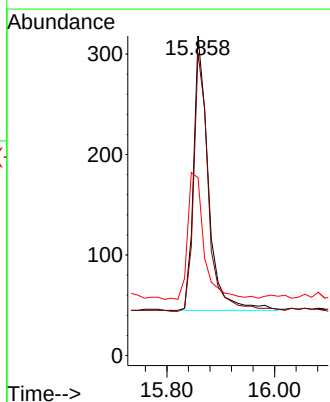
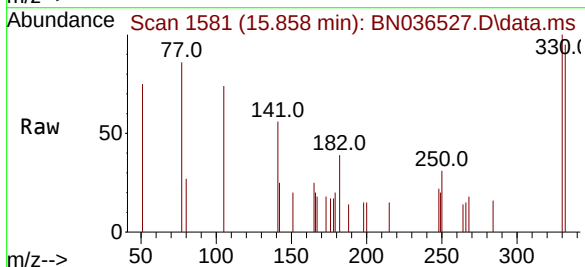
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ClientSampleId :
RW7-SP201-20250228

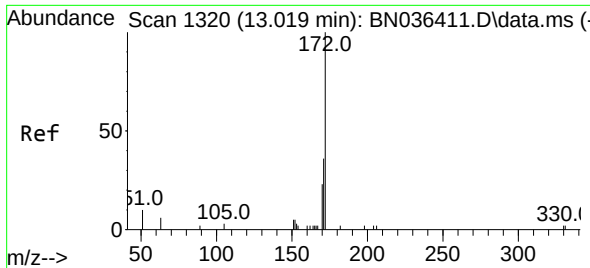
Tgt Ion:164 Resp: 2798
Ion Ratio Lower Upper
164 100
162 104.4 84.1 126.1
160 52.7 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.376 ng
RT: 15.858 min Scan# 1581
Delta R.T. -0.000 min
Lab File: BN036527.D
Acq: 05 Mar 2025 16:54

Tgt Ion:330 Resp: 521
Ion Ratio Lower Upper
330 100
332 94.8 76.6 114.8
141 51.2 37.8 56.8

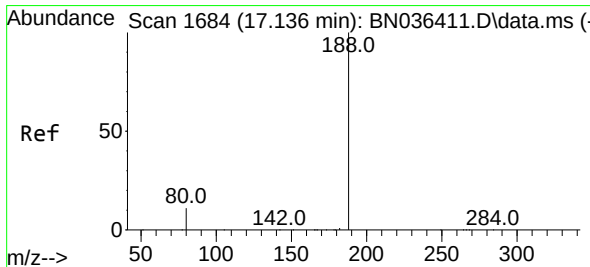
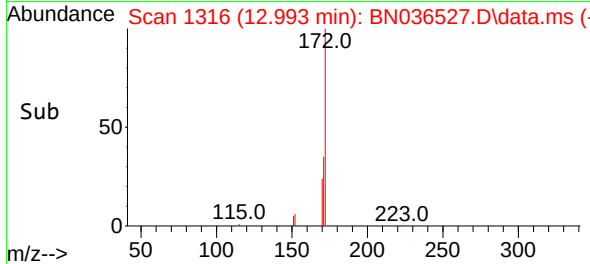
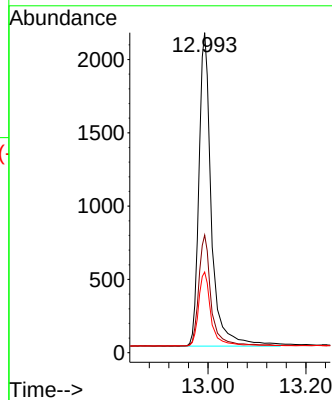
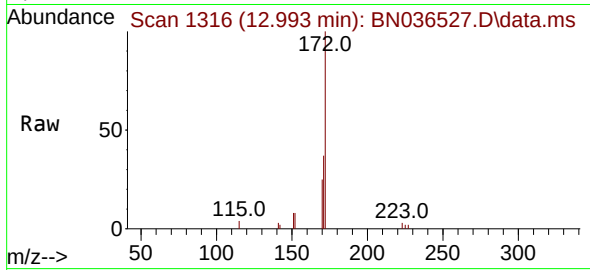




#15
2-Fluorobiphenyl
Concen: 0.502 ng
RT: 12.993 min Scan# 1316
Delta R.T. 0.005 min
Lab File: BN036527.D
Acq: 05 Mar 2025 16:54

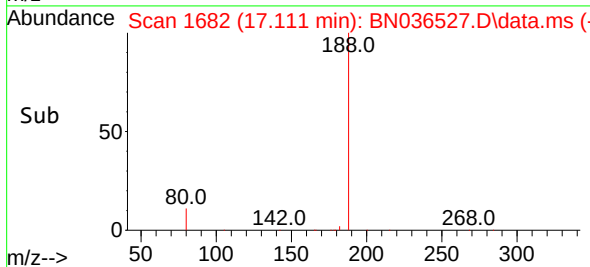
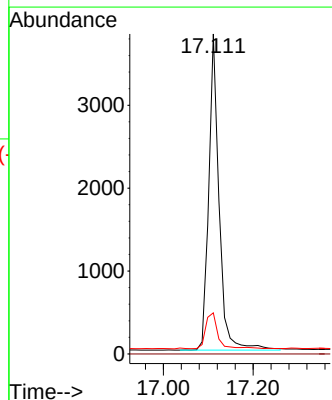
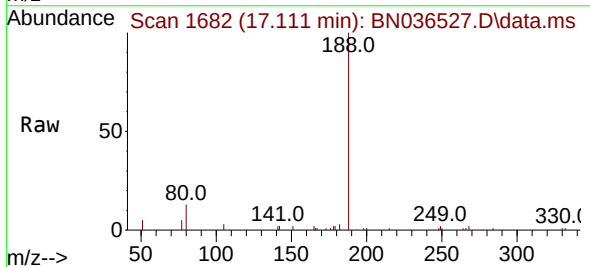
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250228

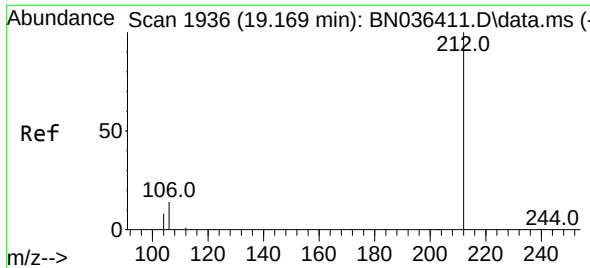
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.6	44.4
170	25.2	19.8	29.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. -0.000 min
Lab File: BN036527.D
Acq: 05 Mar 2025 16:54

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.8	9.8	14.6

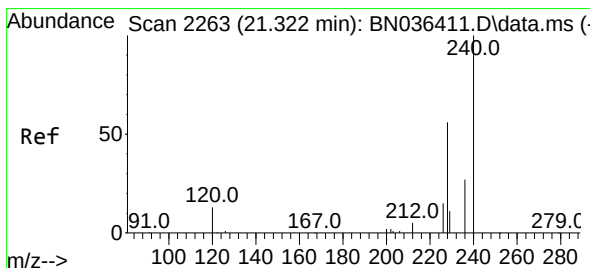
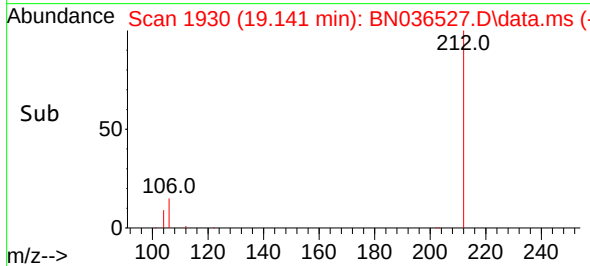
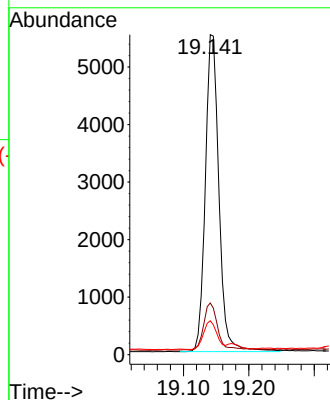
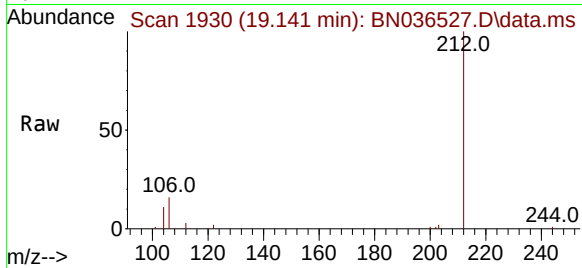




#27
Fluoranthene-d10
Concen: 0.471 ng
RT: 19.141 min Scan# 1936
Delta R.T. -0.000 min
Lab File: BN036527.D
Acq: 05 Mar 2025 16:54

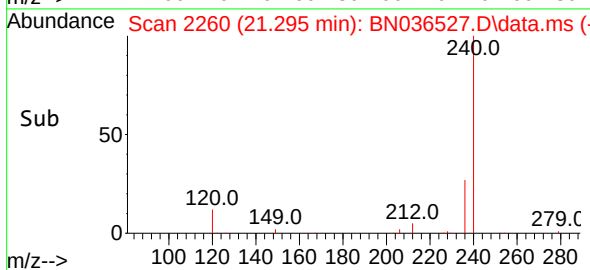
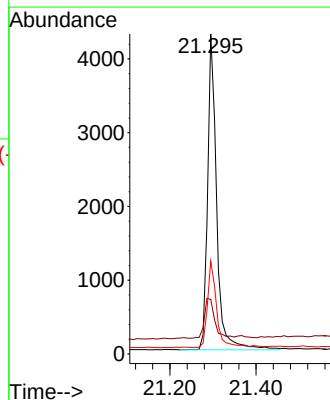
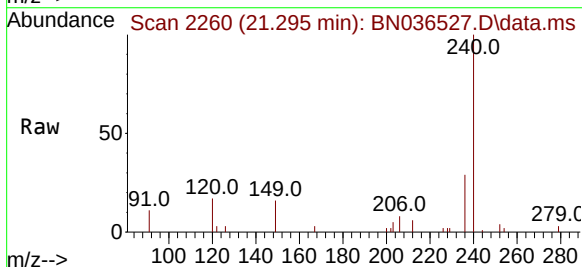
Instrument :
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ClientSampleId :
RW7-SP201-20250228

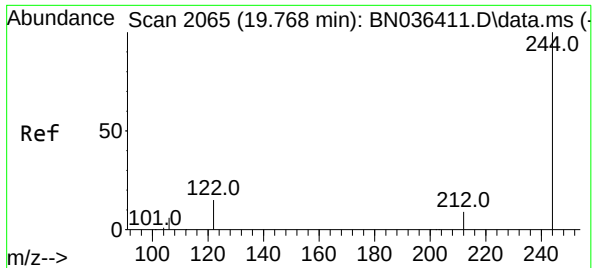
Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.5	11.5	17.3
104	9.0	7.1	10.7



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. -0.000 min
Lab File: BN036527.D
Acq: 05 Mar 2025 16:54

Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.1	13.3	19.9
236	29.0	23.0	34.6

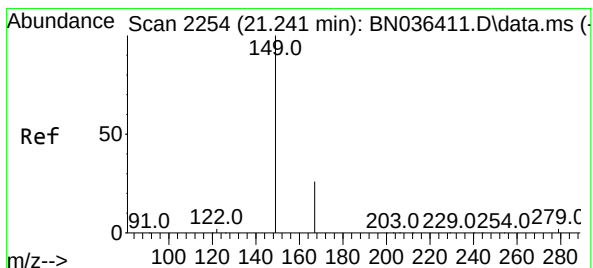
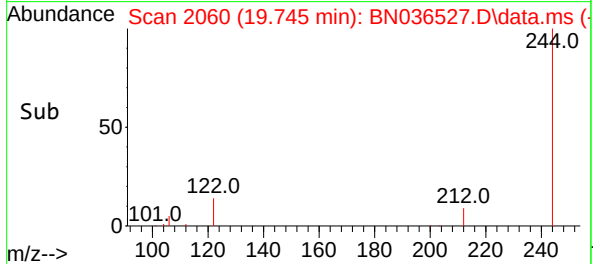
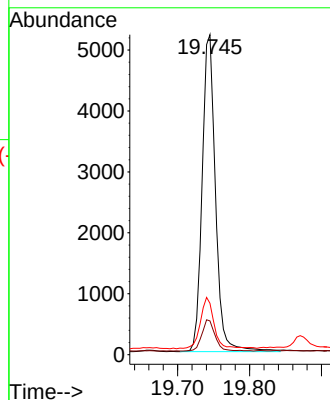
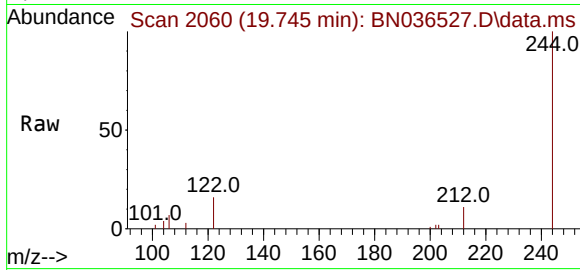




#31
Terphenyl-d14
Concen: 0.501 ng
RT: 19.745 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BN036527.D
Acq: 05 Mar 2025 16:54

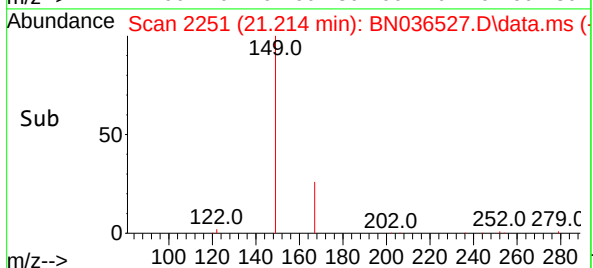
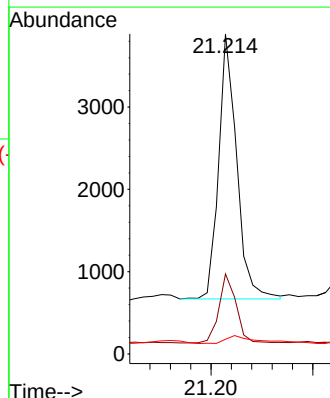
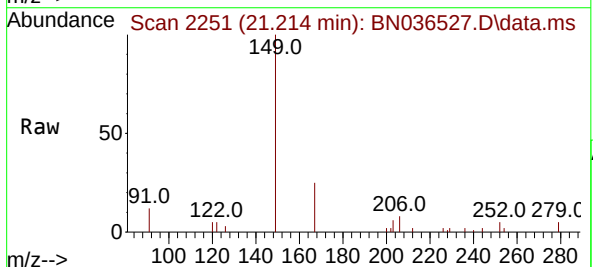
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250228

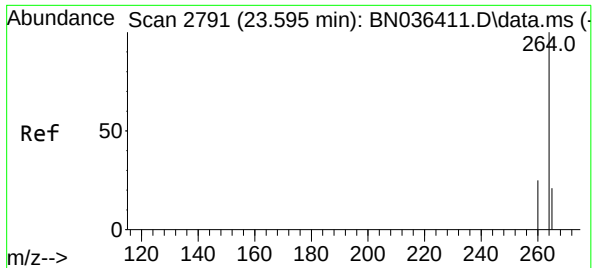
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	16.0	12.8	19.2



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.308 ng
RT: 21.214 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN036527.D
Acq: 05 Mar 2025 16:54

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.0	21.2	31.8
279	5.2	2.7	4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.554 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036527.D

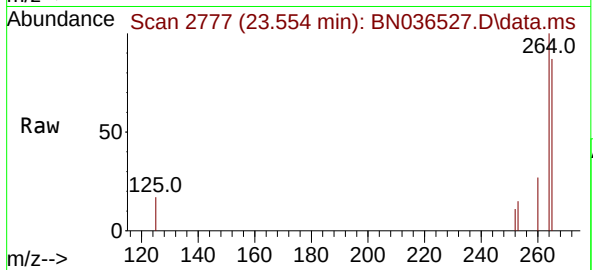
Acq: 05 Mar 2025 16:54

Instrument :

BNA_N

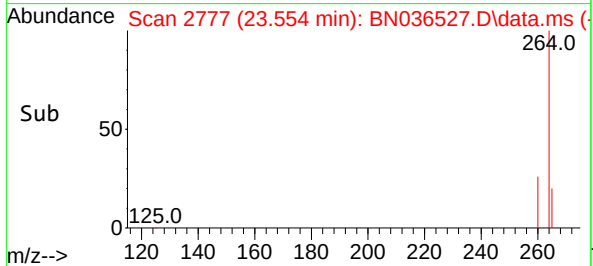
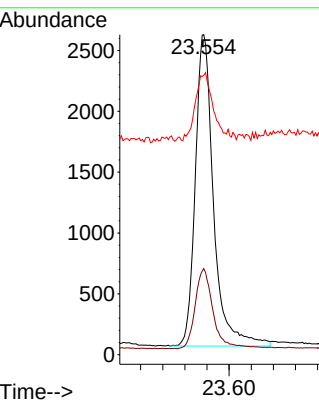
ClientSampleId :

RW7-SP201-20250228



Tgt Ion:264 Resp: 5876

Ion	Ratio	Lower	Upper
264	100		
260	26.9	20.9	31.3
265	87.3	60.7	91.1



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/28/25
Project:	CTO WE13	Date Received:	03/03/25
Client Sample ID:	RW7-SP302-20250228	SDG No.:	Q1477
Lab Sample ID:	Q1477-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036528.D	1	03/05/25 09:15	03/05/25 17:30	PB166992

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	0.51		30 - 150		127%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.56	*	53 - 106		139%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2900	7.732				
1146-65-2	Naphthalene-d8	6910	10.52				
15067-26-2	Acenaphthene-d10	4230	14.366				
1517-22-2	Phenanthrene-d10	8980	17.111				
1719-03-5	Chrysene-d12	9610	21.295				
1520-96-3	Perylene-d12	8800	23.554				

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\BN030525\
 Data File : BN036528.D
 Acq On : 05 Mar 2025 17:30
 Operator : RC/JU
 Sample : Q1477-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP302-20250228

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 06 00:02:07 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	2903	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	6906	0.400	ng	# 0.01
13) Acenaphthene-d10	14.366	164	4230	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	8982	0.400	ng	0.00
29) Chrysene-d12	21.295	240	9606	0.400	ng	0.00
35) Perylene-d12	23.554	264	8798	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	1187	0.173	ng	0.00
5) Phenol-d6	6.901	99	825	0.102	ng	0.00
8) Nitrobenzene-d5	8.875	82	2609	0.383	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3527	0.332	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	862	0.411	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	8843	0.556	ng	0.00
27) Fluoranthene-d10	19.141	212	12661	0.507	ng	0.00
31) Terphenyl-d14	19.745	244	9769	0.476	ng	0.00
Target Compounds						Qvalue
25) Phenanthrene	17.149	178	1394	0.054	ng	97
28) Fluoranthene	19.174	202	7659	0.240	ng	# 94
30) Pyrene	19.536	202	5566	0.150	ng	99
32) Benzo(a)anthracene	21.277	228	2403	0.076	ng	93
33) Chrysene	21.331	228	2403	0.070	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	2236	0.114	ng	# 93
36) Indeno(1,2,3-cd)pyrene	25.847	276	1377	0.045	ng	# 86
37) Benzo(b)fluoranthene	22.876	252	2840	0.098	ng	# 72
38) Benzo(k)fluoranthene	22.920	252	2386m	0.080	ng	
39) Benzo(a)pyrene	23.455	252	1362	0.054	ng	# 37
40) Dibenzo(a,h)anthracene	25.867	278	682m	0.028	ng	
41) Benzo(g,h,i)perylene	26.539	276	750	0.027	ng	# 60

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

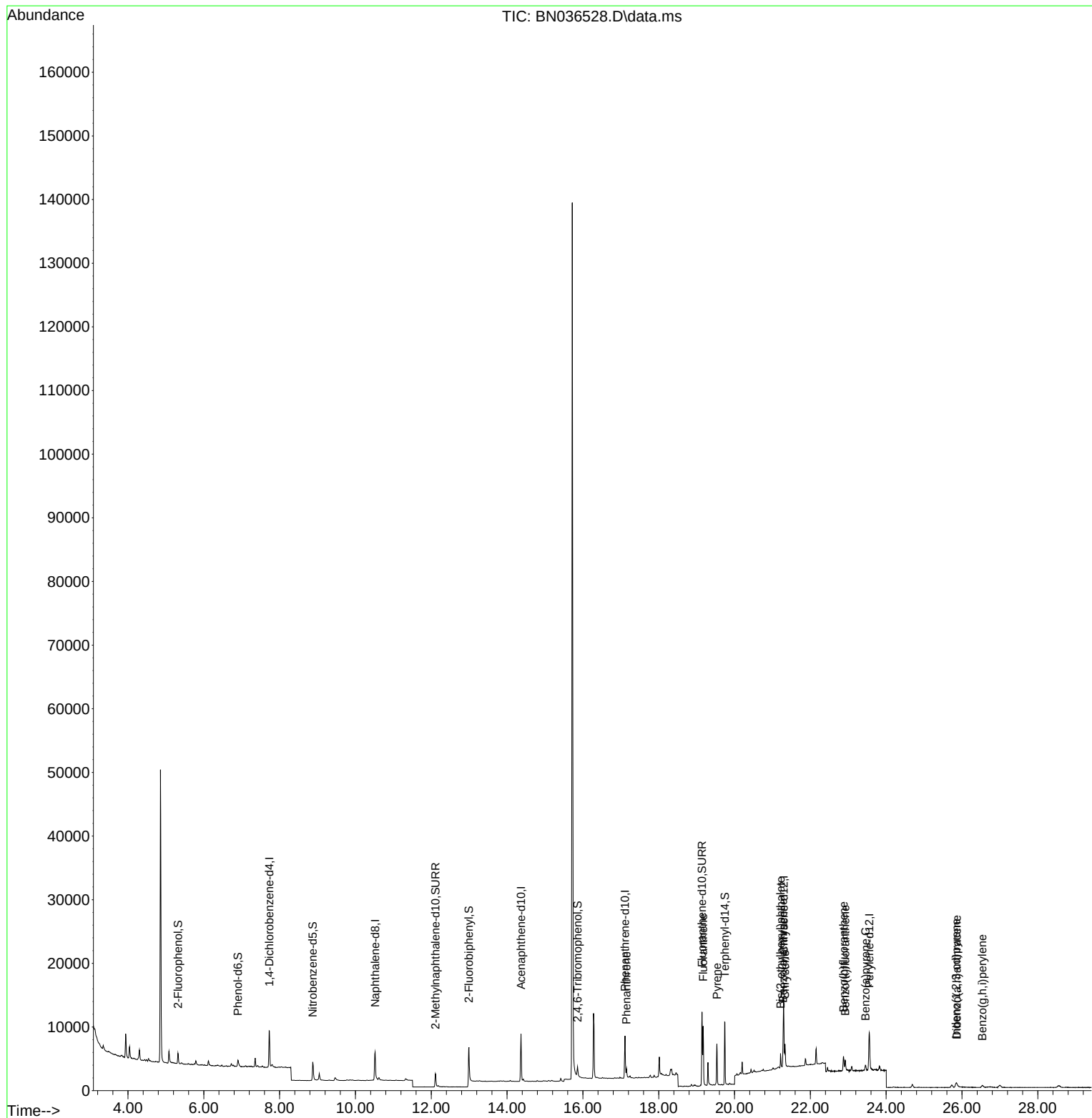
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Data File : BN036528.D
Acq On : 05 Mar 2025 17:30
Operator : RC/JU
Sample : Q1477-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

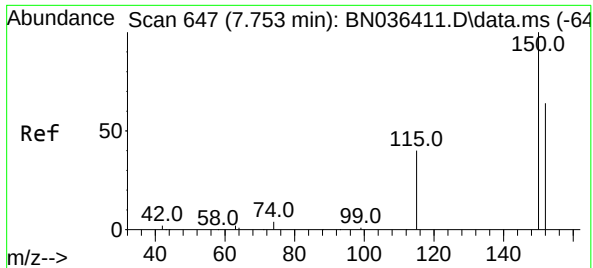
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

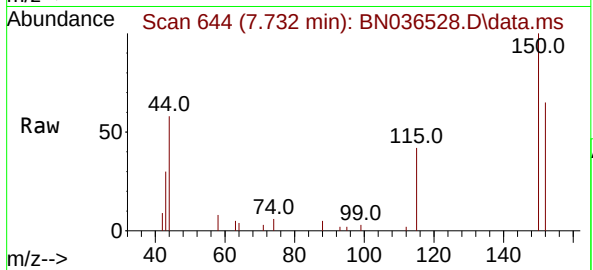
Quant Time: Mar 06 00:02:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.732 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

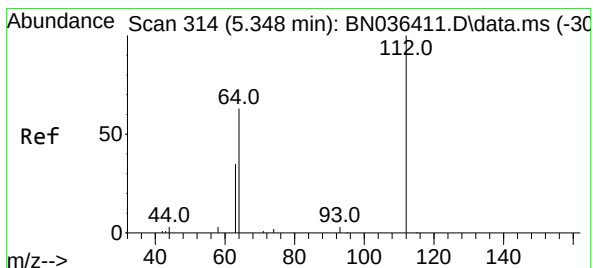
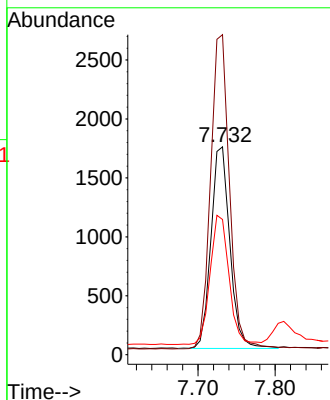
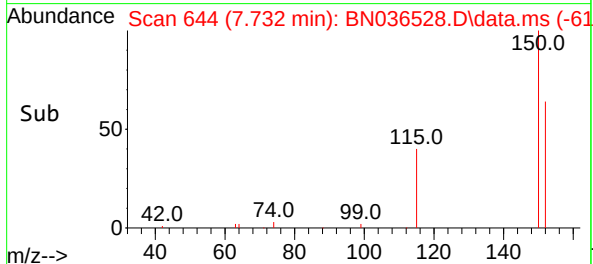
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228



Tgt Ion:152 Resp: 290
Ion Ratio Lower Upper
152 100
150 154.0 123.7 185.5
115 65.1 52.5 78.7

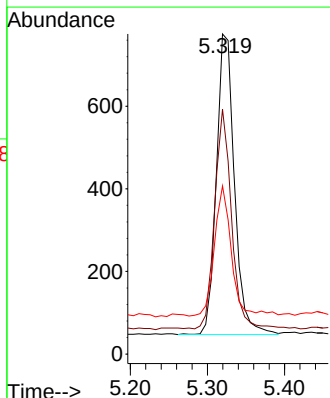
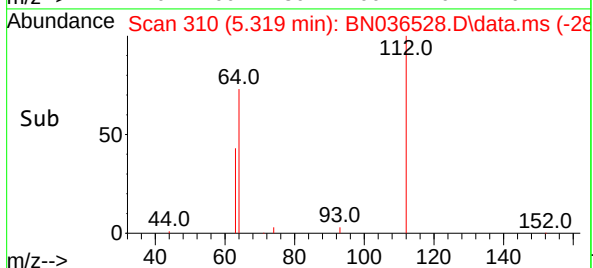
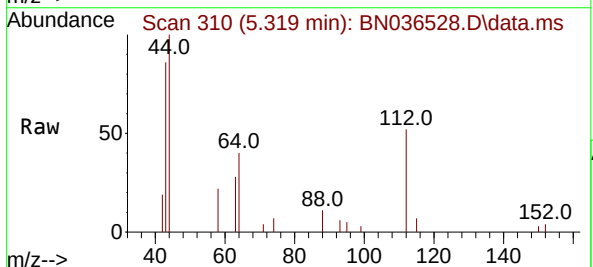
Manual Integrations
APPROVED

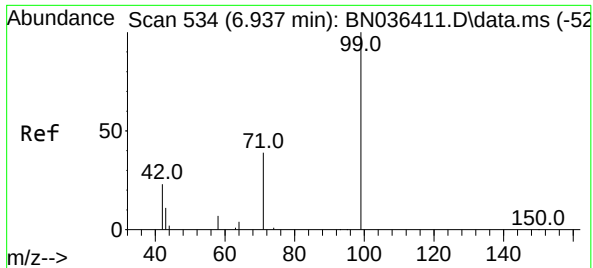
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#4
2-Fluorophenol
Concen: 0.173 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

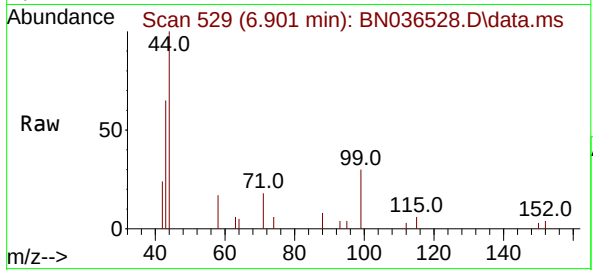
Tgt Ion:112 Resp: 1187
Ion Ratio Lower Upper
112 100
64 68.3 53.4 80.0
63 39.4 30.3 45.5





#5
Phenol-d6
Concen: 0.102 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

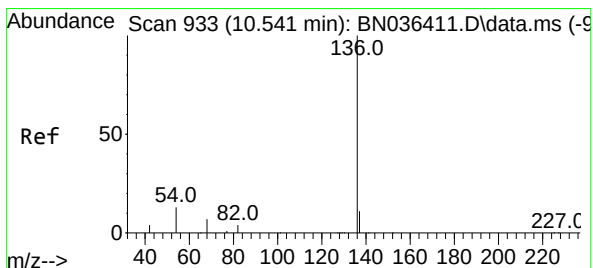
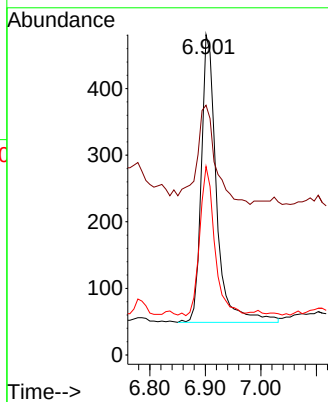
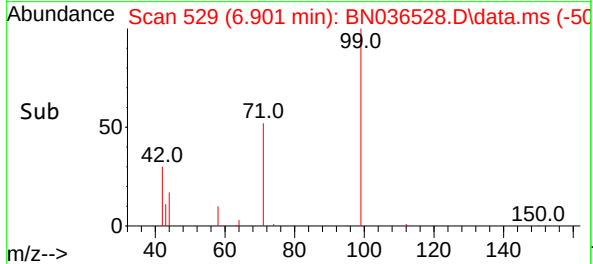
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228



Tgt Ion: 99 Resp: 82
Ion Ratio Lower Upper
99 100
42 42.9 21.7 32.5
71 50.5 32.6 49.0

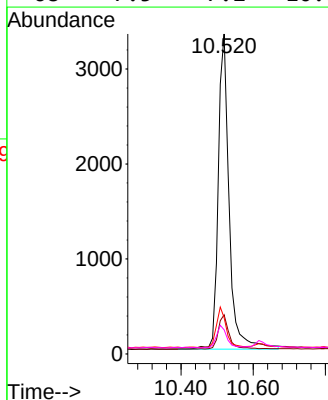
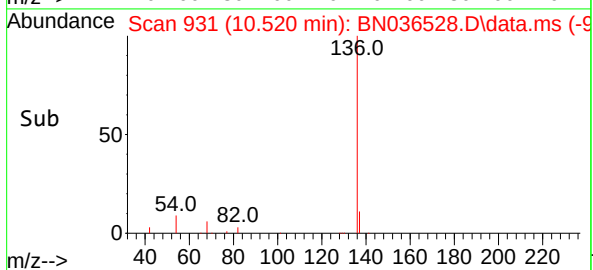
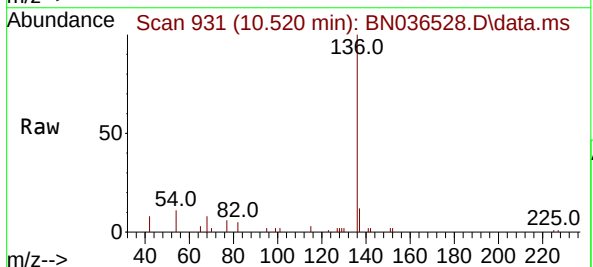
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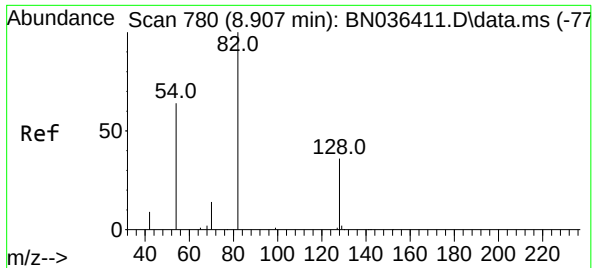
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 931
Delta R.T. 0.011 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

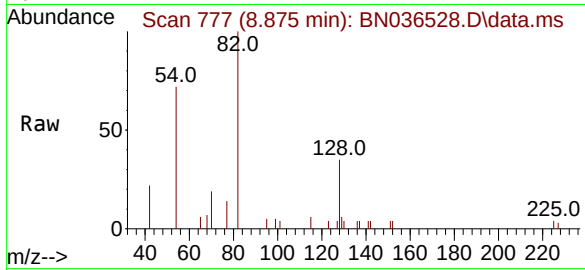
Tgt Ion:136 Resp: 6906
Ion Ratio Lower Upper
136 100
137 12.2 10.1 15.1
54 11.4 11.8 17.6#
68 7.5 7.2 10.8





#8
Nitrobenzene-d5
Concen: 0.383 ng
RT: 8.875 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

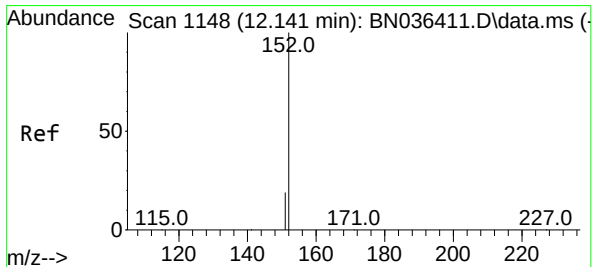
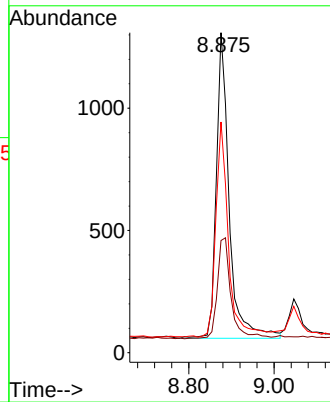
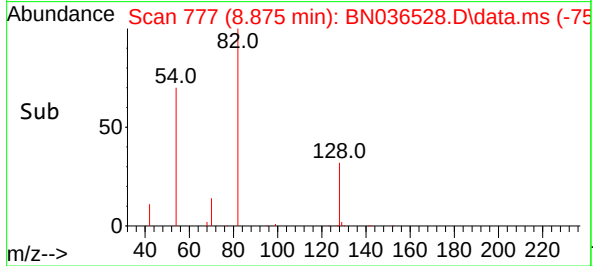
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228



Tgt Ion: 82 Resp: 2609
Ion Ratio Lower Upper
82 100
128 35.1 31.9 47.9
54 72.1 53.1 79.7

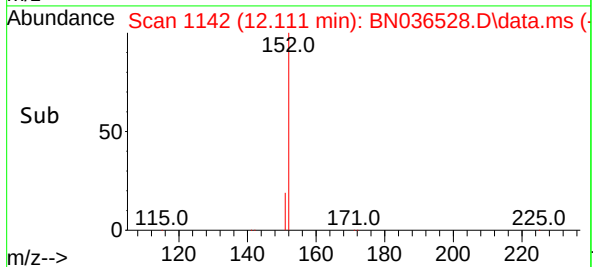
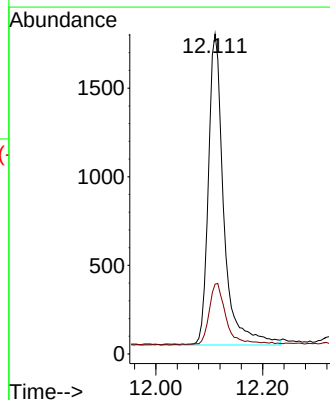
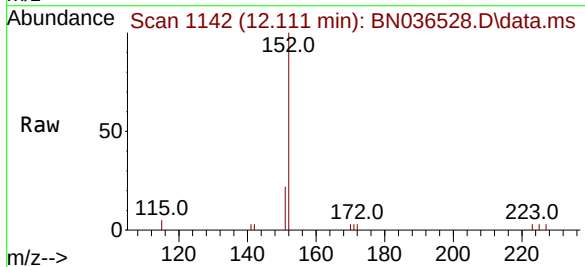
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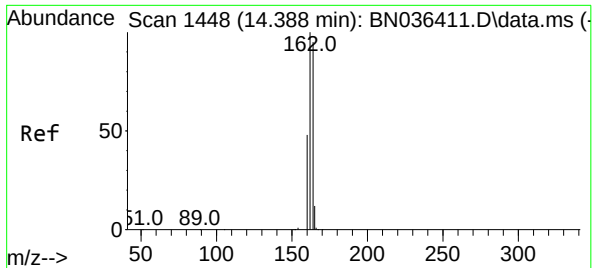
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#11
2-Methylnaphthalene-d10
Concen: 0.332 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.005 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

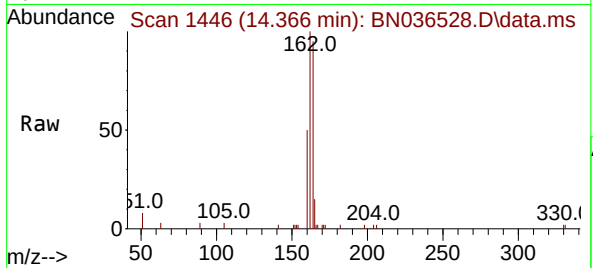
Tgt Ion:152 Resp: 3527
Ion Ratio Lower Upper
152 100
151 21.2 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

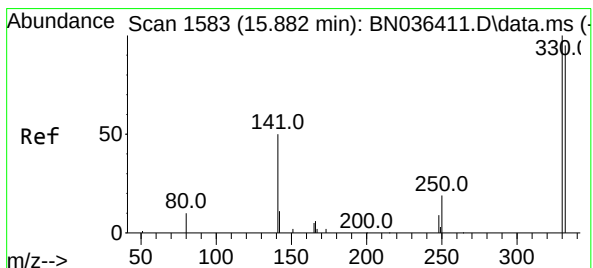
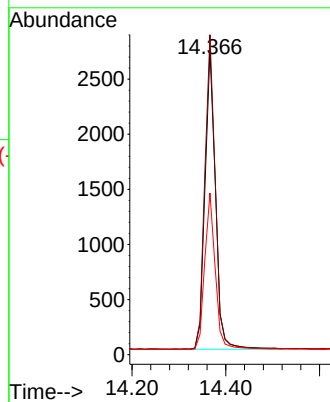
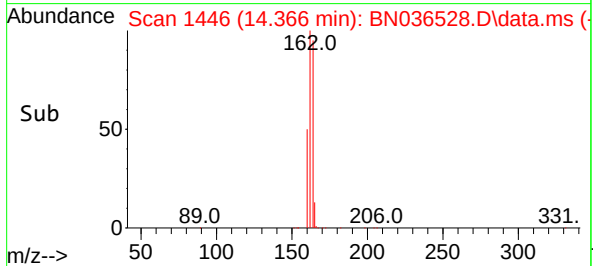
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228



Tgt Ion:164 Resp: 4230
Ion Ratio Lower Upper
164 100
162 105.1 84.1 126.1
160 53.1 41.4 62.0

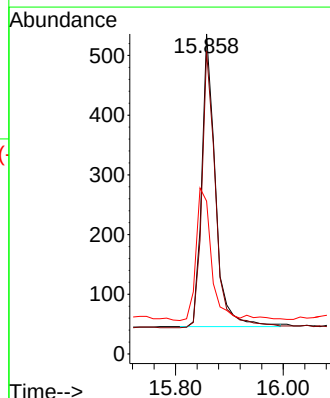
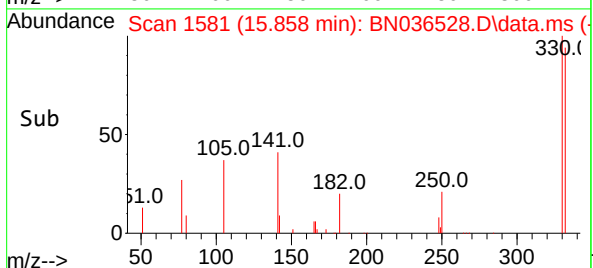
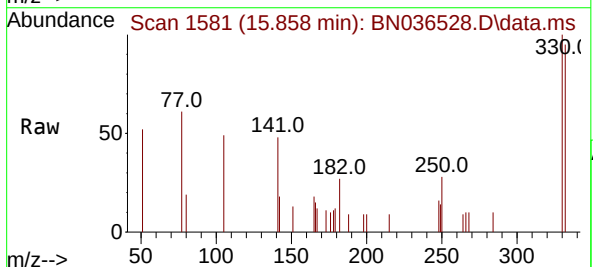
Manual Integrations
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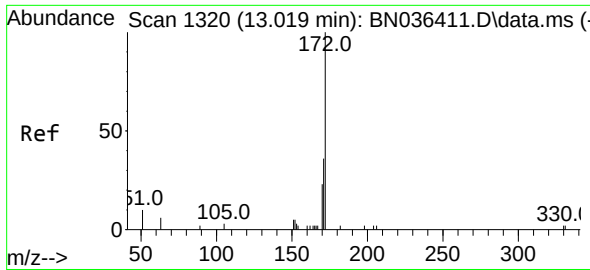
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#14
2,4,6-Tribromophenol
Concen: 0.411 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

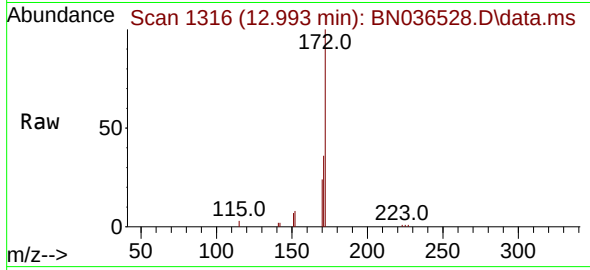
Tgt Ion:330 Resp: 862
Ion Ratio Lower Upper
330 100
332 96.5 76.6 114.8
141 50.7 37.8 56.8





#15
2-Fluorobiphenyl
Concen: 0.556 ng
RT: 12.993 min Scan# 1316
Delta R.T. 0.005 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

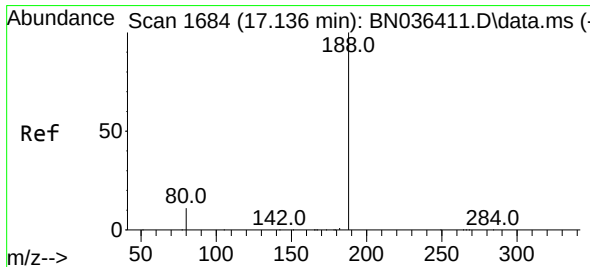
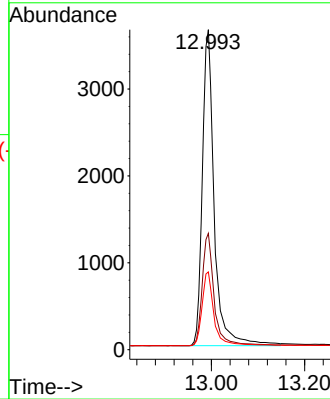
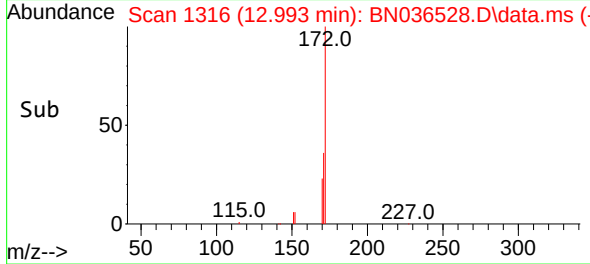
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228



Tgt Ion:172 Resp: 884
Ion Ratio Lower Upper
172 100
171 36.4 29.6 44.4
170 24.3 19.8 29.6

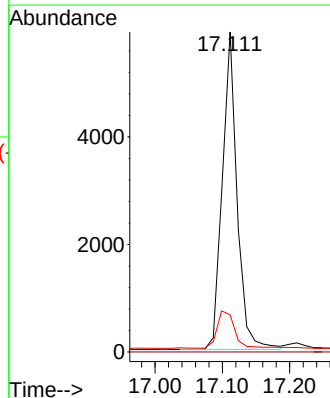
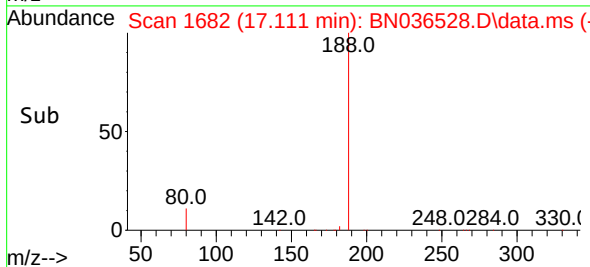
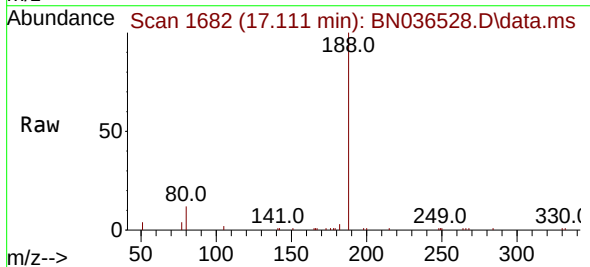
Manual Integrations
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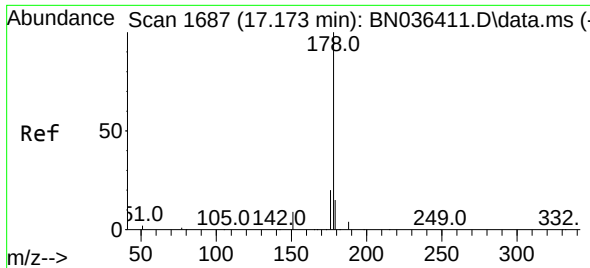
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

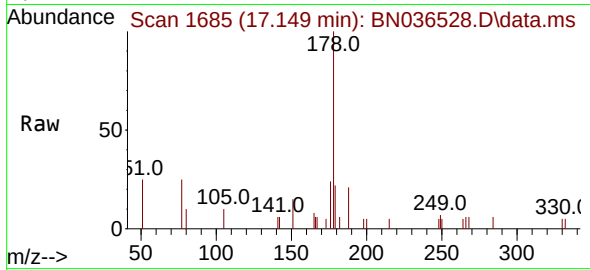
Tgt Ion:188 Resp: 8982
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.6 9.8 14.6





#25
Phenanthrene
Concen: 0.054 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

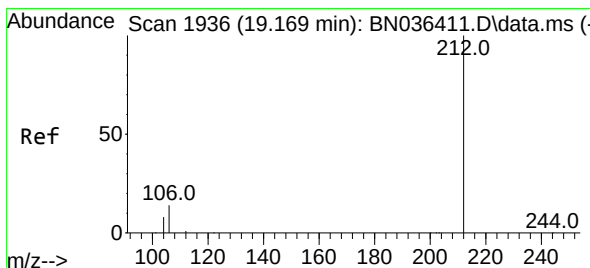
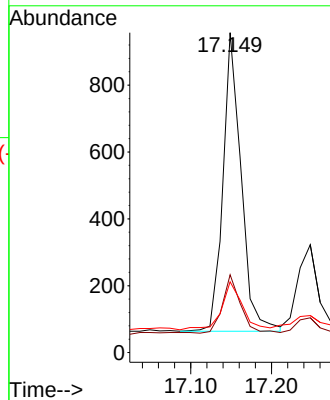
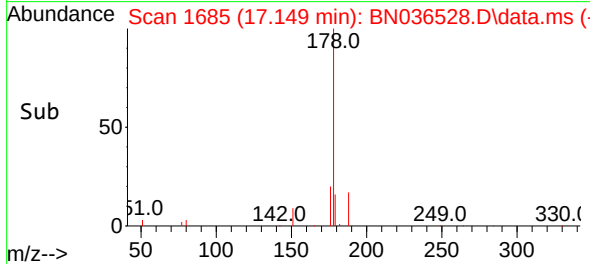
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228



Tgt Ion:178 Resp: 1394
Ion Ratio Lower Upper
178 100
176 19.4 15.7 23.5
179 18.4 12.4 18.6

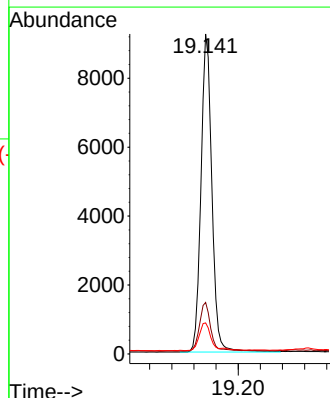
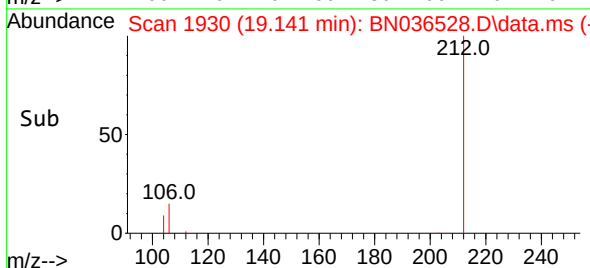
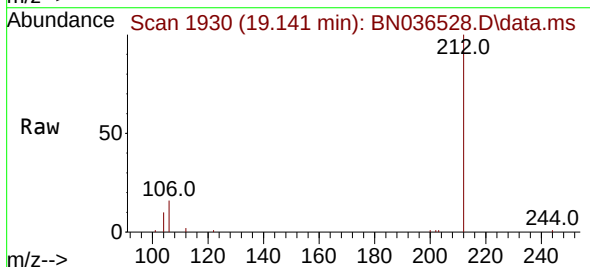
Manual Integrations
APPROVED

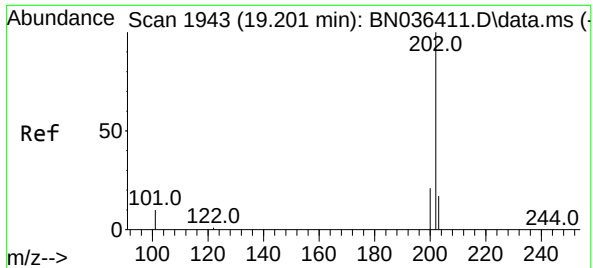
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#27
Fluoranthene-d10
Concen: 0.507 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

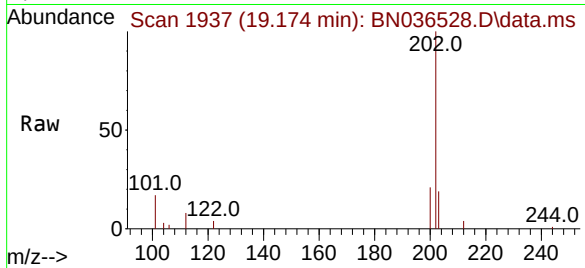
Tgt Ion:212 Resp: 12661
Ion Ratio Lower Upper
212 100
106 15.6 11.5 17.3
104 9.6 7.1 10.7





#28
Fluoranthene
Concen: 0.240 ng
RT: 19.174 min Scan# 1943
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

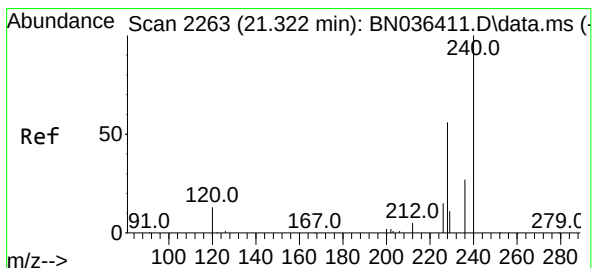
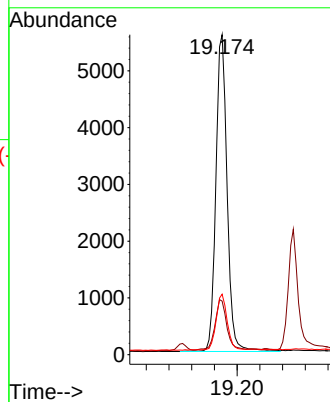
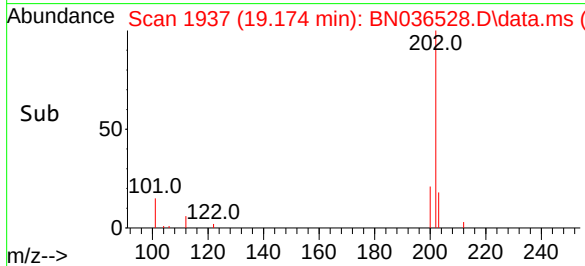
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228



Tgt Ion:202 Resp: 7659
Ion Ratio Lower Upper
202 100
101 16.7 9.2 13.8
203 16.9 13.4 20.0

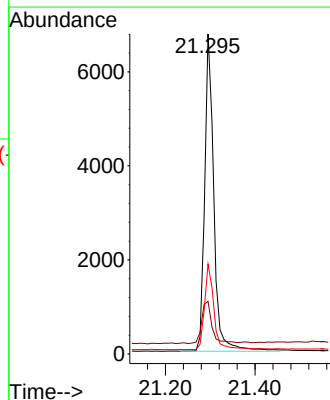
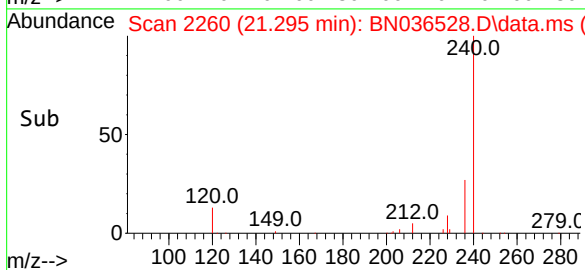
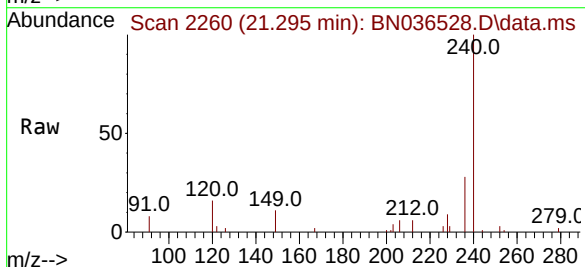
Manual Integrations
APPROVED

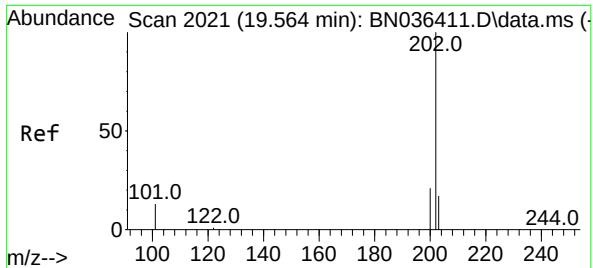
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

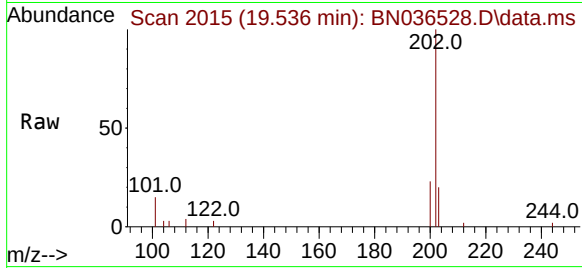
Tgt Ion:240 Resp: 9606
Ion Ratio Lower Upper
240 100
120 16.4 13.3 19.9
236 28.1 23.0 34.6





#30
Pyrene
Concen: 0.150 ng
RT: 19.536 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

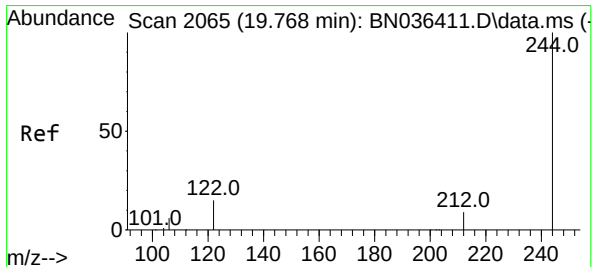
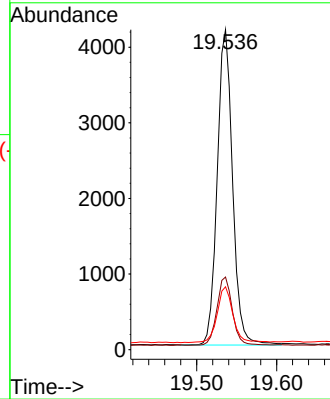
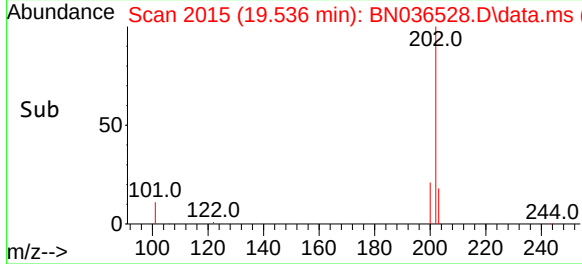
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228



Tgt Ion:202 Resp: 5560
Ion Ratio Lower Upper
202 100
200 21.5 16.9 25.3
203 18.3 13.9 20.9

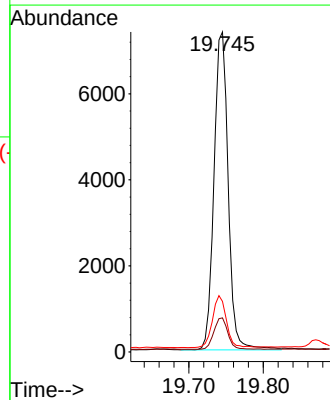
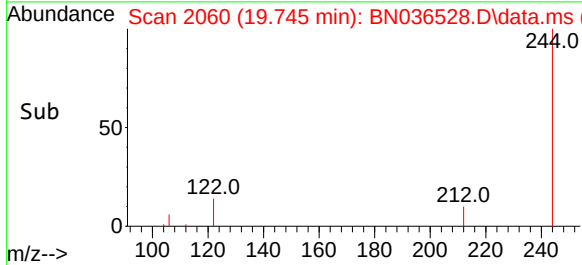
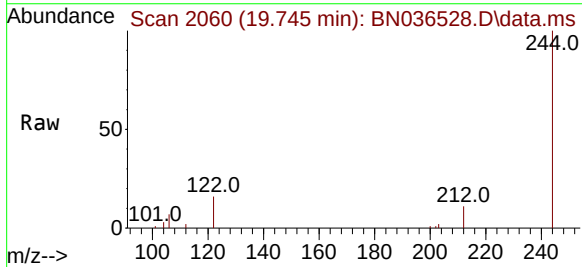
Manual Integrations
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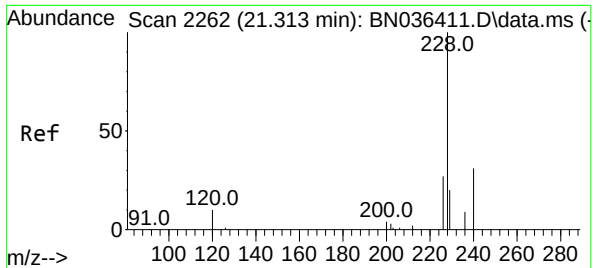
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#31
Terphenyl-d14
Concen: 0.476 ng
RT: 19.745 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

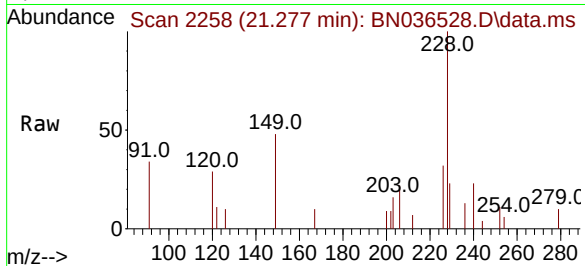
Tgt Ion:244 Resp: 9769
Ion Ratio Lower Upper
244 100
212 10.7 8.1 12.1
122 15.8 12.8 19.2





#32
Benzo(a)anthracene
Concen: 0.076 ng
RT: 21.277 min Scan# 2126
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

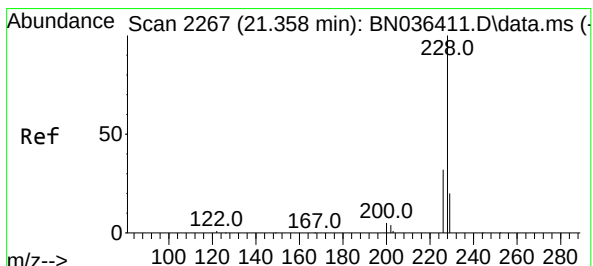
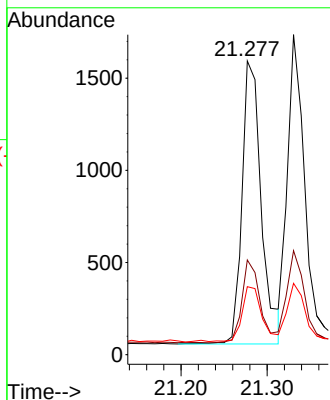
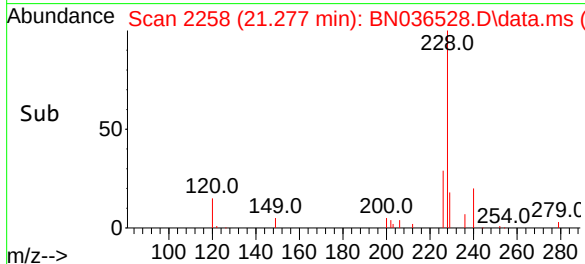
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228



Tgt Ion:228 Resp: 2403
Ion Ratio Lower Upper
228 100
226 32.2 22.2 33.2
229 23.1 16.5 24.7

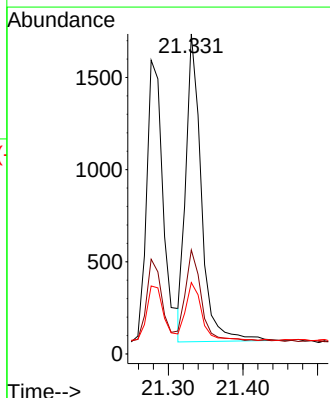
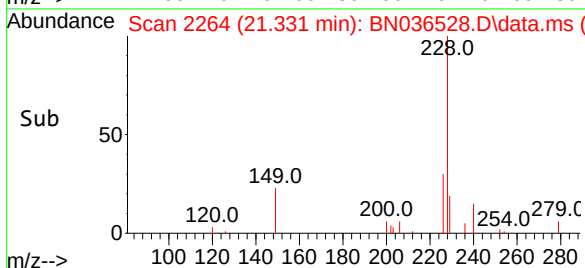
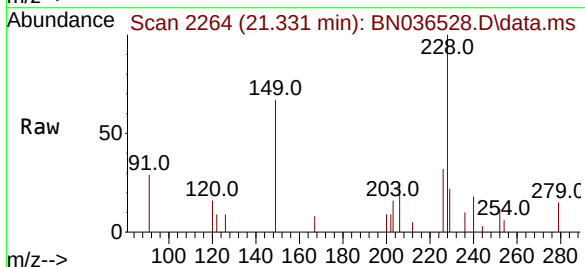
Manual Integrations
APPROVED

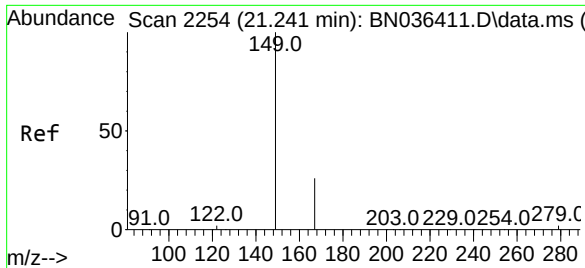
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#33
Chrysene
Concen: 0.070 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

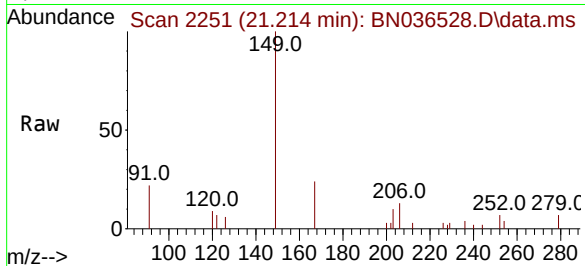
Tgt Ion:228 Resp: 2403
Ion Ratio Lower Upper
228 100
226 32.5 25.5 38.3
229 22.3 16.4 24.6





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 21.214 min Scan# 2111
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

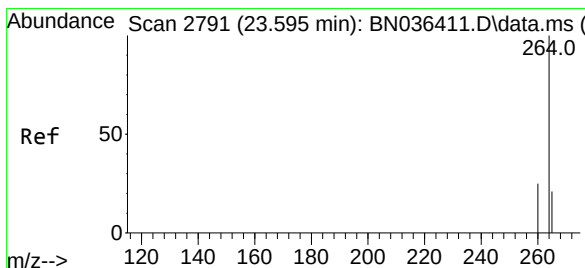
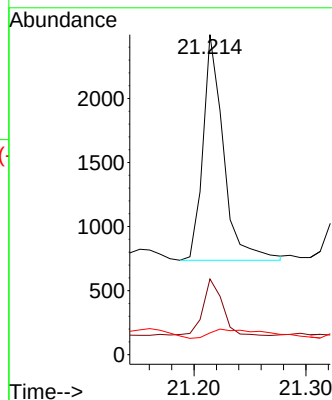
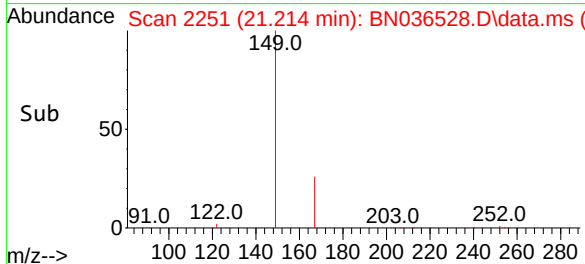
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228



Tgt Ion:149 Resp: 2230
Ion Ratio Lower Upper
149 100
167 23.8 21.2 31.8
279 10.1 2.7 4.1

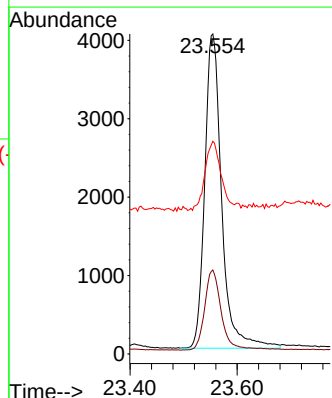
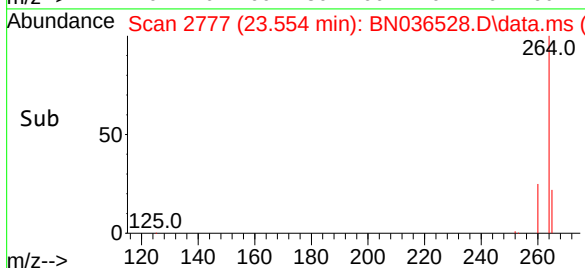
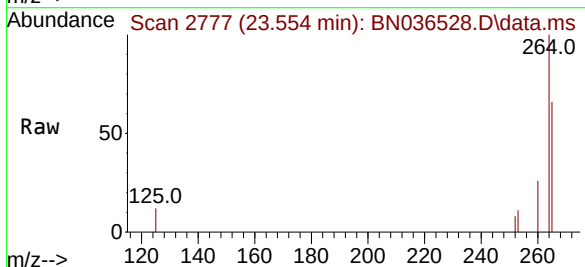
Manual Integrations
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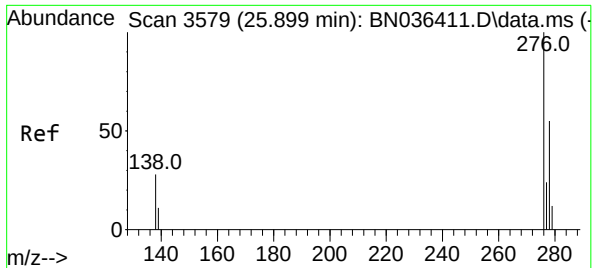
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. 0.003 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

Tgt Ion:264 Resp: 8798
Ion Ratio Lower Upper
264 100
260 26.3 20.9 31.3
265 66.4 60.7 91.1





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.045 ng

RT: 25.847 min Scan# 3561

Delta R.T. 0.009 min

Lab File: BN036528.D

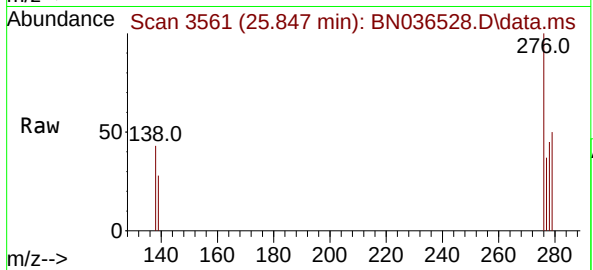
Acq: 05 Mar 2025 17:30

Instrument :

BNA_N

ClientSampleId :

RW7-SP302-20250228



Tgt Ion:276 Resp: 137

Ion Ratio Lower Upper

276 100

138 27.2 22.2 33.2

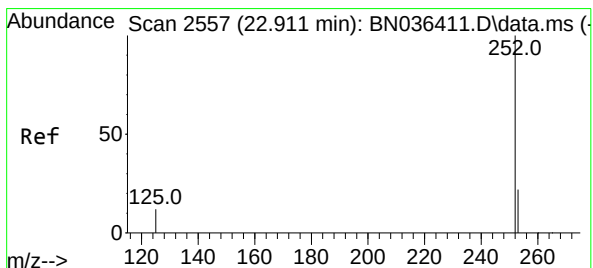
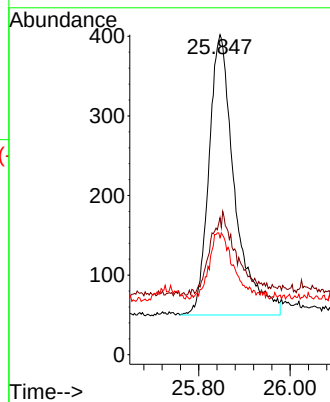
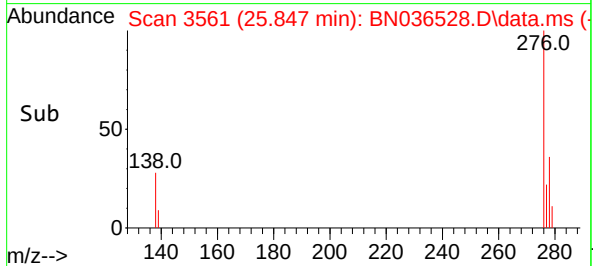
277 10.3 19.8 29.6

Manual Integrations

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Reviewed By :Anahy Claudio 03/06/2025

Supervised By :Jagrut Upadhyay 03/06/2025



#37

Benzo(b)fluoranthene

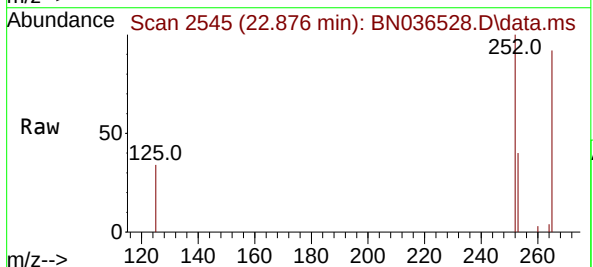
Concen: 0.098 ng

RT: 22.876 min Scan# 2545

Delta R.T. 0.003 min

Lab File: BN036528.D

Acq: 05 Mar 2025 17:30



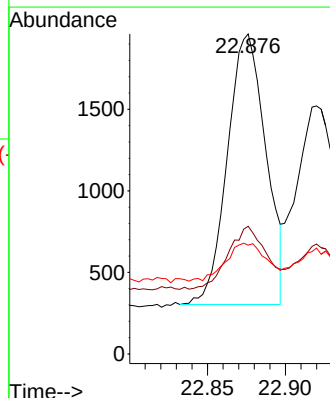
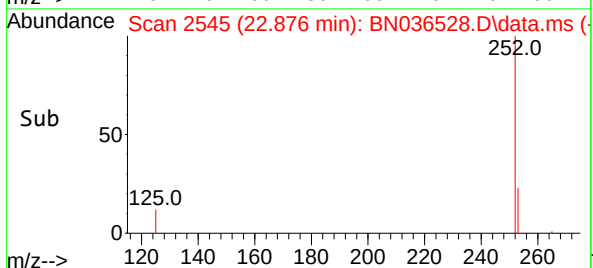
Tgt Ion:252 Resp: 2840

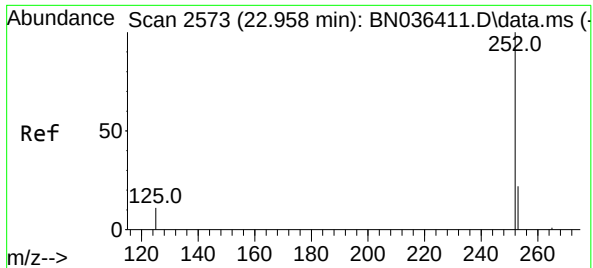
Ion Ratio Lower Upper

252 100

253 39.9 21.9 32.9#

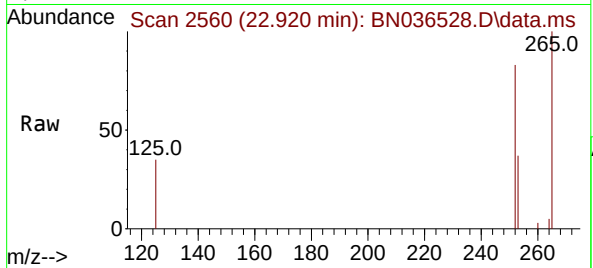
125 34.0 15.0 22.6#





#38
Benzo(k)fluoranthene
Concen: 0.080 ng m
RT: 22.920 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

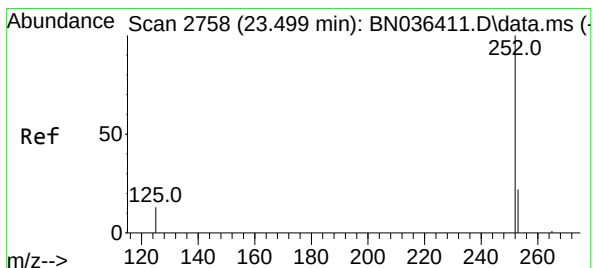
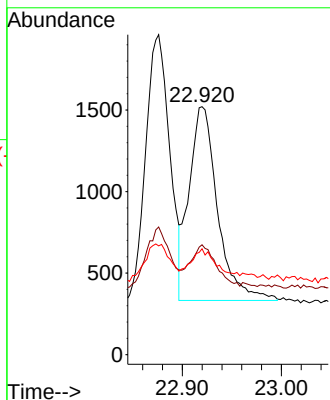
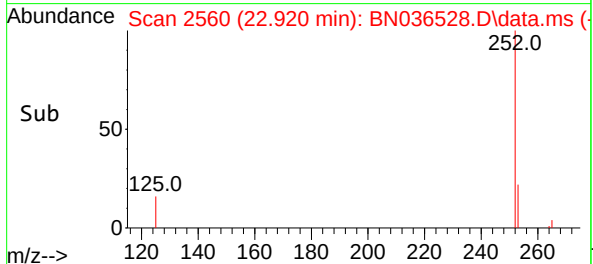
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228



Tgt Ion:252 Resp: 2380
Ion Ratio Lower Upper
252 100
253 44.3 22.2 33.4#
125 42.7 15.0 22.4#

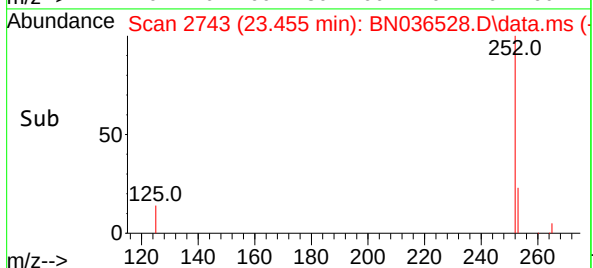
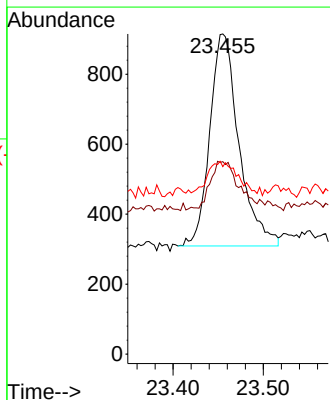
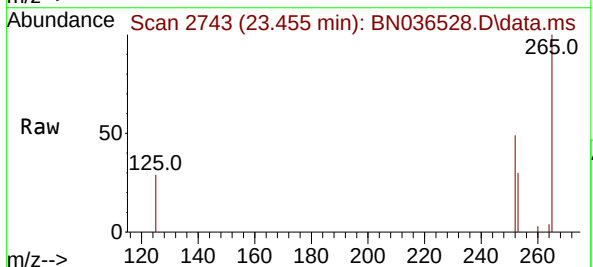
Manual Integrations
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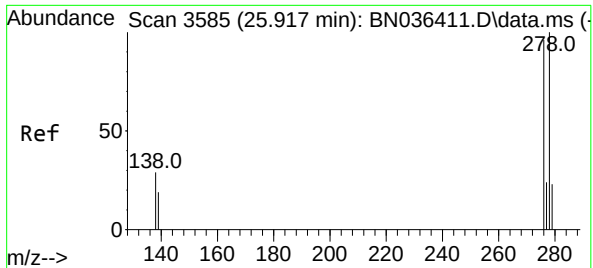
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#39
Benzo(a)pyrene
Concen: 0.054 ng
RT: 23.455 min Scan# 2743
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

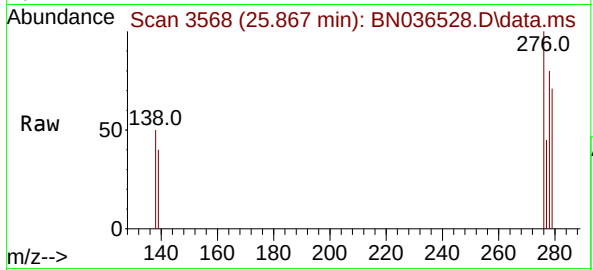
Tgt Ion:252 Resp: 1362
Ion Ratio Lower Upper
252 100
253 60.1 24.4 36.6#
125 58.6 18.2 27.2#





#40
Dibenzo(a,h)anthracene
Concen: 0.028 ng m
RT: 25.867 min Scan# 31
Delta R.T. 0.015 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

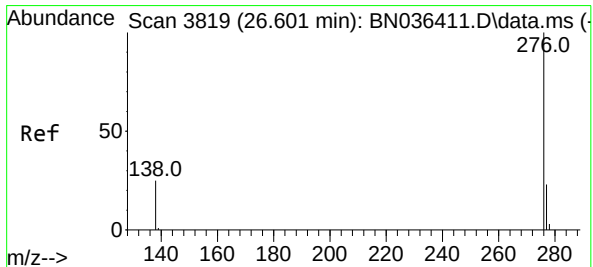
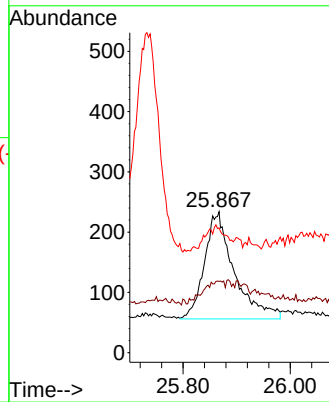
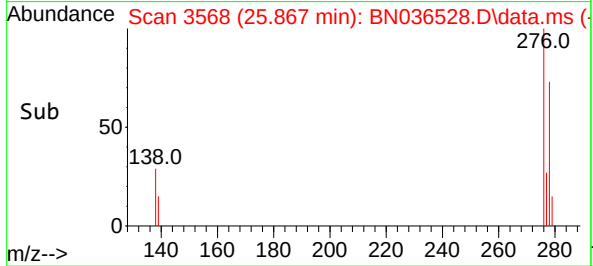
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228



Tgt Ion:278 Resp: 682
Ion Ratio Lower Upper
278 100
139 50.4 18.5 27.7
279 88.5 24.8 37.2

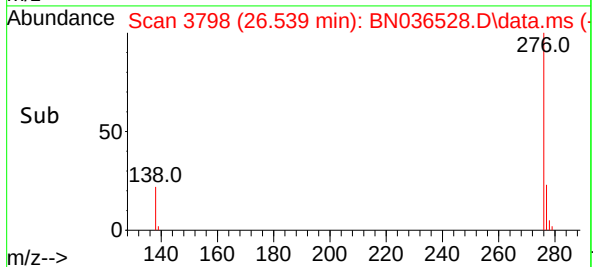
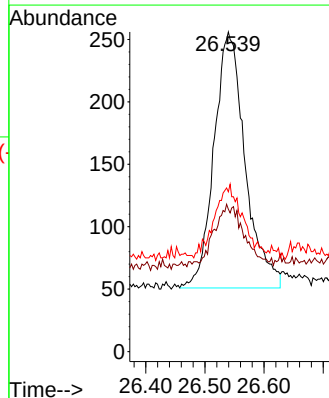
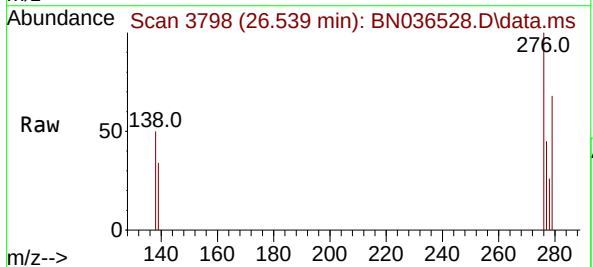
Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#41
Benzo(g,h,i)perylene
Concen: 0.027 ng
RT: 26.539 min Scan# 3798
Delta R.T. 0.012 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

Tgt Ion:276 Resp: 750
Ion Ratio Lower Upper
276 100
277 44.5 20.7 31.1#
138 50.0 21.8 32.6#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/28/25
Project:	CTO WE13	Date Received:	03/03/25
Client Sample ID:	RW7-SP303-20250228	SDG No.:	Q1477
Lab Sample ID:	Q1477-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	830 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
BN036529.D	1	03/05/25 09:15	03/05/25 18:07	PB166992

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.24	U	0.080	0.24	0.24	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		114%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		78%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.49	*	53 - 106		122%	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	1830	7.732				
1146-65-2	Naphthalene-d8	4150	10.519				
15067-26-2	Acenaphthene-d10	2620	14.366				
1517-22-2	Phenanthrene-d10	5710	17.111				
1719-03-5	Chrysene-d12	5790	21.295				
1520-96-3	Perylene-d12	5270	23.557				

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\BN030525\
 Data File : BN036529.D
 Acq On : 05 Mar 2025 18:07
 Operator : RC/JU
 Sample : Q1477-04
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP303-20250228

Manual Integrations
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Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 06 00:44:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	1825	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	4151	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2616	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5706	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5791	0.400	ng	# 0.00
35) Perylene-d12	23.557	264	5265	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	708	0.164	ng	0.00
5) Phenol-d6	6.908	99	525	0.104	ng	0.00
8) Nitrobenzene-d5	8.886	82	1275	0.311	ng	0.01
11) 2-Methylnaphthalene-d10	12.116	152	1941	0.304	ng	0.01
14) 2,4,6-Tribromophenol	15.858	330	471	0.363	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	4787	0.487	ng	0.00
27) Fluoranthene-d10	19.141	212	7266	0.458	ng	0.00
31) Terphenyl-d14	19.745	244	6098	0.493	ng	0.00
Target Compounds						Qvalue
28) Fluoranthene	19.173	202	479	0.024	ng	# 74
34) Bis(2-ethylhexyl)phtha...	21.214	149	1753	0.148	ng	# 92

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

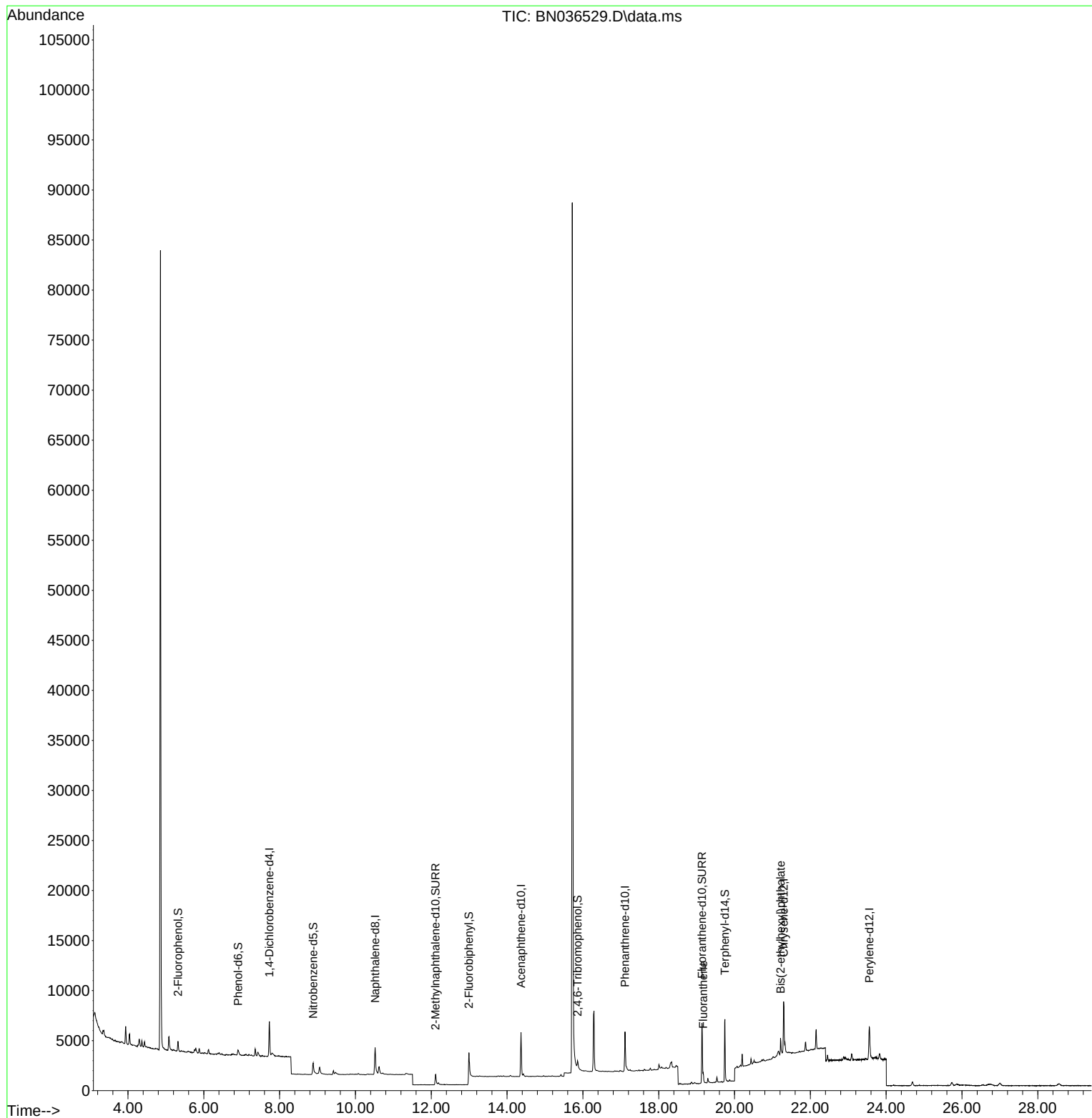
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
Data File : BN036529.D
Acq On : 05 Mar 2025 18:07
Operator : RC/JU
Sample : Q1477-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

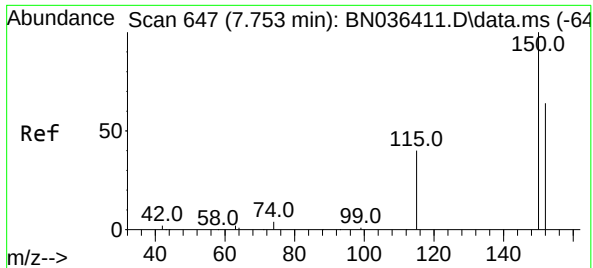
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228

Manual Integrations
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Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

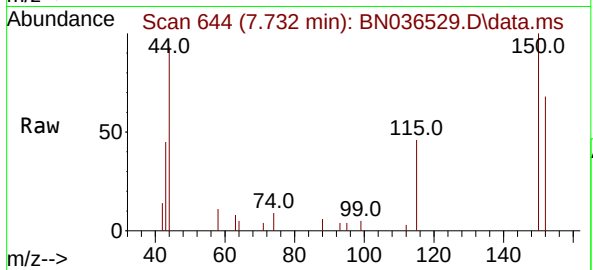
Quant Time: Mar 06 00:44:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.732 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

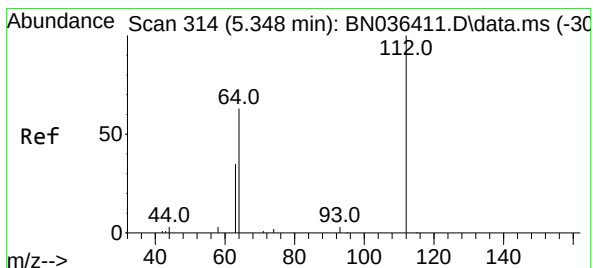
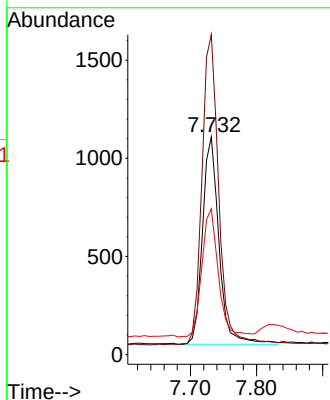
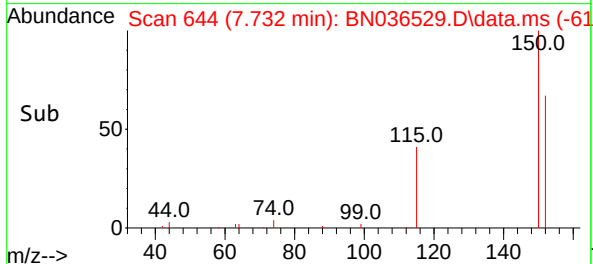
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228



Tgt Ion:152 Resp: 182
Ion Ratio Lower Upper
152 100
150 147.0 123.7 185.5
115 67.0 52.5 78.7

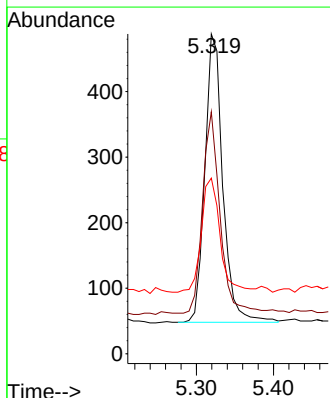
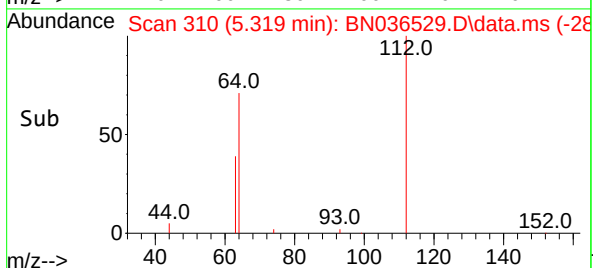
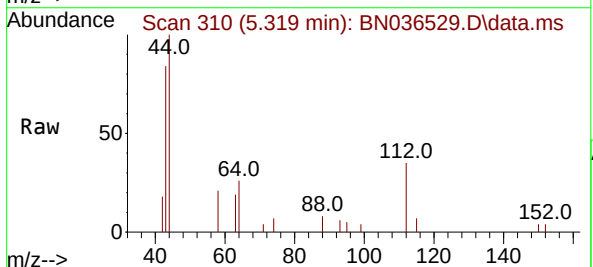
Manual Integrations
APPROVED

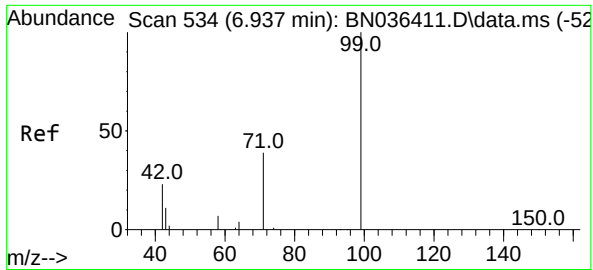
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#4
2-Fluorophenol
Concen: 0.164 ng
RT: 5.319 min Scan# 310
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

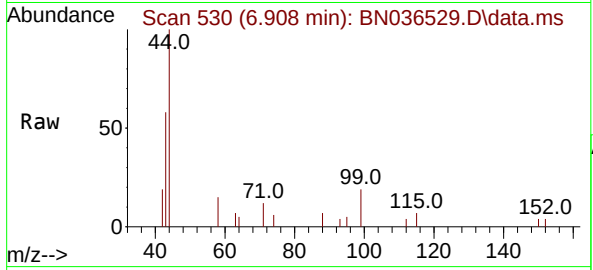
Tgt Ion:112 Resp: 708
Ion Ratio Lower Upper
112 100
64 68.5 53.4 80.0
63 42.4 30.3 45.5





#5
Phenol-d6
Concen: 0.104 ng
RT: 6.908 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

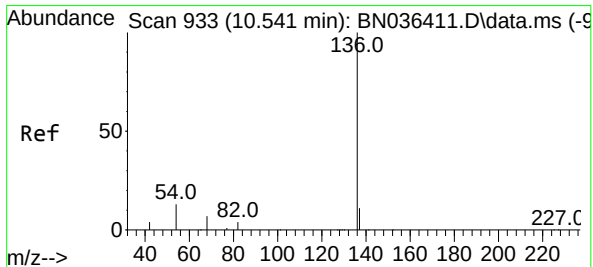
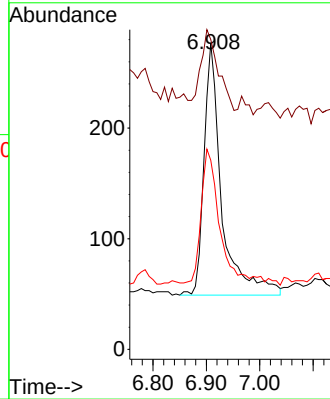
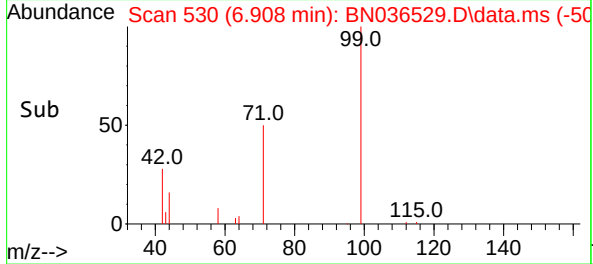
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228



Tgt Ion: 99 Resp: 529
Ion Ratio Lower Upper
99 100
42 31.2 21.7 32.5
71 53.0 32.6 49.0

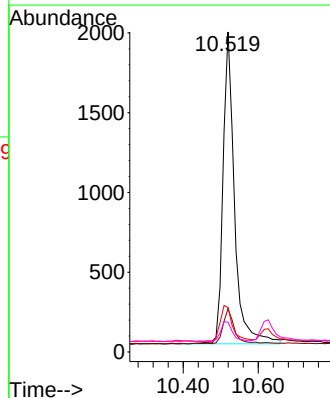
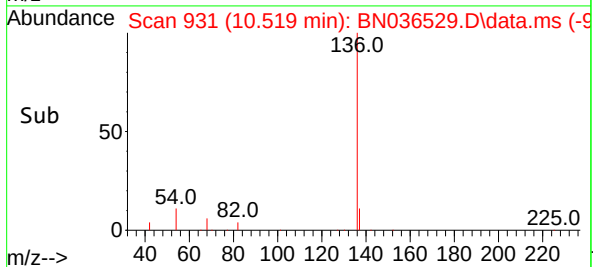
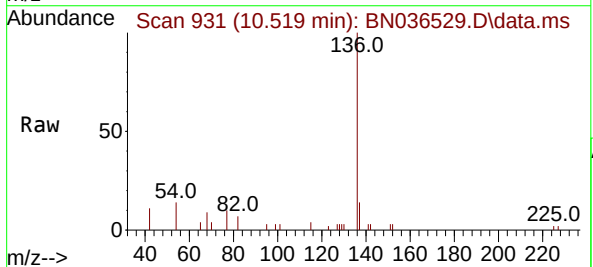
Manual Integrations
APPROVED

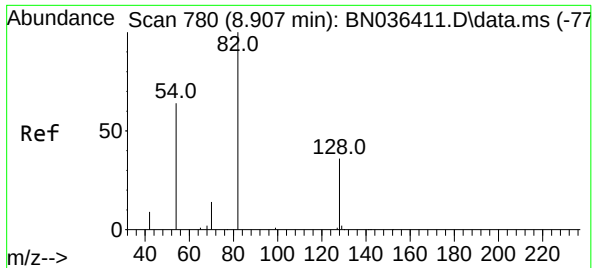
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 931
Delta R.T. 0.011 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

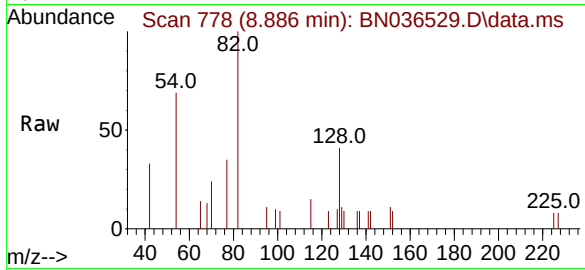
Tgt Ion:136 Resp: 4151
Ion Ratio Lower Upper
136 100
137 13.6 10.1 15.1
54 13.9 11.8 17.6
68 9.3 7.2 10.8





#8
Nitrobenzene-d5
Concen: 0.311 ng
RT: 8.886 min Scan# 71
Delta R.T. 0.011 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

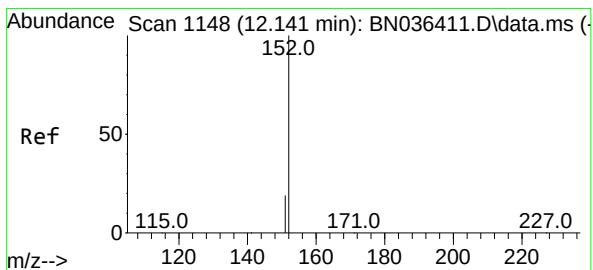
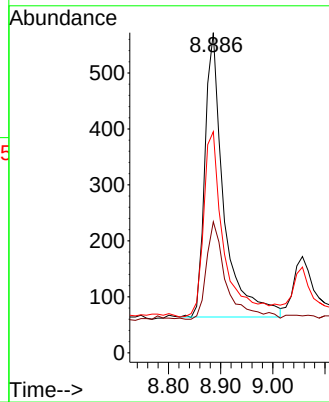
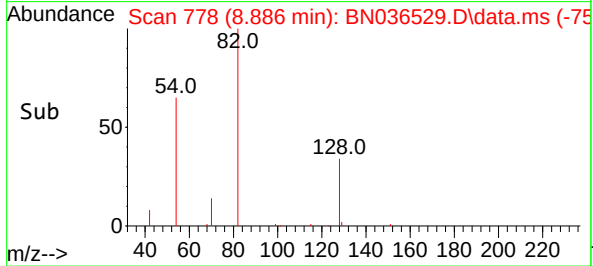
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228



Tgt Ion: 82 Resp: 1275
Ion Ratio Lower Upper
82 100
128 40.9 31.9 47.9
54 69.1 53.1 79.7

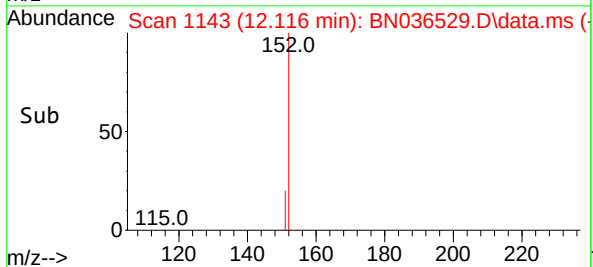
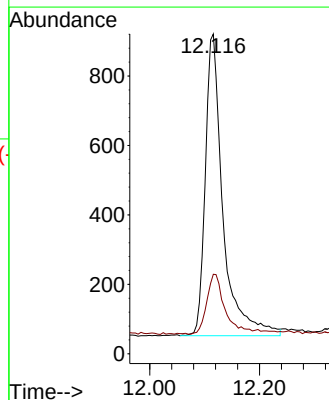
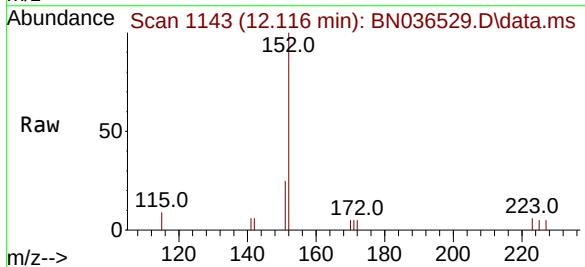
Manual Integrations
APPROVED

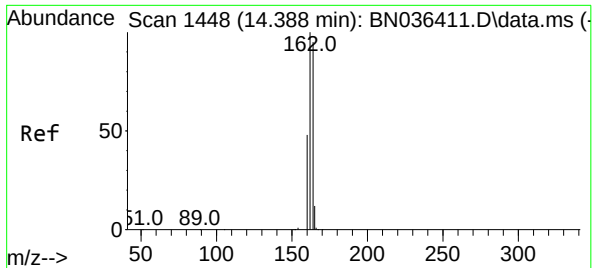
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#11
2-Methylnaphthalene-d10
Concen: 0.304 ng
RT: 12.116 min Scan# 1143
Delta R.T. 0.010 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

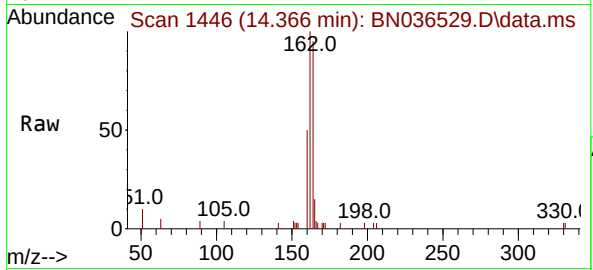
Tgt Ion:152 Resp: 1941
Ion Ratio Lower Upper
152 100
151 20.3 16.6 25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

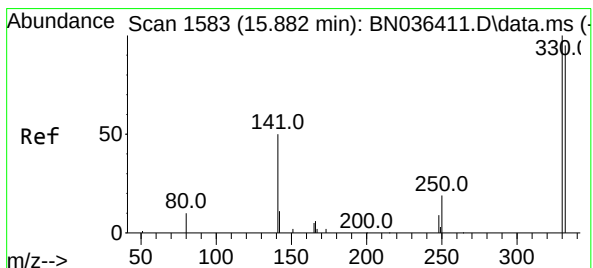
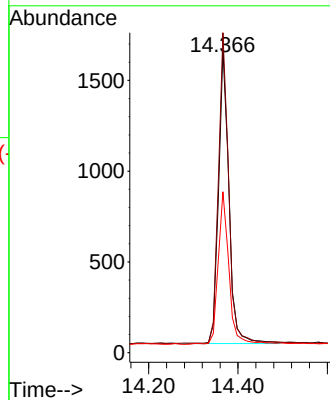
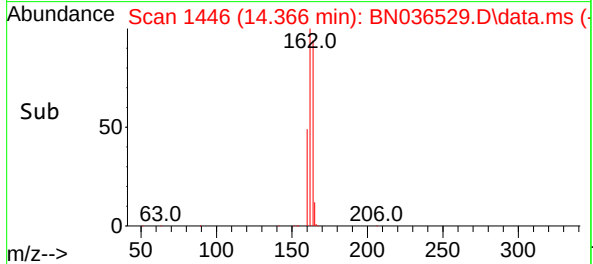
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228



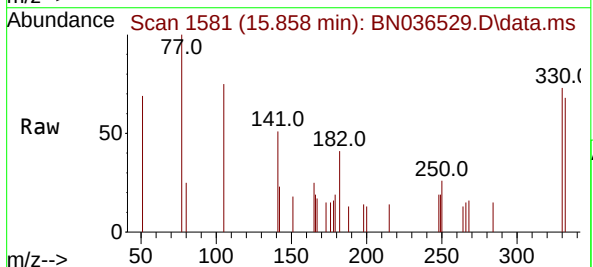
Tgt Ion:164 Resp: 2610
Ion Ratio Lower Upper
164 100
162 105.6 84.1 126.1
160 53.1 41.4 62.0

Manual Integrations
APPROVED

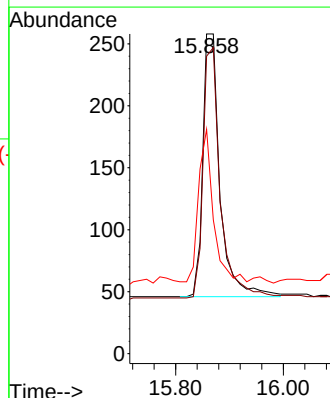
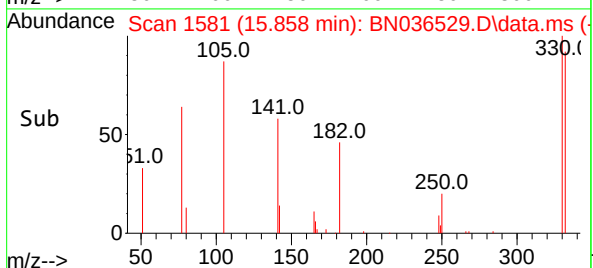
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

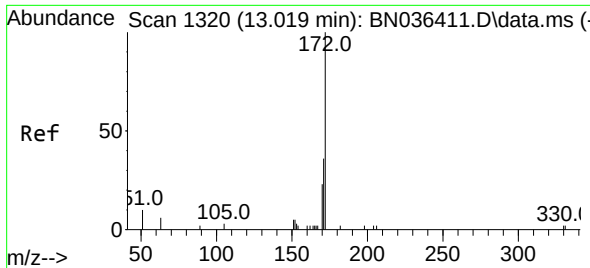


#14
2,4,6-Tribromophenol
Concen: 0.363 ng
RT: 15.858 min Scan# 1581
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07



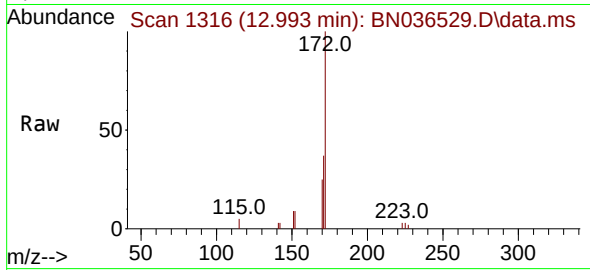
Tgt Ion:330 Resp: 471
Ion Ratio Lower Upper
330 100
332 95.5 76.6 114.8
141 50.1 37.8 56.8





#15
2-Fluorobiphenyl
Concen: 0.487 ng
RT: 12.993 min Scan# 1316
Delta R.T. 0.005 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

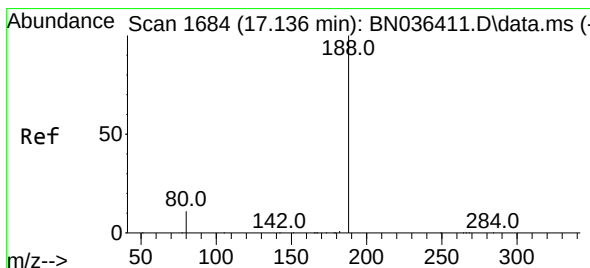
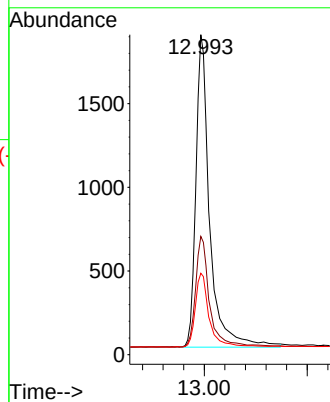
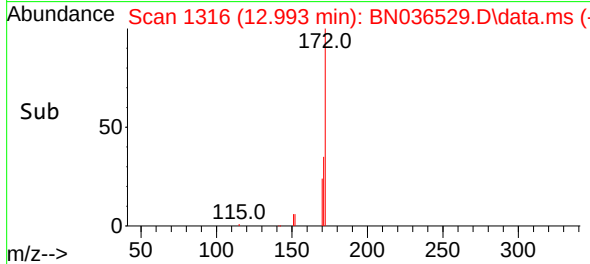
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228



Tgt Ion:172 Resp: 478
Ion Ratio Lower Upper
172 100
171 37.0 29.6 44.4
170 25.5 19.8 29.6

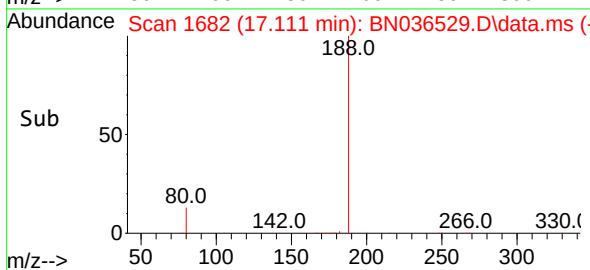
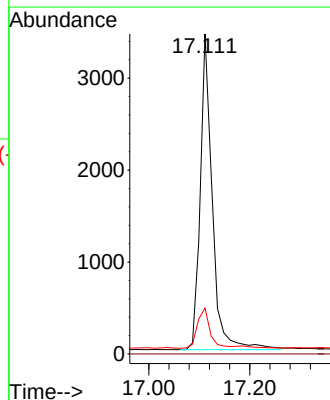
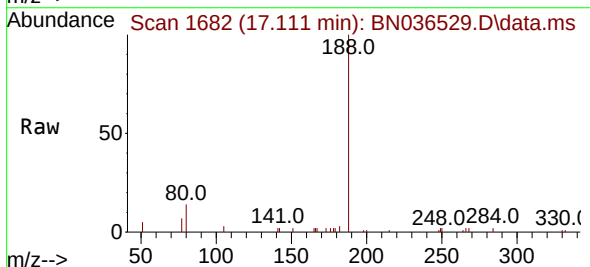
Manual Integrations
APPROVED

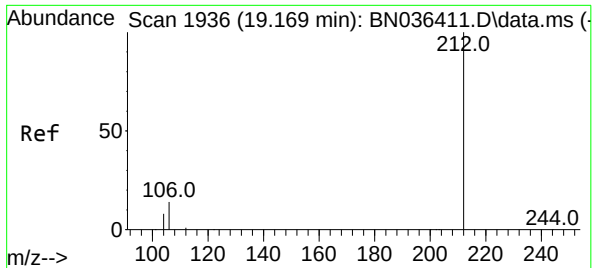
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

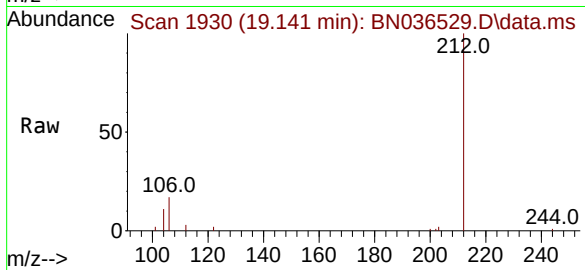
Tgt Ion:188 Resp: 5706
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.4 9.8 14.6





#27
Fluoranthene-d10
Concen: 0.458 ng
RT: 19.141 min Scan# 1936
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

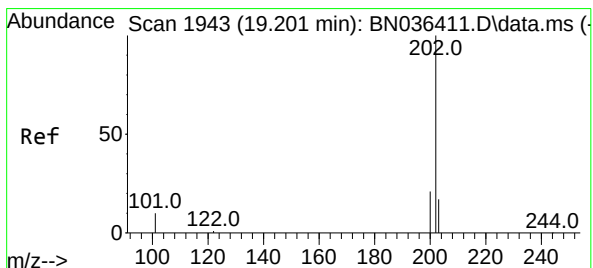
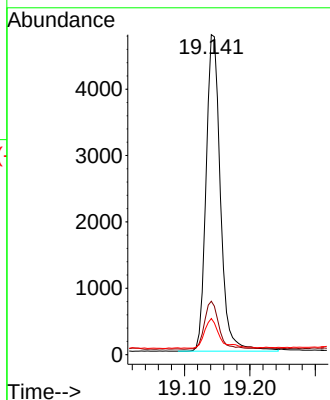
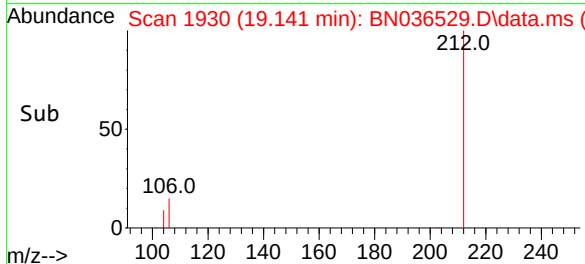
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228



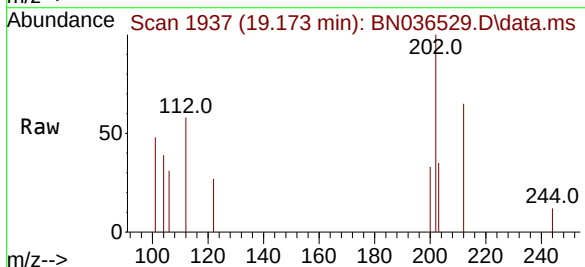
Tgt Ion:212 Resp: 7260
Ion Ratio Lower Upper
212 100
106 15.3 11.5 17.3
104 9.7 7.1 10.7

Manual Integrations
APPROVED

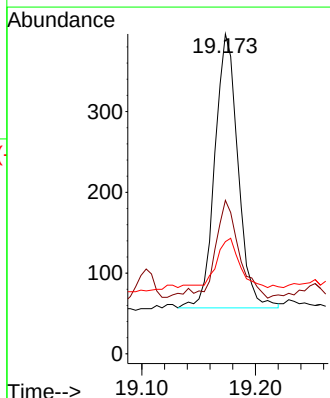
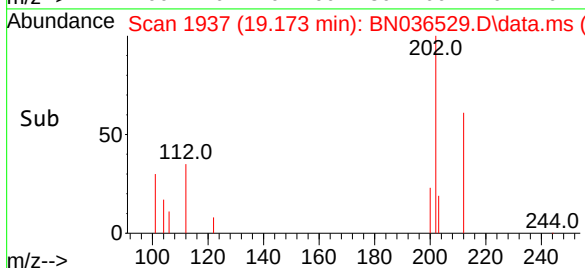
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

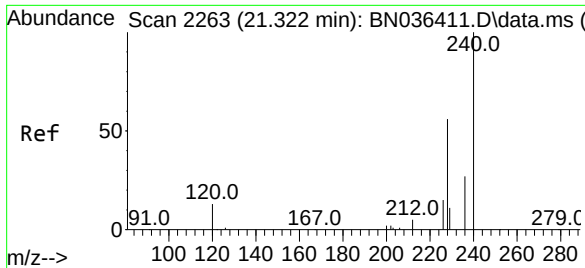


#28
Fluoranthene
Concen: 0.024 ng
RT: 19.173 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07



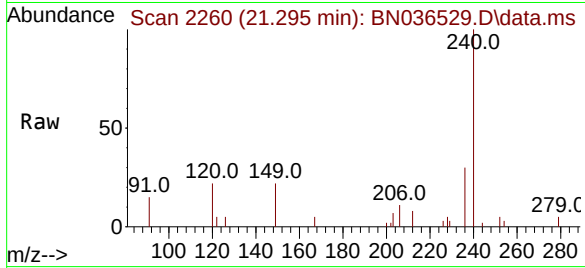
Tgt Ion:202 Resp: 479
Ion Ratio Lower Upper
202 100
101 34.4 9.2 13.8#
203 18.2 13.4 20.0





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

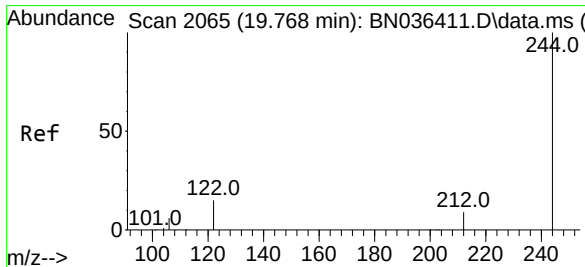
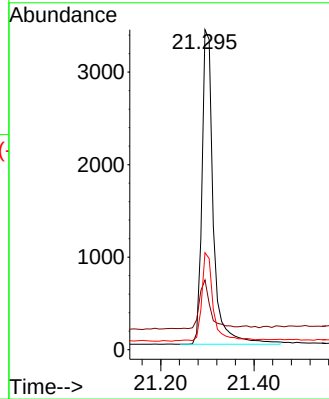
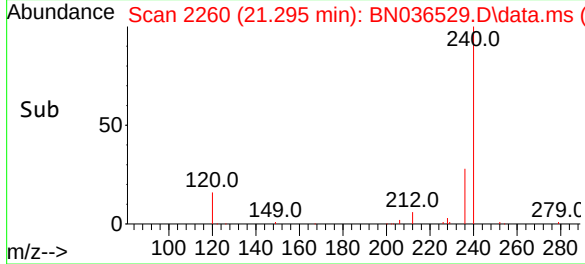
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228



Tgt Ion:240 Resp: 579
Ion Ratio Lower Upper
240 100
120 21.8 13.3 19.9
236 30.3 23.0 34.6

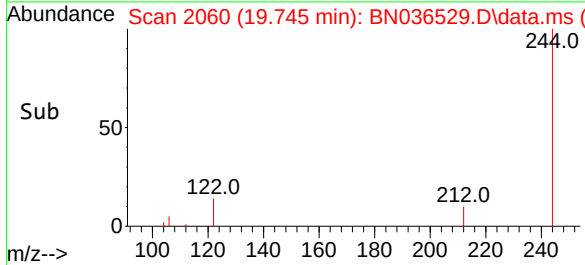
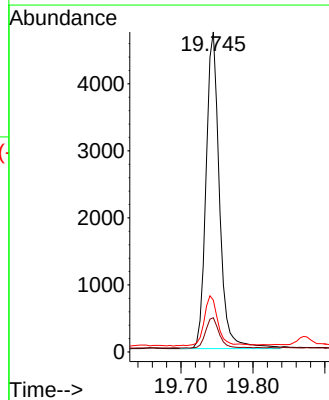
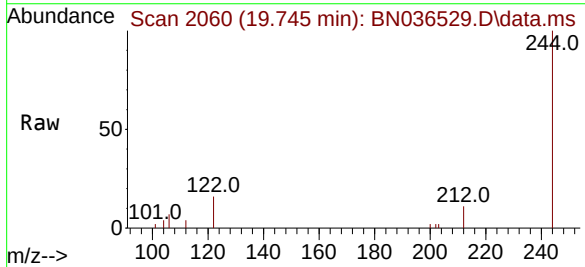
Manual Integrations
APPROVED

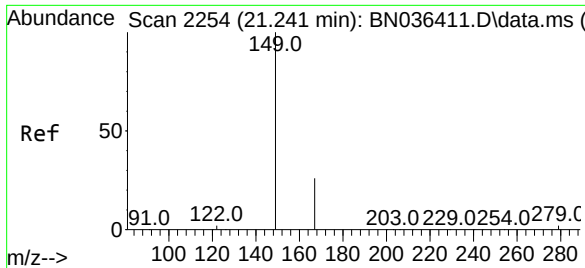
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#31
Terphenyl-d14
Concen: 0.493 ng
RT: 19.745 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

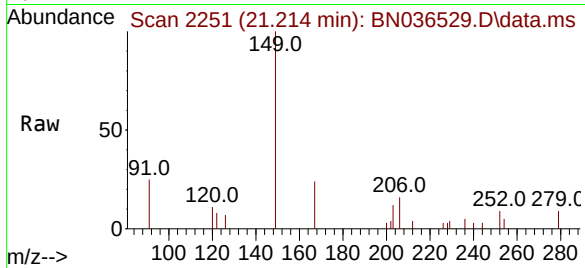
Tgt Ion:244 Resp: 6098
Ion Ratio Lower Upper
244 100
212 10.7 8.1 12.1
122 16.2 12.8 19.2





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.148 ng
RT: 21.214 min Scan# 211
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

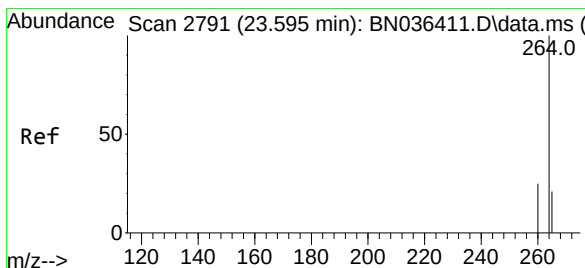
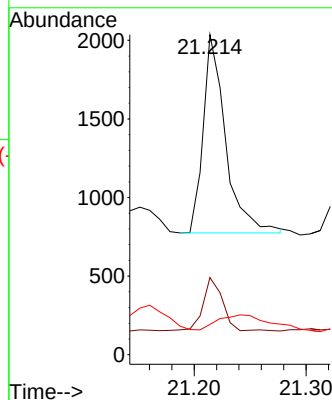
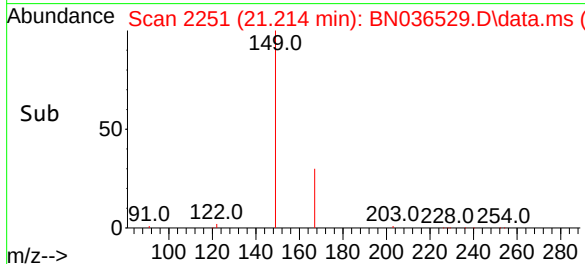
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228



Tgt Ion:149 Resp: 175
Ion Ratio Lower Upper
149 100
167 22.8 21.2 31.8
279 0.0 2.7 4.1

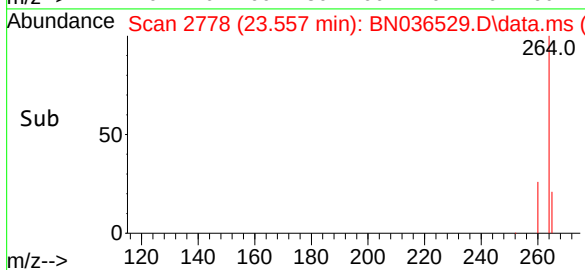
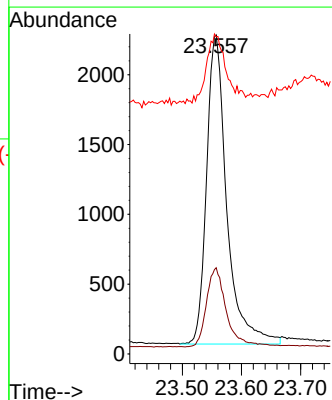
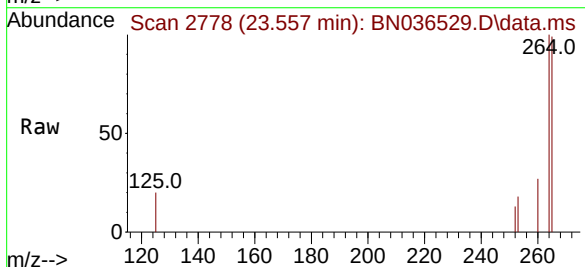
Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.557 min Scan# 2778
Delta R.T. 0.006 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

Tgt Ion:264 Resp: 5265
Ion Ratio Lower Upper
264 100
260 27.0 20.9 31.3
265 99.4 60.7 91.1





CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN021025.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Feb 11 01:17:14 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036409.D 0.2 =BN036410.D 0.4 =BN036411.D 0.8 =BN036412.D 1.6 =BN036413.D 3.2 =BN036414.D 5.0 =BN036415.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	0.555	0.437	0.433	0.414	0.411	0.433	0.381	0.438	12.66
3)	n-Nitrosodimet...	0.906	0.779	0.764	0.724	0.708	0.769	0.670	0.760	9.90
4) S	2-Fluorophenol	1.009	0.954	0.936	0.920	0.914	0.999	0.885	0.945	4.80
5) S	Phenol-d6	1.134	1.007	1.032	1.062	1.099	1.267	1.164	1.109	8.00
6)	bis(2-Chloroet...	1.382	1.070	1.086	1.129	1.120	1.225	1.107	1.160	9.48
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.500	0.363	0.365	0.370	0.367	0.417	0.381	0.395	12.70
9)	Naphthalene	1.400	1.141	1.116	1.088	1.075	1.186	1.073	1.154	10.01
10)	Hexachlorobuta...	0.319	0.293	0.283	0.272	0.264	0.282	0.253	0.281	7.67
11) SURR2	Methylnaphth...	0.647	0.583	0.602	0.588	0.597	0.668	0.618	0.615	5.19
12)	2-Methylnaphth...	0.833	0.712	0.738	0.721	0.726	0.816	0.750	0.757	6.40
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.196	0.181	0.186	0.184	0.195	0.226	0.219	0.198	8.90
15) S	2-Fluorobiphenyl	1.409	1.390	1.377	1.491	1.564	1.738	1.558	1.504	8.57
16)	Acenaphthylene	1.807	1.667	1.692	1.683	1.734	1.964	1.820	1.767	5.98
17)	Acenaphthene	1.245	1.125	1.146	1.128	1.175	1.273	1.169	1.180	4.89
18)	Fluorene	1.696	1.630	1.661	1.627	1.669	1.829	1.646	1.680	4.17
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.071	0.067	0.069	0.074	0.084	0.107		0.078	19.60
21)	4-Bromophenyl-...	0.243	0.227	0.231	0.232	0.236	0.264	0.238	0.239	5.15
22)	Hexachlorobenzene	0.305	0.296	0.284	0.287	0.289	0.317	0.285	0.295	4.11
23)	Atrazine	0.196	0.190	0.187	0.186	0.194	0.229	0.213	0.199	8.00
24)	Pentachlorophenol	0.140	0.125	0.122	0.122	0.134	0.170	0.167	0.140	14.74
25)	Phenanthrene	1.233	1.090	1.095	1.112	1.138	1.273	1.153	1.156	6.12
26)	Anthracene	0.990	0.933	0.967	0.978	1.015	1.167	1.088	1.020	7.92
27) SURR	Fluoranthene-d10	1.109	1.043	1.063	1.059	1.098	1.258	1.156	1.112	6.70
28)	Fluoranthene	1.441	1.323	1.353	1.356	1.404	1.607	1.461	1.421	6.76
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.584	1.568	1.534	1.490	1.488	1.629	1.492	1.541	3.59
31) S	Terphenyl-d14	0.860	0.847	0.852	0.829	0.834	0.913	0.843	0.854	3.27
32)	Benzo(a)anthra...	1.257	1.276	1.293	1.255	1.300	1.471	1.362	1.316	5.86
33)	Chrysene	1.449	1.456	1.360	1.414	1.404	1.527	1.366	1.425	4.08
34)	Bis(2-ethylhex...	0.902	0.875	0.777	0.745	0.761	0.861	0.819	0.820	7.45
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN021025.M

36)	Indeno(1,2,3-c...	1.182	1.289	1.378	1.390	1.446	1.630	1.471	1.398	10.13
37)	Benzo(b)fluora...	1.174	1.220	1.260	1.290	1.333	1.529	1.416	1.317	9.24
38)	Benzo(k)fluora...	1.258	1.253	1.363	1.326	1.347	1.532	1.413	1.356	7.08
39) C	Benzo(a)pyrene	1.091	1.081	1.102	1.114	1.145	1.309	1.206	1.150	7.12
40)	Dibenzo(a,h)an...	0.906	1.021	1.075	1.087	1.154	1.304	1.176	1.103	11.40
41)	Benzo(g,h,i)pe...	1.140	1.212	1.254	1.230	1.269	1.400	1.249	1.250	6.27

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036409.D
 Acq On : 10 Feb 2025 12:25
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Feb 11 00:34:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

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

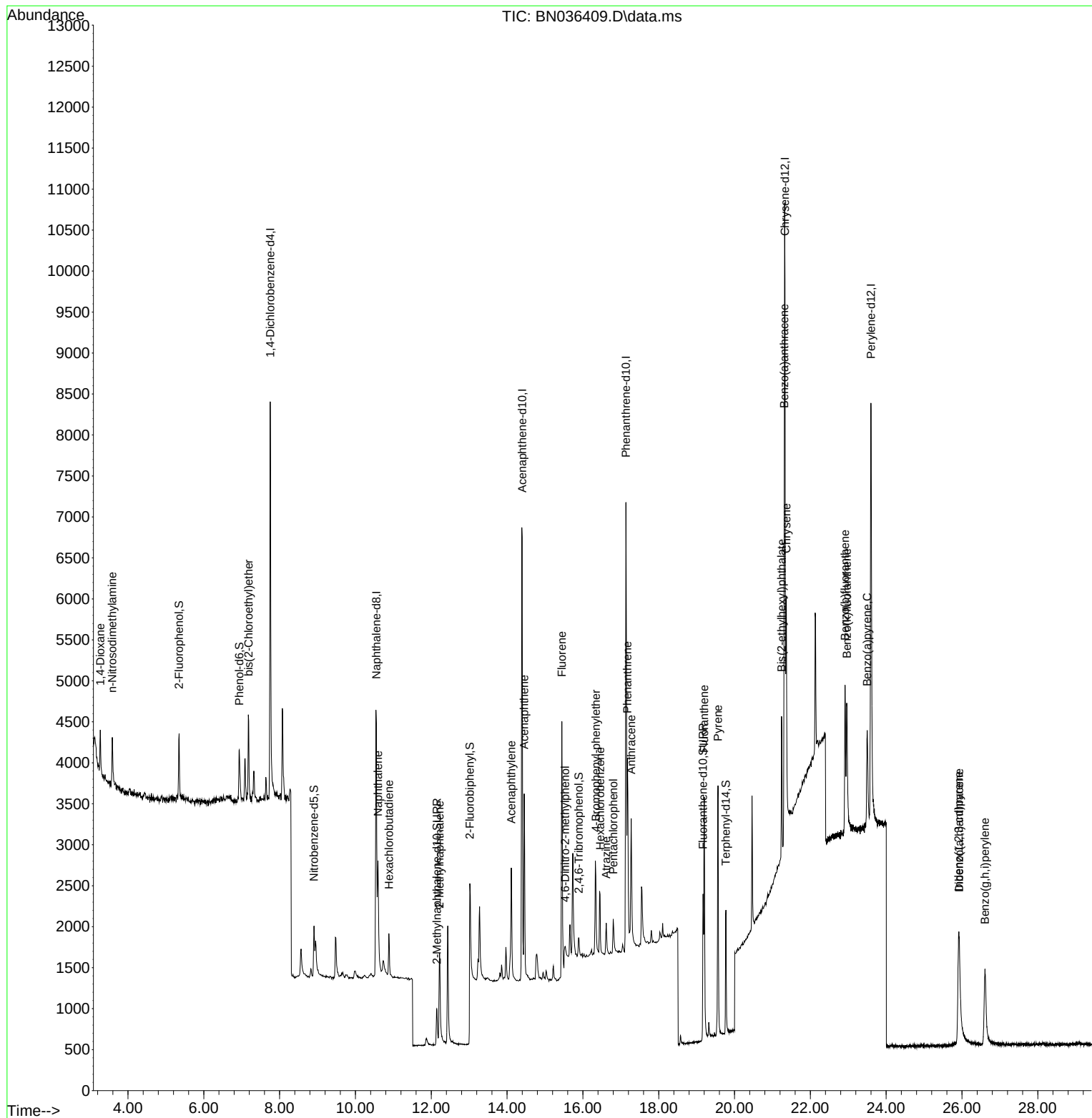
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2370	0.400	ng	0.00
7) Naphthalene-d8	10.552	136	5687	0.400	ng	# 0.01
13) Acenaphthene-d10	14.398	164	3837	0.400	ng	0.01
19) Phenanthrene-d10	17.136	188	8539	0.400	ng	0.00
29) Chrysene-d12	21.331	240	8027	0.400	ng	# 0.00
35) Perylene-d12	23.598	264	8068	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	598	0.099	ng	0.00
5) Phenol-d6	6.937	99	672	0.095	ng	0.00
8) Nitrobenzene-d5	8.907	82	711	0.134	ng	0.00
11) 2-Methylnaphthalene-d10	12.146	152	920	0.118	ng	0.00
14) 2,4,6-Tribromophenol	15.895	330	188	0.080	ng	0.01
15) 2-Fluorobiphenyl	13.019	172	1352	0.083	ng	0.00
27) Fluoranthene-d10	19.169	212	2368	0.108	ng	0.00
31) Terphenyl-d14	19.773	244	1725	0.104	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.268	88	329	0.126	ng	93
3) n-Nitrosodimethylamine	3.586	42	537	0.114	ng	# 96
6) bis(2-Chloroethyl)ether	7.183	93	819	0.140	ng	99
9) Naphthalene	10.594	128	1990	0.123	ng	# 91
10) Hexachlorobutadiene	10.883	225	454	0.089	ng	# 99
12) 2-Methylnaphthalene	12.217	142	1185	0.116	ng	96
16) Acenaphthylene	14.110	152	1733	0.098	ng	99
17) Acenaphthene	14.452	154	1194	0.098	ng	98
18) Fluorene	15.446	166	1627	0.104	ng	99
20) 4,6-Dinitro-2-methylph...	15.535	198	151	0.079	ng	# 36
21) 4-Bromophenyl-phenylether	16.342	248	518	0.089	ng	# 81
22) Hexachlorobenzene	16.453	284	651	0.085	ng	99
23) Atrazine	16.615	200	419	0.097	ng	# 85
24) Pentachlorophenol	16.801	266	298	0.089	ng	97
25) Phenanthrene	17.173	178	2633	0.105	ng	100
26) Anthracene	17.273	178	2113	0.093	ng	96
28) Fluoranthene	19.201	202	3077	0.104	ng	99
30) Pyrene	19.564	202	3179	0.099	ng	99
32) Benzo(a)anthracene	21.313	228	2523	0.088	ng	96
33) Chrysene	21.366	228	2908	0.099	ng	97
34) Bis(2-ethylhexyl)phtha...	21.241	149	1810	0.114	ng	99
36) Indeno(1,2,3-cd)pyrene	25.911	276	2385	0.075	ng	98
37) Benzo(b)fluoranthene	22.917	252	2367	0.083	ng	# 67
38) Benzo(k)fluoranthene	22.961	252	2537	0.087	ng	# 65
39) Benzo(a)pyrene	23.499	252	2200	0.089	ng	# 53
40) Dibenzo(a,h)anthracene	25.928	278	1827	0.073	ng	# 62
41) Benzo(g,h,i)perylene	26.607	276	2299	0.083	ng	# 83

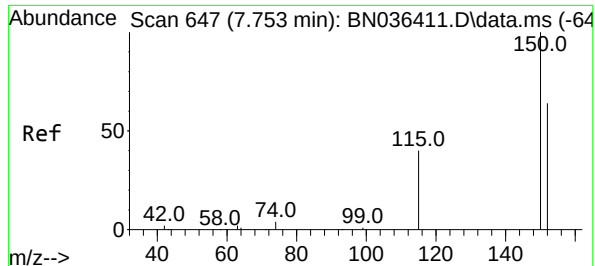
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Data File : BN036409.D
Acq On : 10 Feb 2025 12:25
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

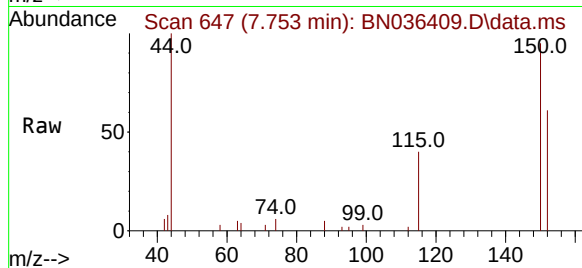
Quant Time: Feb 11 00:34:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration



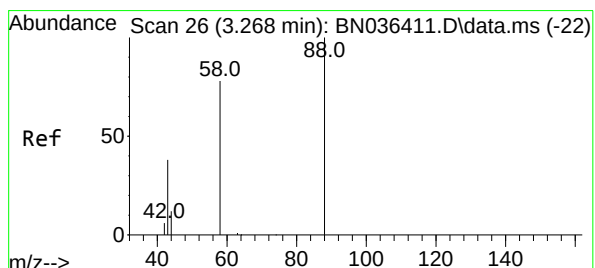
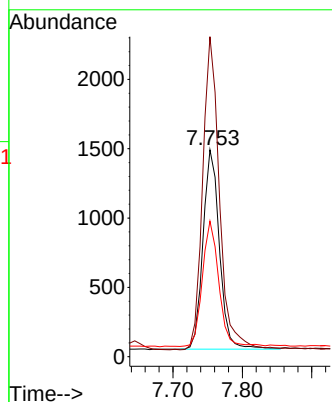
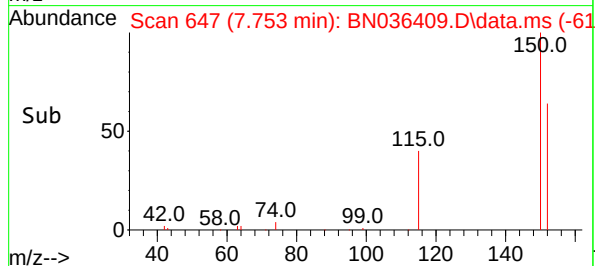


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

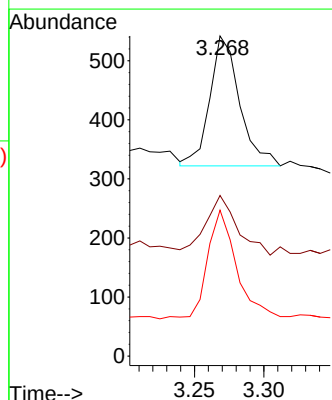
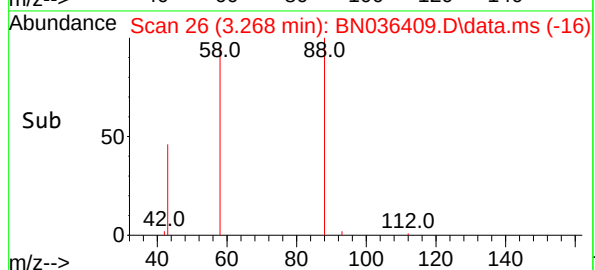
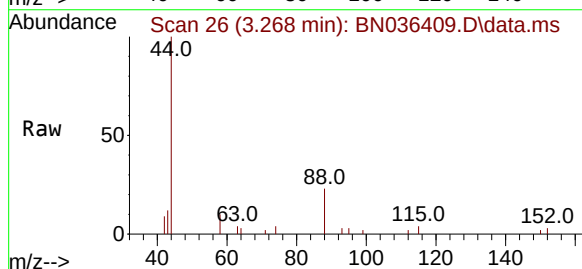


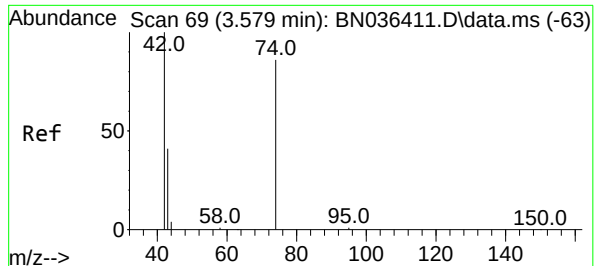
Tgt Ion:152 Resp: 2370
Ion Ratio Lower Upper
152 100
150 154.7 123.7 185.5
115 65.5 52.5 78.7



#2
1,4-Dioxane
Concen: 0.126 ng
RT: 3.268 min Scan# 26
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion: 88 Resp: 329
Ion Ratio Lower Upper
88 100
43 48.9 33.7 50.5
58 81.8 68.9 103.3

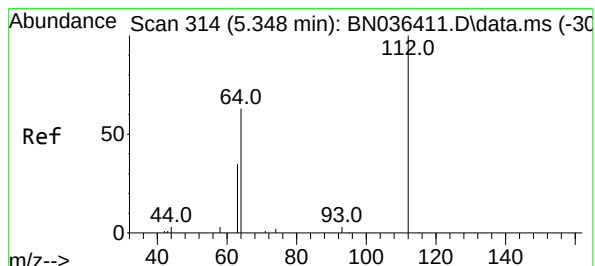
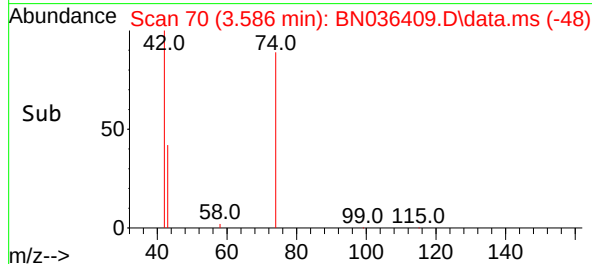
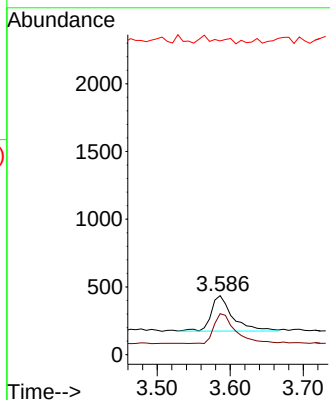
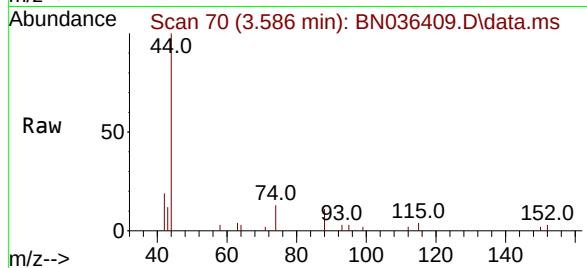




#3
n-Nitrosodimethylamine
Concen: 0.114 ng
RT: 3.586 min Scan# 70
Delta R.T. 0.007 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

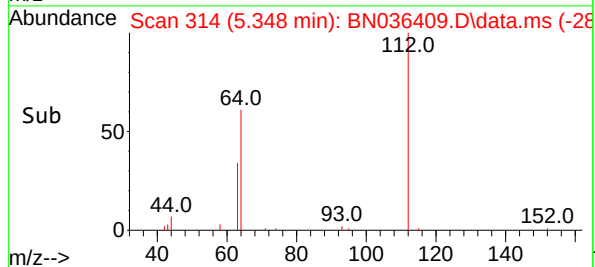
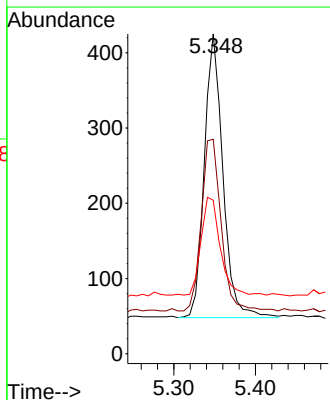
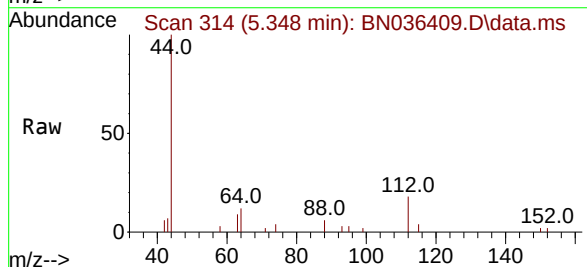
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

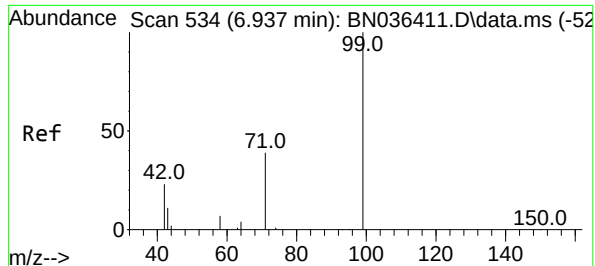
Tgt Ion: 42 Resp: 537
Ion Ratio Lower Upper
42 100
74 87.0 71.8 107.6
44 5.4 7.8 11.6#



#4
2-Fluorophenol
Concen: 0.099 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion: 112 Resp: 598
Ion Ratio Lower Upper
112 100
64 64.2 53.4 80.0
63 36.0 30.3 45.5





#5

Phenol-d6

Concen: 0.095 ng

RT: 6.937 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

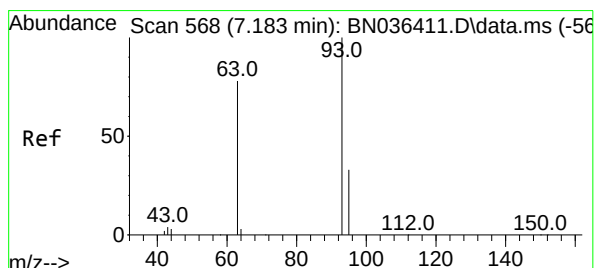
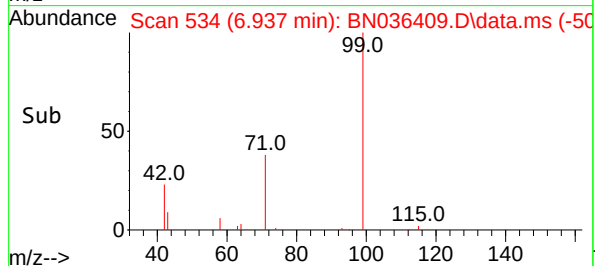
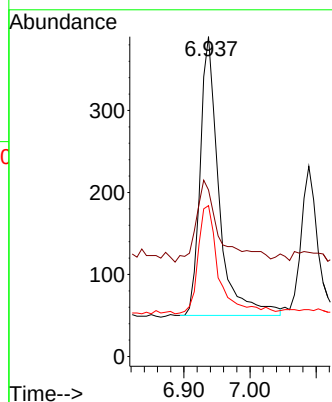
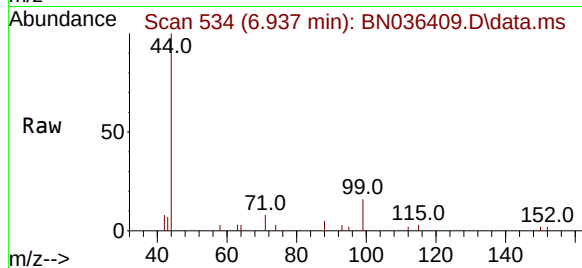
Tgt Ion: 99 Resp: 672

Ion Ratio Lower Upper

99 100

42 36.8 21.7 32.5#

71 42.9 32.6 49.0



#6

bis(2-Chloroethyl)ether

Concen: 0.140 ng

RT: 7.183 min Scan# 568

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

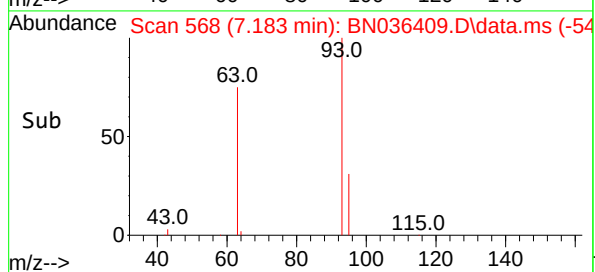
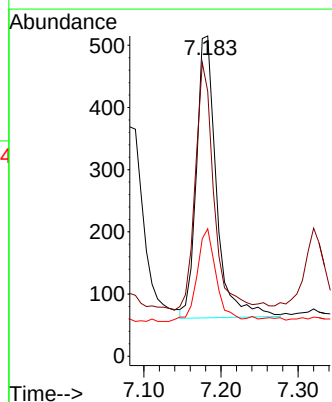
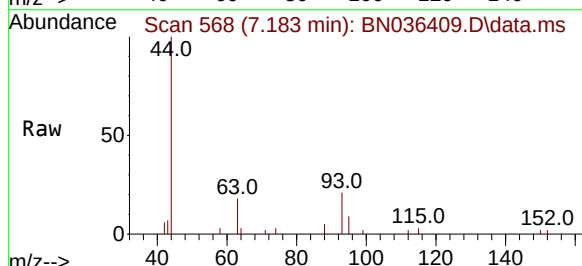
Tgt Ion: 93 Resp: 819

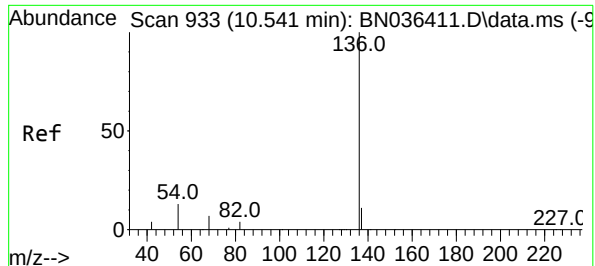
Ion Ratio Lower Upper

93 100

63 82.8 66.3 99.5

95 31.5 26.2 39.4

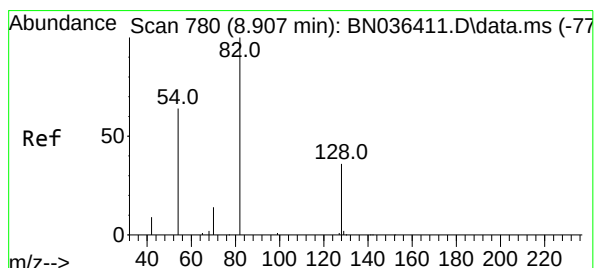
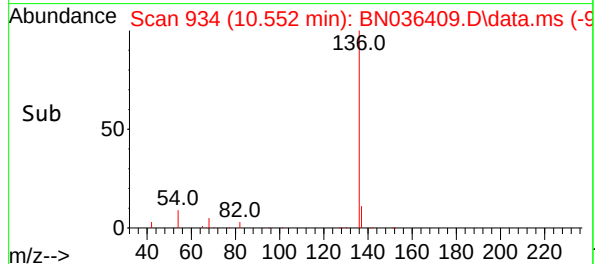
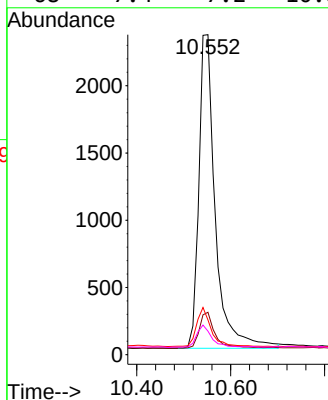
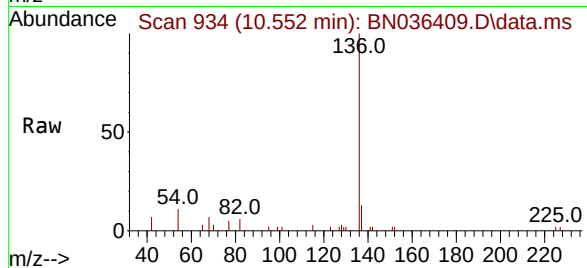




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

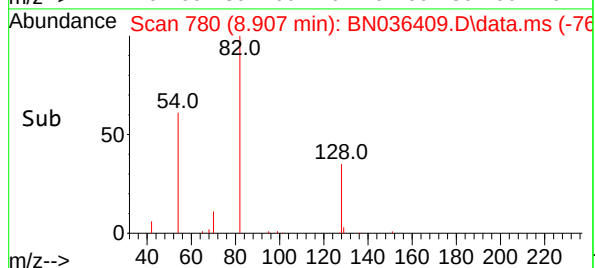
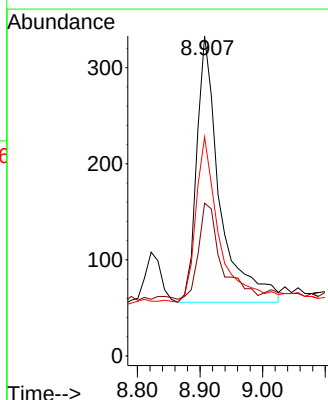
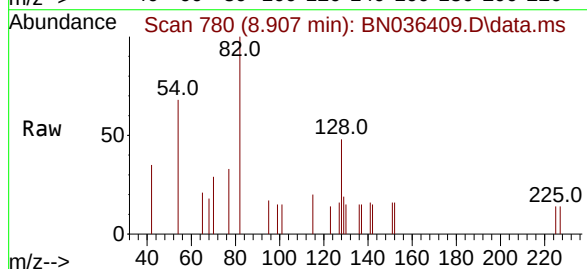
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BNA_N
ClientSampleId :
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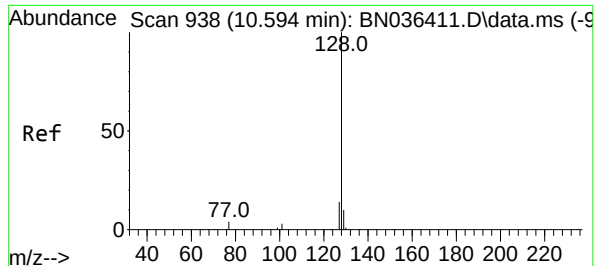
Tgt Ion:	136	Resp:	5687
Ion	Ratio	Lower	Upper
136	100		
137	13.3	10.1	15.1
54	10.9	11.8	17.6#
68	7.4	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.134 ng
RT: 8.907 min Scan# 780
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:	82	Resp:	711
Ion	Ratio	Lower	Upper
82	100		
128	47.7	31.9	47.9
54	68.5	53.1	79.7



#9
Naphthalene

Concen: 0.123 ng

RT: 10.594 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

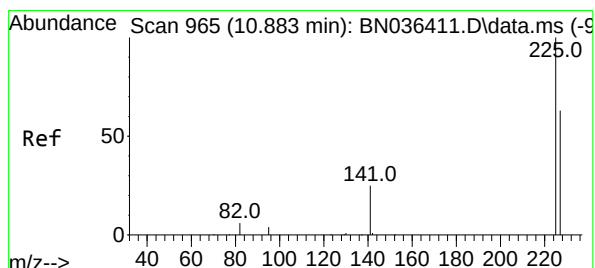
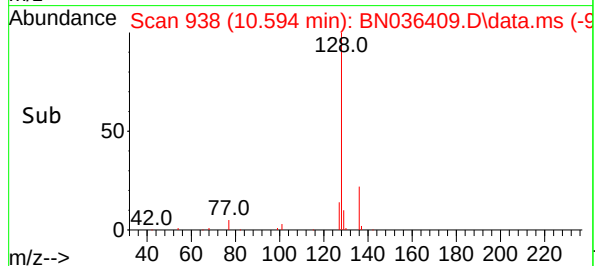
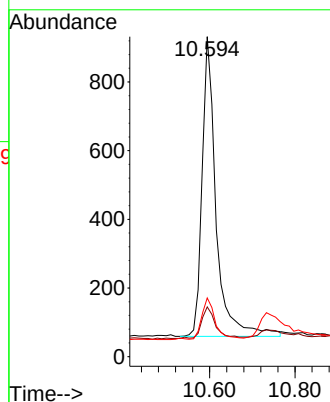
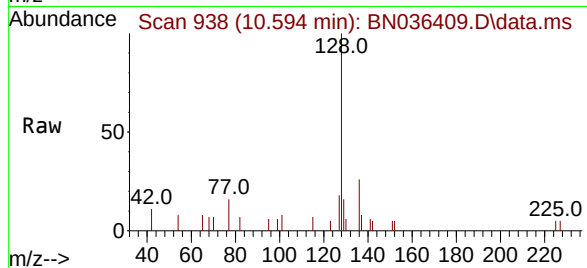
Tgt Ion:128 Resp: 1990

Ion Ratio Lower Upper

128 100

129 15.6 9.6 14.4#

127 18.3 12.0 18.0#



#10

Hexachlorobutadiene

Concen: 0.089 ng

RT: 10.883 min Scan# 965

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

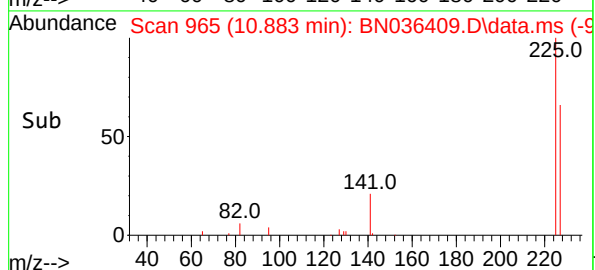
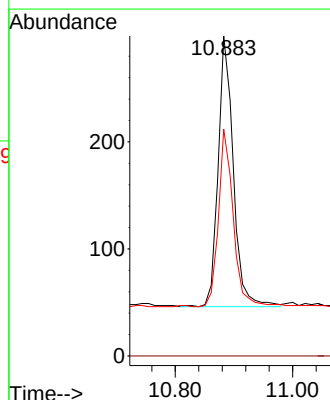
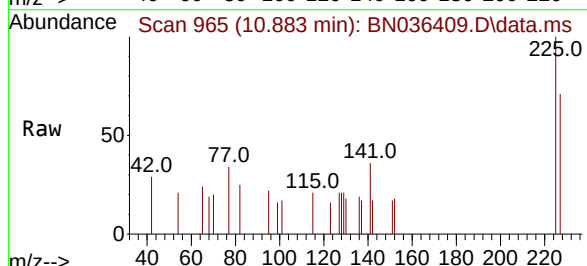
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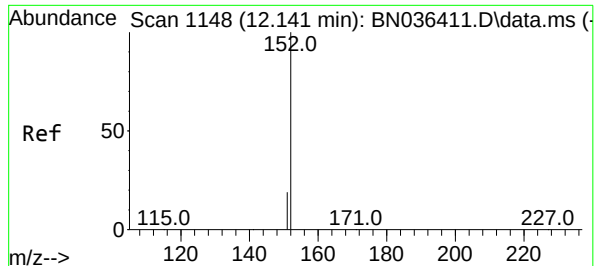
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 50.9 76.3

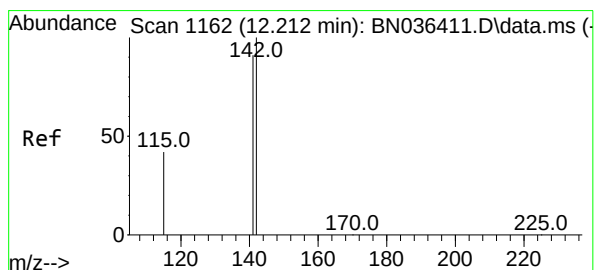
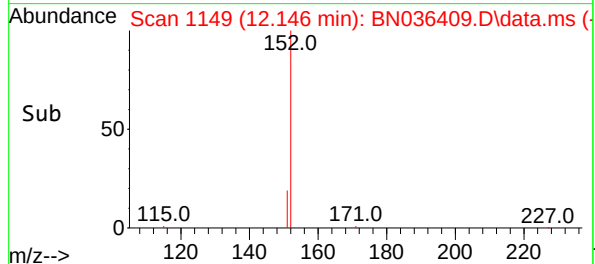
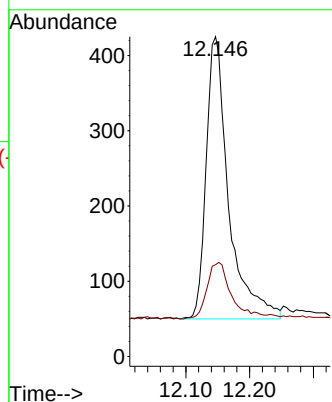
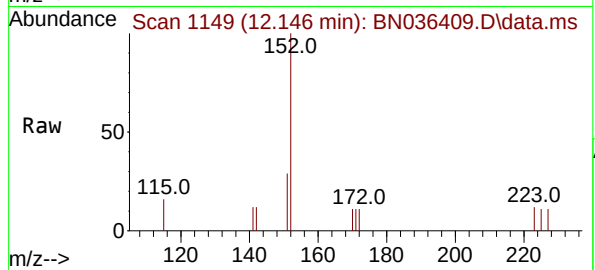




#11
2-Methylnaphthalene-d10
Concen: 0.118 ng
RT: 12.146 min Scan# 1149
Delta R.T. 0.005 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

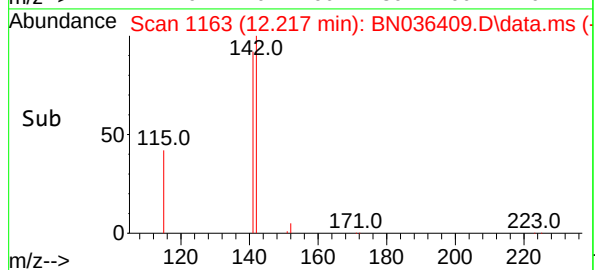
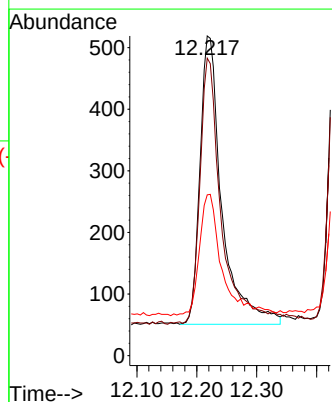
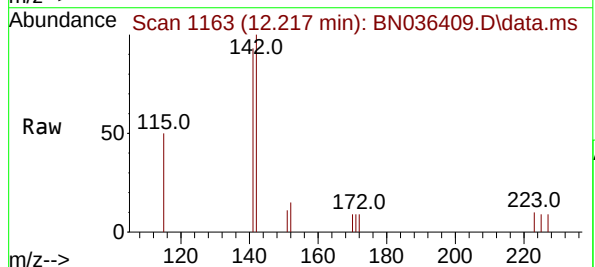
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

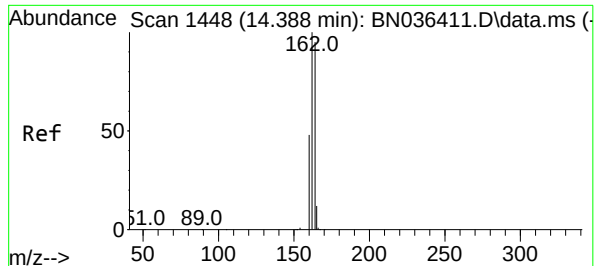
Tgt Ion:152 Resp: 920
Ion Ratio Lower Upper
152 100
151 21.6 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.116 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.005 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:142 Resp: 1185
Ion Ratio Lower Upper
142 100
141 93.1 72.8 109.2
115 50.3 35.5 53.3

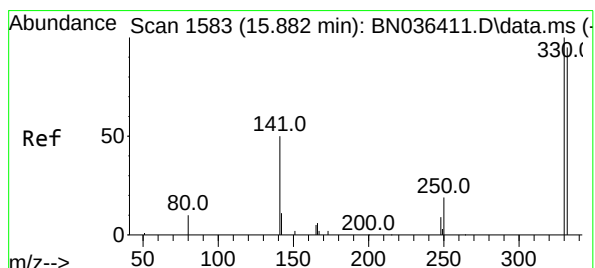
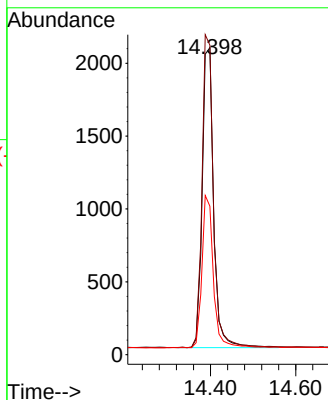
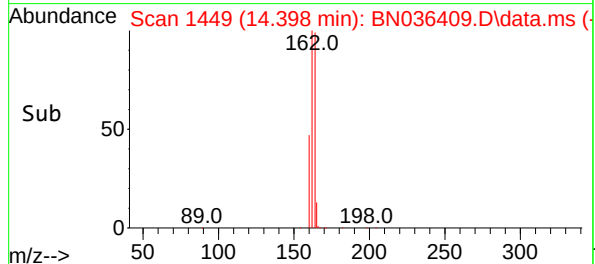
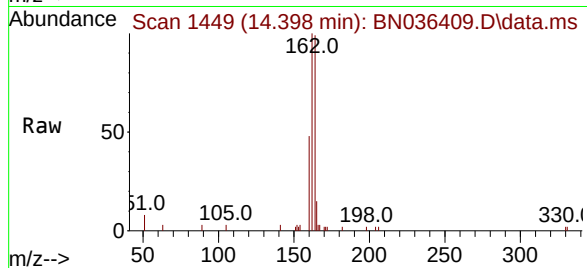




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.398 min Scan# 1448
Delta R.T. 0.011 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

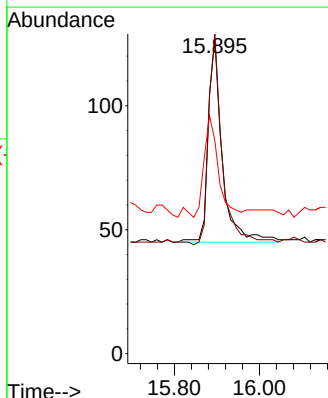
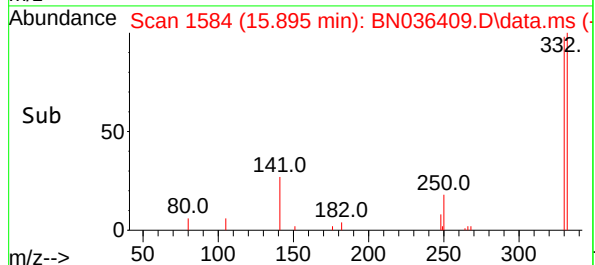
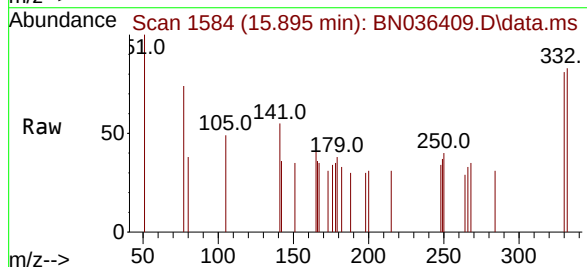
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

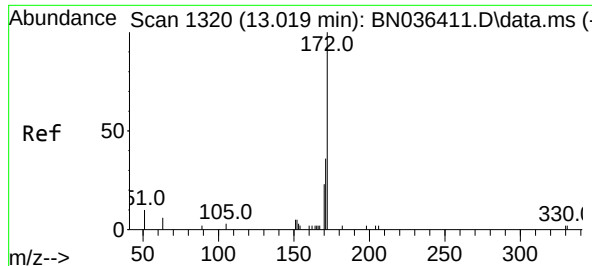
Tgt Ion:164 Resp: 3837
Ion Ratio Lower Upper
164 100
162 100.8 84.1 126.1
160 48.4 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.080 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.012 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:330 Resp: 188
Ion Ratio Lower Upper
330 100
332 101.6 76.6 114.8
141 50.5 37.8 56.8

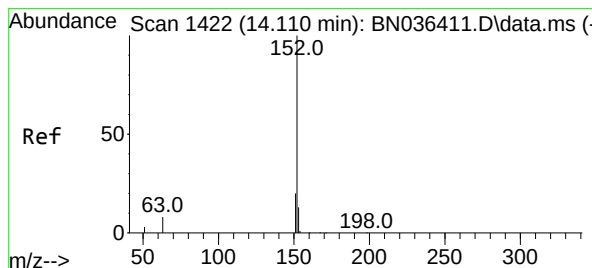
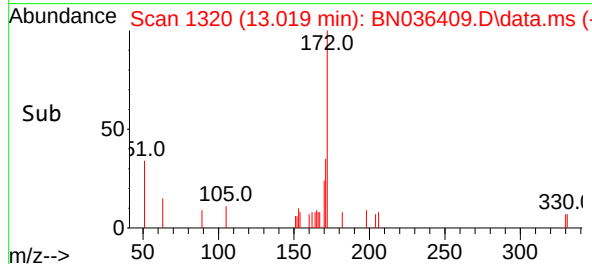
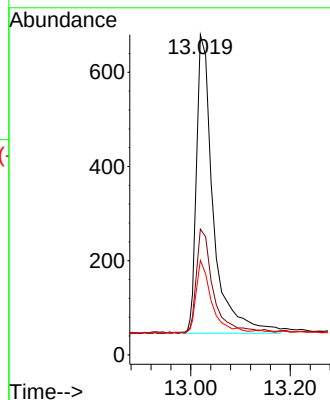
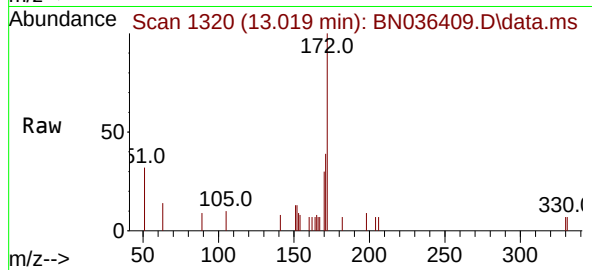




#15
2-Fluorobiphenyl
Concen: 0.083 ng
RT: 13.019 min Scan# 1320
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

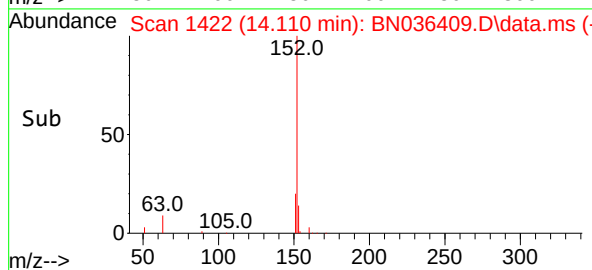
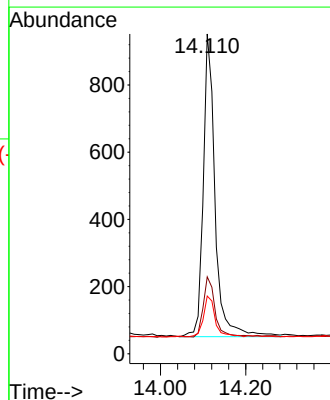
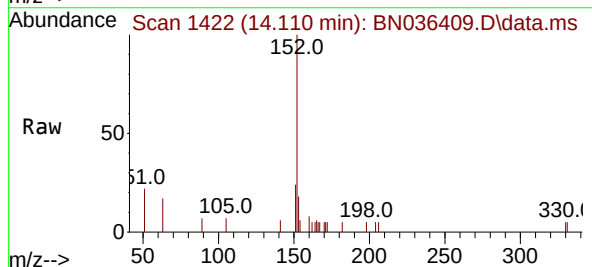
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

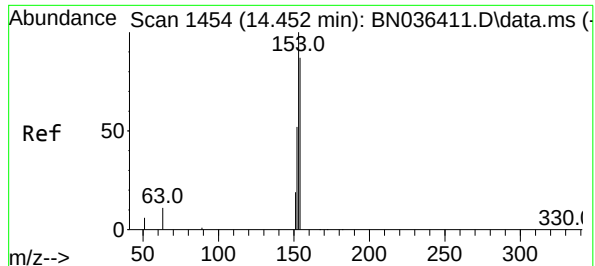
Tgt Ion:172	Resp:	1352
Ion	Ratio	Lower Upper
172	100	
171	39.3	29.6 44.4
170	29.6	19.8 29.6



#16
Acenaphthylene
Concen: 0.098 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:152	Resp:	1733
Ion	Ratio	Lower Upper
152	100	
151	19.4	15.8 23.8
153	13.3	10.2 15.2





#17

Acenaphthene

Concen: 0.098 ng

RT: 14.452 min Scan# 1454

Delta R.T. 0.000 min

Lab File: BN036409.D

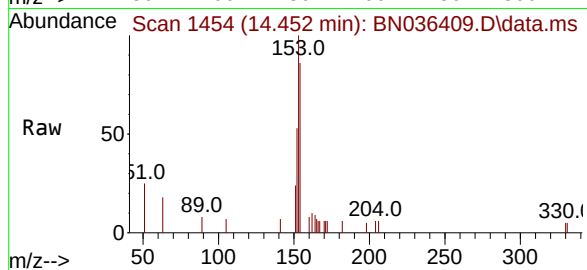
Acq: 10 Feb 2025 12:25

Instrument :

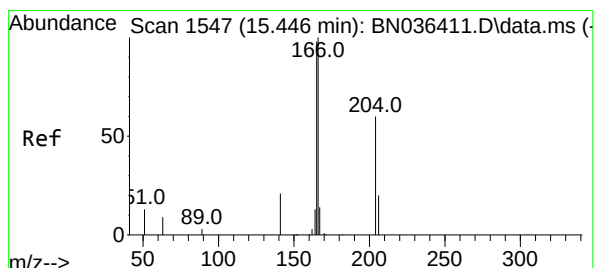
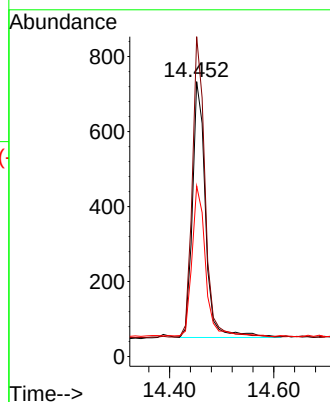
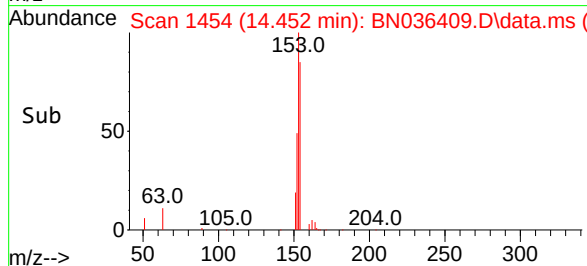
BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:	154	Resp:	1194
Ion	Ratio	Lower	Upper
154	100		
153	114.2	93.3	139.9
152	61.5	48.8	73.2



#18

Fluorene

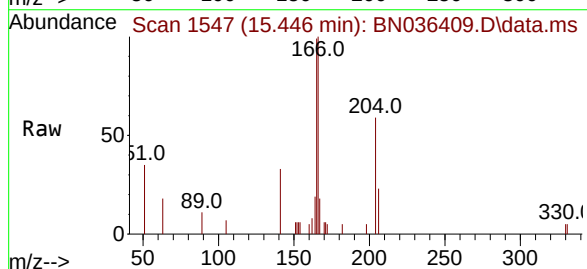
Concen: 0.104 ng

RT: 15.446 min Scan# 1547

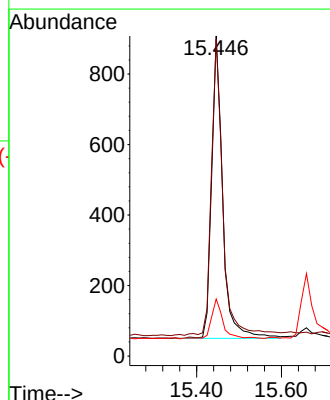
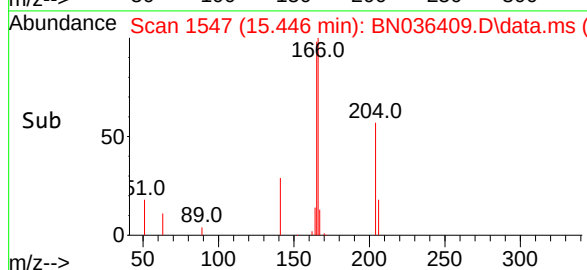
Delta R.T. 0.000 min

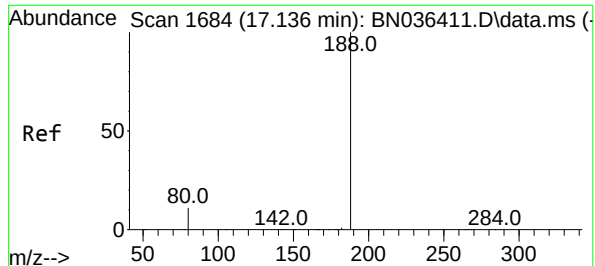
Lab File: BN036409.D

Acq: 10 Feb 2025 12:25



Tgt Ion:	166	Resp:	1627
Ion	Ratio	Lower	Upper
166	100		
165	100.3	79.5	119.3
167	13.0	10.4	15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1684

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

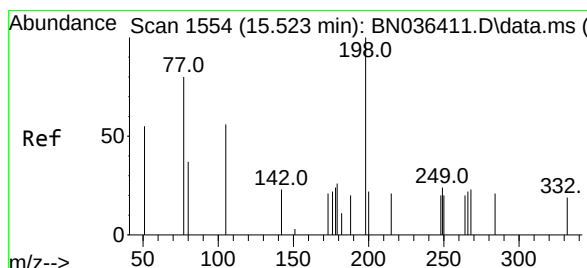
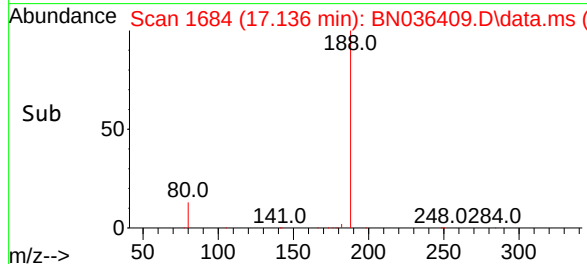
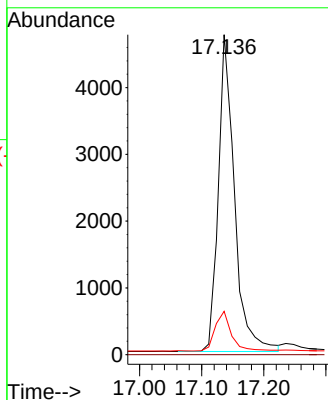
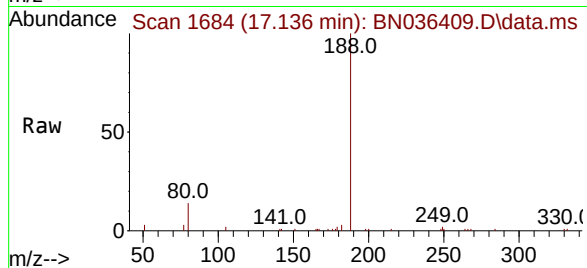
Tgt Ion:188 Resp: 8539

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.6 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.079 ng

RT: 15.535 min Scan# 1555

Delta R.T. 0.012 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

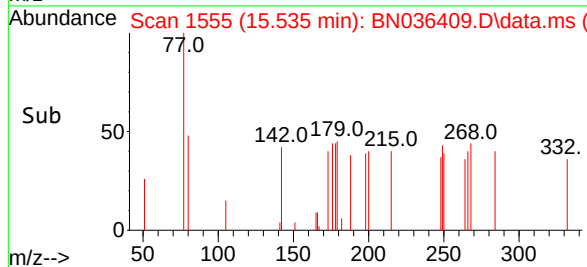
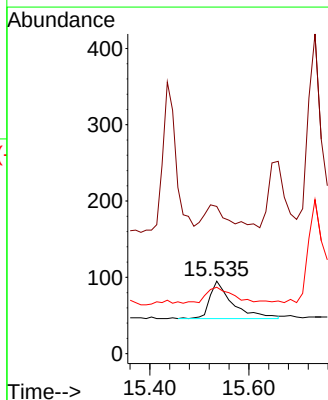
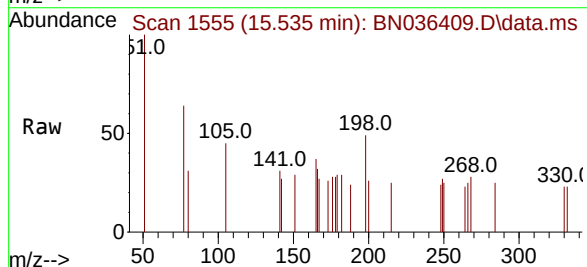
Tgt Ion:198 Resp: 151

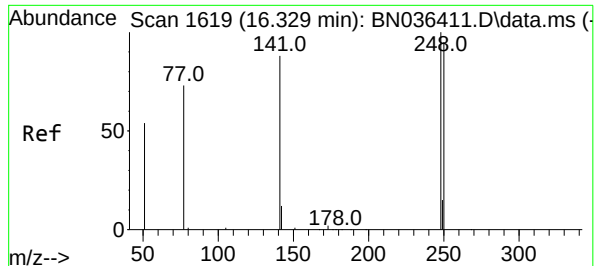
Ion Ratio Lower Upper

198 100

51 203.2 86.6 129.8#

105 91.6 57.5 86.3#

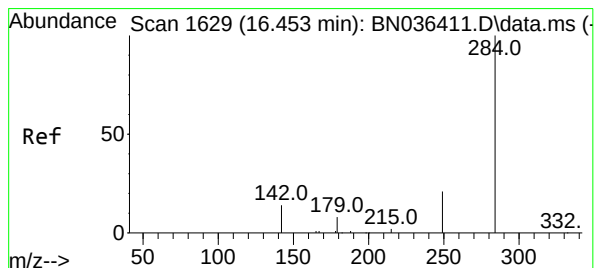
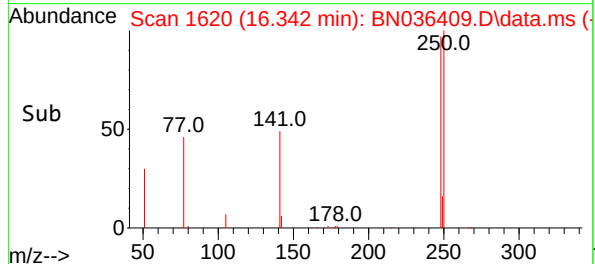
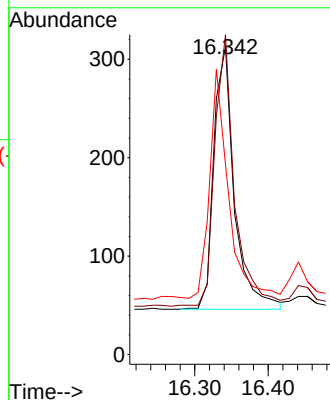
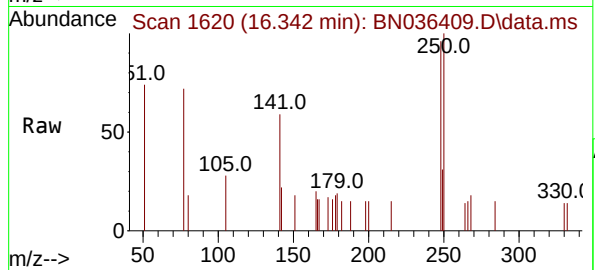




#21
4-Bromophenyl-phenylether
Concen: 0.089 ng
RT: 16.342 min Scan# 1620
Delta R.T. 0.012 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

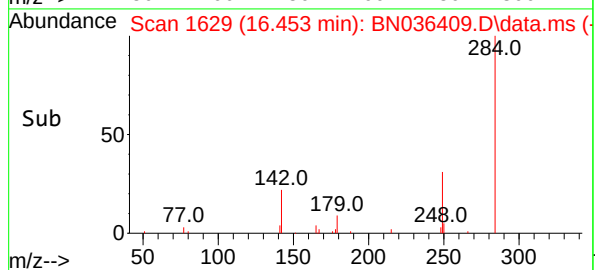
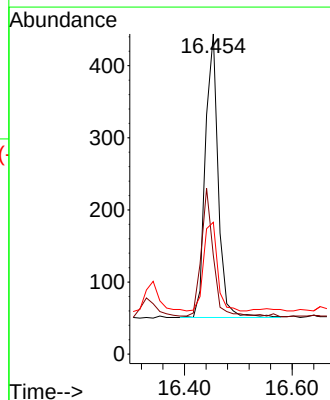
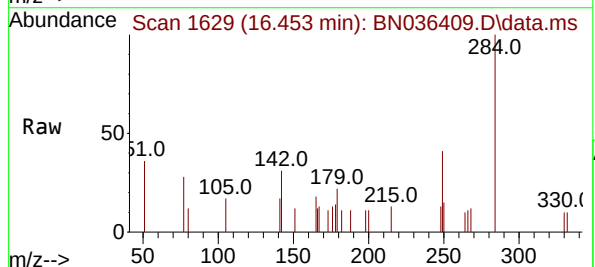
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

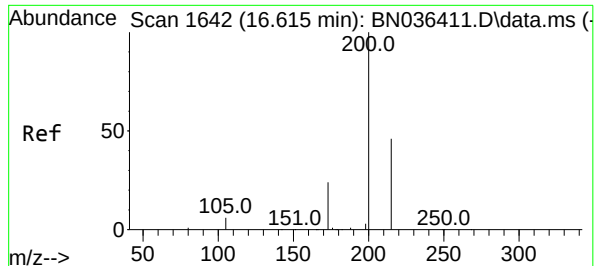
Tgt Ion:248 Resp: 518
Ion Ratio Lower Upper
248 100
250 103.8 76.1 114.1
141 61.7 71.7 107.5#



#22
Hexachlorobenzene
Concen: 0.085 ng
RT: 16.453 min Scan# 1629
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:284 Resp: 651
Ion Ratio Lower Upper
284 100
142 41.5 33.4 50.0
249 35.0 28.6 43.0

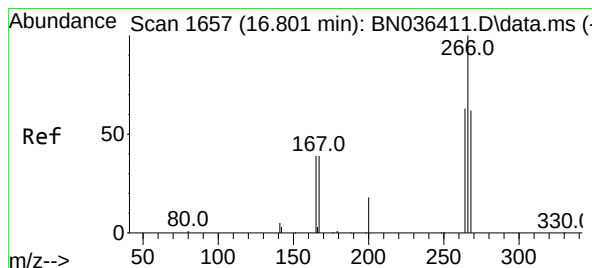
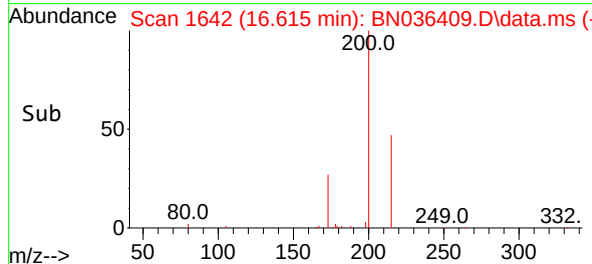
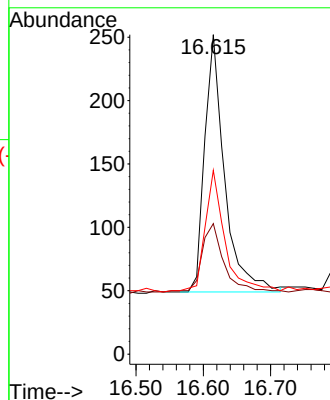
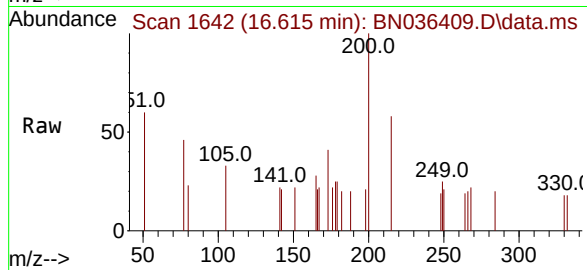




#23
Atrazine
Concen: 0.097 ng
RT: 16.615 min Scan# 1642
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

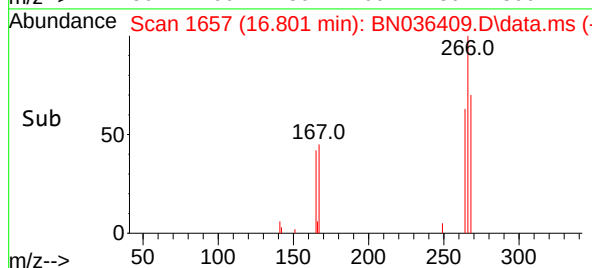
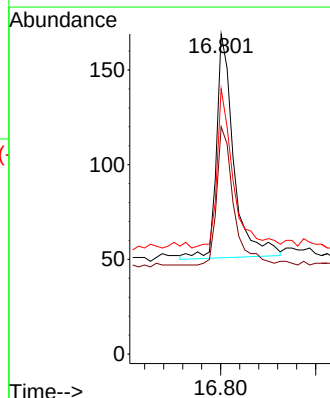
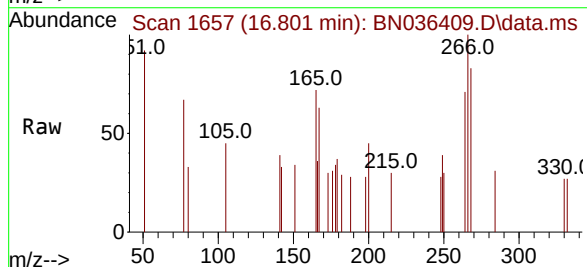
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

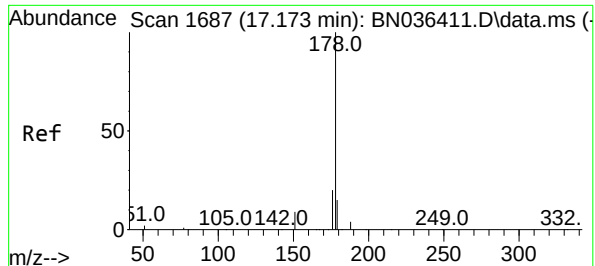
Tgt Ion	Ratio	Lower	Upper
200	100		
173	40.9	23.2	34.8
215	57.5	40.0	60.0



#24
Pentachlorophenol
Concen: 0.089 ng
RT: 16.801 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion	Ratio	Lower	Upper
266	100		
264	60.1	50.6	76.0
268	63.1	51.9	77.9

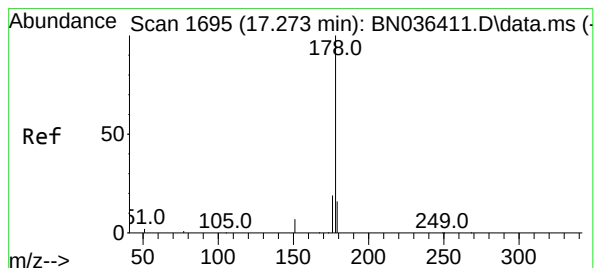
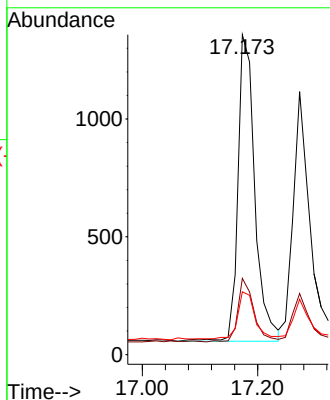
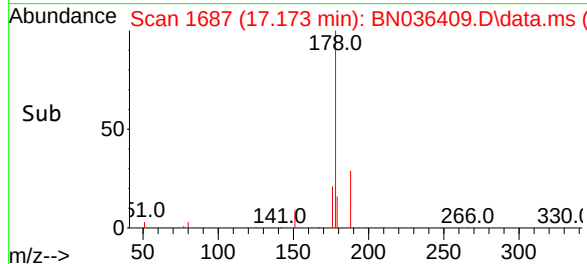
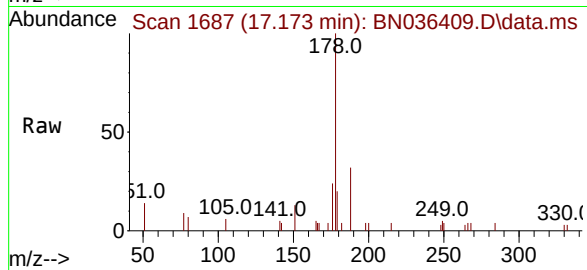




#25
Phenanthrene
Concen: 0.105 ng
RT: 17.173 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

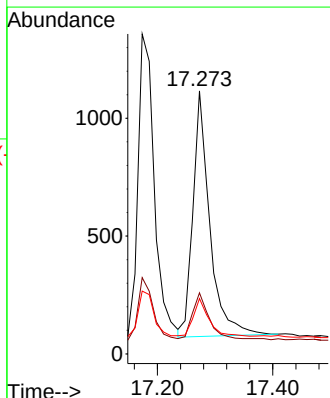
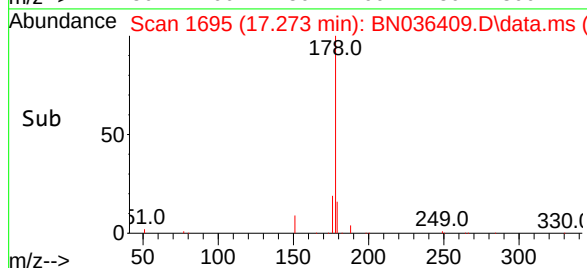
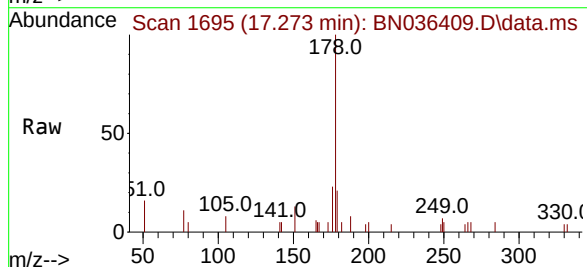
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

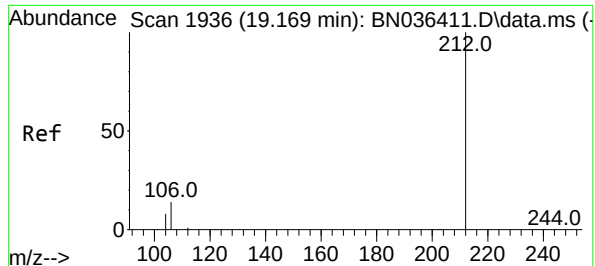
Tgt Ion:178 Resp: 2633
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.5 12.4 18.6



#26
Anthracene
Concen: 0.093 ng
RT: 17.273 min Scan# 1695
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:178 Resp: 2113
Ion Ratio Lower Upper
178 100
176 20.8 14.9 22.3
179 14.6 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.108 ng

RT: 19.169 min Scan# 1936

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

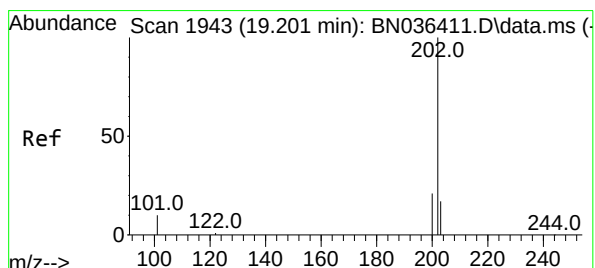
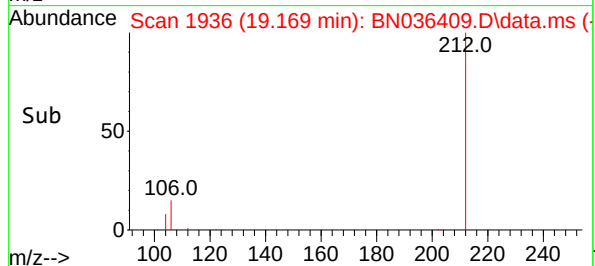
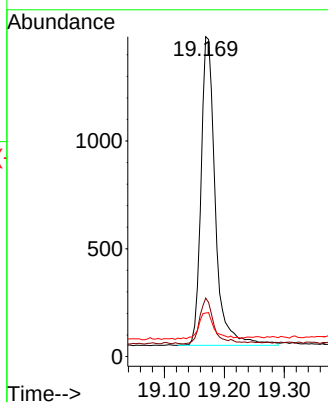
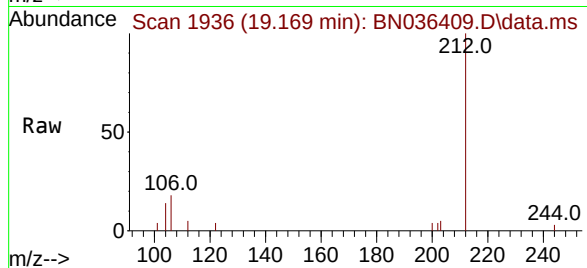
Tgt Ion:212 Resp: 2368

Ion Ratio Lower Upper

212 100

106 14.8 11.5 17.3

104 9.8 7.1 10.7



#28

Fluoranthene

Concen: 0.104 ng

RT: 19.201 min Scan# 1943

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

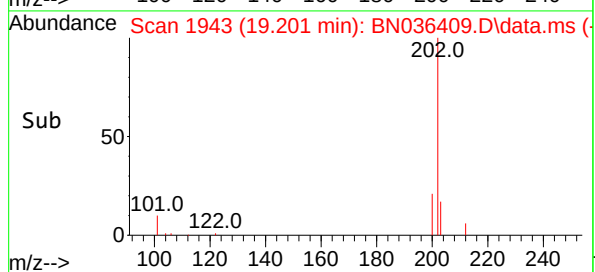
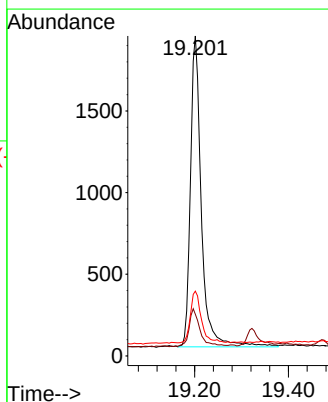
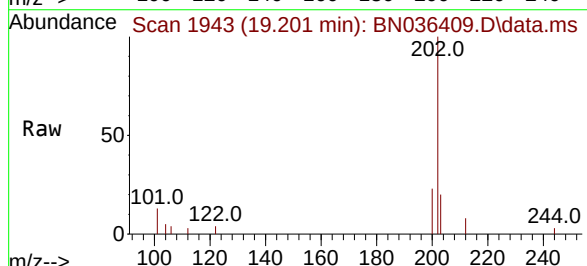
Tgt Ion:202 Resp: 3077

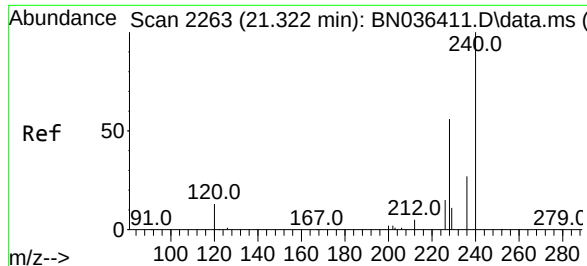
Ion Ratio Lower Upper

202 100

101 12.2 9.2 13.8

203 16.6 13.4 20.0

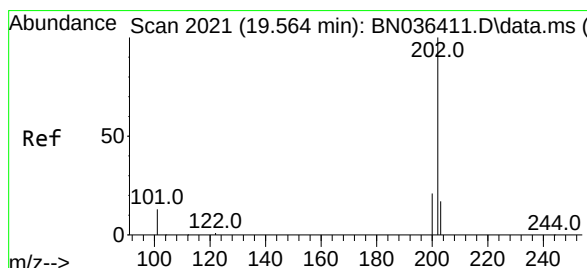
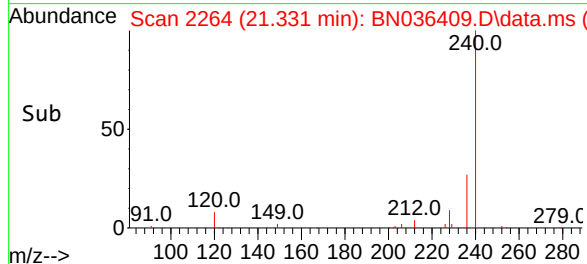
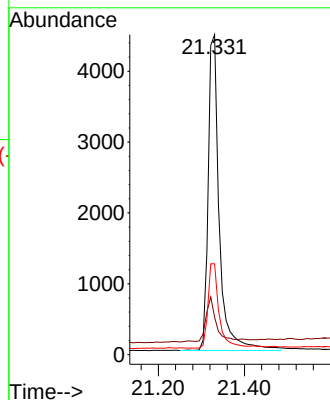
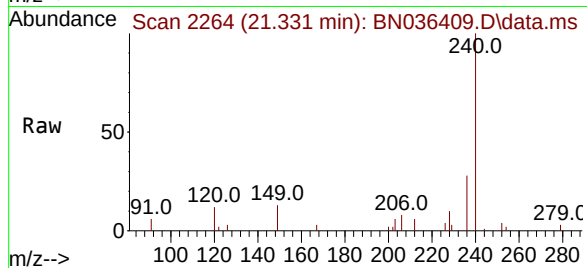




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.331 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

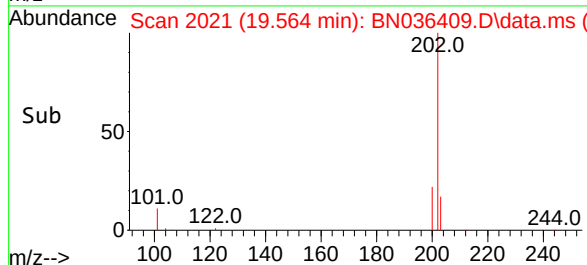
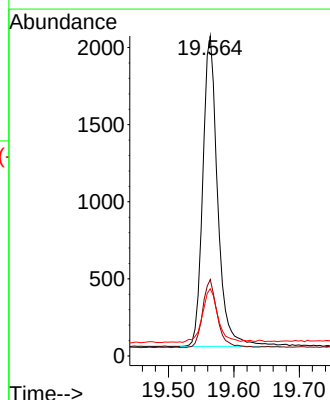
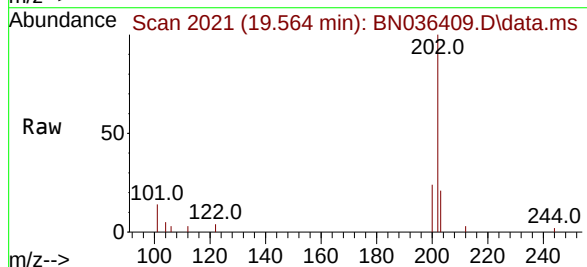
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

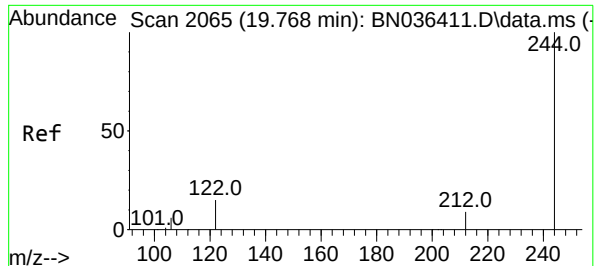
Tgt Ion:240 Resp: 8027
Ion Ratio Lower Upper
240 100
120 11.7 13.3 19.9#
236 28.4 23.0 34.6



#30
Pyrene
Concen: 0.099 ng
RT: 19.564 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

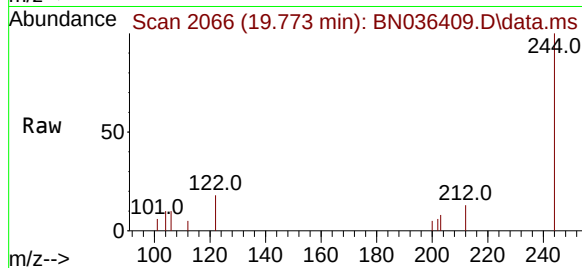
Tgt Ion:202 Resp: 3179
Ion Ratio Lower Upper
202 100
200 21.4 16.9 25.3
203 17.8 13.9 20.9



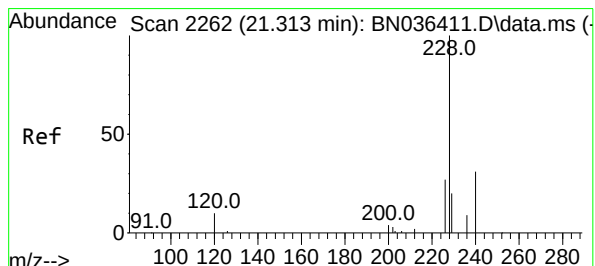
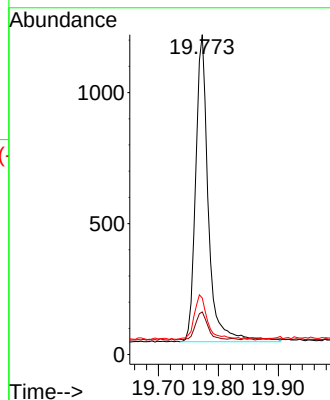
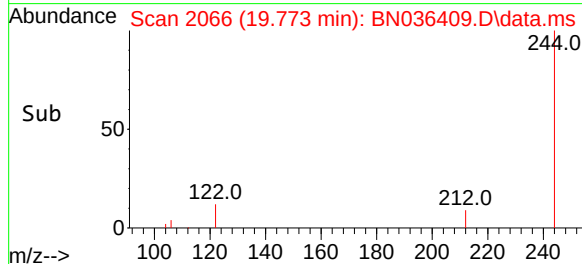


#31
Terphenyl-d14
Concen: 0.104 ng
RT: 19.773 min Scan# 2066
Delta R.T. 0.005 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

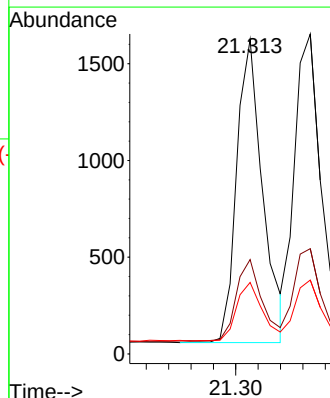
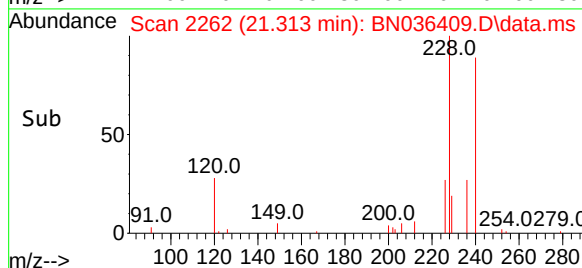
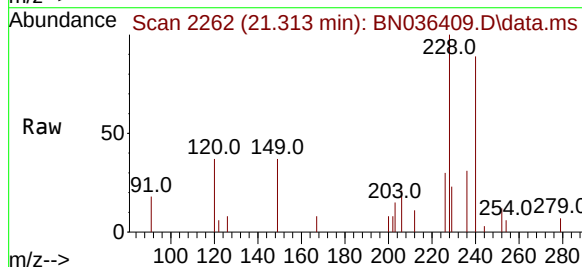


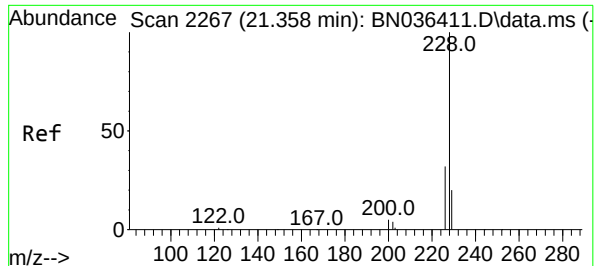
Tgt Ion:244 Resp: 1725
Ion Ratio Lower Upper
244 100
212 13.3 8.1 12.1#
122 17.7 12.8 19.2



#32
Benzo(a)anthracene
Concen: 0.088 ng
RT: 21.313 min Scan# 2262
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:228 Resp: 2523
Ion Ratio Lower Upper
228 100
226 30.0 22.2 33.2
229 22.7 16.5 24.7

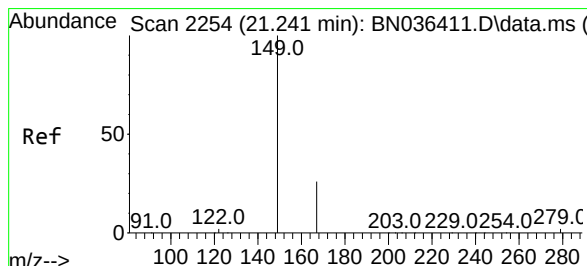
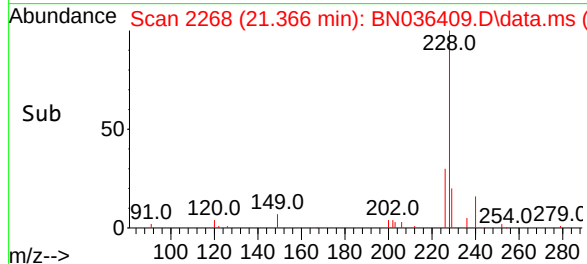
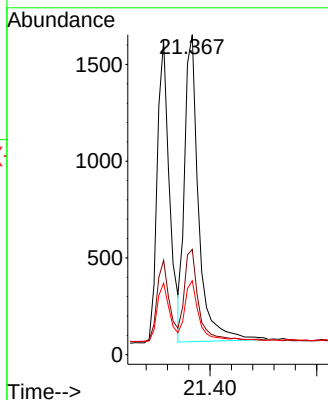
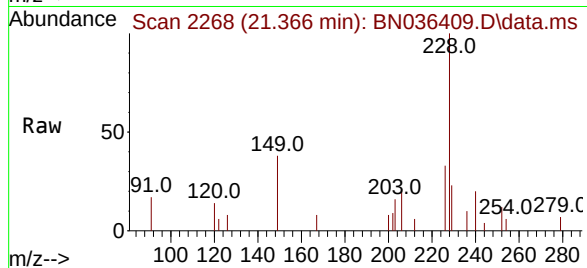




#33
Chrysene
Concen: 0.099 ng
RT: 21.366 min Scan# 2136
Delta R.T. 0.009 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

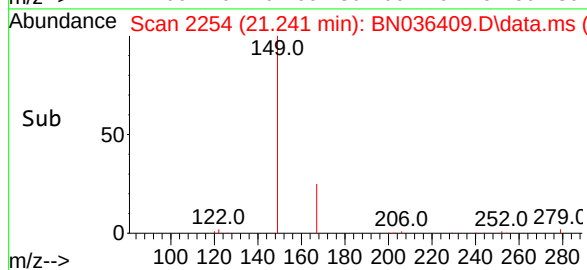
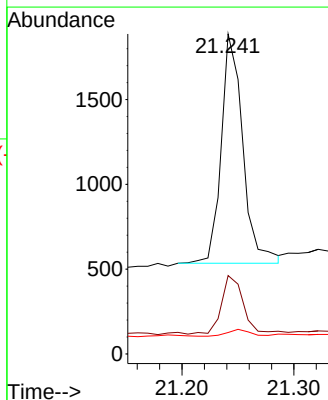
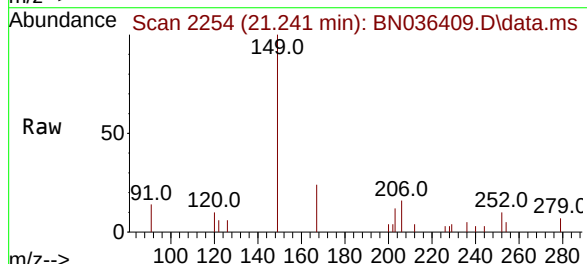
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

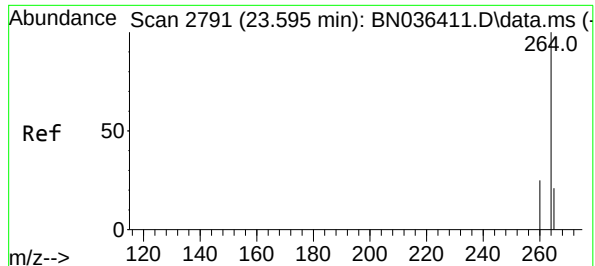
Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.9	25.5	38.3
229	23.1	16.4	24.6



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 21.241 min Scan# 2254
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.2	21.2	31.8
279	3.1	2.7	4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.598 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036409.D

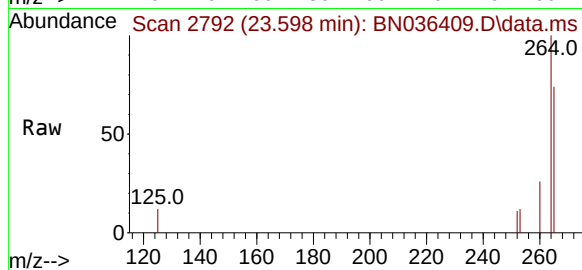
Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



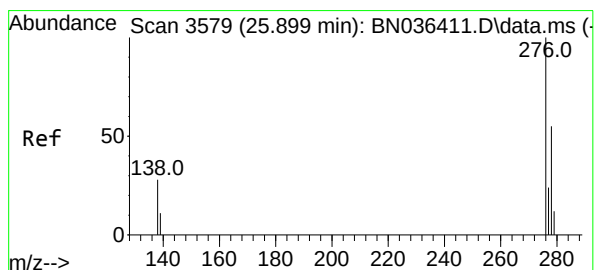
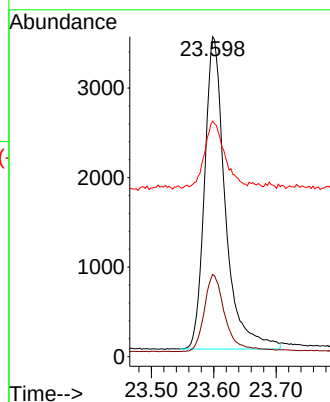
Tgt Ion:264 Resp: 8068

Ion Ratio Lower Upper

264 100

260 25.7 20.9 31.3

265 73.6 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.075 ng

RT: 25.911 min Scan# 3583

Delta R.T. 0.012 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

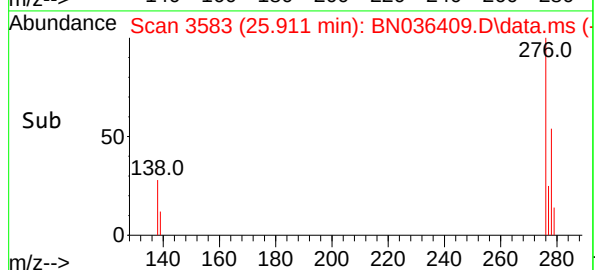
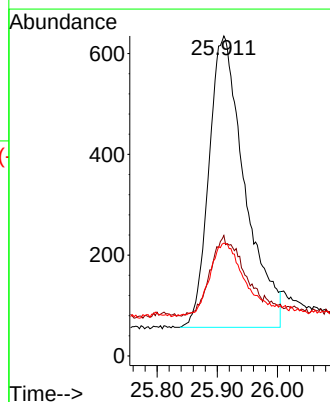
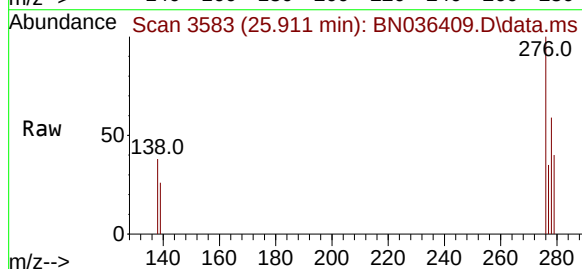
Tgt Ion:276 Resp: 2385

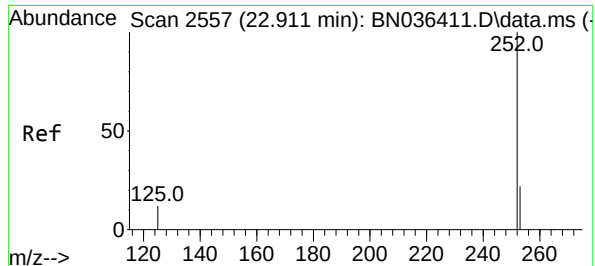
Ion Ratio Lower Upper

276 100

138 25.9 22.2 33.2

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.083 ng

RT: 22.917 min Scan# 2557

Delta R.T. 0.006 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

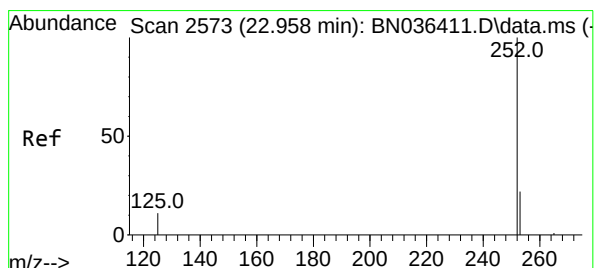
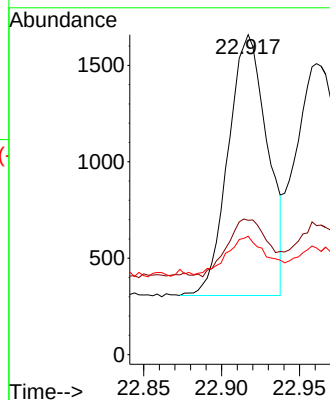
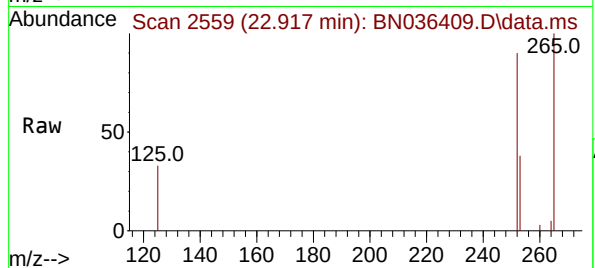
Tgt Ion:252 Resp: 2367

Ion Ratio Lower Upper

252 100

253 42.0 21.9 32.9#

125 37.0 15.0 22.6#



#38

Benzo(k)fluoranthene

Concen: 0.087 ng

RT: 22.961 min Scan# 2574

Delta R.T. 0.003 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

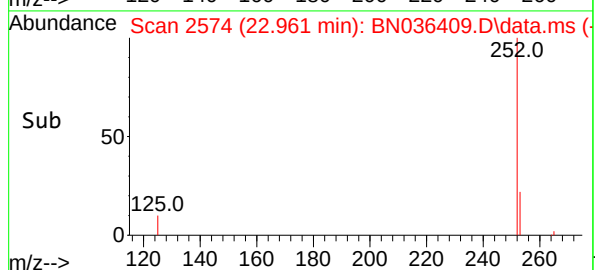
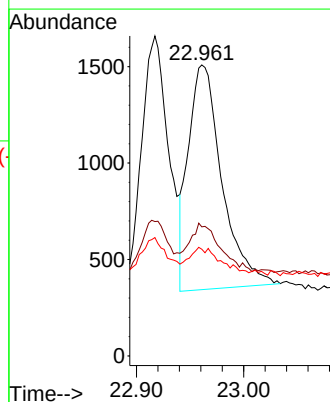
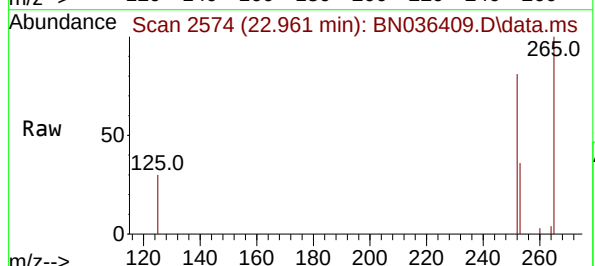
Tgt Ion:252 Resp: 2537

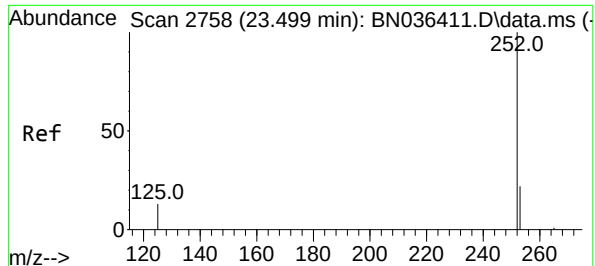
Ion Ratio Lower Upper

252 100

253 44.3 22.2 33.4#

125 36.6 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 0.089 ng

RT: 23.499 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

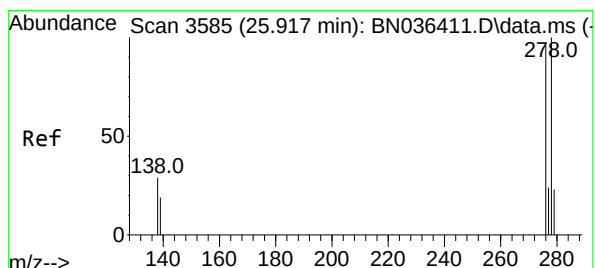
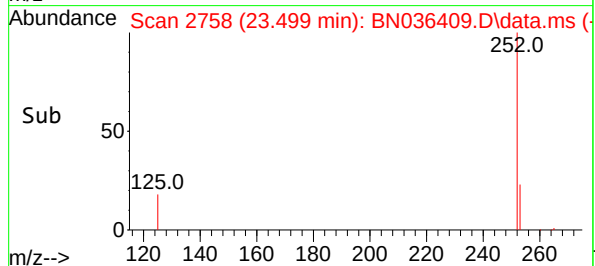
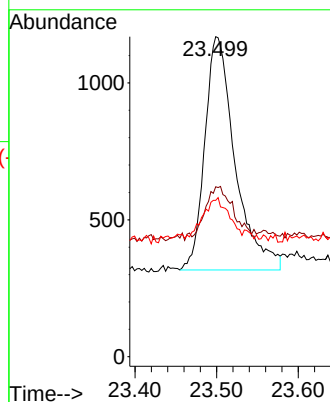
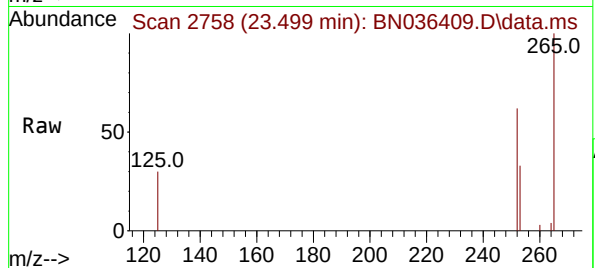
Tgt Ion:252 Resp: 2200

Ion Ratio Lower Upper

252 100

253 53.1 24.4 36.6#

125 48.8 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.073 ng

RT: 25.928 min Scan# 3589

Delta R.T. 0.012 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

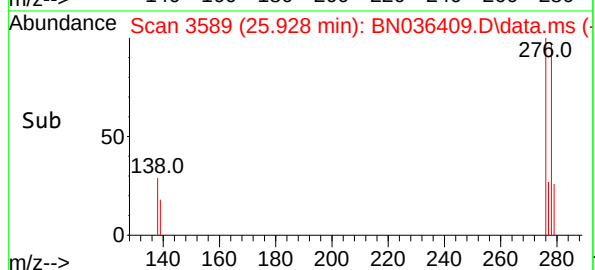
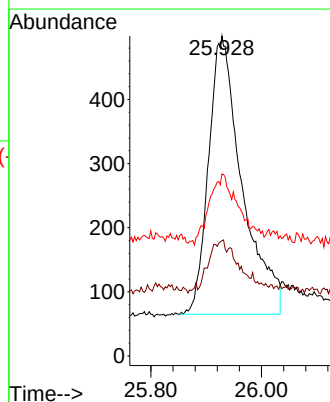
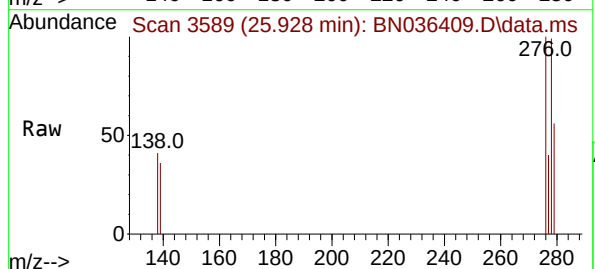
Tgt Ion:278 Resp: 1827

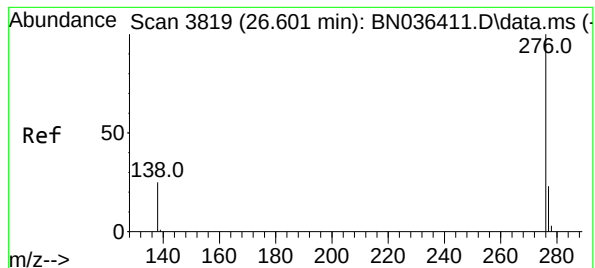
Ion Ratio Lower Upper

278 100

139 36.1 18.5 27.7#

279 56.9 24.8 37.2#





#41

Benzo(g,h,i)perylene

Concen: 0.083 ng

RT: 26.607 min Scan# 3819

Delta R.T. 0.006 min

Lab File: BN036409.D

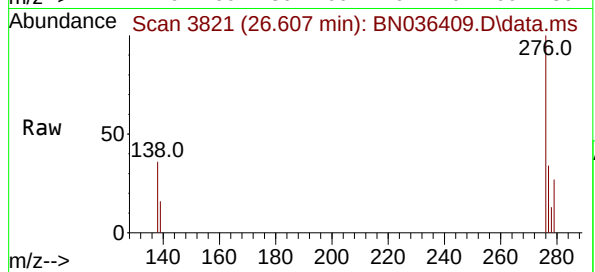
Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



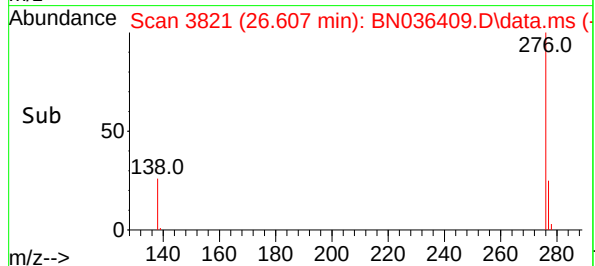
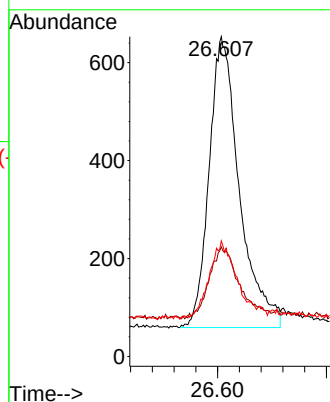
Tgt Ion:276 Resp: 2299

Ion Ratio Lower Upper

276 100

277 34.3 20.7 31.1#

138 36.1 21.8 32.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036410.D
 Acq On : 10 Feb 2025 13:01
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Feb 11 00:35:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

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

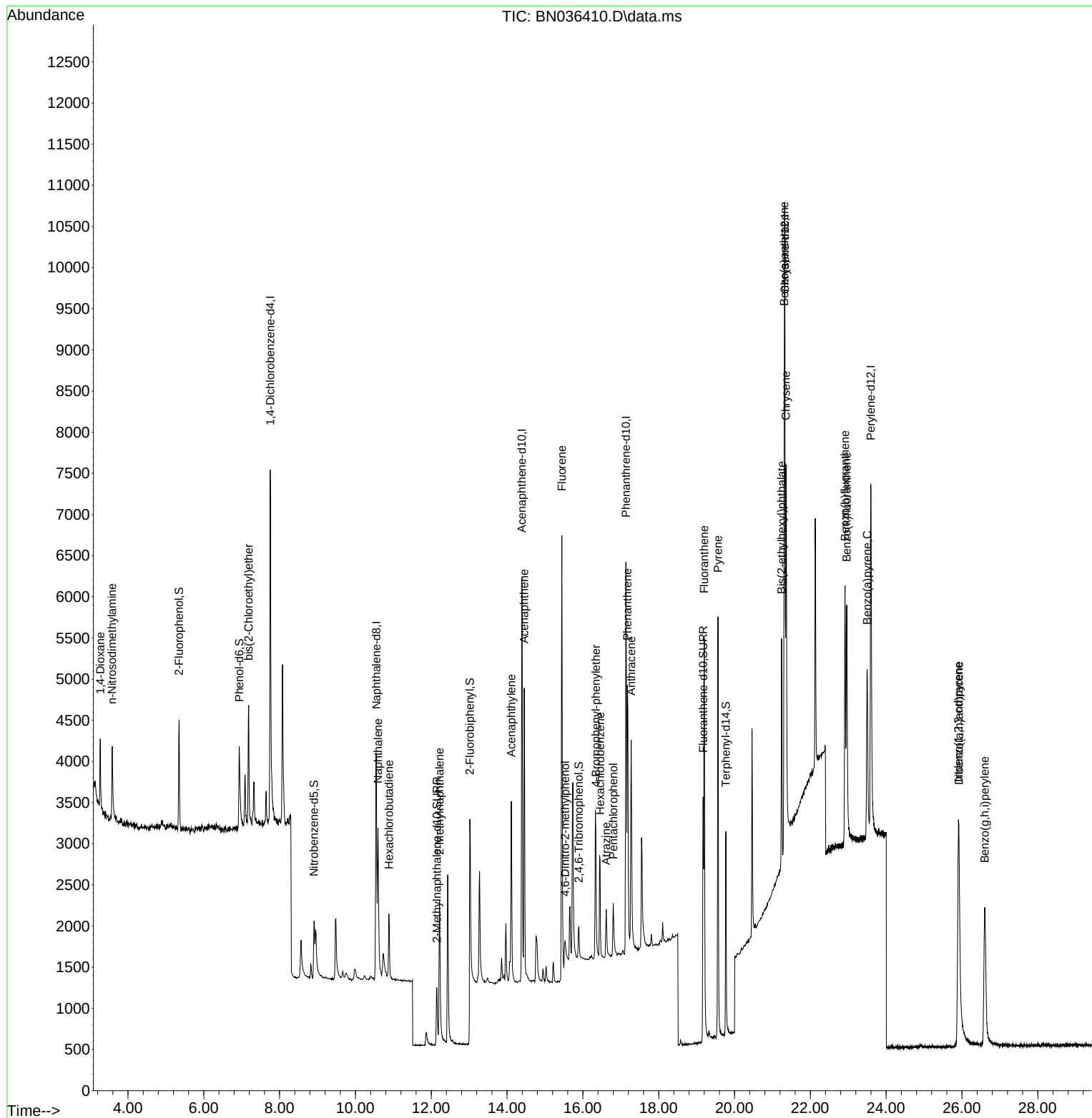
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2157	0.400	ng	0.00
7) Naphthalene-d8	10.551	136	4791	0.400	ng	# 0.01
13) Acenaphthene-d10	14.387	164	3185	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	7435	0.400	ng	0.00
29) Chrysene-d12	21.331	240	6531	0.400	ng	# 0.00
35) Perylene-d12	23.595	264	6918	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	1029	0.187	ng	0.00
5) Phenol-d6	6.937	99	1086	0.170	ng	0.00
8) Nitrobenzene-d5	8.907	82	869	0.195	ng	0.00
11) 2-Methylnaphthalene-d10	12.146	152	1397	0.213	ng	0.00
14) 2,4,6-Tribromophenol	15.895	330	289	0.147	ng	0.01
15) 2-Fluorobiphenyl	13.019	172	2214	0.163	ng	0.00
27) Fluoranthene-d10	19.173	212	3879	0.203	ng	0.00
31) Terphenyl-d14	19.773	244	2765	0.204	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.268	88	471	0.198	ng	97
3) n-Nitrosodimethylamine	3.579	42	840	0.196	ng	# 98
6) bis(2-Chloroethyl)ether	7.183	93	1154	0.217	ng	98
9) Naphthalene	10.594	128	2733	0.200	ng	# 95
10) Hexachlorobutadiene	10.882	225	702	0.164	ng	# 99
12) 2-Methylnaphthalene	12.217	142	1706	0.198	ng	97
16) Acenaphthylene	14.110	152	2654	0.180	ng	98
17) Acenaphthene	14.452	154	1791	0.177	ng	98
18) Fluorene	15.446	166	2596	0.200	ng	100
20) 4,6-Dinitro-2-methylph...	15.535	198	248	0.149	ng	# 85
21) 4-Bromophenyl-phenylether	16.342	248	844	0.166	ng	# 80
22) Hexachlorobenzene	16.453	284	1101	0.166	ng	97
23) Atrazine	16.615	200	705	0.188	ng	95
24) Pentachlorophenol	16.801	266	463	0.159	ng	95
25) Phenanthrene	17.173	178	4051	0.186	ng	100
26) Anthracene	17.273	178	3467	0.175	ng	98
28) Fluoranthene	19.201	202	4918	0.190	ng	100
30) Pyrene	19.564	202	5119	0.196	ng	100
32) Benzo(a)anthracene	21.313	228	4166	0.180	ng	98
33) Chrysene	21.357	228	4754	0.200	ng	99
34) Bis(2-ethylhexyl)phtha...	21.241	149	2858	0.221	ng	100
36) Indeno(1,2,3-cd)pyrene	25.905	276	4459	0.164	ng	99
37) Benzo(b)fluoranthene	22.914	252	4220	0.172	ng	# 85
38) Benzo(k)fluoranthene	22.958	252	4335	0.173	ng	# 85
39) Benzo(a)pyrene	23.499	252	3740	0.177	ng	# 80
40) Dibenzo(a,h)anthracene	25.919	278	3533	0.164	ng	# 86
41) Benzo(g,h,i)perylene	26.601	276	4192	0.177	ng	93

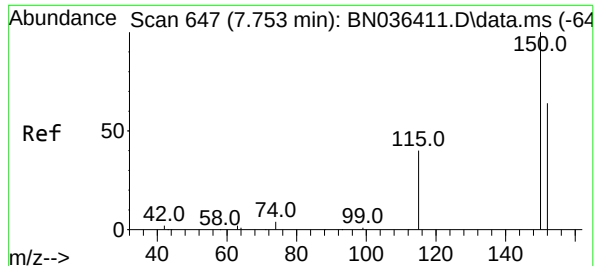
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036410.D
Acq On : 10 Feb 2025 13:01
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

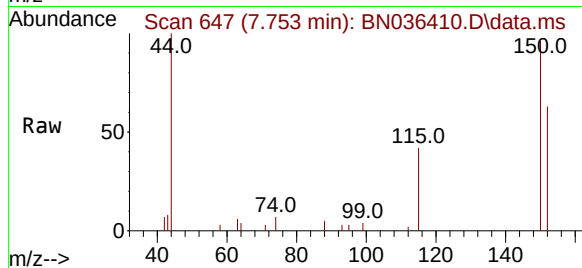
Quant Time: Feb 11 00:35:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration



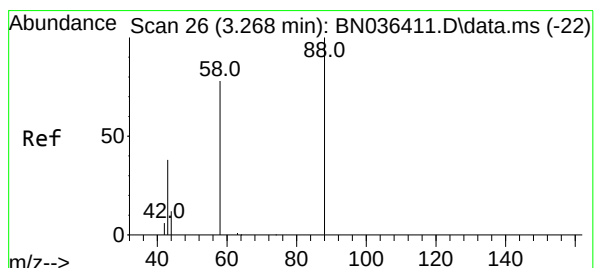
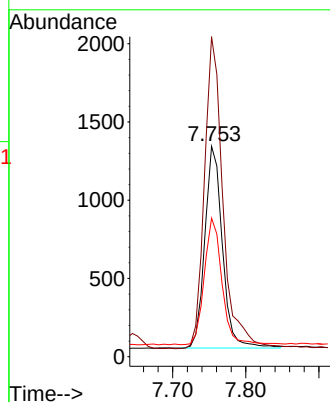
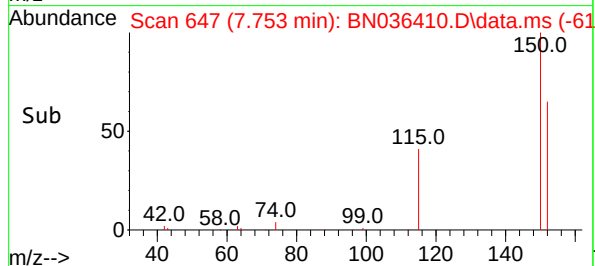


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

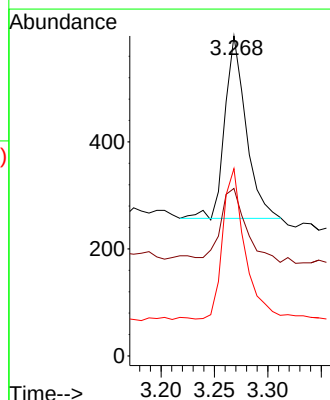
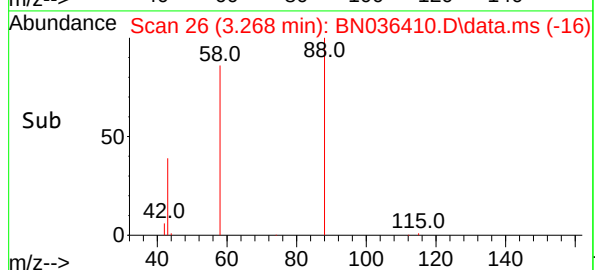
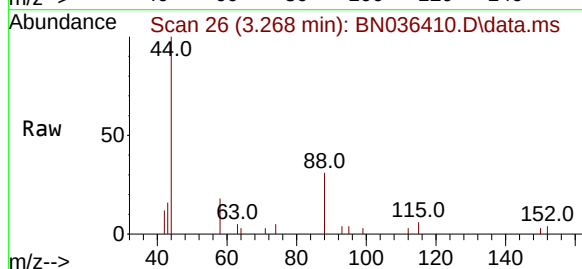


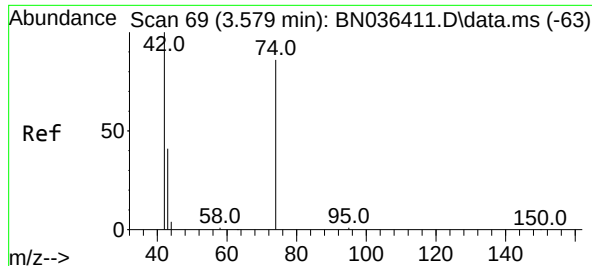
Tgt Ion:152 Resp: 2157
Ion Ratio Lower Upper
152 100
150 152.0 123.7 185.5
115 65.9 52.5 78.7



#2
1,4-Dioxane
Concen: 0.198 ng
RT: 3.268 min Scan# 26
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion: 88 Resp: 471
Ion Ratio Lower Upper
88 100
43 48.2 33.7 50.5
58 85.8 68.9 103.3

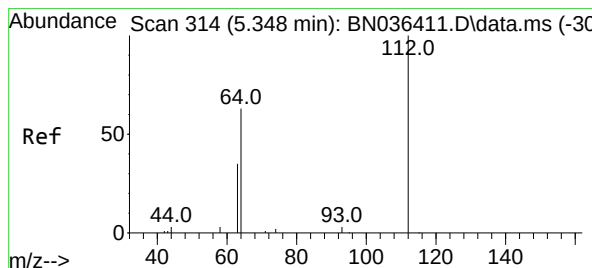
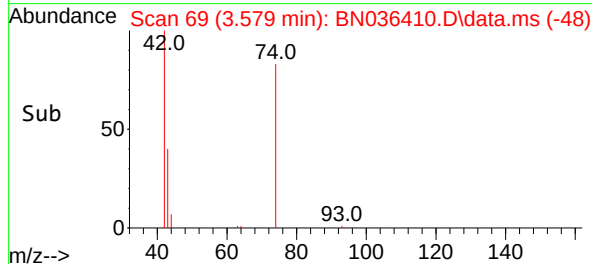
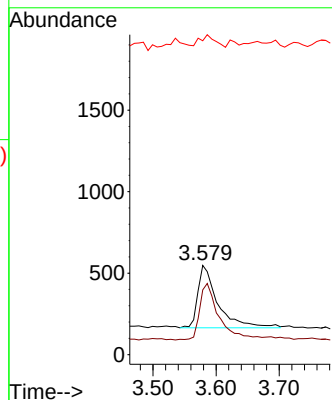
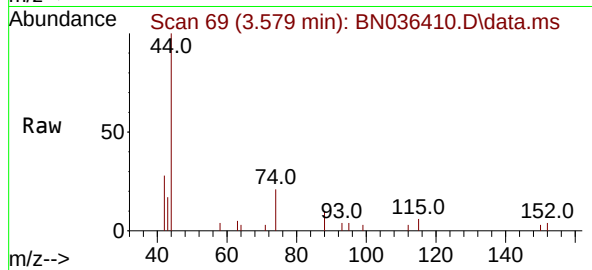




#3
n-Nitrosodimethylamine
Concen: 0.196 ng
RT: 3.579 min Scan# 69
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

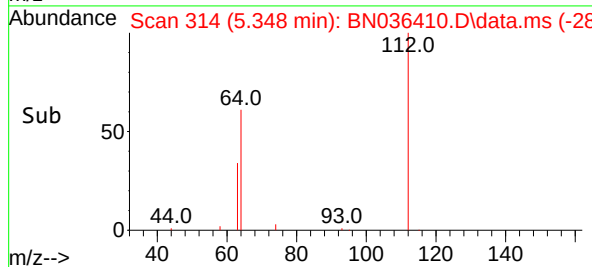
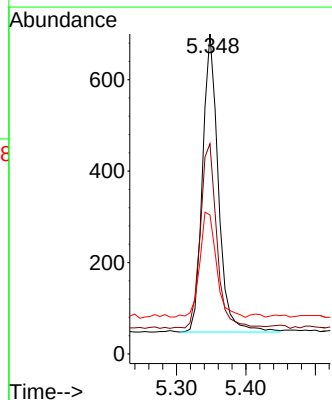
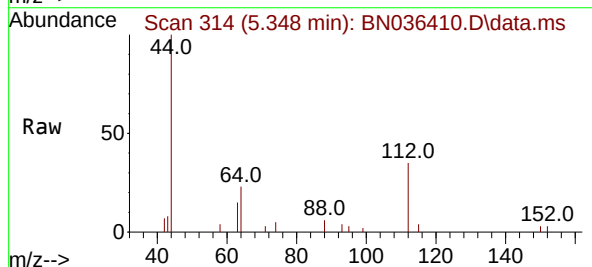
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

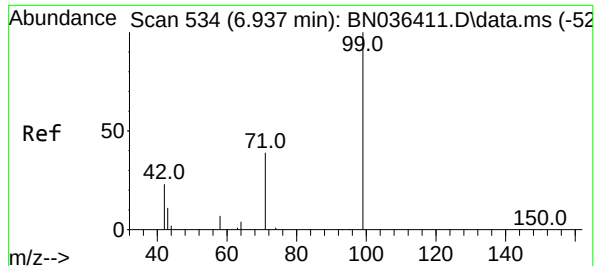
Tgt Ion: 42 Resp: 840
Ion Ratio Lower Upper
42 100
74 90.6 71.8 107.6
44 14.5 7.8 11.6#



#4
2-Fluorophenol
Concen: 0.187 ng
RT: 5.348 min Scan# 314
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion: 112 Resp: 1029
Ion Ratio Lower Upper
112 100
64 64.8 53.4 80.0
63 37.2 30.3 45.5

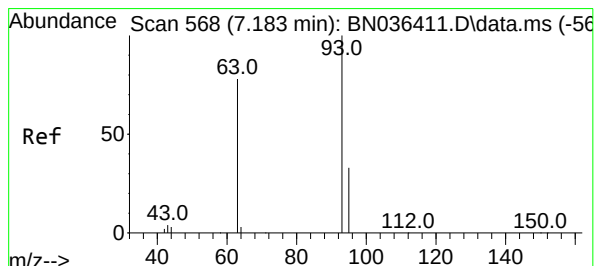
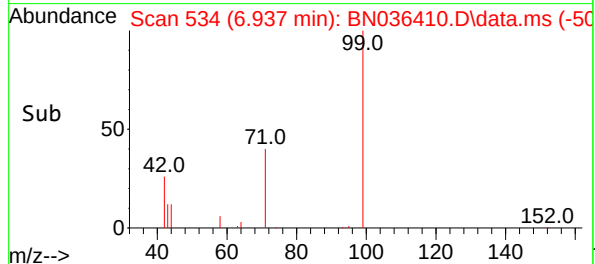
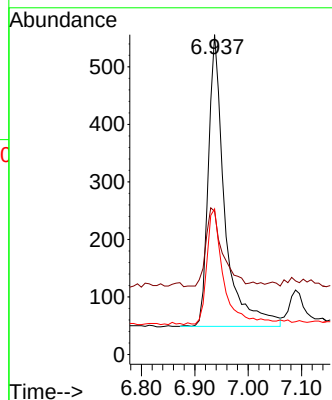
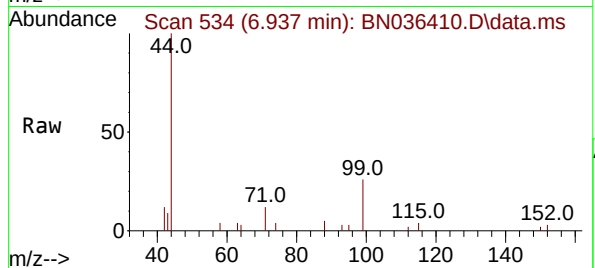




#5
Phenol-d6
Concen: 0.170 ng
RT: 6.937 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

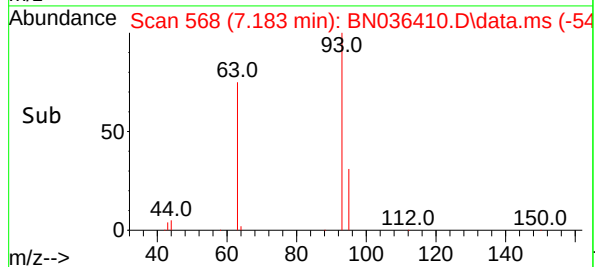
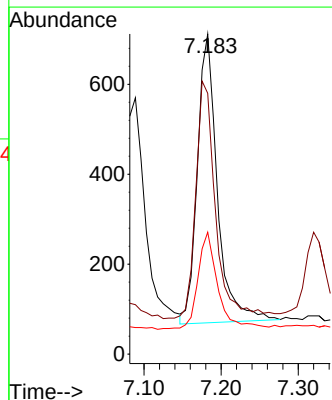
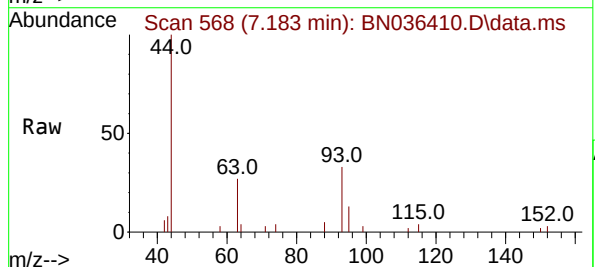
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

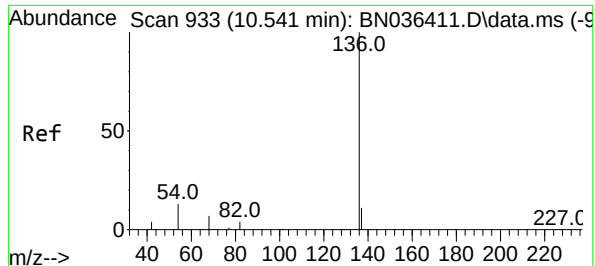
Tgt Ion: 99 Resp: 1086
Ion Ratio Lower Upper
99 100
42 26.8 21.7 32.5
71 40.7 32.6 49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.217 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion: 93 Resp: 1154
Ion Ratio Lower Upper
93 100
63 81.6 66.3 99.5
95 34.1 26.2 39.4

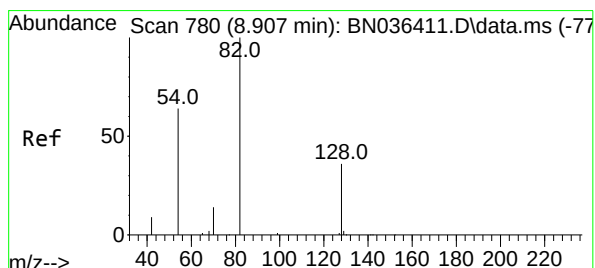
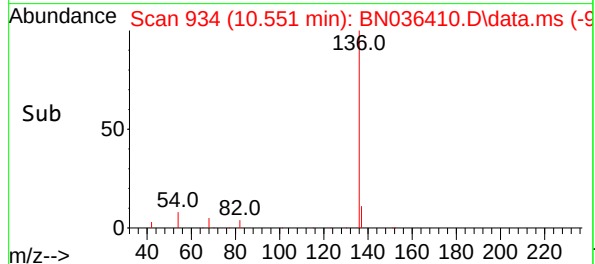
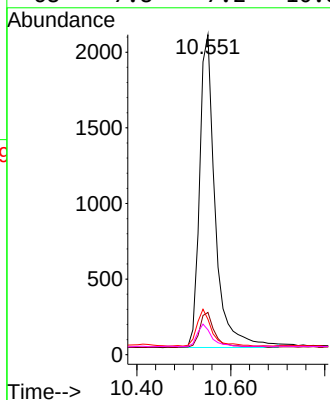
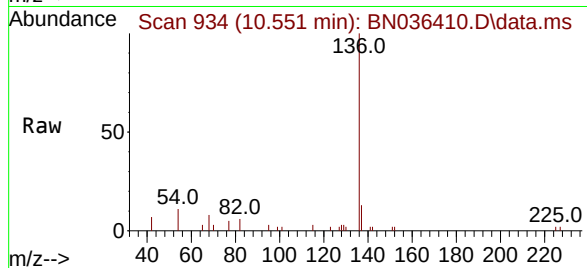




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.551 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

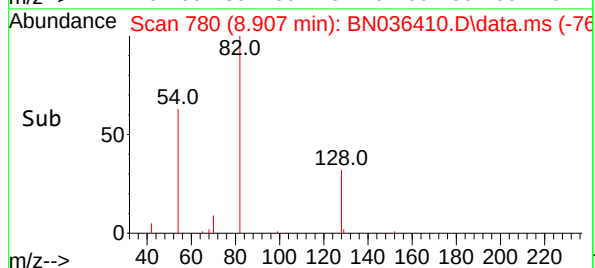
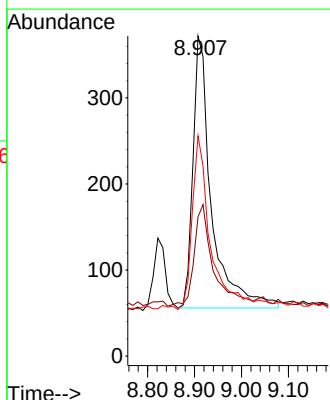
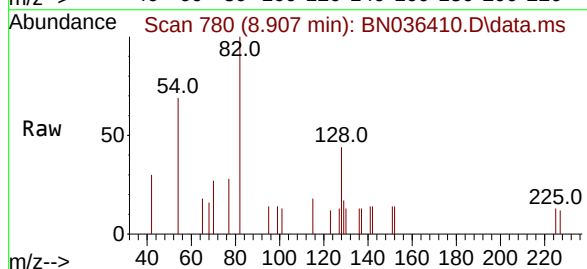
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

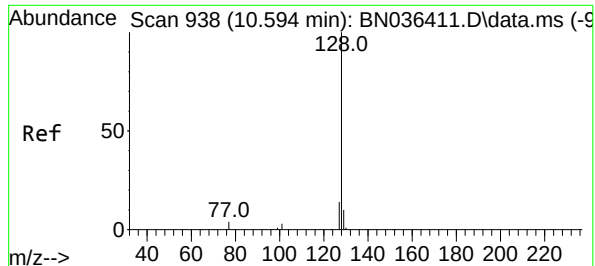
Tgt Ion:	136	Resp:	4791
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.1	15.1
54	11.1	11.8	17.6#
68	7.8	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.195 ng
RT: 8.907 min Scan# 780
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:	82	Resp:	869
Ion	Ratio	Lower	Upper
82	100		
128	43.5	31.9	47.9
54	68.8	53.1	79.7

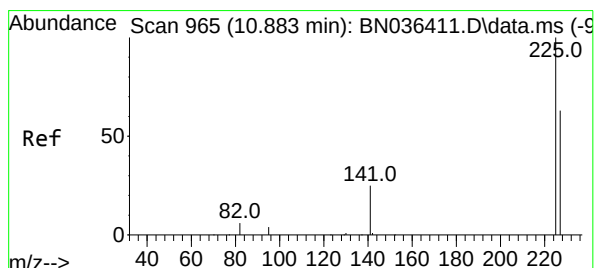
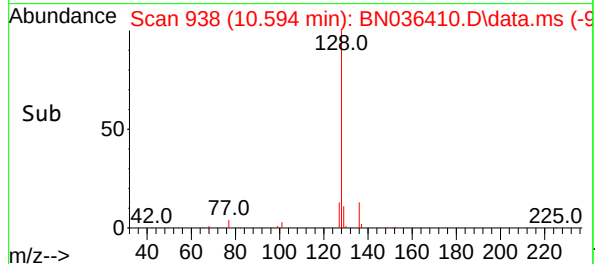
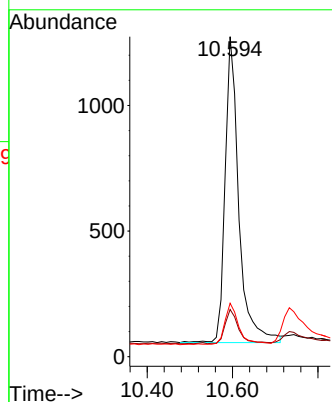
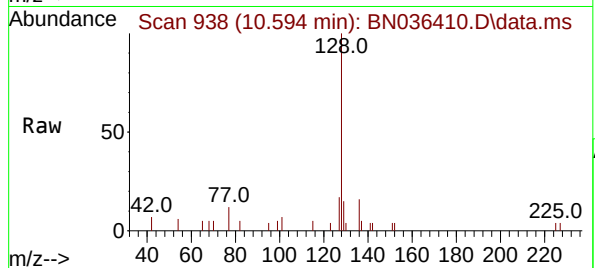




#9
Naphthalene
Concen: 0.200 ng
RT: 10.594 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

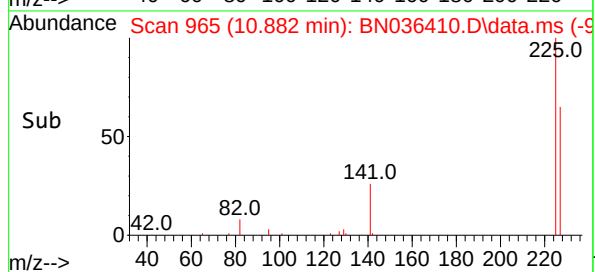
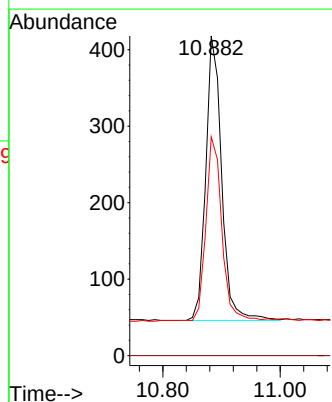
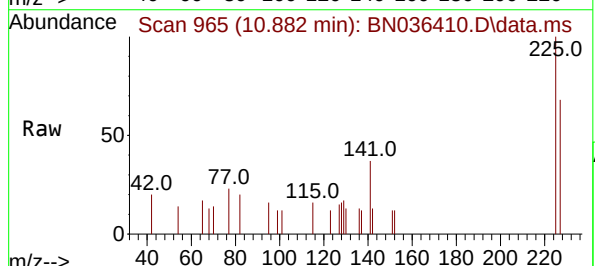
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

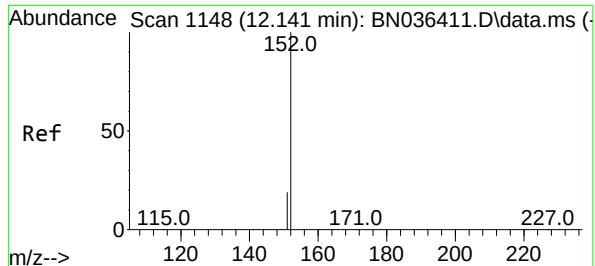
Tgt Ion:128 Resp: 2733
Ion Ratio Lower Upper
128 100
129 14.8 9.6 14.4#
127 16.7 12.0 18.0



#10
Hexachlorobutadiene
Concen: 0.164 ng
RT: 10.882 min Scan# 965
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:225 Resp: 702
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 50.9 76.3

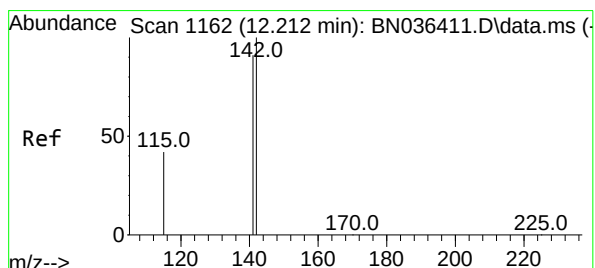
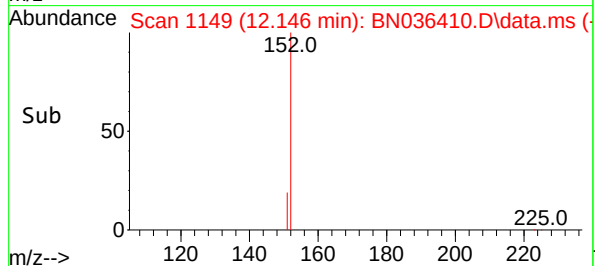
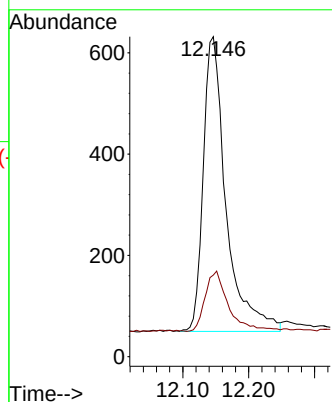
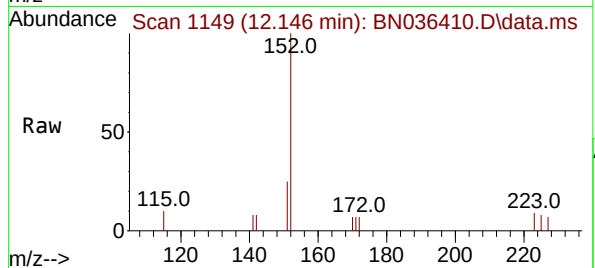




#11
2-Methylnaphthalene-d10
Concen: 0.213 ng
RT: 12.146 min Scan# 1149
Delta R.T. 0.005 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

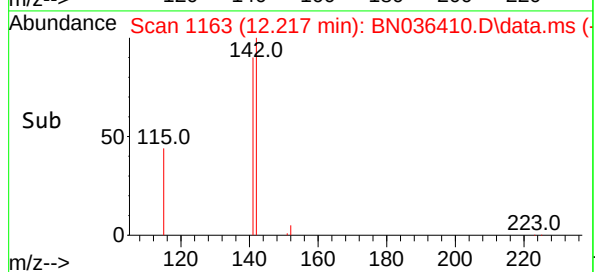
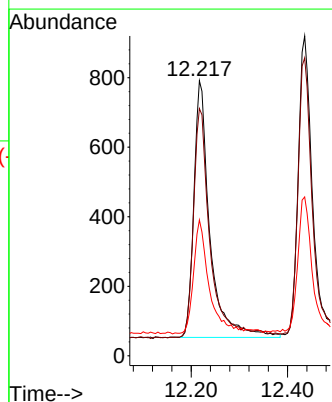
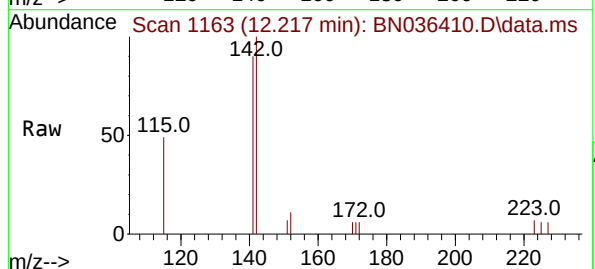
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

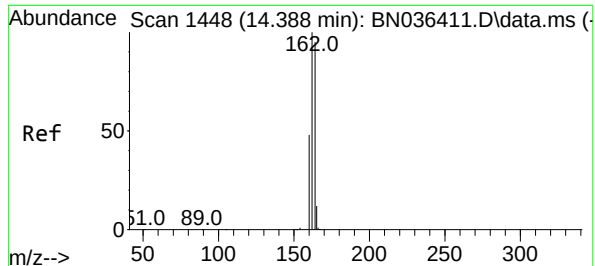
Tgt Ion:152 Resp: 1397
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.198 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.005 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:142 Resp: 1706
Ion Ratio Lower Upper
142 100
141 89.9 72.8 109.2
115 49.4 35.5 53.3

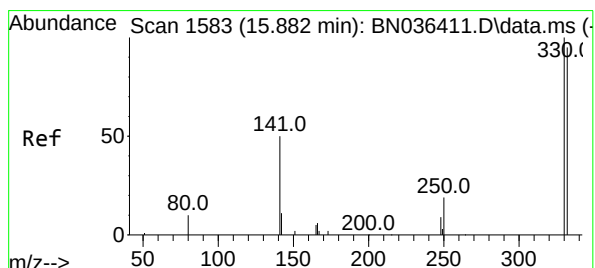
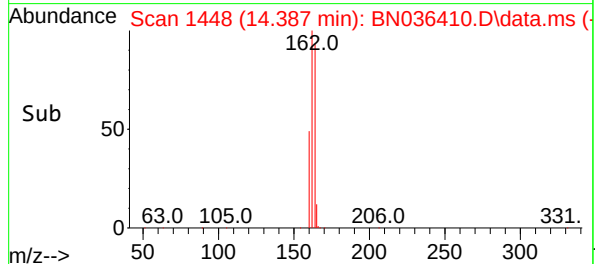
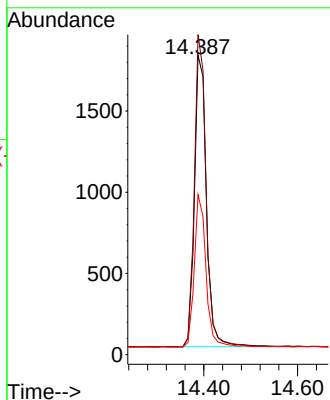
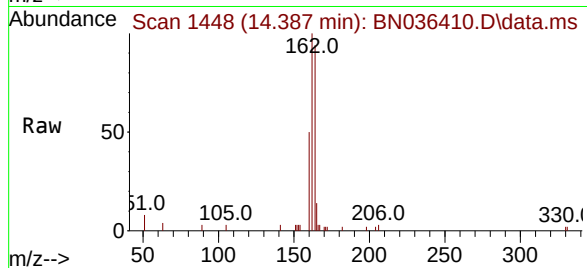




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.387 min Scan# 1448
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

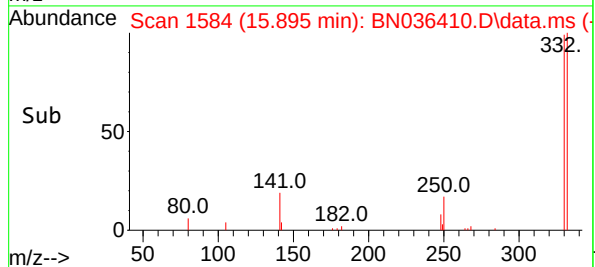
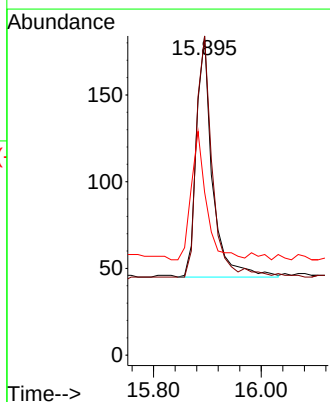
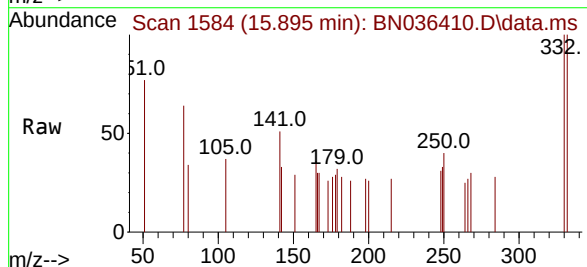
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

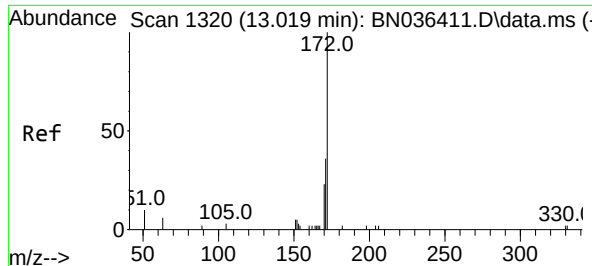
Tgt Ion:164 Resp: 3185
Ion Ratio Lower Upper
164 100
162 106.9 84.1 126.1
160 53.5 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.147 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.012 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:330 Resp: 289
Ion Ratio Lower Upper
330 100
332 99.0 76.6 114.8
141 49.8 37.8 56.8

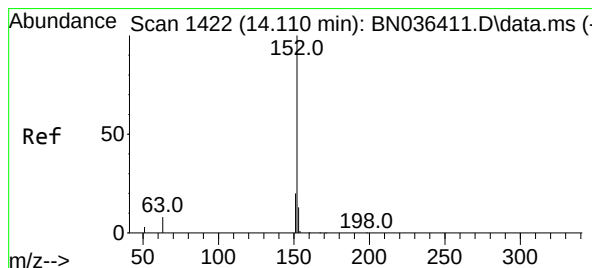
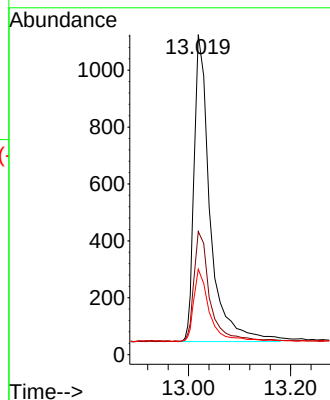
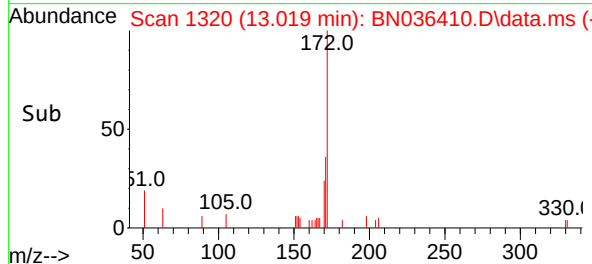
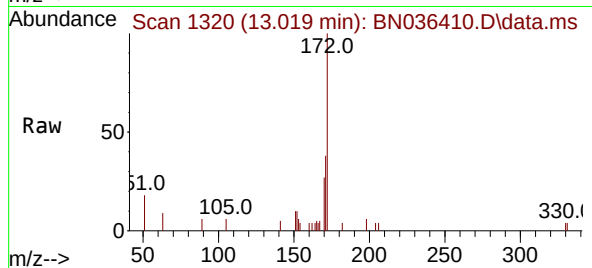




#15
2-Fluorobiphenyl
Concen: 0.163 ng
RT: 13.019 min Scan# 1320
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

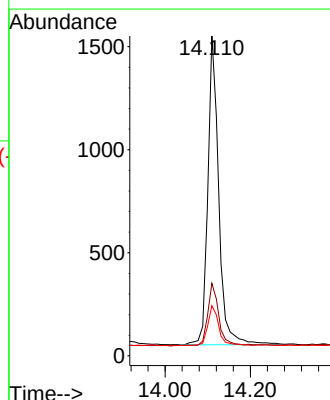
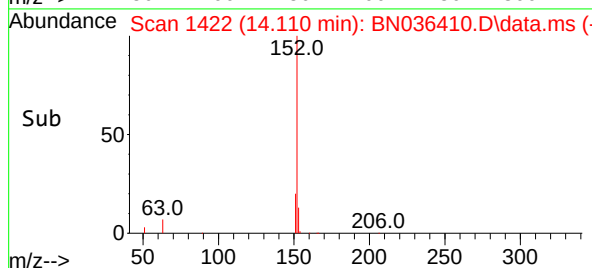
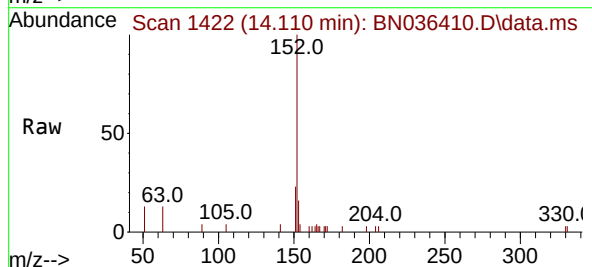
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

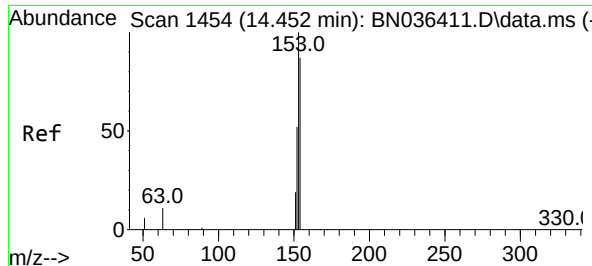
Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.5	29.6	44.4
170	26.7	19.8	29.6



#16
Acenaphthylene
Concen: 0.180 ng
RT: 14.110 min Scan# 1422
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	13.9	10.2	15.2

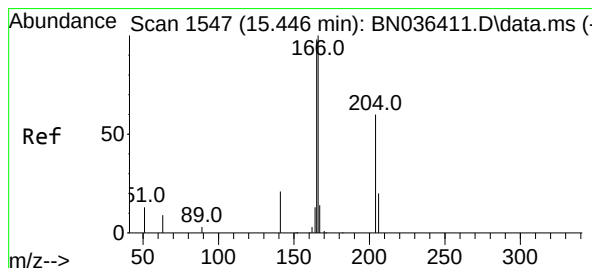
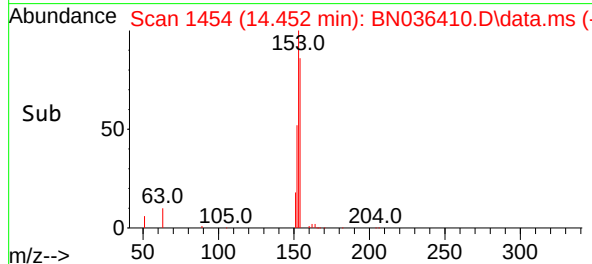
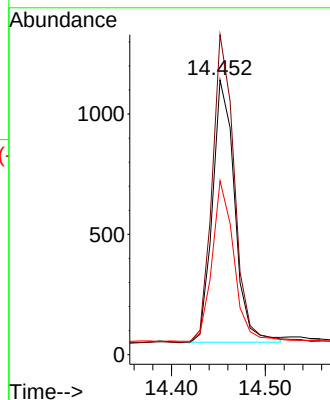
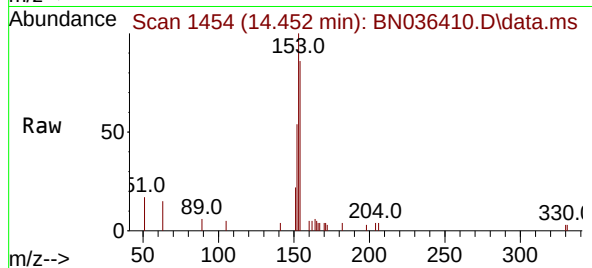




#17
Acenaphthene
Concen: 0.177 ng
RT: 14.452 min Scan# 1454
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

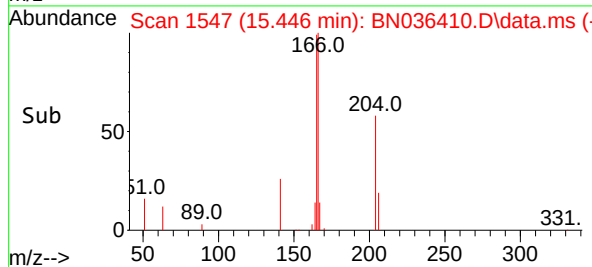
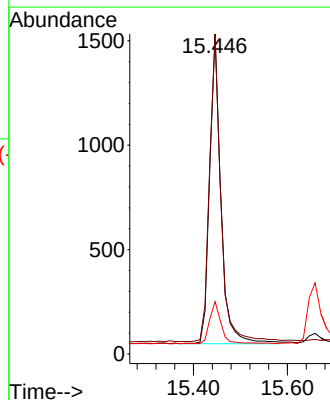
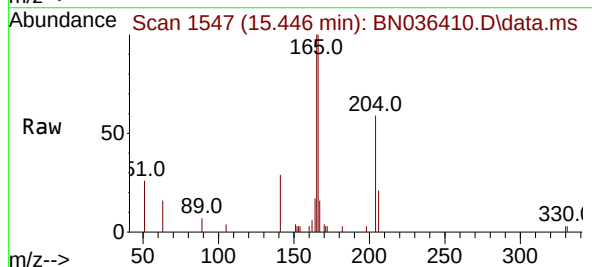
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

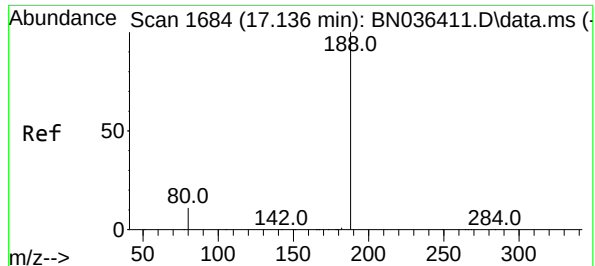
Tgt Ion	154	153	152
Resp:	1791		
Ion Ratio	100	119.4	61.4
Lower		93.3	48.8
Upper		139.9	73.2



#18
Fluorene
Concen: 0.200 ng
RT: 15.446 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion	166	165	167
Resp:	2596		
Ion Ratio	100	99.4	13.8
Lower		79.5	10.4
Upper		119.3	15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

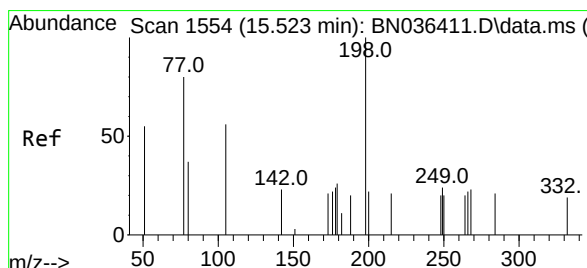
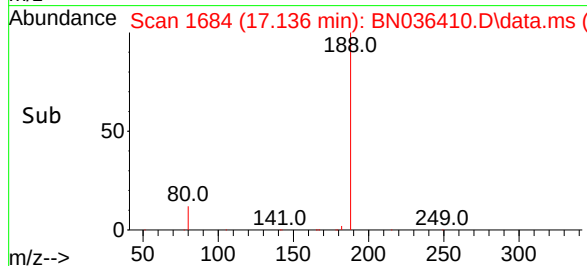
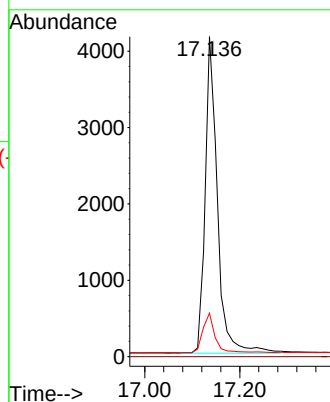
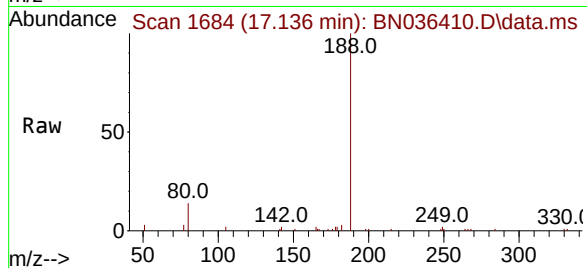
Tgt Ion:188 Resp: 7435

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.6 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.149 ng

RT: 15.535 min Scan# 1555

Delta R.T. 0.012 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

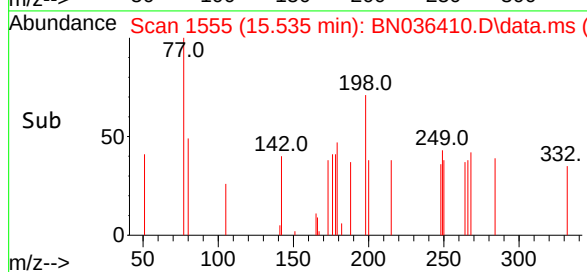
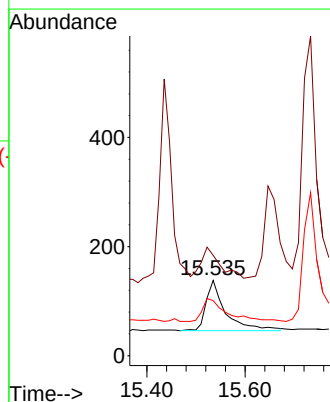
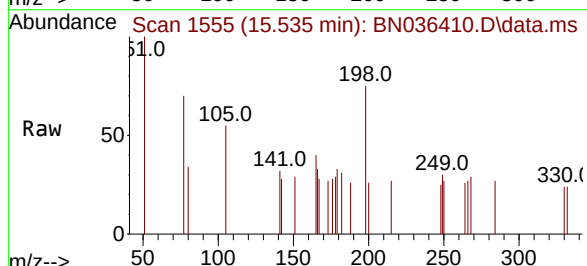
Tgt Ion:198 Resp: 248

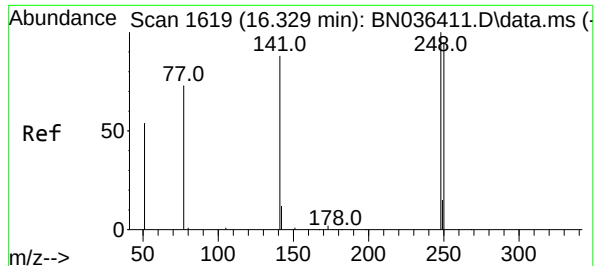
Ion Ratio Lower Upper

198 100

51 133.3 86.6 129.8

105 73.2 57.5 86.3

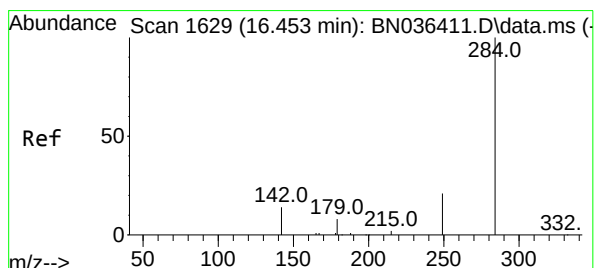
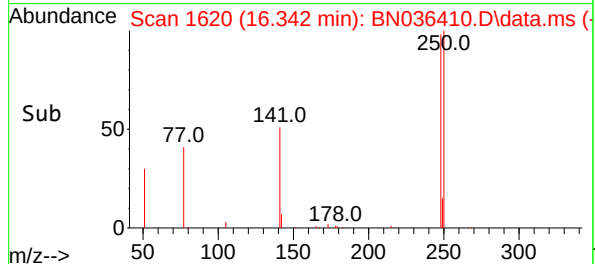
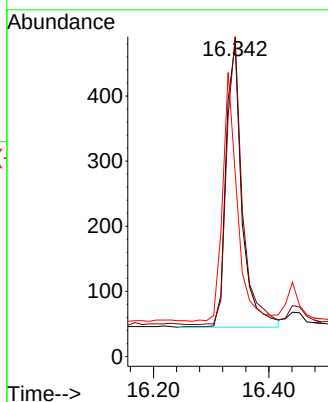
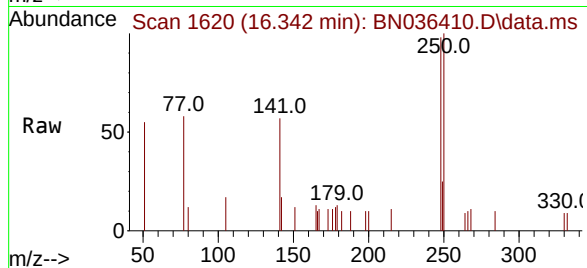




#21
4-Bromophenyl-phenylether
Concen: 0.166 ng
RT: 16.342 min Scan# 1620
Delta R.T. 0.012 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

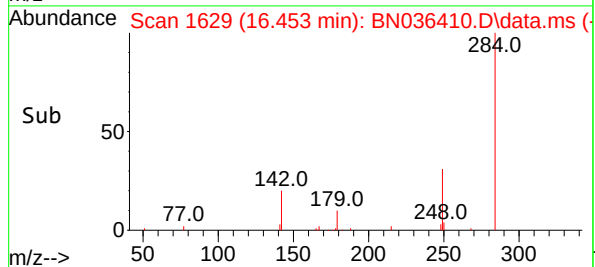
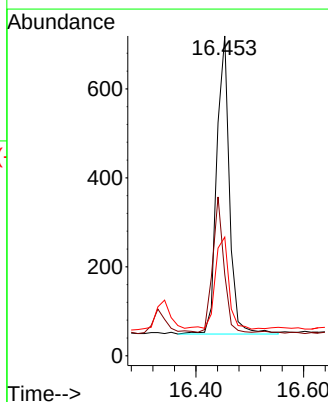
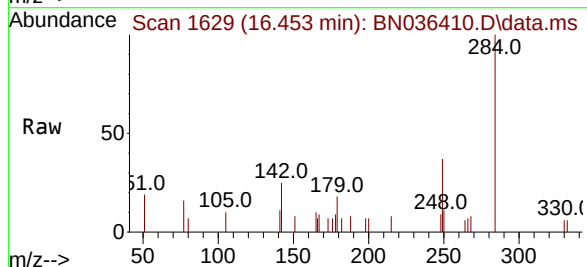
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

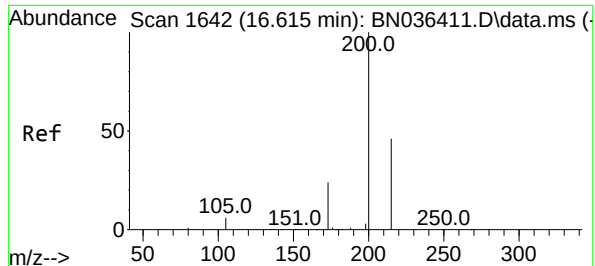
Tgt Ion:248 Resp: 844
Ion Ratio Lower Upper
248 100
250 102.3 76.1 114.1
141 58.7 71.7 107.5#



#22
Hexachlorobenzene
Concen: 0.166 ng
RT: 16.453 min Scan# 1629
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:284 Resp: 1101
Ion Ratio Lower Upper
284 100
142 39.9 33.4 50.0
249 33.7 28.6 43.0

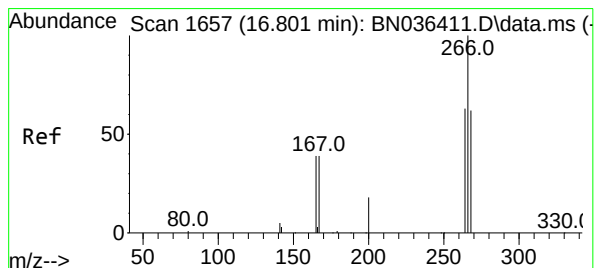
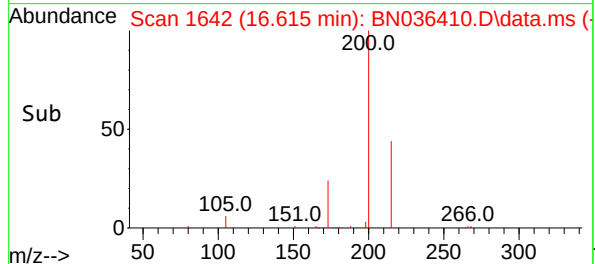
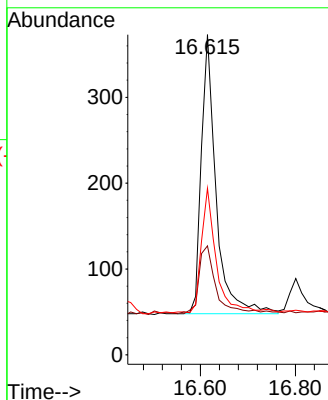
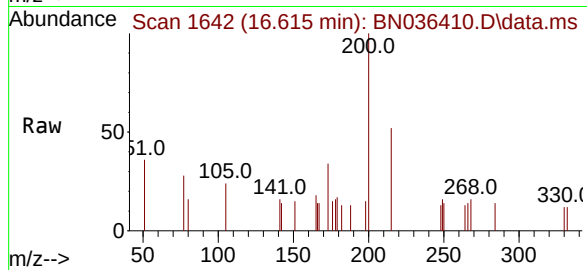




#23
Atrazine
Concen: 0.188 ng
RT: 16.615 min Scan# 1642
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

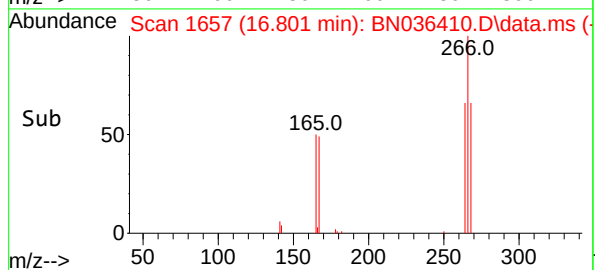
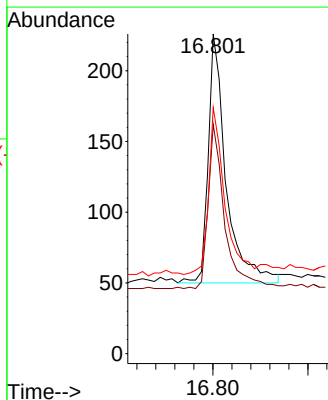
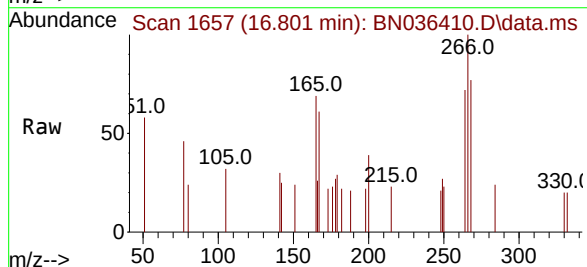
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

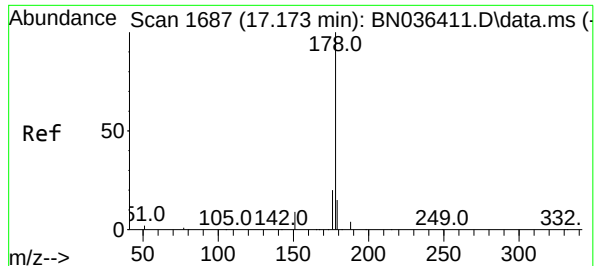
Tgt Ion:	200	Resp:	705
Ion	Ratio	Lower	Upper
200	100		
173	34.0	23.2	34.8
215	52.0	40.0	60.0



#24
Pentachlorophenol
Concen: 0.159 ng
RT: 16.801 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:	266	Resp:	463
Ion	Ratio	Lower	Upper
266	100		
264	60.9	50.6	76.0
268	60.0	51.9	77.9

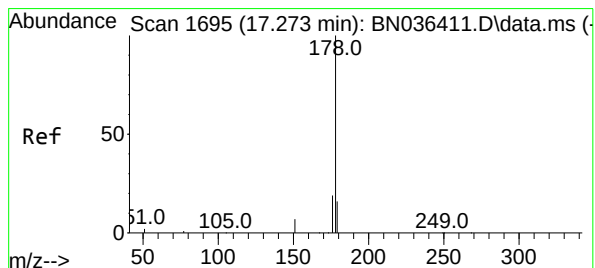
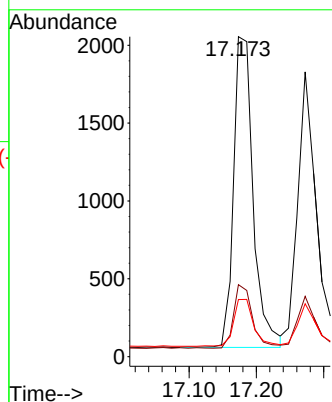
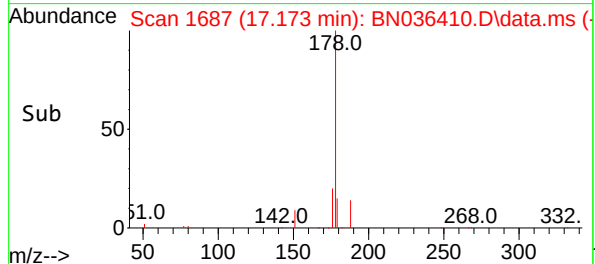
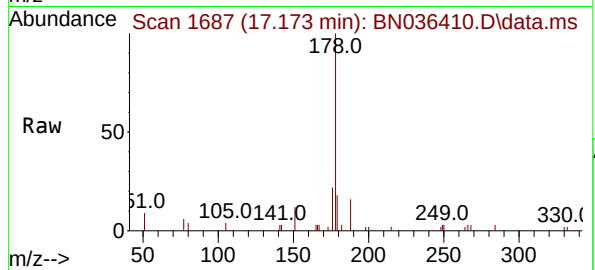




#25
Phenanthrene
Concen: 0.186 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

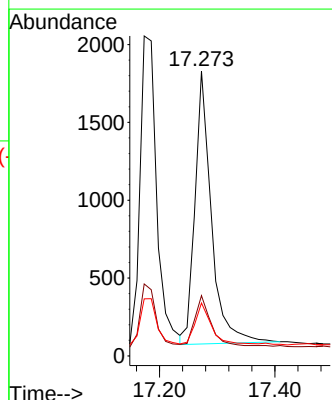
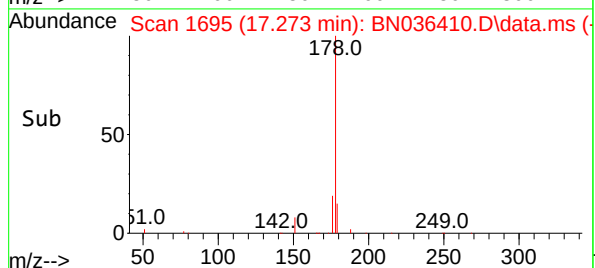
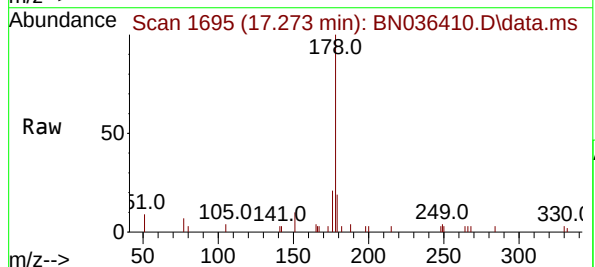
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

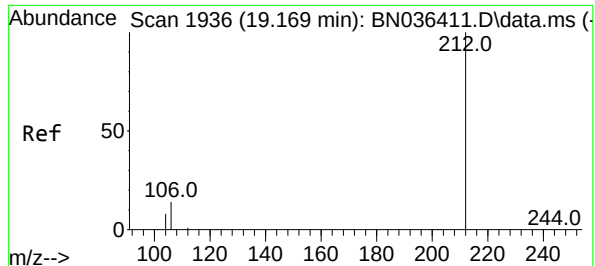
Tgt Ion:178 Resp: 4051
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.3 12.4 18.6



#26
Anthracene
Concen: 0.175 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:178 Resp: 3467
Ion Ratio Lower Upper
178 100
176 19.6 14.9 22.3
179 16.5 12.4 18.6

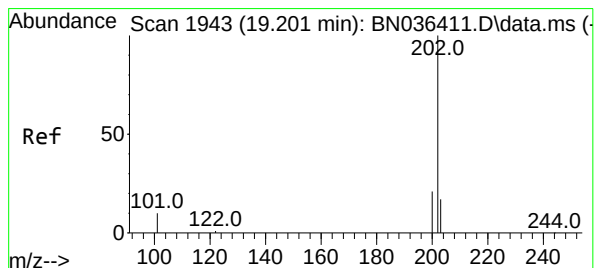
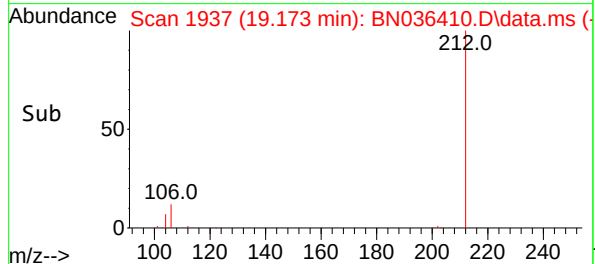
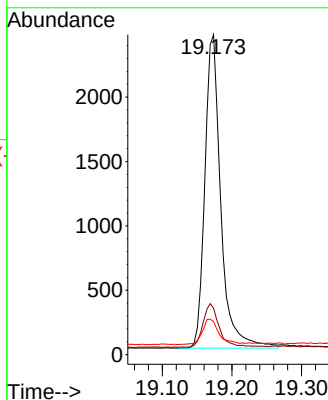
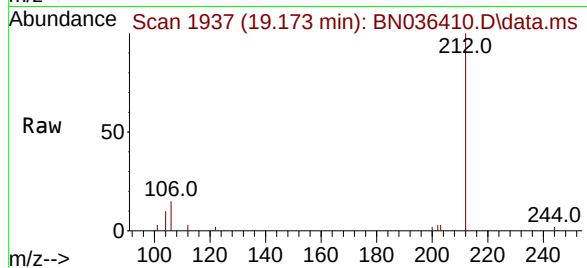




#27
Fluoranthene-d10
Concen: 0.203 ng
RT: 19.173 min Scan# 1937
Delta R.T. 0.005 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

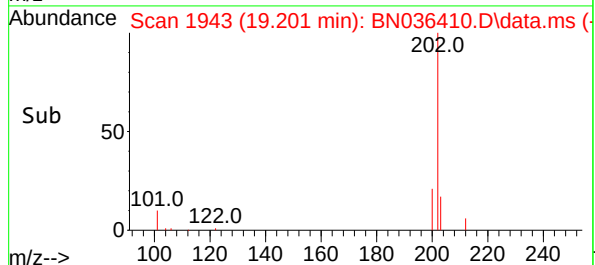
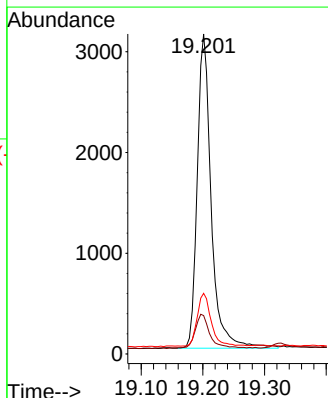
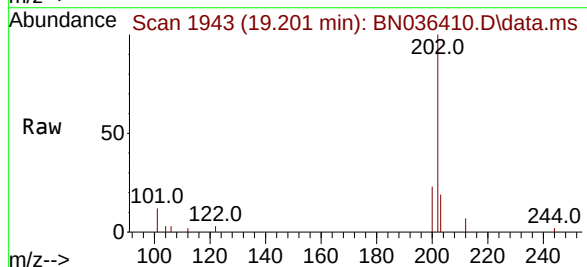
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

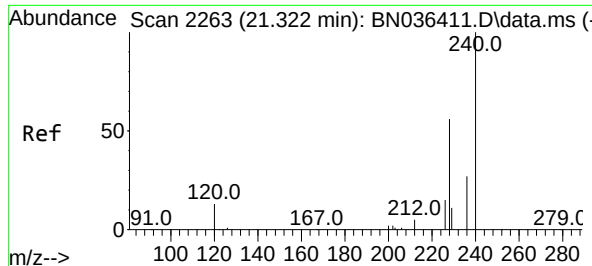
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.1	11.5	17.3
104	8.6	7.1	10.7



#28
Fluoranthene
Concen: 0.190 ng
RT: 19.201 min Scan# 1943
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.2	13.8
203	16.7	13.4	20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

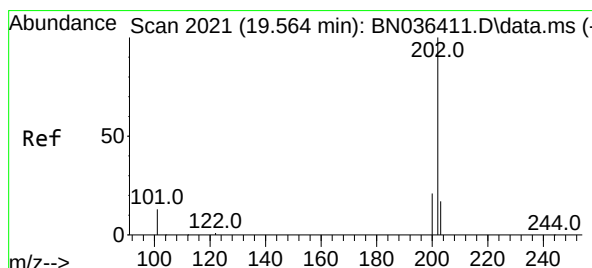
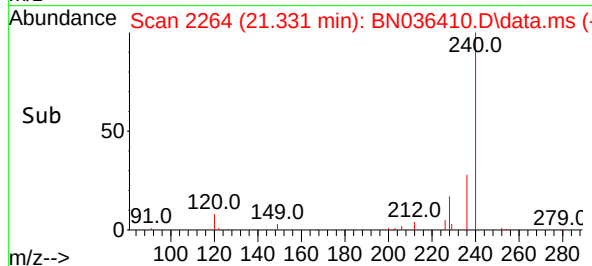
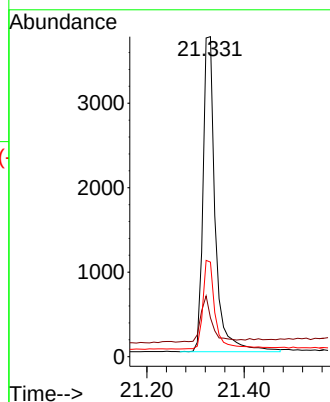
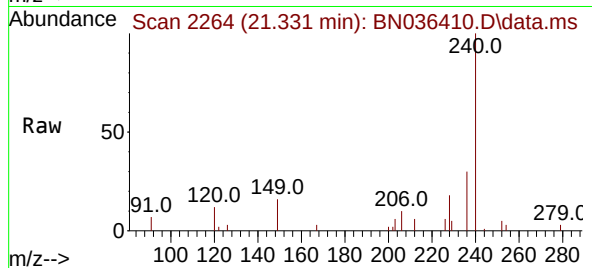
Tgt Ion:240 Resp: 6531

Ion Ratio Lower Upper

240 100

120 12.1 13.3 19.9#

236 29.5 23.0 34.6



#30

Pyrene

Concen: 0.196 ng

RT: 19.564 min Scan# 2021

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

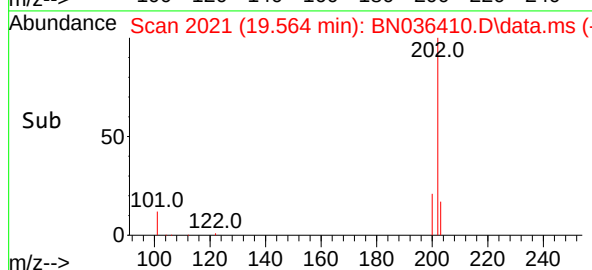
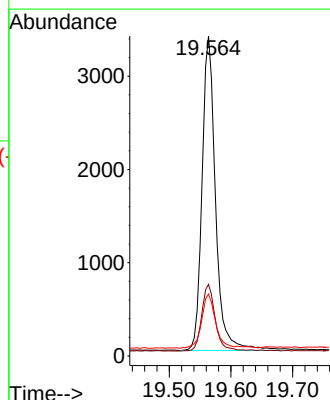
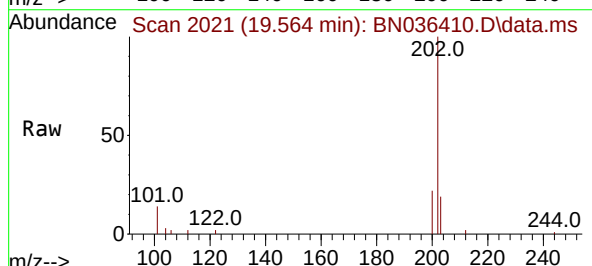
Tgt Ion:202 Resp: 5119

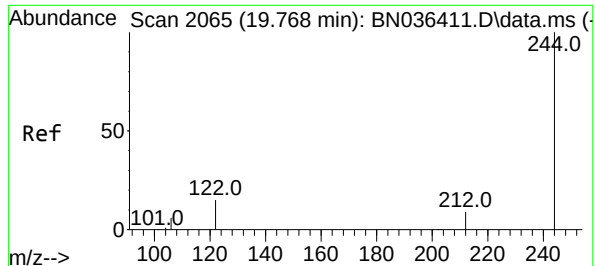
Ion Ratio Lower Upper

202 100

200 21.0 16.9 25.3

203 17.6 13.9 20.9

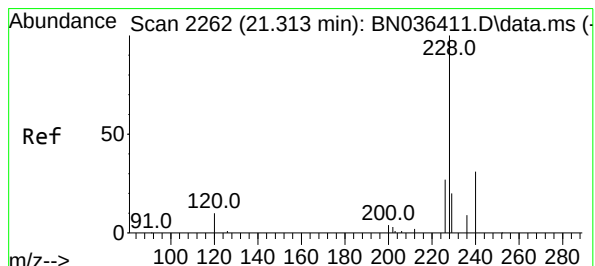
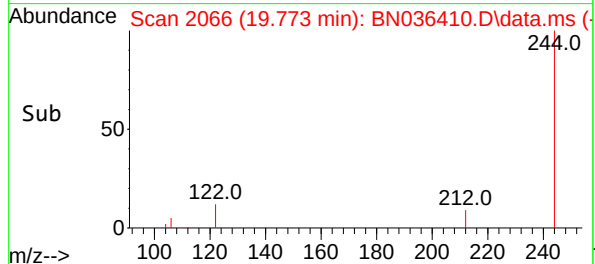
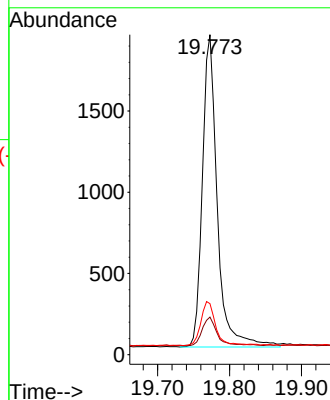
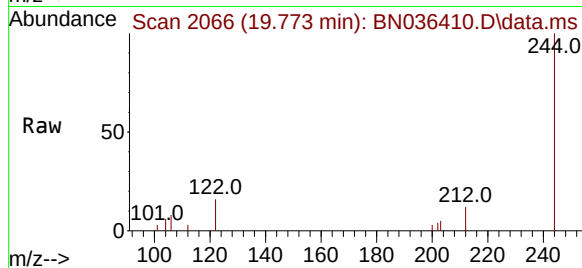




#31
Terphenyl-d14
Concen: 0.204 ng
RT: 19.773 min Scan# 2066
Delta R.T. 0.005 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

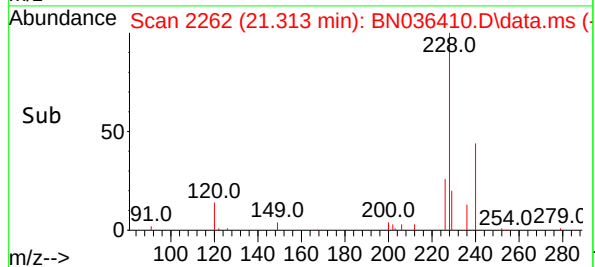
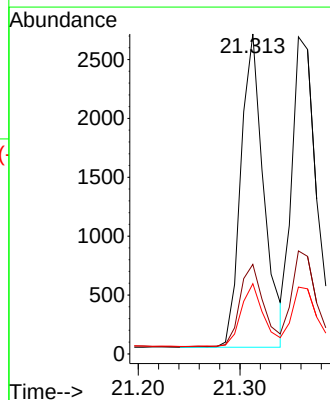
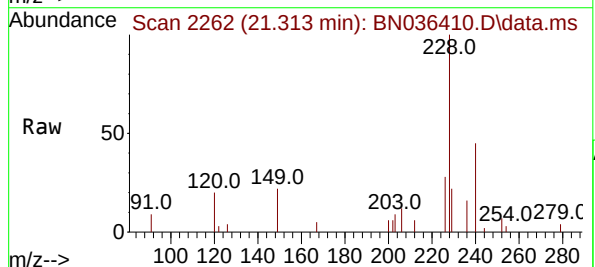
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

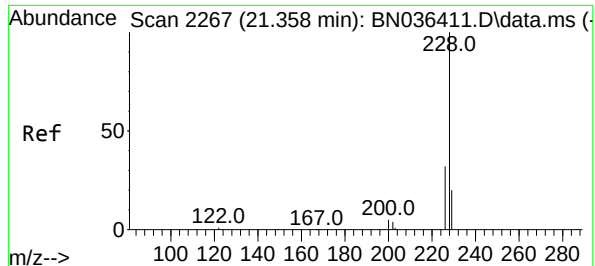
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.8	8.1	12.1
122	15.9	12.8	19.2



#32
Benzo(a)anthracene
Concen: 0.180 ng
RT: 21.313 min Scan# 2262
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.2	33.2
229	21.9	16.5	24.7





#33

Chrysene

Concen: 0.200 ng

RT: 21.357 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

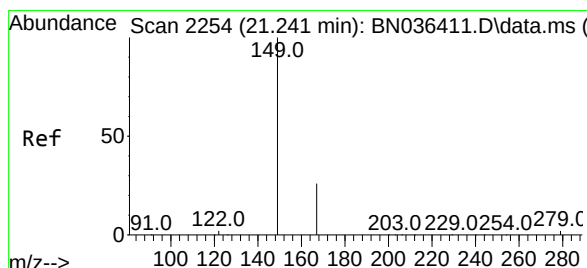
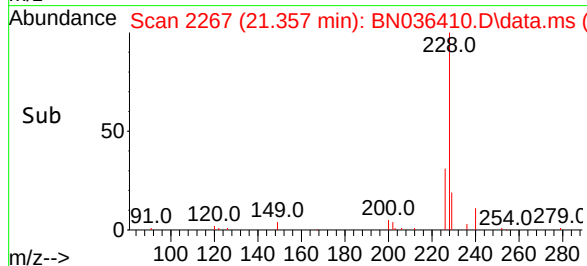
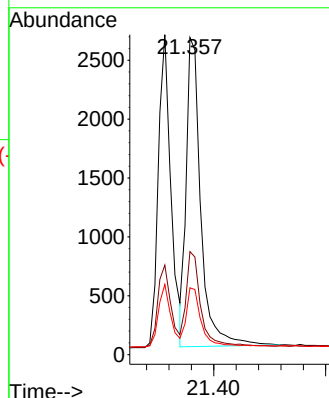
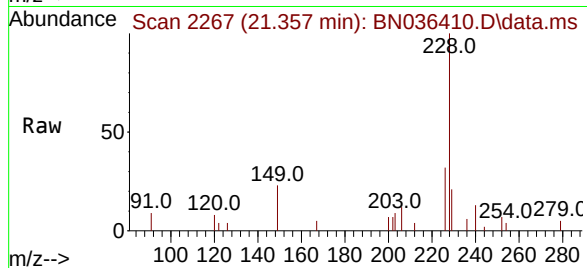
Tgt Ion:228 Resp: 4754

Ion Ratio Lower Upper

228 100

226 32.5 25.5 38.3

229 21.1 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.221 ng

RT: 21.241 min Scan# 2254

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

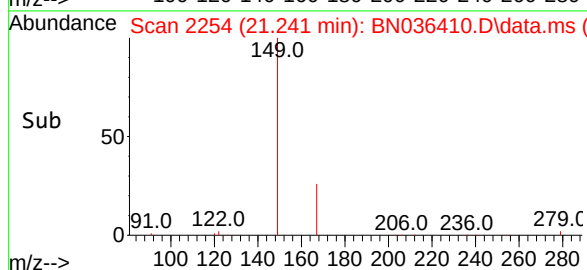
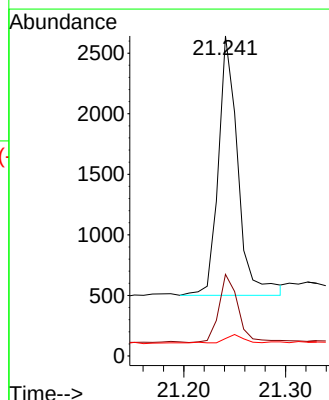
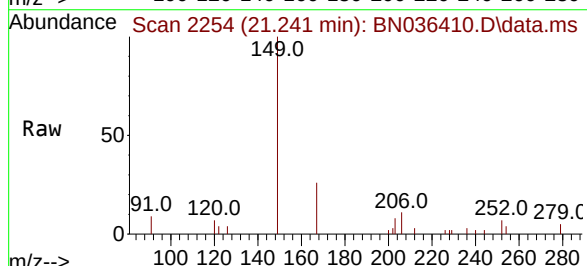
Tgt Ion:149 Resp: 2858

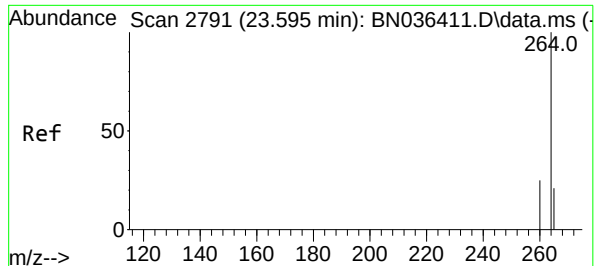
Ion Ratio Lower Upper

149 100

167 26.6 21.2 31.8

279 2.9 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.595 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

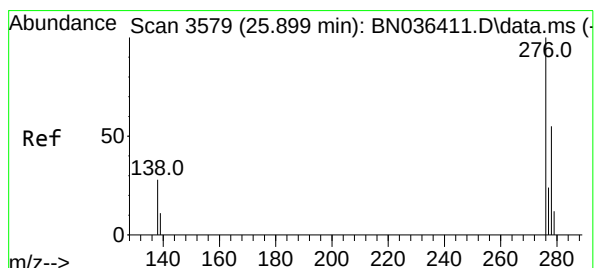
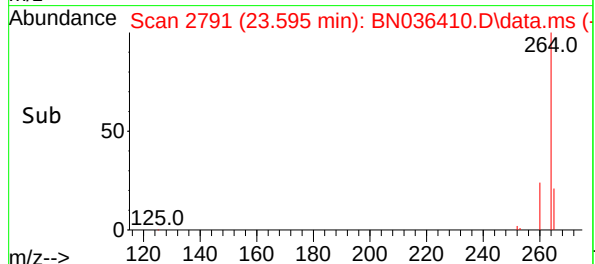
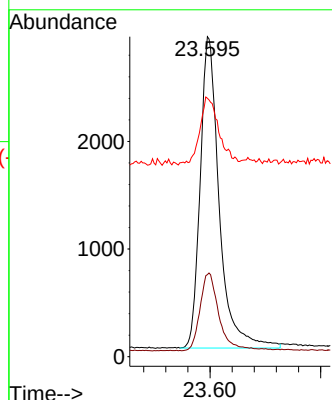
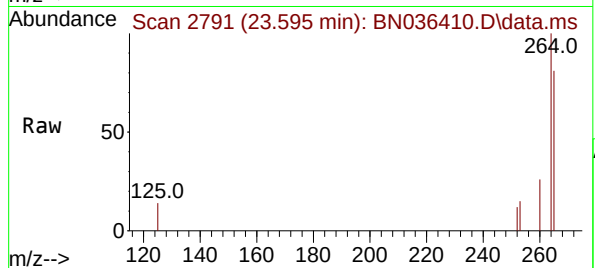
Tgt Ion:264 Resp: 6918

Ion Ratio Lower Upper

264 100

260 25.7 20.9 31.3

265 80.8 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.164 ng

RT: 25.905 min Scan# 3581

Delta R.T. 0.006 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

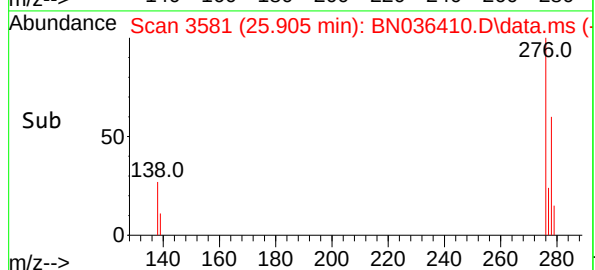
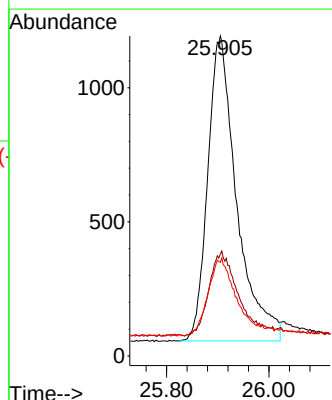
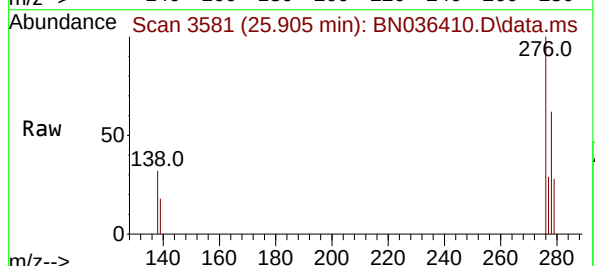
Tgt Ion:276 Resp: 4459

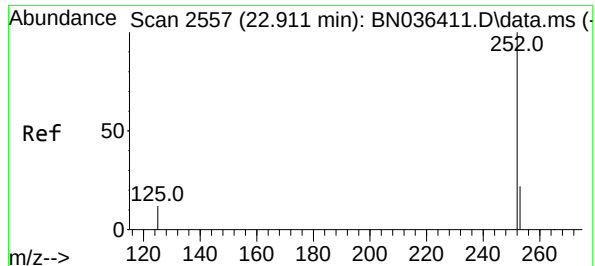
Ion Ratio Lower Upper

276 100

138 28.4 22.2 33.2

277 25.1 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.172 ng

RT: 22.914 min Scan# 2557

Delta R.T. 0.003 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

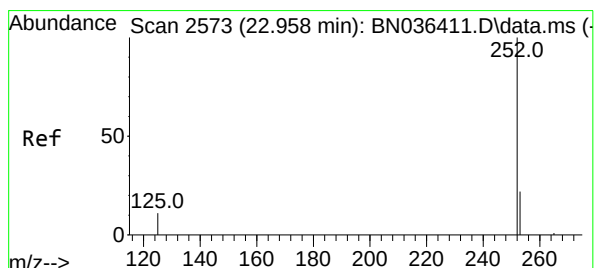
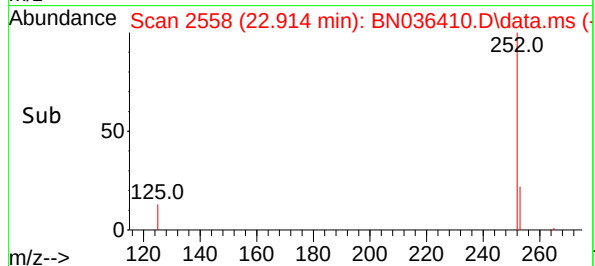
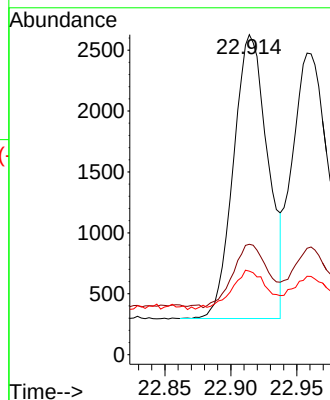
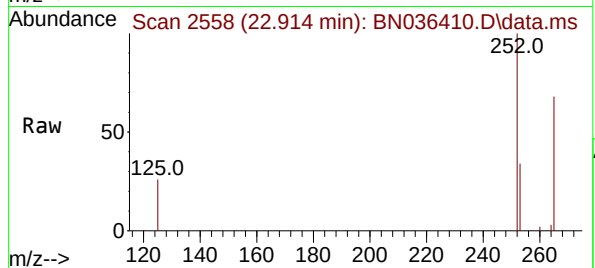
Tgt Ion:252 Resp: 4220

Ion Ratio Lower Upper

252 100

253 34.5 21.9 32.9#

125 26.1 15.0 22.6#



#38

Benzo(k)fluoranthene

Concen: 0.173 ng

RT: 22.958 min Scan# 2573

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

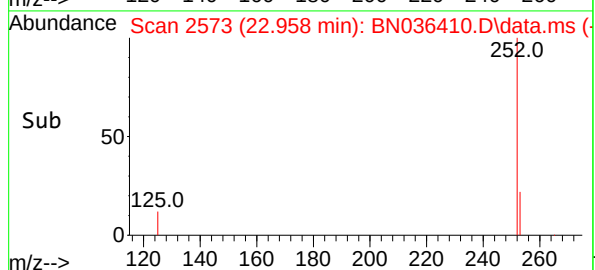
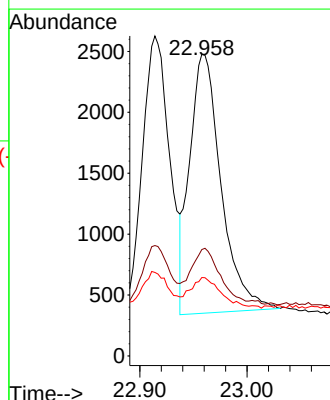
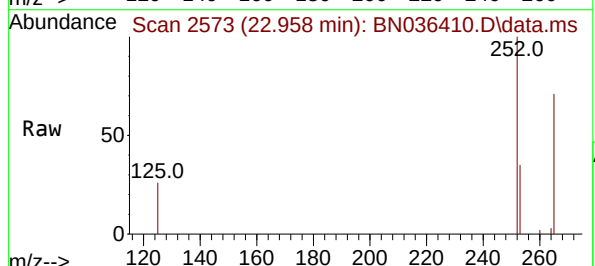
Tgt Ion:252 Resp: 4335

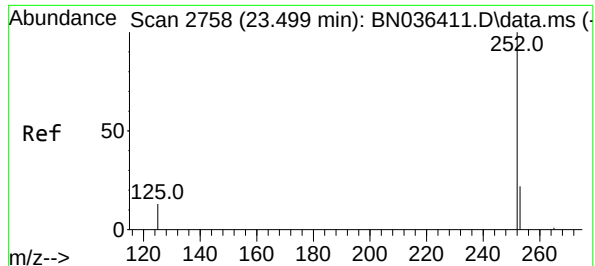
Ion Ratio Lower Upper

252 100

253 35.3 22.2 33.4#

125 26.0 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 0.177 ng

RT: 23.499 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

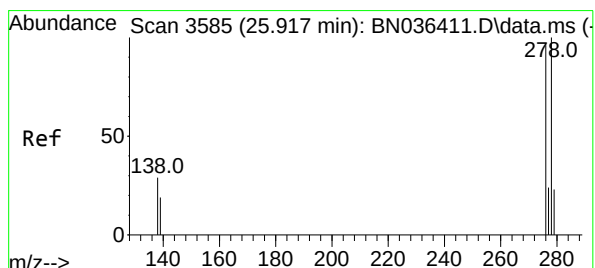
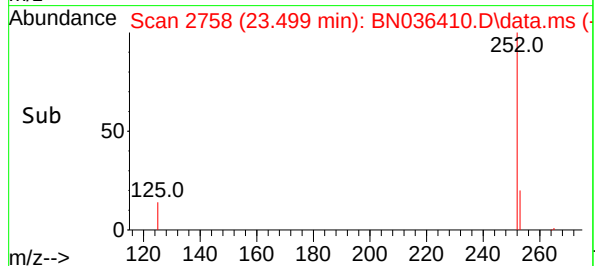
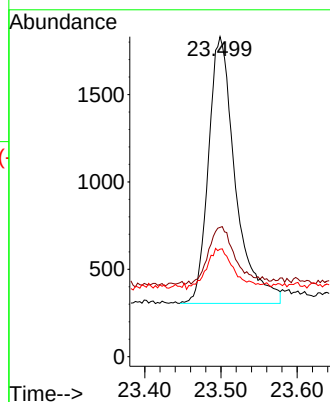
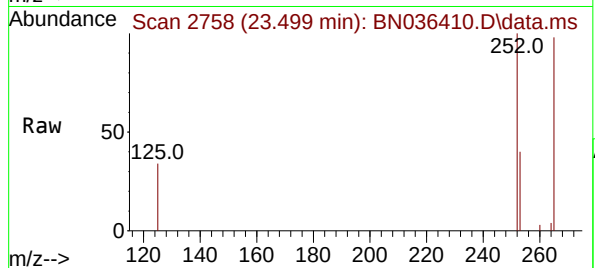
Tgt Ion:252 Resp: 3740

Ion Ratio Lower Upper

252 100

253 40.4 24.4 36.6#

125 33.6 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.164 ng

RT: 25.919 min Scan# 3586

Delta R.T. 0.003 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

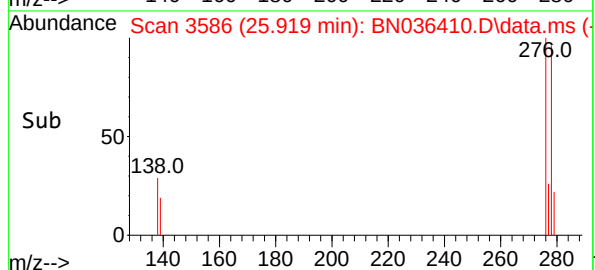
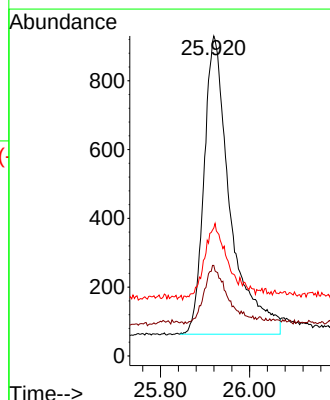
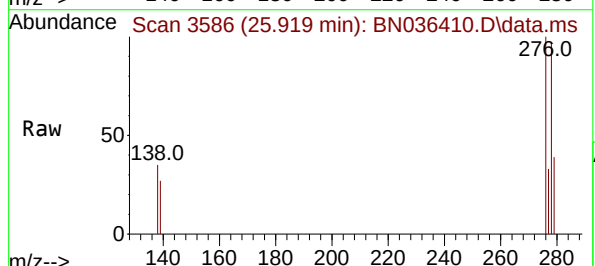
Tgt Ion:278 Resp: 3533

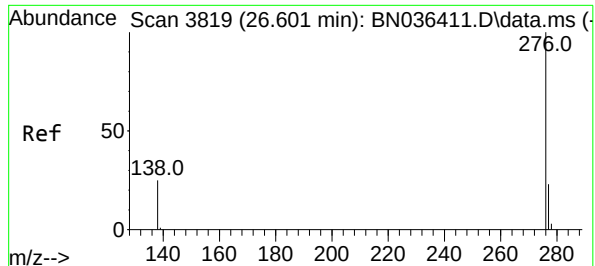
Ion Ratio Lower Upper

278 100

139 28.3 18.5 27.7#

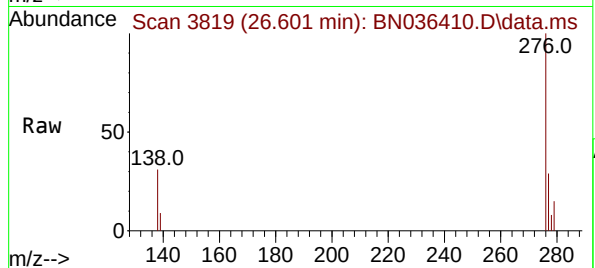
279 40.0 24.8 37.2#



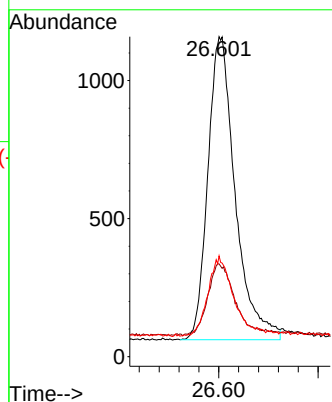
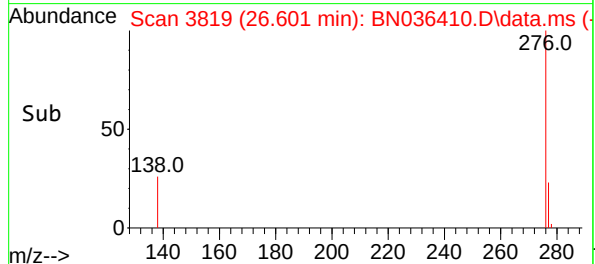


#41
Benzo(g,h,i)perylene
Concen: 0.177 ng
RT: 26.601 min Scan# 3819
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 276 Resp: 4192
Ion Ratio Lower Upper
276 100
277 29.0 20.7 31.1
138 31.5 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036411.D
 Acq On : 10 Feb 2025 13:36
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Feb 11 00:35:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

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

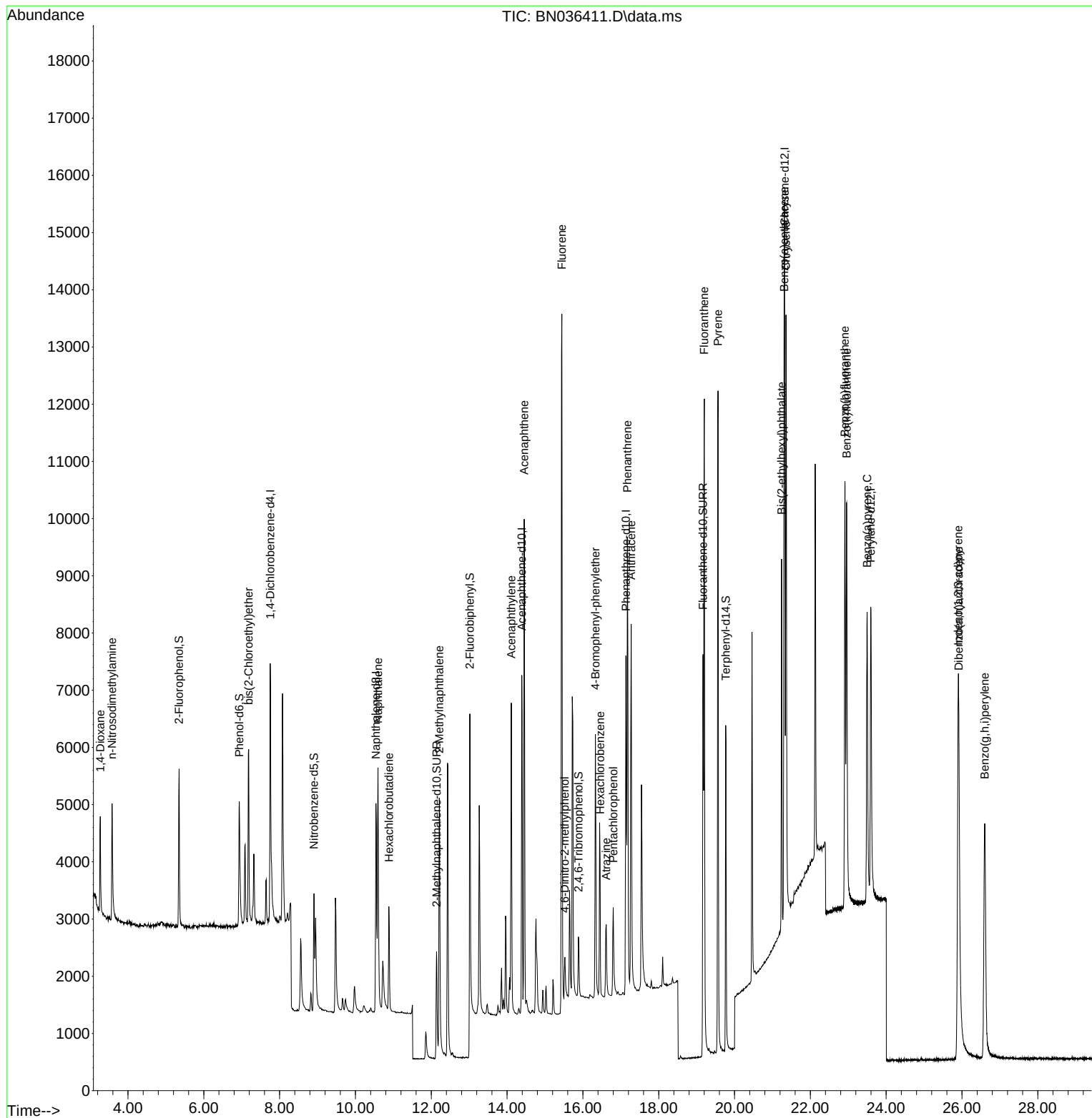
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2219	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	5528	0.400	ng	0.00
13) Acenaphthene-d10	14.388	164	3606	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	8328	0.400	ng	0.00
29) Chrysene-d12	21.322	240	7484	0.400	ng	0.00
35) Perylene-d12	23.595	264	7735	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	2078	0.368	ng	0.00
5) Phenol-d6	6.937	99	2290	0.348	ng	0.00
8) Nitrobenzene-d5	8.907	82	2015	0.391	ng	0.00
11) 2-Methylnaphthalene-d10	12.141	152	3329	0.440	ng	0.00
14) 2,4,6-Tribromophenol	15.882	330	670	0.302	ng	0.00
15) 2-Fluorobiphenyl	13.019	172	4965	0.323	ng	0.00
27) Fluoranthene-d10	19.169	212	8851	0.413	ng	0.00
31) Terphenyl-d14	19.768	244	6378	0.412	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.268	88	961	0.392	ng	99
3) n-Nitrosodimethylamine	3.579	42	1695	0.385	ng	100
6) bis(2-Chloroethyl)ether	7.183	93	2410	0.440	ng	100
9) Naphthalene	10.594	128	6168	0.391	ng	100
10) Hexachlorobutadiene	10.883	225	1567	0.317	ng	# 100
12) 2-Methylnaphthalene	12.212	142	4078	0.411	ng	100
16) Acenaphthylene	14.110	152	6103	0.366	ng	100
17) Acenaphthene	14.452	154	4132	0.362	ng	100
18) Fluorene	15.446	166	5991	0.407	ng	99
20) 4,6-Dinitro-2-methylph...	15.523	198	572	0.307	ng	100
21) 4-Bromophenyl-phenylether	16.329	248	1920	0.337	ng	100
22) Hexachlorobenzene	16.453	284	2369	0.318	ng	100
23) Atrazine	16.615	200	1560	0.372	ng	100
24) Pentachlorophenol	16.801	266	1018	0.313	ng	99
25) Phenanthrene	17.173	178	9119	0.374	ng	100
26) Anthracene	17.273	178	8056	0.363	ng	100
28) Fluoranthene	19.201	202	11264	0.389	ng	100
30) Pyrene	19.564	202	11479	0.384	ng	100
32) Benzo(a)anthracene	21.313	228	9677	0.364	ng	100
33) Chrysene	21.358	228	10178	0.373	ng	100
34) Bis(2-ethylhexyl)phtha...	21.241	149	5815	0.392	ng	100
36) Indeno(1,2,3-cd)pyrene	25.899	276	10661	0.351	ng	100
37) Benzo(b)fluoranthene	22.911	252	9743	0.355	ng	100
38) Benzo(k)fluoranthene	22.958	252	10543	0.377	ng	100
39) Benzo(a)pyrene	23.499	252	8521	0.362	ng	100
40) Dibenzo(a,h)anthracene	25.917	278	8314	0.344	ng	100
41) Benzo(g,h,i)perylene	26.601	276	9701	0.366	ng	100

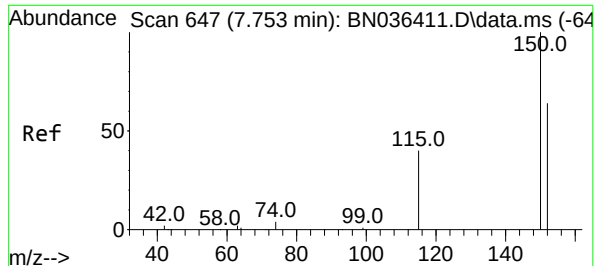
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036411.D
Acq On : 10 Feb 2025 13:36
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Feb 11 00:35:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

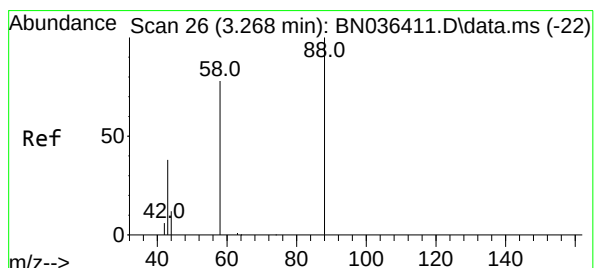
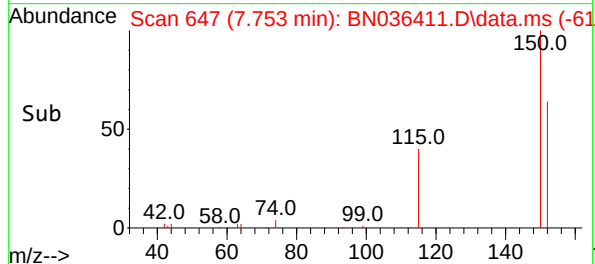
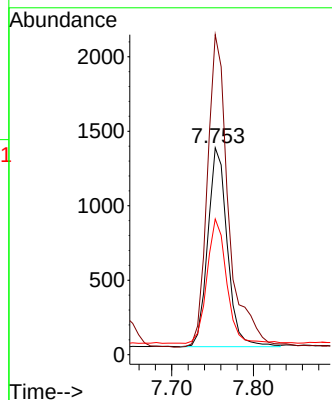
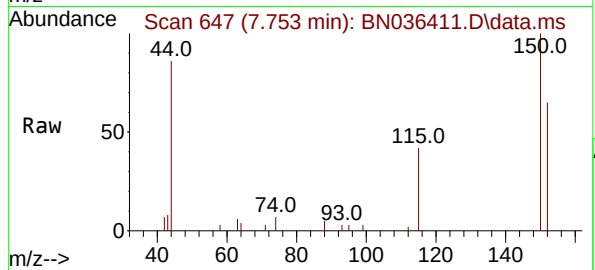




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

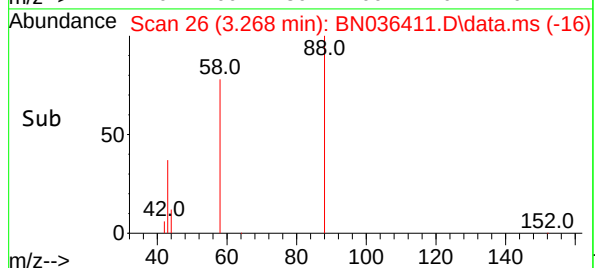
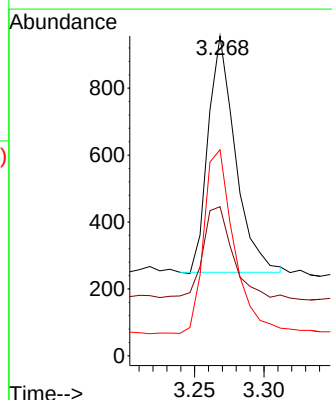
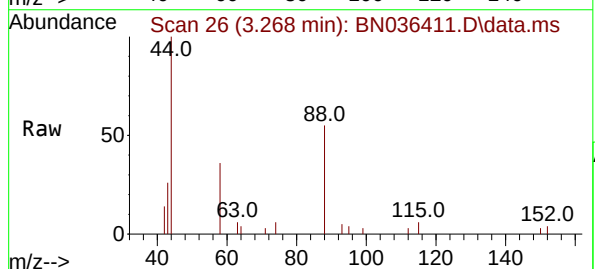
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

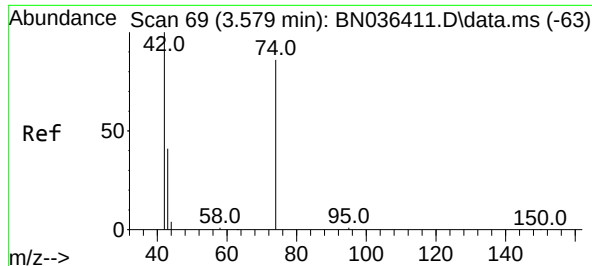
Tgt Ion:152 Resp: 2219
Ion Ratio Lower Upper
152 100
150 154.6 123.7 185.5
115 65.6 52.5 78.7



#2
1,4-Dioxane
Concen: 0.392 ng
RT: 3.268 min Scan# 26
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion: 88 Resp: 961
Ion Ratio Lower Upper
88 100
43 41.4 33.7 50.5
58 87.1 68.9 103.3

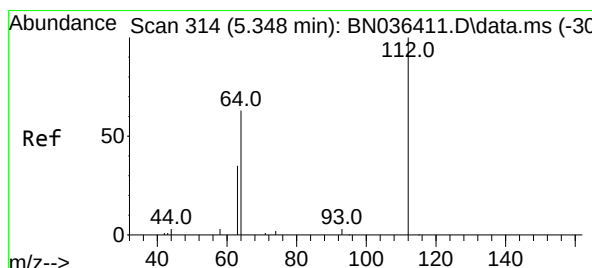
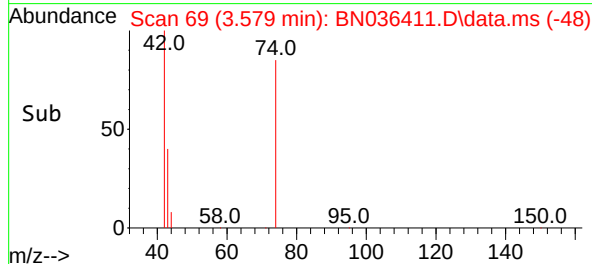
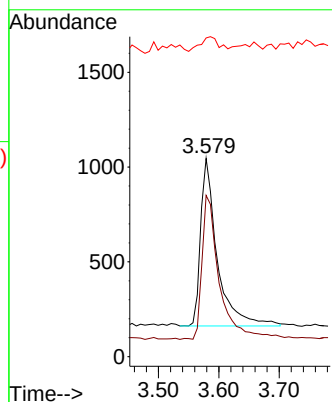
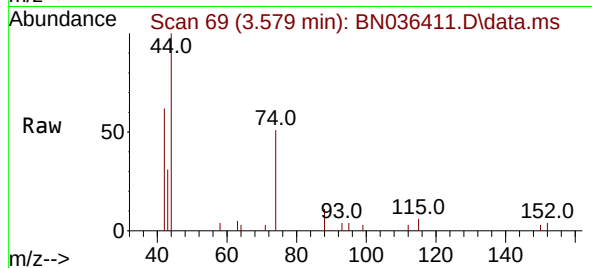




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.579 min Scan# 69
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

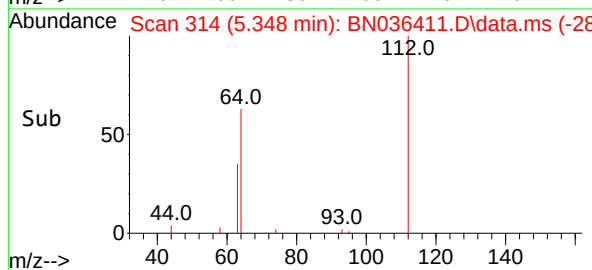
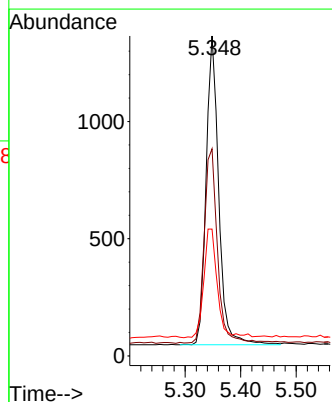
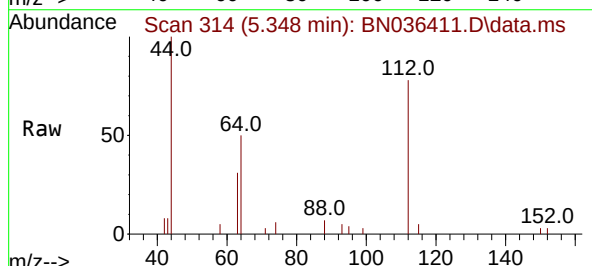
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

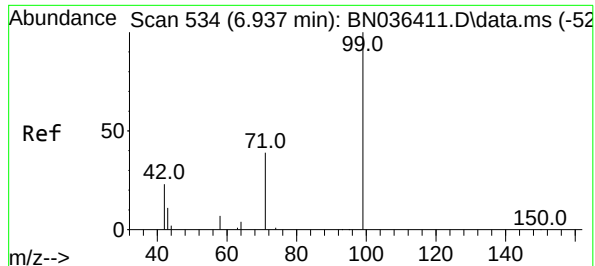
Tgt Ion: 42 Resp: 1695
Ion Ratio Lower Upper
42 100
74 89.7 71.8 107.6
44 9.7 7.8 11.6



#4
2-Fluorophenol
Concen: 0.368 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion: 112 Resp: 2078
Ion Ratio Lower Upper
112 100
64 66.7 53.4 80.0
63 37.9 30.3 45.5

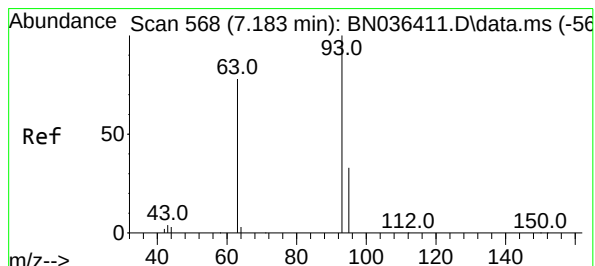
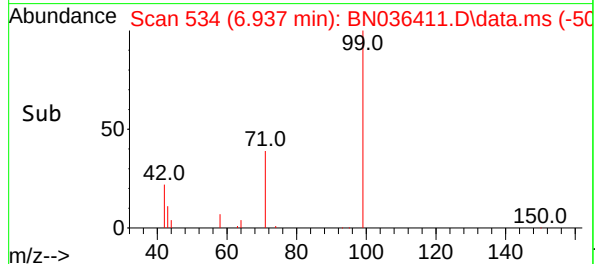
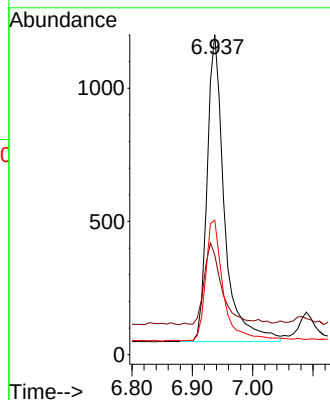
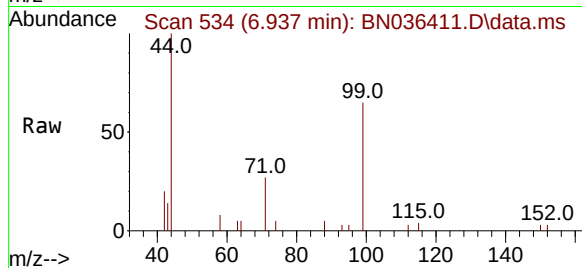




#5
Phenol-d6
Concen: 0.348 ng
RT: 6.937 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

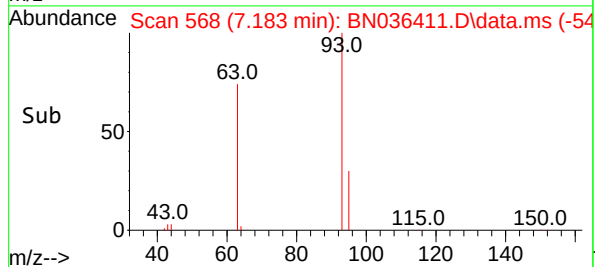
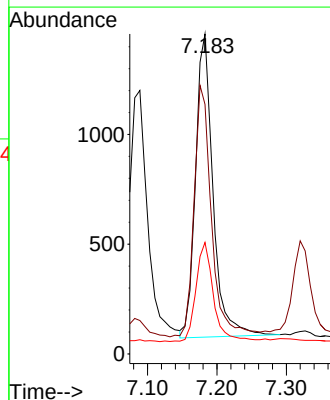
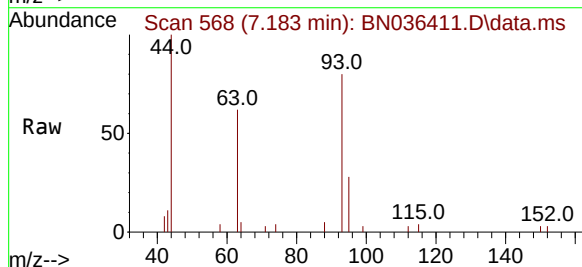
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

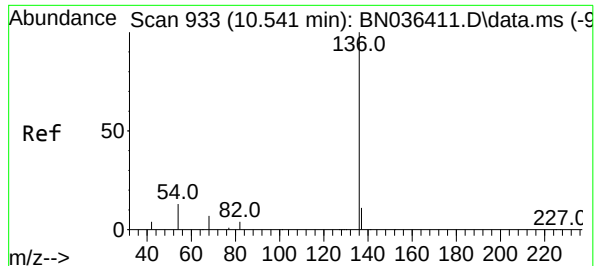
Tgt Ion	Ratio	Lower	Upper
99	100		
42	27.1	21.7	32.5
71	40.8	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.440 ng
RT: 7.183 min Scan# 568
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion	Ratio	Lower	Upper
93	100		
63	82.9	66.3	99.5
95	32.8	26.2	39.4

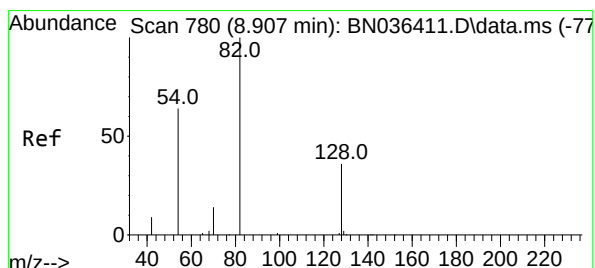
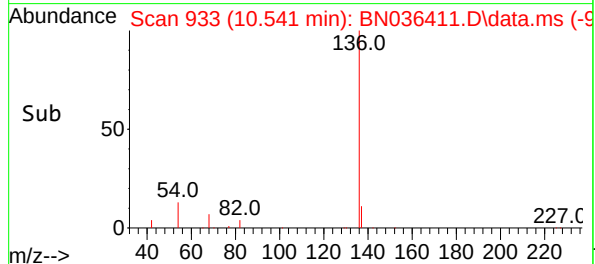
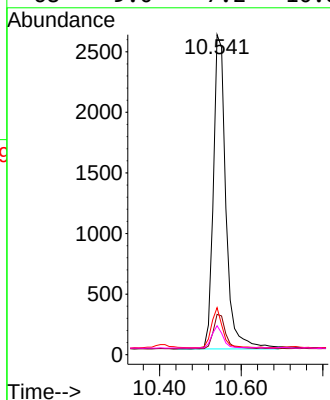
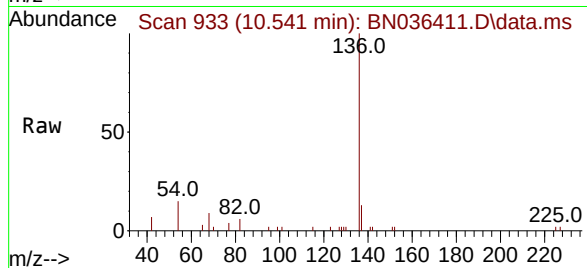




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

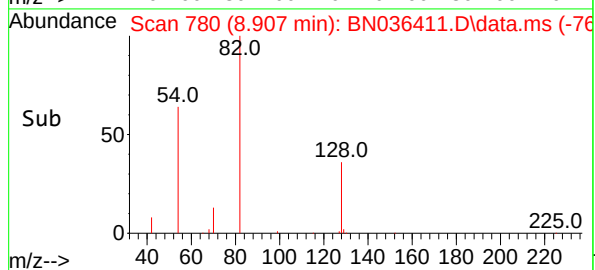
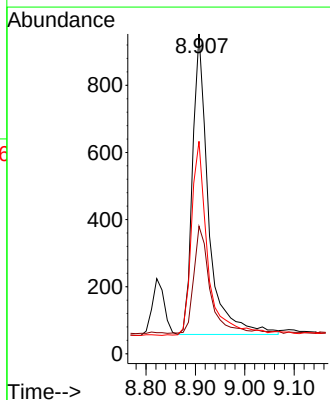
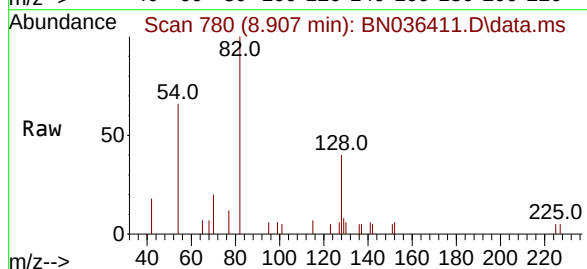
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

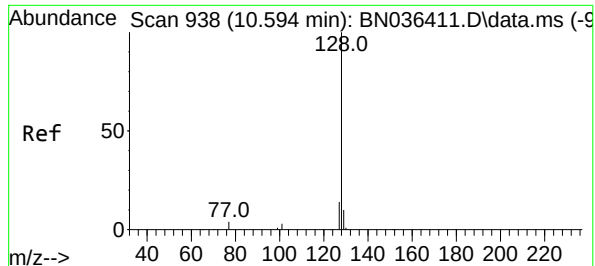
Tgt Ion:	136	Resp:	5528
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.1	15.1
54	14.7	11.8	17.6
68	9.0	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.391 ng
RT: 8.907 min Scan# 780
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:	82	Resp:	2015
Ion	Ratio	Lower	Upper
82	100		
128	39.9	31.9	47.9
54	66.4	53.1	79.7

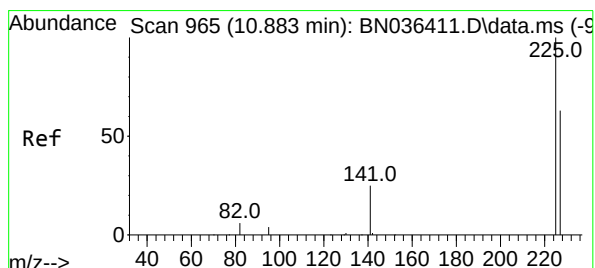
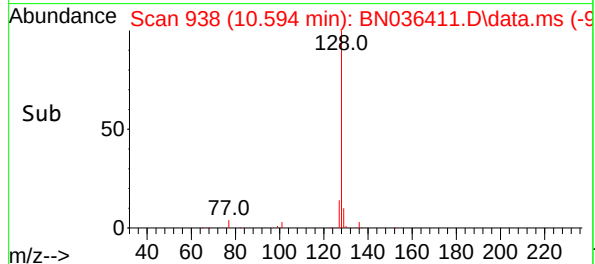
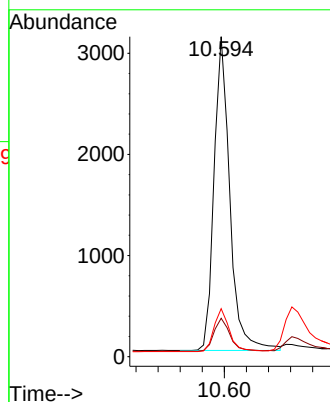
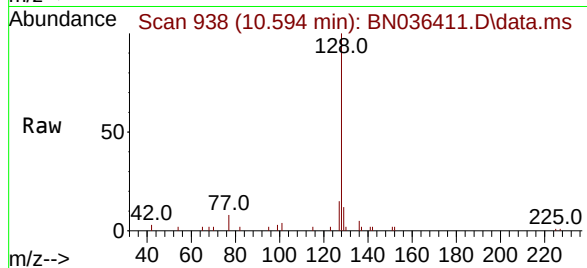




#9
Naphthalene
Concen: 0.391 ng
RT: 10.594 min Scan# 938
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

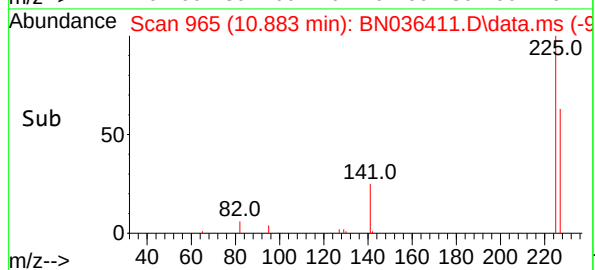
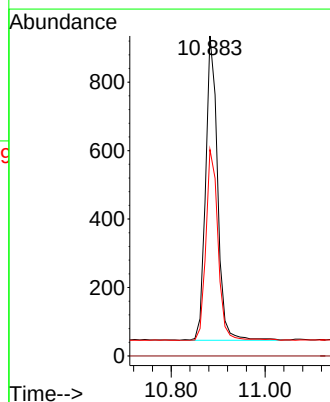
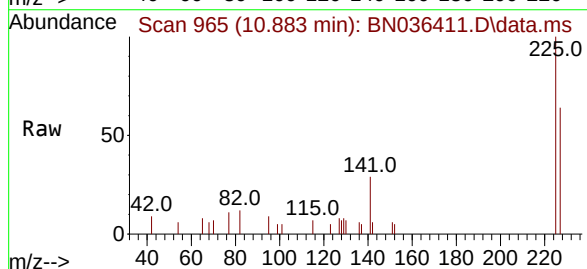
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

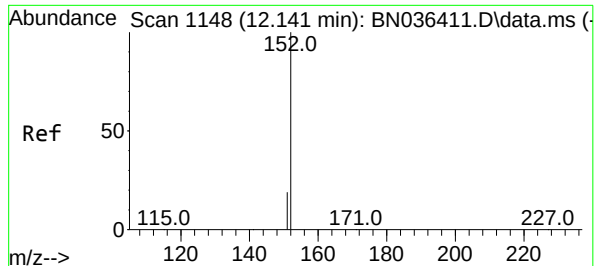
Tgt Ion:128 Resp: 6168
Ion Ratio Lower Upper
128 100
129 12.0 9.6 14.4
127 15.0 12.0 18.0



#10
Hexachlorobutadiene
Concen: 0.317 ng
RT: 10.883 min Scan# 965
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:225 Resp: 1567
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 50.9 76.3

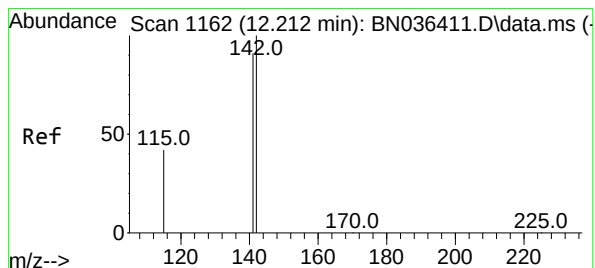
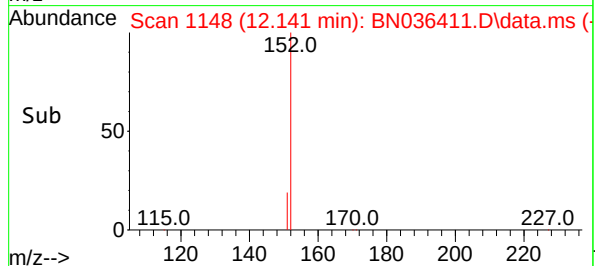
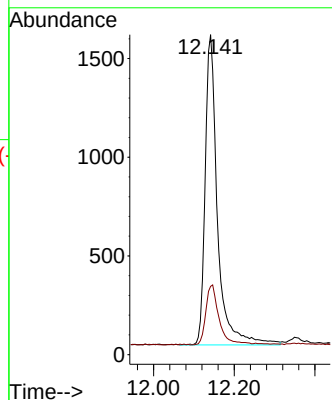
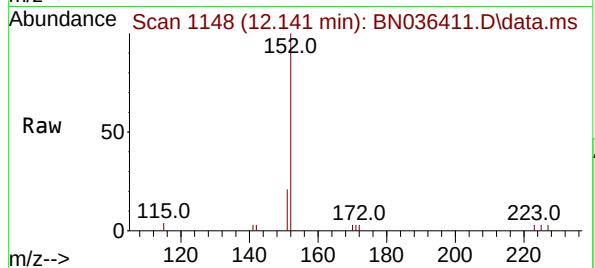




#11
2-Methylnaphthalene-d10
Concen: 0.440 ng
RT: 12.141 min Scan# 1148
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

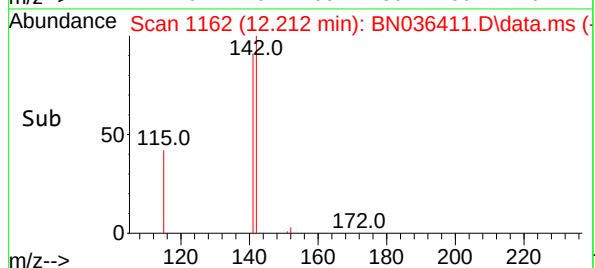
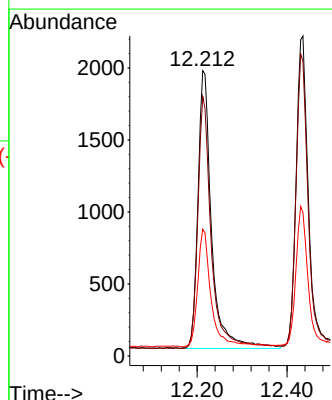
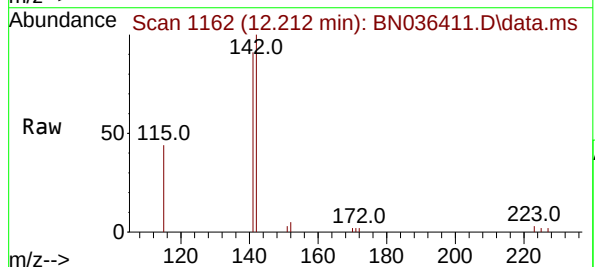
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

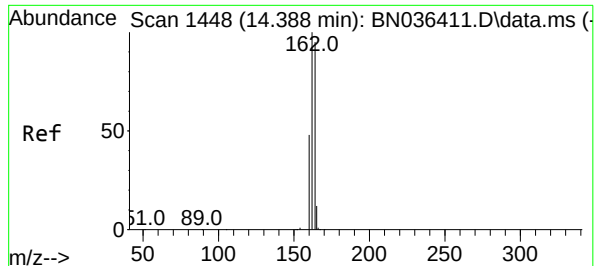
Tgt Ion:152 Resp: 3329
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.411 ng
RT: 12.212 min Scan# 1162
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:142 Resp: 4078
Ion Ratio Lower Upper
142 100
141 91.0 72.8 109.2
115 44.4 35.5 53.3

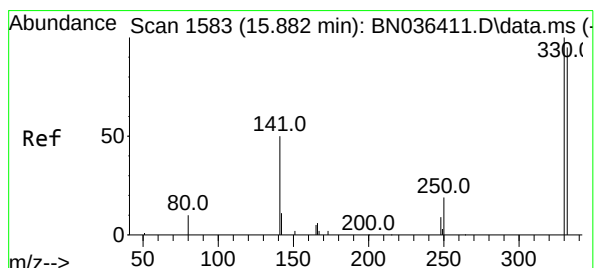
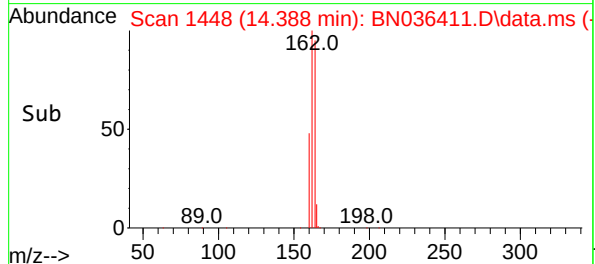
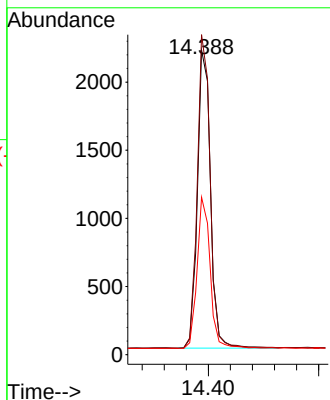
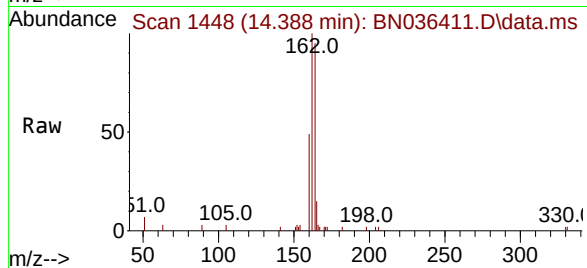




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

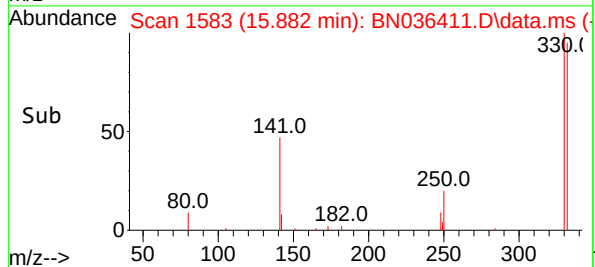
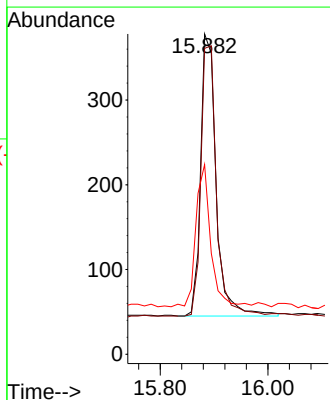
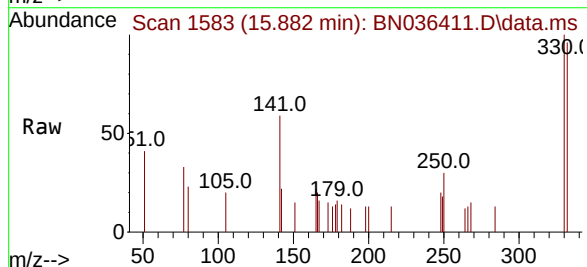
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

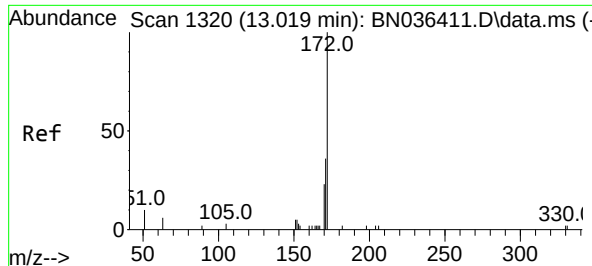
Tgt Ion:164 Resp: 3606
Ion Ratio Lower Upper
164 100
162 105.1 84.1 126.1
160 51.7 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.882 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:330 Resp: 670
Ion Ratio Lower Upper
330 100
332 95.7 76.6 114.8
141 47.3 37.8 56.8

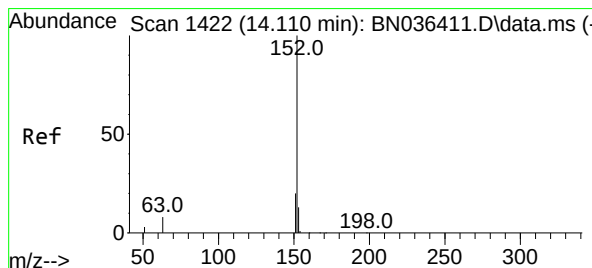
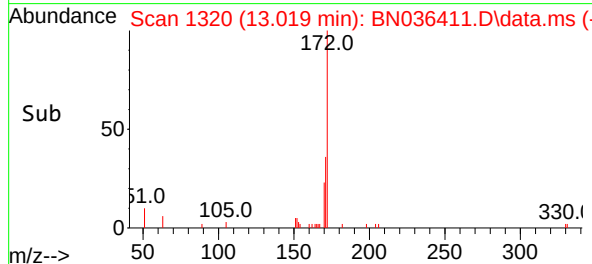
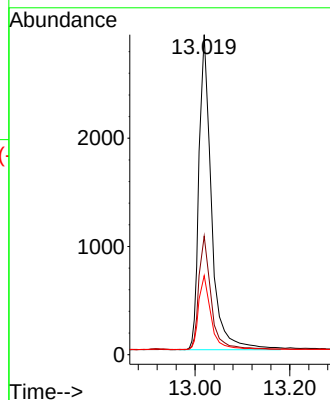
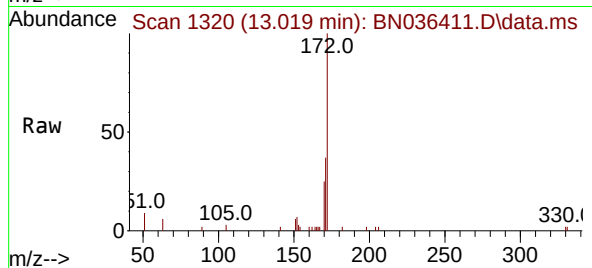




#15
2-Fluorobiphenyl
Concen: 0.323 ng
RT: 13.019 min Scan# 1320
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

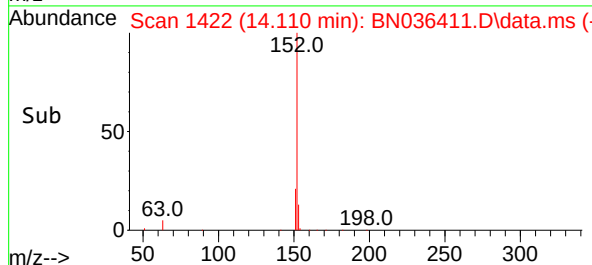
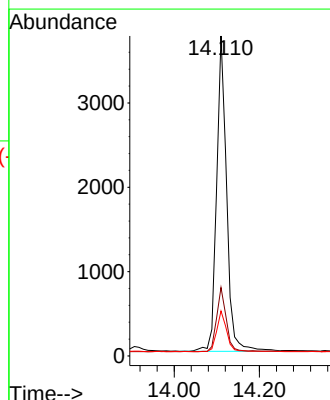
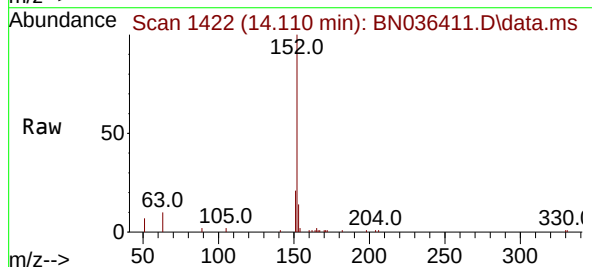
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

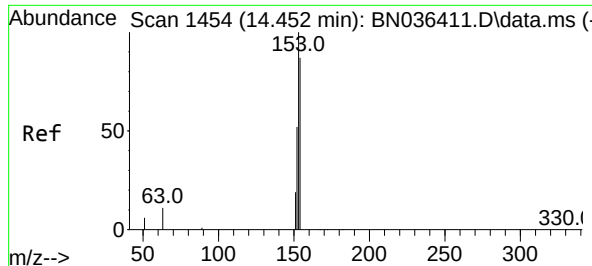
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.0	29.6	44.4
170	24.7	19.8	29.6



#16
Acenaphthylene
Concen: 0.366 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	12.7	10.2	15.2

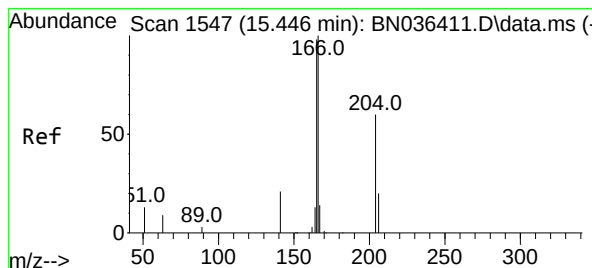
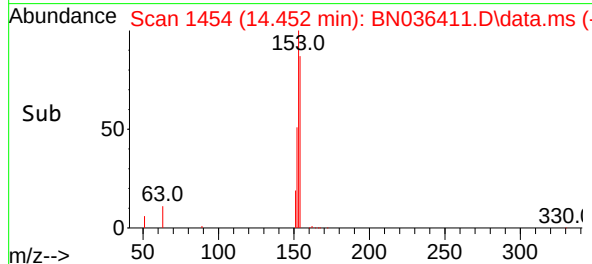
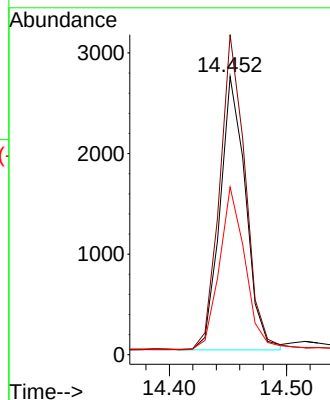
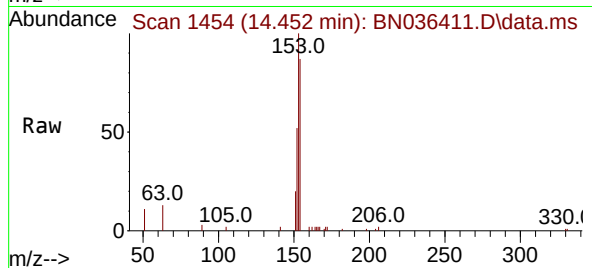




#17
Acenaphthene
Concen: 0.362 ng
RT: 14.452 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

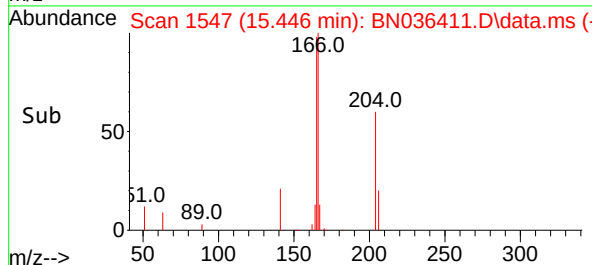
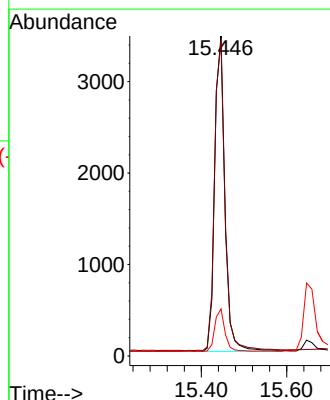
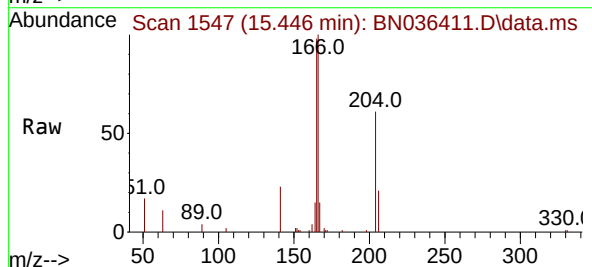
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

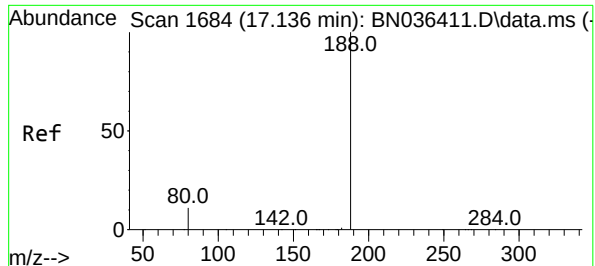
Tgt Ion	154	153	152
Resp:	4132	116.6	61.0
Ion Ratio	100	93.3	48.8
Lower		93.3	48.8
Upper		139.9	73.2



#18
Fluorene
Concen: 0.407 ng
RT: 15.446 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion	166	165	167
Resp:	5991	100.0	13.0
Ion Ratio	100	79.5	10.4
Lower		79.5	10.4
Upper		119.3	15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

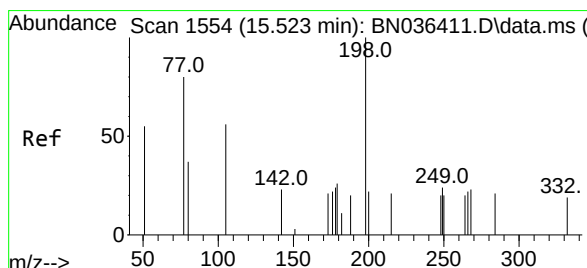
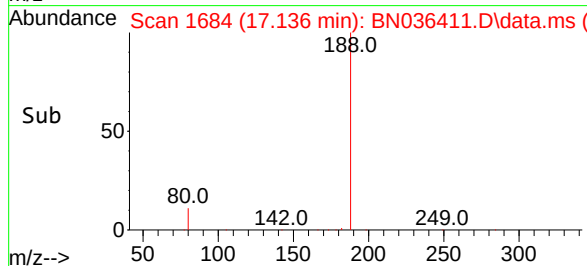
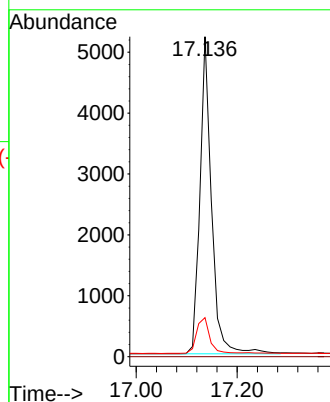
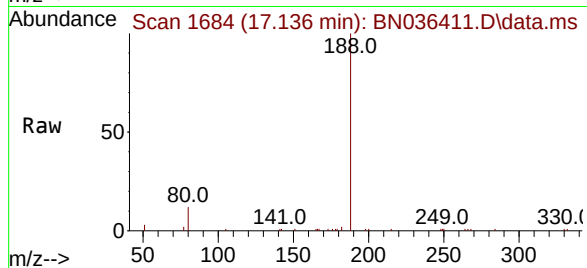
Tgt Ion:188 Resp: 8328

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.2 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.307 ng

RT: 15.523 min Scan# 1554

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

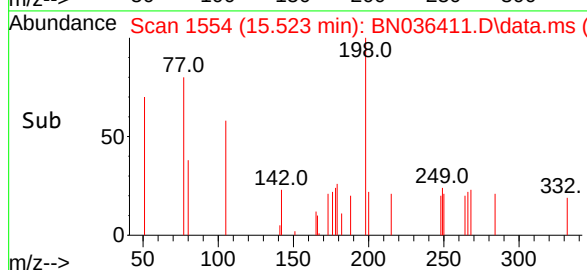
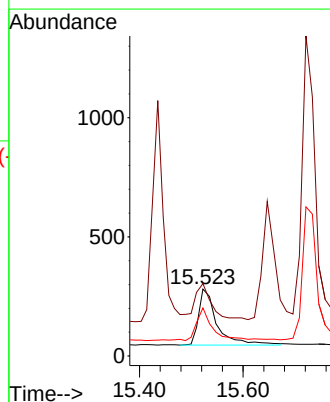
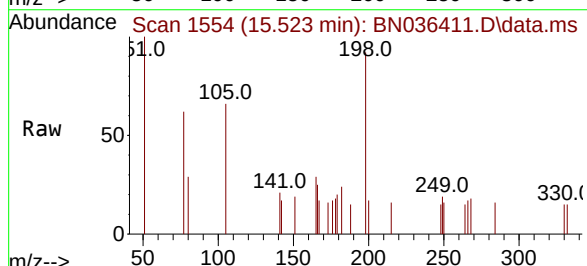
Tgt Ion:198 Resp: 572

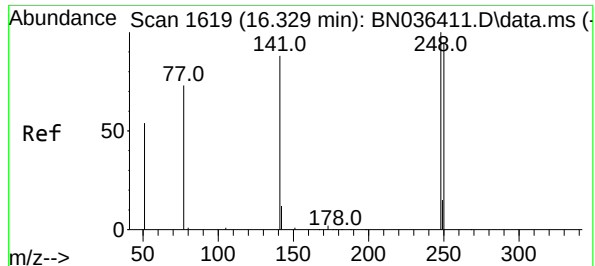
Ion Ratio Lower Upper

198 100

51 108.2 86.6 129.8

105 71.9 57.5 86.3

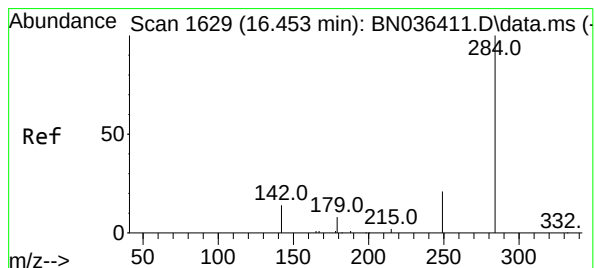
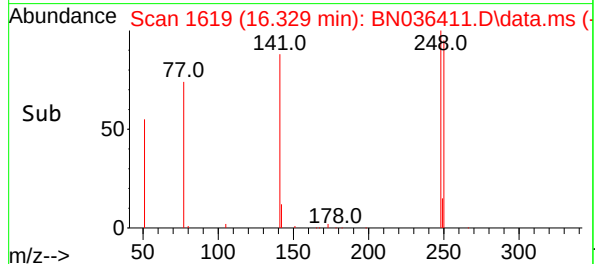
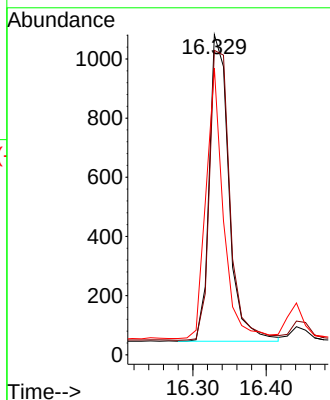
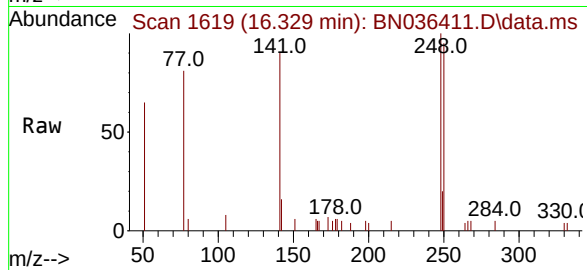




#21
4-Bromophenyl-phenylether
Concen: 0.337 ng
RT: 16.329 min Scan# 1619
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

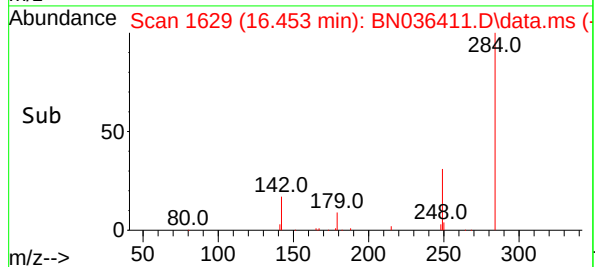
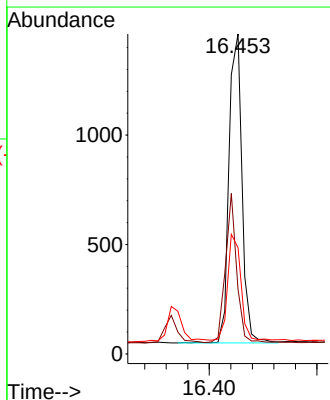
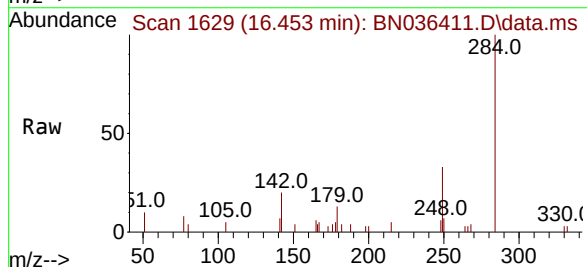
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

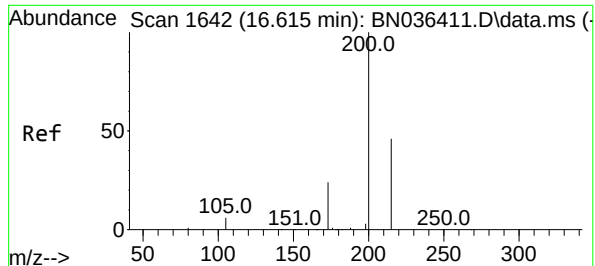
Tgt Ion:248 Resp: 1920
Ion Ratio Lower Upper
248 100
250 95.1 76.1 114.1
141 89.6 71.7 107.5



#22
Hexachlorobenzene
Concen: 0.318 ng
RT: 16.453 min Scan# 1629
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:284 Resp: 2369
Ion Ratio Lower Upper
284 100
142 41.7 33.4 50.0
249 35.4 28.6 43.0

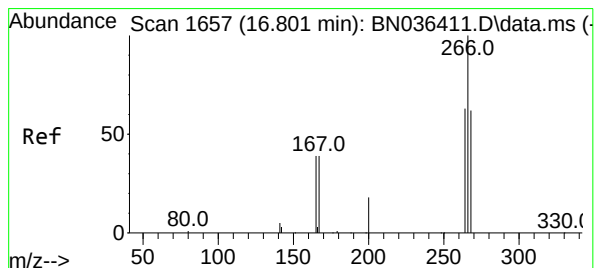
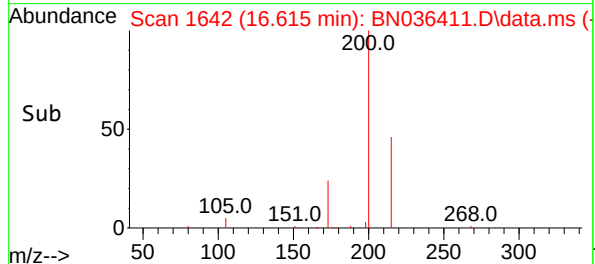
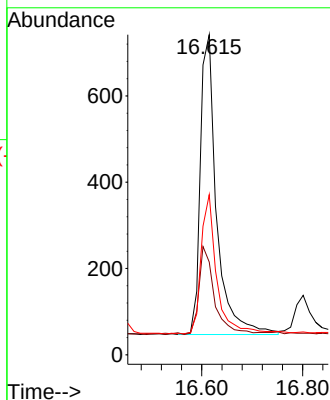
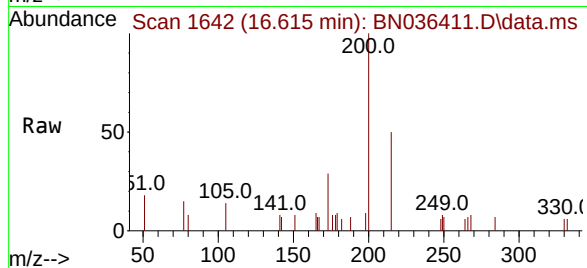




#23
Atrazine
Concen: 0.372 ng
RT: 16.615 min Scan# 1642
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

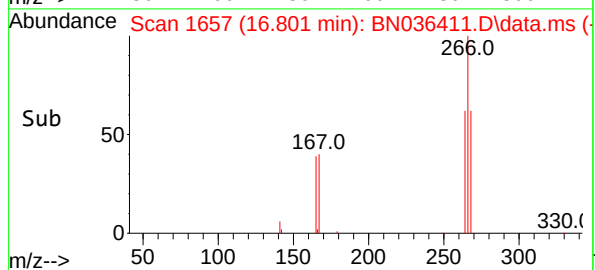
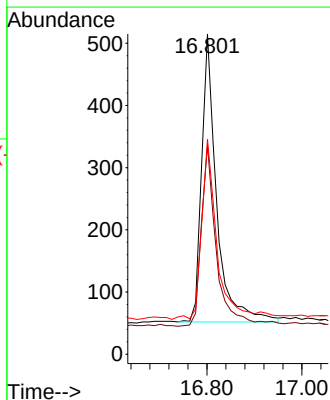
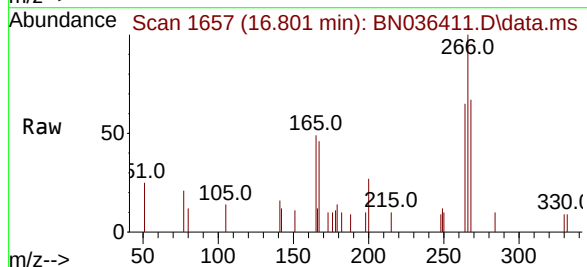
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

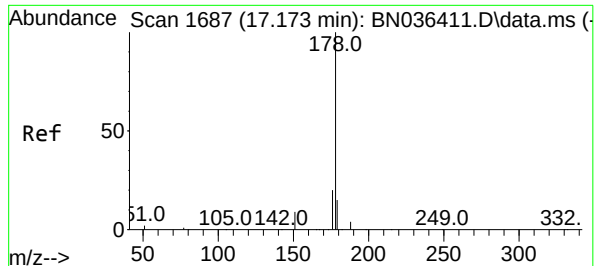
Tgt Ion	Ratio	Lower	Upper
200	100		
173	29.0	23.2	34.8
215	50.0	40.0	60.0



#24
Pentachlorophenol
Concen: 0.313 ng
RT: 16.801 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion	Ratio	Lower	Upper
266	100		
264	64.0	50.6	76.0
268	65.1	51.9	77.9

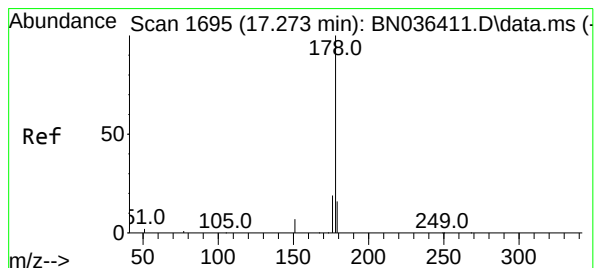
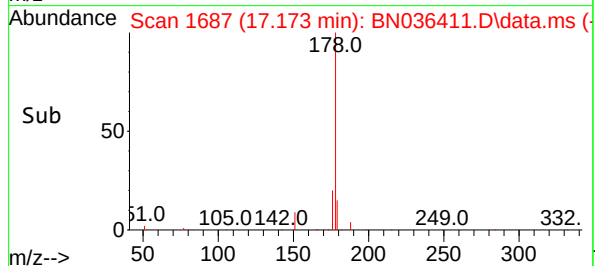
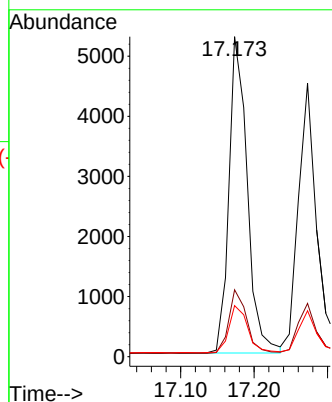
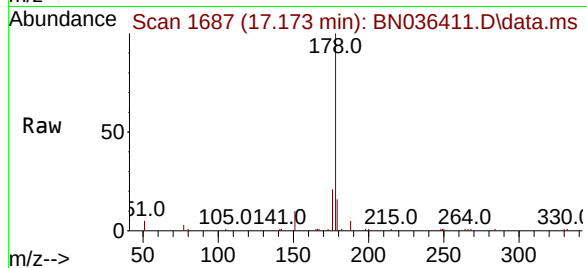




#25
Phenanthrene
Concen: 0.374 ng
RT: 17.173 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

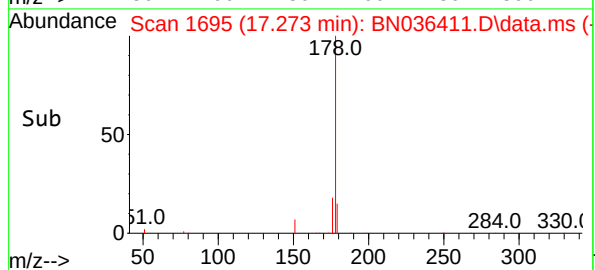
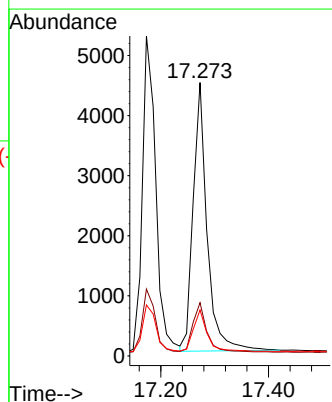
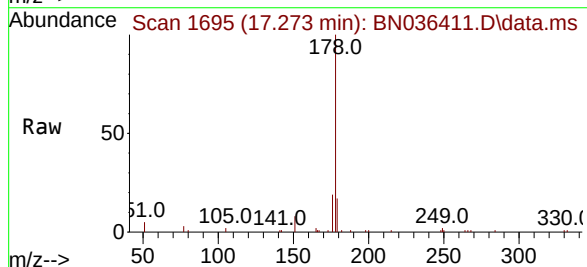
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

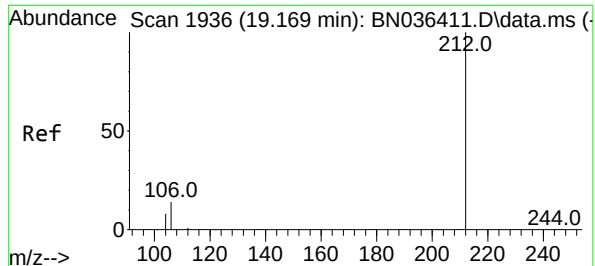
Tgt Ion:178 Resp: 9119
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.5 12.4 18.6



#26
Anthracene
Concen: 0.363 ng
RT: 17.273 min Scan# 1695
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:178 Resp: 8056
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.3 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.413 ng

RT: 19.169 min Scan# 1936

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

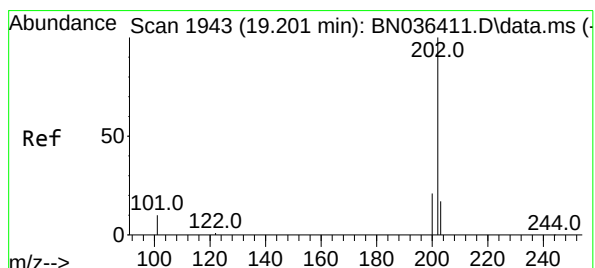
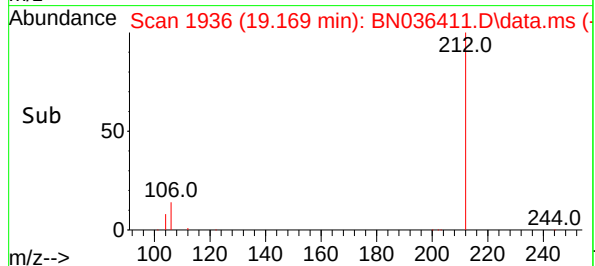
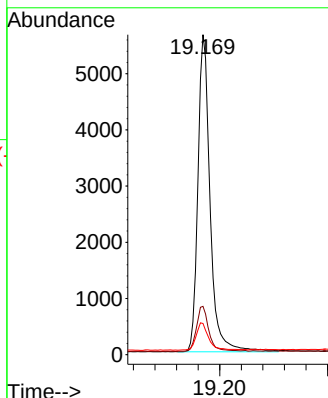
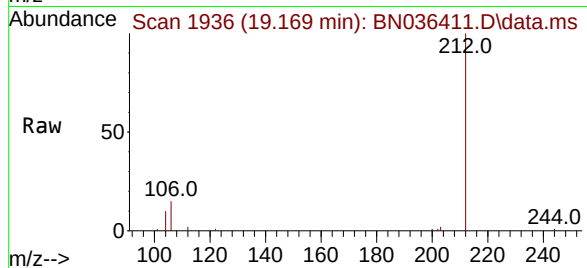
Tgt Ion:212 Resp: 8851

Ion Ratio Lower Upper

212 100

106 14.4 11.5 17.3

104 8.9 7.1 10.7



#28

Fluoranthene

Concen: 0.389 ng

RT: 19.201 min Scan# 1943

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

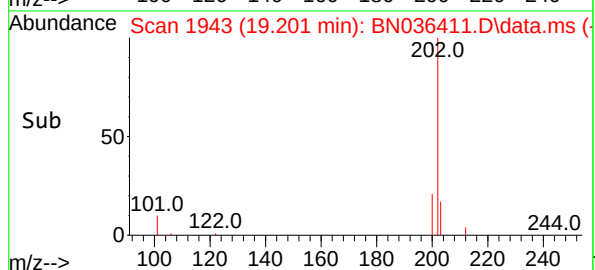
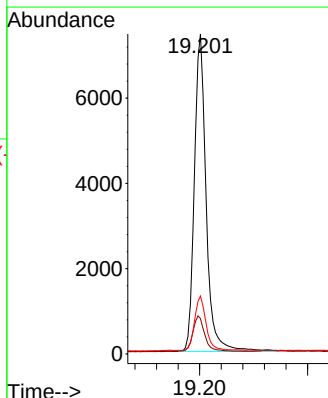
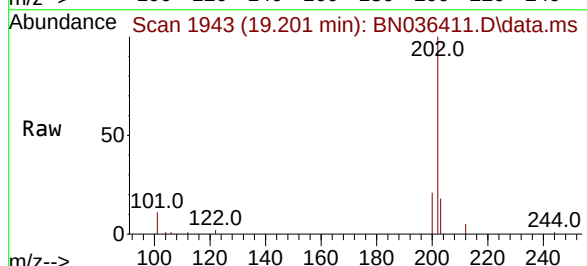
Tgt Ion:202 Resp: 11264

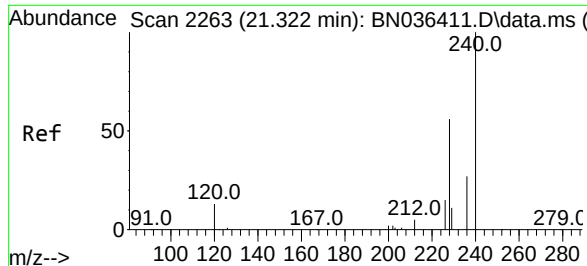
Ion Ratio Lower Upper

202 100

101 11.5 9.2 13.8

203 16.7 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

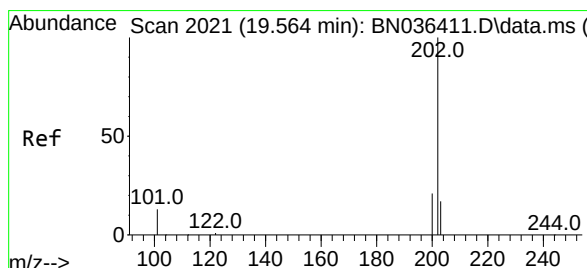
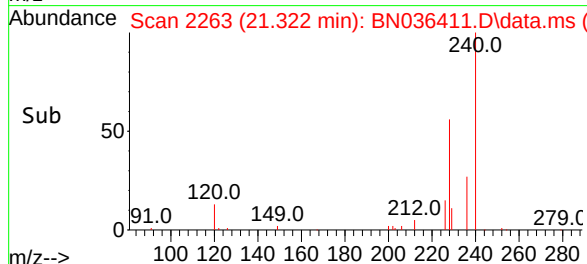
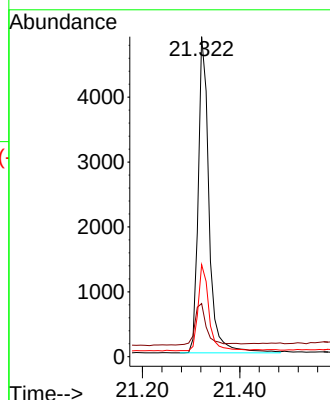
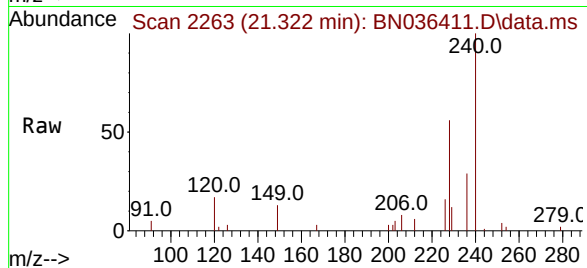
Tgt Ion:240 Resp: 7484

Ion Ratio Lower Upper

240 100

120 16.6 13.3 19.9

236 28.8 23.0 34.6



#30

Pyrene

Concen: 0.384 ng

RT: 19.564 min Scan# 2021

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

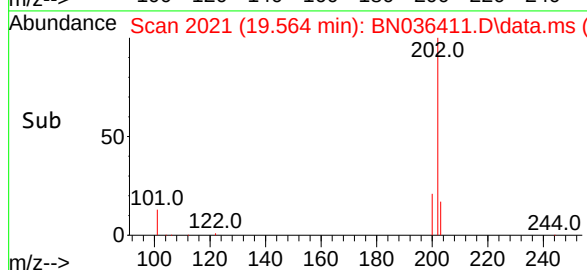
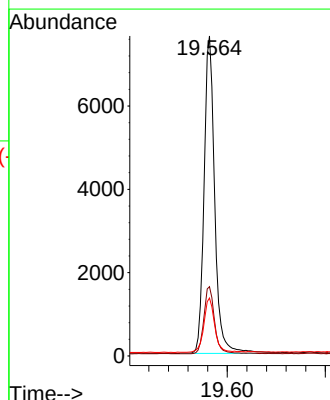
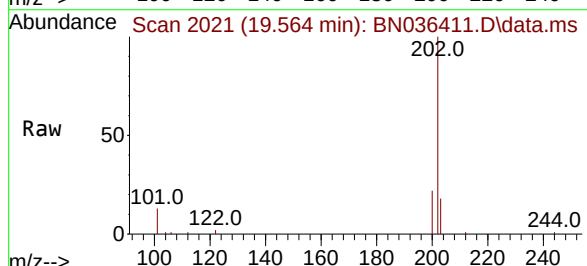
Tgt Ion:202 Resp: 11479

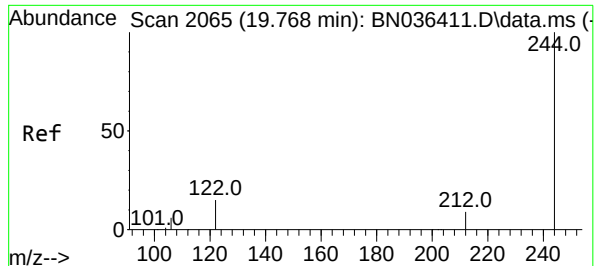
Ion Ratio Lower Upper

202 100

200 21.1 16.9 25.3

203 17.4 13.9 20.9

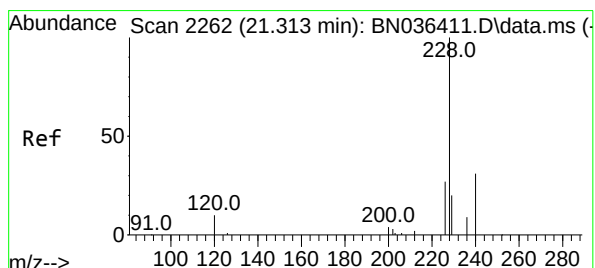
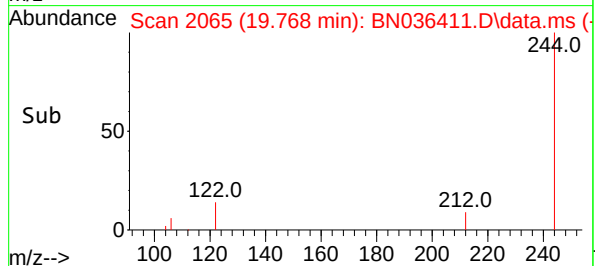
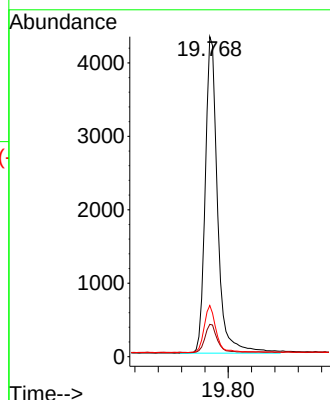
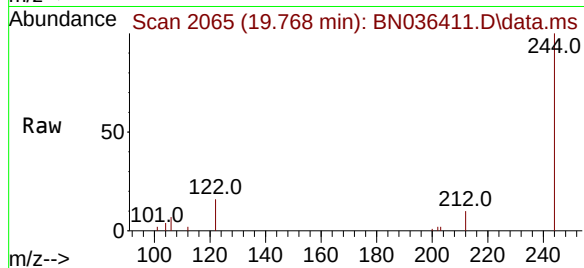




#31
Terphenyl-d14
Concen: 0.412 ng
RT: 19.768 min Scan# 2065
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

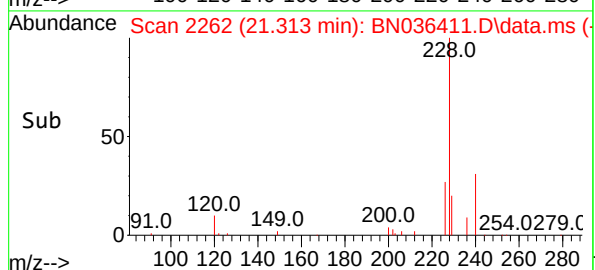
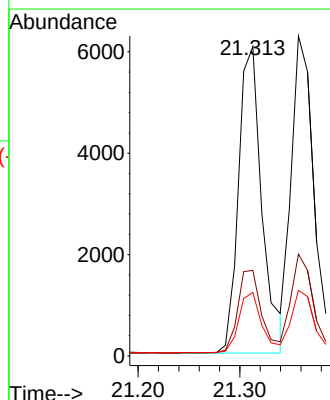
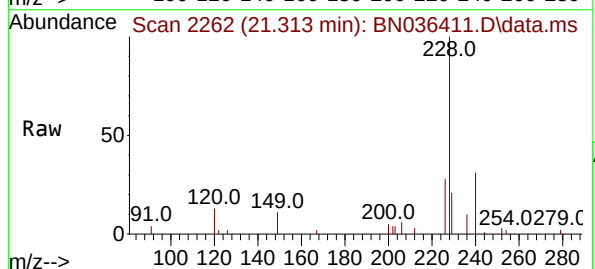
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

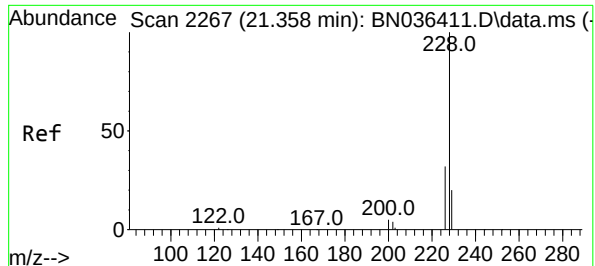
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	16.0	12.8	19.2



#32
Benzo(a)anthracene
Concen: 0.364 ng
RT: 21.313 min Scan# 2262
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.2
229	20.6	16.5	24.7





#33

Chrysene

Concen: 0.373 ng

RT: 21.358 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

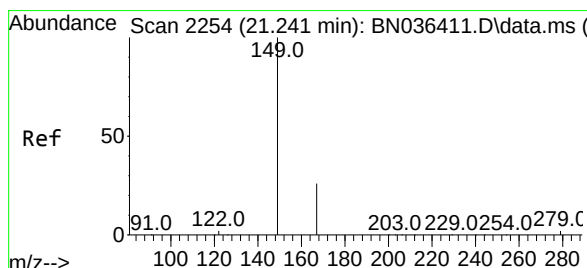
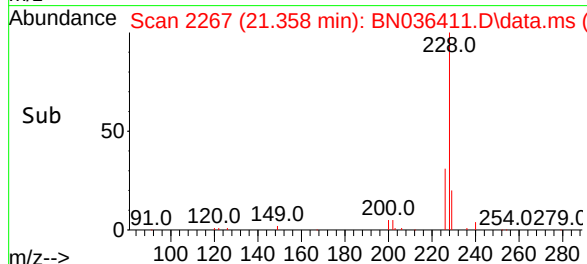
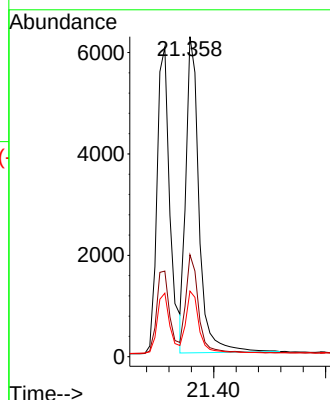
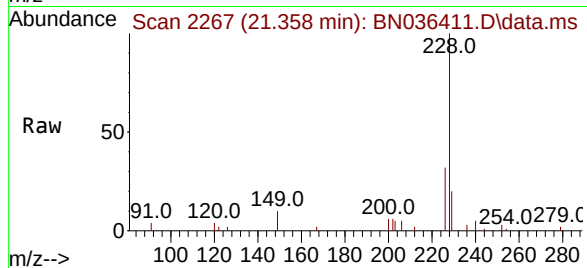
Tgt Ion:228 Resp: 10178

Ion Ratio Lower Upper

228 100

226 31.9 25.5 38.3

229 20.5 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.392 ng

RT: 21.241 min Scan# 2254

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

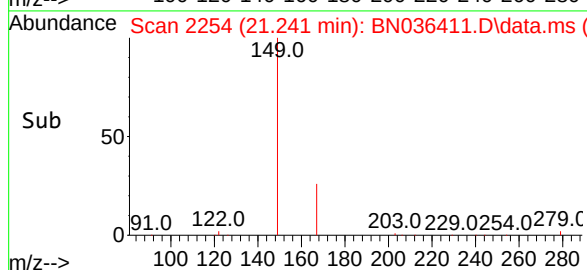
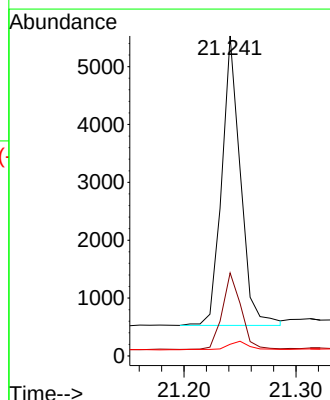
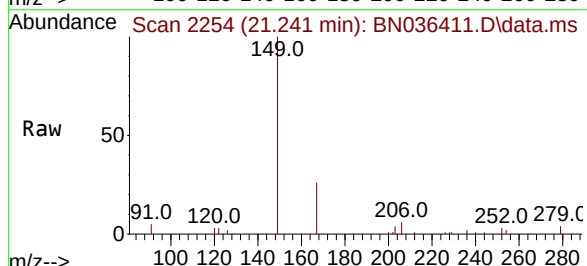
Tgt Ion:149 Resp: 5815

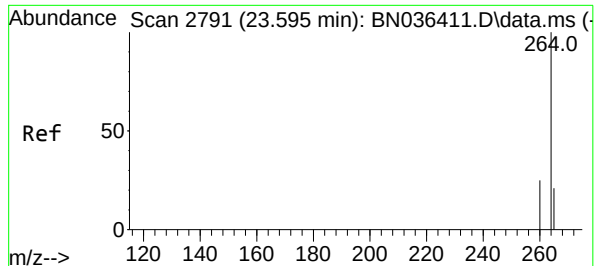
Ion Ratio Lower Upper

149 100

167 26.5 21.2 31.8

279 3.4 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.595 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

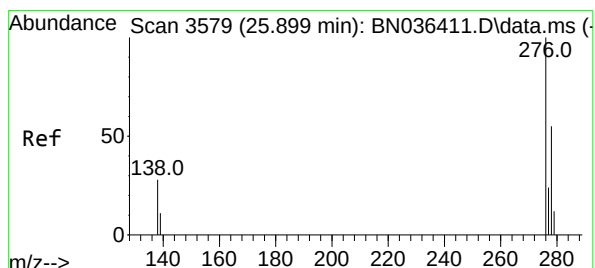
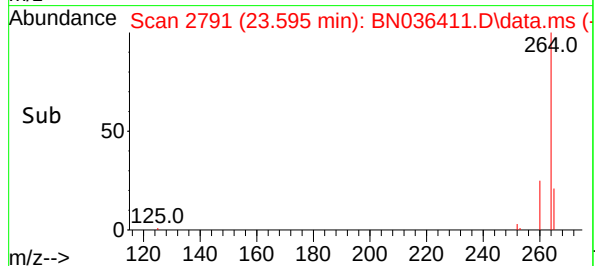
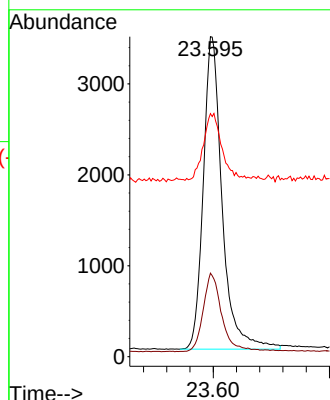
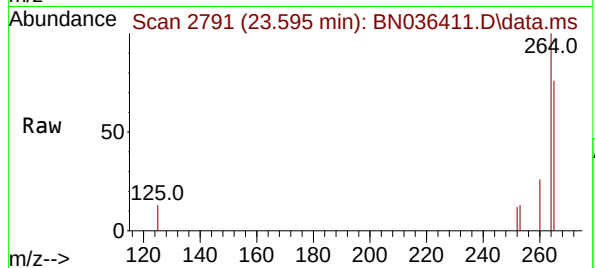
Tgt Ion:264 Resp: 7735

Ion Ratio Lower Upper

264 100

260 26.1 20.9 31.3

265 75.9 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.351 ng

RT: 25.899 min Scan# 3579

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

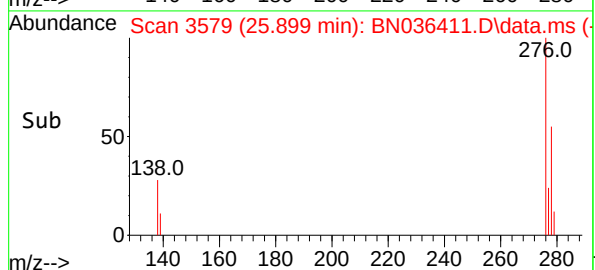
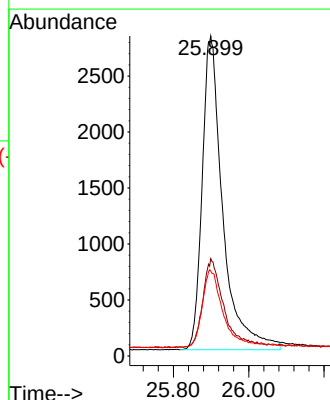
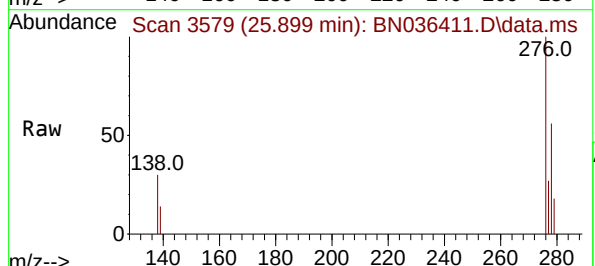
Tgt Ion:276 Resp: 10661

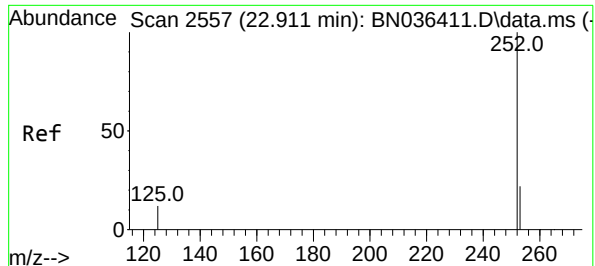
Ion Ratio Lower Upper

276 100

138 27.8 22.2 33.2

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.355 ng

RT: 22.911 min Scan# 2557

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

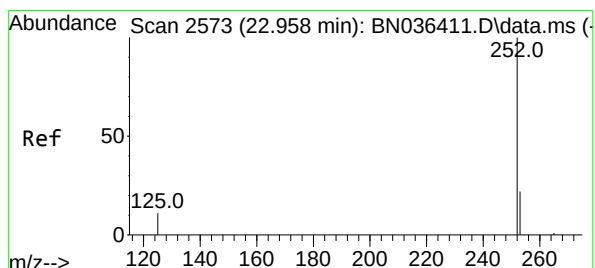
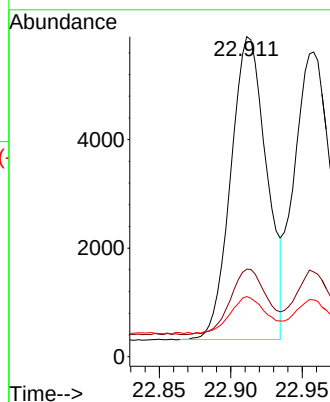
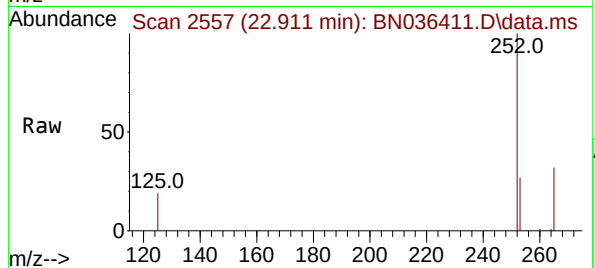
Tgt Ion:252 Resp: 9743

Ion Ratio Lower Upper

252 100

253 27.4 21.9 32.9

125 18.8 15.0 22.6



#38

Benzo(k)fluoranthene

Concen: 0.377 ng

RT: 22.958 min Scan# 2573

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

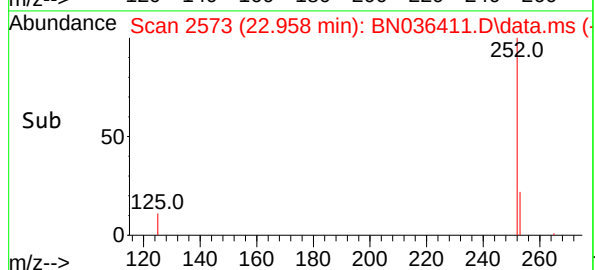
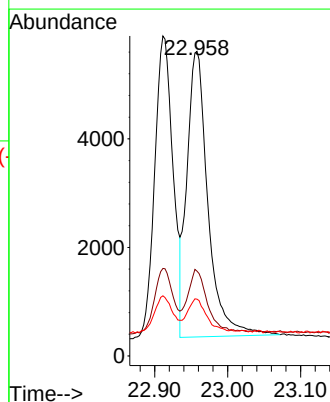
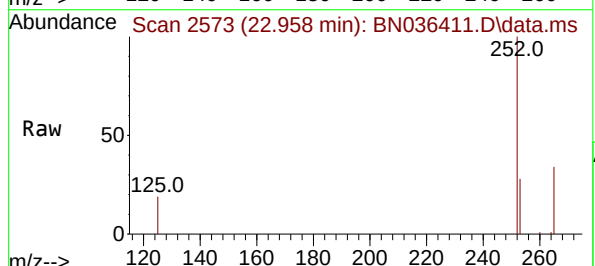
Tgt Ion:252 Resp: 10543

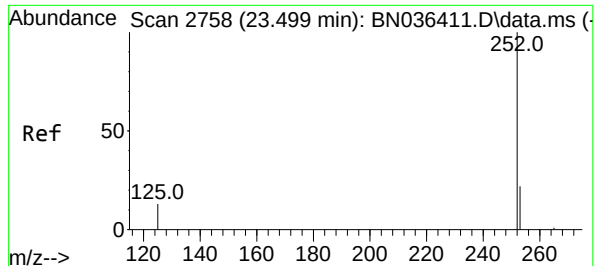
Ion Ratio Lower Upper

252 100

253 27.8 22.2 33.4

125 18.7 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.362 ng

RT: 23.499 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

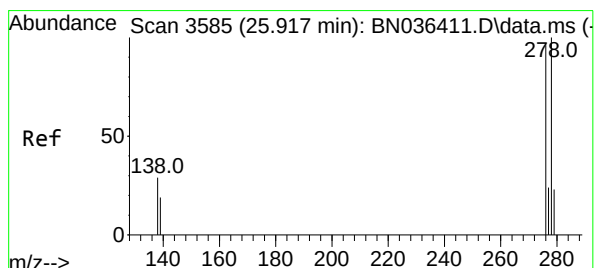
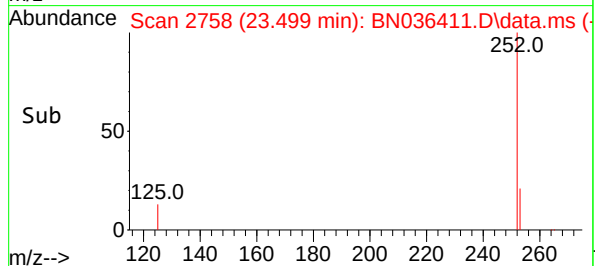
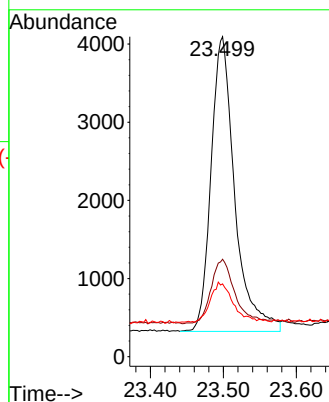
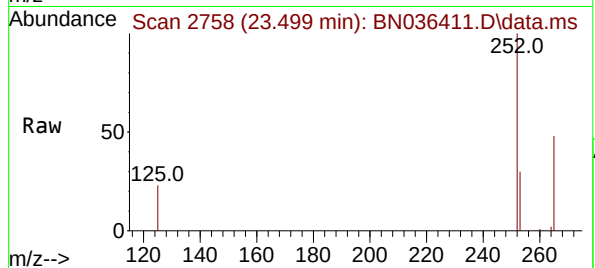
Tgt Ion:252 Resp: 8521

Ion Ratio Lower Upper

252 100

253 30.5 24.4 36.6

125 22.7 18.2 27.2



#40

Dibenzo(a,h)anthracene

Concen: 0.344 ng

RT: 25.917 min Scan# 3585

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

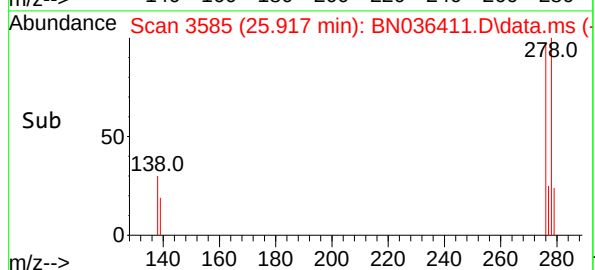
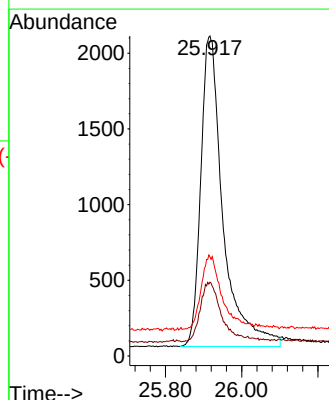
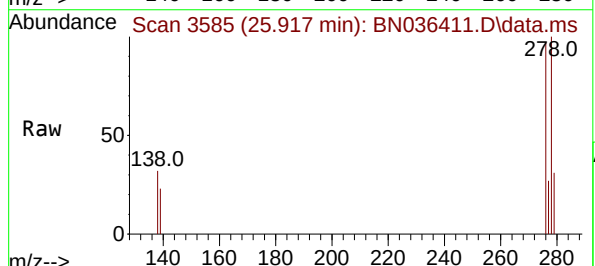
Tgt Ion:278 Resp: 8314

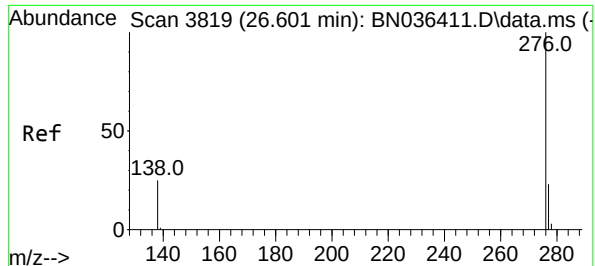
Ion Ratio Lower Upper

278 100

139 23.1 18.5 27.7

279 31.0 24.8 37.2





#41

Benzo(g,h,i)perylene

Concen: 0.366 ng

RT: 26.601 min Scan# 3819

Delta R.T. 0.000 min

Lab File: BN036411.D

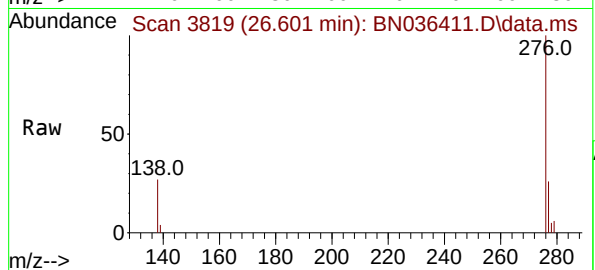
Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



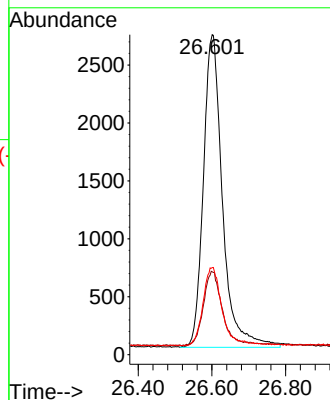
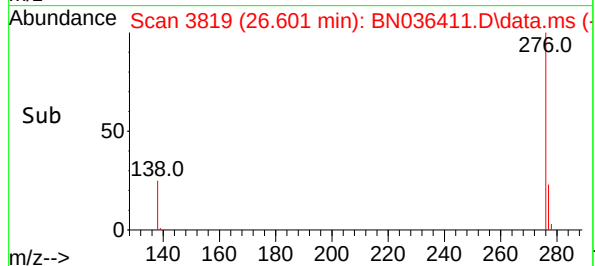
Tgt Ion:276 Resp: 9701

Ion Ratio Lower Upper

276 100

277 25.9 20.7 31.1

138 27.2 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036412.D
 Acq On : 10 Feb 2025 14:12
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Feb 11 00:36:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

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

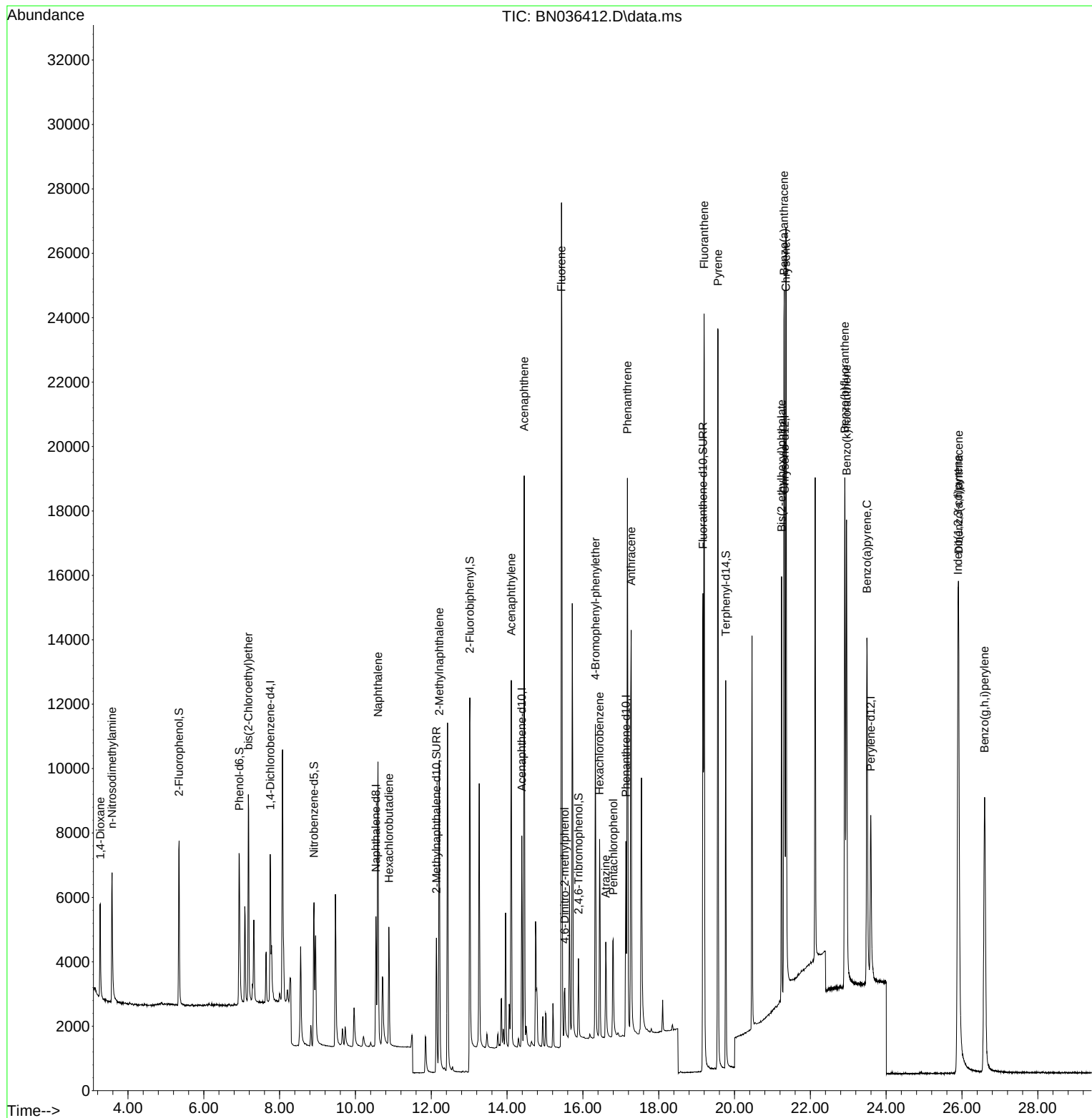
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2190	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	5510	0.400	ng	0.00
13) Acenaphthene-d10	14.388	164	3611	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	8139	0.400	ng	0.00
29) Chrysene-d12	21.322	240	7521	0.400	ng	0.00
35) Perylene-d12	23.595	264	7758	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	4030	0.723	ng	0.00
5) Phenol-d6	6.937	99	4653	0.715	ng	0.00
8) Nitrobenzene-d5	8.907	82	4082	0.795	ng	0.00
11) 2-Methylnaphthalene-d10	12.136	152	6480	0.860	ng	0.00
14) 2,4,6-Tribromophenol	15.883	330	1331	0.598	ng	0.00
15) 2-Fluorobiphenyl	13.019	172	10765	0.699	ng	0.00
27) Fluoranthene-d10	19.169	212	17242	0.823	ng	0.00
31) Terphenyl-d14	19.768	244	12467	0.800	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.268	88	1812	0.748	ng	99
3) n-Nitrosodimethylamine	3.579	42	3171	0.729	ng	# 98
6) bis(2-Chloroethyl)ether	7.176	93	4947	0.915	ng	97
9) Naphthalene	10.594	128	11992	0.762	ng	98
10) Hexachlorobutadiene	10.883	225	2996	0.608	ng	# 100
12) 2-Methylnaphthalene	12.212	142	7947	0.804	ng	97
16) Acenaphthylene	14.110	152	12153	0.727	ng	99
17) Acenaphthene	14.452	154	8143	0.712	ng	98
18) Fluorene	15.435	166	11752	0.798	ng	100
20) 4,6-Dinitro-2-methylph...	15.523	198	1199	0.658	ng	# 66
21) 4-Bromophenyl-phenylether	16.329	248	3776	0.677	ng	94
22) Hexachlorobenzene	16.441	284	4670	0.642	ng	96
23) Atrazine	16.602	200	3020	0.737	ng	94
24) Pentachlorophenol	16.801	266	1989	0.625	ng	99
25) Phenanthrene	17.173	178	18094	0.758	ng	99
26) Anthracene	17.273	178	15928	0.735	ng	99
28) Fluoranthene	19.197	202	22075	0.781	ng	99
30) Pyrene	19.564	202	22410	0.746	ng	99
32) Benzo(a)anthracene	21.304	228	18881	0.707	ng	98
33) Chrysene	21.358	228	21269	0.776	ng	97
34) Bis(2-ethylhexyl)phtha...	21.241	149	11207	0.752	ng	99
36) Indeno(1,2,3-cd)pyrene	25.893	276	21570	0.708	ng	98
37) Benzo(b)fluoranthene	22.908	252	20019	0.727	ng	# 93
38) Benzo(k)fluoranthene	22.955	252	20570	0.733	ng	# 93
39) Benzo(a)pyrene	23.493	252	17289	0.731	ng	# 91
40) Dibenzo(a,h)anthracene	25.911	278	16872	0.697	ng	93
41) Benzo(g,h,i)perylene	26.598	276	19078	0.718	ng	98

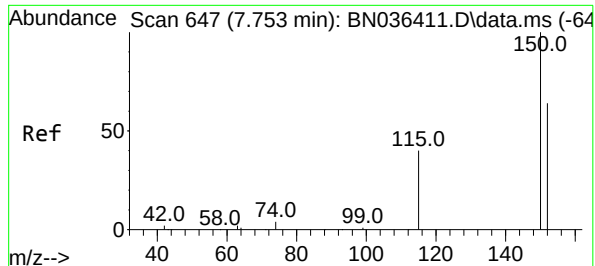
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036412.D
Acq On : 10 Feb 2025 14:12
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Feb 11 00:36:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

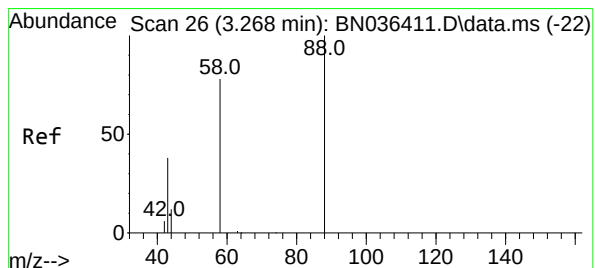
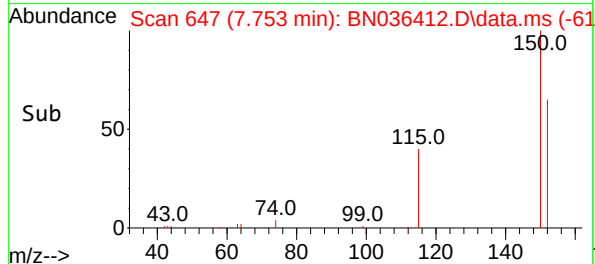
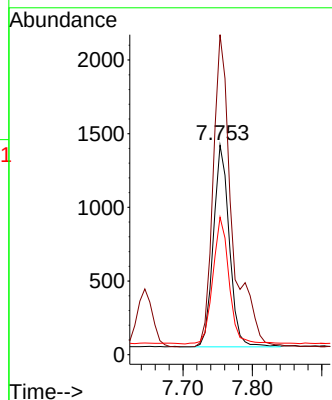
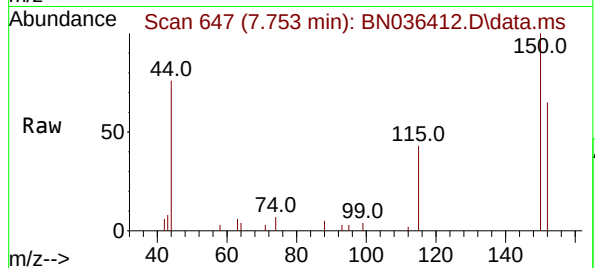




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

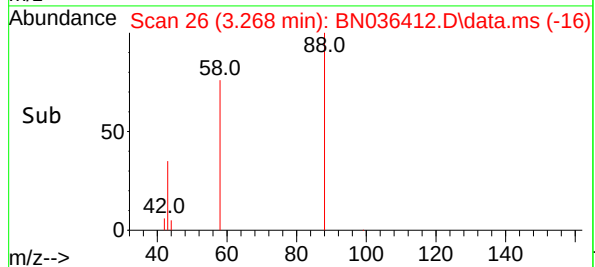
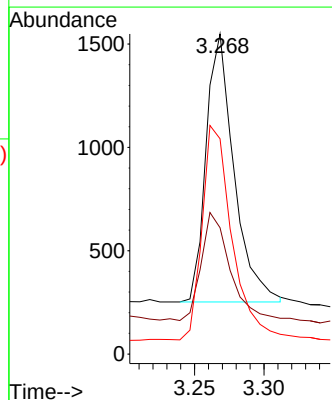
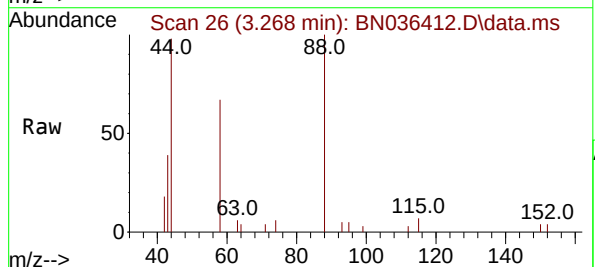
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

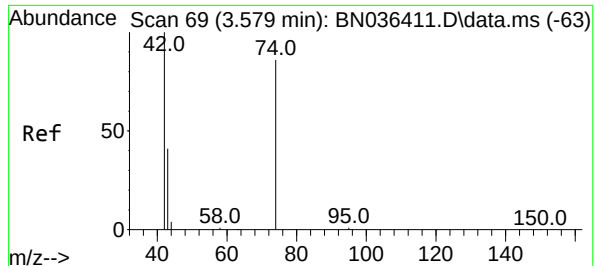
Tgt Ion:152 Resp: 2190
Ion Ratio Lower Upper
152 100
150 152.7 123.7 185.5
115 65.6 52.5 78.7



#2
1,4-Dioxane
Concen: 0.748 ng
RT: 3.268 min Scan# 26
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion: 88 Resp: 1812
Ion Ratio Lower Upper
88 100
43 41.0 33.7 50.5
58 86.3 68.9 103.3

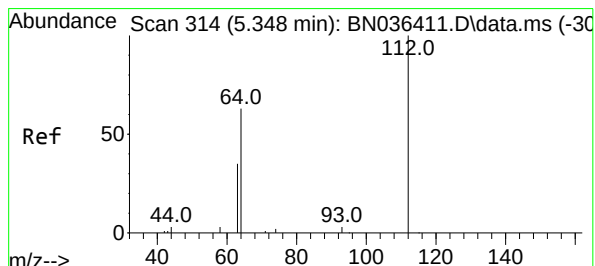
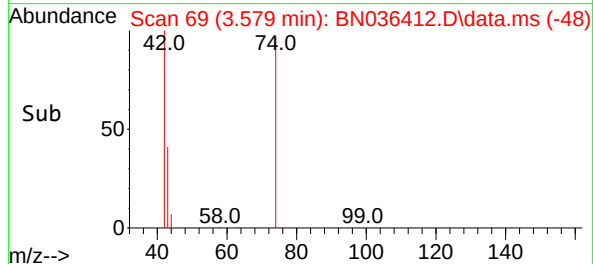
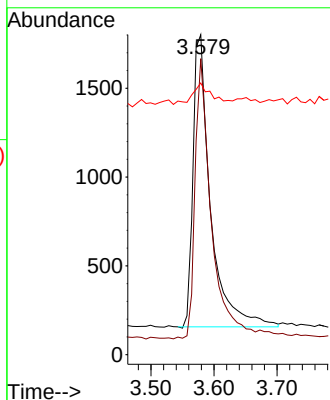
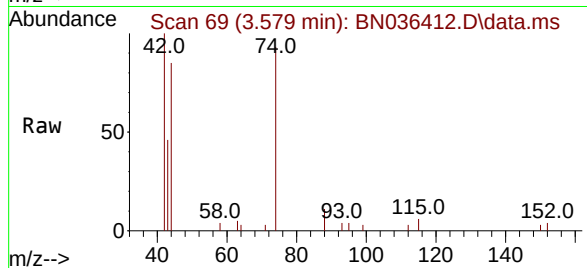




#3
n-Nitrosodimethylamine
Concen: 0.729 ng
RT: 3.579 min Scan# 69
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

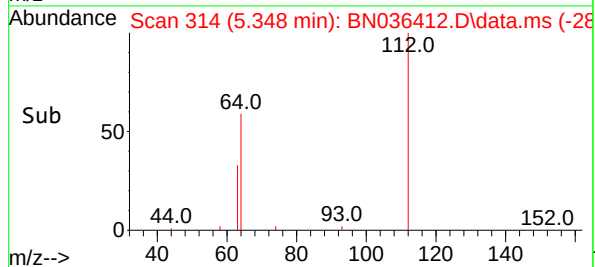
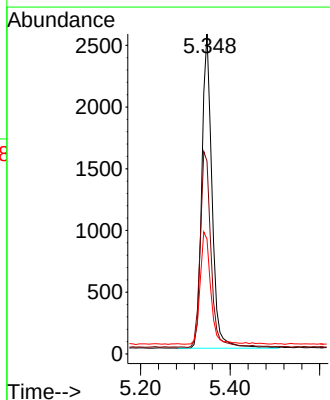
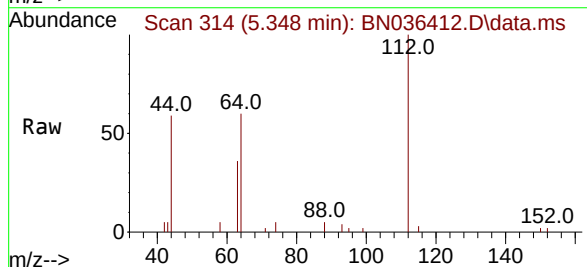
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

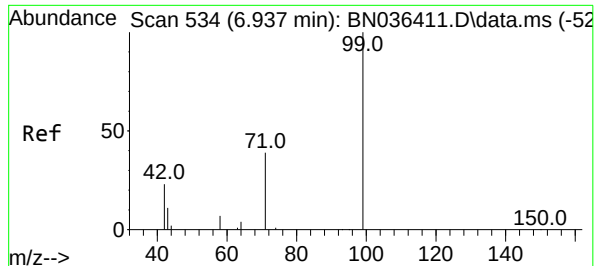
Tgt Ion: 42 Resp: 3171
Ion Ratio Lower Upper
42 100
74 91.4 71.8 107.6
44 7.2 7.8 11.6#



#4
2-Fluorophenol
Concen: 0.723 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion: 112 Resp: 4030
Ion Ratio Lower Upper
112 100
64 65.3 53.4 80.0
63 36.6 30.3 45.5

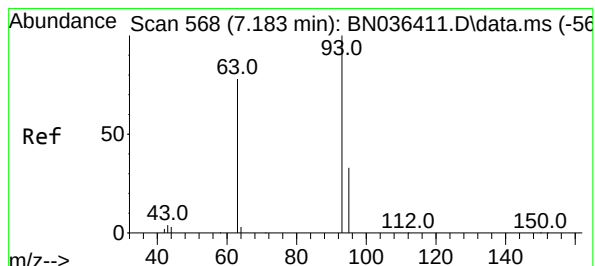
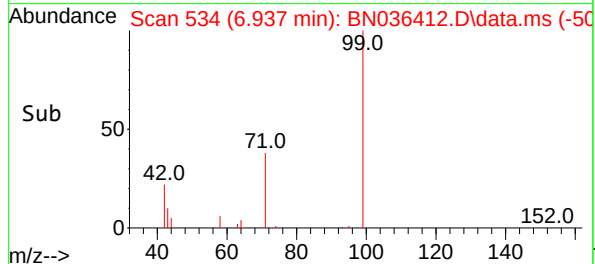
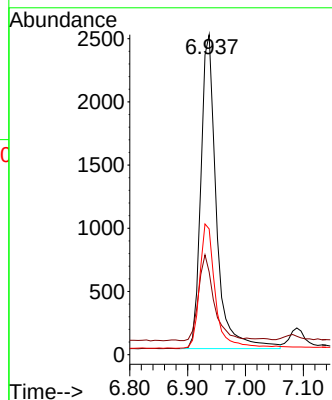
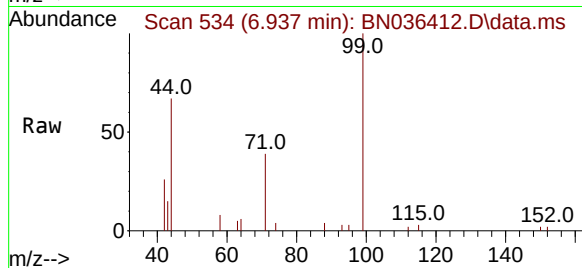




#5
Phenol-d6
Concen: 0.715 ng
RT: 6.937 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

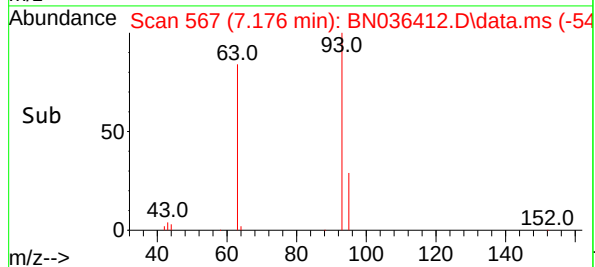
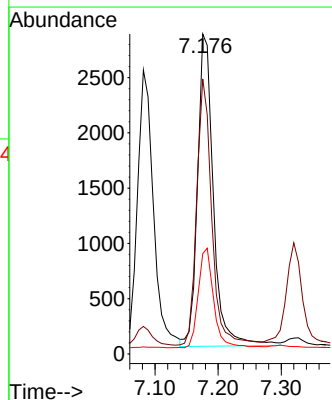
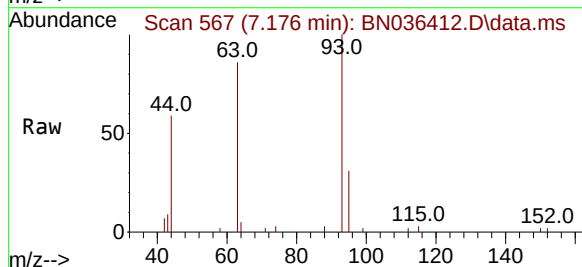
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

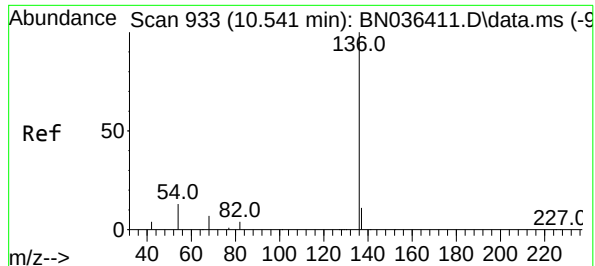
Tgt Ion	Ratio	Lower	Upper
99	100		
42	27.6	21.7	32.5
71	40.0	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.915 ng
RT: 7.176 min Scan# 567
Delta R.T. -0.007 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion	Ratio	Lower	Upper
93	100		
63	80.8	66.3	99.5
95	31.0	26.2	39.4

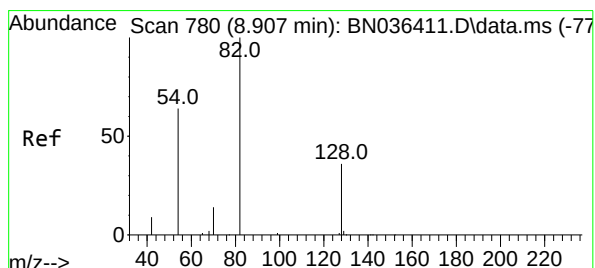
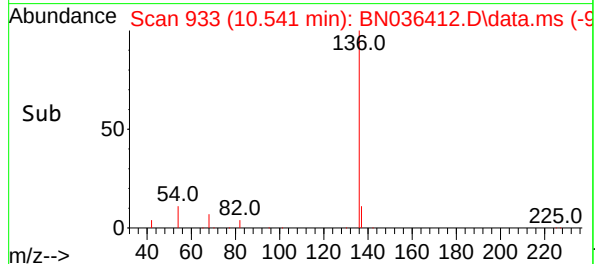
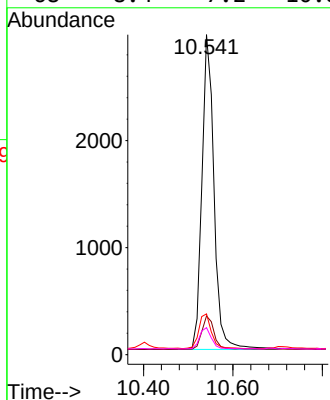
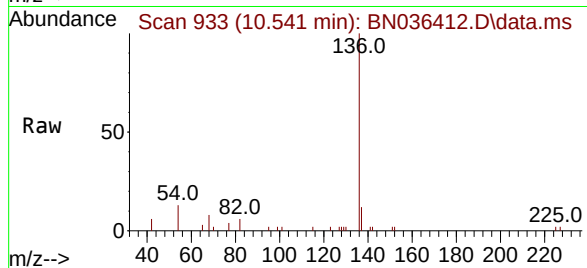




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

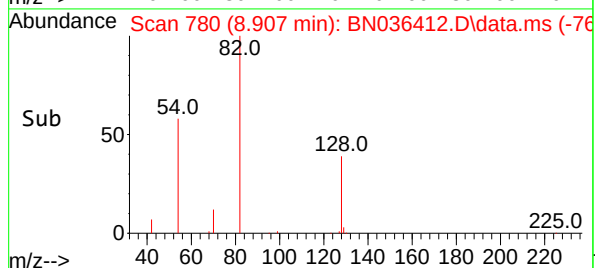
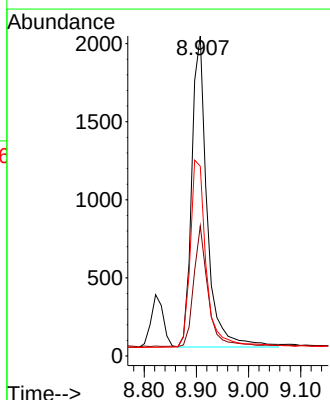
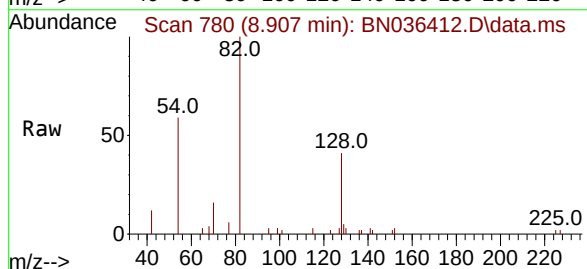
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

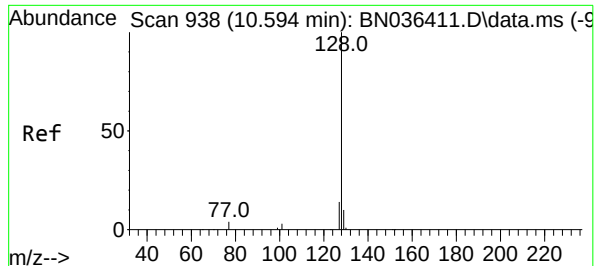
Tgt Ion:	136	Resp:	5510
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.1	15.1
54	12.7	11.8	17.6
68	8.4	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.795 ng
RT: 8.907 min Scan# 780
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:	82	Resp:	4082
Ion	Ratio	Lower	Upper
82	100		
128	40.7	31.9	47.9
54	59.3	53.1	79.7





#9

Naphthalene

Concen: 0.762 ng

RT: 10.594 min Scan# 938

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

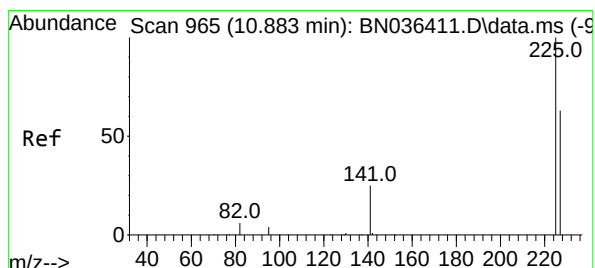
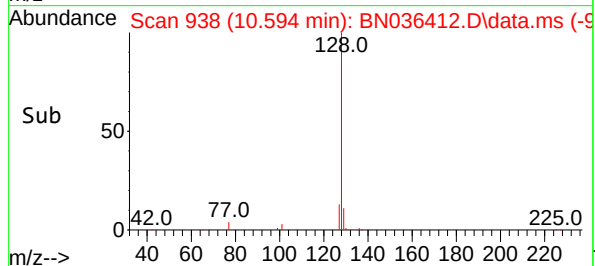
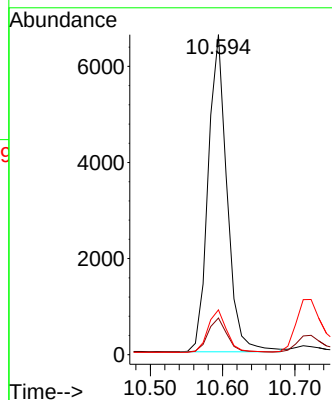
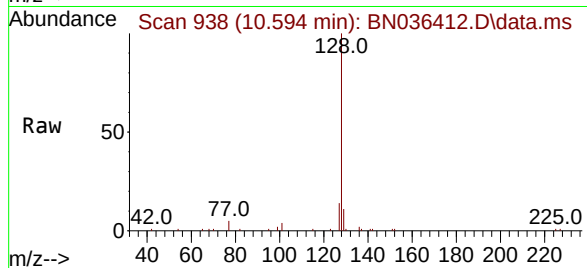
Tgt Ion:128 Resp: 11992

Ion Ratio Lower Upper

128 100

129 11.5 9.6 14.4

127 14.0 12.0 18.0



#10

Hexachlorobutadiene

Concen: 0.608 ng

RT: 10.883 min Scan# 965

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

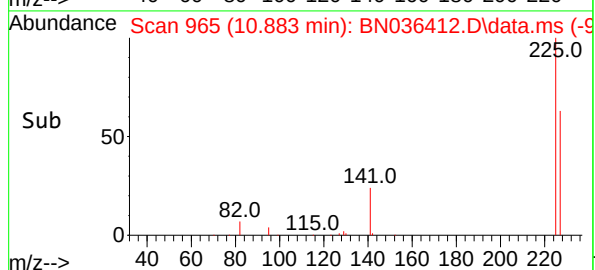
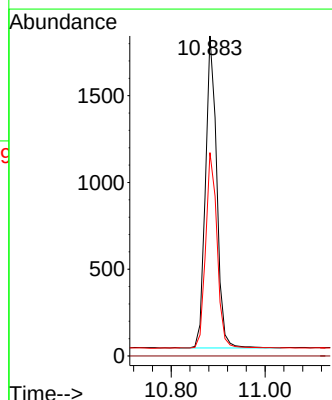
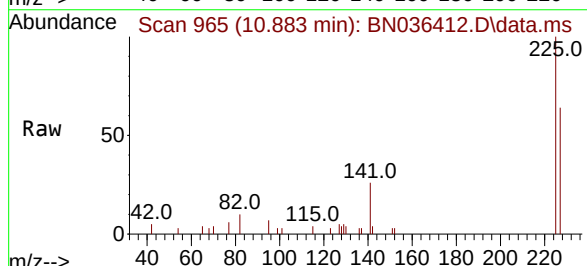
Tgt Ion:225 Resp: 2996

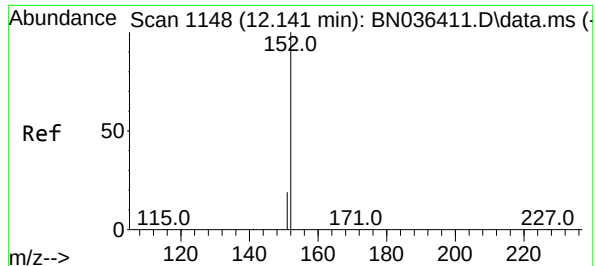
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.0 50.9 76.3

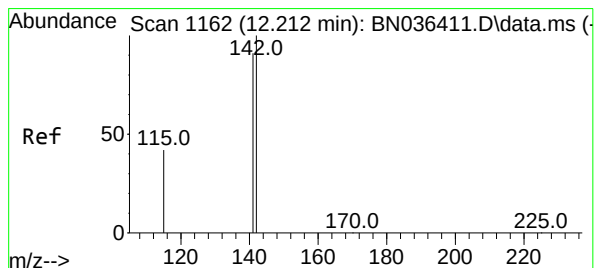
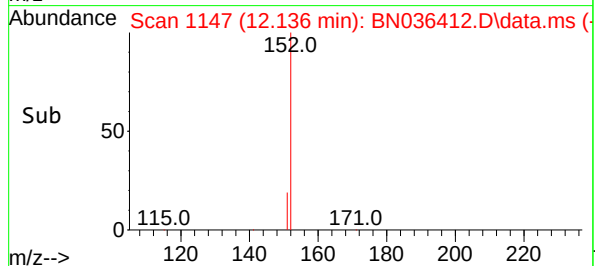
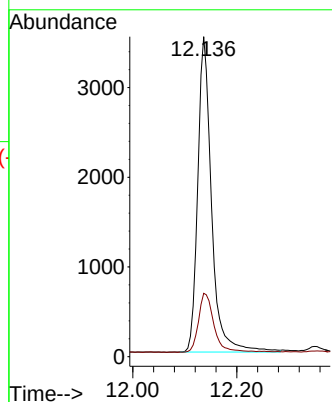
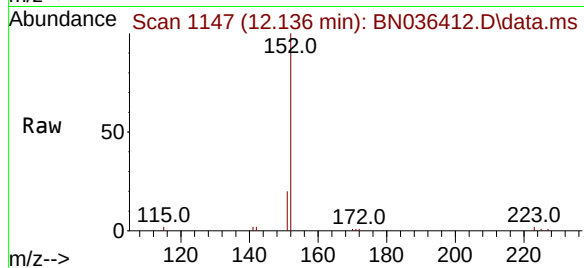




#11
2-Methylnaphthalene-d10
Concen: 0.860 ng
RT: 12.136 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

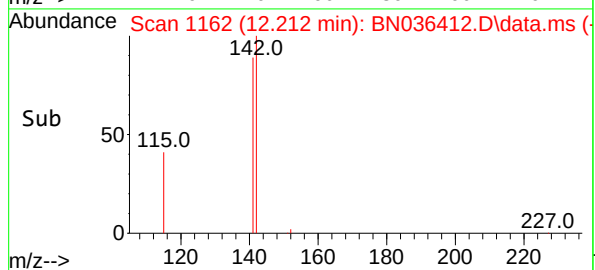
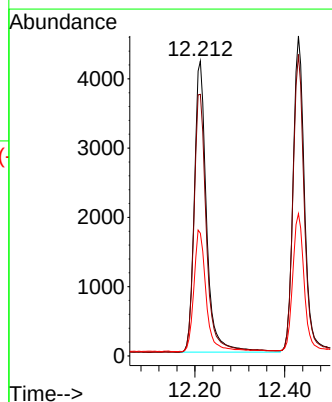
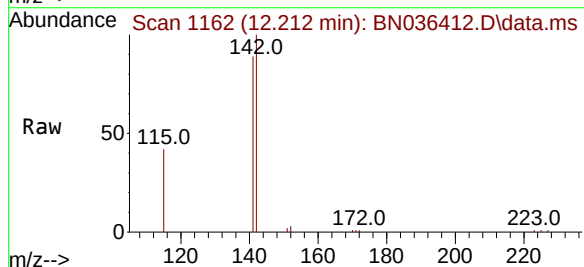
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

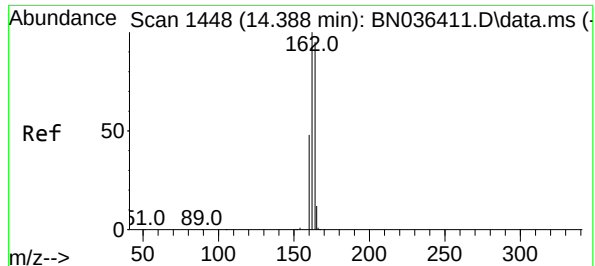
Tgt Ion:152 Resp: 6480
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.804 ng
RT: 12.212 min Scan# 1162
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:142 Resp: 7947
Ion Ratio Lower Upper
142 100
141 88.7 72.8 109.2
115 41.6 35.5 53.3

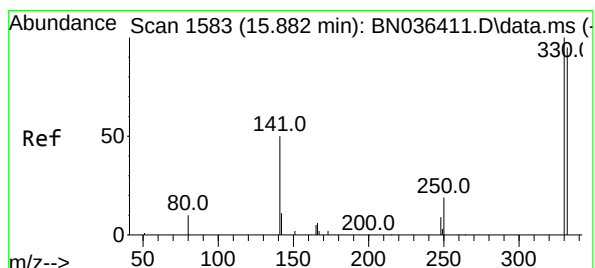
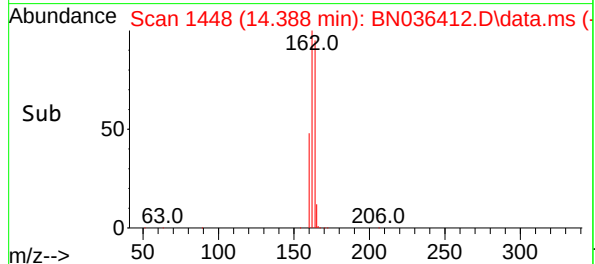
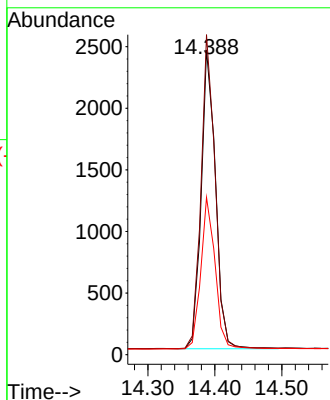
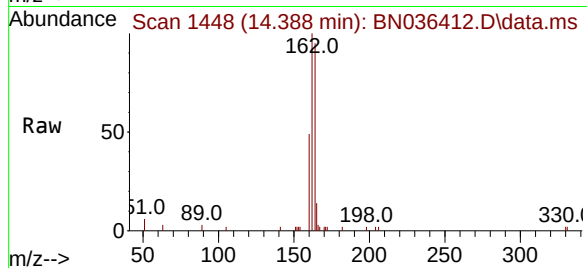




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

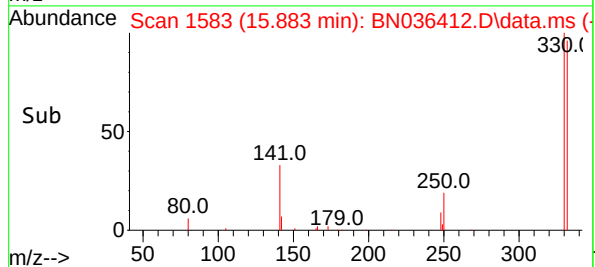
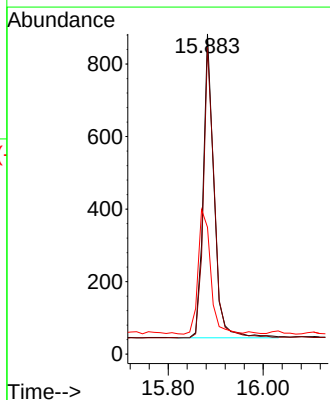
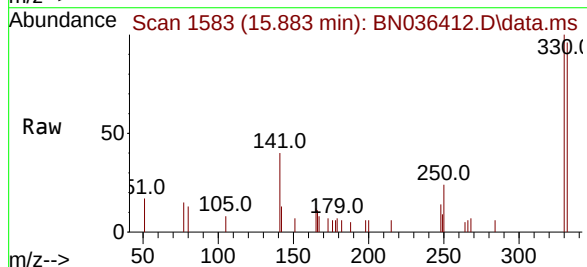
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

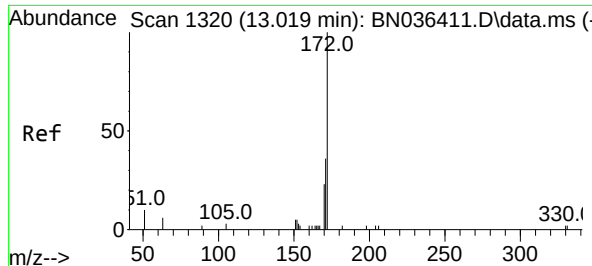
Tgt Ion:164 Resp: 3611
Ion Ratio Lower Upper
164 100
162 105.0 84.1 126.1
160 51.6 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.598 ng
RT: 15.883 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:330 Resp: 1331
Ion Ratio Lower Upper
330 100
332 95.8 76.6 114.8
141 47.5 37.8 56.8

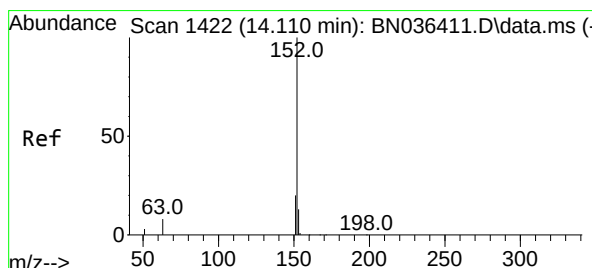
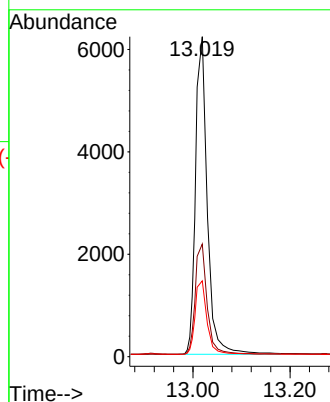
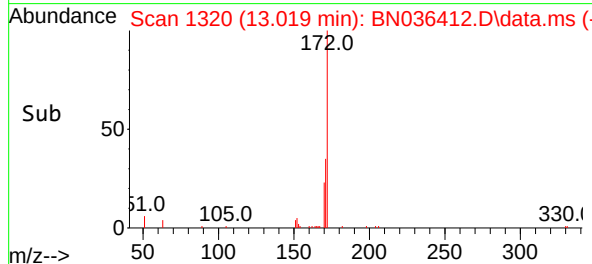
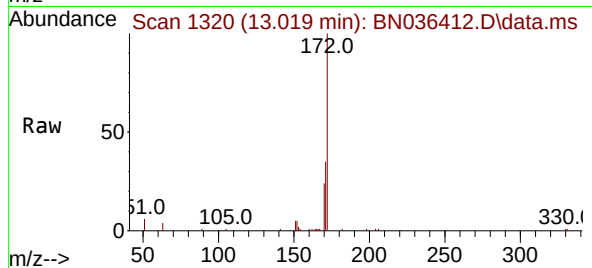




#15
2-Fluorobiphenyl
Concen: 0.699 ng
RT: 13.019 min Scan# 1320
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

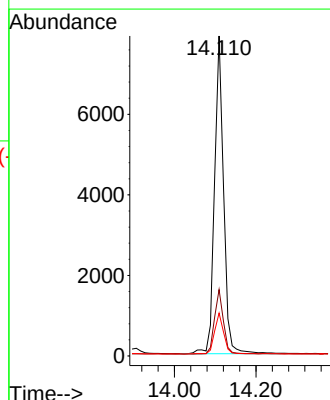
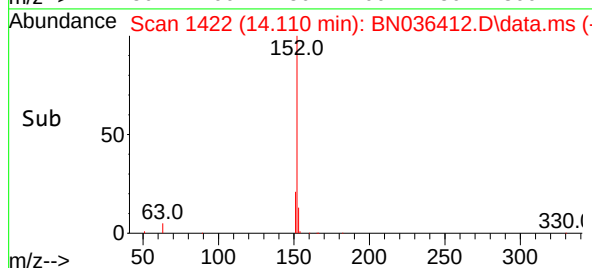
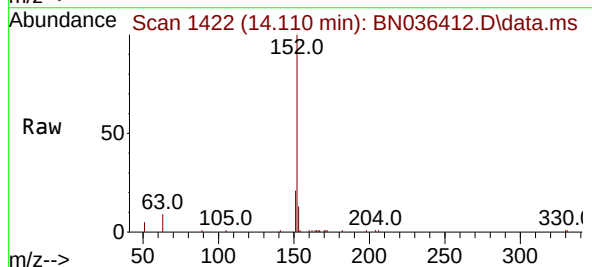
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

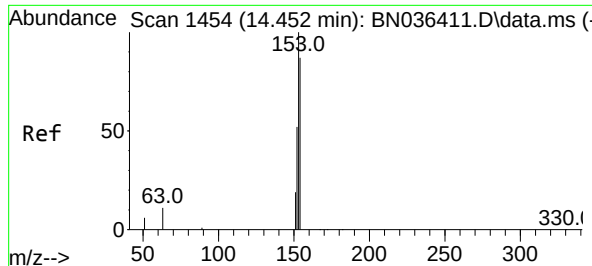
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.6	44.4
170	23.7	19.8	29.6



#16
Acenaphthylene
Concen: 0.727 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	13.0	10.2	15.2

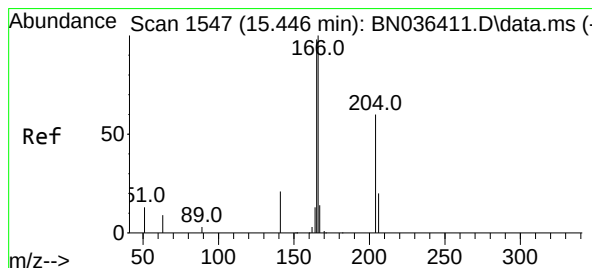
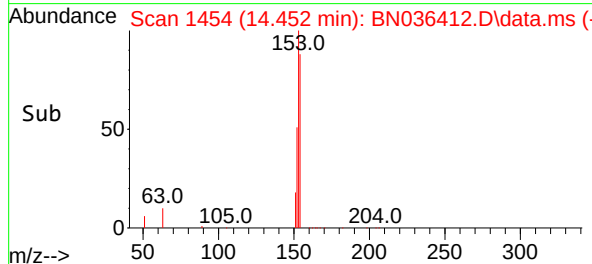
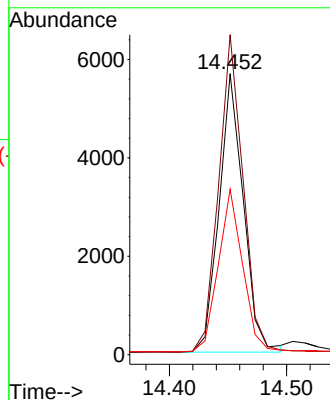
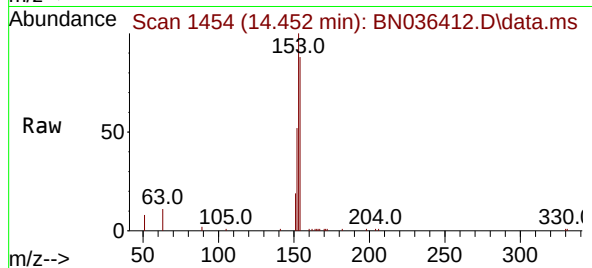




#17
Acenaphthene
Concen: 0.712 ng
RT: 14.452 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

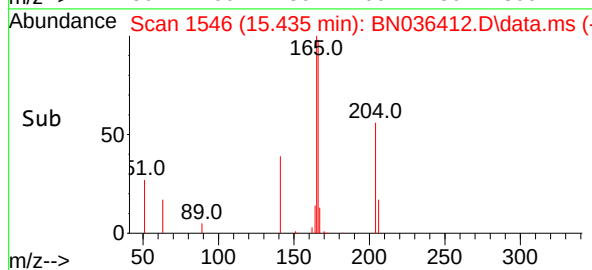
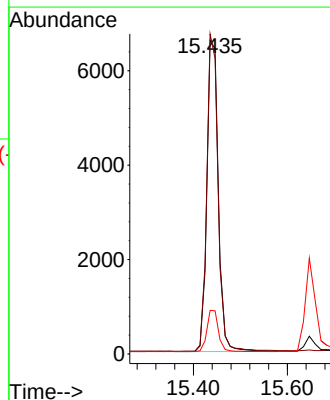
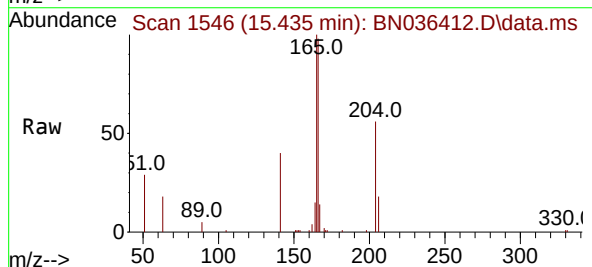
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

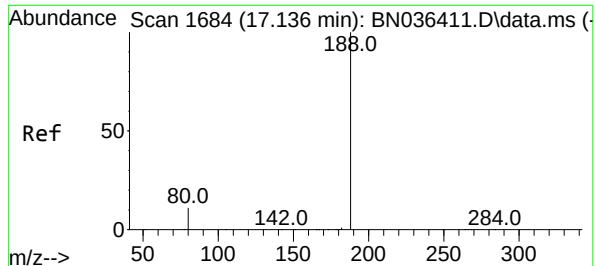
Tgt Ion:	154	Resp:	8143
Ion Ratio	Lower	Upper	
154	100		
153	115.5	93.3	139.9
152	59.0	48.8	73.2



#18
Fluorene
Concen: 0.798 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:	166	Resp:	11752
Ion Ratio	Lower	Upper	
166	100		
165	99.6	79.5	119.3
167	13.3	10.4	15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

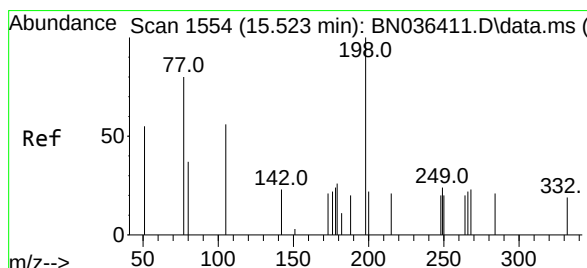
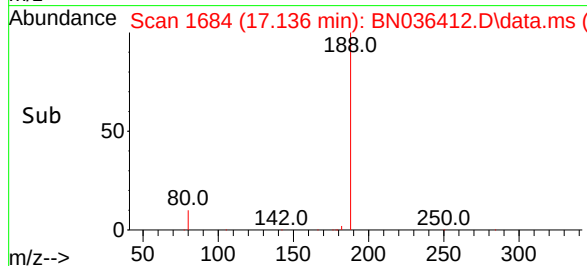
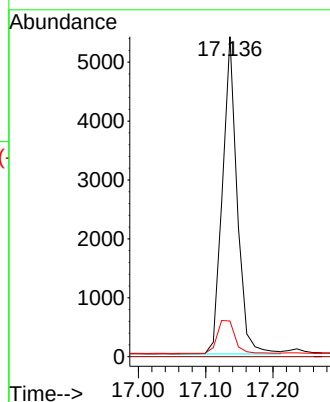
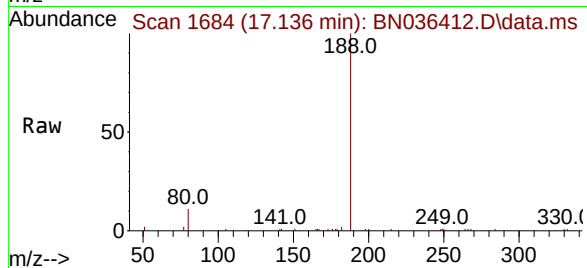
Tgt Ion:188 Resp: 8139

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.1 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.658 ng

RT: 15.523 min Scan# 1554

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

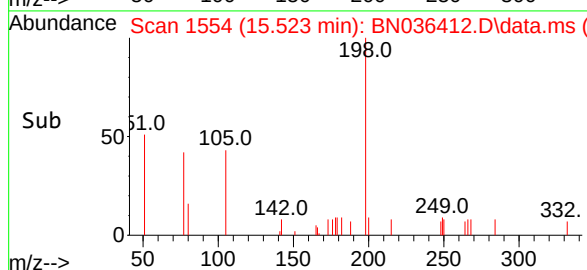
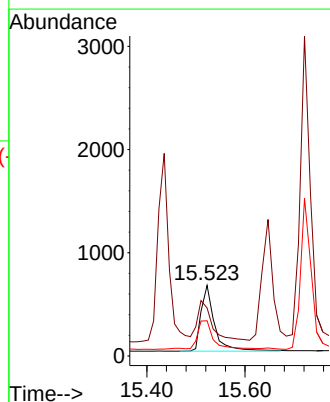
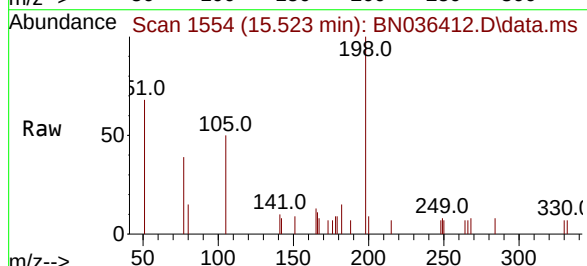
Tgt Ion:198 Resp: 1199

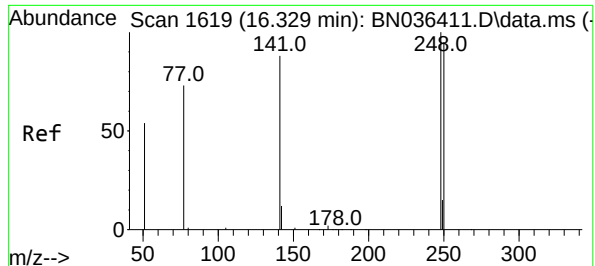
Ion Ratio Lower Upper

198 100

51 68.0 86.6 129.8#

105 49.9 57.5 86.3#

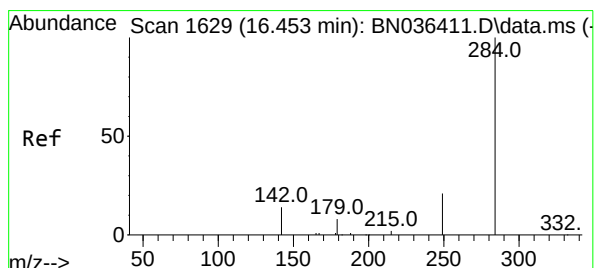
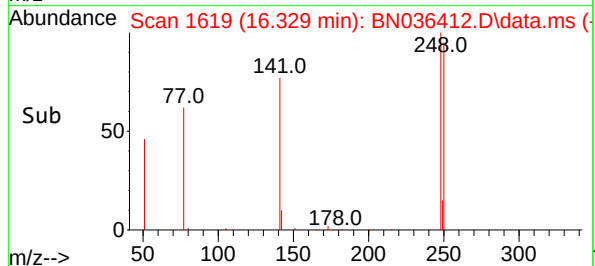
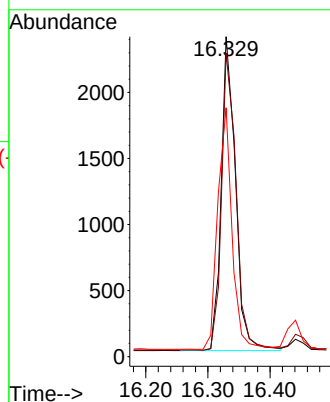
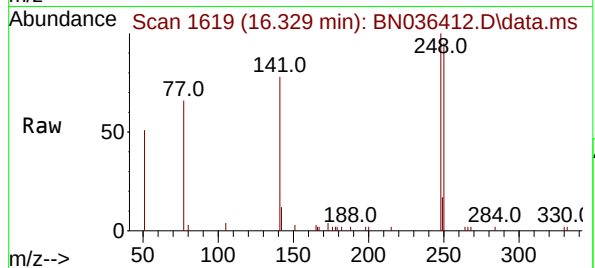




#21
4-Bromophenyl-phenylether
Concen: 0.677 ng
RT: 16.329 min Scan# 1619
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

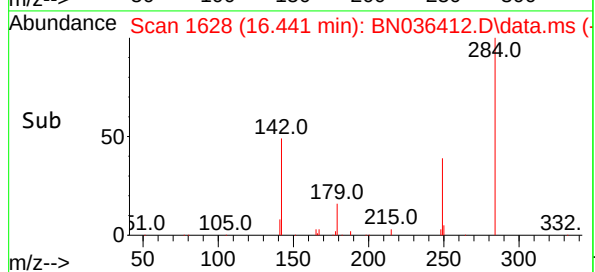
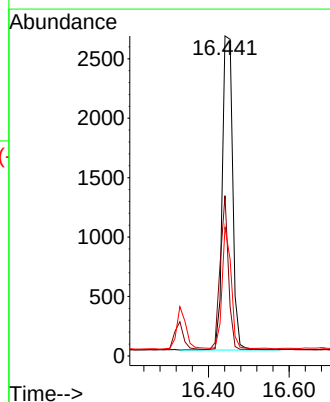
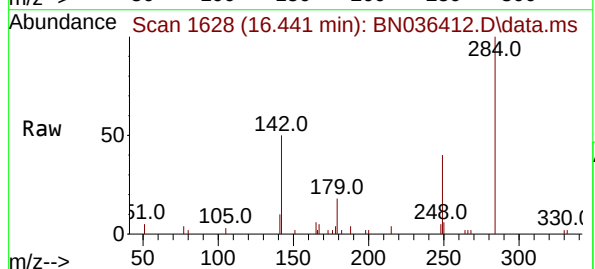
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

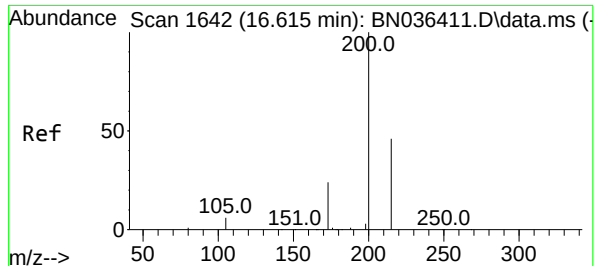
Tgt Ion:248 Resp: 3776
Ion Ratio Lower Upper
248 100
250 94.9 76.1 114.1
141 77.8 71.7 107.5



#22
Hexachlorobenzene
Concen: 0.642 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.012 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:284 Resp: 4670
Ion Ratio Lower Upper
284 100
142 39.5 33.4 50.0
249 33.7 28.6 43.0





#23

Atrazine

Concen: 0.737 ng

RT: 16.602 min Scan# 1641

Delta R.T. -0.012 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

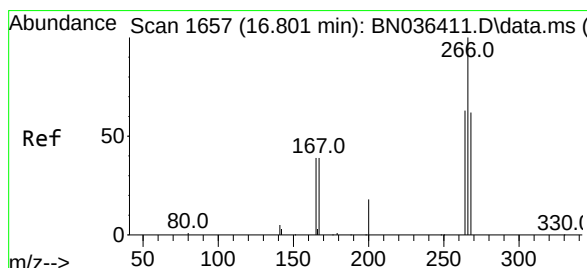
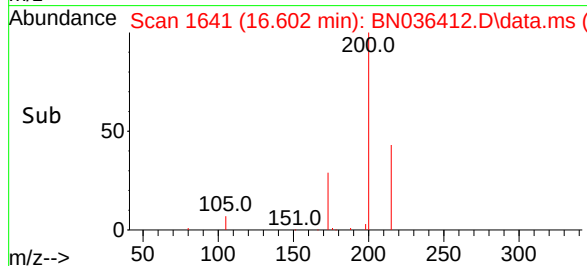
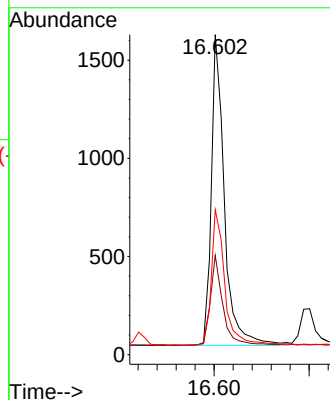
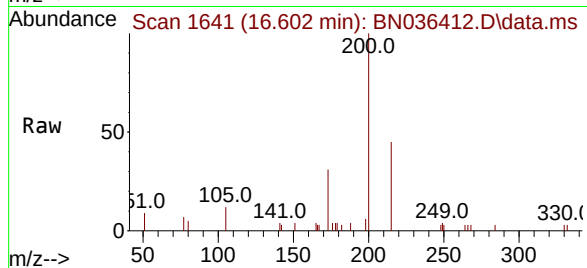
Tgt Ion:200 Resp: 3020

Ion Ratio Lower Upper

200 100

173 31.0 23.2 34.8

215 45.3 40.0 60.0



#24

Pentachlorophenol

Concen: 0.625 ng

RT: 16.801 min Scan# 1657

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

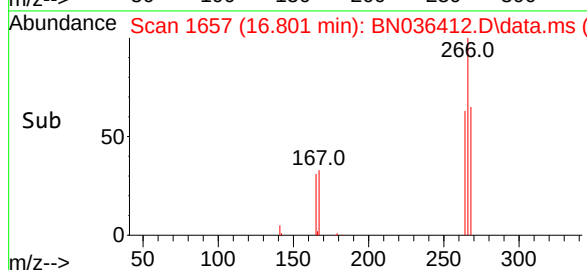
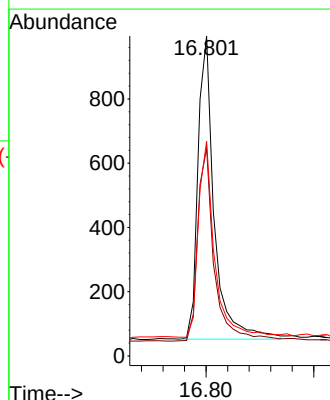
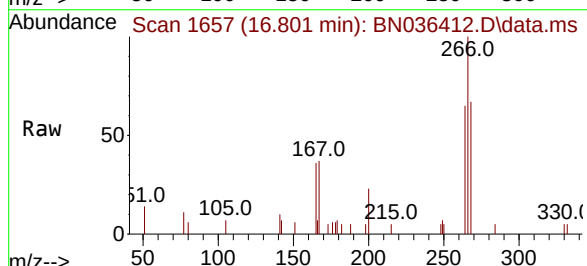
Tgt Ion:266 Resp: 1989

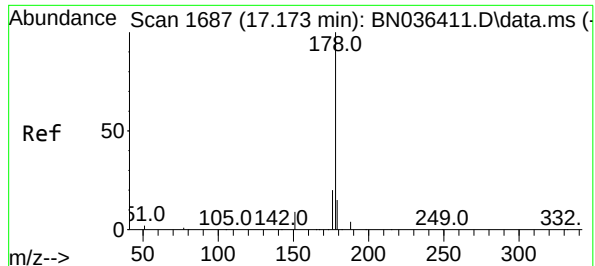
Ion Ratio Lower Upper

266 100

264 64.5 50.6 76.0

268 64.4 51.9 77.9

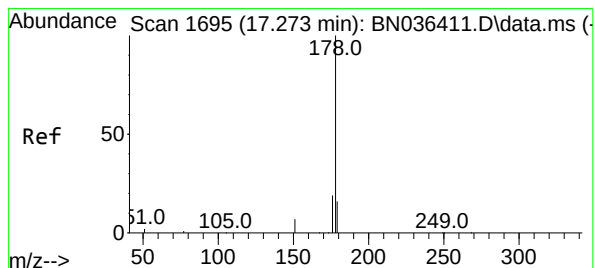
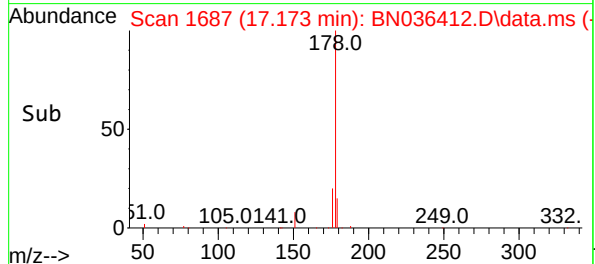
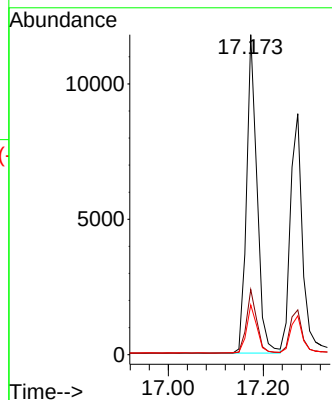
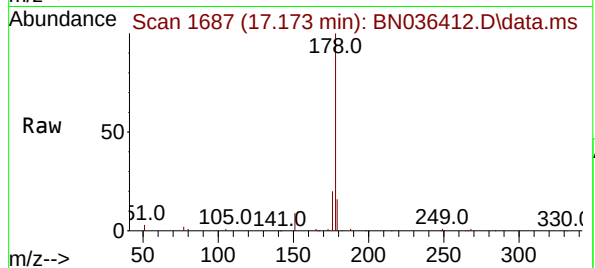




#25
Phenanthrene
Concen: 0.758 ng
RT: 17.173 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

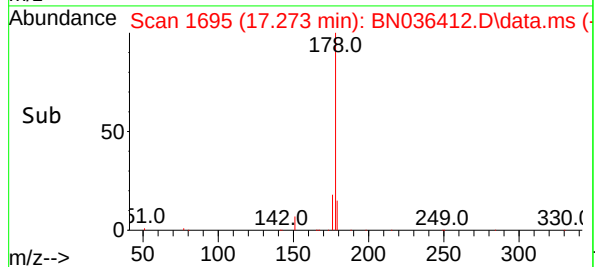
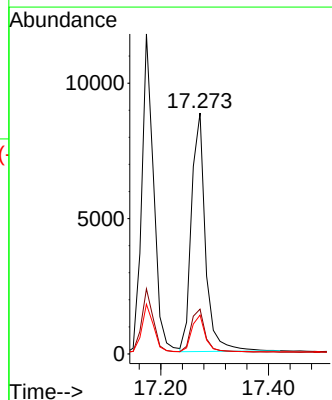
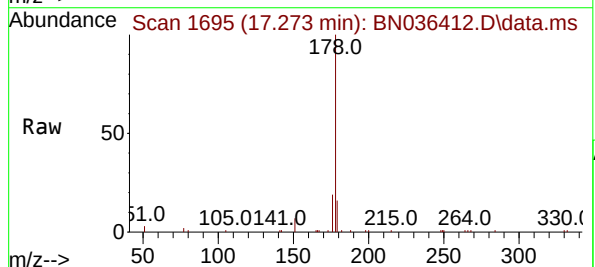
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

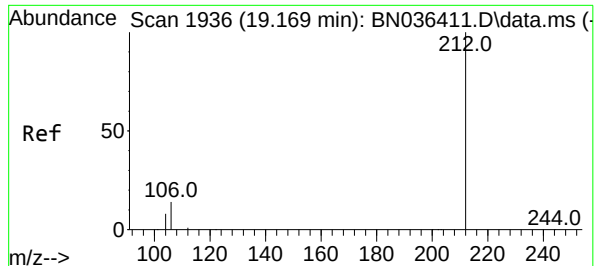
Tgt Ion:178 Resp: 18094
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.1 12.4 18.6



#26
Anthracene
Concen: 0.735 ng
RT: 17.273 min Scan# 1695
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:178 Resp: 15928
Ion Ratio Lower Upper
178 100
176 18.3 14.9 22.3
179 15.4 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.823 ng

RT: 19.169 min Scan# 1936

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

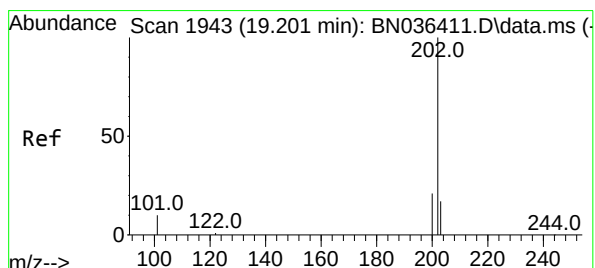
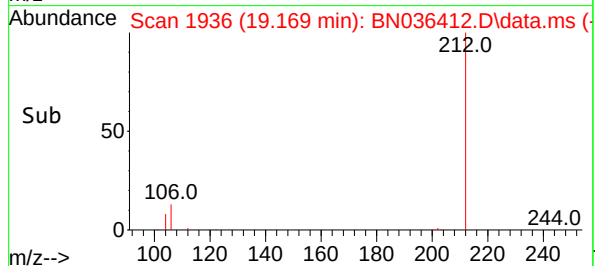
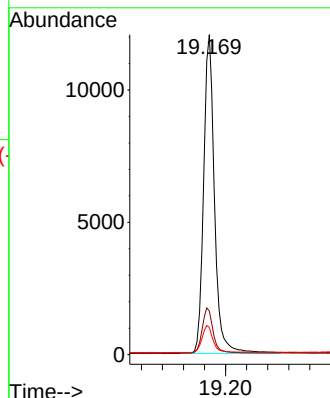
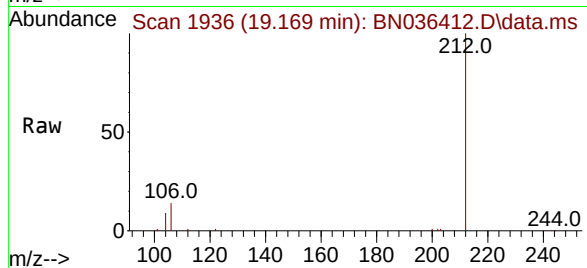
Tgt Ion:212 Resp: 17242

Ion Ratio Lower Upper

212 100

106 14.2 11.5 17.3

104 8.4 7.1 10.7



#28

Fluoranthene

Concen: 0.781 ng

RT: 19.197 min Scan# 1942

Delta R.T. -0.005 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

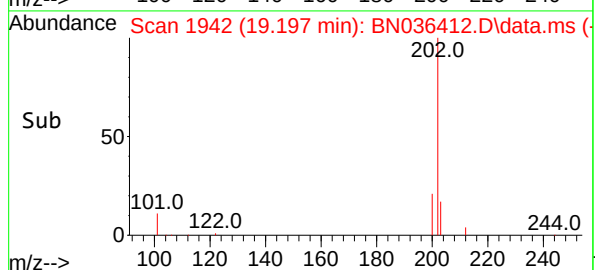
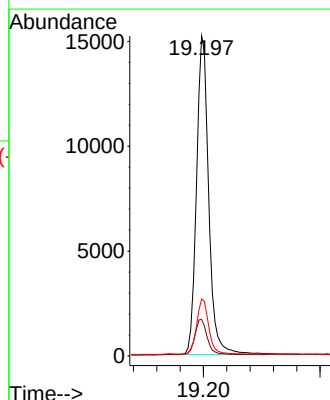
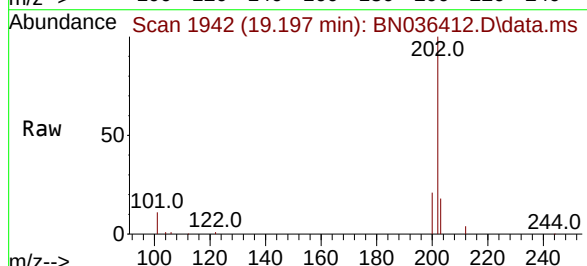
Tgt Ion:202 Resp: 22075

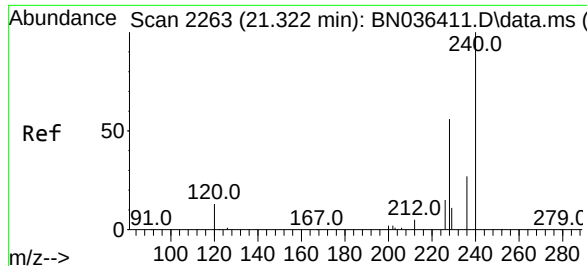
Ion Ratio Lower Upper

202 100

101 11.4 9.2 13.8

203 17.0 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

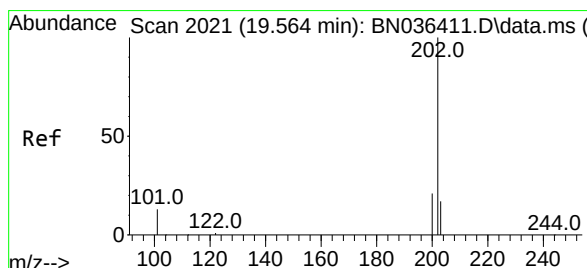
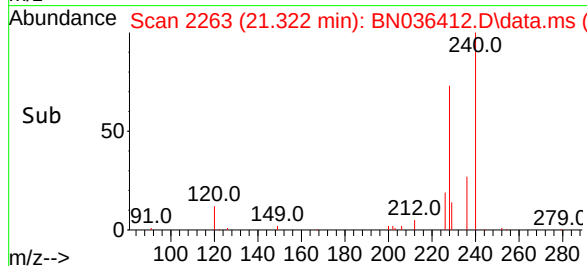
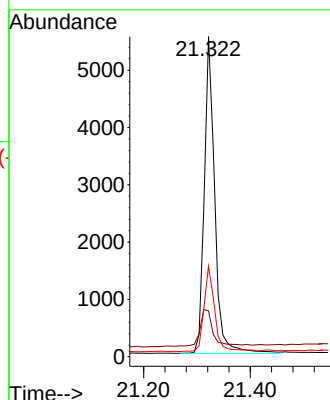
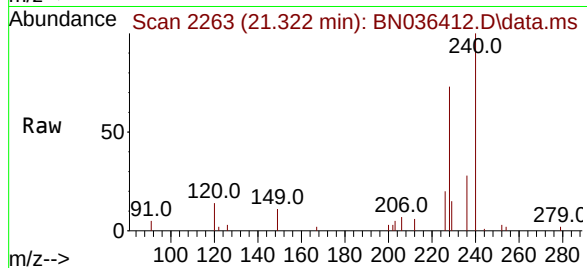
Tgt Ion:240 Resp: 7521

Ion Ratio Lower Upper

240 100

120 14.3 13.3 19.9

236 28.3 23.0 34.6



#30

Pyrene

Concen: 0.746 ng

RT: 19.564 min Scan# 2021

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

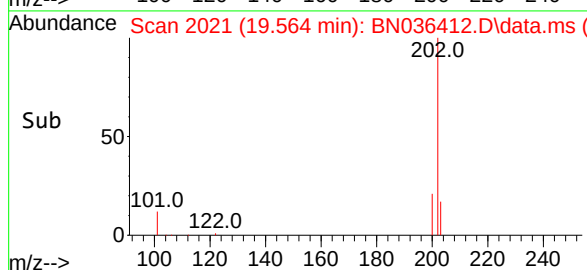
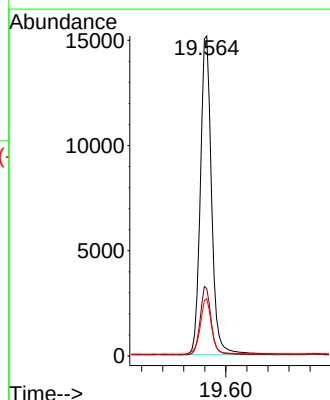
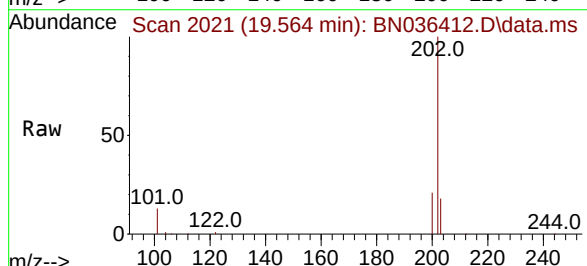
Tgt Ion:202 Resp: 22410

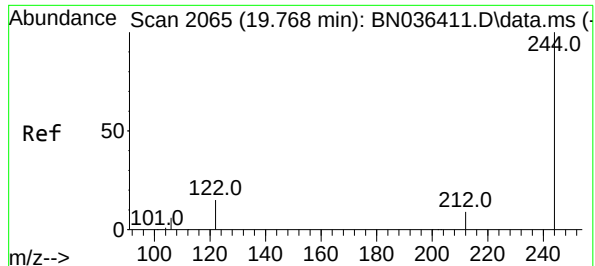
Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

203 17.9 13.9 20.9

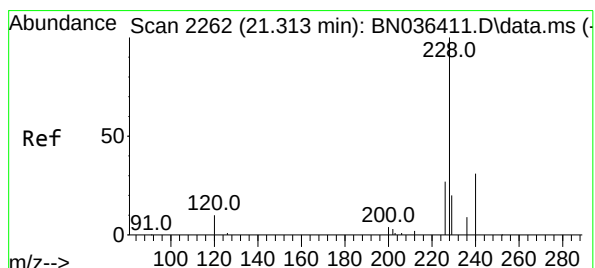
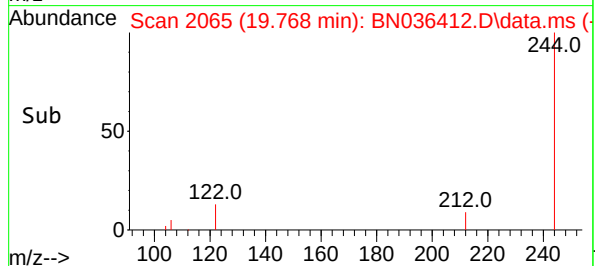
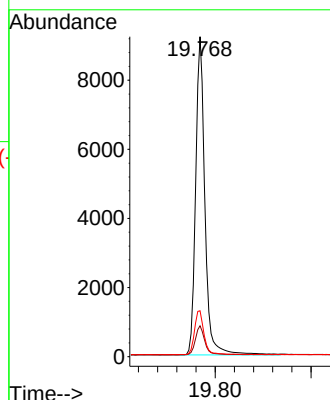
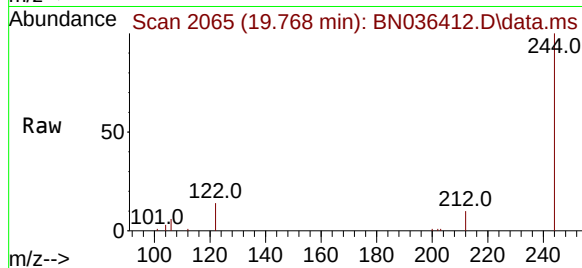




#31
Terphenyl-d14
Concen: 0.800 ng
RT: 19.768 min Scan# 2065
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

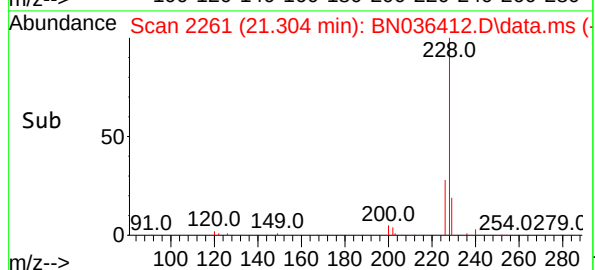
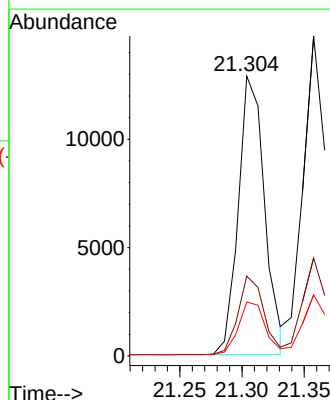
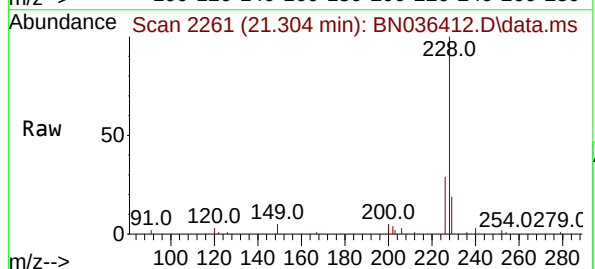
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

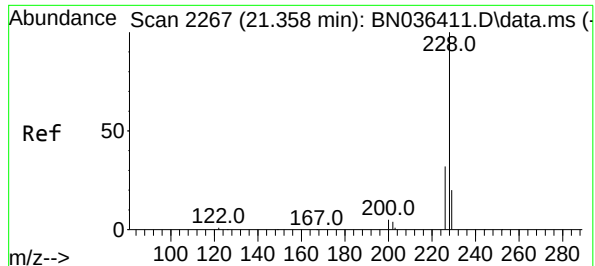
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	14.3	12.8	19.2



#32
Benzo(a)anthracene
Concen: 0.707 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.009 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.2	33.2
229	19.3	16.5	24.7





#33

Chrysene

Concen: 0.776 ng

RT: 21.358 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

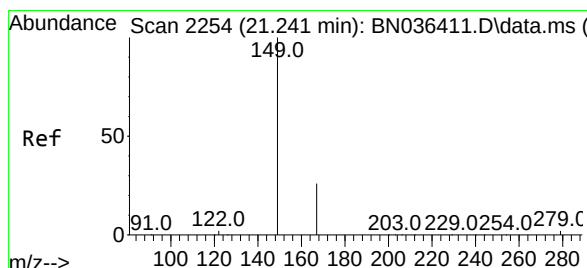
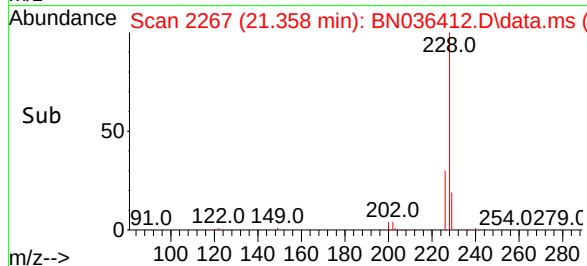
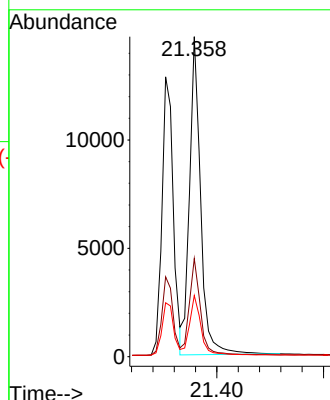
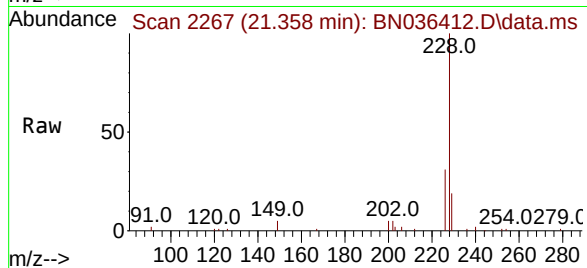
Tgt Ion:228 Resp: 21269

Ion Ratio Lower Upper

228 100

226 30.6 25.5 38.3

229 19.1 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.752 ng

RT: 21.241 min Scan# 2254

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

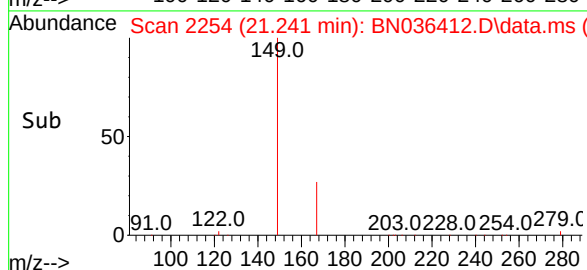
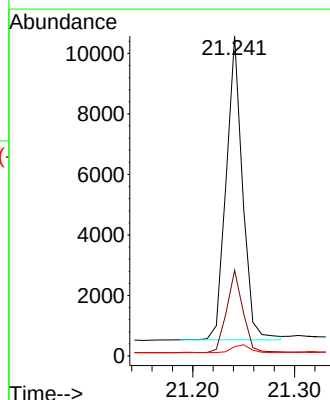
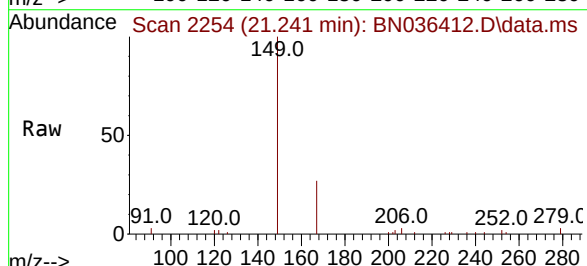
Tgt Ion:149 Resp: 11207

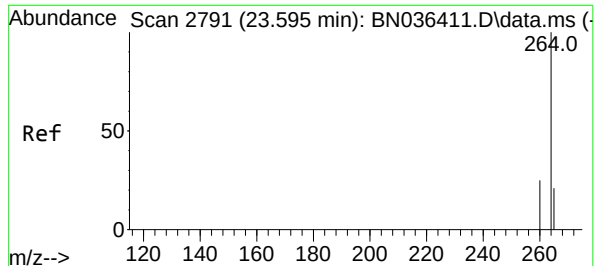
Ion Ratio Lower Upper

149 100

167 27.0 21.2 31.8

279 2.9 2.7 4.1

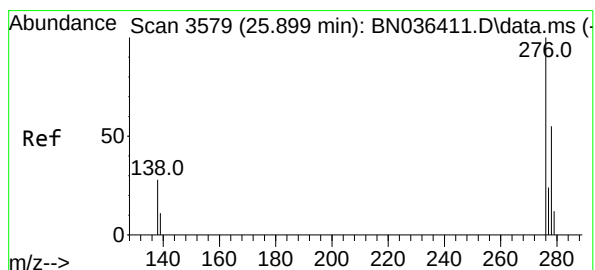
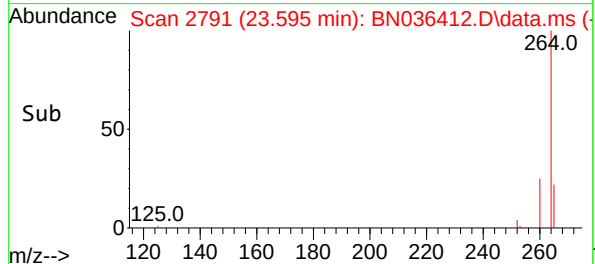
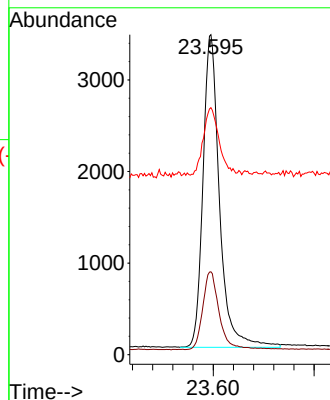
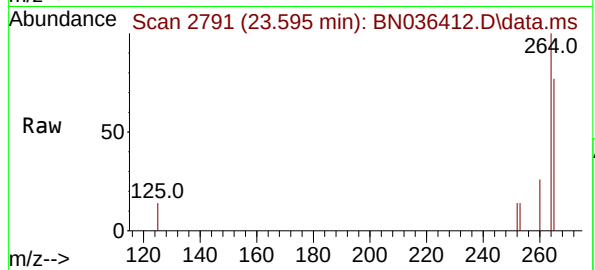




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.595 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

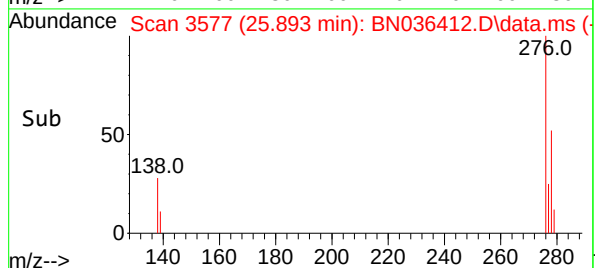
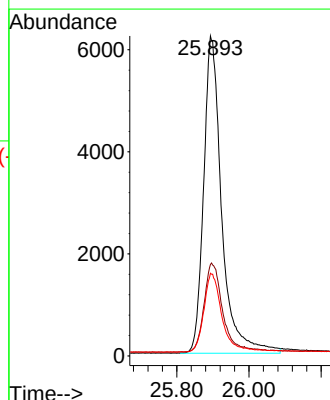
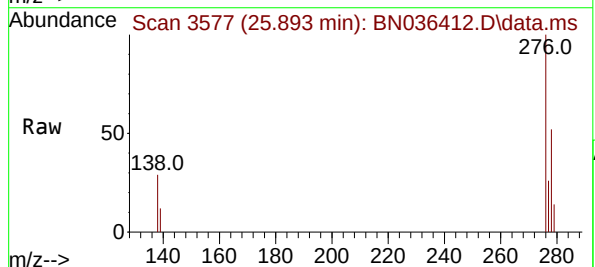
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

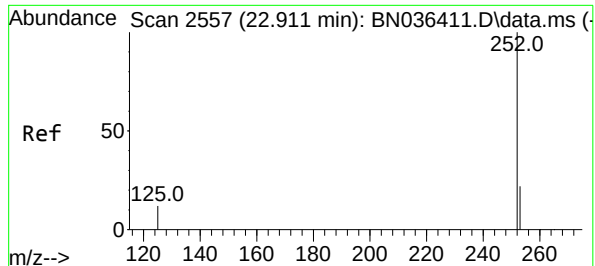
Tgt Ion:264 Resp: 7758
Ion Ratio Lower Upper
264 100
260 25.9 20.9 31.3
265 77.2 60.7 91.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.708 ng
RT: 25.893 min Scan# 3577
Delta R.T. -0.006 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:276 Resp: 21570
Ion Ratio Lower Upper
276 100
138 28.9 22.2 33.2
277 23.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.727 ng

RT: 22.908 min Scan# 2556

Delta R.T. -0.003 min

Lab File: BN036412.D

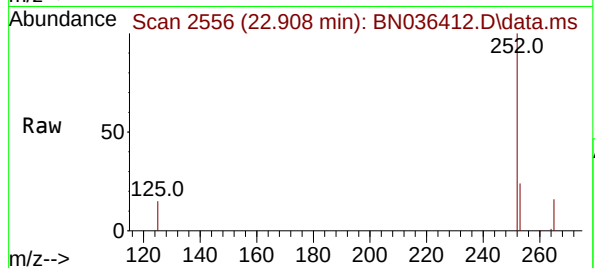
Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



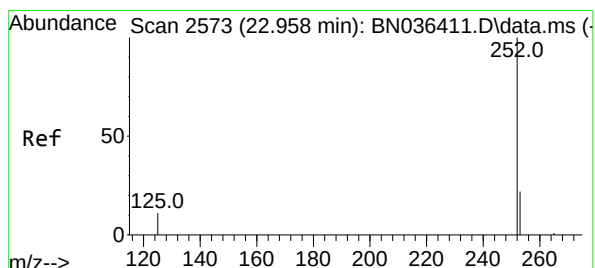
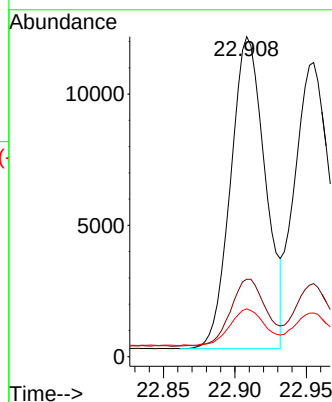
Tgt Ion:252 Resp: 20019

Ion Ratio Lower Upper

252 100

253 24.2 21.9 32.9

125 15.0 15.0 22.6#



#38

Benzo(k)fluoranthene

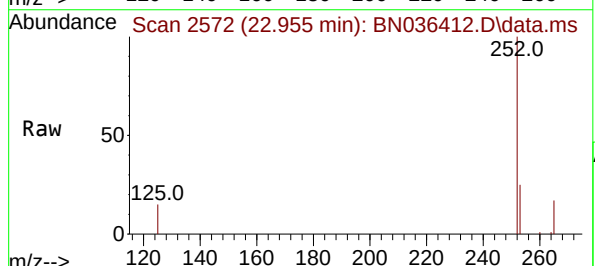
Concen: 0.733 ng

RT: 22.955 min Scan# 2572

Delta R.T. -0.003 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12



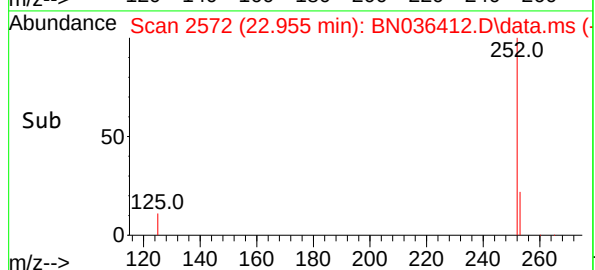
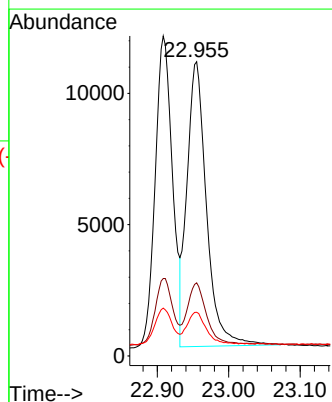
Tgt Ion:252 Resp: 20570

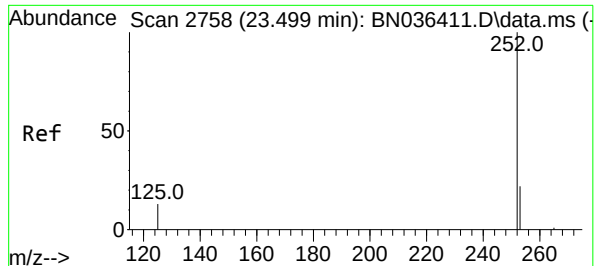
Ion Ratio Lower Upper

252 100

253 24.9 22.2 33.4

125 14.8 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 0.731 ng

RT: 23.493 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036412.D

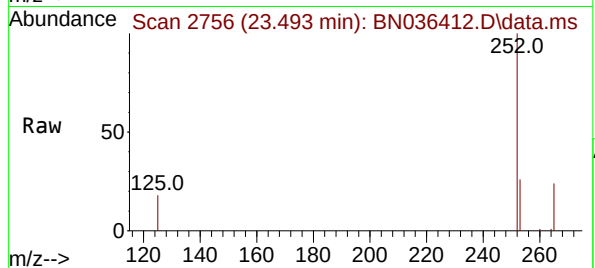
Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



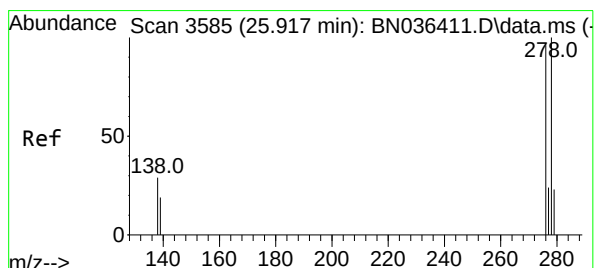
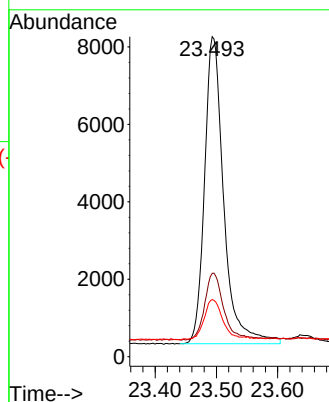
Tgt Ion:252 Resp: 17289

Ion Ratio Lower Upper

252 100

253 26.0 24.4 36.6

125 17.9 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.697 ng

RT: 25.911 min Scan# 3583

Delta R.T. -0.006 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

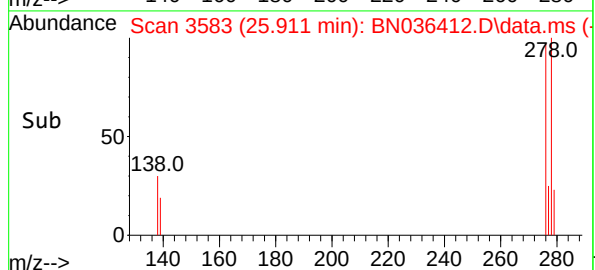
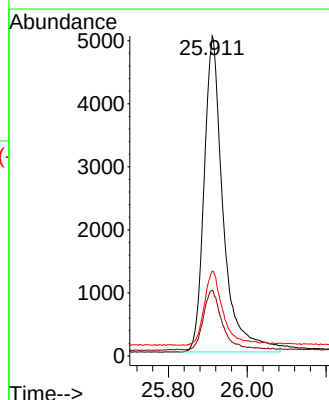
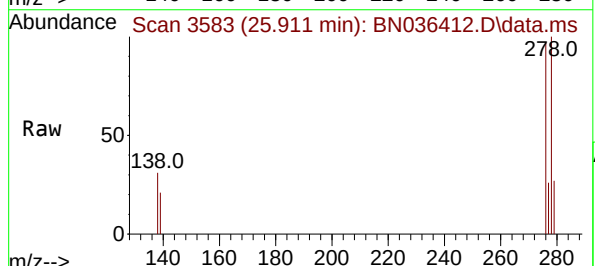
Tgt Ion:278 Resp: 16872

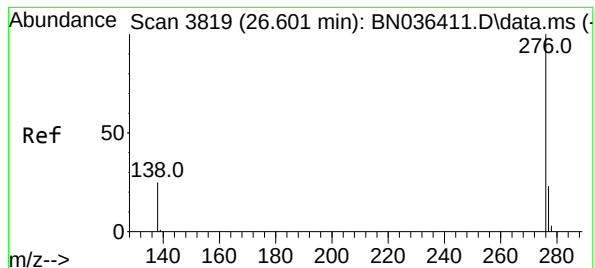
Ion Ratio Lower Upper

278 100

139 20.6 18.5 27.7

279 26.5 24.8 37.2





#41

Benzo(g,h,i)perylene

Concen: 0.718 ng

RT: 26.598 min Scan# 3818

Delta R.T. -0.003 min

Lab File: BN036412.D

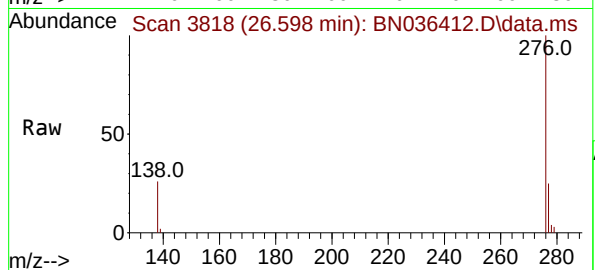
Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



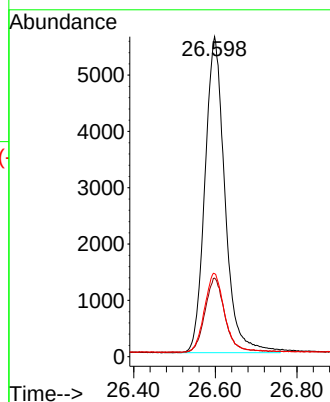
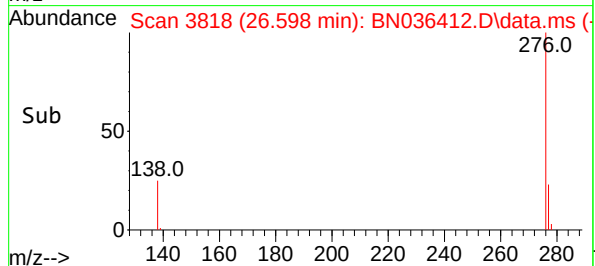
Tgt Ion:276 Resp: 19078

Ion Ratio Lower Upper

276 100

277 24.6 20.7 31.1

138 26.0 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036413.D
 Acq On : 10 Feb 2025 14:48
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Feb 11 00:36:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

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

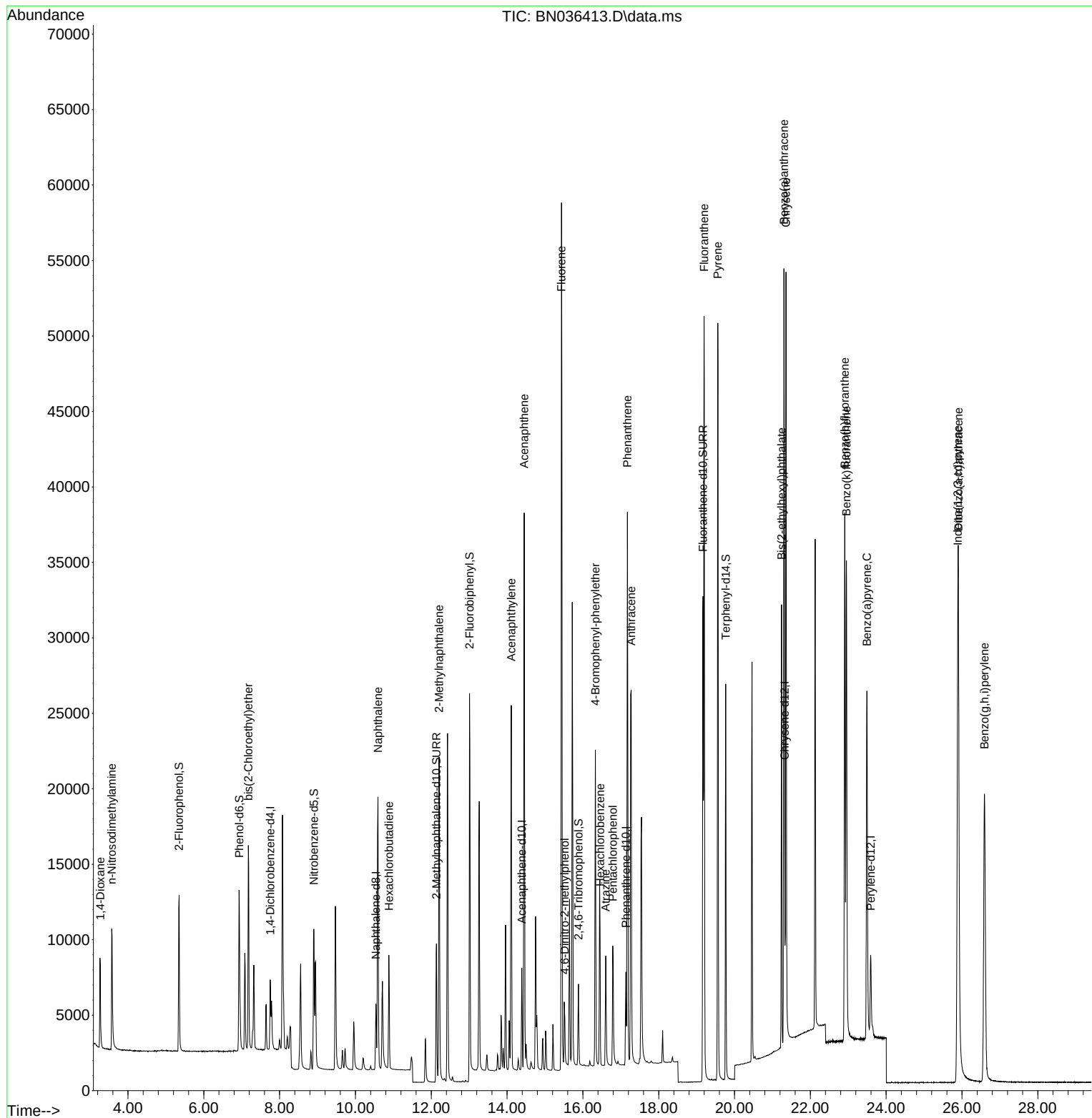
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2193	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	5625	0.400	ng	0.00
13) Acenaphthene-d10	14.388	164	3645	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	8137	0.400	ng	0.00
29) Chrysene-d12	21.322	240	7773	0.400	ng	# 0.00
35) Perylene-d12	23.592	264	7967	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	8016	1.436	ng	0.00
5) Phenol-d6	6.937	99	9644	1.481	ng	0.00
8) Nitrobenzene-d5	8.907	82	8250	1.574	ng	0.00
11) 2-Methylnaphthalene-d10	12.136	152	13436	1.746	ng	0.00
14) 2,4,6-Tribromophenol	15.882	330	2844	1.266	ng	0.00
15) 2-Fluorobiphenyl	13.008	172	22810	1.467	ng	-0.01
27) Fluoranthene-d10	19.169	212	35740	1.707	ng	0.00
31) Terphenyl-d14	19.768	244	25927	1.611	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.268	88	3606	1.487	ng	98
3) n-Nitrosodimethylamine	3.572	42	6208	1.425	ng	99
6) bis(2-Chloroethyl)ether	7.175	93	9821	1.813	ng	98
9) Naphthalene	10.594	128	24185	1.505	ng	97
10) Hexachlorobutadiene	10.882	225	5933	1.178	ng	# 100
12) 2-Methylnaphthalene	12.207	142	16325	1.617	ng	99
16) Acenaphthylene	14.110	152	25289	1.499	ng	100
17) Acenaphthene	14.452	154	17130	1.483	ng	97
18) Fluorene	15.435	166	24341	1.638	ng	100
20) 4,6-Dinitro-2-methylph...	15.522	198	2725	1.497	ng	# 47
21) 4-Bromophenyl-phenylether	16.329	248	7690	1.379	ng	91
22) Hexachlorobenzene	16.453	284	9401	1.292	ng	97
23) Atrazine	16.602	200	6316	1.541	ng	95
24) Pentachlorophenol	16.789	266	4352	1.368	ng	99
25) Phenanthrene	17.173	178	37027	1.552	ng	100
26) Anthracene	17.273	178	33031	1.524	ng	99
28) Fluoranthene	19.197	202	45708	1.617	ng	99
30) Pyrene	19.559	202	46256	1.489	ng	100
32) Benzo(a)anthracene	21.304	228	40416	1.463	ng	99
33) Chrysene	21.357	228	43661	1.542	ng	97
34) Bis(2-ethylhexyl)phtha...	21.241	149	23672	1.538	ng	99
36) Indeno(1,2,3-cd)pyrene	25.890	276	46083	1.472	ng	98
37) Benzo(b)fluoranthene	22.908	252	42491	1.502	ng	# 89
38) Benzo(k)fluoranthene	22.952	252	42933	1.489	ng	# 89
39) Benzo(a)pyrene	23.493	252	36490	1.503	ng	# 86
40) Dibenzo(a,h)anthracene	25.905	278	36765	1.478	ng	# 90
41) Benzo(g,h,i)perylene	26.592	276	40441	1.482	ng	98

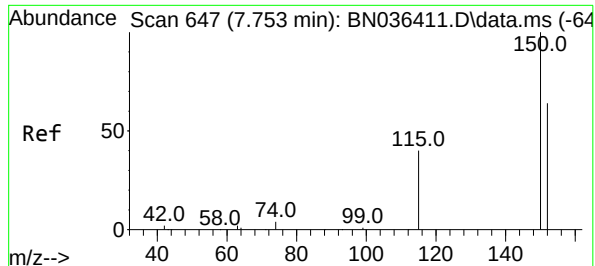
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036413.D
Acq On : 10 Feb 2025 14:48
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Feb 11 00:36:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

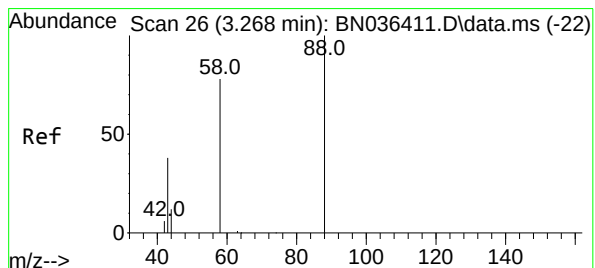
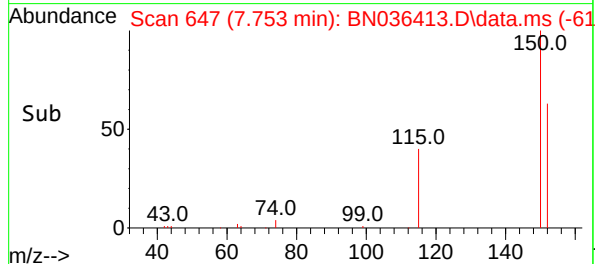
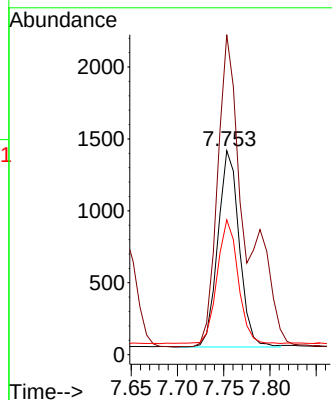
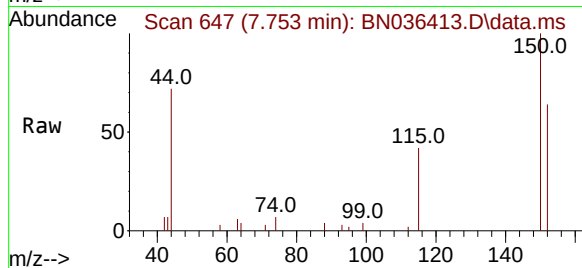




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

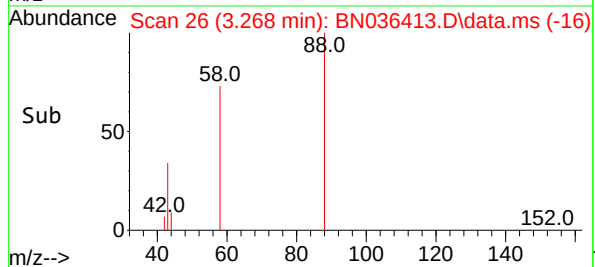
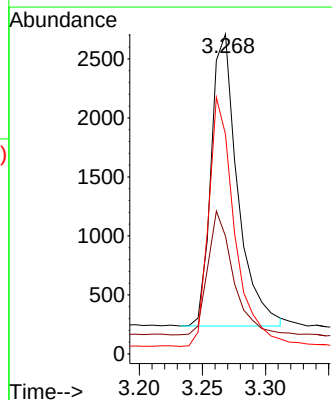
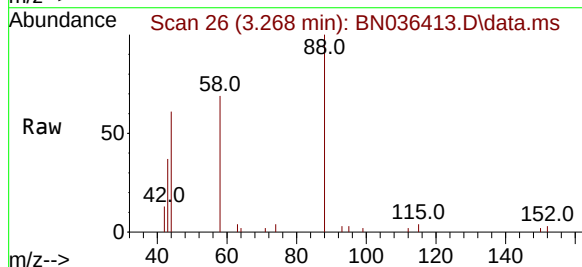
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

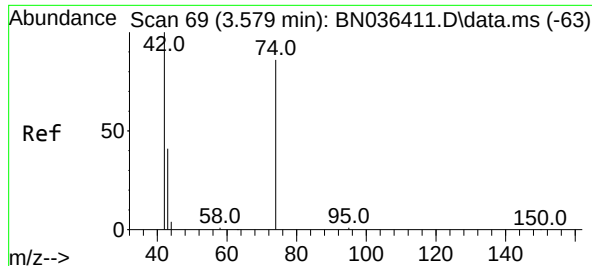
Tgt Ion:152 Resp: 2193
Ion Ratio Lower Upper
152 100
150 156.9 123.7 185.5
115 66.1 52.5 78.7



#2
1,4-Dioxane
Concen: 1.487 ng
RT: 3.268 min Scan# 26
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion: 88 Resp: 3606
Ion Ratio Lower Upper
88 100
43 40.7 33.7 50.5
58 84.0 68.9 103.3

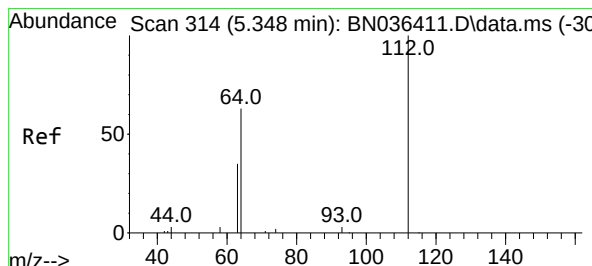
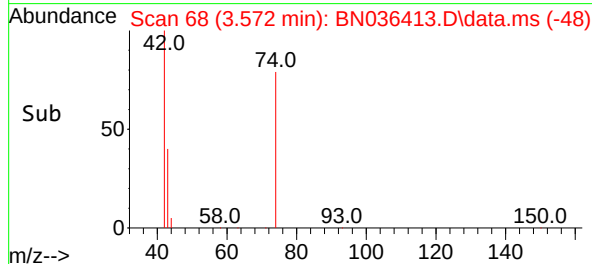
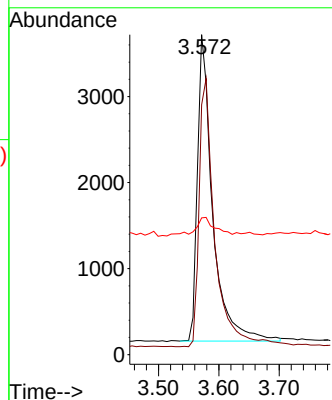
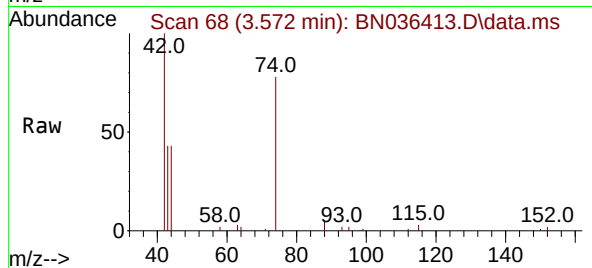




#3
n-Nitrosodimethylamine
Concen: 1.425 ng
RT: 3.572 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

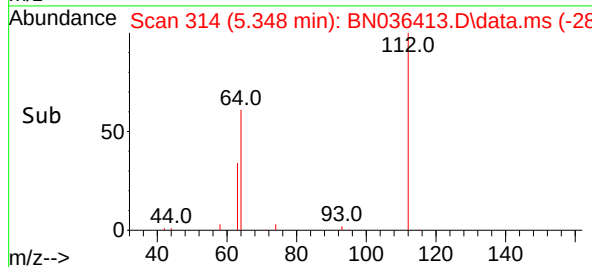
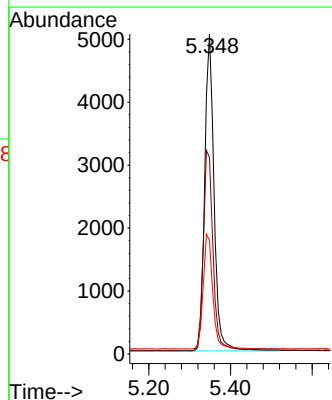
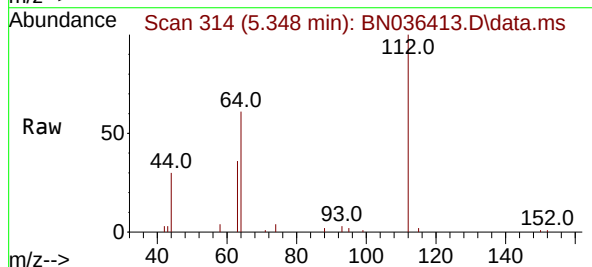
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

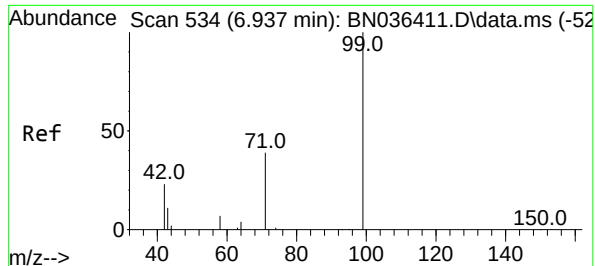
Tgt Ion: 42 Resp: 6208
Ion Ratio Lower Upper
42 100
74 90.8 71.8 107.6
44 7.9 7.8 11.6



#4
2-Fluorophenol
Concen: 1.436 ng
RT: 5.348 min Scan# 314
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion: 112 Resp: 8016
Ion Ratio Lower Upper
112 100
64 65.9 53.4 80.0
63 37.6 30.3 45.5

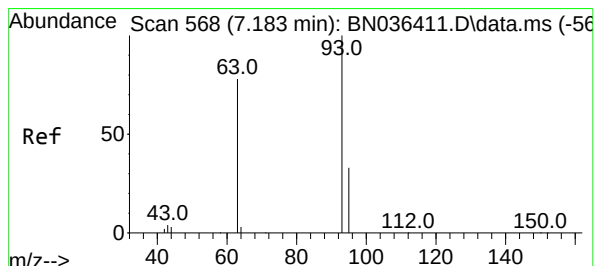
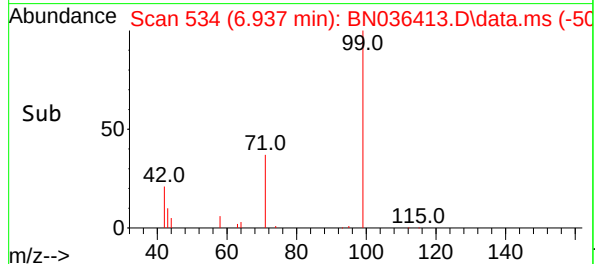
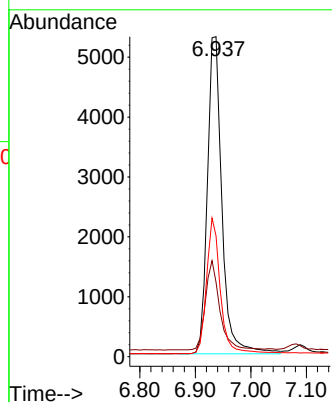
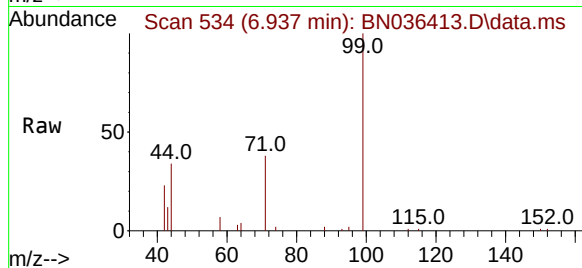




#5
Phenol-d6
Concen: 1.481 ng
RT: 6.937 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

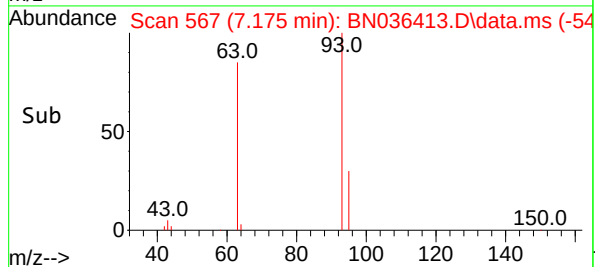
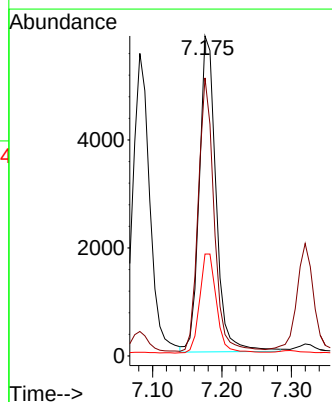
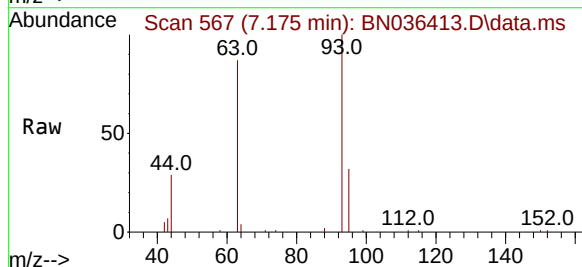
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

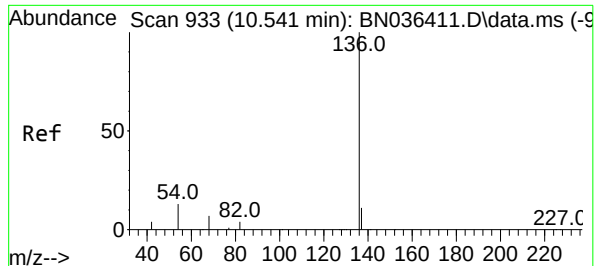
Tgt Ion	Ratio	Lower	Upper
99	100		
42	27.7	21.7	32.5
71	41.1	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 1.813 ng
RT: 7.175 min Scan# 567
Delta R.T. -0.007 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion	Ratio	Lower	Upper
93	100		
63	81.0	66.3	99.5
95	31.5	26.2	39.4





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.541 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:136 Resp: 5625

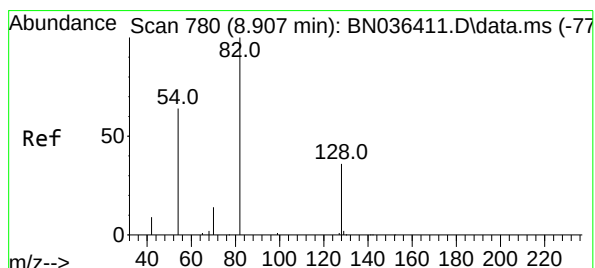
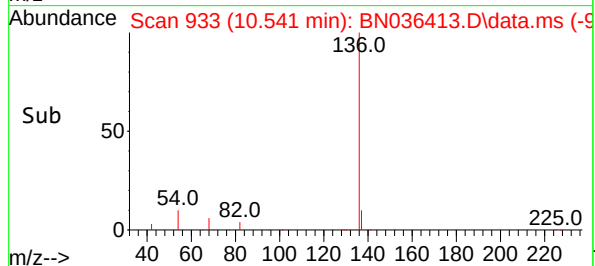
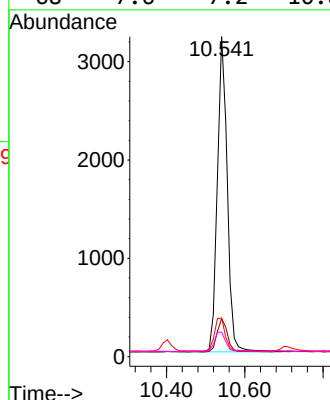
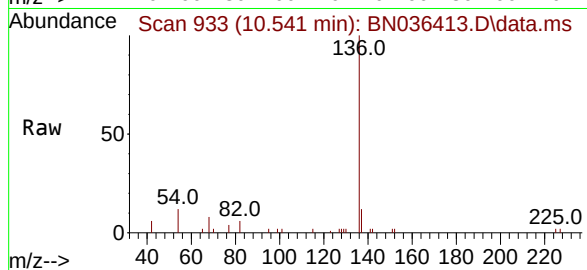
Ion Ratio Lower Upper

136 100

137 11.9 10.1 15.1

54 12.0 11.8 17.6

68 7.6 7.2 10.8



#8

Nitrobenzene-d5

Concen: 1.574 ng

RT: 8.907 min Scan# 780

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

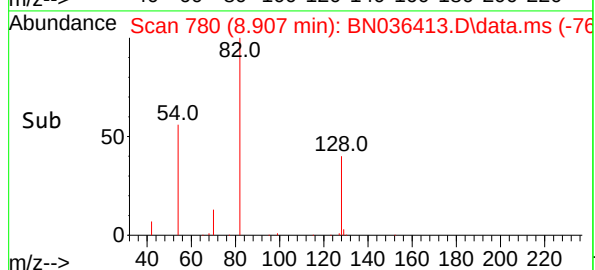
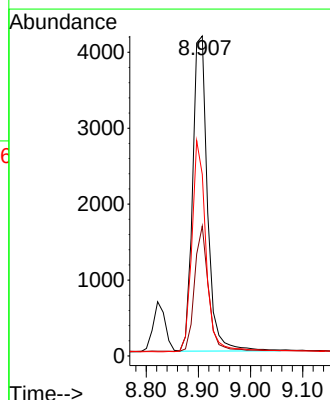
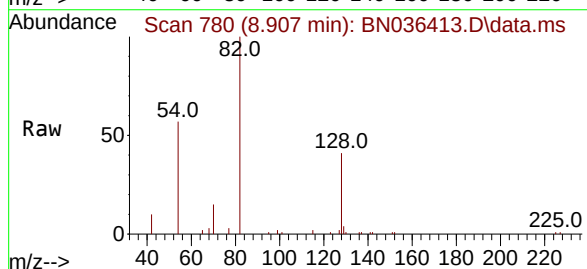
Tgt Ion: 82 Resp: 8250

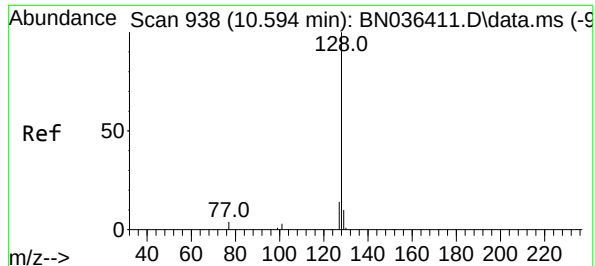
Ion Ratio Lower Upper

82 100

128 40.6 31.9 47.9

54 56.8 53.1 79.7





#9
Naphthalene

Concen: 1.505 ng

RT: 10.594 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

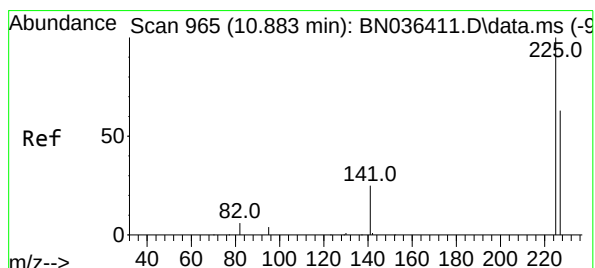
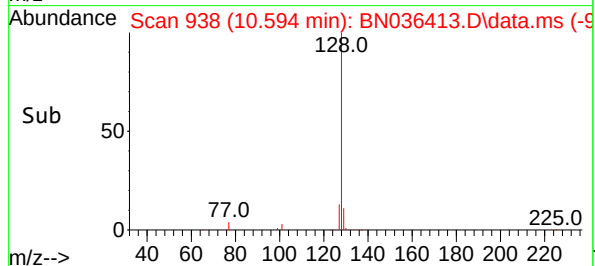
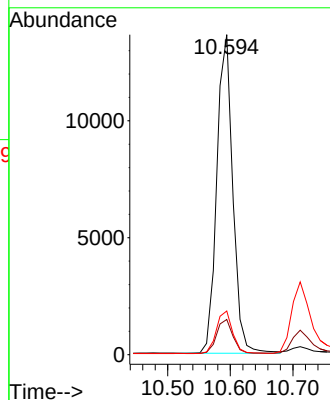
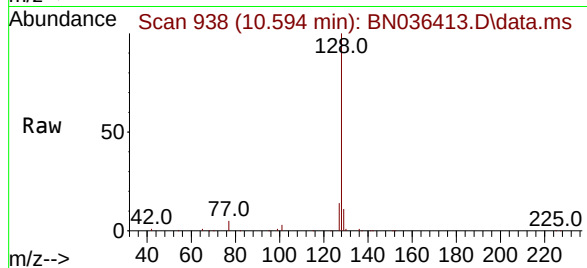
Tgt Ion:128 Resp: 24185

Ion	Ratio	Lower	Upper

128	100		

129	11.0	9.6	14.4

127	13.7	12.0	18.0



#10

Hexachlorobutadiene

Concen: 1.178 ng

RT: 10.882 min Scan# 965

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

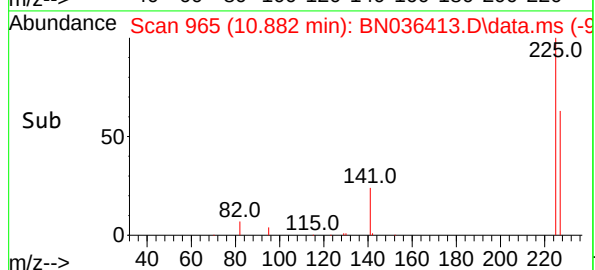
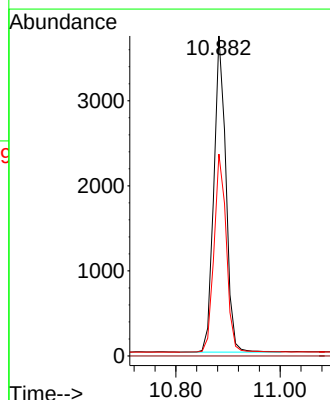
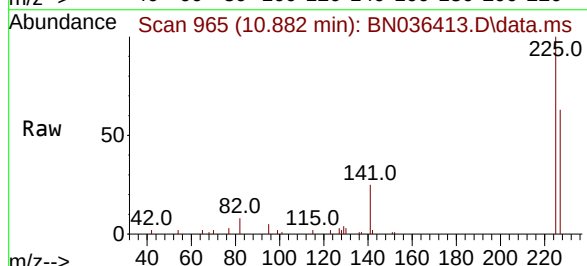
Tgt Ion:225 Resp: 5933

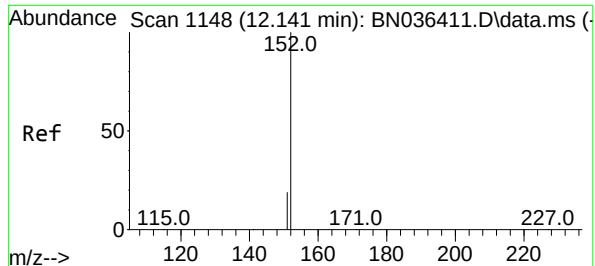
Ion	Ratio	Lower	Upper

225	100		

223	0.0	0.0	0.0

227	63.8	50.9	76.3

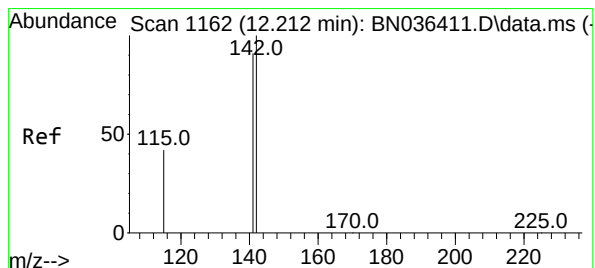
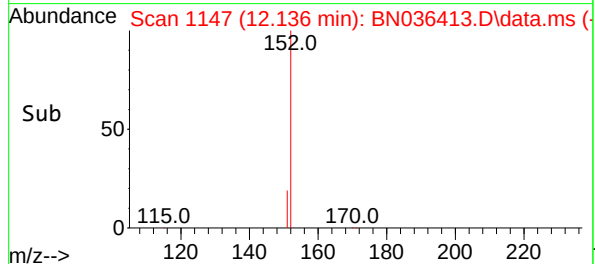
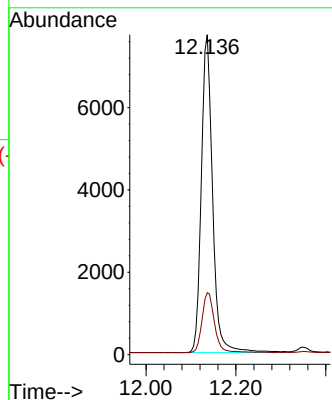
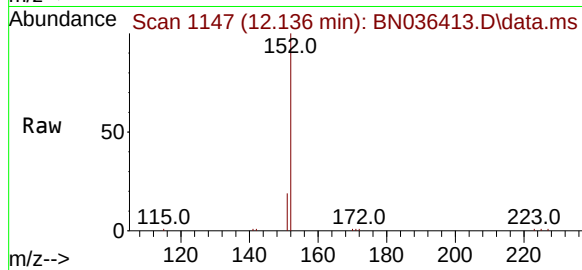




#11
2-Methylnaphthalene-d10
Concen: 1.746 ng
RT: 12.136 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

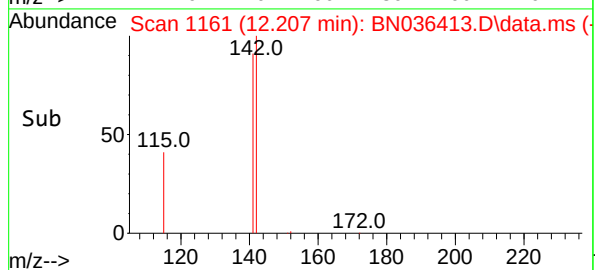
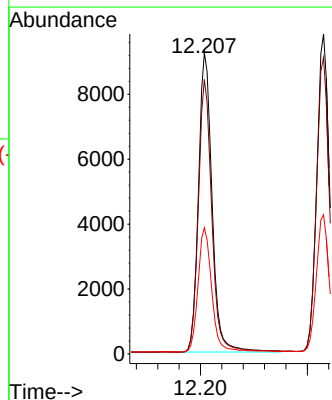
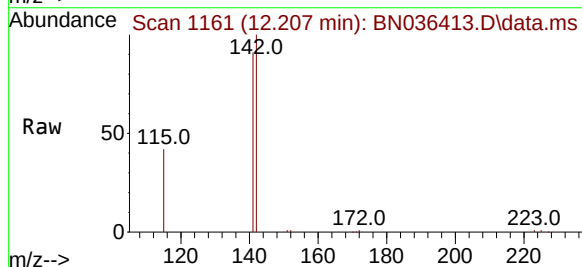
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

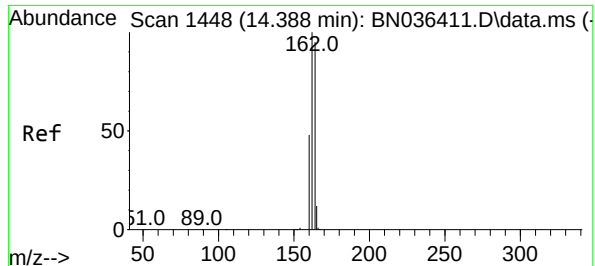
Tgt Ion:152 Resp: 13436
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 1.617 ng
RT: 12.207 min Scan# 1161
Delta R.T. -0.005 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:142 Resp: 16325
Ion Ratio Lower Upper
142 100
141 91.0 72.8 109.2
115 41.9 35.5 53.3

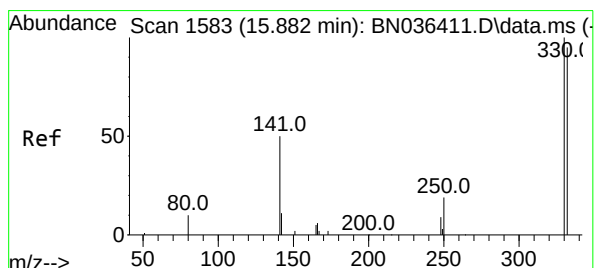
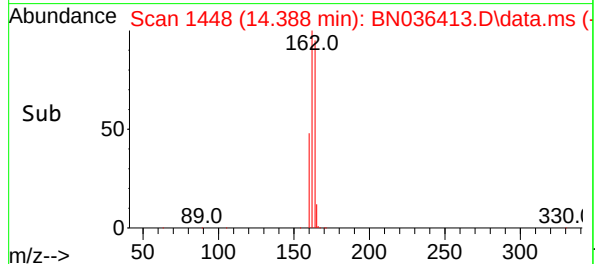
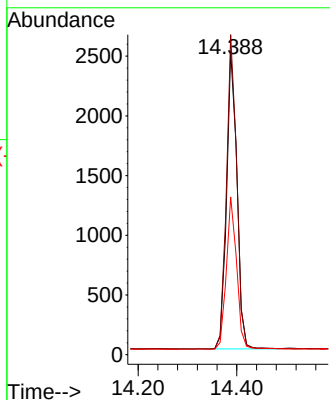
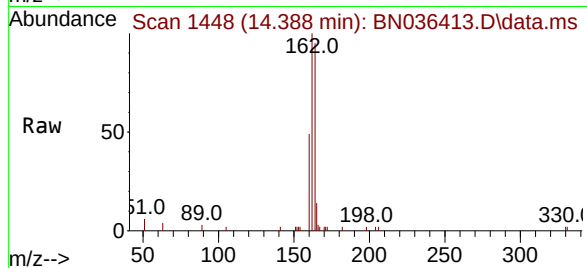




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

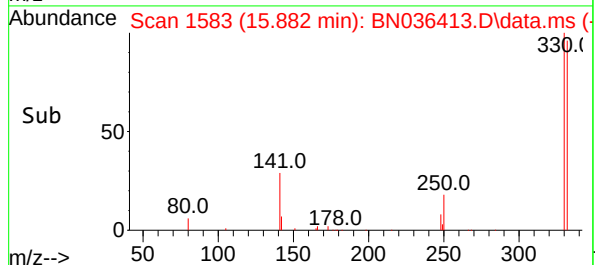
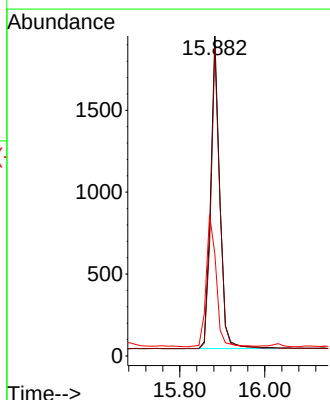
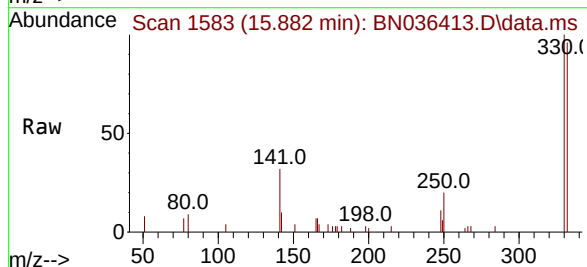
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

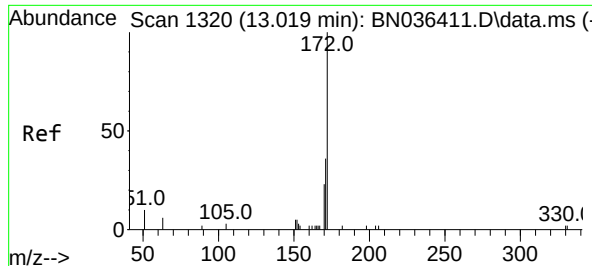
Tgt Ion:164 Resp: 3645
Ion Ratio Lower Upper
164 100
162 105.5 84.1 126.1
160 52.0 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 1.266 ng
RT: 15.882 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:330 Resp: 2844
Ion Ratio Lower Upper
330 100
332 94.6 76.6 114.8
141 46.0 37.8 56.8

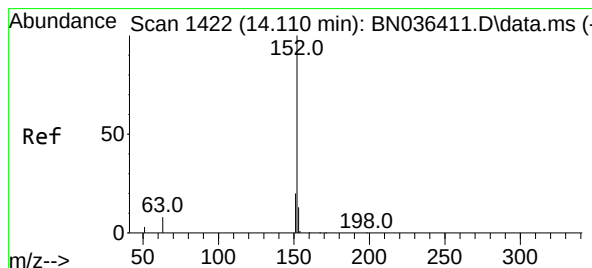
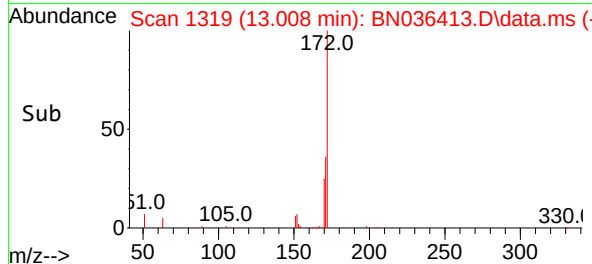
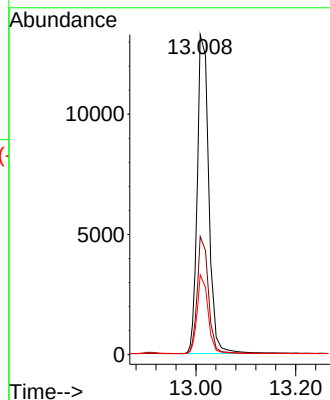
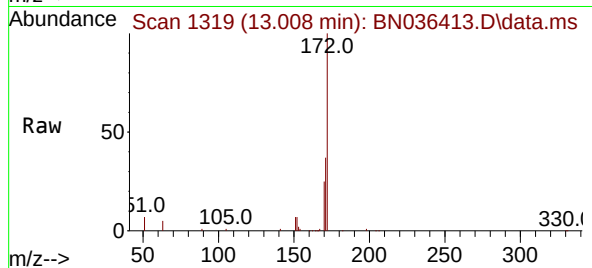




#15
2-Fluorobiphenyl
Concen: 1.467 ng
RT: 13.008 min Scan# 1319
Delta R.T. -0.011 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

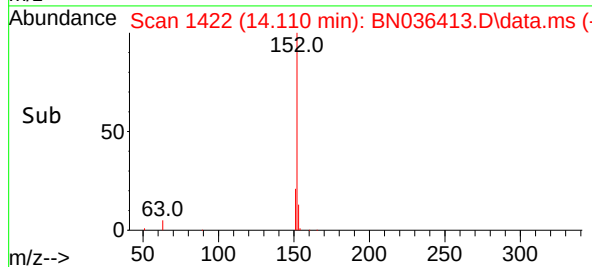
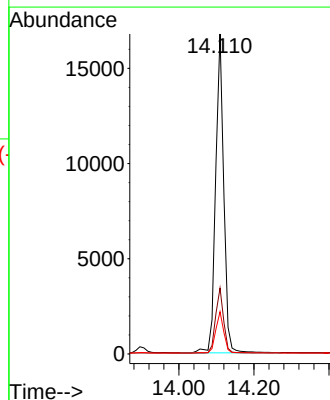
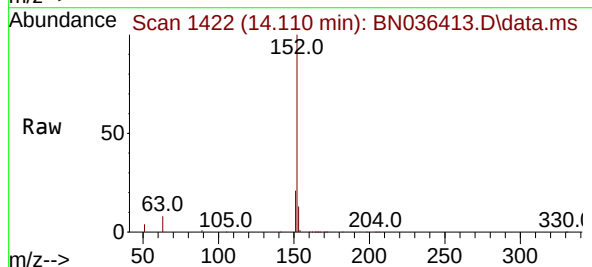
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

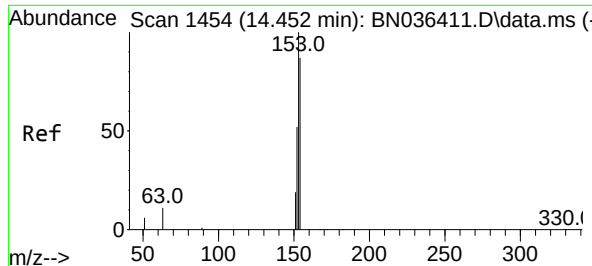
Tgt Ion:172 Resp: 22810
Ion Ratio Lower Upper
172 100
171 36.9 29.6 44.4
170 25.0 19.8 29.6



#16
Acenaphthylene
Concen: 1.499 ng
RT: 14.110 min Scan# 1422
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:152 Resp: 25289
Ion Ratio Lower Upper
152 100
151 20.0 15.8 23.8
153 12.9 10.2 15.2

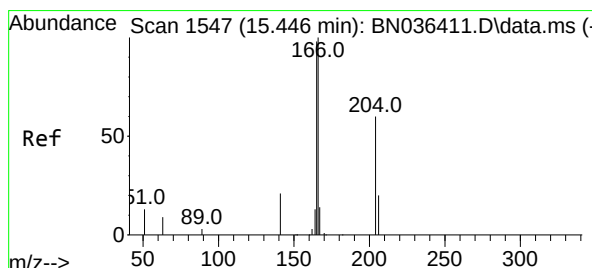
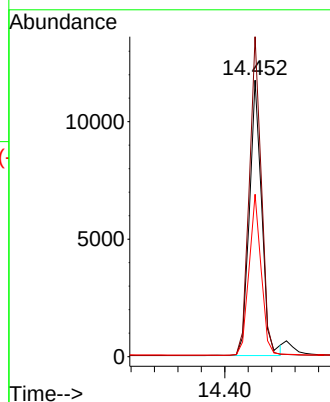
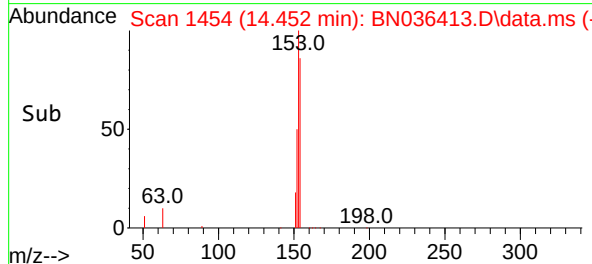
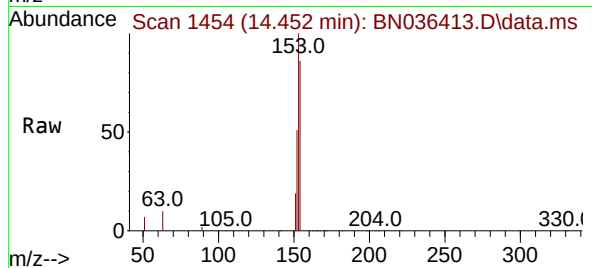




#17
Acenaphthene
Concen: 1.483 ng
RT: 14.452 min Scan# 1454
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

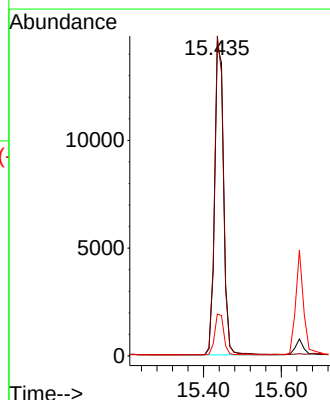
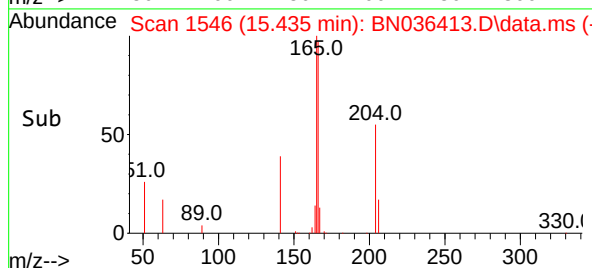
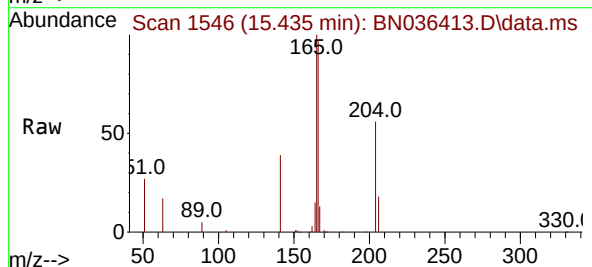
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

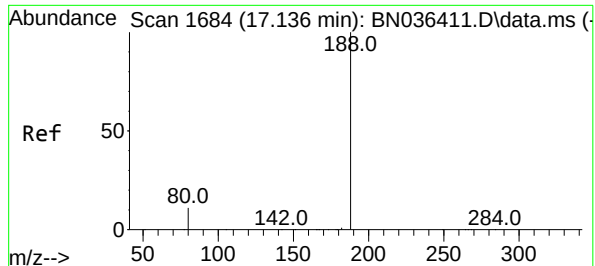
Tgt Ion:154 Resp: 17130
Ion Ratio Lower Upper
154 100
153 114.1 93.3 139.9
152 58.1 48.8 73.2



#18
Fluorene
Concen: 1.638 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:166 Resp: 24341
Ion Ratio Lower Upper
166 100
165 99.5 79.5 119.3
167 13.2 10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

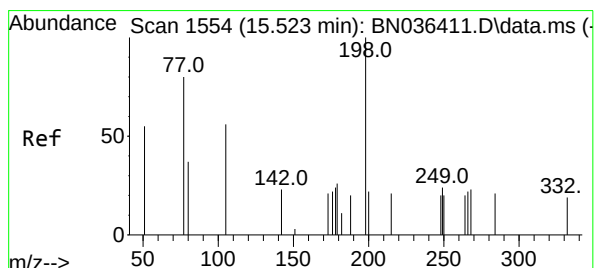
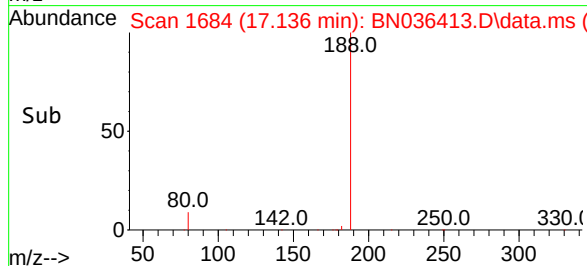
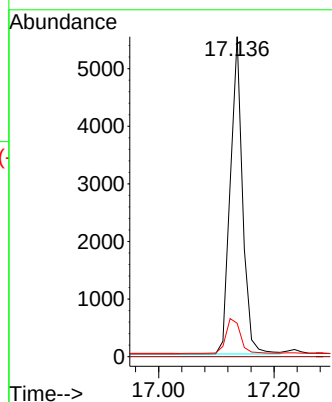
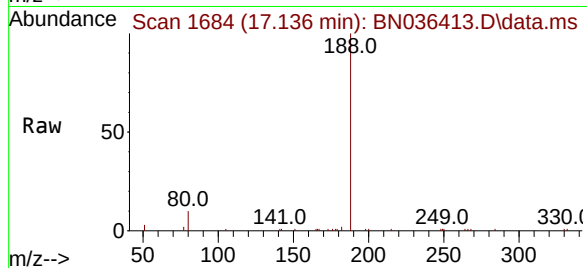
Tgt Ion:188 Resp: 8137

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.5 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 1.497 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

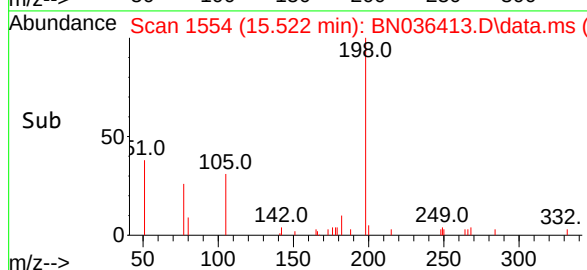
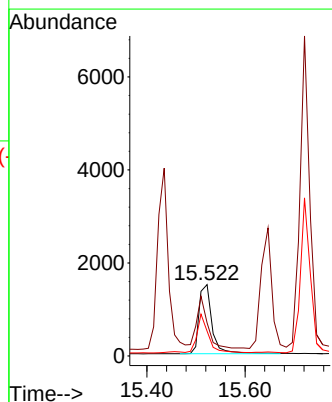
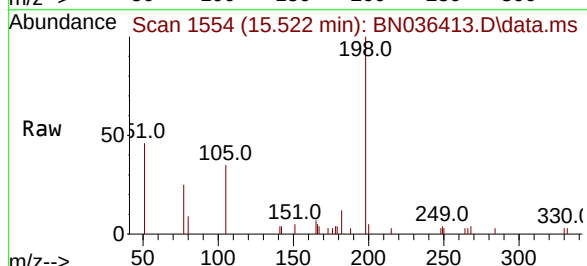
Tgt Ion:198 Resp: 2725

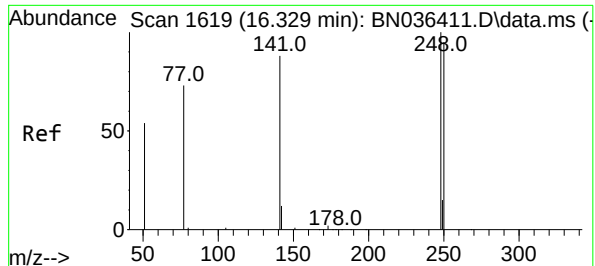
Ion Ratio Lower Upper

198 100

51 46.4 86.6 129.8#

105 34.9 57.5 86.3#

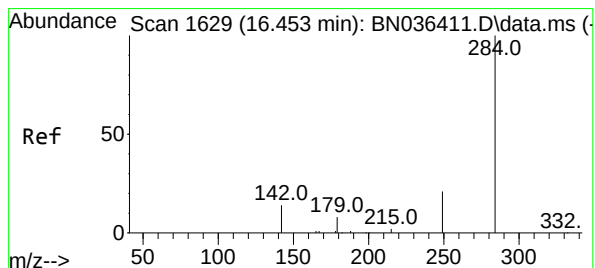
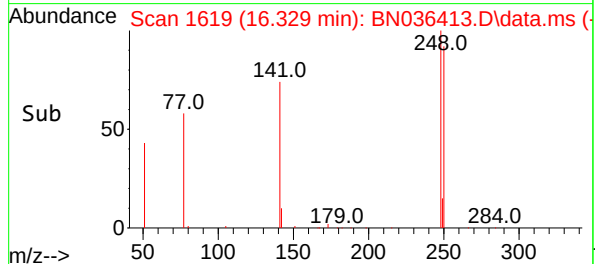
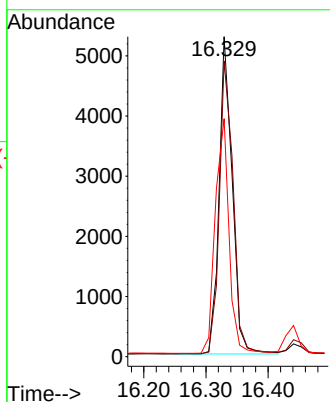
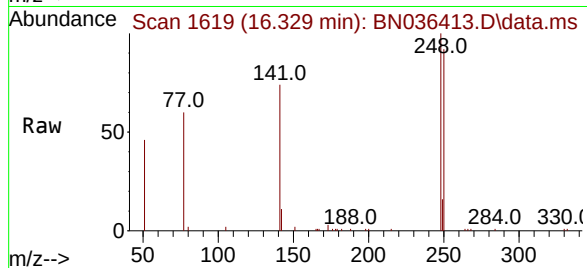




#21
4-Bromophenyl-phenylether
Concen: 1.379 ng
RT: 16.329 min Scan# 1619
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

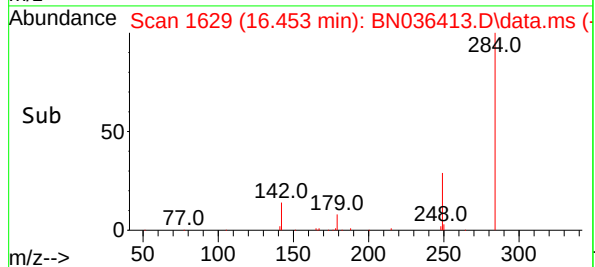
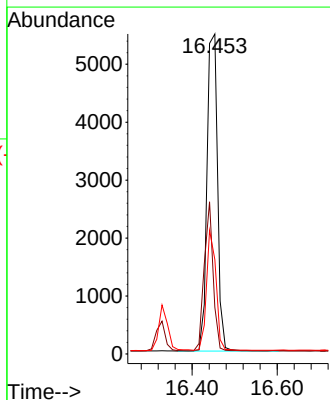
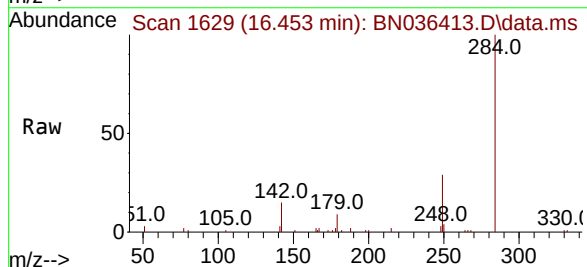
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

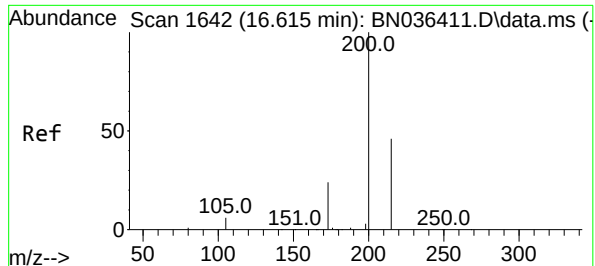
Tgt Ion:248 Resp: 7690
Ion Ratio Lower Upper
248 100
250 92.4 76.1 114.1
141 74.4 71.7 107.5



#22
Hexachlorobenzene
Concen: 1.292 ng
RT: 16.453 min Scan# 1629
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:284 Resp: 9401
Ion Ratio Lower Upper
284 100
142 39.9 33.4 50.0
249 34.3 28.6 43.0

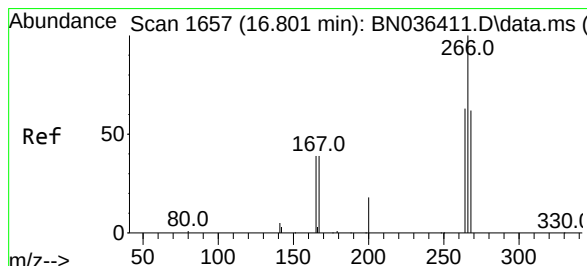
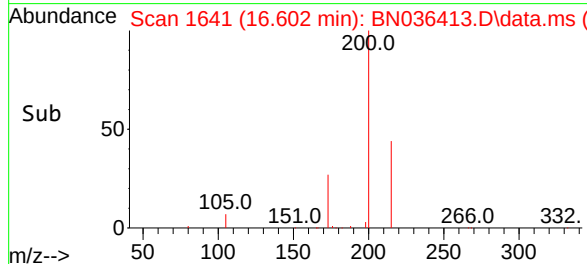
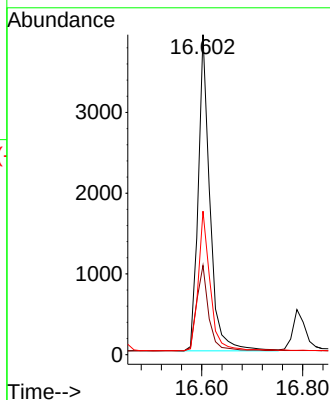
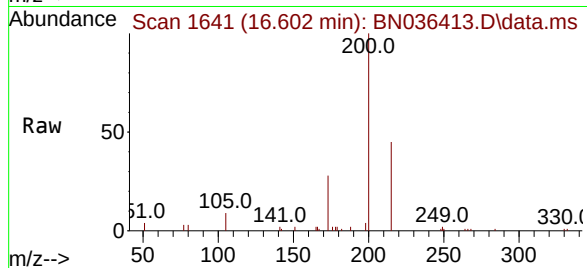




#23
Atrazine
Concen: 1.541 ng
RT: 16.602 min Scan# 1641
Delta R.T. -0.012 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

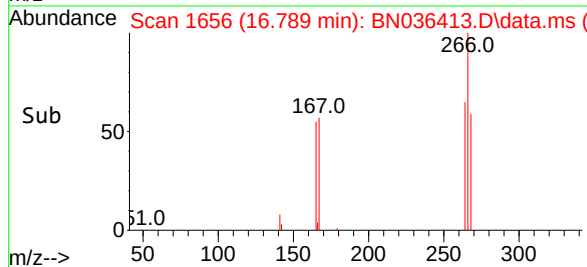
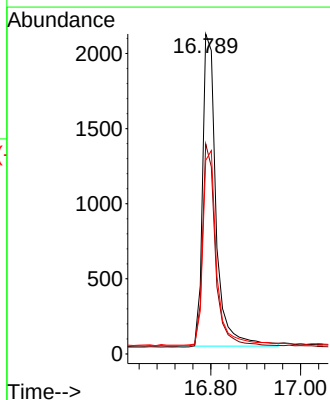
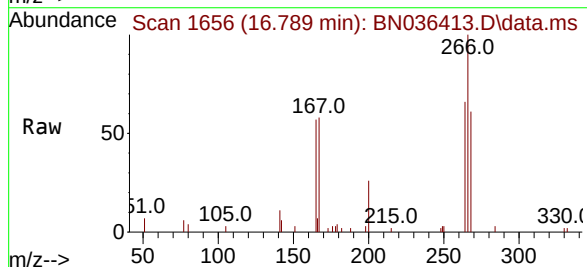
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

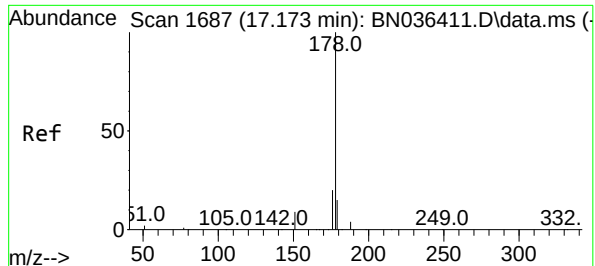
Tgt Ion:200 Resp: 6316
Ion Ratio Lower Upper
200 100
173 27.9 23.2 34.8
215 44.8 40.0 60.0



#24
Pentachlorophenol
Concen: 1.368 ng
RT: 16.789 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:266 Resp: 4352
Ion Ratio Lower Upper
266 100
264 63.3 50.6 76.0
268 63.3 51.9 77.9

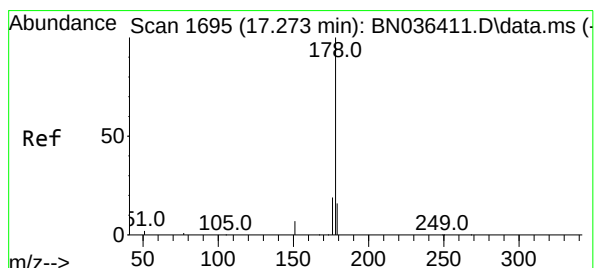
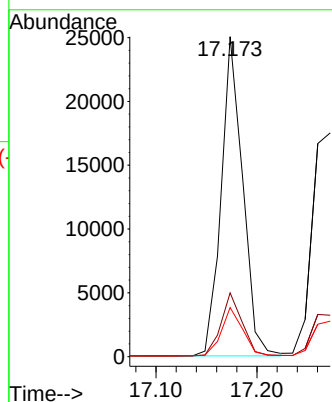
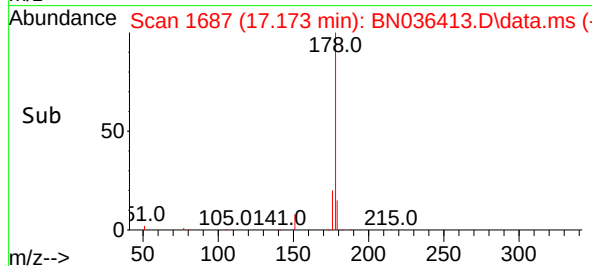
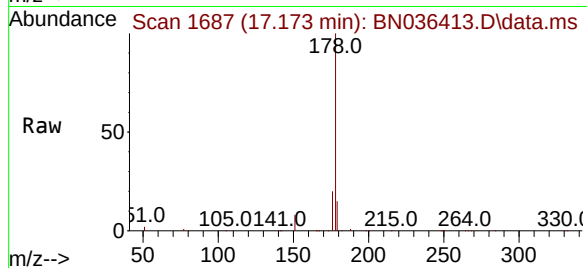




#25
Phenanthrene
Concen: 1.552 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

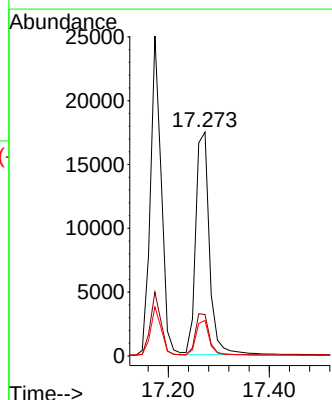
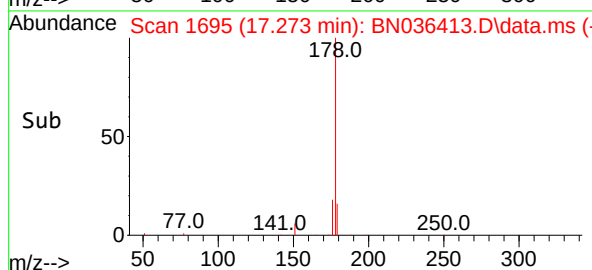
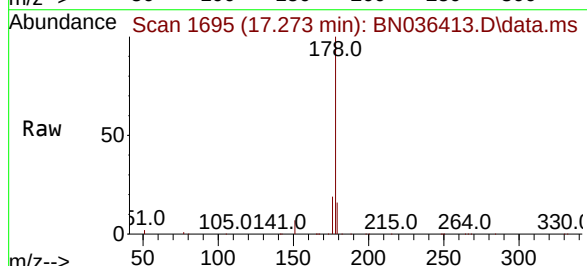
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

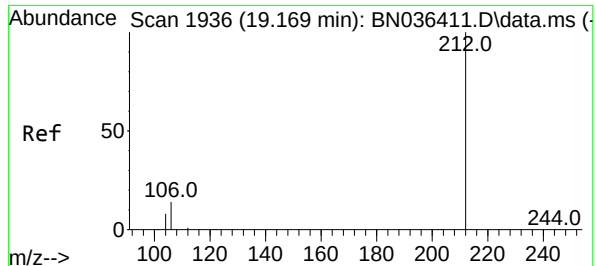
Tgt Ion:178 Resp: 37027
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.1 12.4 18.6



#26
Anthracene
Concen: 1.524 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:178 Resp: 33031
Ion Ratio Lower Upper
178 100
176 18.9 14.9 22.3
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 1.707 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

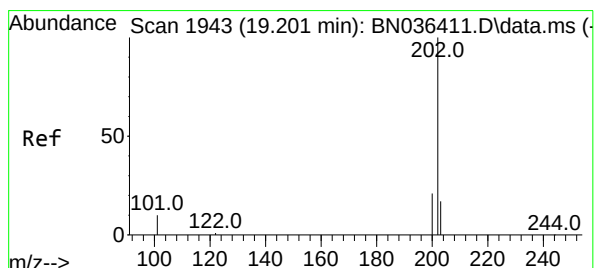
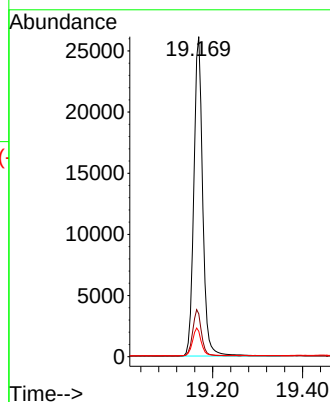
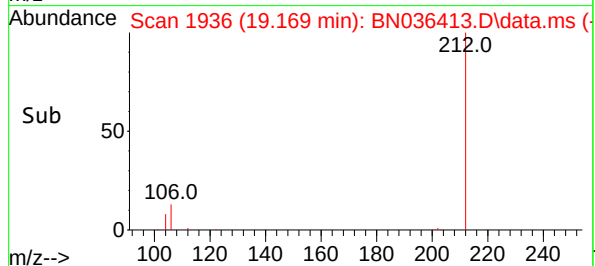
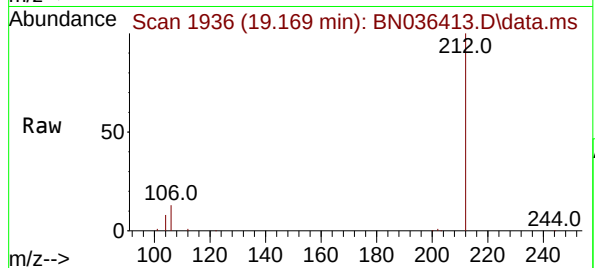
Tgt Ion:212 Resp: 35740

Ion Ratio Lower Upper

212 100

106 14.4 11.5 17.3

104 8.5 7.1 10.7



#28

Fluoranthene

Concen: 1.617 ng

RT: 19.197 min Scan# 1942

Delta R.T. -0.005 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

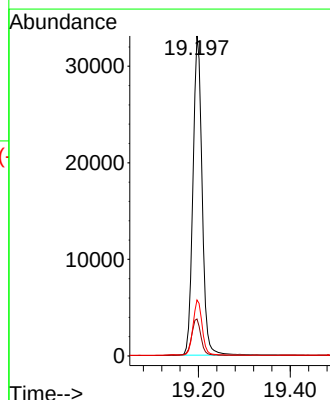
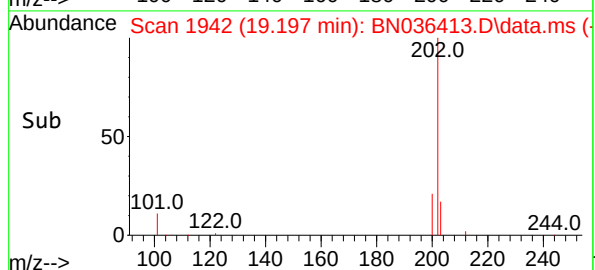
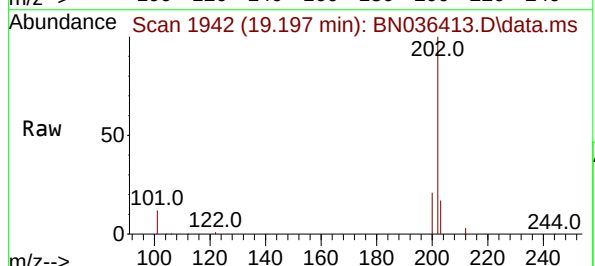
Tgt Ion:202 Resp: 45708

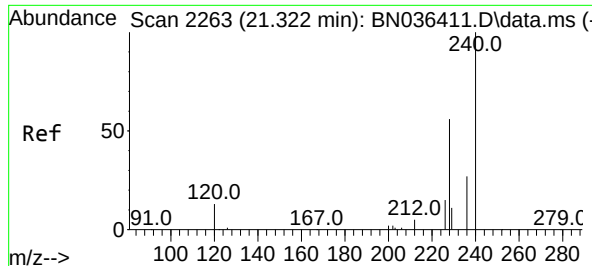
Ion Ratio Lower Upper

202 100

101 11.8 9.2 13.8

203 17.0 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036413.D

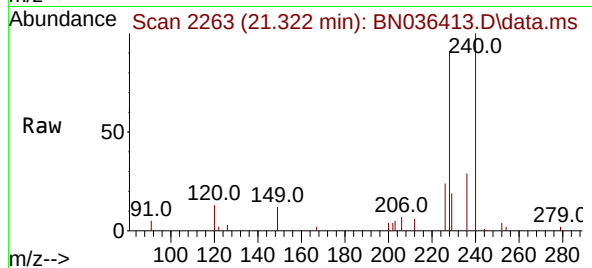
Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



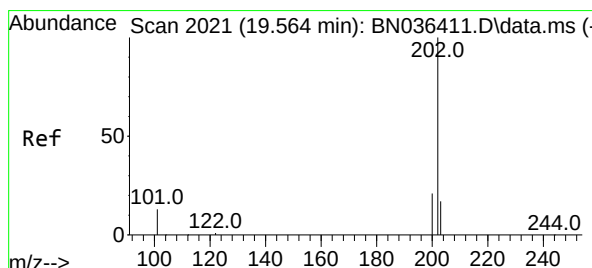
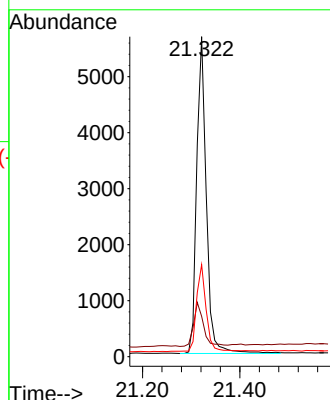
Tgt Ion:240 Resp: 7773

Ion Ratio Lower Upper

240 100

120 12.6 13.3 19.9#

236 28.8 23.0 34.6



#30

Pyrene

Concen: 1.489 ng

RT: 19.559 min Scan# 2020

Delta R.T. -0.005 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

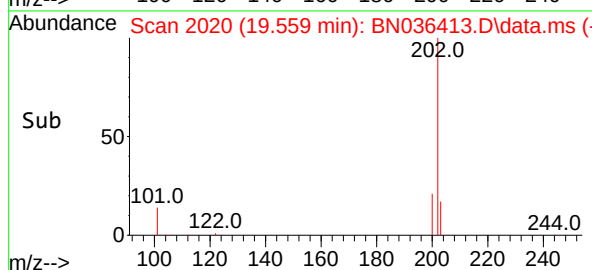
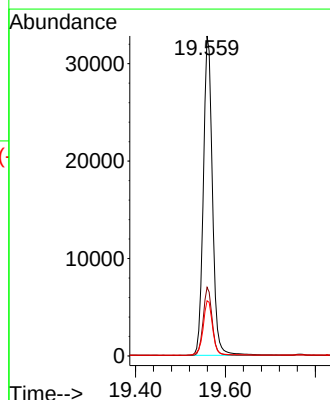
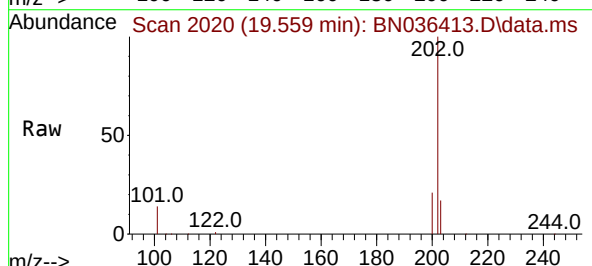
Tgt Ion:202 Resp: 46256

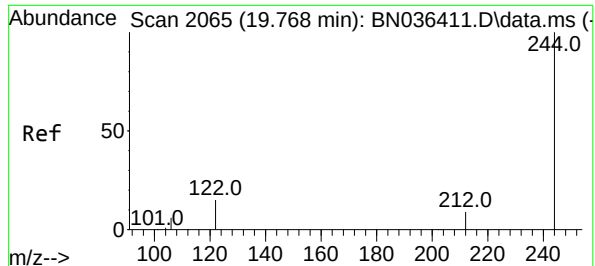
Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

203 17.7 13.9 20.9

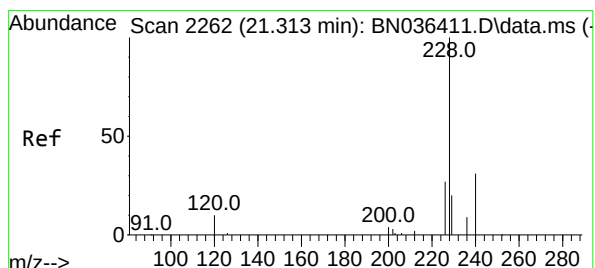
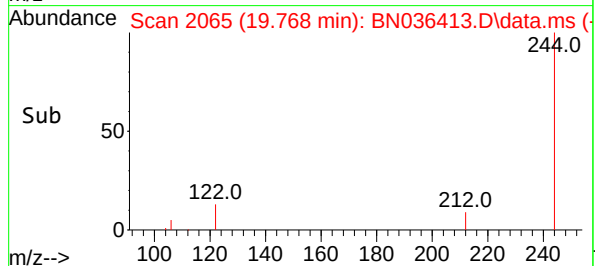
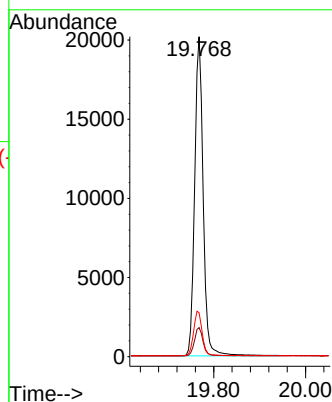
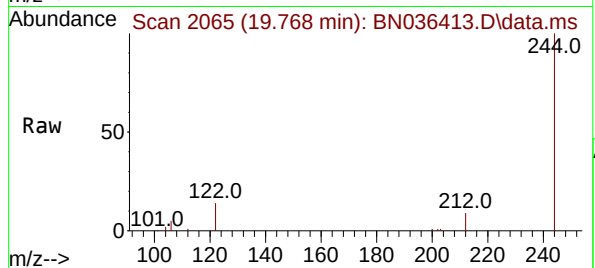




#31
Terphenyl-d14
Concen: 1.611 ng
RT: 19.768 min Scan# 2065
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

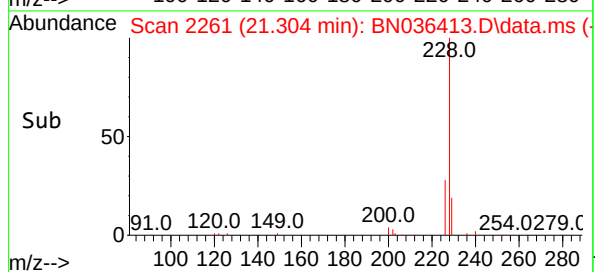
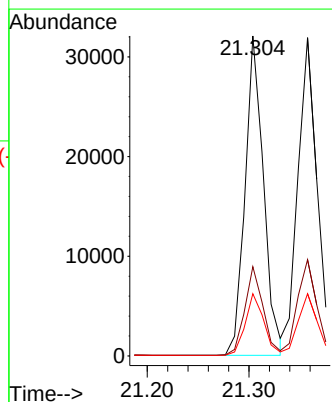
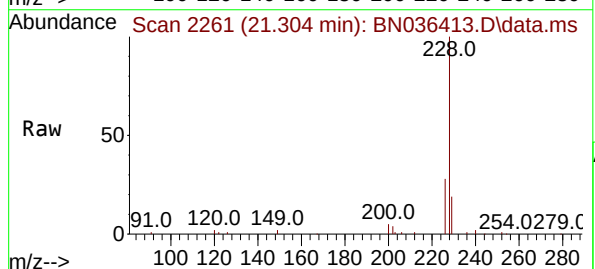
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

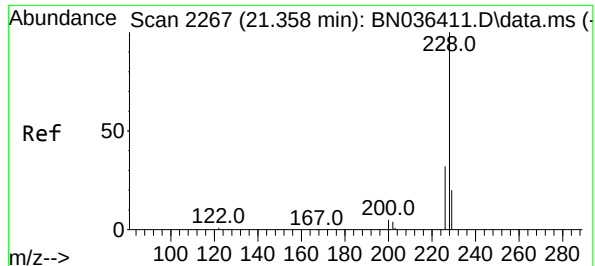
Tgt Ion:244 Resp: 25927
Ion Ratio Lower Upper
244 100
212 9.1 8.1 12.1
122 13.8 12.8 19.2



#32
Benzo(a)anthracene
Concen: 1.463 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.009 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:228 Resp: 40416
Ion Ratio Lower Upper
228 100
226 27.9 22.2 33.2
229 19.5 16.5 24.7





#33

Chrysene

Concen: 1.542 ng

RT: 21.357 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

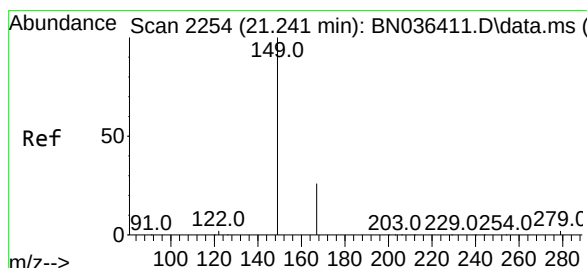
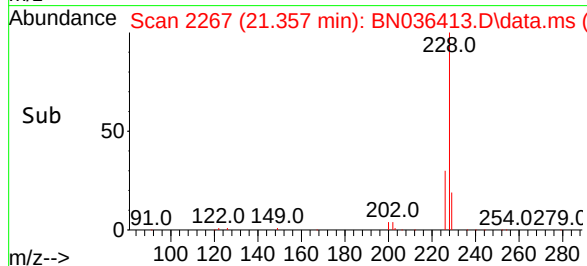
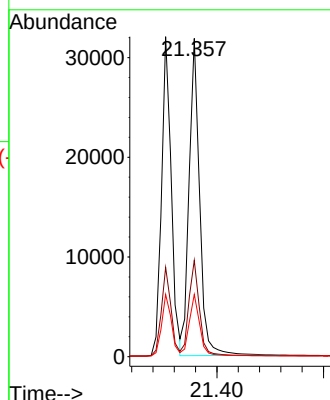
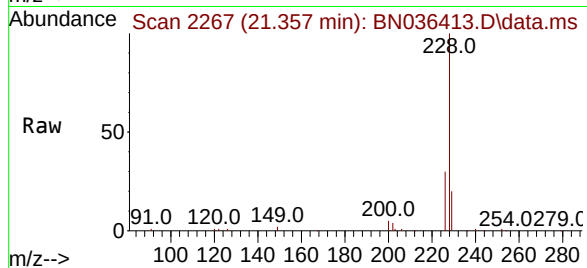
Tgt Ion:228 Resp: 43661

Ion Ratio Lower Upper

228 100

226 30.3 25.5 38.3

229 19.5 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.538 ng

RT: 21.241 min Scan# 2254

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

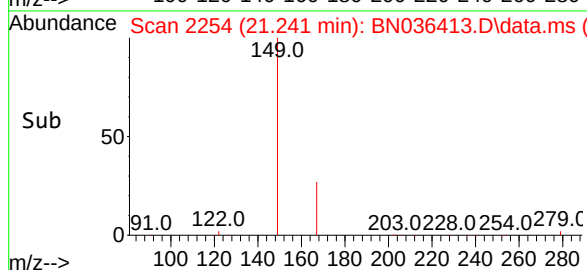
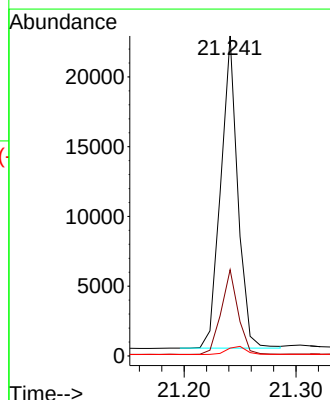
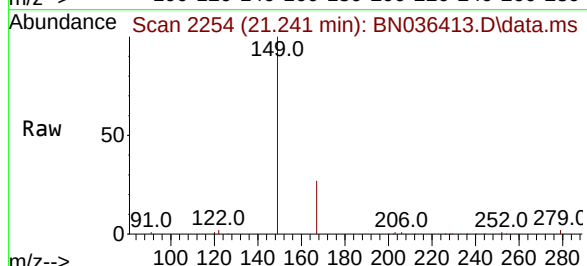
Tgt Ion:149 Resp: 23672

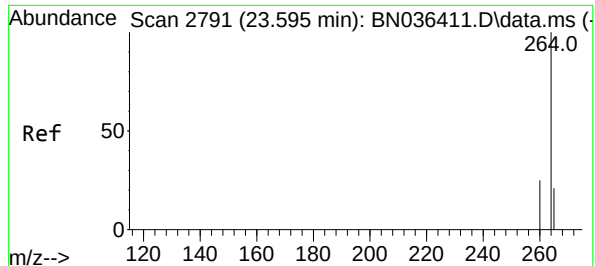
Ion Ratio Lower Upper

149 100

167 26.9 21.2 31.8

279 3.0 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.592 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036413.D

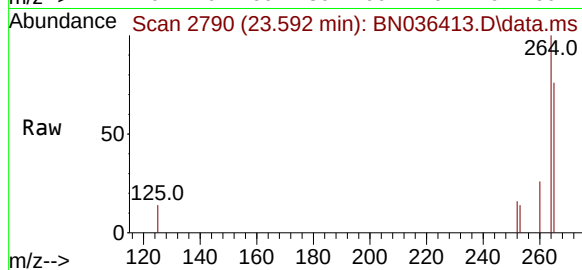
Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



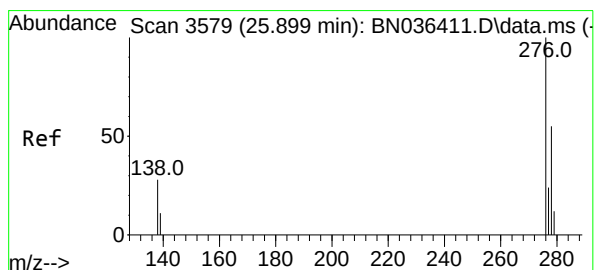
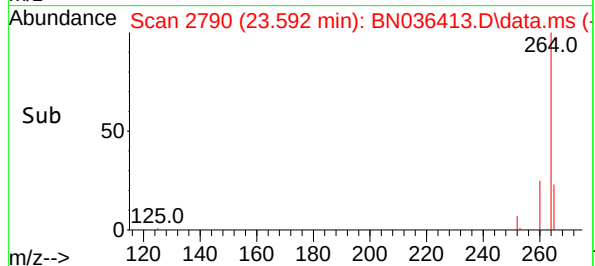
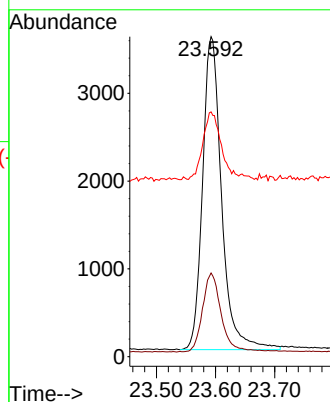
Tgt Ion:264 Resp: 7967

Ion Ratio Lower Upper

264 100

260 26.1 20.9 31.3

265 76.5 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.472 ng

RT: 25.890 min Scan# 3576

Delta R.T. -0.009 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

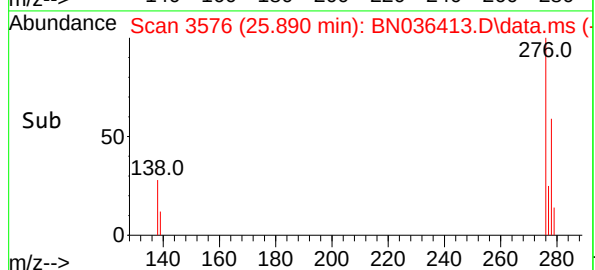
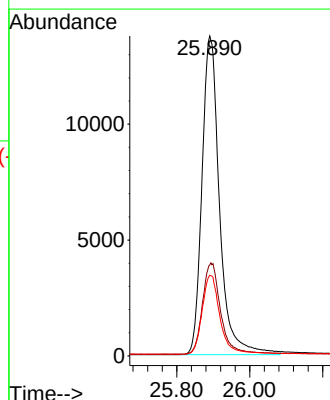
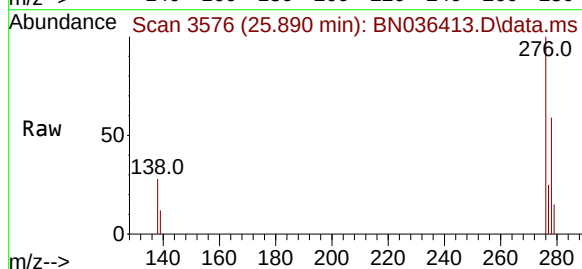
Tgt Ion:276 Resp: 46083

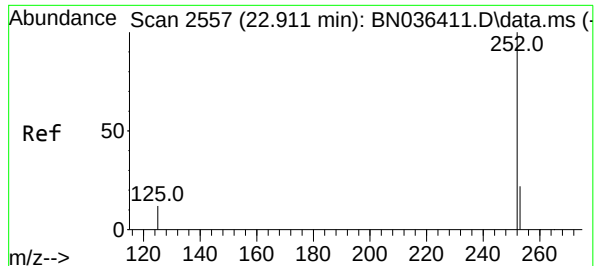
Ion Ratio Lower Upper

276 100

138 29.4 22.2 33.2

277 25.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 1.502 ng

RT: 22.908 min Scan# 2556

Delta R.T. -0.003 min

Lab File: BN036413.D

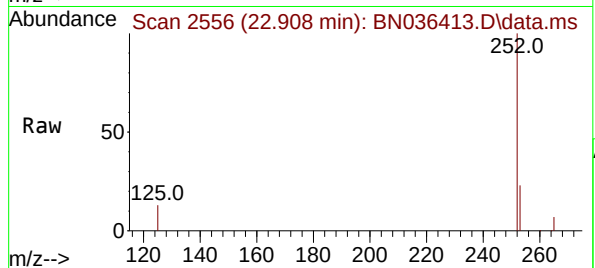
Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



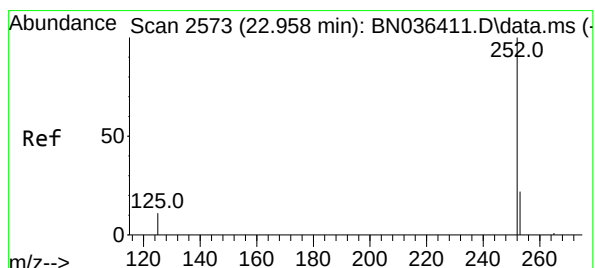
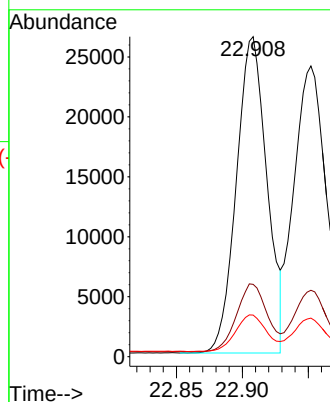
Tgt Ion:252 Resp: 42491

Ion Ratio Lower Upper

252 100

253 22.6 21.9 32.9

125 13.0 15.0 22.6#



#38

Benzo(k)fluoranthene

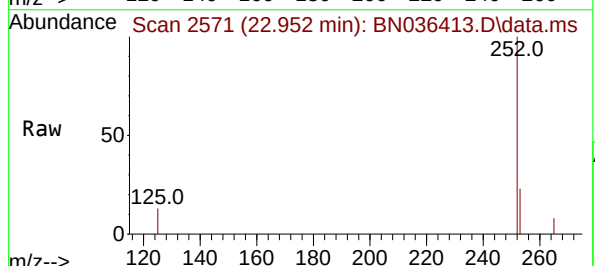
Concen: 1.489 ng

RT: 22.952 min Scan# 2571

Delta R.T. -0.006 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48



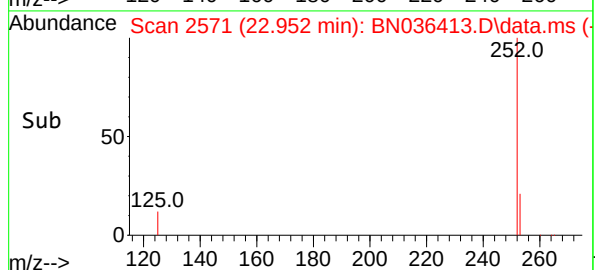
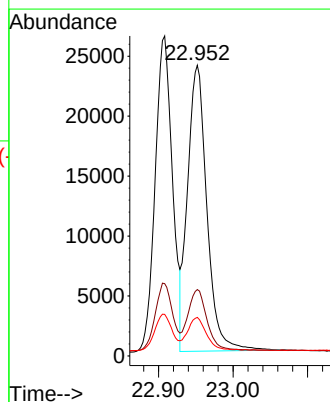
Tgt Ion:252 Resp: 42933

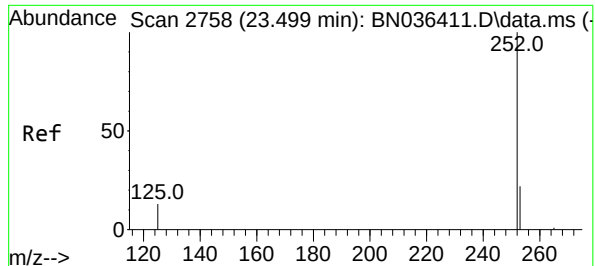
Ion Ratio Lower Upper

252 100

253 22.8 22.2 33.4

125 13.2 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 1.503 ng

RT: 23.493 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

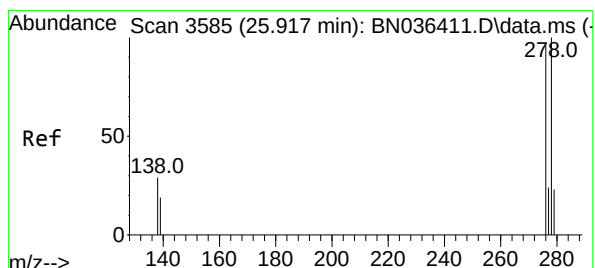
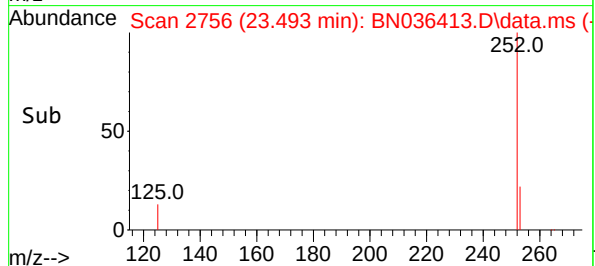
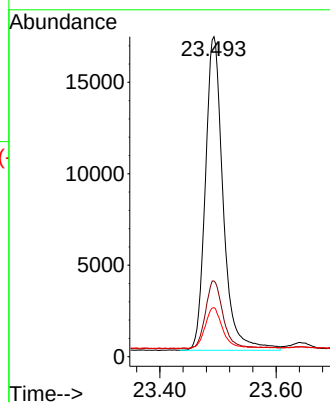
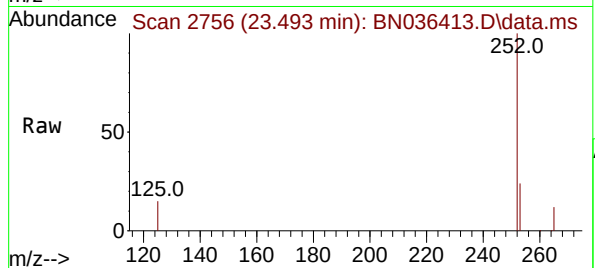
Tgt Ion:252 Resp: 36490

Ion Ratio Lower Upper

252 100

253 23.7 24.4 36.6#

125 15.3 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 1.478 ng

RT: 25.905 min Scan# 3581

Delta R.T. -0.012 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

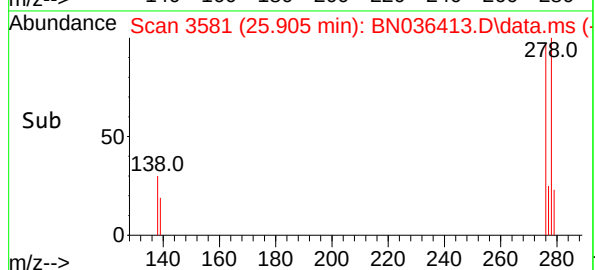
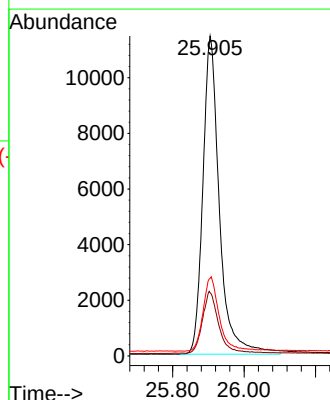
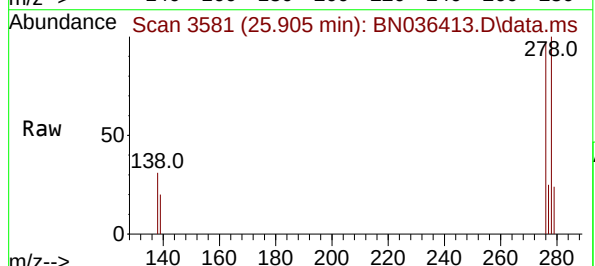
Tgt Ion:278 Resp: 36765

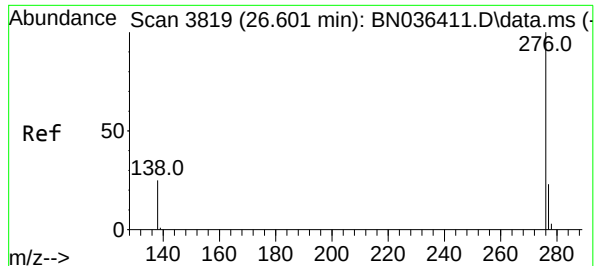
Ion Ratio Lower Upper

278 100

139 19.7 18.5 27.7

279 24.3 24.8 37.2#





#41

Benzo(g,h,i)perylene

Concen: 1.482 ng

RT: 26.592 min Scan# 3816

Delta R.T. -0.009 min

Lab File: BN036413.D

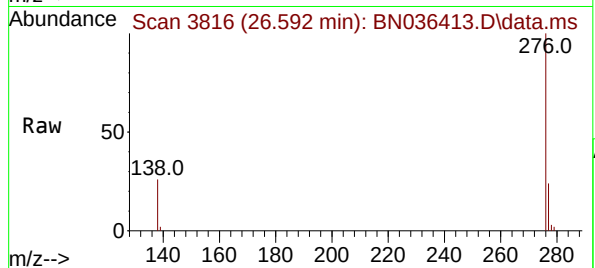
Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



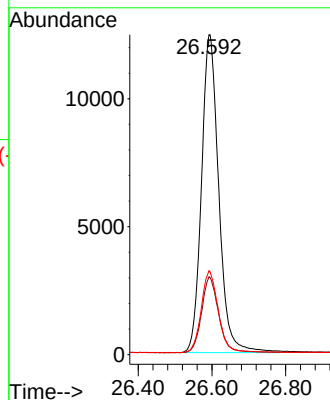
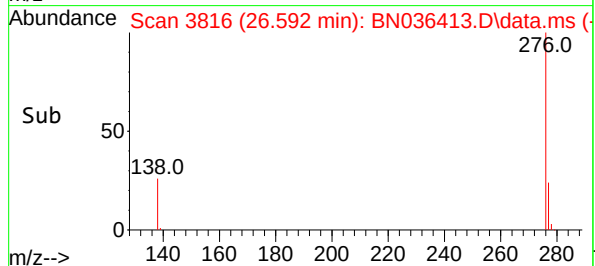
Tgt Ion:276 Resp: 40441

Ion Ratio Lower Upper

276 100

277 24.3 20.7 31.1

138 26.3 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036414.D
 Acq On : 10 Feb 2025 15:24
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Feb 11 00:37:03 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

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

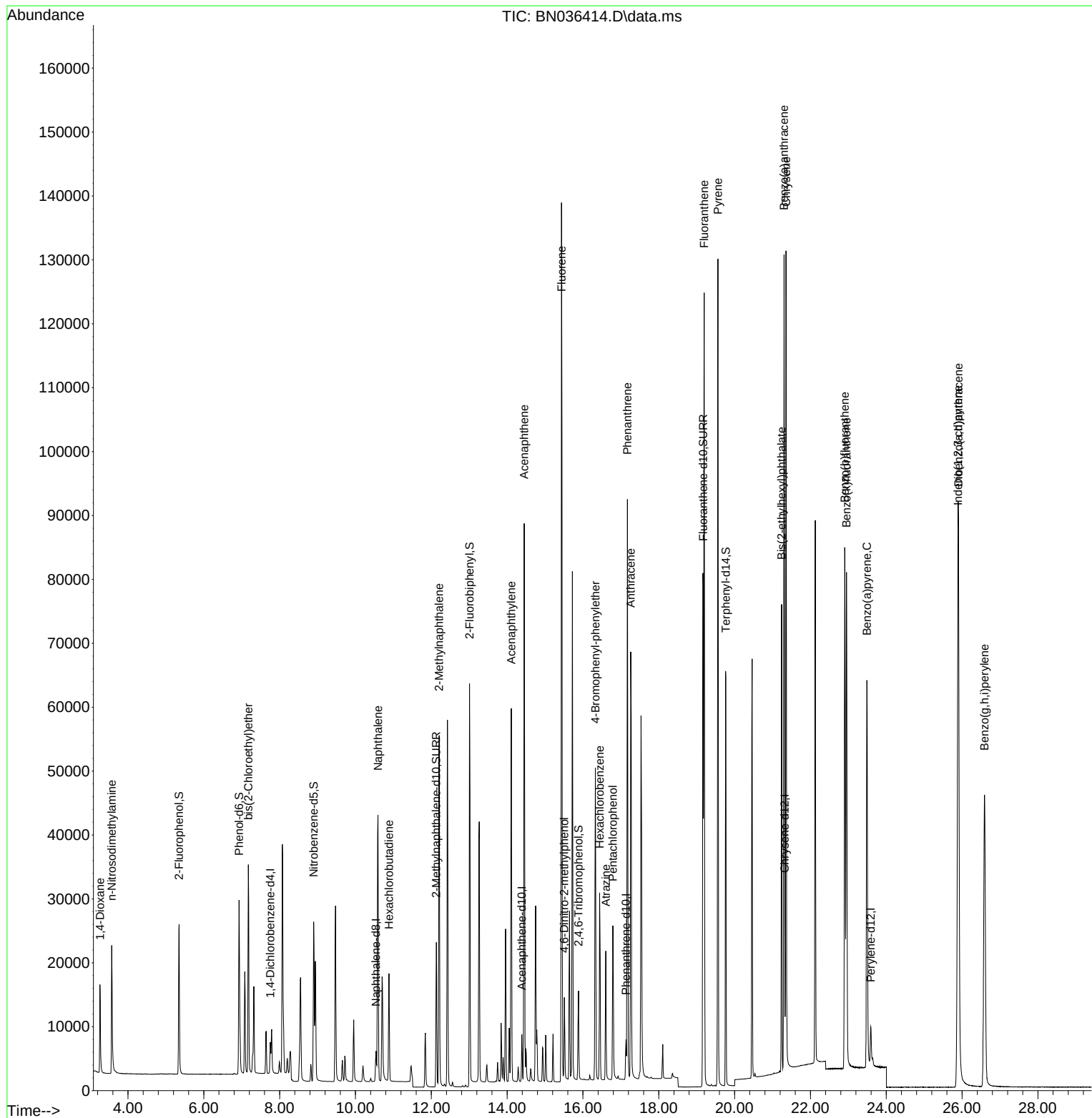
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2264	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	5888	0.400	ng	# 0.00
13) Acenaphthene-d10	14.388	164	3870	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	8443	0.400	ng	0.00
29) Chrysene-d12	21.322	240	8450	0.400	ng	# 0.00
35) Perylene-d12	23.592	264	8327	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	18096	3.140	ng	0.00
5) Phenol-d6	6.930	99	22949	3.414	ng	0.00
8) Nitrobenzene-d5	8.897	82	19636	3.579	ng	-0.01
11) 2-Methylnaphthalene-d10	12.131	152	31489	3.909	ng	-0.01
14) 2,4,6-Tribromophenol	15.883	330	7004	2.937	ng	0.00
15) 2-Fluorobiphenyl	13.009	172	53807	3.260	ng	-0.01
27) Fluoranthene-d10	19.169	212	84968	3.911	ng	0.00
31) Terphenyl-d14	19.768	244	61695	3.526	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.261	88	7842	3.133	ng	97
3) n-Nitrosodimethylamine	3.572	42	13931	3.098	ng	# 98
6) bis(2-Chloroethyl)ether	7.176	93	22184	3.968	ng	99
9) Naphthalene	10.594	128	55857	3.321	ng	97
10) Hexachlorobutadiene	10.883	225	13261	2.516	ng	# 100
12) 2-Methylnaphthalene	12.207	142	38458	3.640	ng	98
16) Acenaphthylene	14.110	152	60797	3.395	ng	100
17) Acenaphthene	14.452	154	39414	3.214	ng	98
18) Fluorene	15.435	166	56634	3.589	ng	100
20) 4,6-Dinitro-2-methylph...	15.510	198	7256	3.841	ng	# 74
21) 4-Bromophenyl-phenylether	16.329	248	17824	3.081	ng	# 86
22) Hexachlorobenzene	16.441	284	21378	2.832	ng	97
23) Atrazine	16.602	200	15456	3.634	ng	92
24) Pentachlorophenol	16.789	266	11492	3.481	ng	100
25) Phenanthrene	17.173	178	85950	3.473	ng	99
26) Anthracene	17.260	178	78802	3.504	ng	99
28) Fluoranthene	19.197	202	108527	3.700	ng	99
30) Pyrene	19.559	202	110153	3.262	ng	100
32) Benzo(a)anthracene	21.304	228	99445	3.312	ng	99
33) Chrysene	21.358	228	103234	3.354	ng	97
34) Bis(2-ethylhexyl)phtha...	21.241	149	58234	3.480	ng	99
36) Indeno(1,2,3-cd)pyrene	25.890	276	108596	3.320	ng	97
37) Benzo(b)fluoranthene	22.905	252	101833	3.445	ng	# 88
38) Benzo(k)fluoranthene	22.952	252	102040	3.385	ng	# 88
39) Benzo(a)pyrene	23.490	252	87191	3.437	ng	# 84
40) Dibenzo(a,h)anthracene	25.905	278	86887	3.343	ng	# 90
41) Benzo(g,h,i)perylene	26.592	276	93260	3.269	ng	97

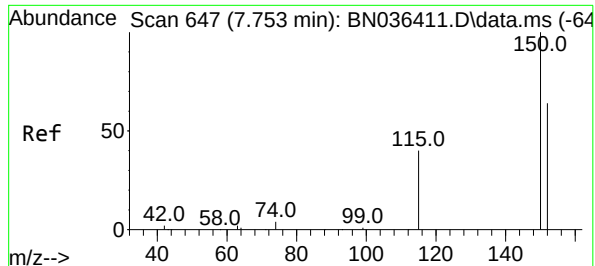
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036414.D
Acq On : 10 Feb 2025 15:24
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Feb 11 00:37:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

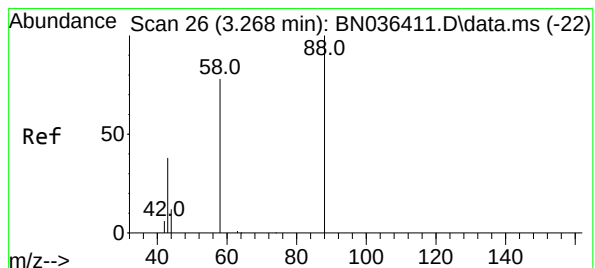
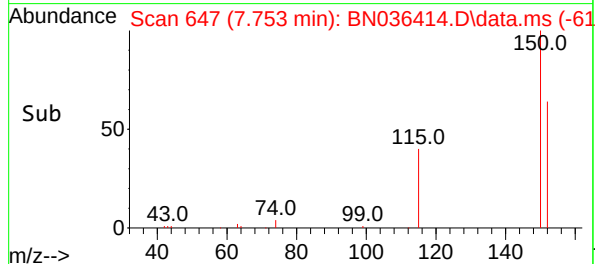
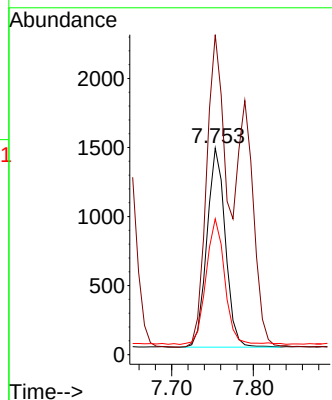
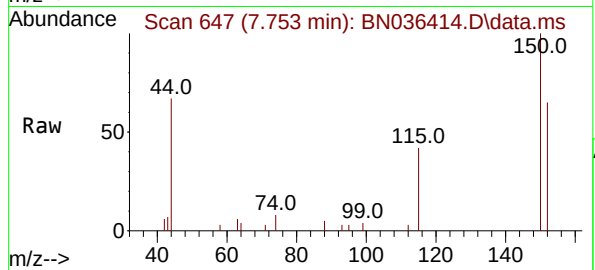




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

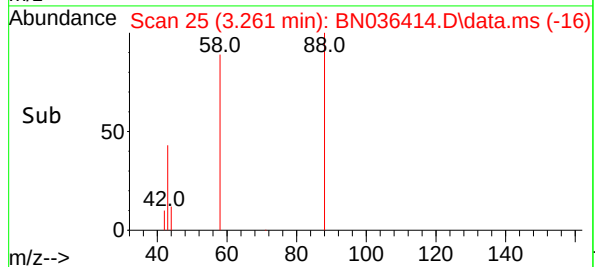
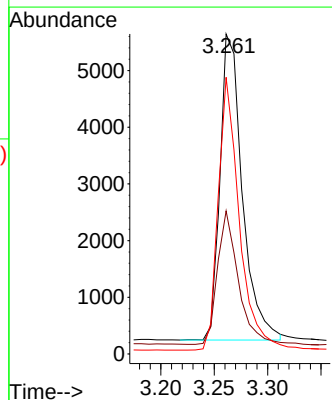
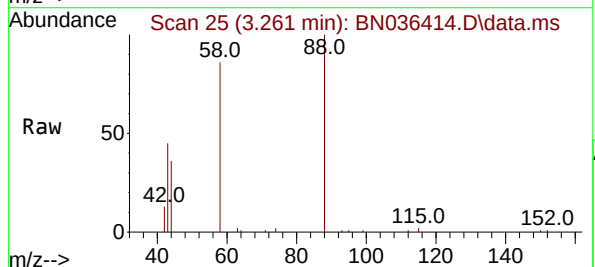
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

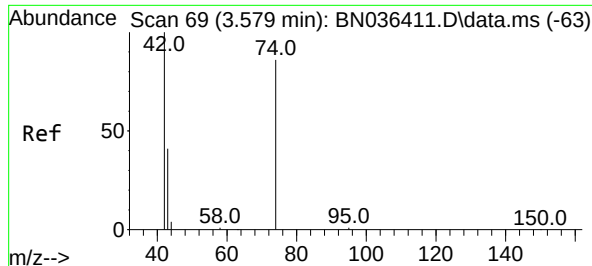
Tgt Ion:152 Resp: 2264
Ion Ratio Lower Upper
152 100
150 154.9 123.7 185.5
115 65.7 52.5 78.7



#2
1,4-Dioxane
Concen: 3.133 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion: 88 Resp: 7842
Ion Ratio Lower Upper
88 100
43 40.6 33.7 50.5
58 83.7 68.9 103.3

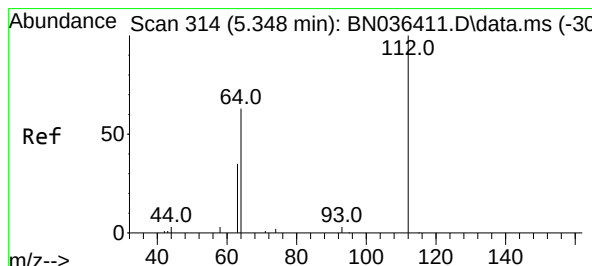
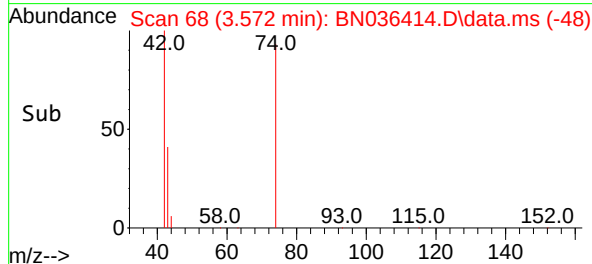
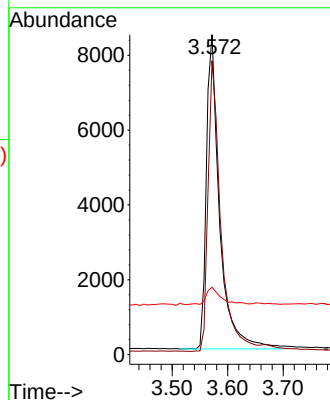
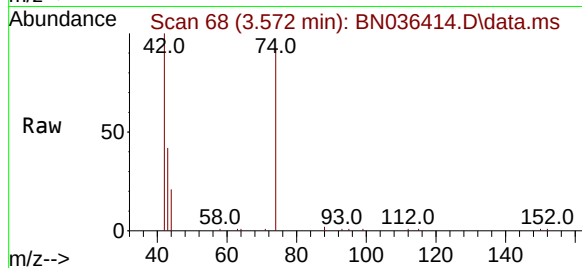




#3
n-Nitrosodimethylamine
Concen: 3.098 ng
RT: 3.572 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

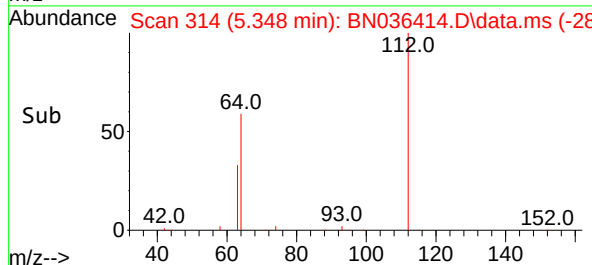
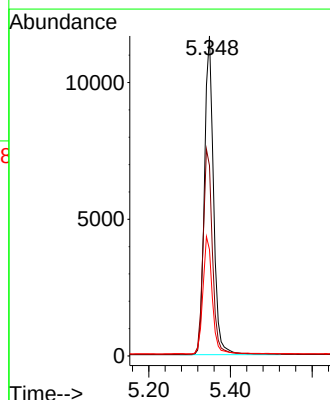
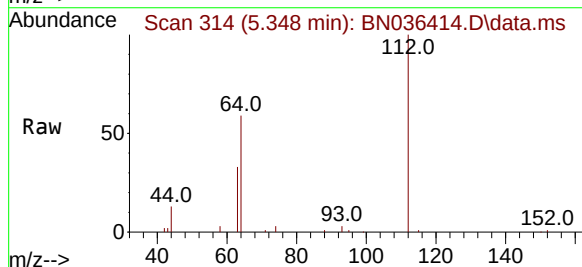
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

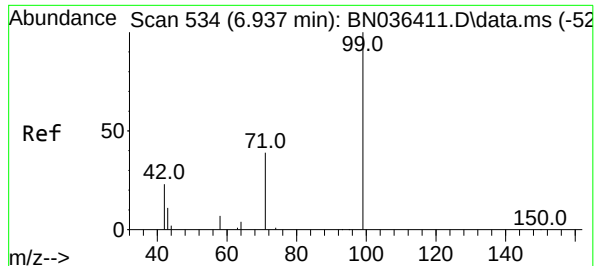
Tgt Ion: 42 Resp: 13931
Ion Ratio Lower Upper
42 100
74 91.3 71.8 107.6
44 6.4 7.8 11.6#



#4
2-Fluorophenol
Concen: 3.140 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion: 112 Resp: 18096
Ion Ratio Lower Upper
112 100
64 66.2 53.4 80.0
63 36.9 30.3 45.5

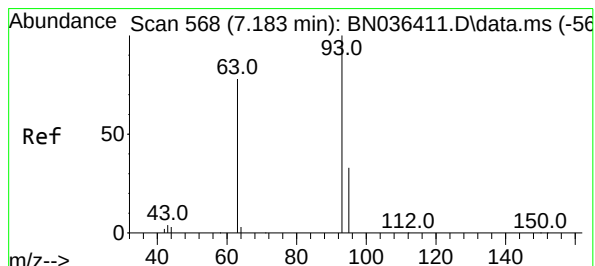
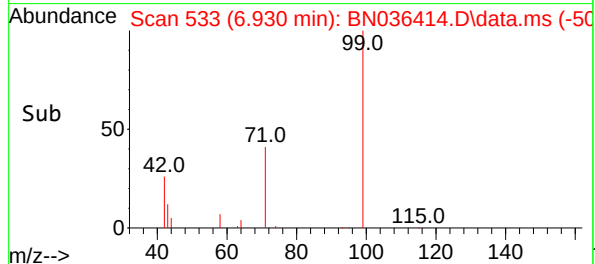
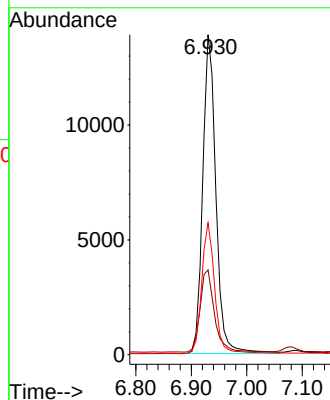
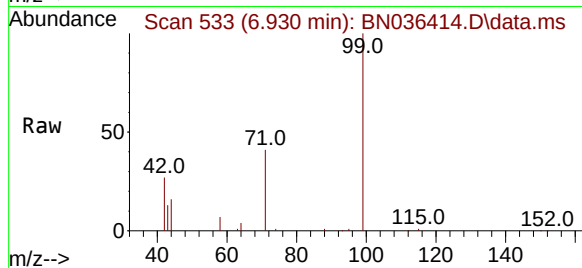




#5
Phenol-d6
Concen: 3.414 ng
RT: 6.930 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

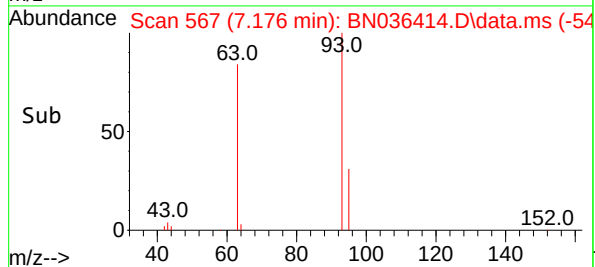
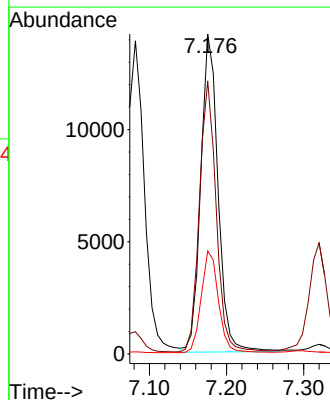
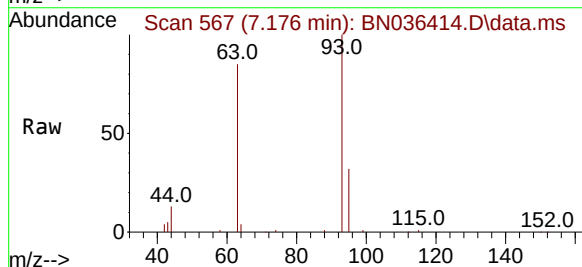
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

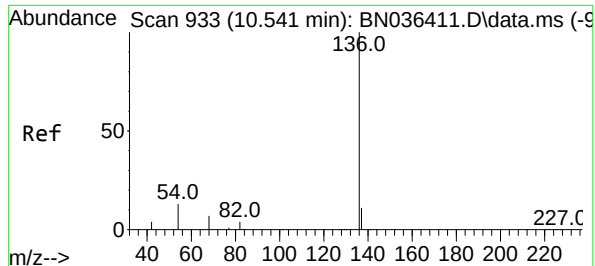
Tgt Ion: 99 Resp: 22949
Ion Ratio Lower Upper
99 100
42 28.0 21.7 32.5
71 40.5 32.6 49.0



#6
bis(2-Chloroethyl)ether
Concen: 3.968 ng
RT: 7.176 min Scan# 567
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion: 93 Resp: 22184
Ion Ratio Lower Upper
93 100
63 82.3 66.3 99.5
95 31.7 26.2 39.4

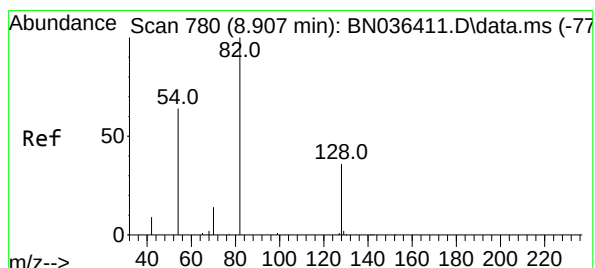
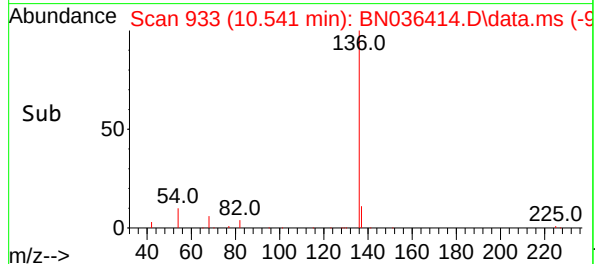
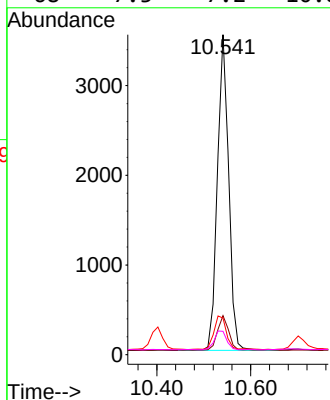
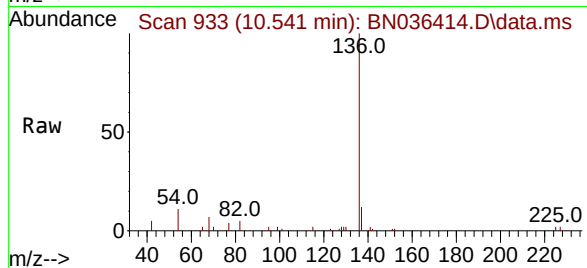




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

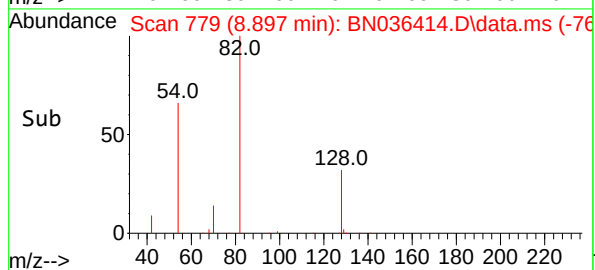
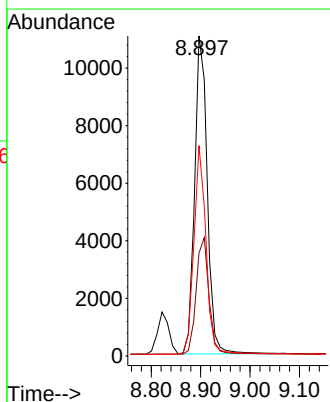
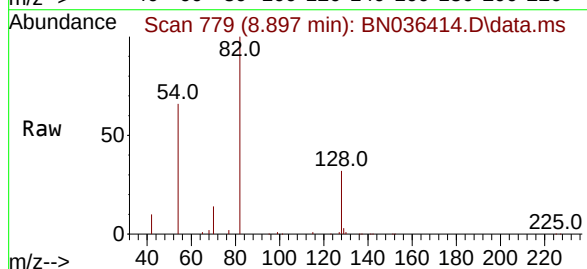
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

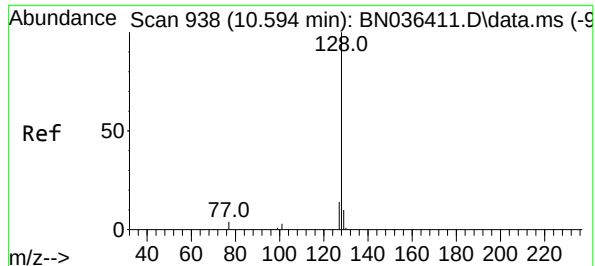
Tgt Ion:	136	Resp:	5888
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.1	15.1
54	11.4	11.8	17.6#
68	7.3	7.2	10.8



#8
Nitrobenzene-d5
Concen: 3.579 ng
RT: 8.897 min Scan# 779
Delta R.T. -0.011 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:	82	Resp:	19636
Ion	Ratio	Lower	Upper
82	100		
128	32.1	31.9	47.9
54	65.7	53.1	79.7

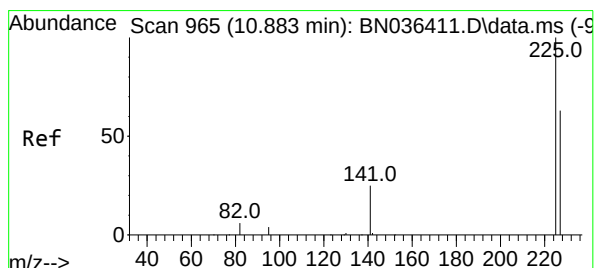
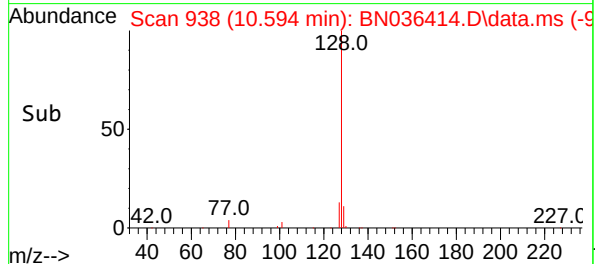
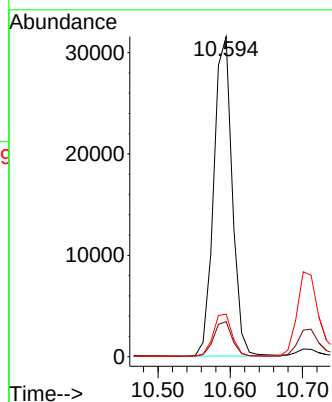
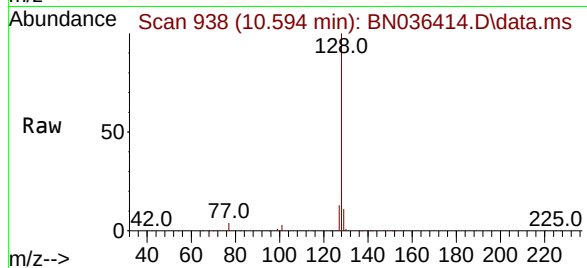


#9
Naphthalene

Concen: 3.321 ng
RT: 10.594 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 55857
Ion Ratio Lower Upper
128 100
129 11.0 9.6 14.4
127 13.3 12.0 18.0

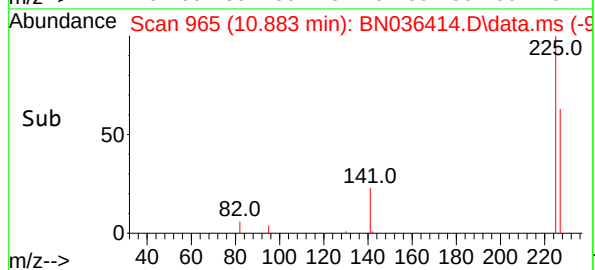
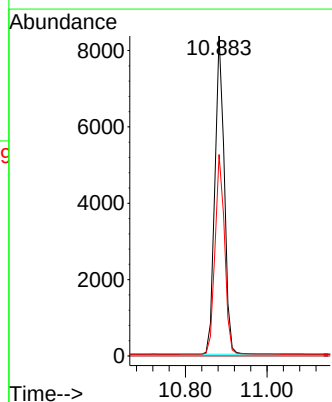
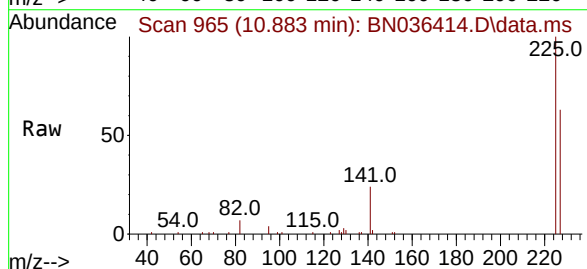


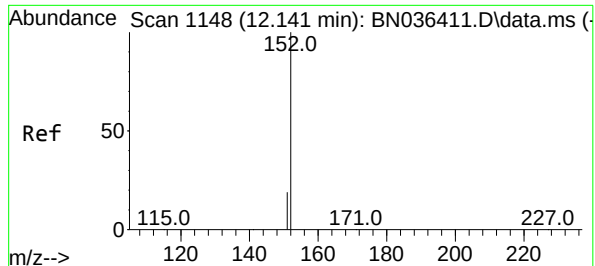
#10

Hexachlorobutadiene

Concen: 2.516 ng
RT: 10.883 min Scan# 965
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:225 Resp: 13261
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 50.9 76.3

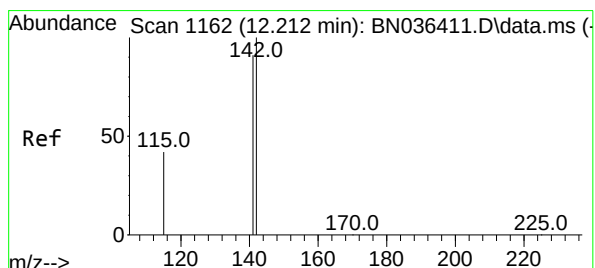
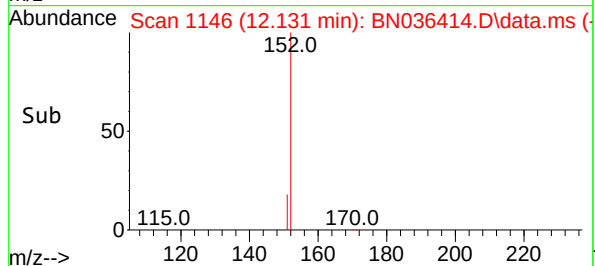
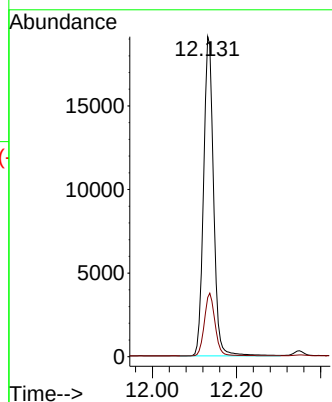
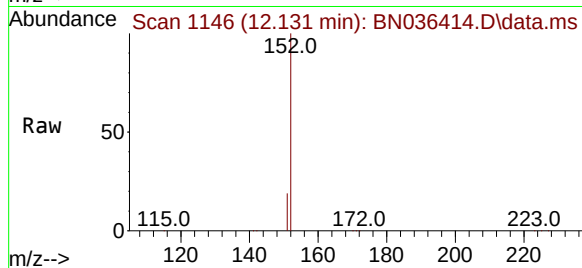




#11
2-Methylnaphthalene-d10
Concen: 3.909 ng
RT: 12.131 min Scan# 1146
Delta R.T. -0.010 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

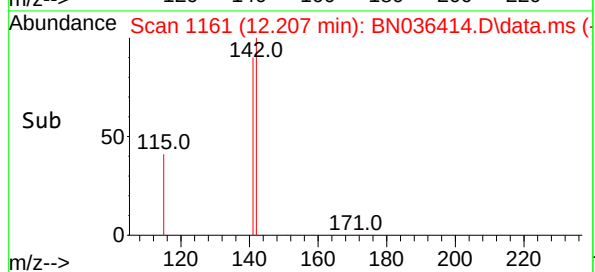
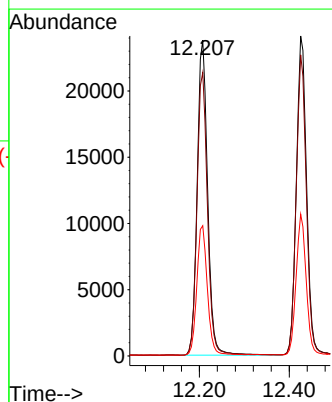
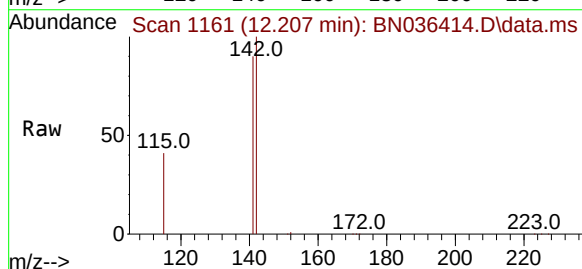
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

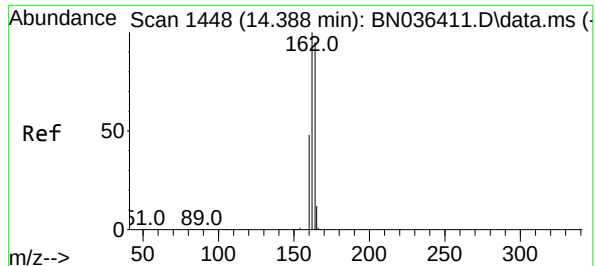
Tgt Ion:152 Resp: 31489
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0



#12
2-Methylnaphthalene
Concen: 3.640 ng
RT: 12.207 min Scan# 1161
Delta R.T. -0.005 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:142 Resp: 38458
Ion Ratio Lower Upper
142 100
141 89.8 72.8 109.2
115 41.3 35.5 53.3

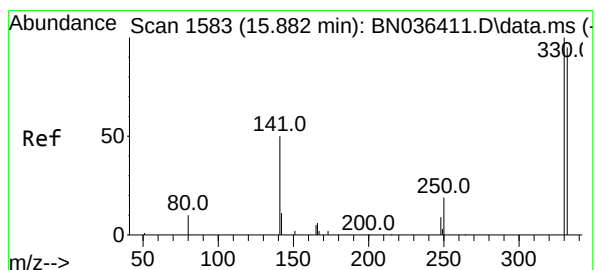
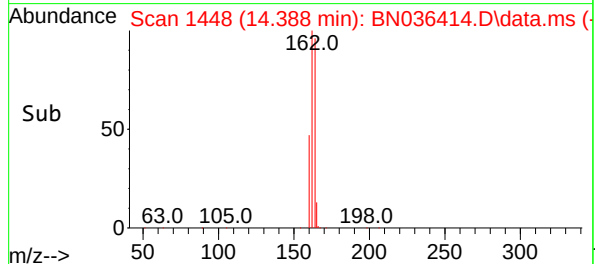
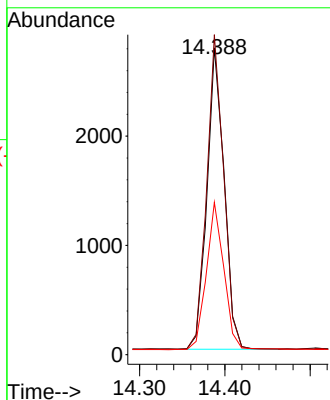
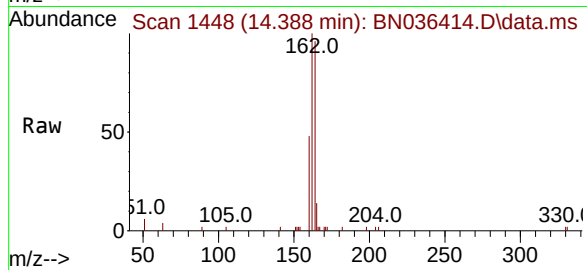




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

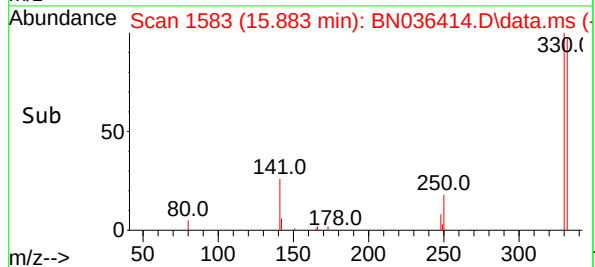
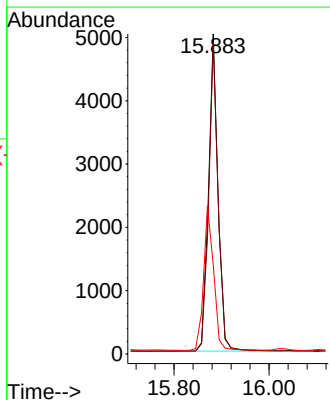
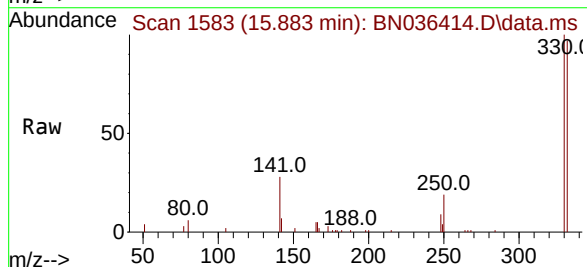
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

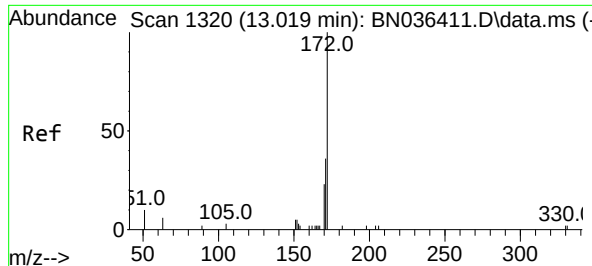
Tgt Ion:164 Resp: 3870
Ion Ratio Lower Upper
164 100
162 104.3 84.1 126.1
160 49.6 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 2.937 ng
RT: 15.883 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:330 Resp: 7004
Ion Ratio Lower Upper
330 100
332 96.5 76.6 114.8
141 48.2 37.8 56.8

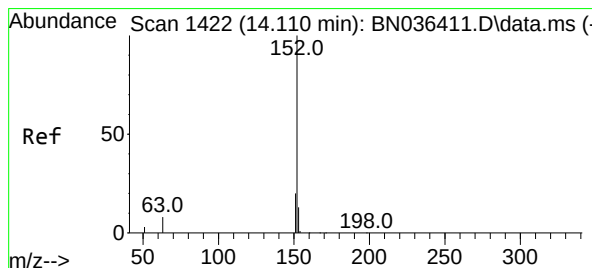
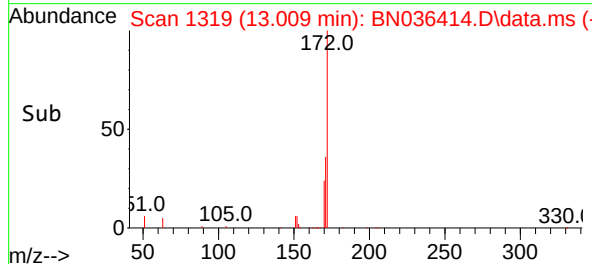
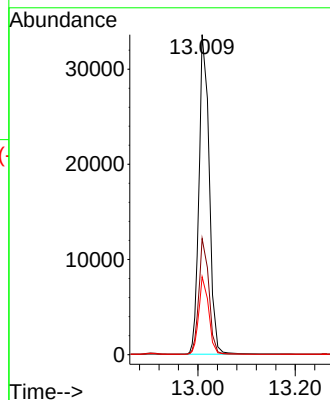
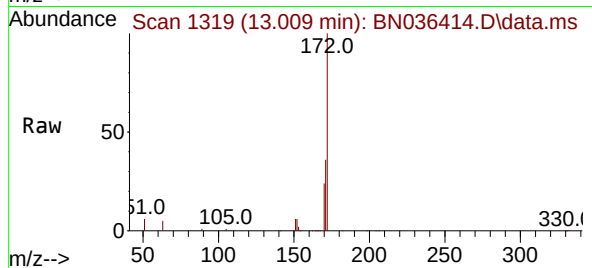




#15
2-Fluorobiphenyl
Concen: 3.260 ng
RT: 13.009 min Scan# 1319
Delta R.T. -0.011 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

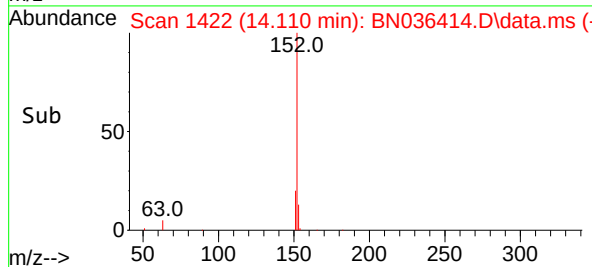
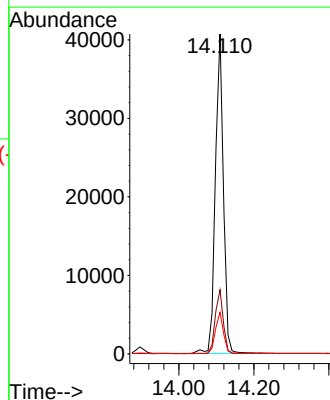
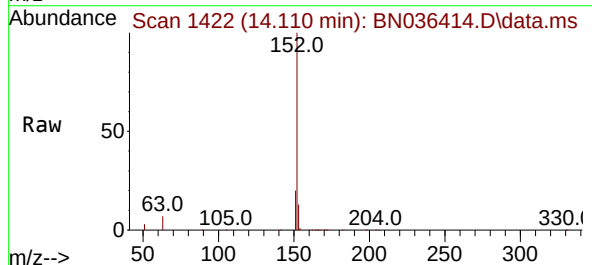
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

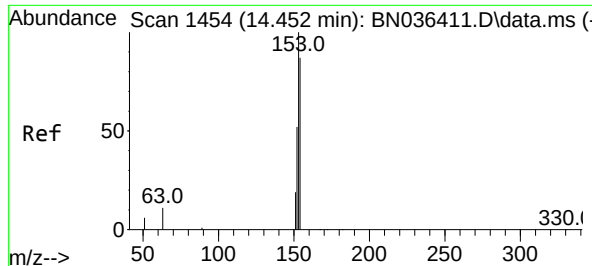
Tgt Ion:172 Resp: 53807
Ion Ratio Lower Upper
172 100
171 36.3 29.6 44.4
170 24.4 19.8 29.6



#16
Acenaphthylene
Concen: 3.395 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:152 Resp: 60797
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.8
153 12.9 10.2 15.2

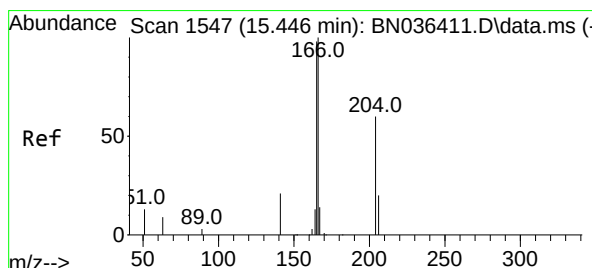
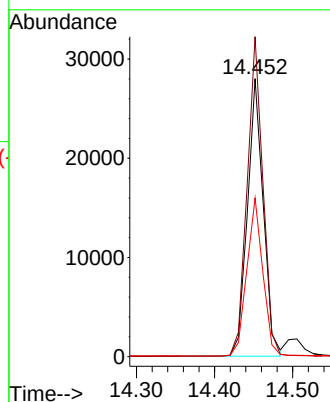
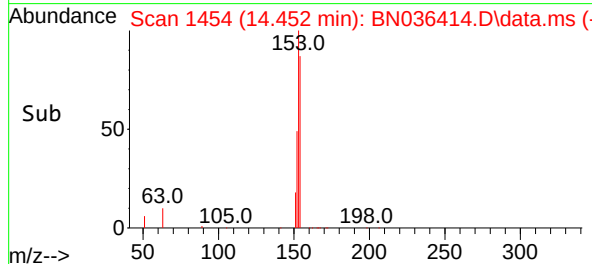
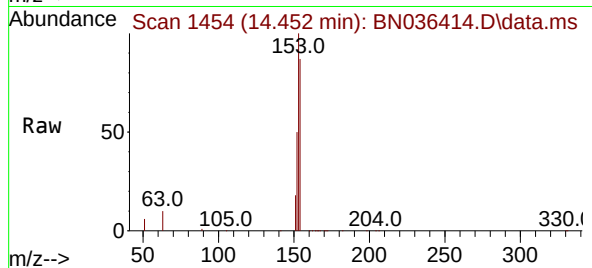




#17
Acenaphthene
Concen: 3.214 ng
RT: 14.452 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

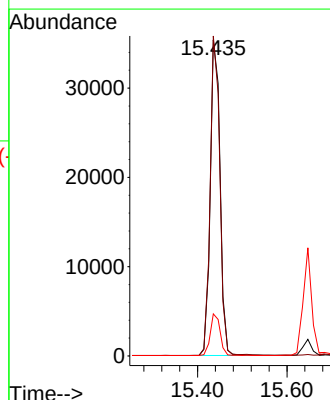
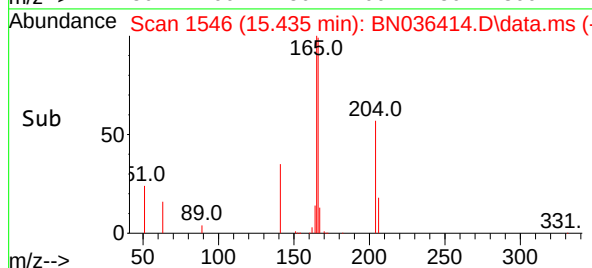
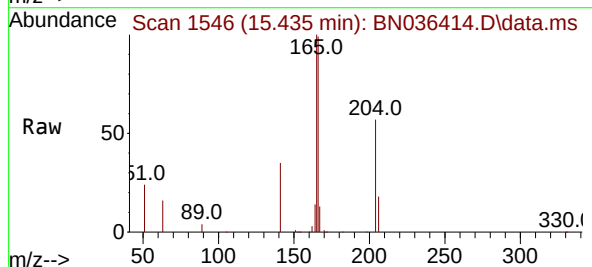
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

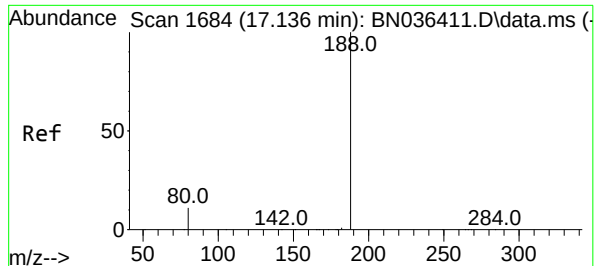
Tgt Ion:154 Resp: 39414
Ion Ratio Lower Upper
154 100
153 115.0 93.3 139.9
152 57.9 48.8 73.2



#18
Fluorene
Concen: 3.589 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:166 Resp: 56634
Ion Ratio Lower Upper
166 100
165 99.4 79.5 119.3
167 12.6 10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

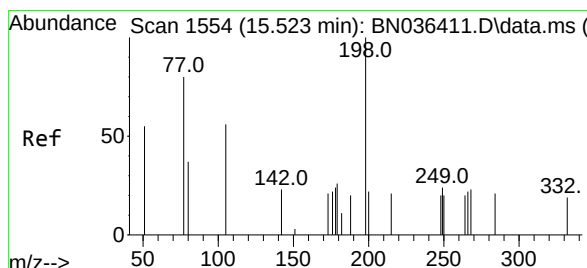
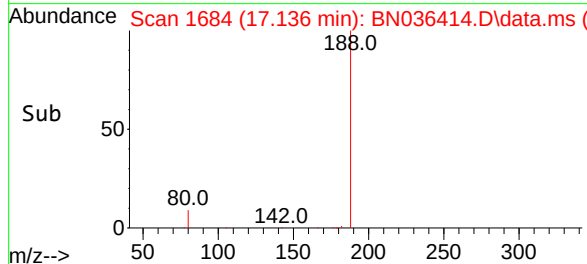
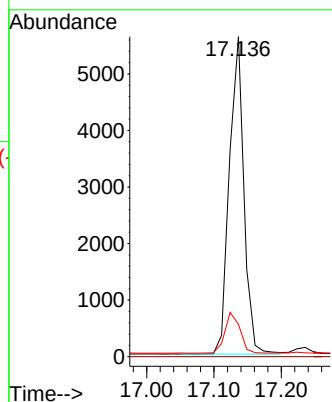
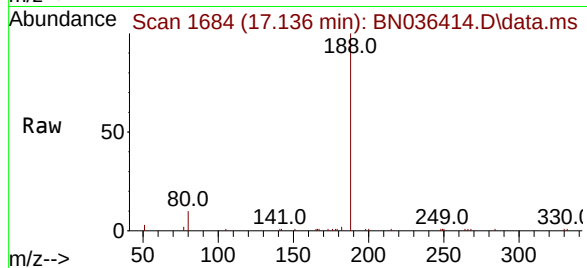
Tgt Ion:188 Resp: 8443

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.1 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 3.841 ng

RT: 15.510 min Scan# 1553

Delta R.T. -0.012 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

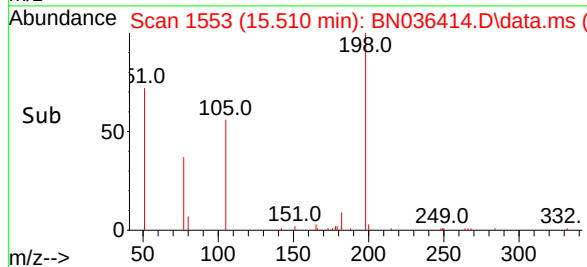
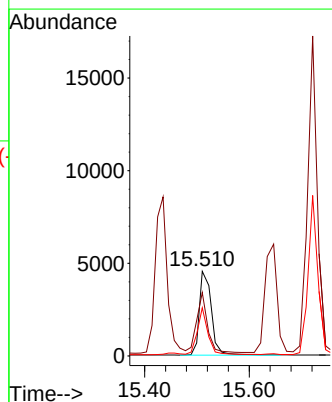
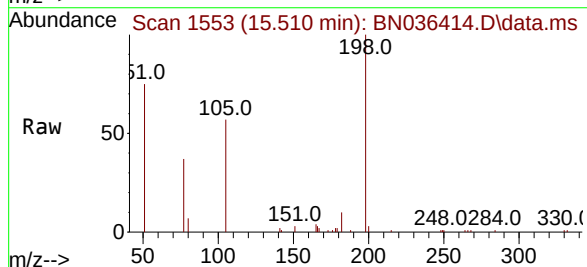
Tgt Ion:198 Resp: 7256

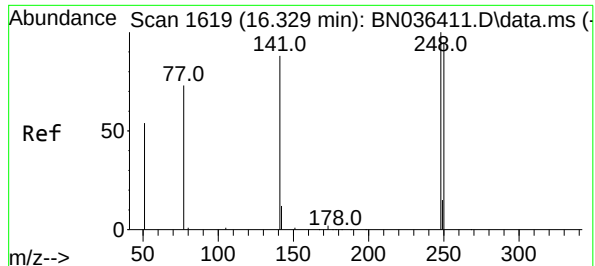
Ion Ratio Lower Upper

198 100

51 74.8 86.6 129.8#

105 57.0 57.5 86.3#

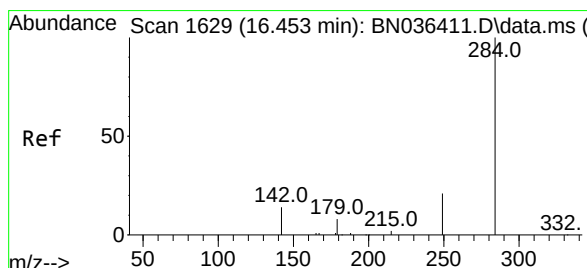
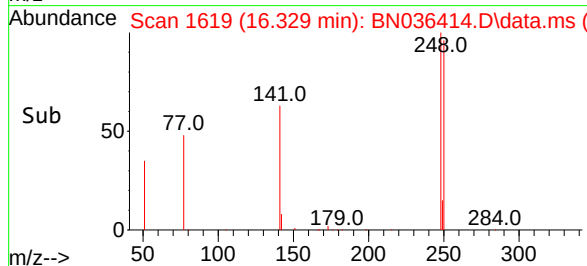
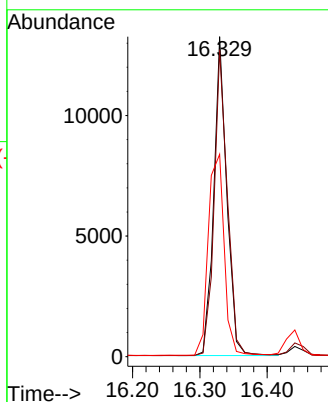
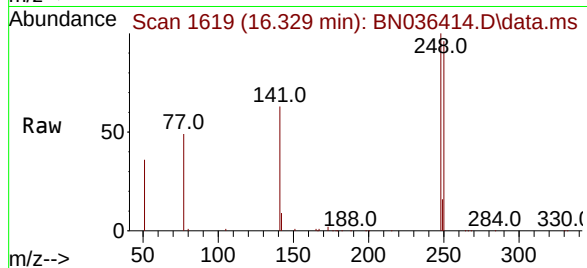




#21
4-Bromophenyl-phenylether
Concen: 3.081 ng
RT: 16.329 min Scan# 1619
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

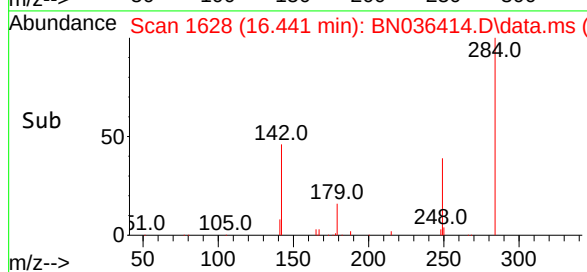
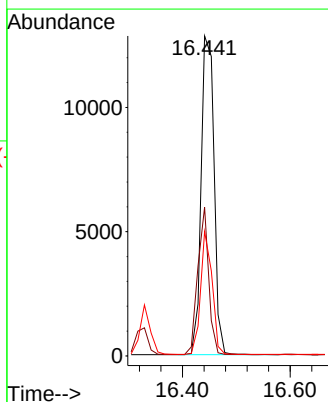
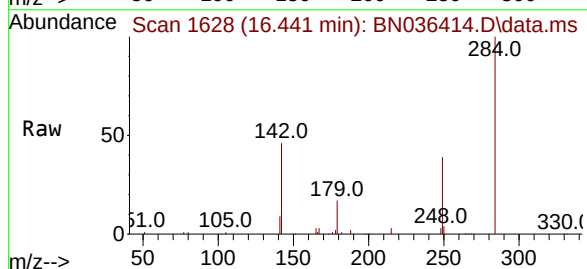
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

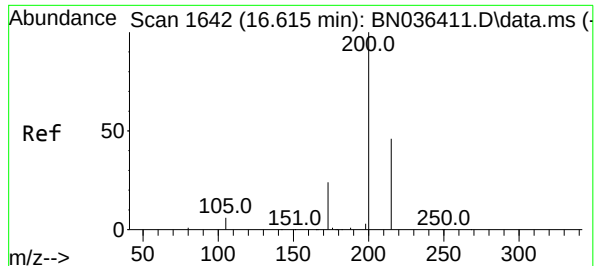
Tgt Ion:248 Resp: 17824
Ion Ratio Lower Upper
248 100
250 95.9 76.1 114.1
141 63.3 71.7 107.5#



#22
Hexachlorobenzene
Concen: 2.832 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:284 Resp: 21378
Ion Ratio Lower Upper
284 100
142 39.4 33.4 50.0
249 34.3 28.6 43.0

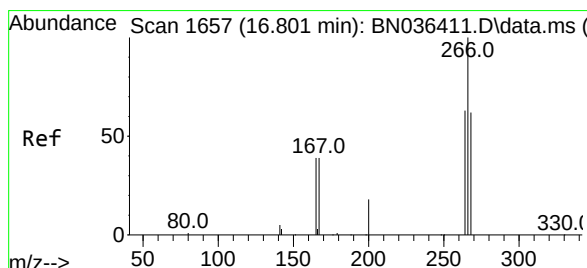
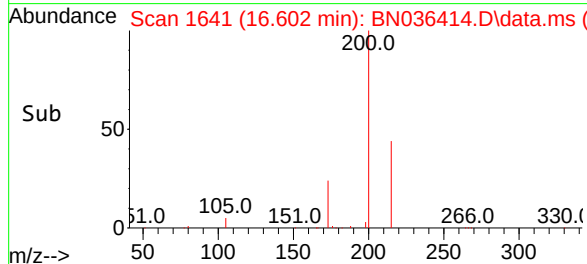
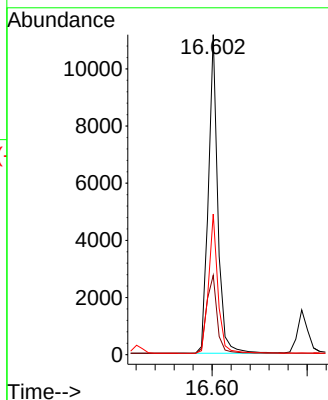
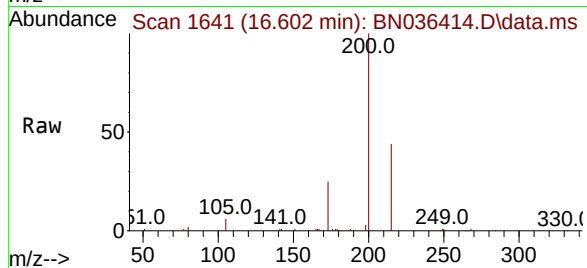




#23
Atrazine
Concen: 3.634 ng
RT: 16.602 min Scan# 1642
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

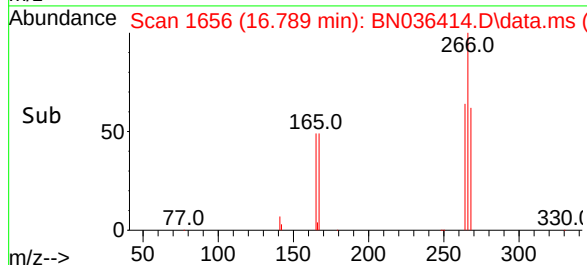
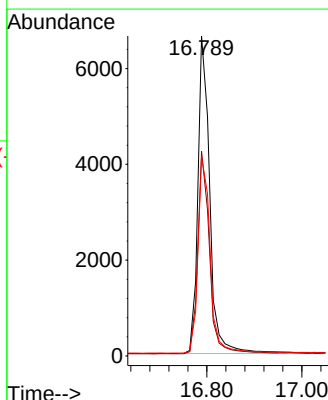
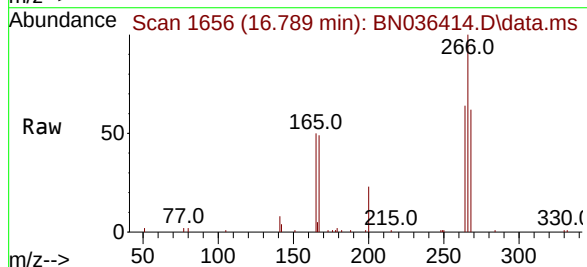
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

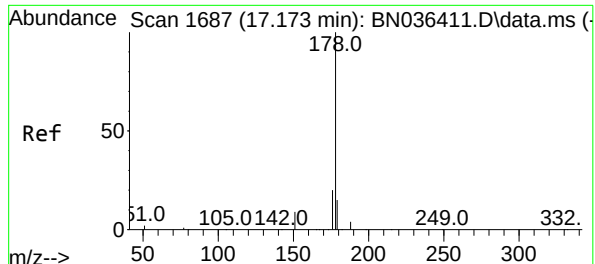
Tgt Ion	Ratio	Lower	Upper
200	100		
173	24.8	23.2	34.8
215	44.0	40.0	60.0



#24
Pentachlorophenol
Concen: 3.481 ng
RT: 16.789 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.3	50.6	76.0
268	64.3	51.9	77.9

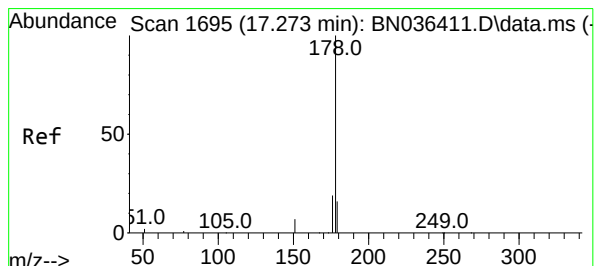
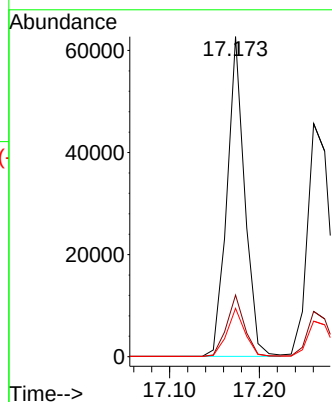
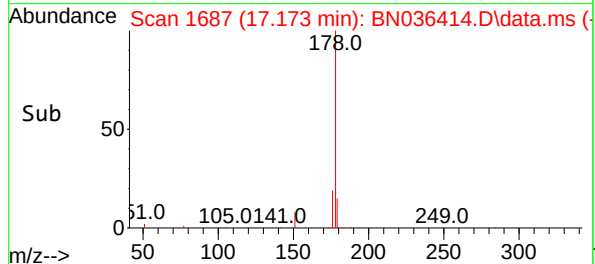
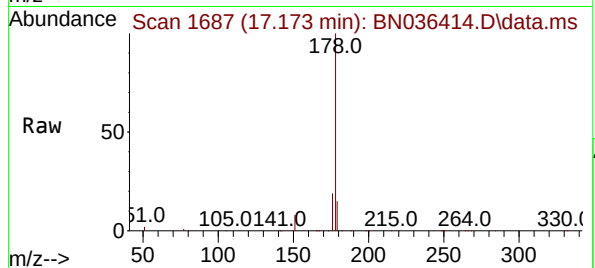




#25
Phenanthrene
Concen: 3.473 ng
RT: 17.173 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

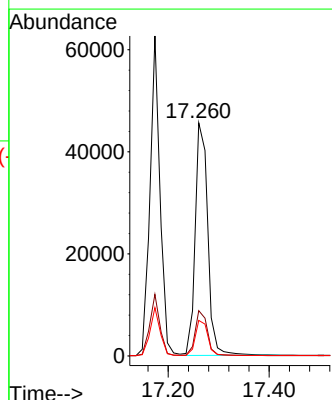
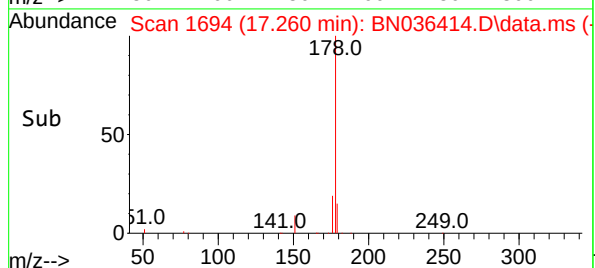
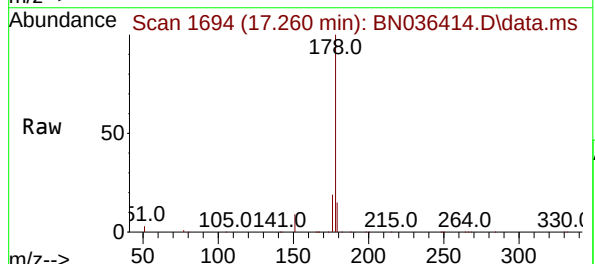
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

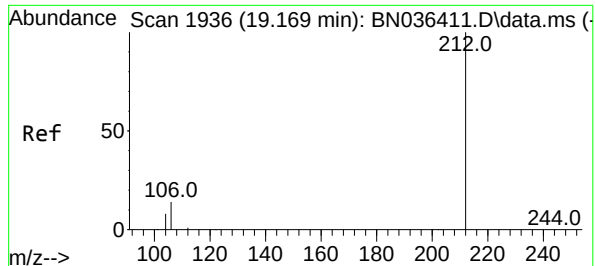
Tgt Ion:178 Resp: 85950
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 15.1 12.4 18.6



#26
Anthracene
Concen: 3.504 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:178 Resp: 78802
Ion Ratio Lower Upper
178 100
176 18.9 14.9 22.3
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 3.911 ng

RT: 19.169 min Scan# 1936

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

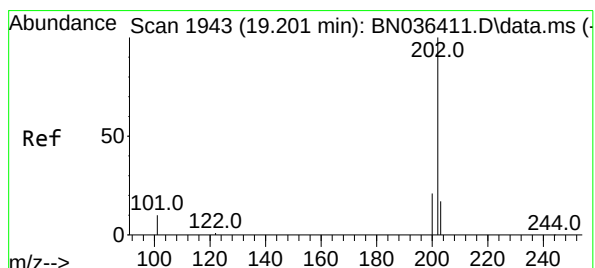
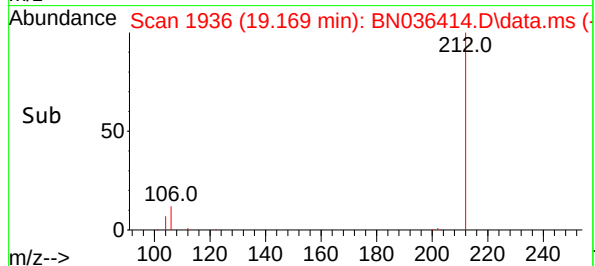
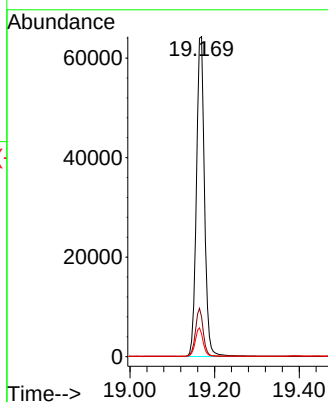
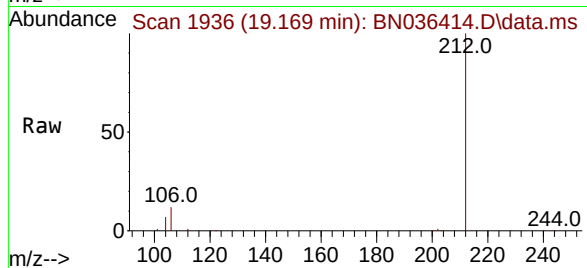
Tgt Ion:212 Resp: 84968

Ion Ratio Lower Upper

212 100

106 14.5 11.5 17.3

104 8.6 7.1 10.7



#28

Fluoranthene

Concen: 3.700 ng

RT: 19.197 min Scan# 1942

Delta R.T. -0.005 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

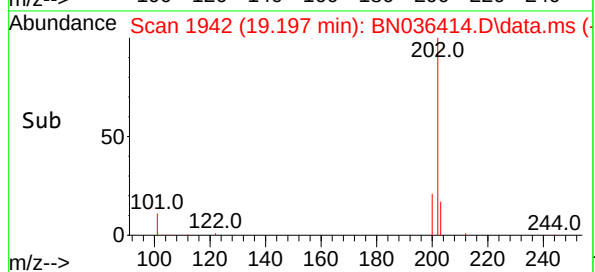
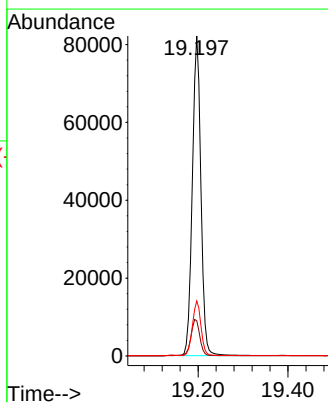
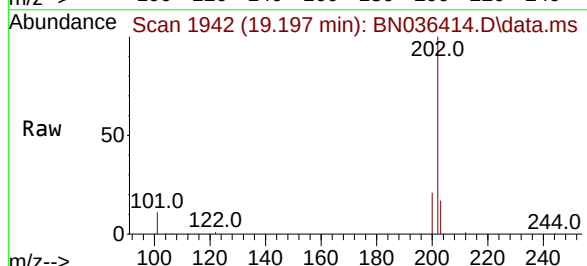
Tgt Ion:202 Resp: 108527

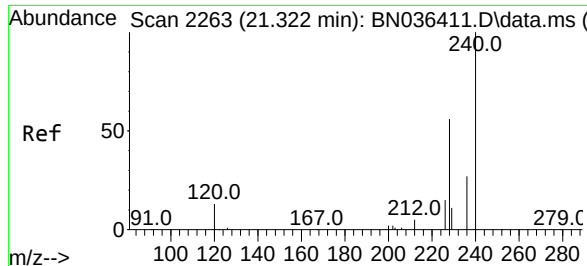
Ion Ratio Lower Upper

202 100

101 11.9 9.2 13.8

203 17.1 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

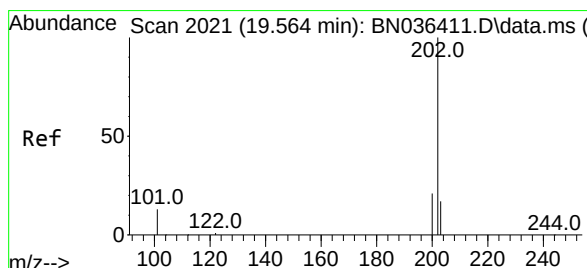
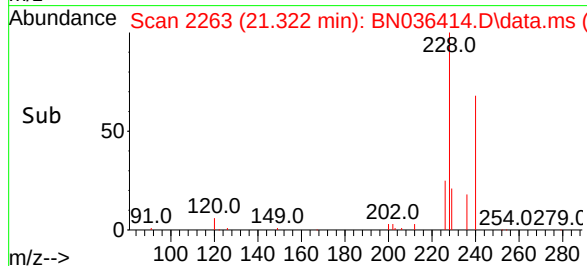
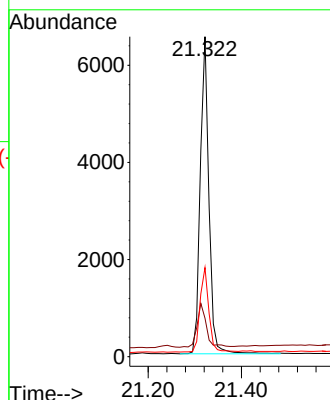
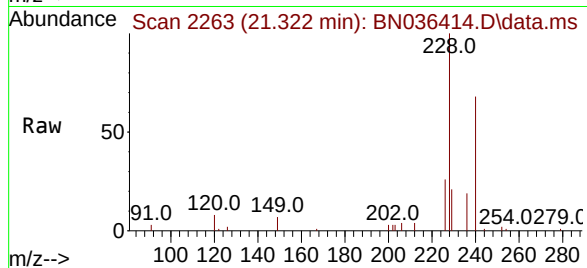
Tgt Ion:240 Resp: 8450

Ion Ratio Lower Upper

240 100

120 12.0 13.3 19.9#

236 27.8 23.0 34.6



#30

Pyrene

Concen: 3.262 ng

RT: 19.559 min Scan# 2020

Delta R.T. -0.005 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

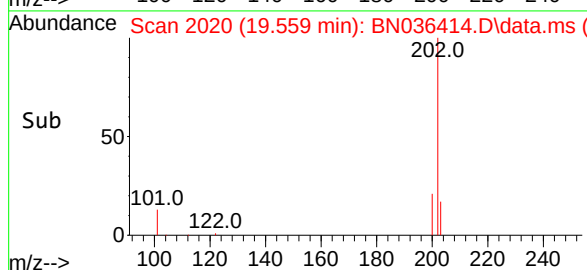
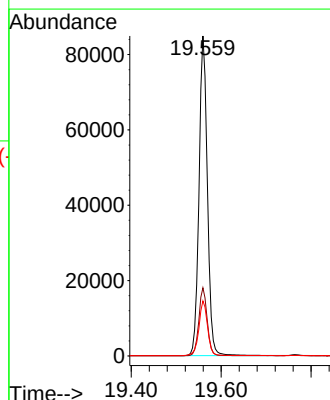
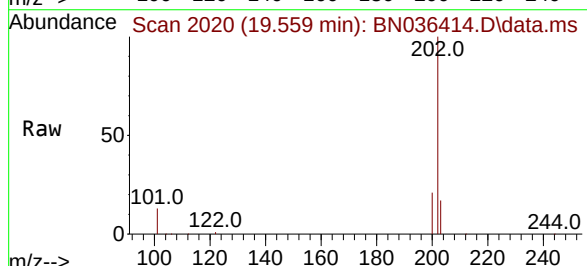
Tgt Ion:202 Resp: 110153

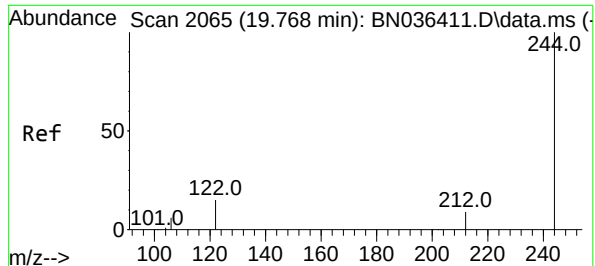
Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

203 17.7 13.9 20.9

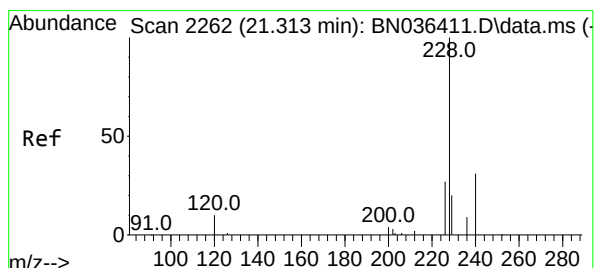
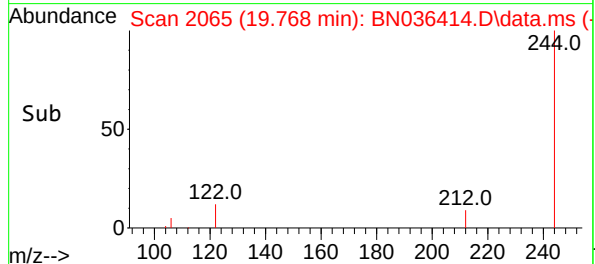
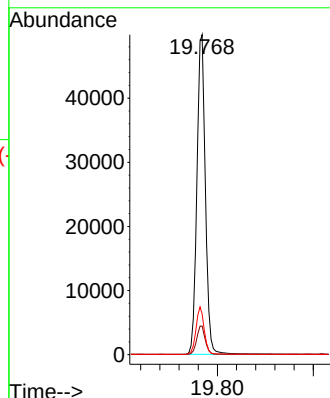
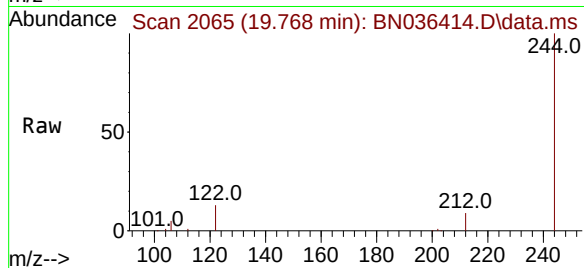




#31
Terphenyl-d14
Concen: 3.526 ng
RT: 19.768 min Scan# 2065
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

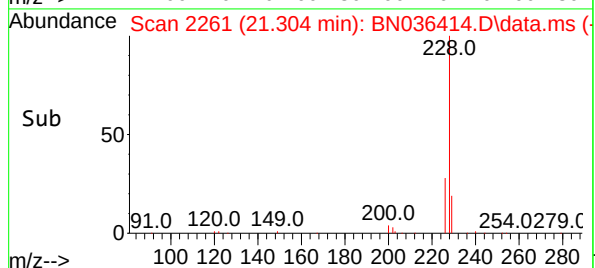
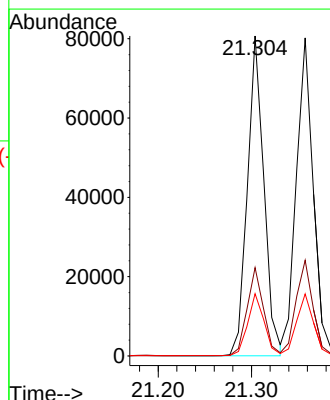
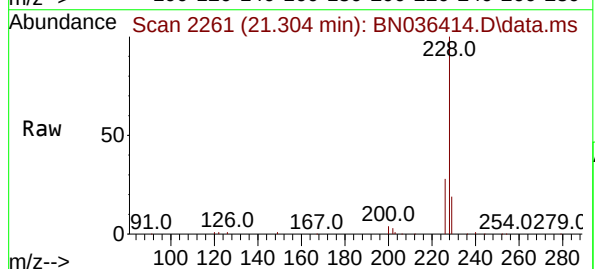
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

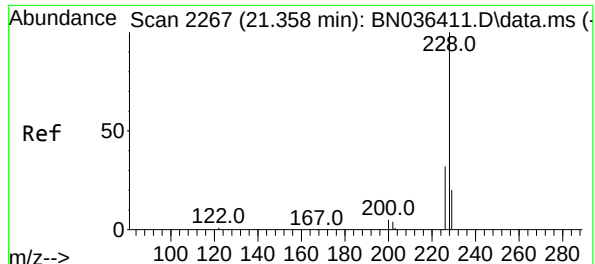
Tgt Ion:244 Resp: 61695
Ion Ratio Lower Upper
244 100
212 8.9 8.1 12.1
122 12.8 12.8 19.2#



#32
Benzo(a)anthracene
Concen: 3.312 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.009 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:228 Resp: 99445
Ion Ratio Lower Upper
228 100
226 27.6 22.2 33.2
229 19.5 16.5 24.7





#33

Chrysene

Concen: 3.354 ng

RT: 21.358 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

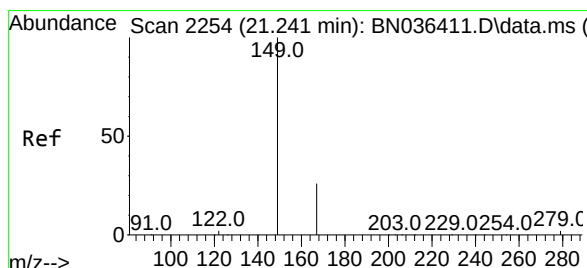
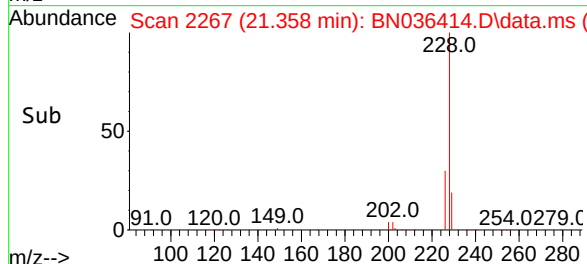
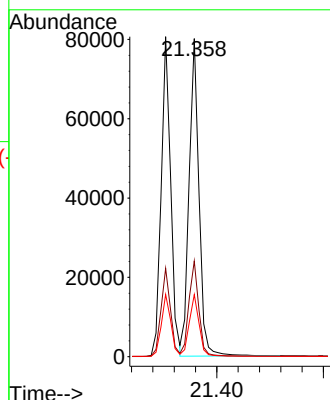
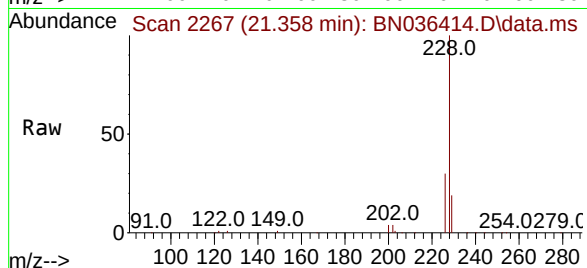
Tgt Ion:228 Resp: 103234

Ion Ratio Lower Upper

228 100

226 30.1 25.5 38.3

229 19.5 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.480 ng

RT: 21.241 min Scan# 2254

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

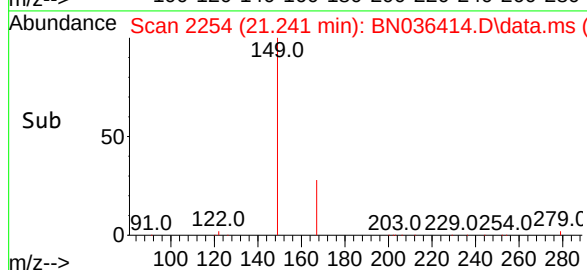
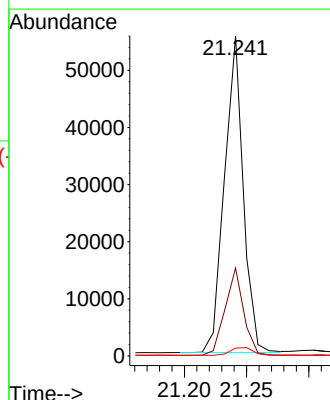
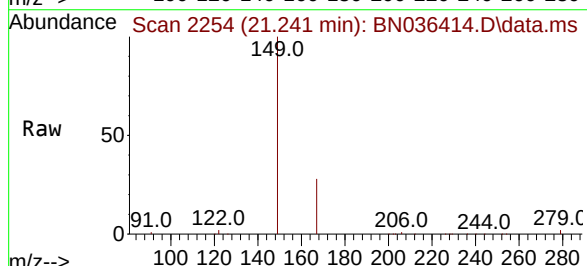
Tgt Ion:149 Resp: 58234

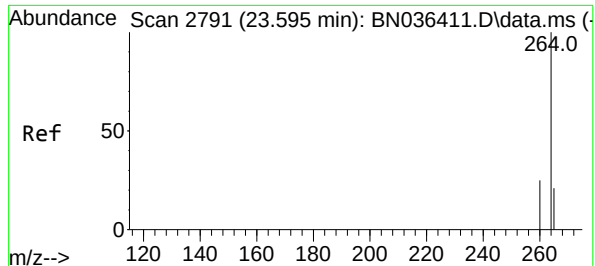
Ion Ratio Lower Upper

149 100

167 27.1 21.2 31.8

279 3.0 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.592 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

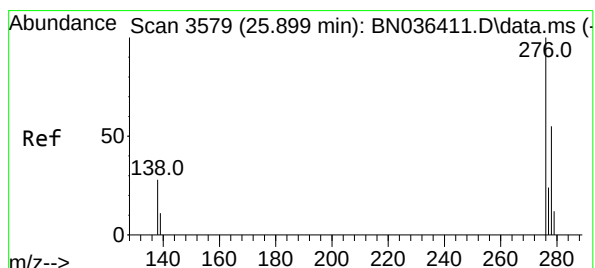
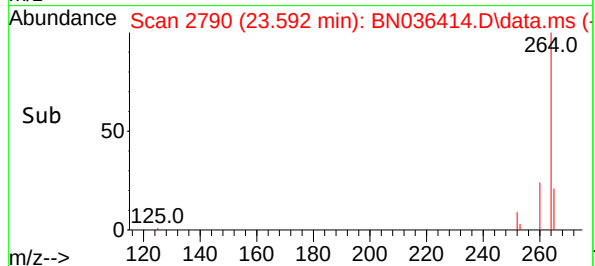
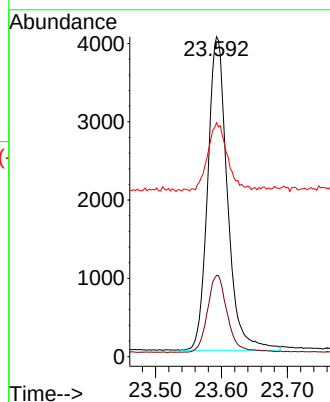
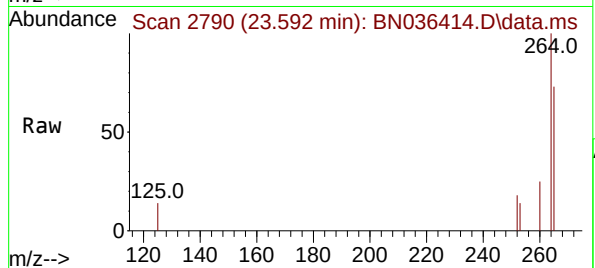
Tgt Ion:264 Resp: 8327

Ion Ratio Lower Upper

264 100

260 25.4 20.9 31.3

265 73.1 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.320 ng

RT: 25.890 min Scan# 3576

Delta R.T. -0.009 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

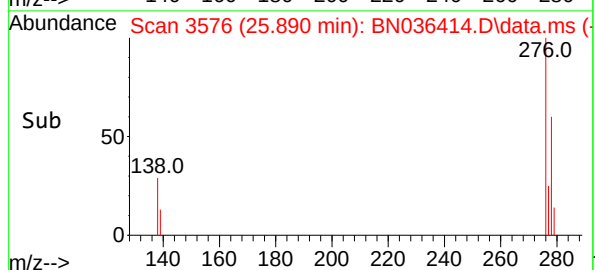
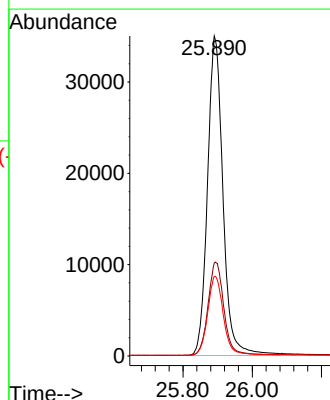
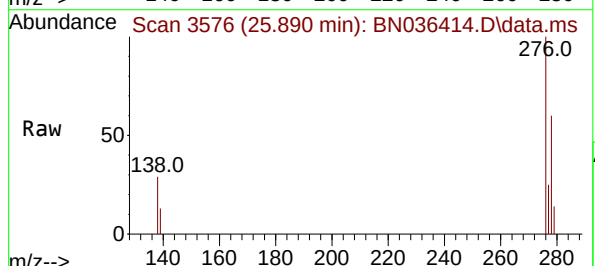
Tgt Ion:276 Resp: 108596

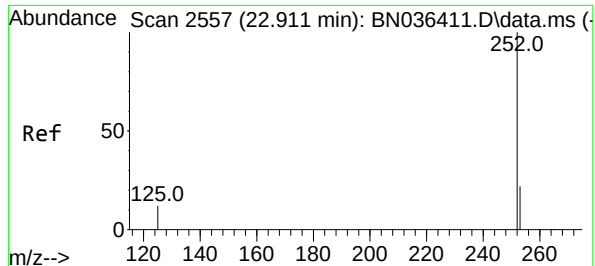
Ion Ratio Lower Upper

276 100

138 29.9 22.2 33.2

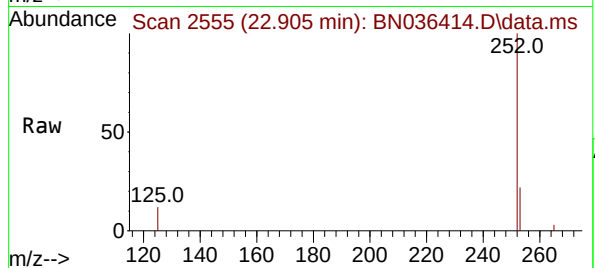
277 25.1 19.8 29.6



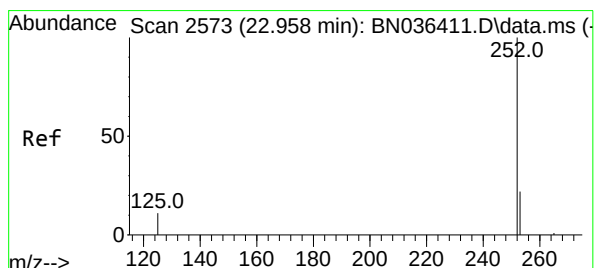
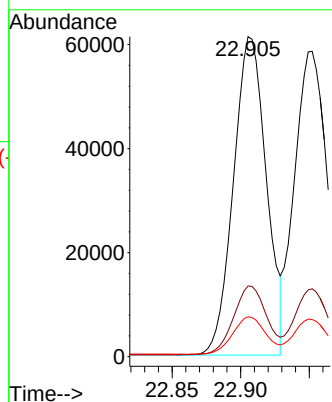


#37
Benzo(b)fluoranthene
Concen: 3.445 ng
RT: 22.905 min Scan# 2555
Delta R.T. -0.006 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

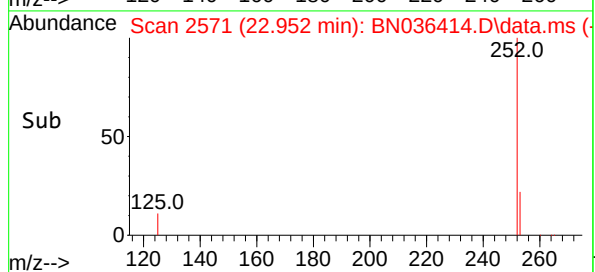
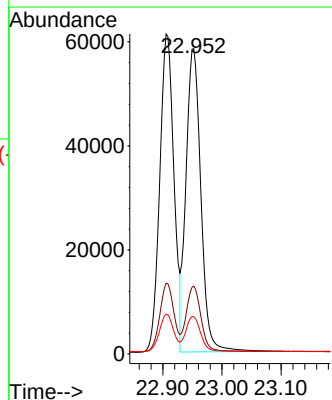
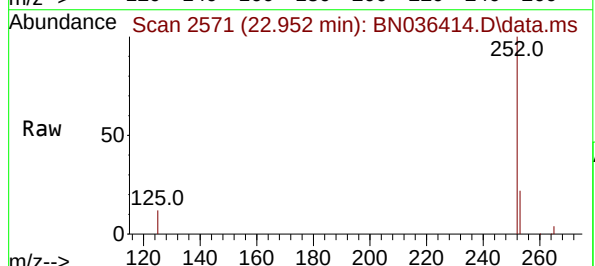


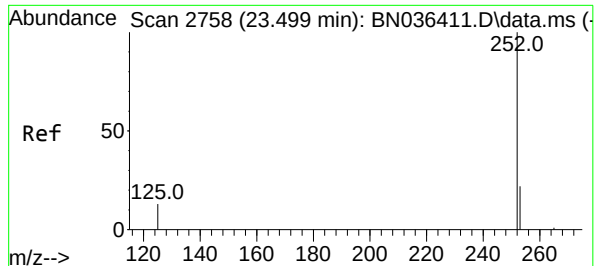
Tgt Ion:252 Resp: 101833
Ion Ratio Lower Upper
252 100
253 22.1 21.9 32.9
125 12.5 15.0 22.6#



#38
Benzo(k)fluoranthene
Concen: 3.385 ng
RT: 22.952 min Scan# 2571
Delta R.T. -0.006 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:252 Resp: 102040
Ion Ratio Lower Upper
252 100
253 22.2 22.2 33.4#
125 12.2 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 3.437 ng

RT: 23.490 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036414.D

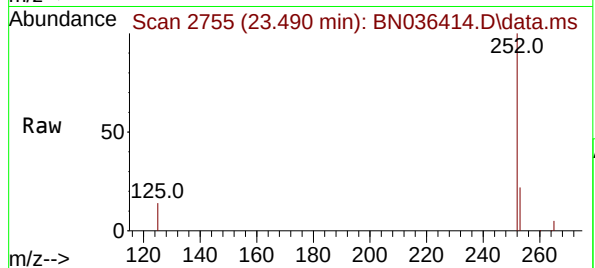
Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



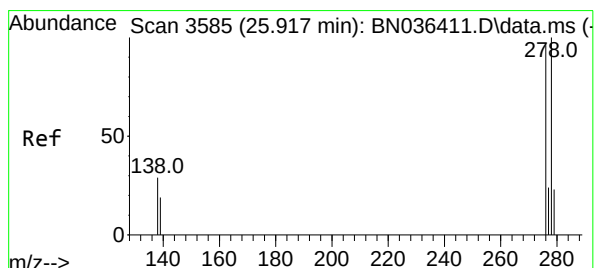
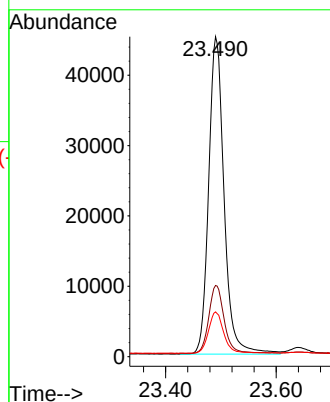
Tgt Ion:252 Resp: 87191

Ion Ratio Lower Upper

252 100

253 22.2 24.4 36.6#

125 14.0 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 3.343 ng

RT: 25.905 min Scan# 3581

Delta R.T. -0.012 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

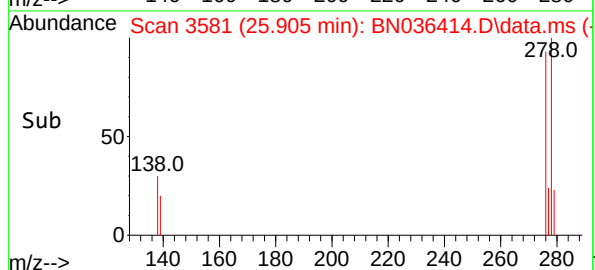
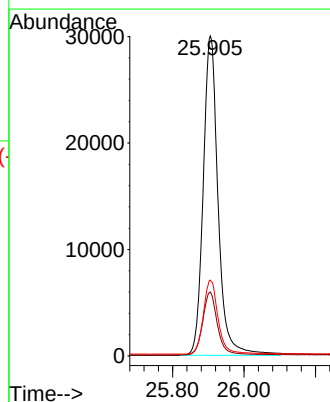
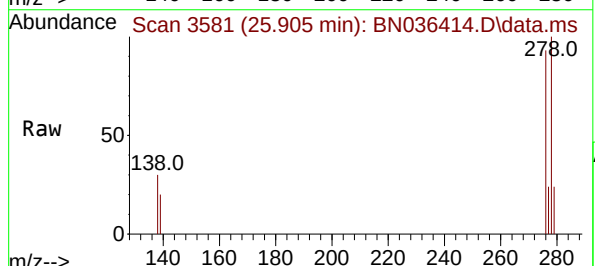
Tgt Ion:278 Resp: 86887

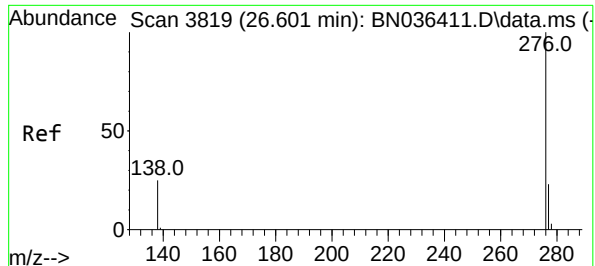
Ion Ratio Lower Upper

278 100

139 20.0 18.5 27.7

279 23.7 24.8 37.2#





#41

Benzo(g,h,i)perylene

Concen: 3.269 ng

RT: 26.592 min Scan# 3816

Delta R.T. -0.009 min

Lab File: BN036414.D

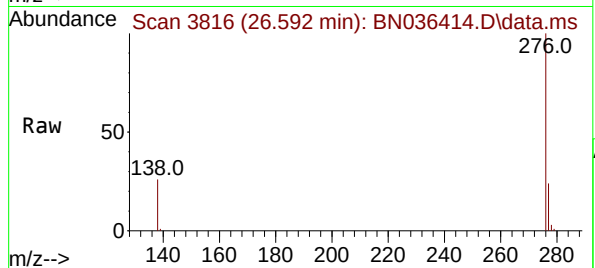
Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



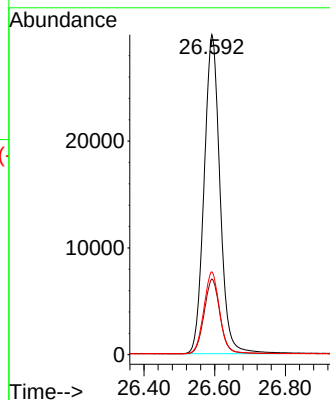
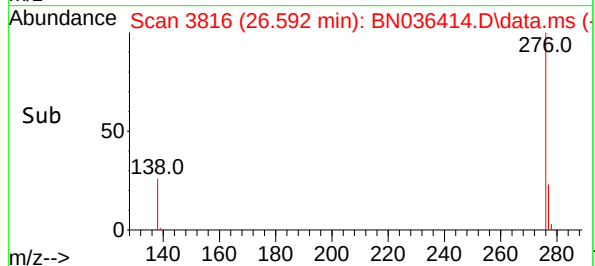
Tgt Ion:276 Resp: 93260

Ion Ratio Lower Upper

276 100

277 23.7 20.7 31.1

138 25.9 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036415.D
 Acq On : 10 Feb 2025 16:00
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Feb 11 00:37:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

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

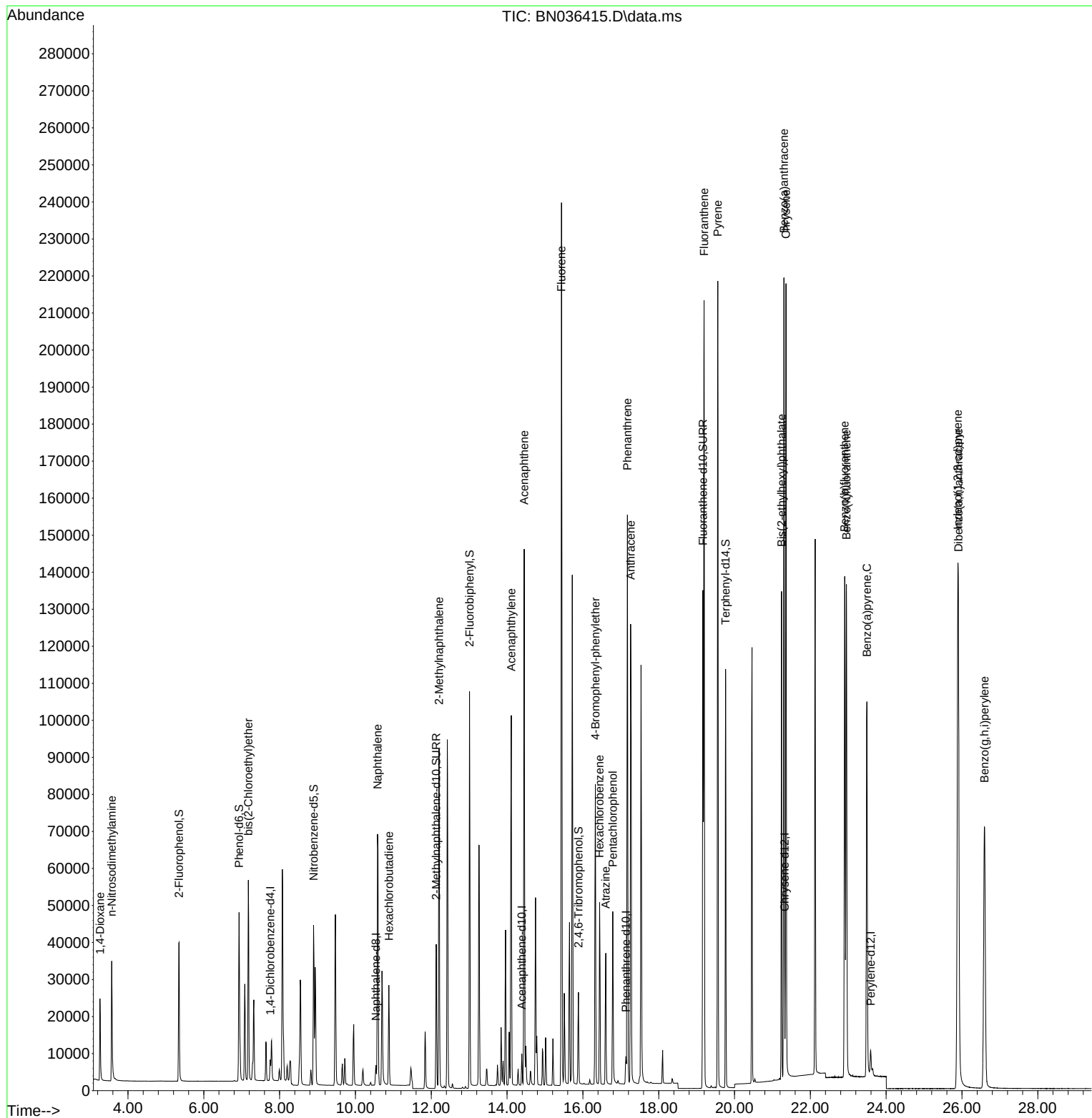
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2586	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	6761	0.400	ng	# 0.00
13) Acenaphthene-d10	14.388	164	4542	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	9953	0.400	ng	# 0.00
29) Chrysene-d12	21.322	240	9960	0.400	ng	# 0.00
35) Perylene-d12	23.592	264	9411	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	28619	4.348	ng	0.00
5) Phenol-d6	6.930	99	37616	4.898	ng	0.00
8) Nitrobenzene-d5	8.897	82	32241	5.118	ng	-0.01
11) 2-Methylnaphthalene-d10	12.131	152	52187	5.642	ng	-0.01
14) 2,4,6-Tribromophenol	15.883	330	12444	4.447	ng	0.00
15) 2-Fluorobiphenyl	13.009	172	88478	4.567	ng	-0.01
27) Fluoranthene-d10	19.164	212	143795	5.615	ng	0.00
31) Terphenyl-d14	19.764	244	104936	5.088	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.261	88	12303	4.303	ng	97
3) n-Nitrosodimethylamine	3.572	42	21660	4.216	ng	# 99
6) bis(2-Chloroethyl)ether	7.176	93	35791	5.604	ng	99
9) Naphthalene	10.584	128	90689	4.696	ng	97
10) Hexachlorobutadiene	10.883	225	21383	3.534	ng	# 100
12) 2-Methylnaphthalene	12.207	142	63405	5.226	ng	97
16) Acenaphthylene	14.110	152	103358	4.917	ng	99
17) Acenaphthene	14.452	154	66375	4.612	ng	97
18) Fluorene	15.435	166	93442	5.045	ng	96
21) 4-Bromophenyl-phenylether	16.329	248	29550	4.334	ng	# 86
22) Hexachlorobenzene	16.441	284	35446	3.983	ng	97
23) Atrazine	16.602	200	26508	5.288	ng	92
24) Pentachlorophenol	16.789	266	20784	5.340	ng	99
25) Phenanthrene	17.173	178	143424	4.916	ng	100
26) Anthracene	17.260	178	135332	5.105	ng	100
28) Fluoranthene	19.197	202	181794	5.257	ng	99
30) Pyrene	19.559	202	185711	4.666	ng	100
32) Benzo(a)anthracene	21.304	228	169514	4.790	ng	99
33) Chrysene	21.358	228	170028	4.687	ng	97
34) Bis(2-ethylhexyl)phtha...	21.241	149	101929	5.168	ng	99
36) Indeno(1,2,3-cd)pyrene	25.890	276	172989	4.679	ng	97
37) Benzo(b)fluoranthene	22.905	252	166596	4.986	ng	# 88
38) Benzo(k)fluoranthene	22.952	252	166186	4.879	ng	# 88
39) Benzo(a)pyrene	23.490	252	141837	4.947	ng	# 83
40) Dibenzo(a,h)anthracene	25.905	278	138330	4.709	ng	# 89
41) Benzo(g,h,i)perylene	26.595	276	146932	4.557	ng	96

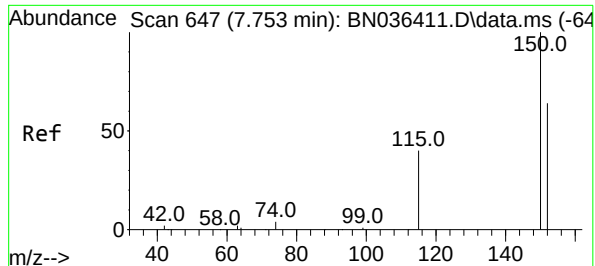
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036415.D
Acq On : 10 Feb 2025 16:00
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Feb 11 00:37:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

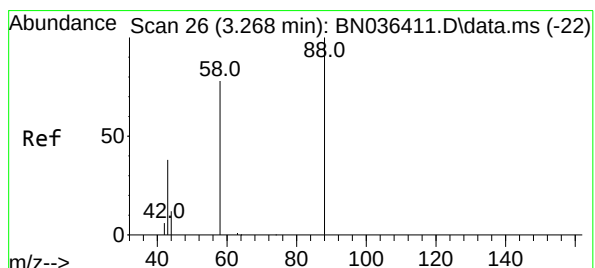
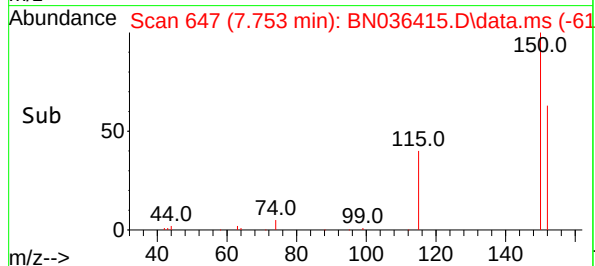
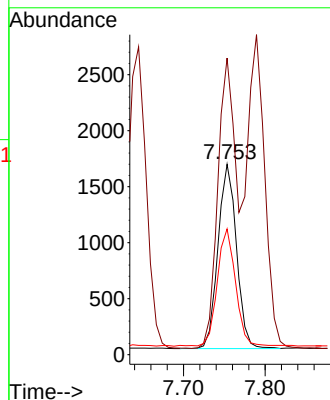
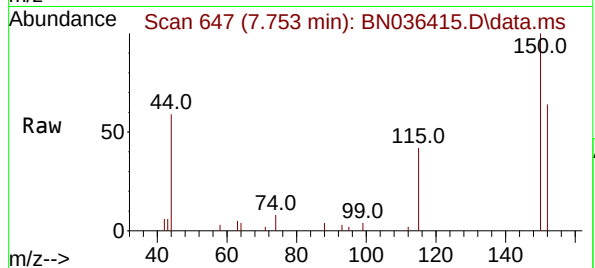




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

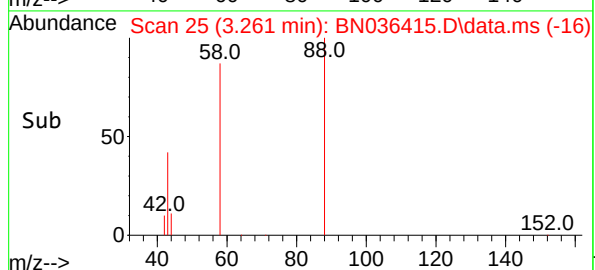
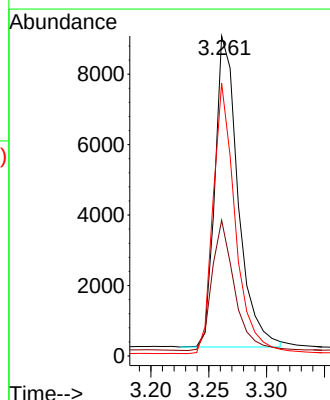
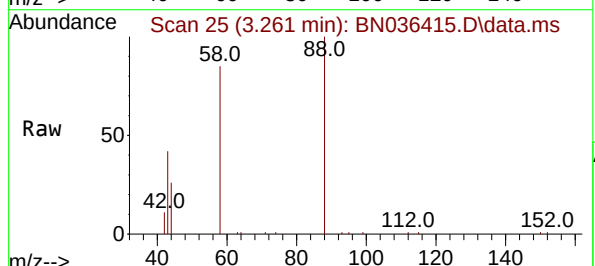
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

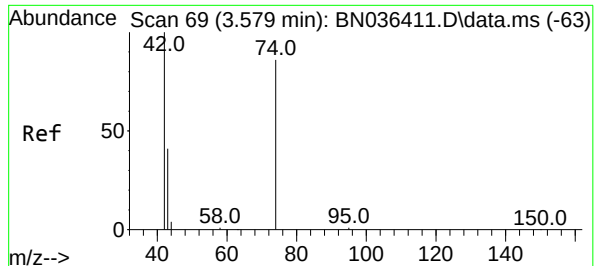
Tgt Ion:152 Resp: 2586
Ion Ratio Lower Upper
152 100
150 155.8 123.7 185.5
115 66.1 52.5 78.7



#2
1,4-Dioxane
Concen: 4.303 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion: 88 Resp: 12303
Ion Ratio Lower Upper
88 100
43 40.4 33.7 50.5
58 82.9 68.9 103.3

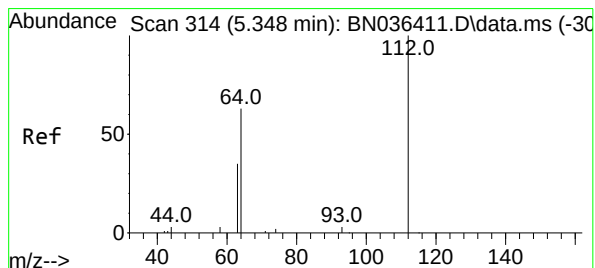
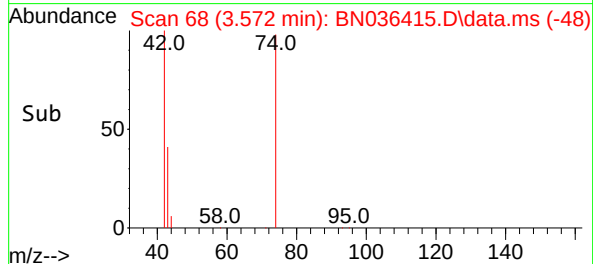
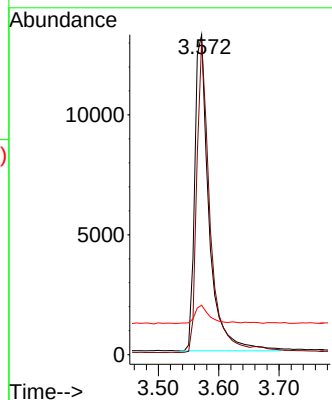
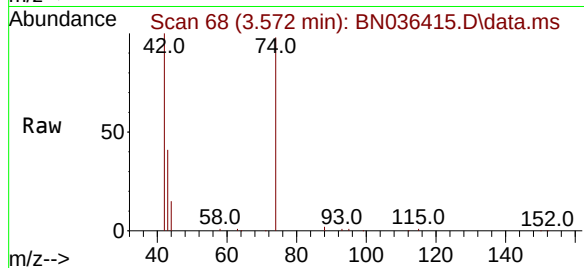




#3
n-Nitrosodimethylamine
Concen: 4.216 ng
RT: 3.572 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

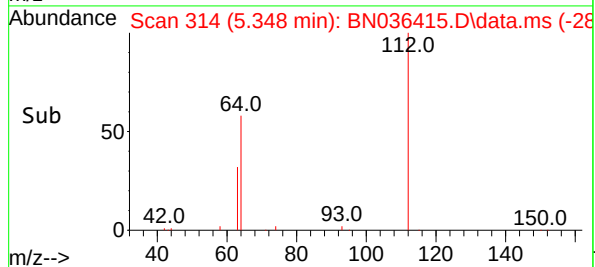
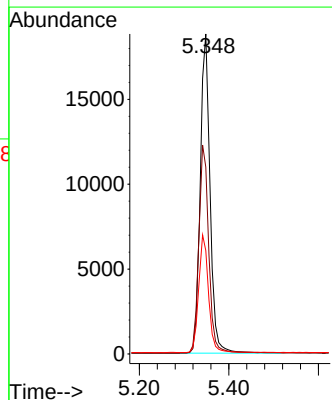
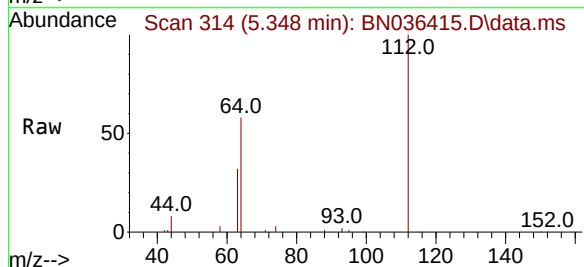
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

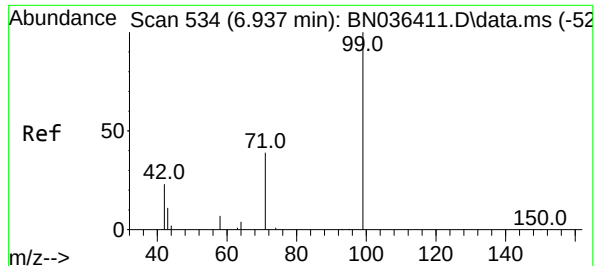
Tgt Ion: 42 Resp: 21660
Ion Ratio Lower Upper
42 100
74 89.7 71.8 107.6
44 5.6 7.8 11.6#



#4
2-Fluorophenol
Concen: 4.348 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion: 112 Resp: 28619
Ion Ratio Lower Upper
112 100
64 66.1 53.4 80.0
63 37.1 30.3 45.5

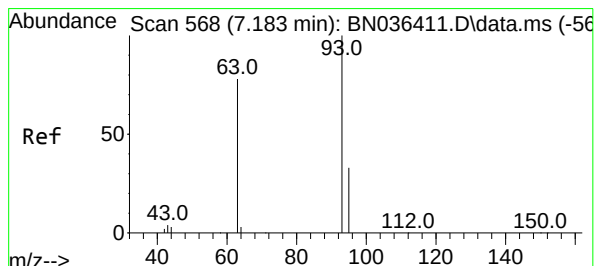
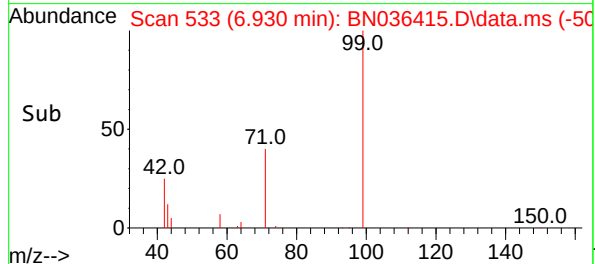
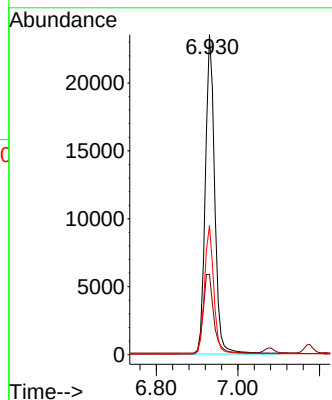
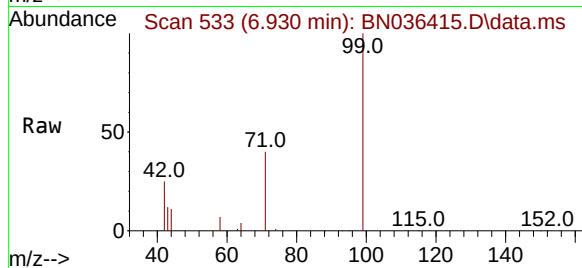




#5
Phenol-d6
Concen: 4.898 ng
RT: 6.930 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

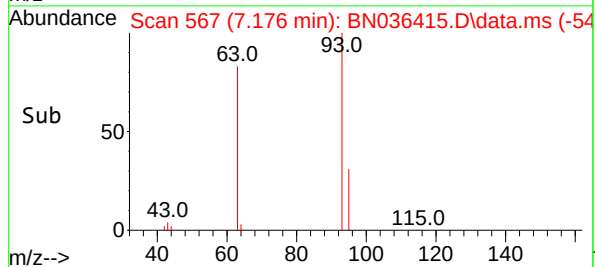
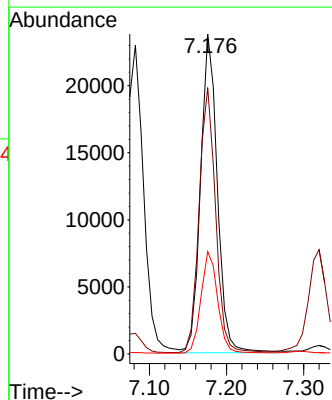
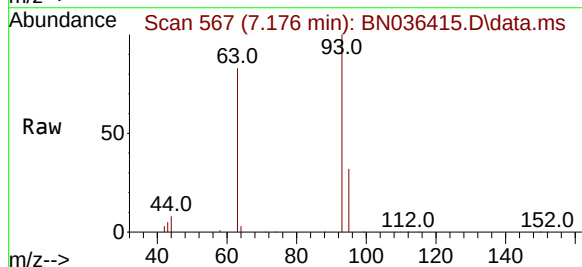
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

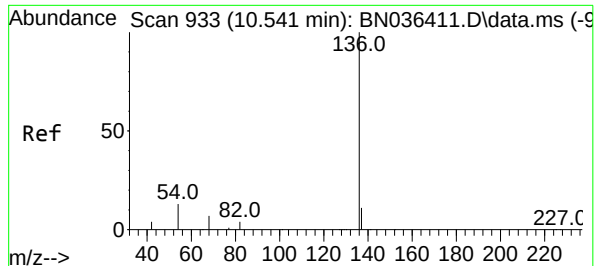
Tgt Ion: 99 Resp: 37616
Ion Ratio Lower Upper
99 100
42 27.6 21.7 32.5
71 40.0 32.6 49.0



#6
bis(2-Chloroethyl)ether
Concen: 5.604 ng
RT: 7.176 min Scan# 567
Delta R.T. -0.007 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion: 93 Resp: 35791
Ion Ratio Lower Upper
93 100
63 81.8 66.3 99.5
95 31.7 26.2 39.4

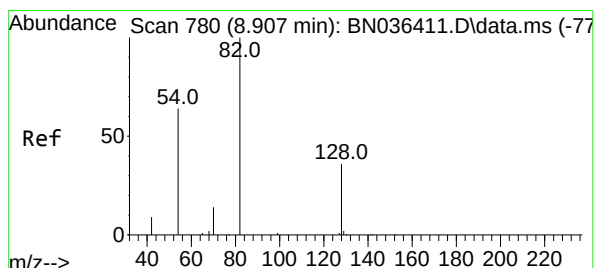
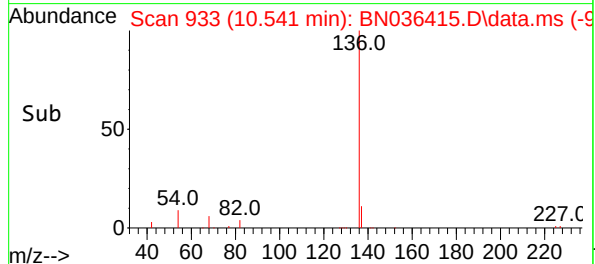
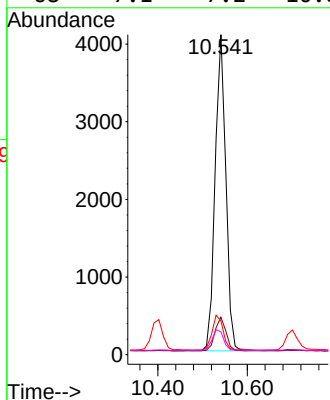
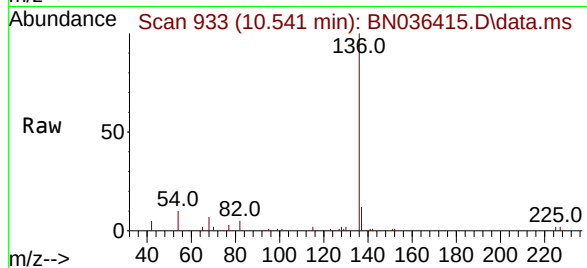




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

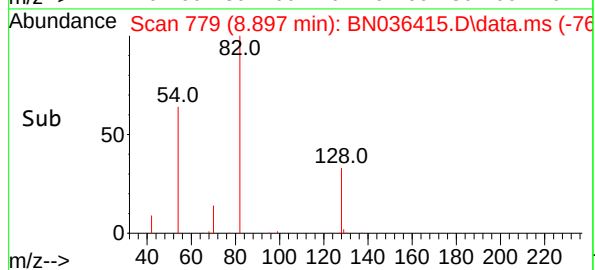
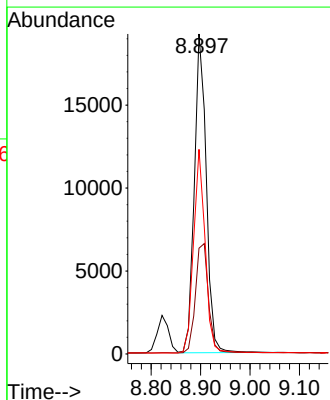
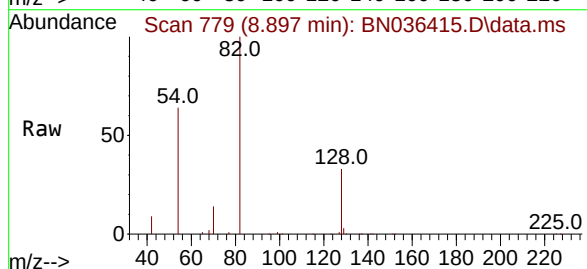
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

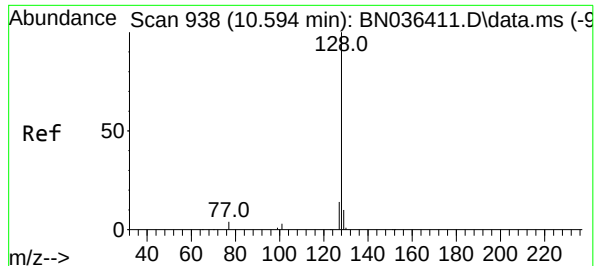
Tgt Ion:	136	Resp:	6761
Ion	Ratio	Lower	Upper
136	100		
137	11.7	10.1	15.1
54	10.5	11.8	17.6#
68	7.1	7.2	10.8#



#8
Nitrobenzene-d5
Concen: 5.118 ng
RT: 8.897 min Scan# 779
Delta R.T. -0.011 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:	82	Resp:	32241
Ion	Ratio	Lower	Upper
82	100		
128	33.1	31.9	47.9
54	64.0	53.1	79.7

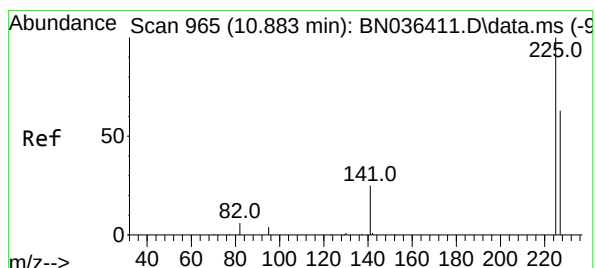
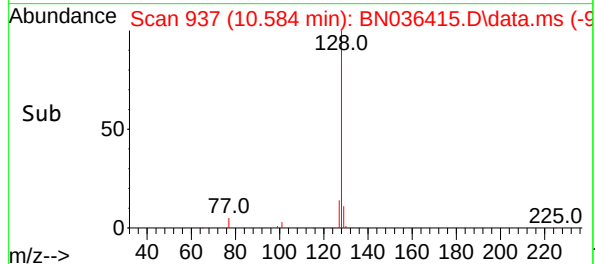
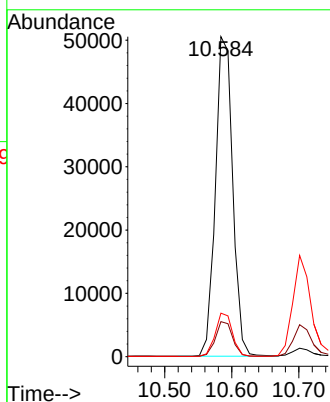
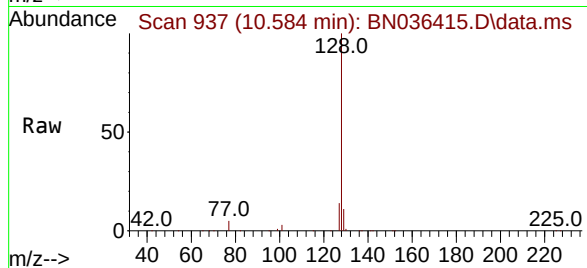




#9
Naphthalene
Concen: 4.696 ng
RT: 10.584 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

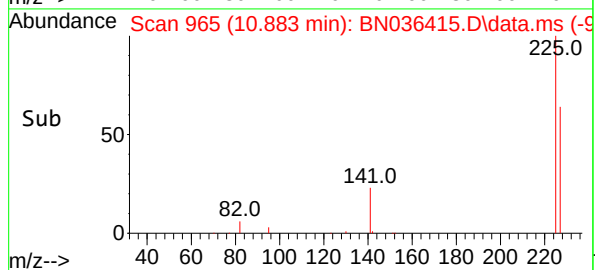
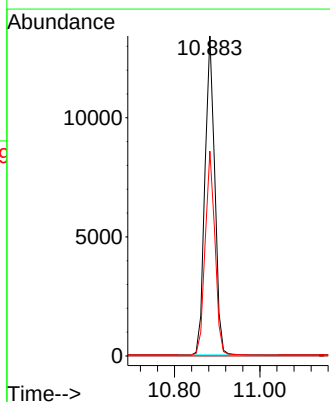
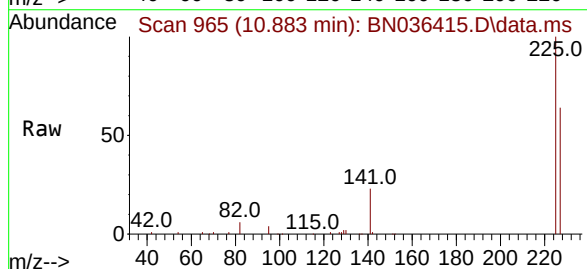
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

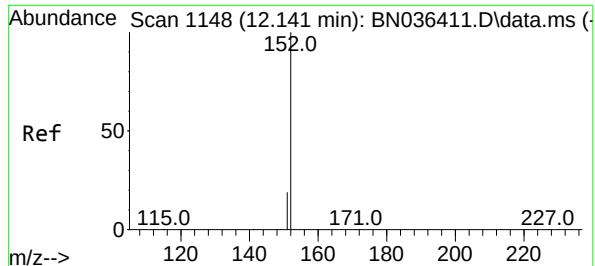
Tgt Ion:128 Resp: 90689
Ion Ratio Lower Upper
128 100
129 10.9 9.6 14.4
127 13.6 12.0 18.0



#10
Hexachlorobutadiene
Concen: 3.534 ng
RT: 10.883 min Scan# 965
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:225 Resp: 21383
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 50.9 76.3

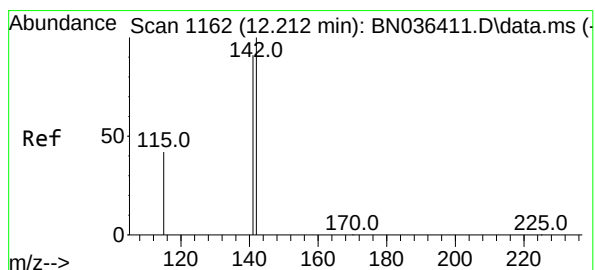
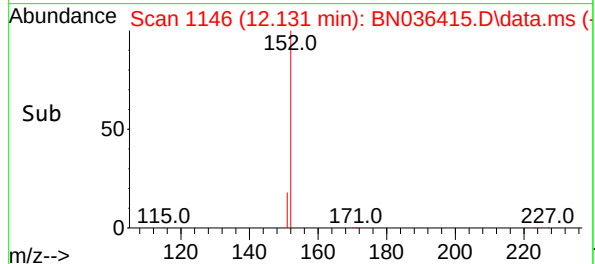
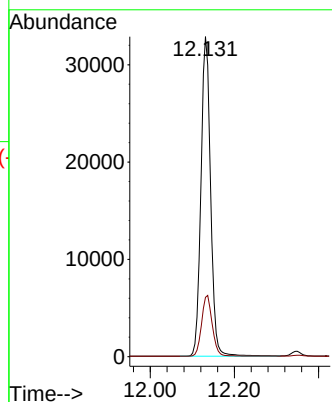
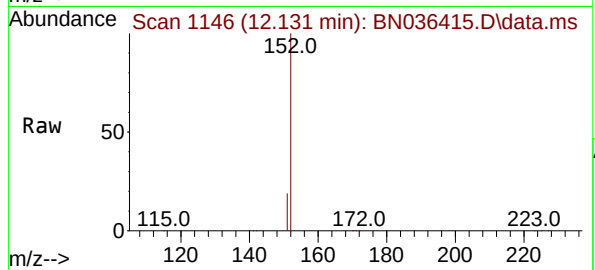




#11
2-Methylnaphthalene-d10
Concen: 5.642 ng
RT: 12.131 min Scan# 1146
Delta R.T. -0.010 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

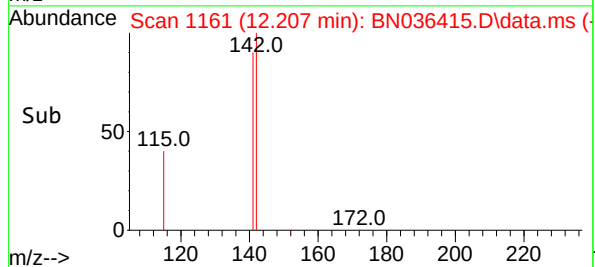
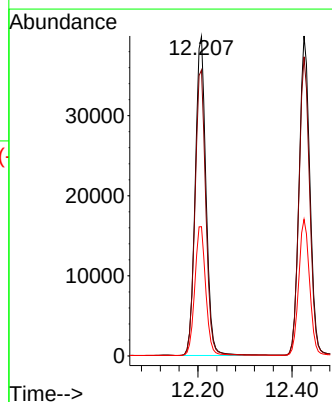
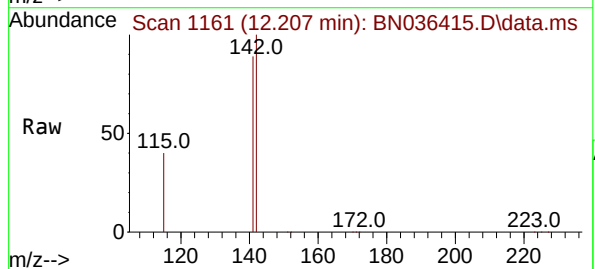
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

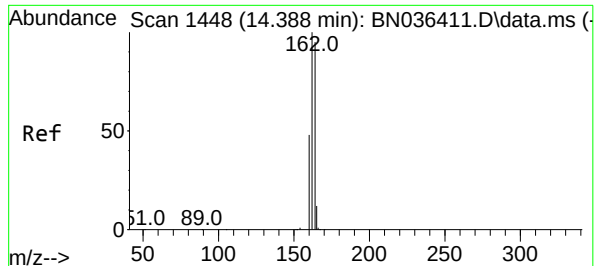
Tgt Ion:152 Resp: 52187
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0



#12
2-Methylnaphthalene
Concen: 5.226 ng
RT: 12.207 min Scan# 1161
Delta R.T. -0.005 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:142 Resp: 63405
Ion Ratio Lower Upper
142 100
141 89.5 72.8 109.2
115 40.5 35.5 53.3





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.388 min Scan# 1448

Delta R.T. 0.000 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

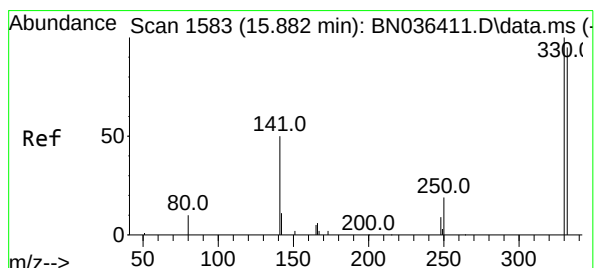
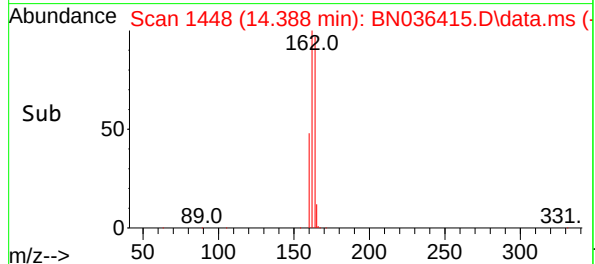
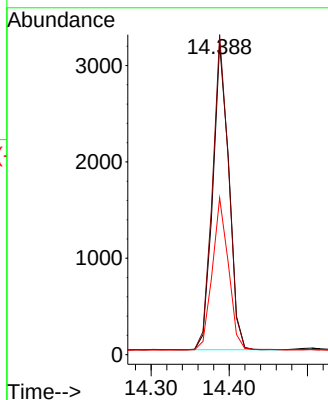
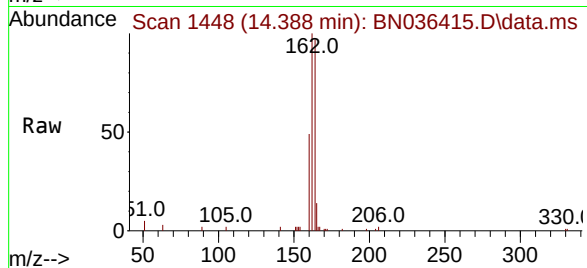
Tgt Ion:164 Resp: 4542

Ion Ratio Lower Upper

164 100

162 102.9 84.1 126.1

160 50.4 41.4 62.0



#14

2,4,6-Tribromophenol

Concen: 4.447 ng

RT: 15.883 min Scan# 1583

Delta R.T. 0.000 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

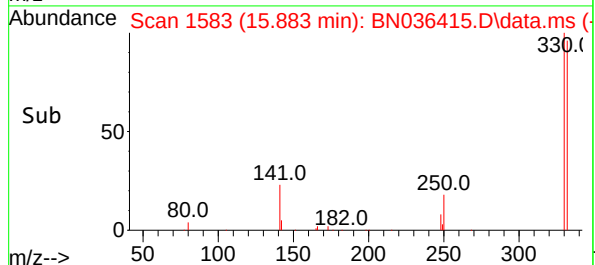
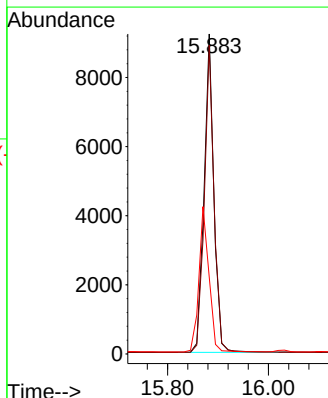
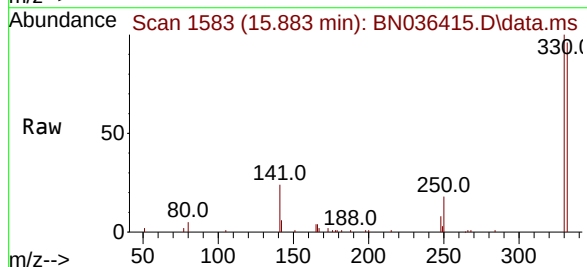
Tgt Ion:330 Resp: 12444

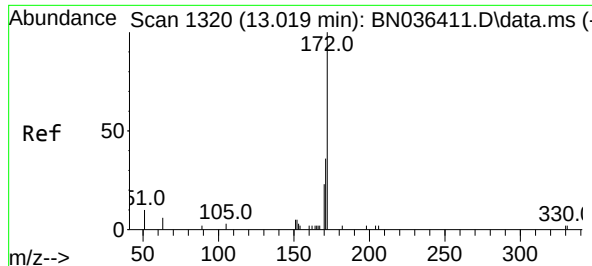
Ion Ratio Lower Upper

330 100

332 95.6 76.6 114.8

141 46.6 37.8 56.8

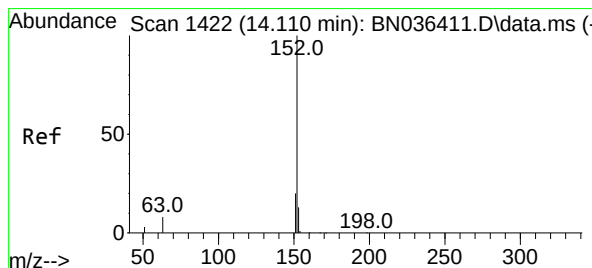
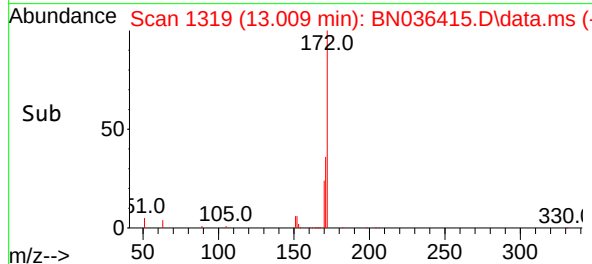
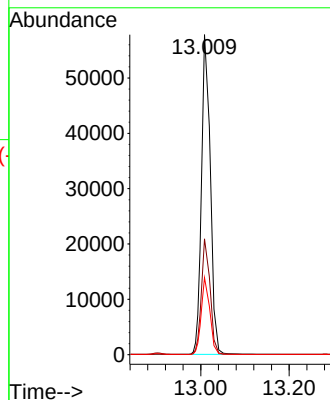
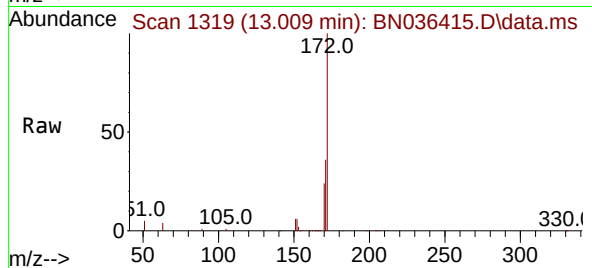




#15
2-Fluorobiphenyl
Concen: 4.567 ng
RT: 13.009 min Scan# 1319
Delta R.T. -0.011 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

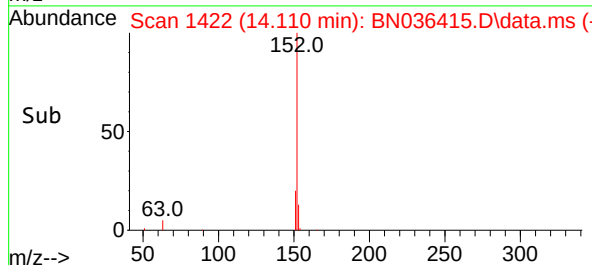
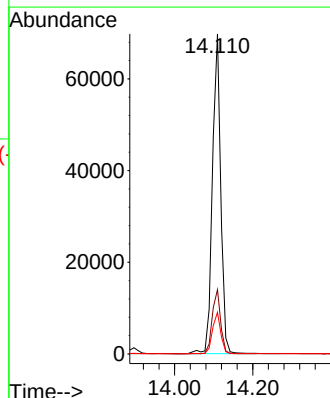
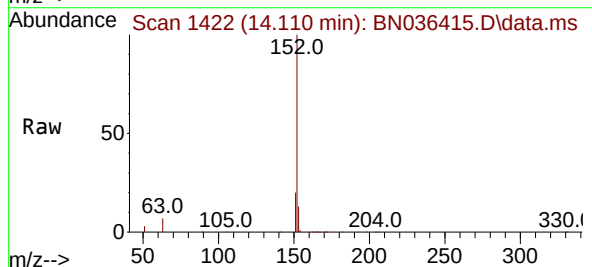
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

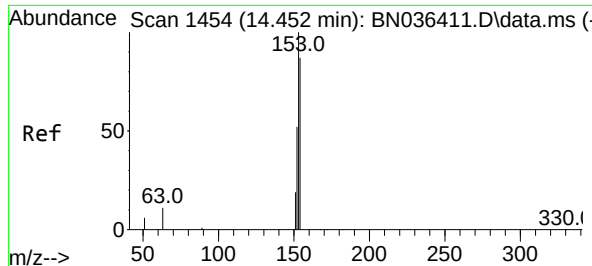
Tgt Ion:172 Resp: 88478
Ion Ratio Lower Upper
172 100
171 36.2 29.6 44.4
170 24.0 19.8 29.6



#16
Acenaphthylene
Concen: 4.917 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:152 Resp: 103358
Ion Ratio Lower Upper
152 100
151 20.1 15.8 23.8
153 12.9 10.2 15.2

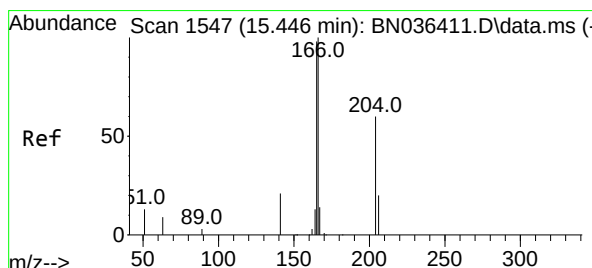
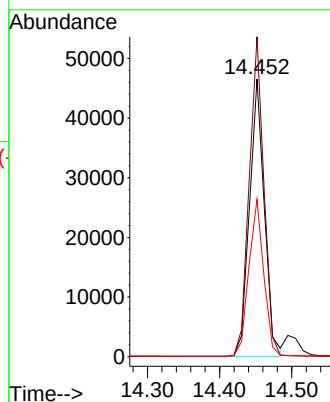
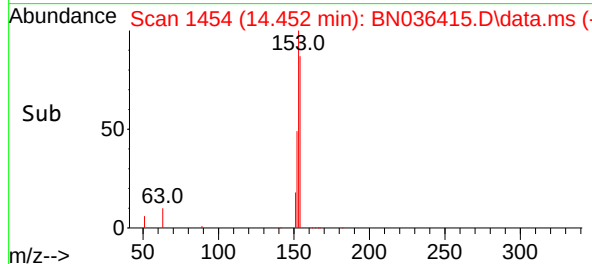
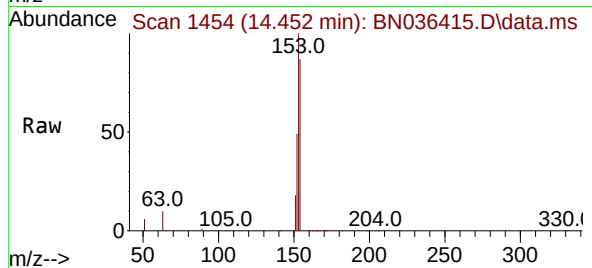




#17
Acenaphthene
Concen: 4.612 ng
RT: 14.452 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

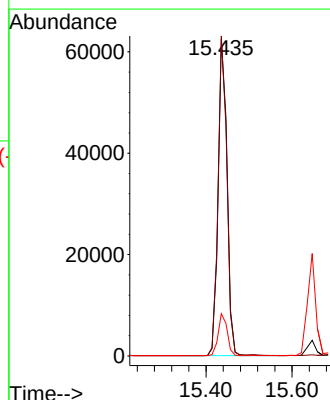
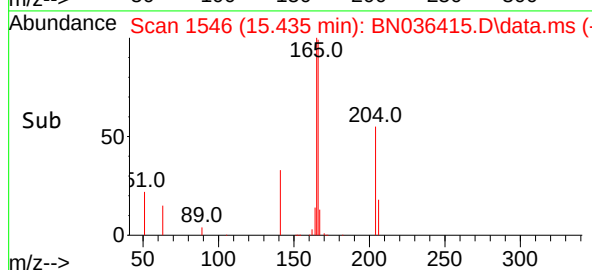
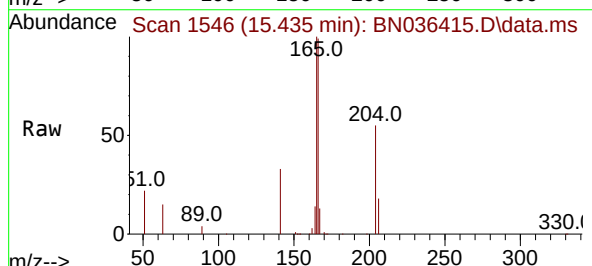
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

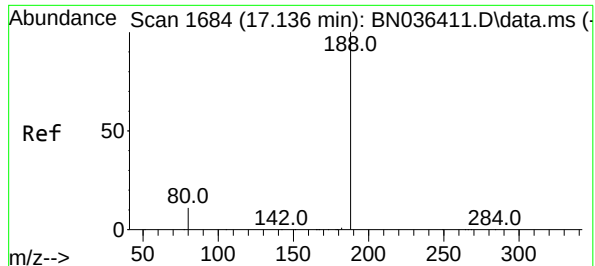
Tgt Ion:154 Resp: 66375
Ion Ratio Lower Upper
154 100
153 114.4 93.3 139.9
152 57.1 48.8 73.2



#18
Fluorene
Concen: 5.045 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:166 Resp: 93442
Ion Ratio Lower Upper
166 100
165 95.5 79.5 119.3
167 12.8 10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

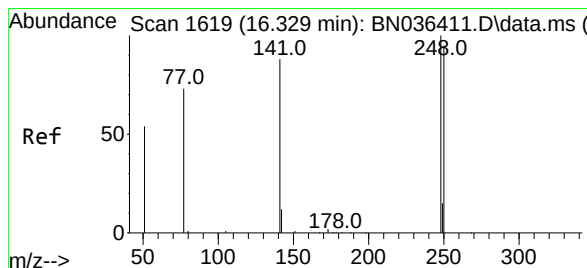
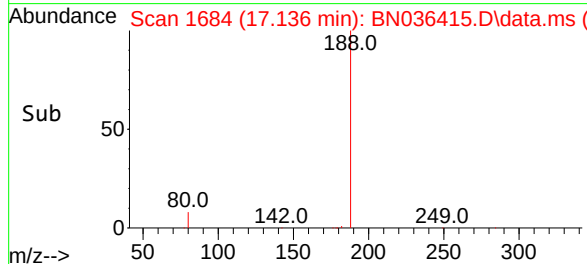
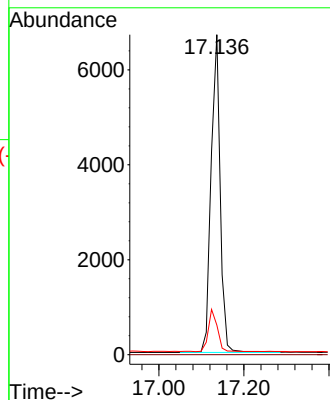
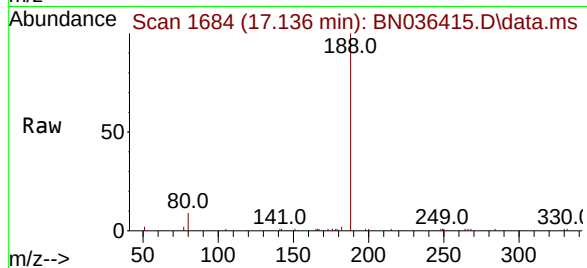
Tgt Ion:188 Resp: 9953

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.3 9.8 14.6#



#21

4-Bromophenyl-phenylether

Concen: 4.334 ng

RT: 16.329 min Scan# 1619

Delta R.T. 0.000 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

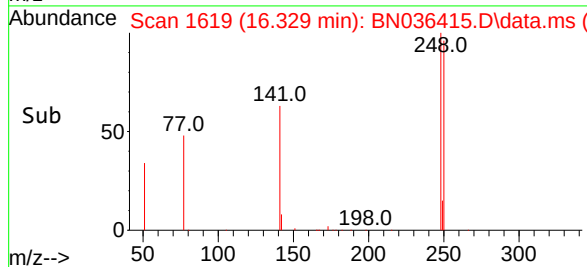
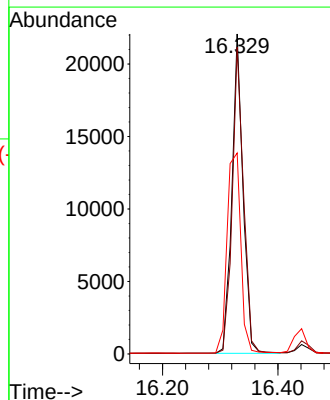
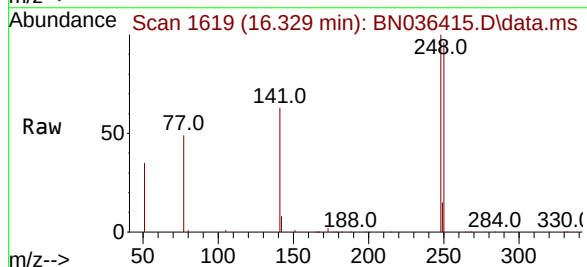
Tgt Ion:248 Resp: 29550

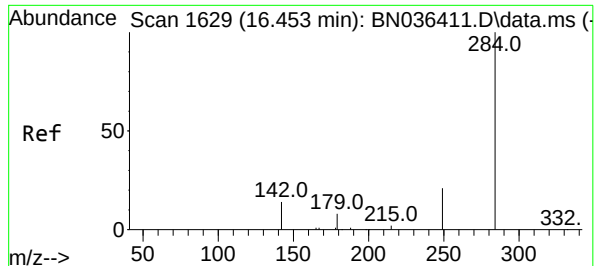
Ion Ratio Lower Upper

248 100

250 95.8 76.1 114.1

141 62.8 71.7 107.5#





#22

Hexachlorobenzene

Concen: 3.983 ng

RT: 16.441 min Scan# 1628

Delta R.T. -0.012 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

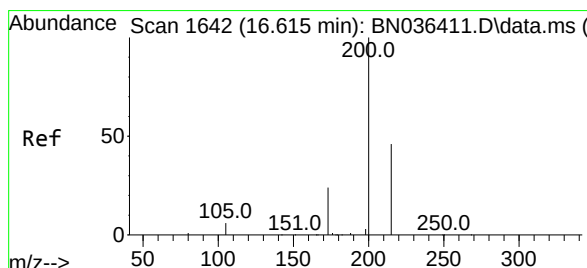
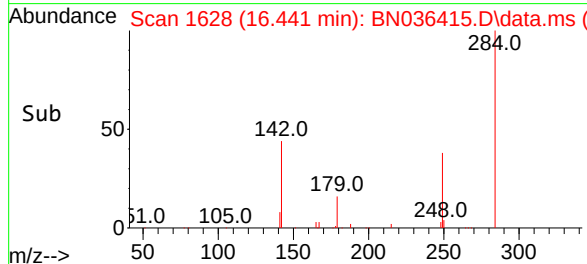
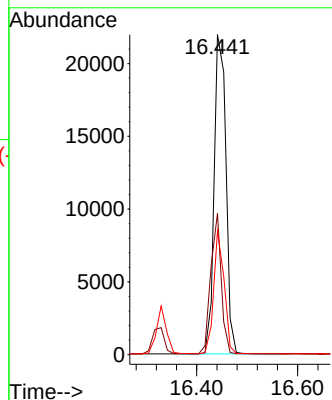
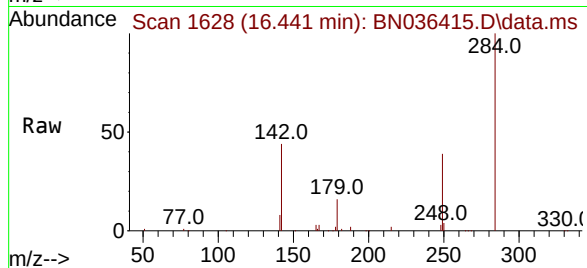
Tgt Ion:284 Resp: 35446

Ion Ratio Lower Upper

284 100

142 39.2 33.4 50.0

249 34.2 28.6 43.0



#23

Atrazine

Concen: 5.288 ng

RT: 16.602 min Scan# 1641

Delta R.T. -0.012 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

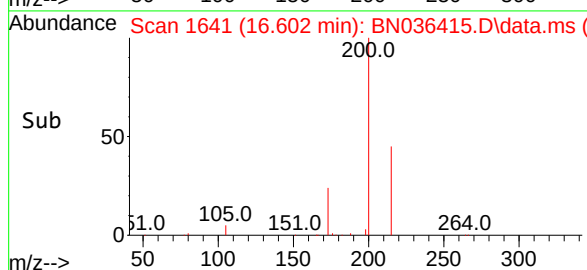
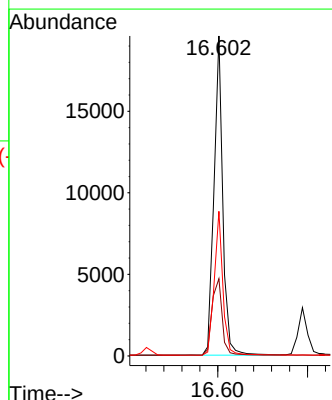
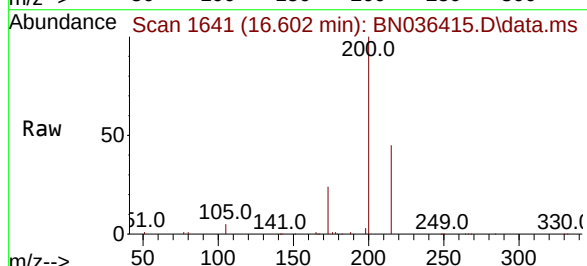
Tgt Ion:200 Resp: 26508

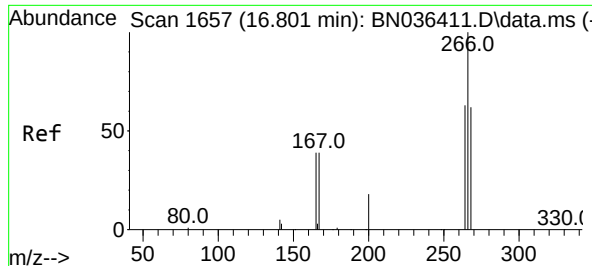
Ion Ratio Lower Upper

200 100

173 24.1 23.2 34.8

215 45.2 40.0 60.0

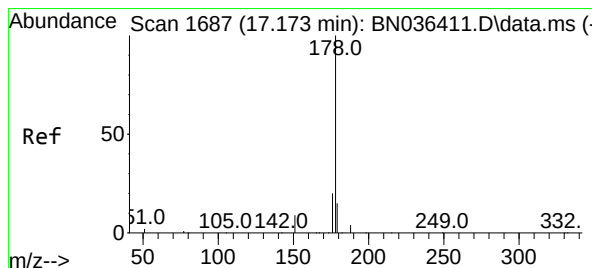
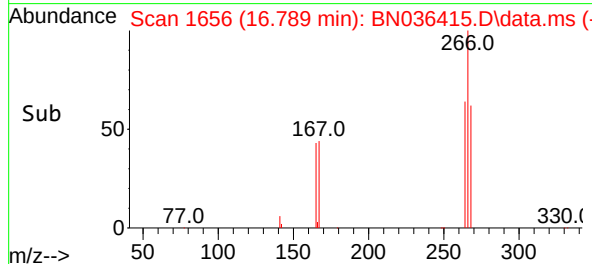
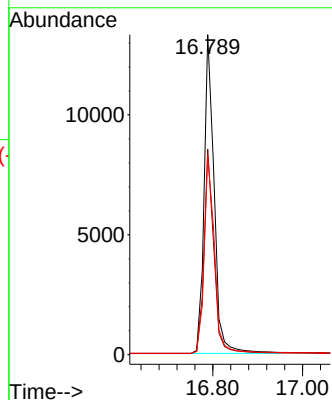
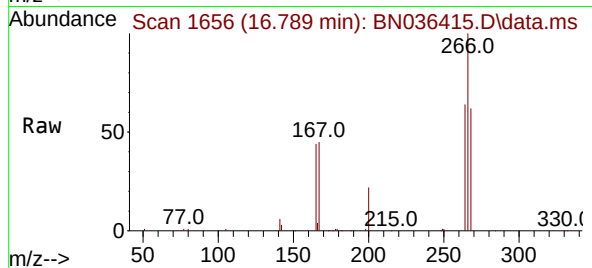




#24
Pentachlorophenol
Concen: 5.340 ng
RT: 16.789 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

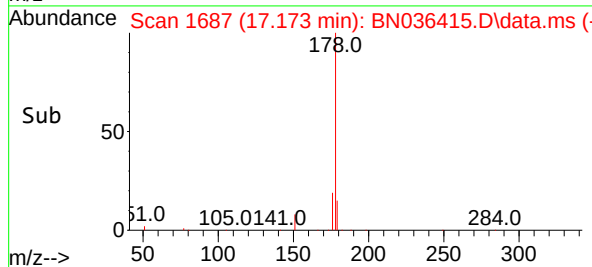
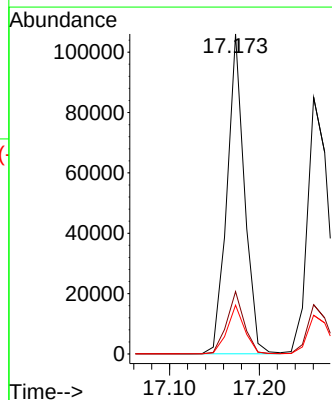
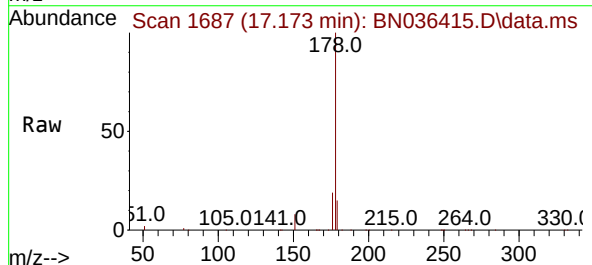
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

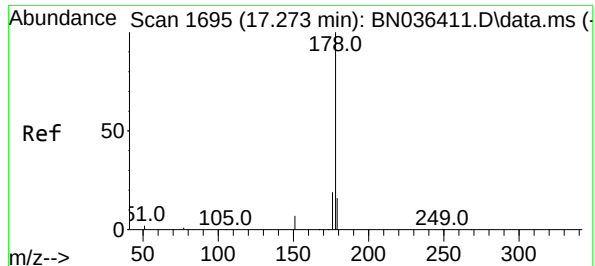
Tgt Ion:266 Resp: 20784
Ion Ratio Lower Upper
266 100
264 63.1 50.6 76.0
268 63.4 51.9 77.9



#25
Phenanthrene
Concen: 4.916 ng
RT: 17.173 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:178 Resp: 143424
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.2 12.4 18.6

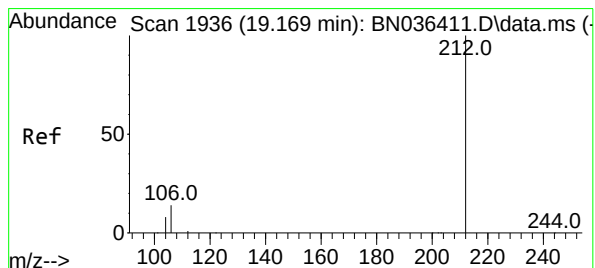
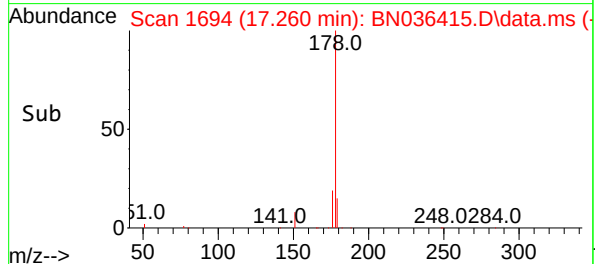
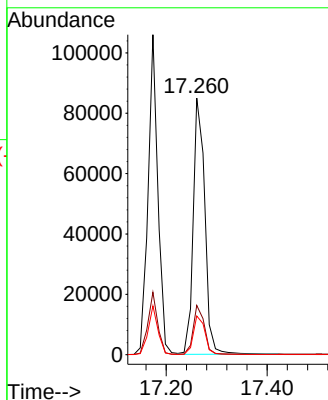
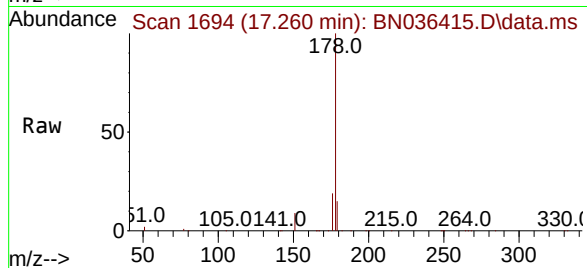




#26
Anthracene
Concen: 5.105 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.012 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

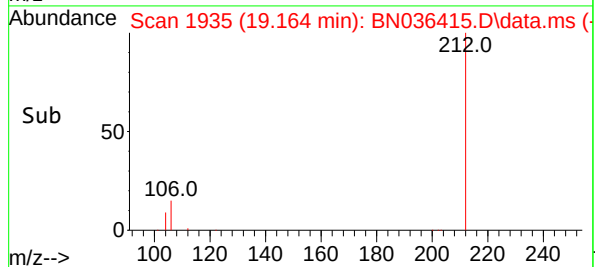
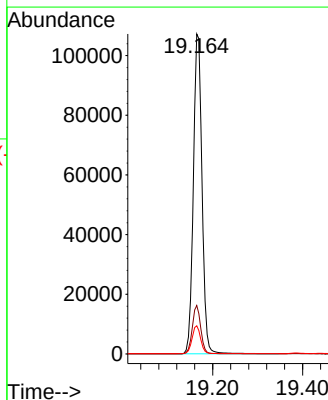
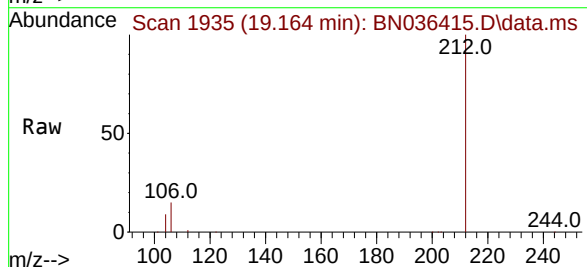
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

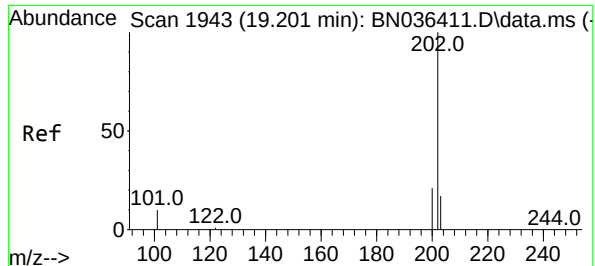
Tgt Ion:178 Resp: 135332
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.2 12.4 18.6



#27
Fluoranthene-d10
Concen: 5.615 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.005 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:212 Resp: 143795
Ion Ratio Lower Upper
212 100
106 14.7 11.5 17.3
104 8.6 7.1 10.7

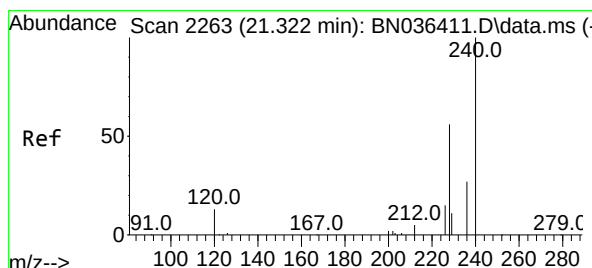
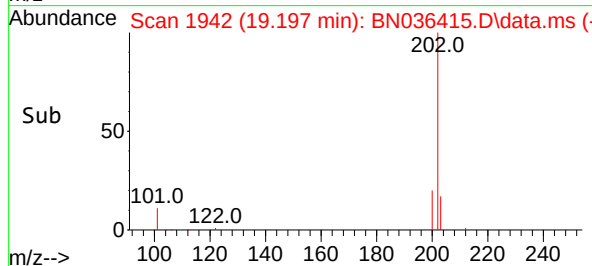
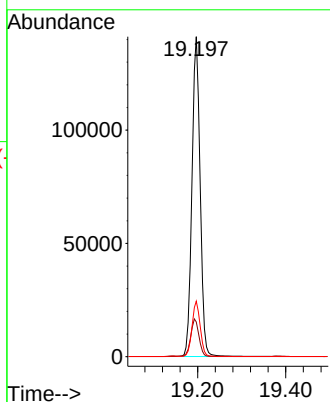
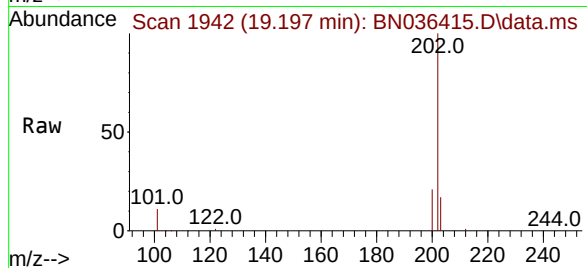




#28
Fluoranthene
Concen: 5.257 ng
RT: 19.197 min Scan# 1943
Delta R.T. -0.005 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

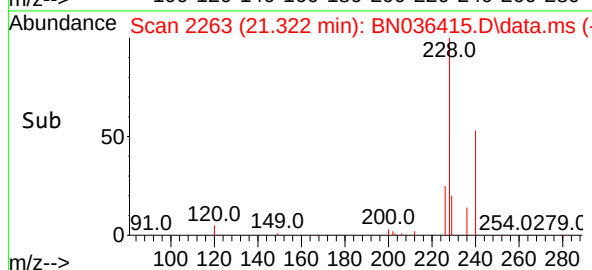
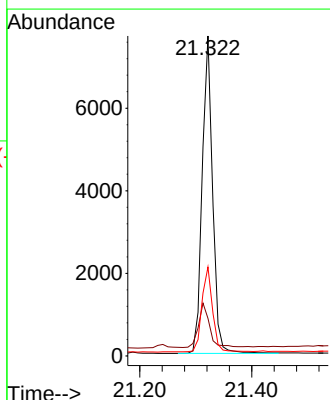
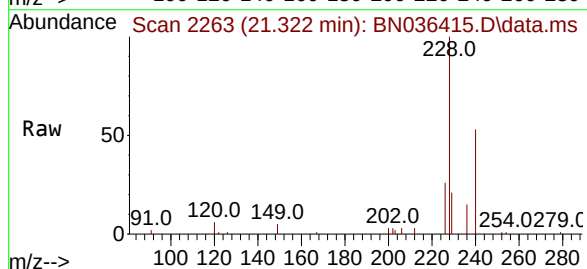
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

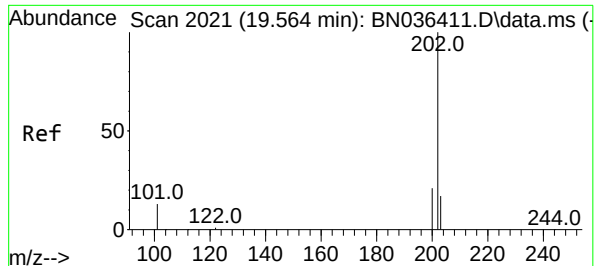
Tgt Ion:202 Resp: 181794
Ion Ratio Lower Upper
202 100
101 12.0 9.2 13.8
203 17.3 13.4 20.0



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.322 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:240 Resp: 9960
Ion Ratio Lower Upper
240 100
120 11.8 13.3 19.9#
236 27.8 23.0 34.6

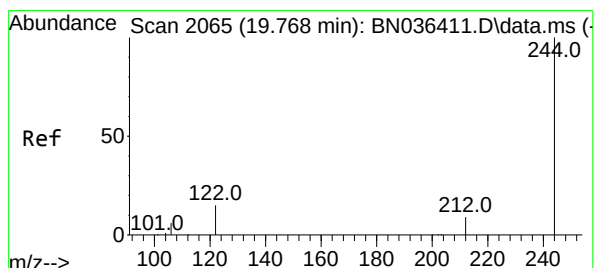
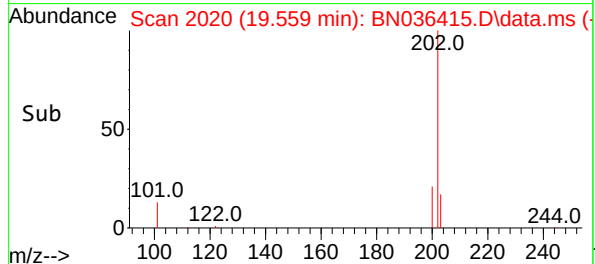
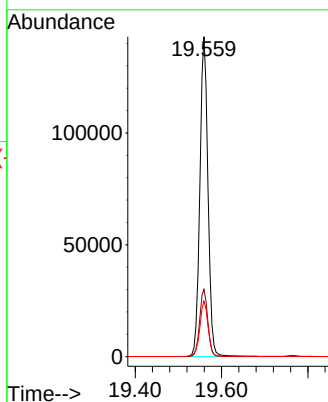
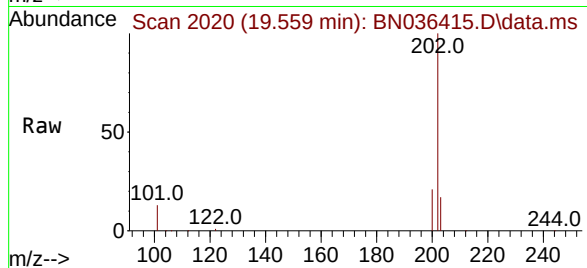




#30
Pyrene
Concen: 4.666 ng
RT: 19.559 min Scan# 2020
Delta R.T. -0.005 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

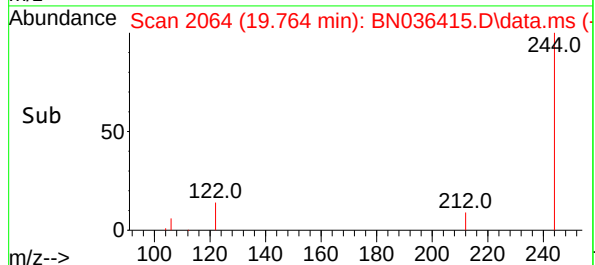
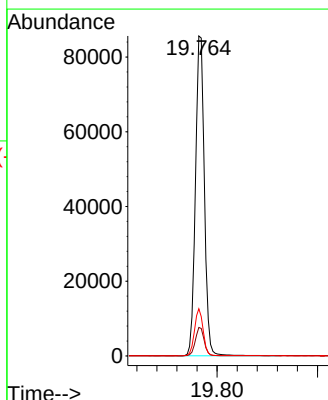
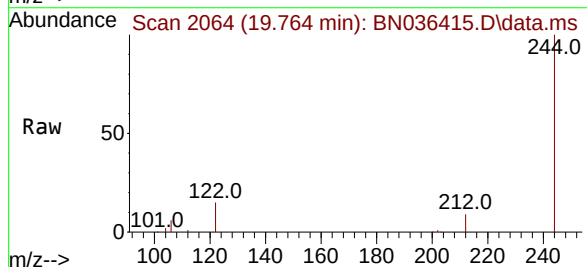
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

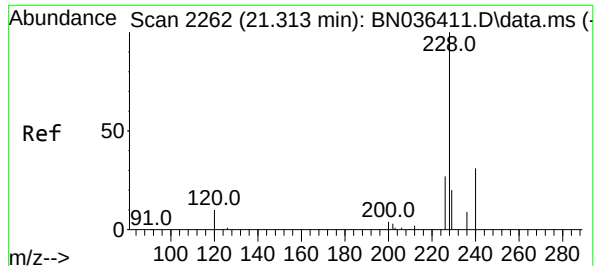
Tgt Ion:202 Resp: 185711
Ion Ratio Lower Upper
202 100
200 21.2 16.9 25.3
203 17.7 13.9 20.9



#31
Terphenyl-d14
Concen: 5.088 ng
RT: 19.764 min Scan# 2064
Delta R.T. -0.005 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:244 Resp: 104936
Ion Ratio Lower Upper
244 100
212 8.9 8.1 12.1
122 14.8 12.8 19.2

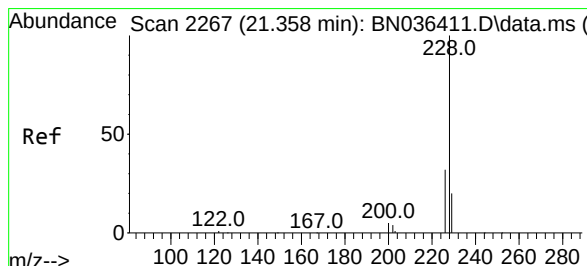
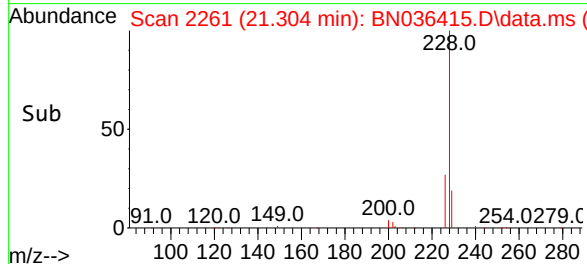
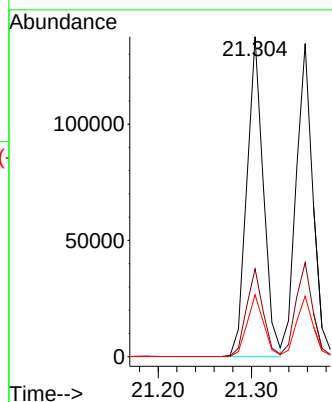
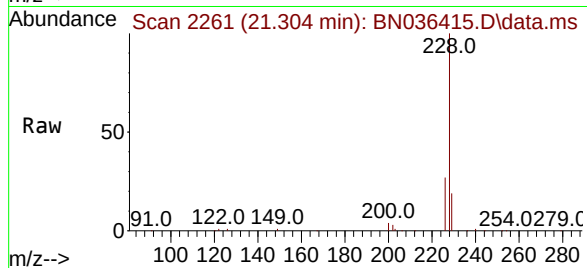




#32
Benzo(a)anthracene
Concen: 4.790 ng
RT: 21.304 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

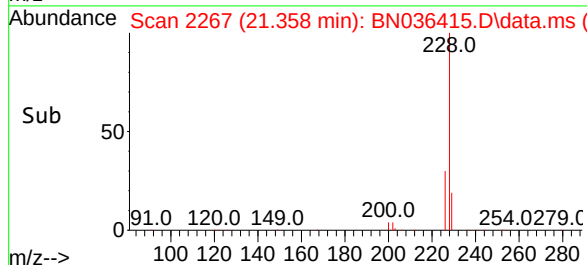
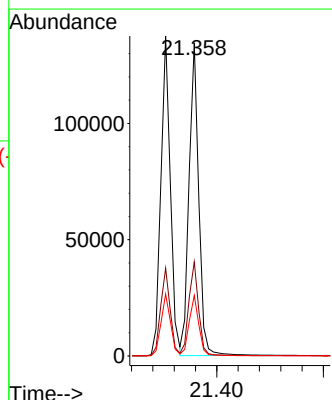
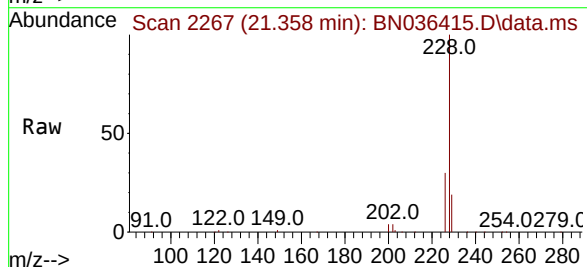
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

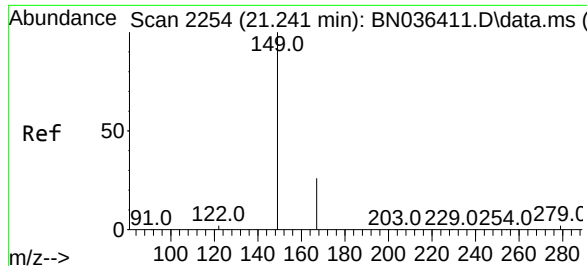
Tgt Ion:228 Resp: 169514
Ion Ratio Lower Upper
228 100
226 27.5 22.2 33.2
229 19.4 16.5 24.7



#33
Chrysene
Concen: 4.687 ng
RT: 21.358 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:228 Resp: 170028
Ion Ratio Lower Upper
228 100
226 30.0 25.5 38.3
229 19.3 16.4 24.6

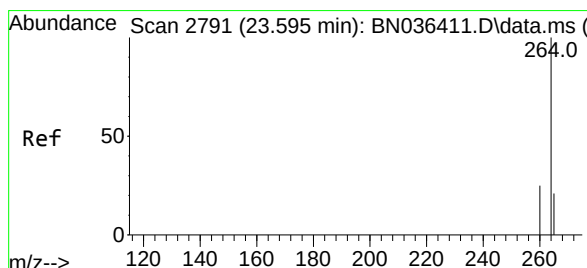
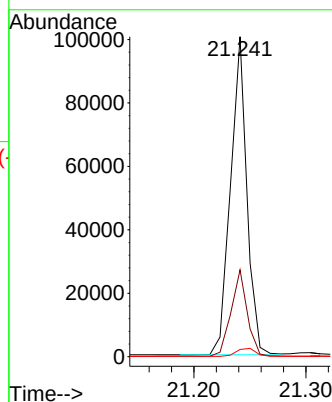
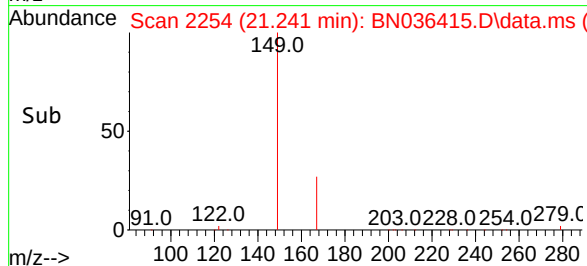
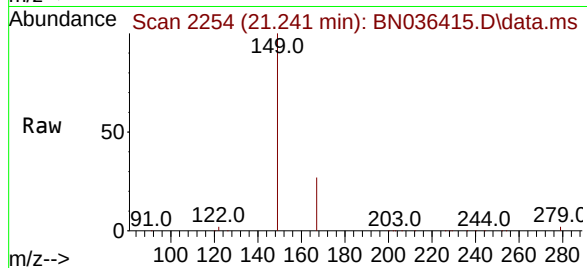




#34
Bis(2-ethylhexyl)phthalate
Concen: 5.168 ng
RT: 21.241 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

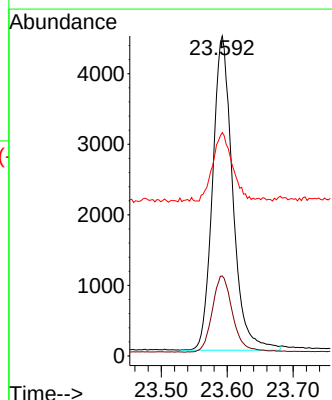
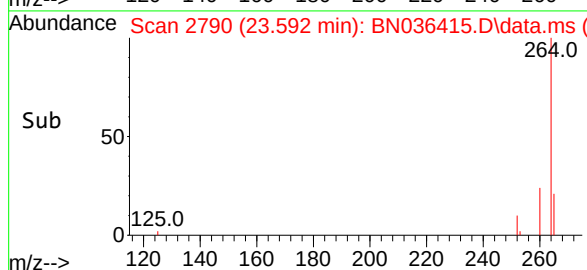
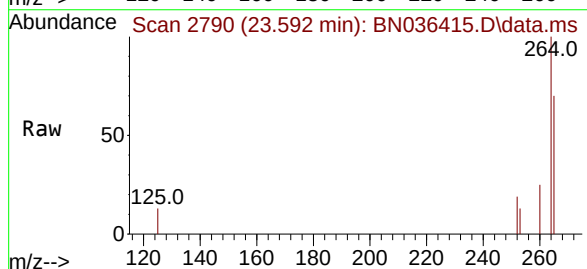
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

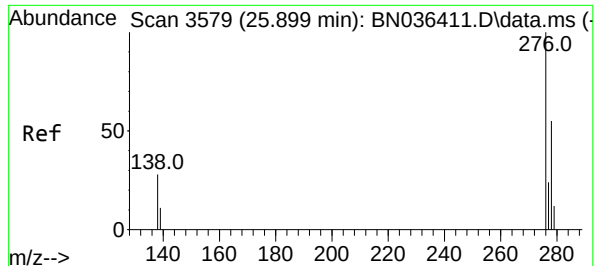
Tgt Ion:149 Resp: 101929
Ion Ratio Lower Upper
149 100
167 26.9 21.2 31.8
279 2.9 2.7 4.1



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.592 min Scan# 2790
Delta R.T. -0.003 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:264 Resp: 9411
Ion Ratio Lower Upper
264 100
260 25.0 20.9 31.3
265 69.8 60.7 91.1





#36

Indeno(1,2,3-cd)pyrene

Concen: 4.679 ng

RT: 25.890 min Scan# 3579

Delta R.T. -0.009 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

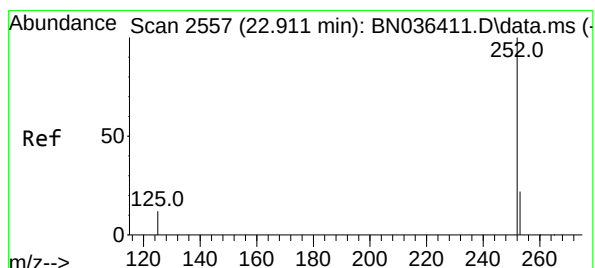
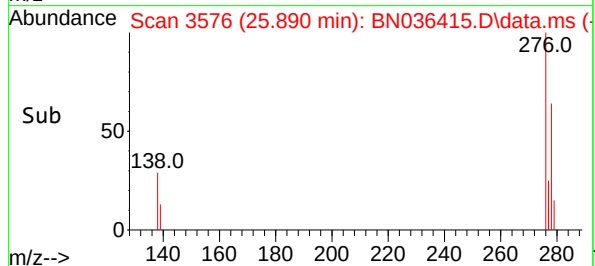
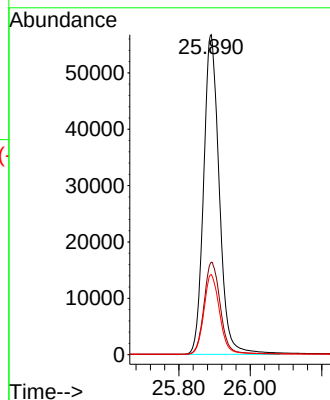
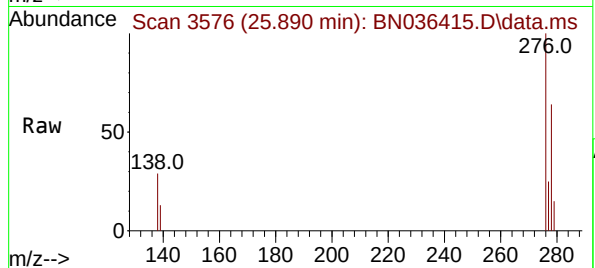
Tgt Ion:276 Resp: 172989

Ion Ratio Lower Upper

276 100

138 30.0 22.2 33.2

277 25.2 19.8 29.6



#37

Benzo(b)fluoranthene

Concen: 4.986 ng

RT: 22.905 min Scan# 2555

Delta R.T. -0.006 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

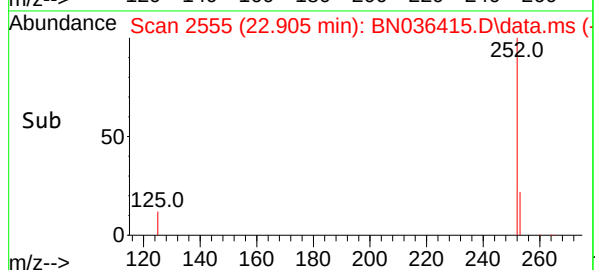
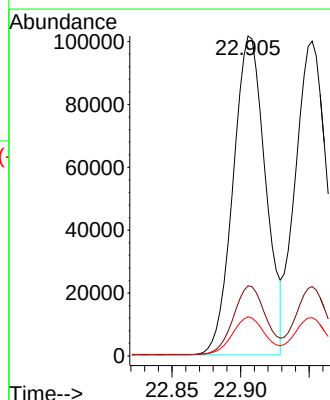
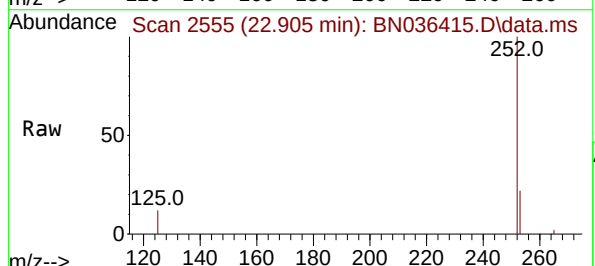
Tgt Ion:252 Resp: 166596

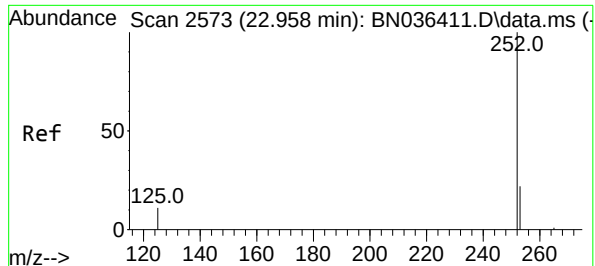
Ion Ratio Lower Upper

252 100

253 21.9 21.9 32.9#

125 12.2 15.0 22.6#





#38

Benzo(k)fluoranthene

Concen: 4.879 ng

RT: 22.952 min Scan# 2573

Delta R.T. -0.006 min

Lab File: BN036415.D

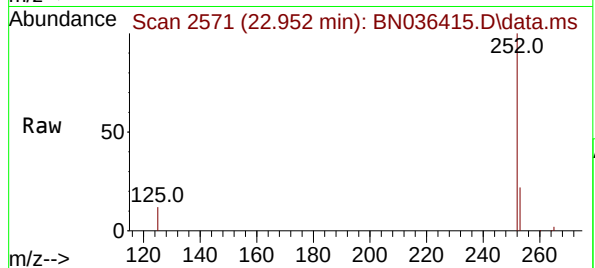
Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



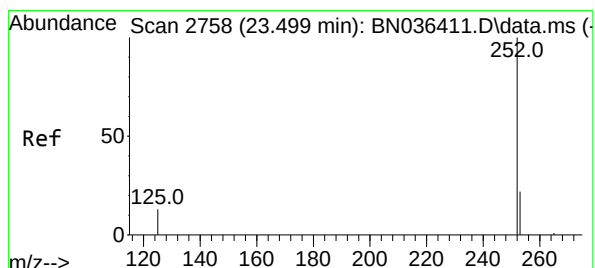
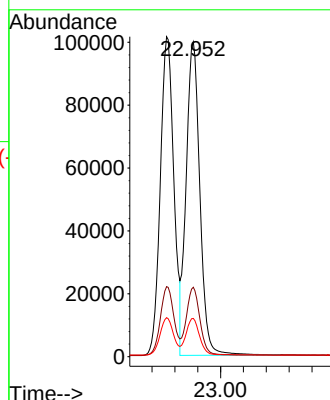
Tgt Ion:252 Resp: 166186

Ion Ratio Lower Upper

252 100

253 22.0 22.2 33.4#

125 12.1 15.0 22.4#



#39

Benzo(a)pyrene

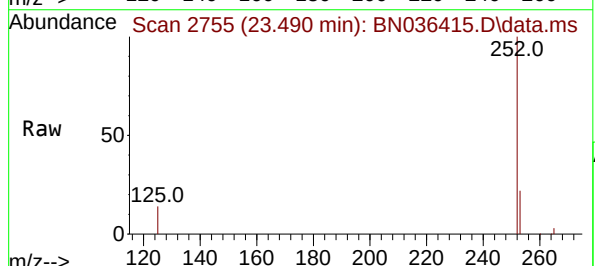
Concen: 4.947 ng

RT: 23.490 min Scan# 2755

Delta R.T. -0.009 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00



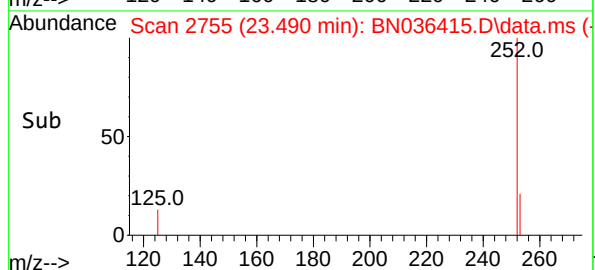
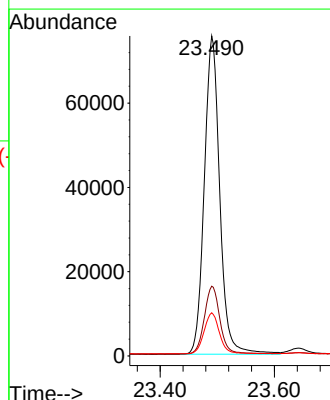
Tgt Ion:252 Resp: 141837

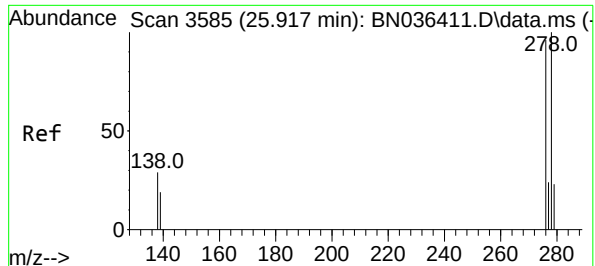
Ion Ratio Lower Upper

252 100

253 21.8 24.4 36.6#

125 13.5 18.2 27.2#





#40

Dibenzo(a,h)anthracene

Concen: 4.709 ng

RT: 25.905 min Scan# 3581

Delta R.T. -0.012 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

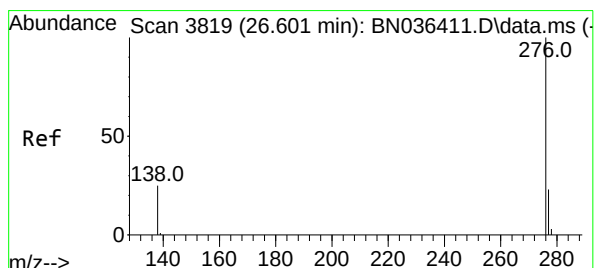
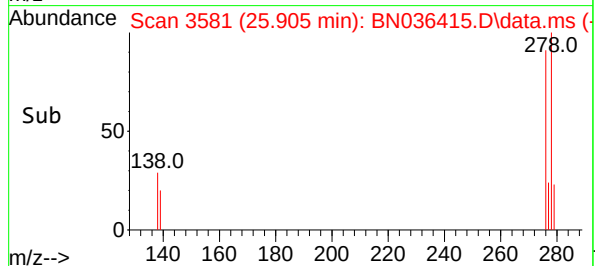
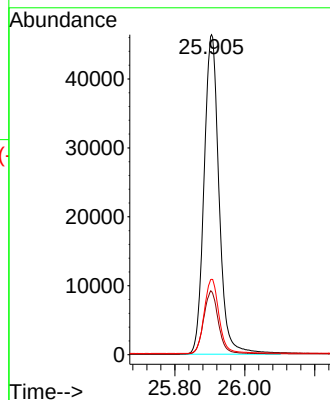
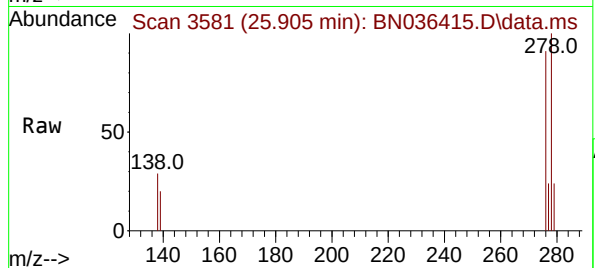
Tgt Ion:278 Resp: 138330

Ion Ratio Lower Upper

278 100

139 19.8 18.5 27.7

279 23.5 24.8 37.2#



#41

Benzo(g,h,i)perylene

Concen: 4.557 ng

RT: 26.595 min Scan# 3817

Delta R.T. -0.006 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

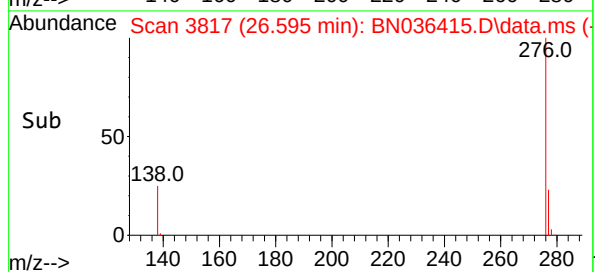
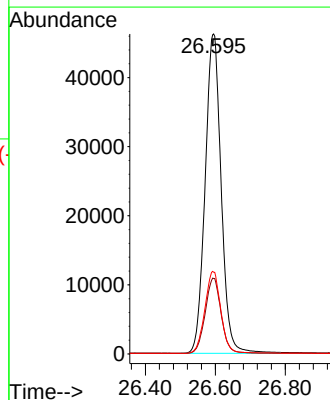
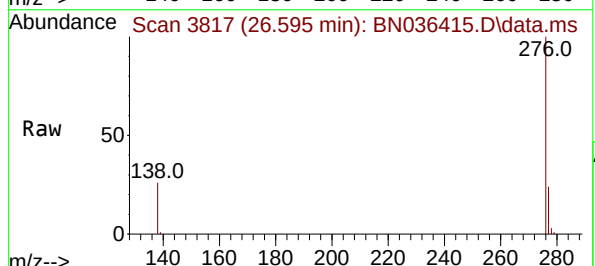
Tgt Ion:276 Resp: 146932

Ion Ratio Lower Upper

276 100

277 23.6 20.7 31.1

138 25.5 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036416.D
 Acq On : 10 Feb 2025 16:36
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

Quant Time: Feb 11 01:25:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

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

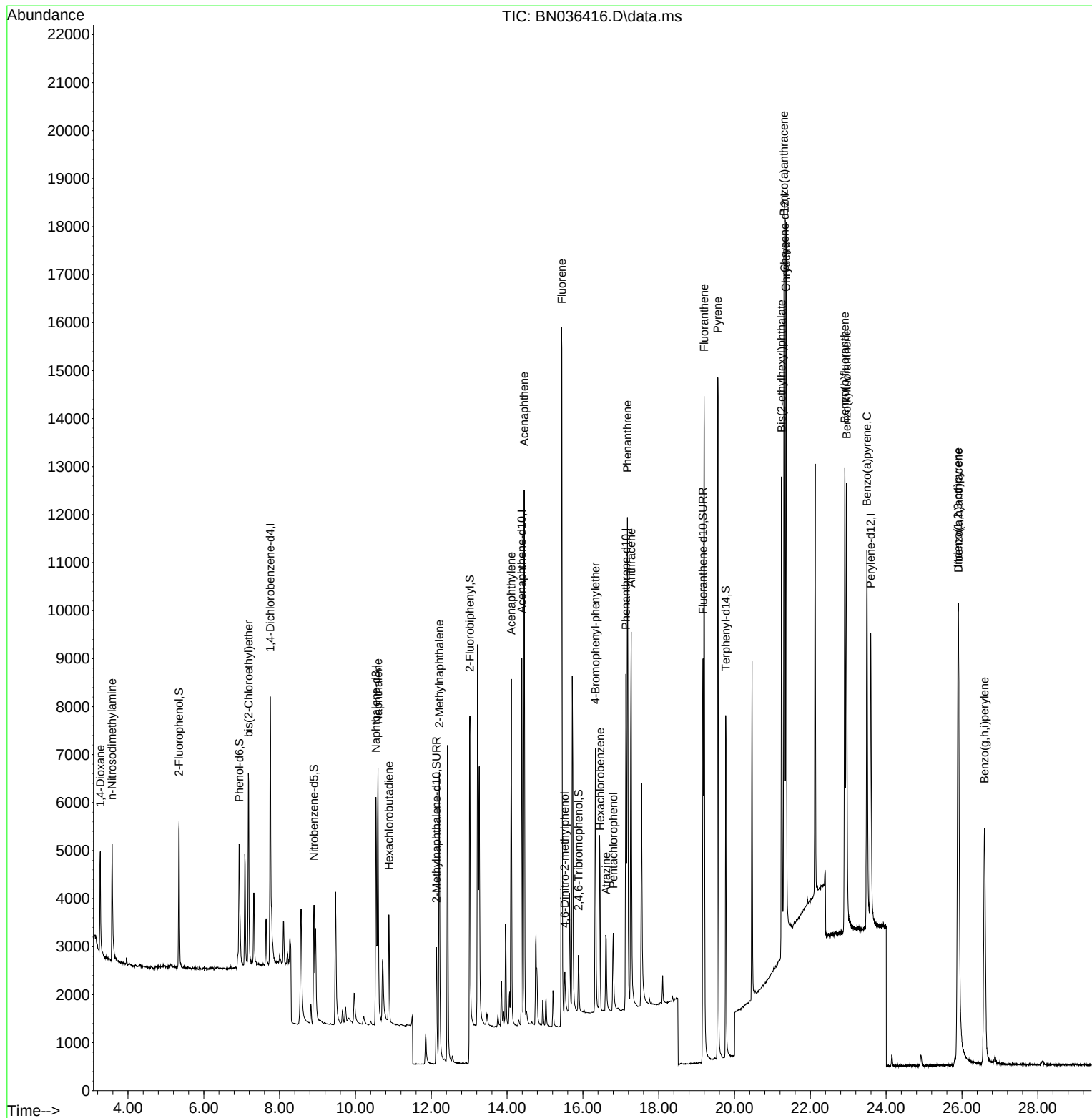
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2722	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	6737	0.400	ng	0.00
13) Acenaphthene-d10	14.388	164	4328	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	9717	0.400	ng	0.00
29) Chrysene-d12	21.322	240	8903	0.400	ng	0.00
35) Perylene-d12	23.592	264	8977	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	2386	0.371	ng	0.00
5) Phenol-d6	6.937	99	2616	0.347	ng	0.00
8) Nitrobenzene-d5	8.907	82	2386	0.359	ng	0.00
11) 2-Methylnaphthalene-d10	12.136	152	4026	0.389	ng	0.00
14) 2,4,6-Tribromophenol	15.882	330	713	0.332	ng	0.00
15) 2-Fluorobiphenyl	13.019	172	6616	0.407	ng	0.00
27) Fluoranthene-d10	19.169	212	10243	0.379	ng	0.00
31) Terphenyl-d14	19.768	244	7744	0.407	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.268	88	1221	0.410	ng	98
3) n-Nitrosodimethylamine	3.579	42	1993	0.385	ng	96
6) bis(2-Chloroethyl)ether	7.183	93	3230	0.409	ng	96
9) Naphthalene	10.594	128	7554	0.389	ng	99
10) Hexachlorobutadiene	10.882	225	1910	0.404	ng	# 99
12) 2-Methylnaphthalene	12.212	142	5146	0.404	ng	98
16) Acenaphthylene	14.110	152	8061	0.422	ng	100
17) Acenaphthene	14.452	154	5199	0.407	ng	99
18) Fluorene	15.446	166	7222	0.397	ng	98
20) 4,6-Dinitro-2-methylph...	15.522	198	664	0.348	ng	92
21) 4-Bromophenyl-phenylether	16.329	248	2290	0.395	ng	96
22) Hexachlorobenzene	16.453	284	2904	0.406	ng	97
23) Atrazine	16.615	200	1916	0.396	ng	98
24) Pentachlorophenol	16.801	266	1075	0.316	ng	99
25) Phenanthrene	17.173	178	11446	0.408	ng	100
26) Anthracene	17.273	178	10171	0.411	ng	99
28) Fluoranthene	19.197	202	13415	0.389	ng	100
30) Pyrene	19.559	202	13881	0.405	ng	100
32) Benzo(a)anthracene	21.304	228	11819	0.403	ng	99
33) Chrysene	21.357	228	13425	0.423	ng	98
34) Bis(2-ethylhexyl)phtha...	21.241	149	6985	0.383	ng	98
36) Indeno(1,2,3-cd)pyrene	25.896	276	13738	0.438	ng	100
37) Benzo(b)fluoranthene	22.908	252	12283	0.415	ng	97
38) Benzo(k)fluoranthene	22.955	252	13099	0.430	ng	97
39) Benzo(a)pyrene	23.493	252	11703	0.454	ng	95
40) Dibenzo(a,h)anthracene	25.908	278	10585	0.427	ng	96
41) Benzo(g,h,i)perylene	26.595	276	10921	0.389	ng	98

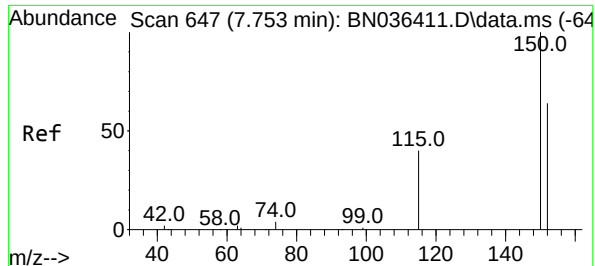
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036416.D
Acq On : 10 Feb 2025 16:36
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN021025

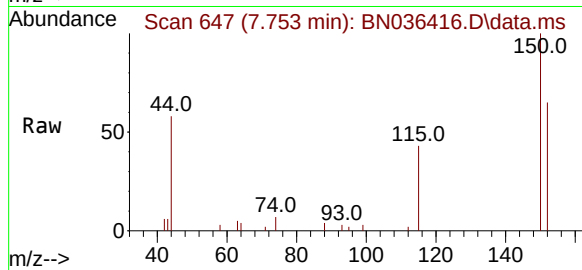
Quant Time: Feb 11 01:25:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration





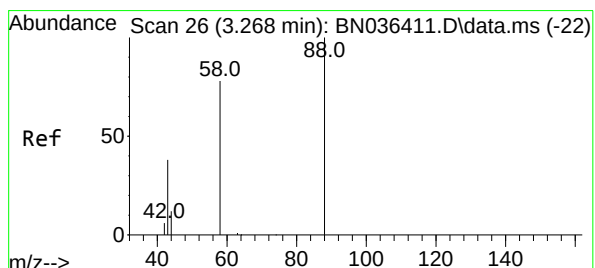
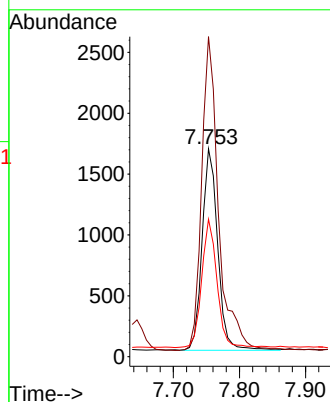
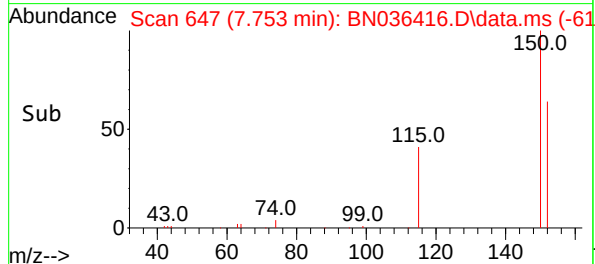
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Instrument :
BNA_N
ClientSampleId :
ICVBN021025



Tgt Ion:152 Resp: 2722

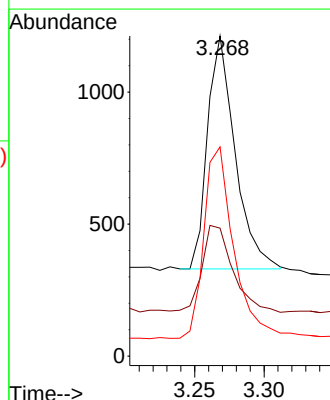
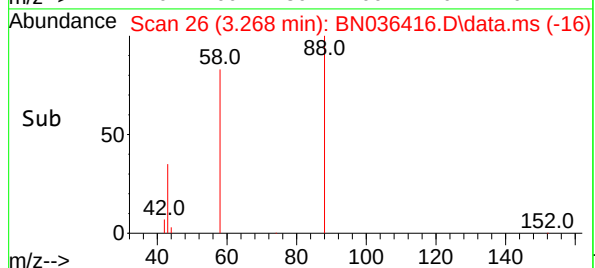
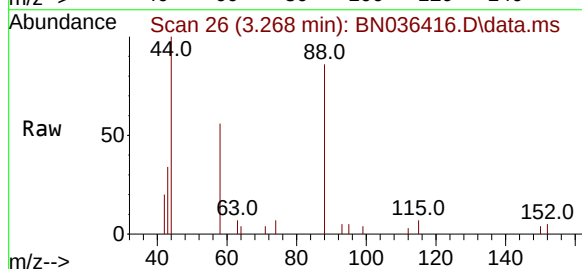
Ion	Ratio	Lower	Upper
152	100		
150	154.0	123.7	185.5
115	66.1	52.5	78.7

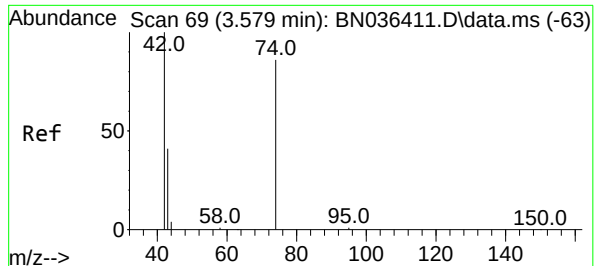


#2
1,4-Dioxane
Concen: 0.410 ng
RT: 3.268 min Scan# 26
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion: 88 Resp: 1221

Ion	Ratio	Lower	Upper
88	100		
43	41.8	33.7	50.5
58	89.2	68.9	103.3

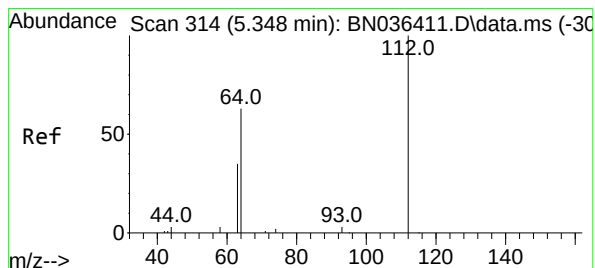
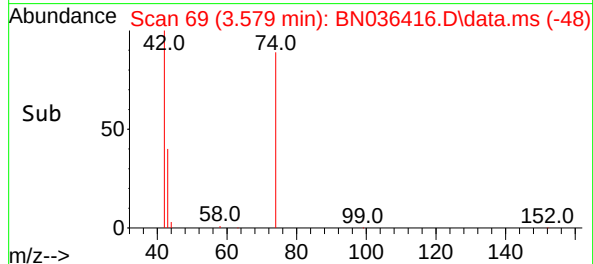
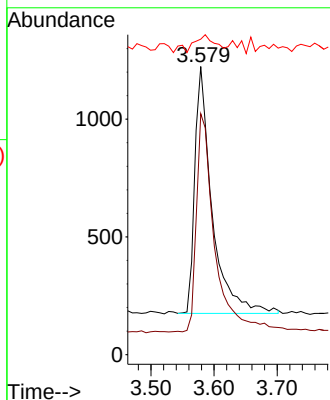
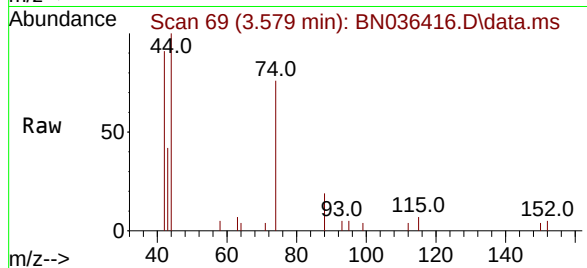




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.579 min Scan# 69
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

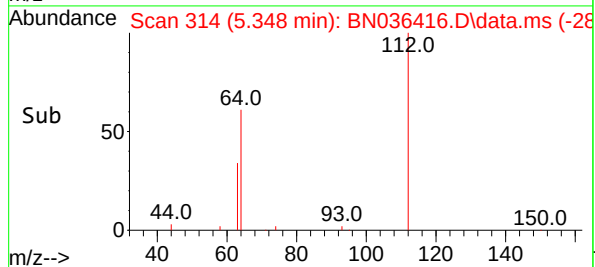
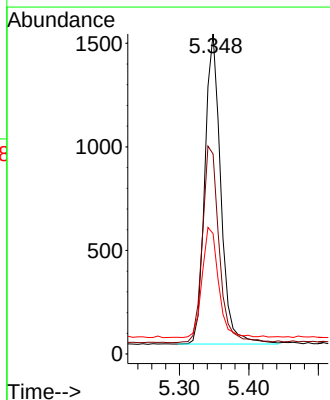
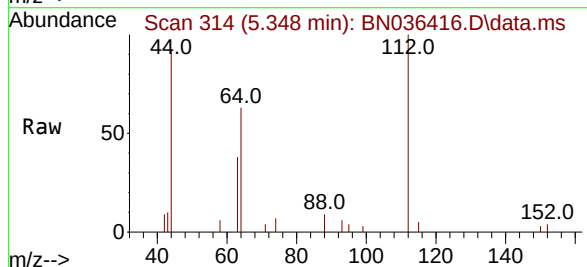
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

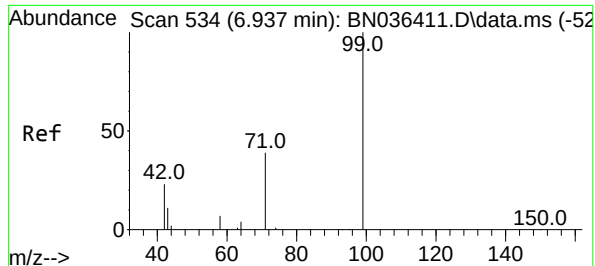
Tgt Ion: 42 Resp: 1993
Ion Ratio Lower Upper
42 100
74 93.5 71.8 107.6
44 7.9 7.8 11.6



#4
2-Fluorophenol
Concen: 0.371 ng
RT: 5.348 min Scan# 314
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion: 112 Resp: 2386
Ion Ratio Lower Upper
112 100
64 66.4 53.4 80.0
63 36.3 30.3 45.5





#5

Phenol-d6

Concen: 0.347 ng

RT: 6.937 min Scan# 51

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

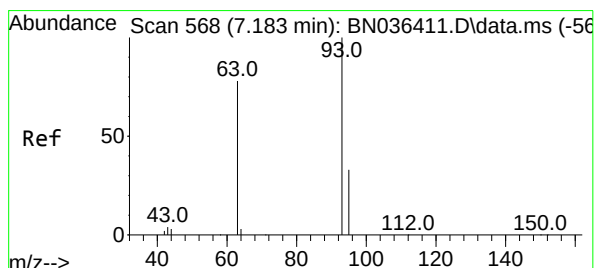
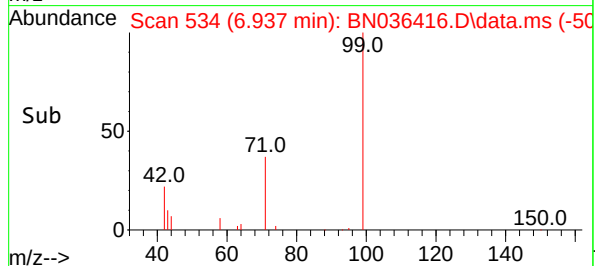
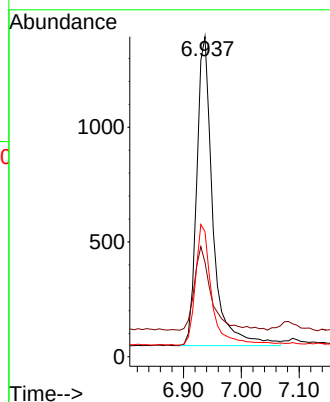
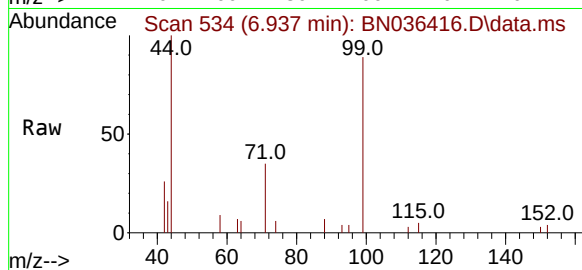
Tgt Ion: 99 Resp: 2616

Ion Ratio Lower Upper

99 100

42 28.4 21.7 32.5

71 39.6 32.6 49.0



#6

bis(2-Chloroethyl)ether

Concen: 0.409 ng

RT: 7.183 min Scan# 568

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

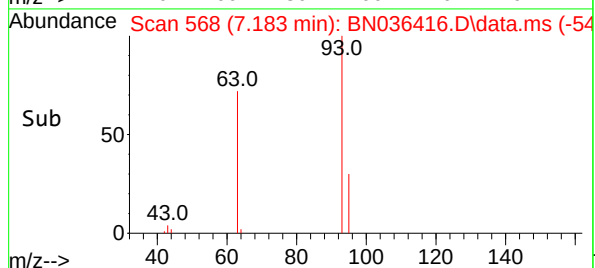
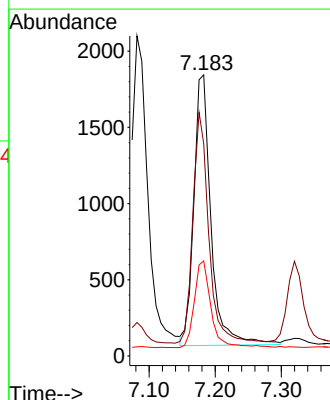
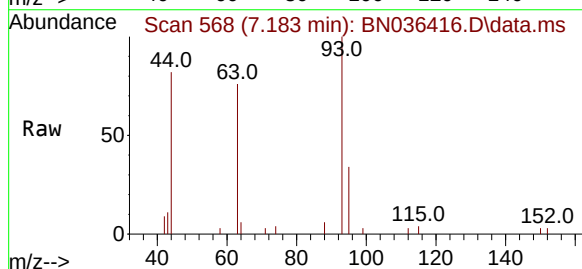
Tgt Ion: 93 Resp: 3230

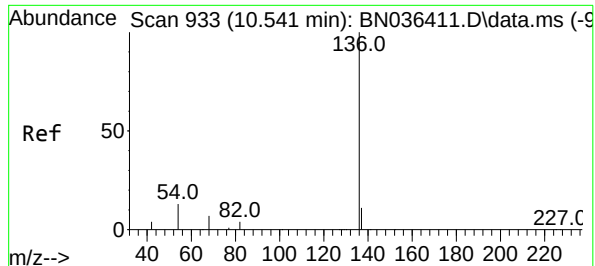
Ion Ratio Lower Upper

93 100

63 78.7 66.3 99.5

95 31.0 26.2 39.4

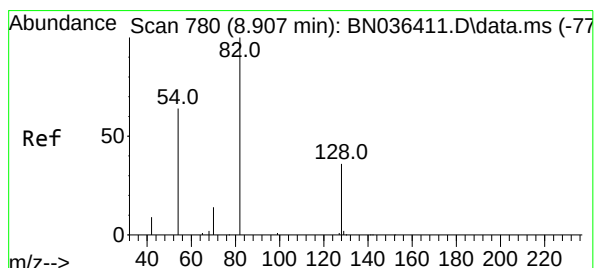
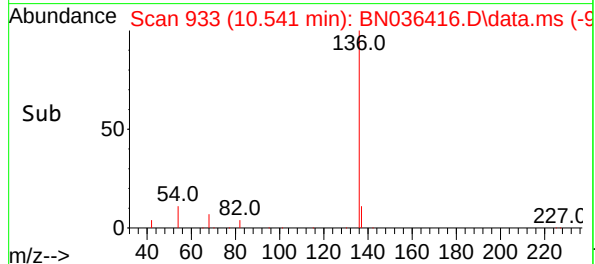
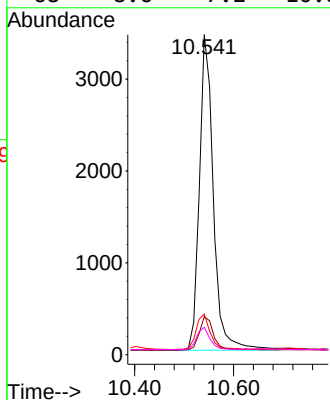
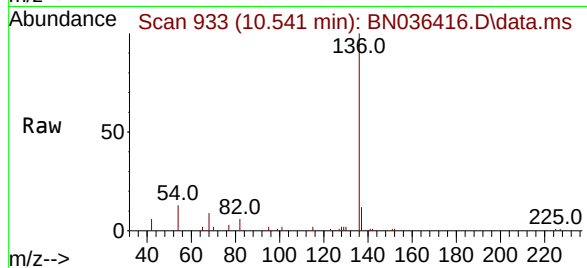




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

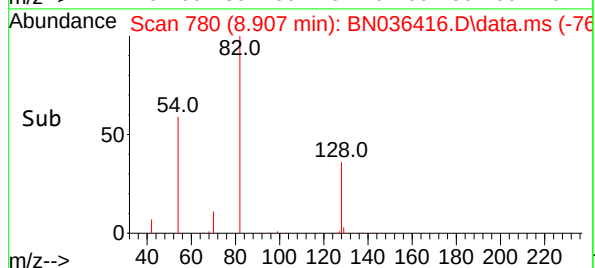
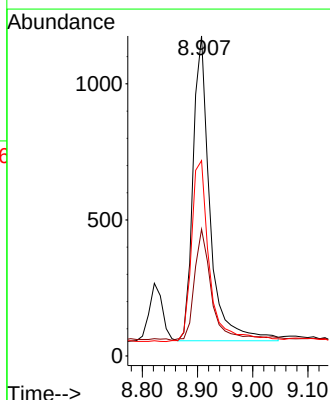
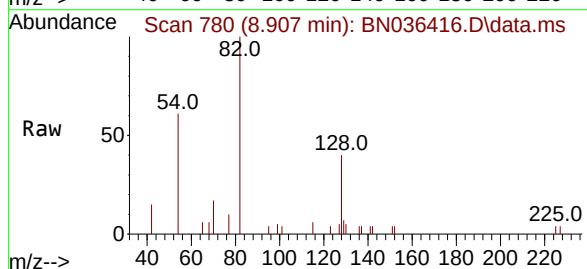
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

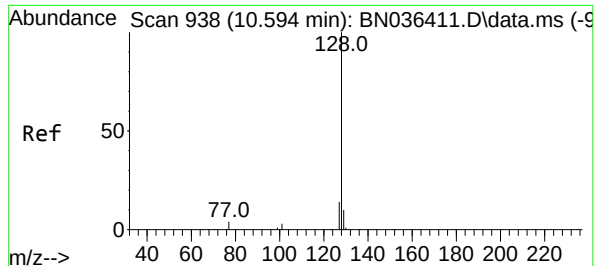
Tgt Ion:	136	Resp:	6737
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.1	15.1
54	12.7	11.8	17.6
68	8.6	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.907 min Scan# 780
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:	82	Resp:	2386
Ion	Ratio	Lower	Upper
82	100		
128	39.6	31.9	47.9
54	61.1	53.1	79.7

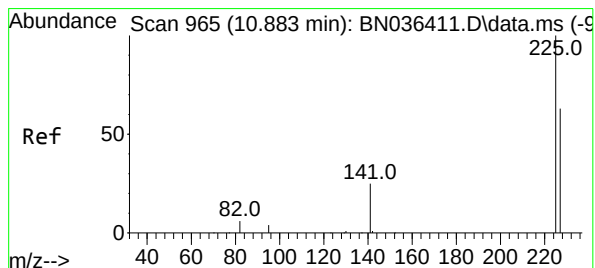
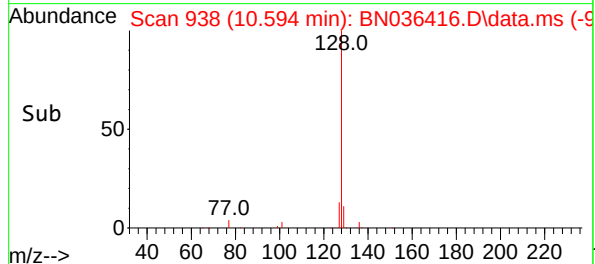
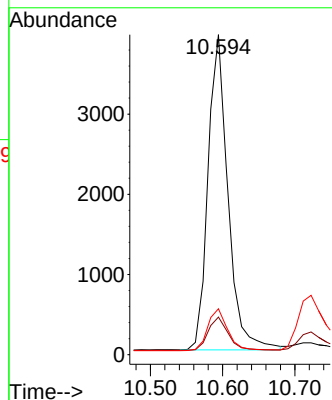
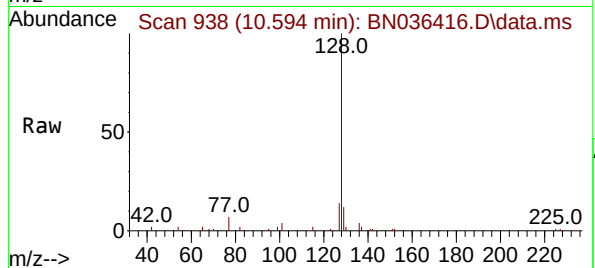




#9
Naphthalene
Concen: 0.389 ng
RT: 10.594 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

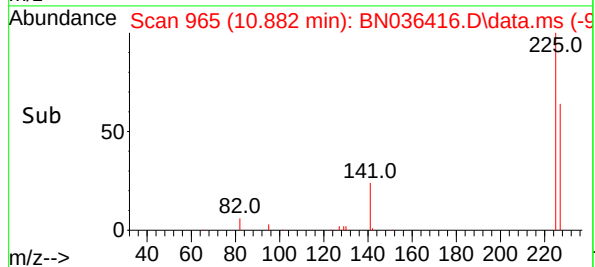
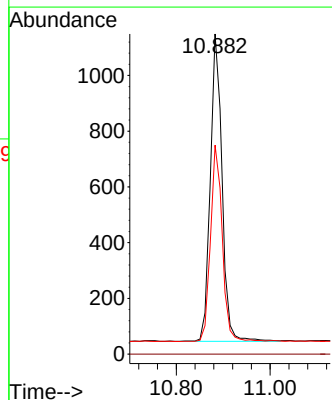
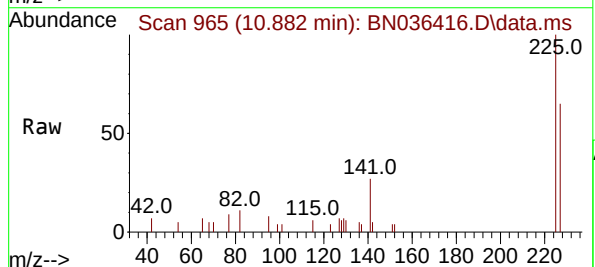
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

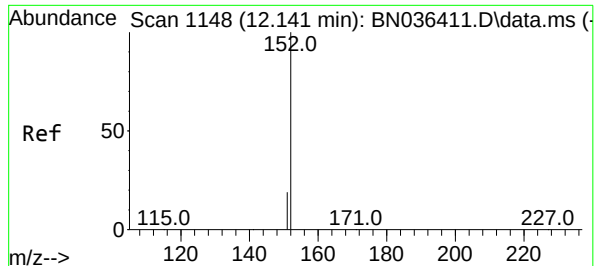
Tgt Ion:128 Resp: 7554
Ion Ratio Lower Upper
128 100
129 11.8 9.6 14.4
127 14.3 12.0 18.0



#10
Hexachlorobutadiene
Concen: 0.404 ng
RT: 10.882 min Scan# 965
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:225 Resp: 1910
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.6 50.9 76.3

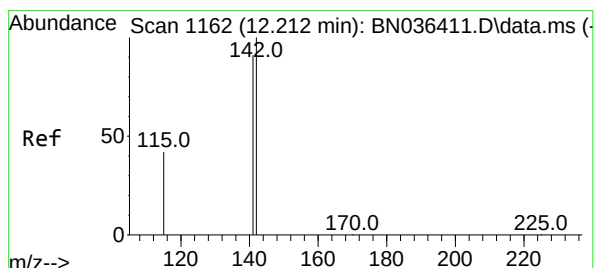
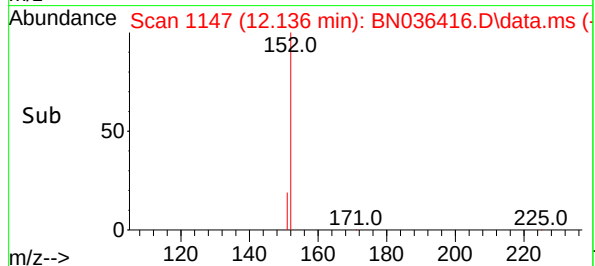
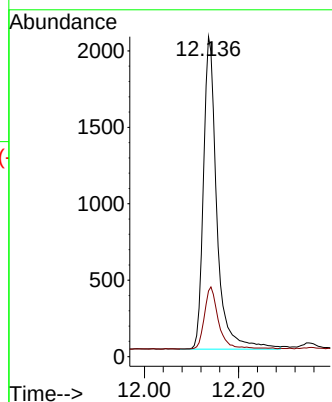
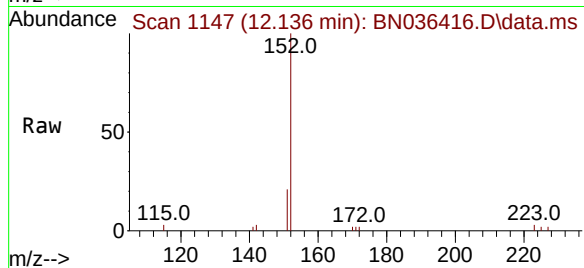




#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 12.136 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

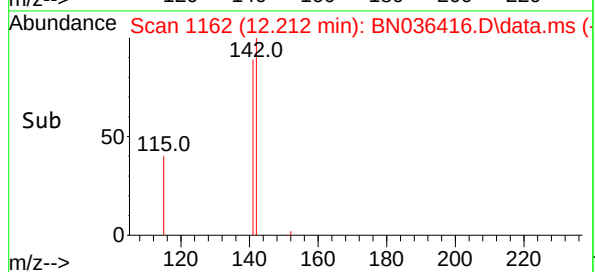
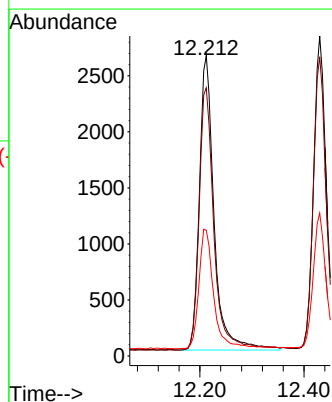
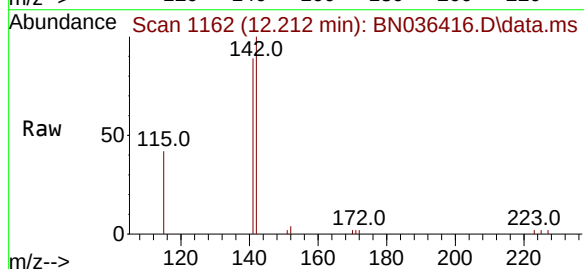
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

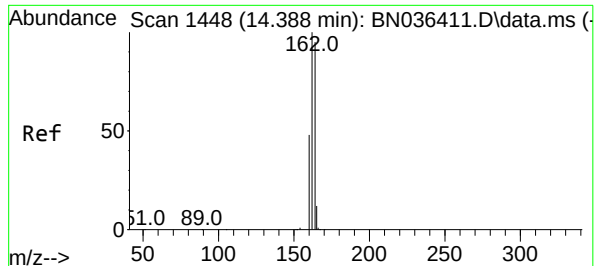
Tgt Ion:152 Resp: 4026
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.404 ng
RT: 12.212 min Scan# 1162
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:142 Resp: 5146
Ion Ratio Lower Upper
142 100
141 89.3 72.8 109.2
115 41.9 35.5 53.3

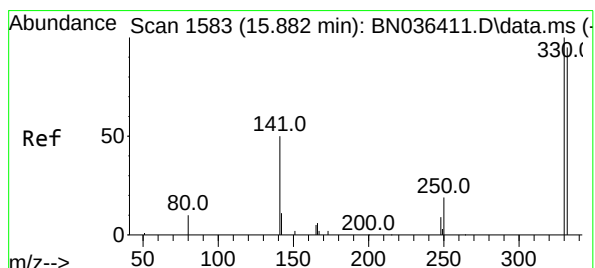
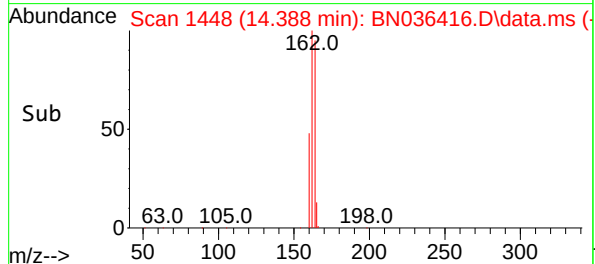
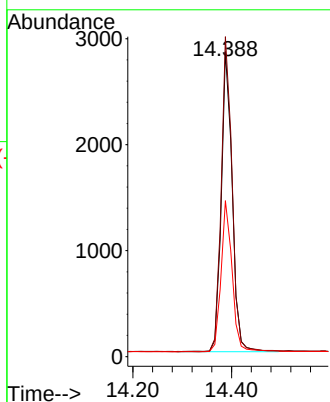
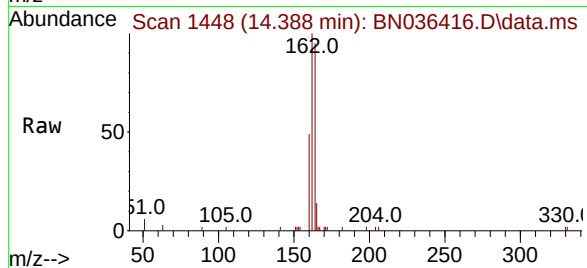




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

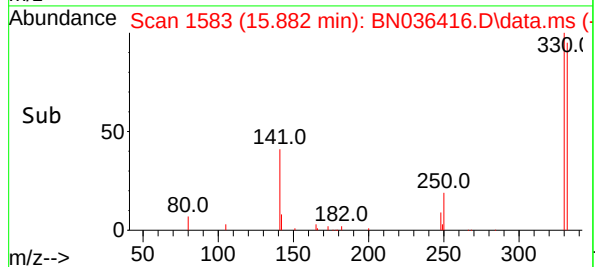
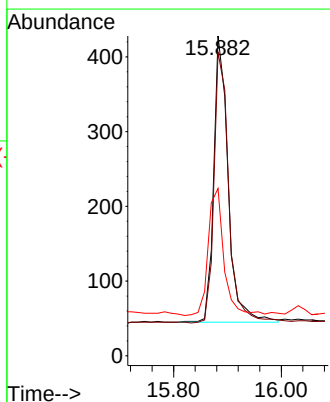
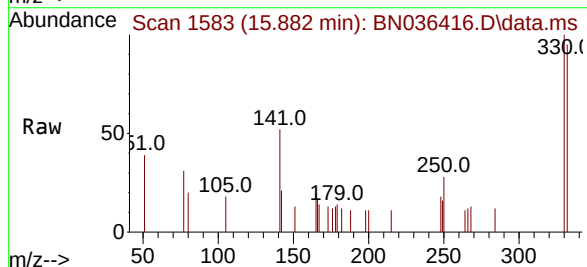
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

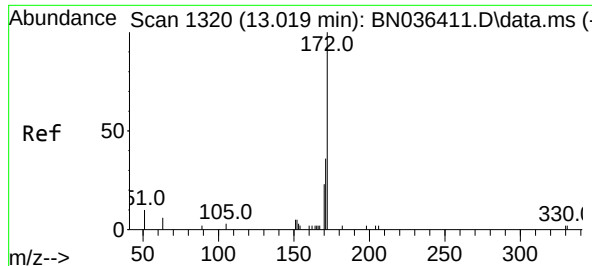
Tgt Ion:164 Resp: 4328
Ion Ratio Lower Upper
164 100
162 104.9 84.1 126.1
160 51.1 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.332 ng
RT: 15.882 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:330 Resp: 713
Ion Ratio Lower Upper
330 100
332 97.6 76.6 114.8
141 48.9 37.8 56.8

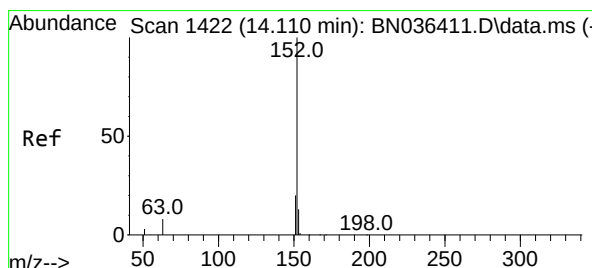
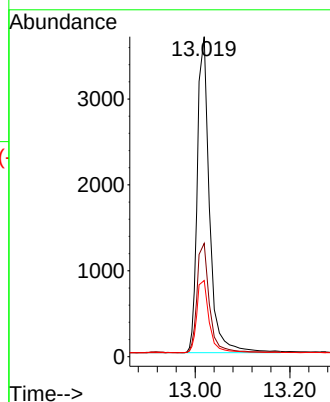
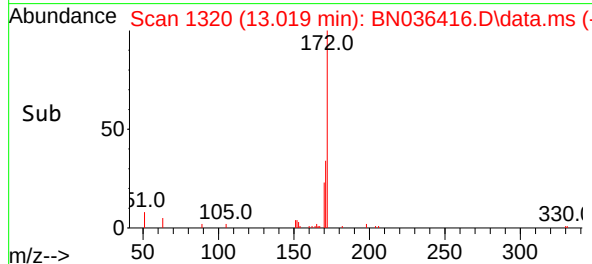
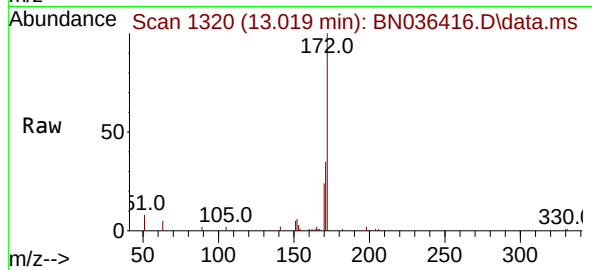




#15
2-Fluorobiphenyl
Concen: 0.407 ng
RT: 13.019 min Scan# 1320
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

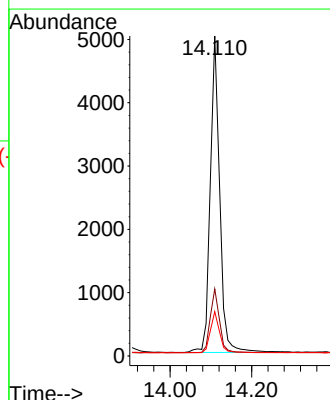
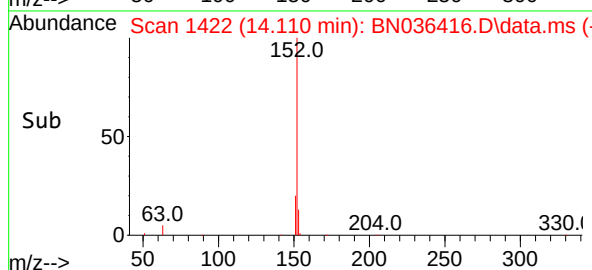
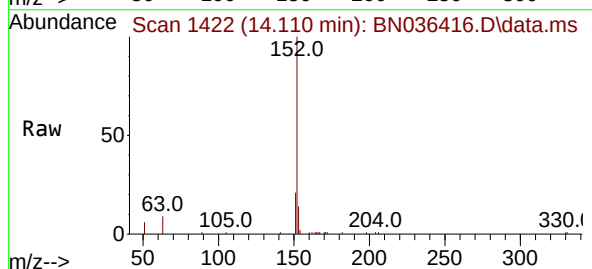
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

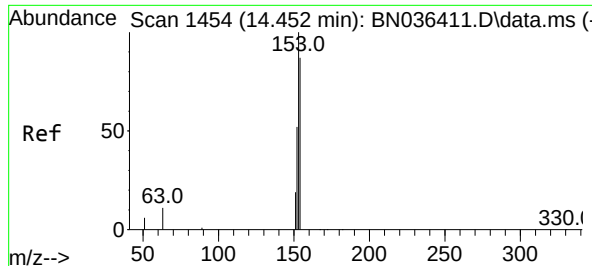
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.6	44.4
170	23.8	19.8	29.6



#16
Acenaphthylene
Concen: 0.422 ng
RT: 14.110 min Scan# 1422
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	12.9	10.2	15.2

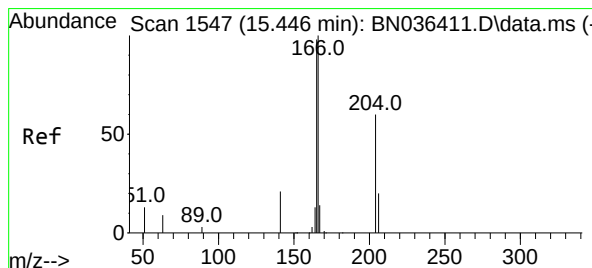
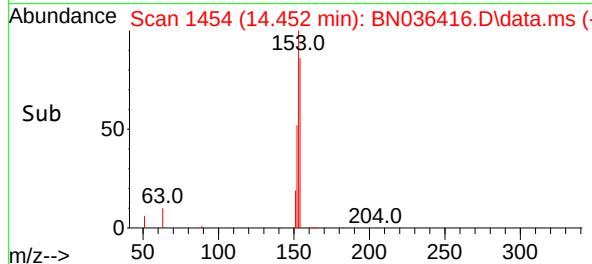
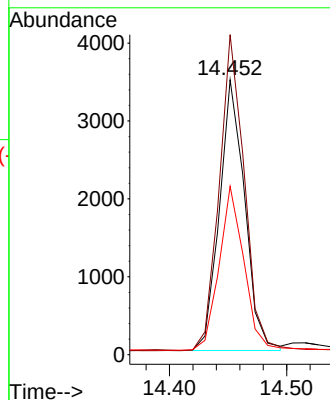
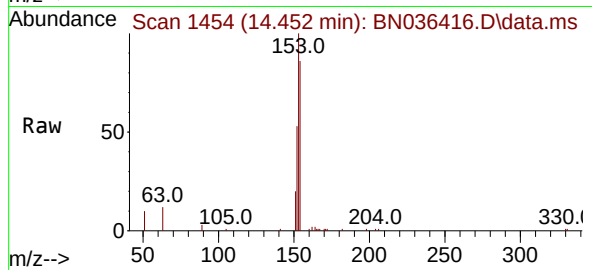




#17
Acenaphthene
Concen: 0.407 ng
RT: 14.452 min Scan# 1454
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

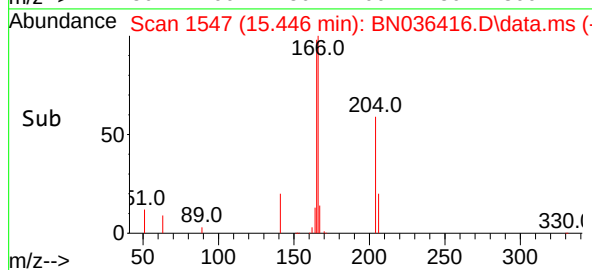
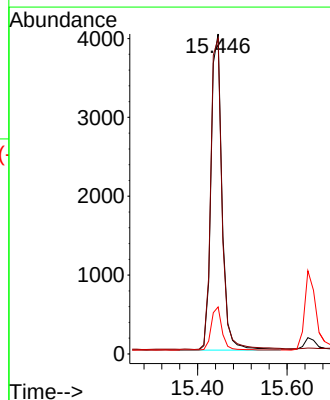
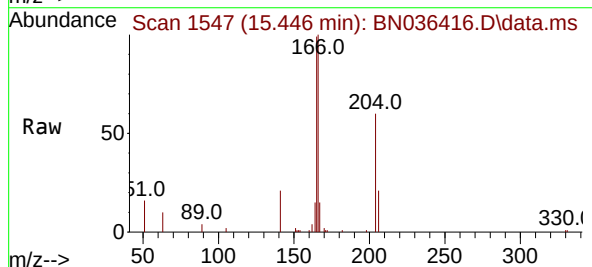
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

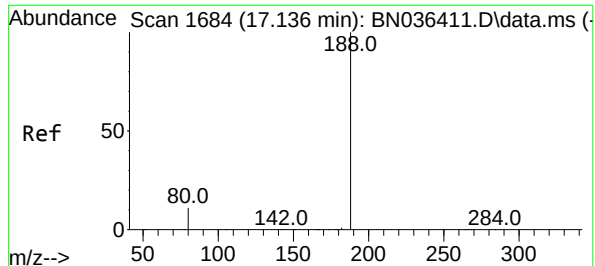
Tgt Ion:	154	Resp:	5199
Ion Ratio	Lower	Upper	
154	100		
153	117.1	93.3	139.9
152	60.5	48.8	73.2



#18
Fluorene
Concen: 0.397 ng
RT: 15.446 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:	166	Resp:	7222
Ion Ratio	Lower	Upper	
166	100		
165	101.4	79.5	119.3
167	13.7	10.4	15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

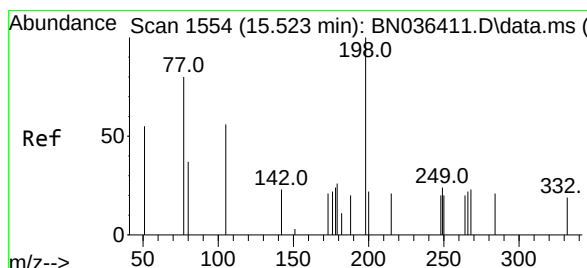
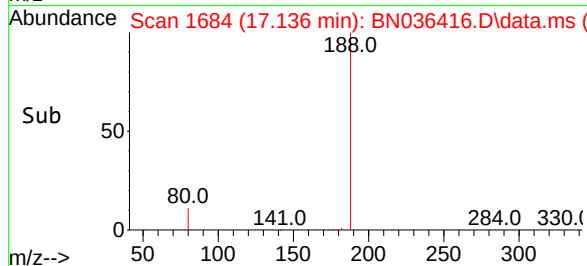
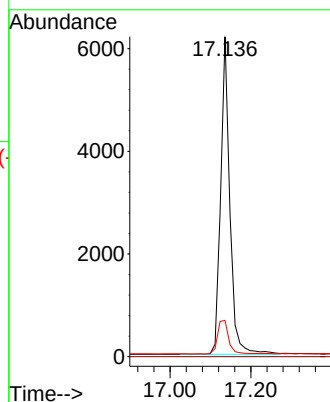
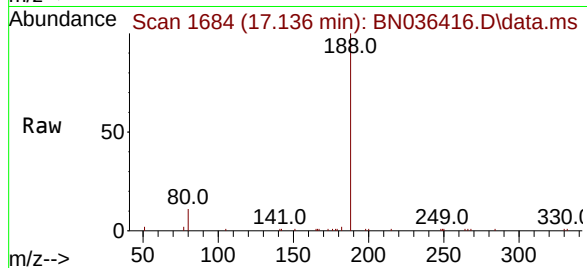
Tgt Ion:188 Resp: 9717

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.348 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.001 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

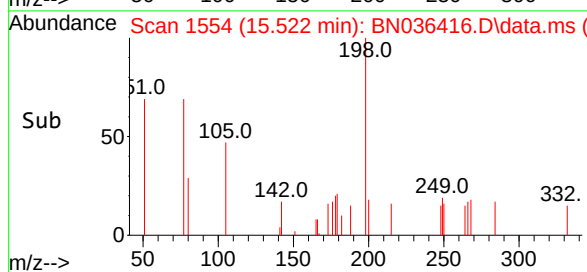
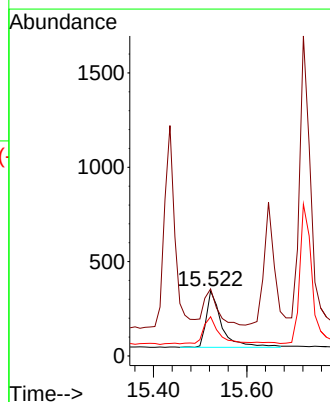
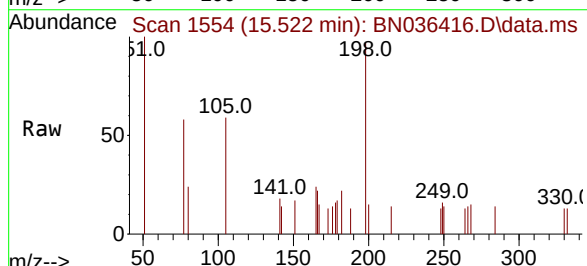
Tgt Ion:198 Resp: 664

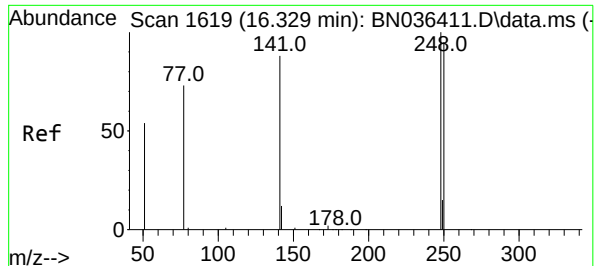
Ion Ratio Lower Upper

198 100

51 103.2 86.6 129.8

105 60.5 57.5 86.3

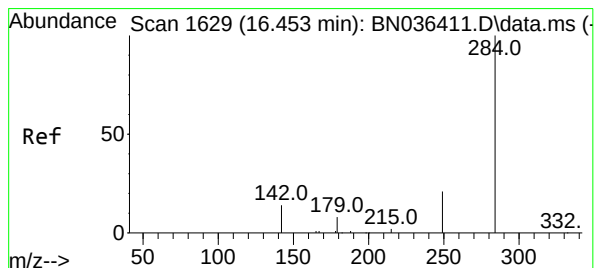
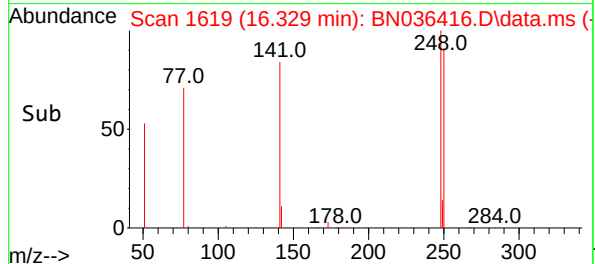
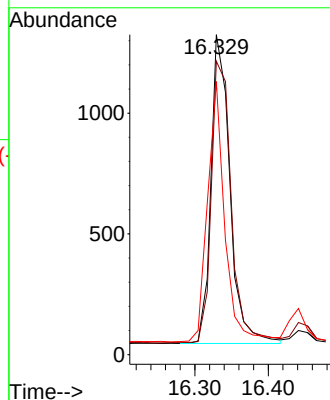
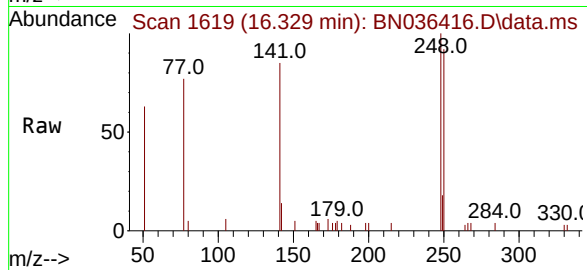




#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 16.329 min Scan# 1619
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

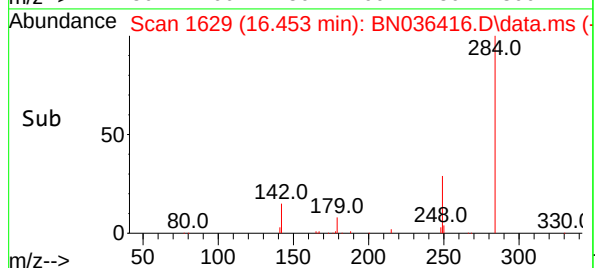
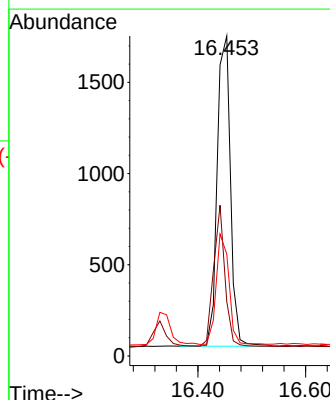
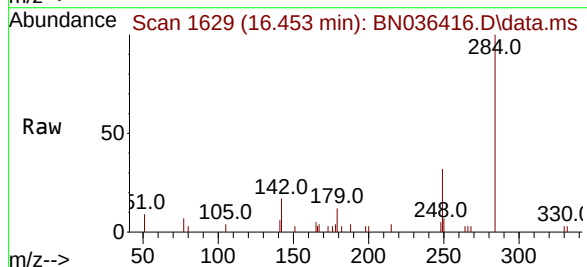
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

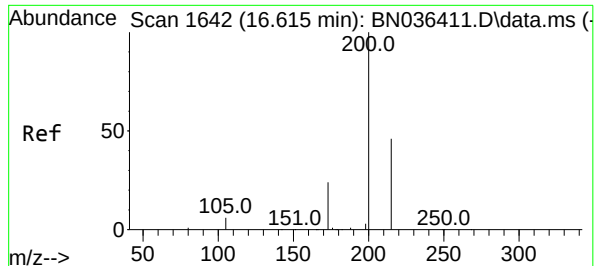
Tgt Ion:248 Resp: 2290
Ion Ratio Lower Upper
248 100
250 91.7 76.1 114.1
141 85.4 71.7 107.5



#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.453 min Scan# 1629
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:284 Resp: 2904
Ion Ratio Lower Upper
284 100
142 39.4 33.4 50.0
249 34.2 28.6 43.0

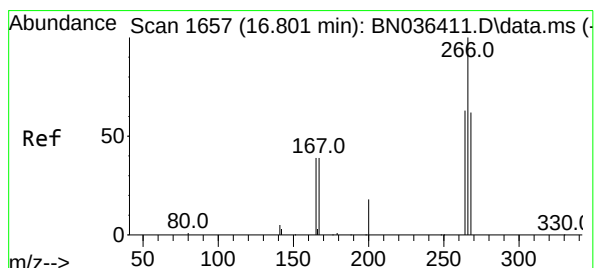
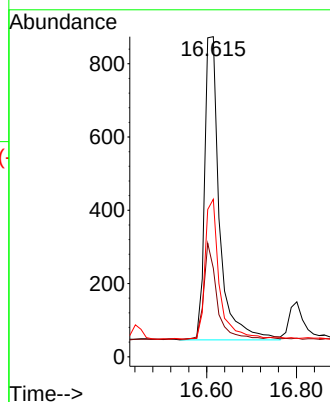
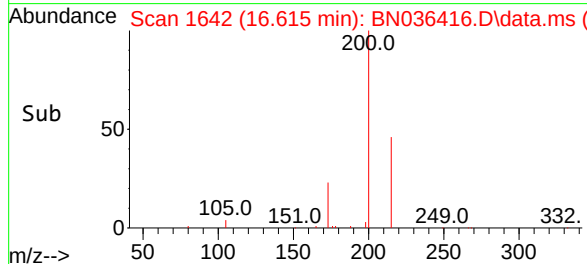
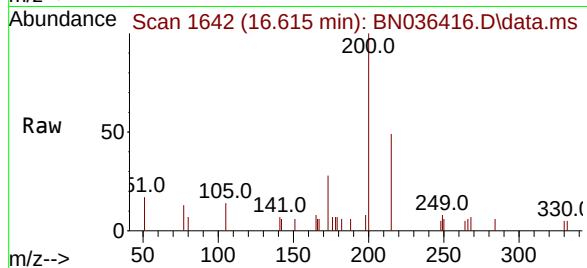




#23
Atrazine
Concen: 0.396 ng
RT: 16.615 min Scan# 1642
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

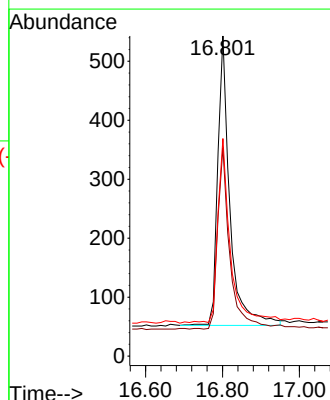
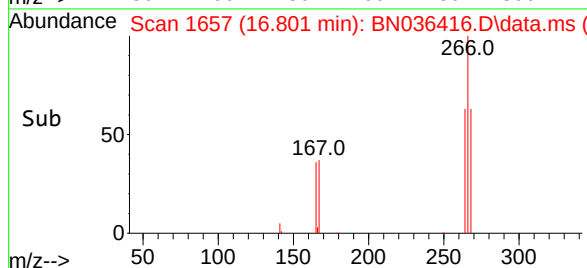
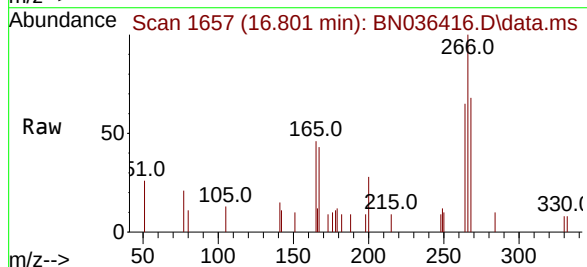
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

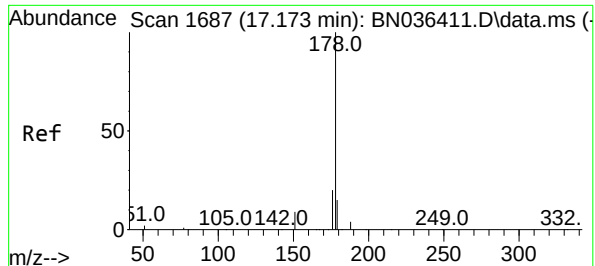
Tgt Ion	Ratio	Lower	Upper
200	100		
173	27.7	23.2	34.8
215	49.2	40.0	60.0



#24
Pentachlorophenol
Concen: 0.316 ng
RT: 16.801 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.2	50.6	76.0
268	63.9	51.9	77.9

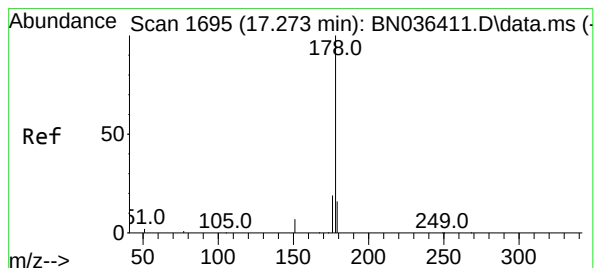
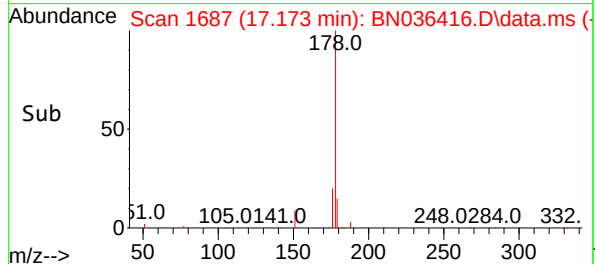
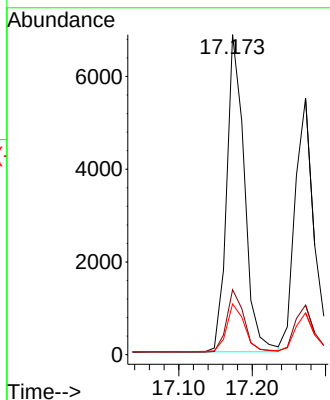
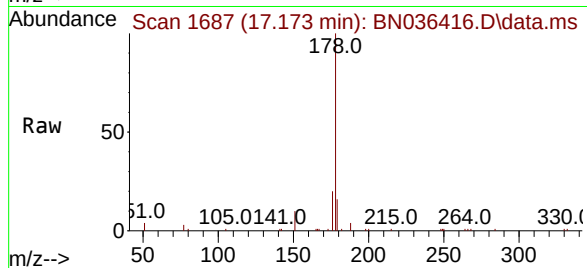




#25
Phenanthrene
Concen: 0.408 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

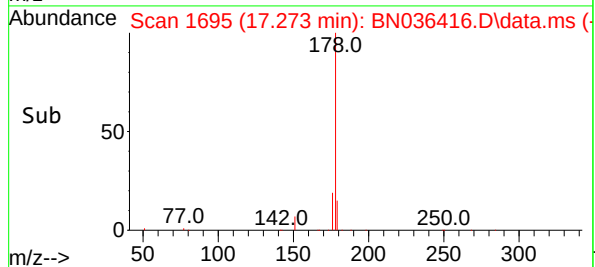
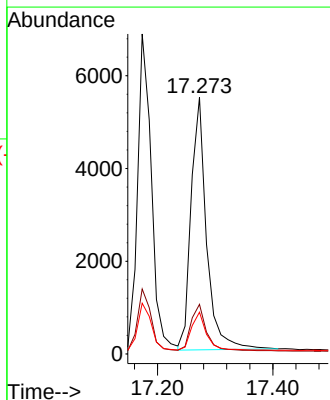
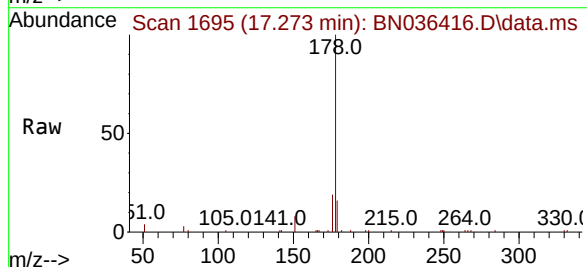
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

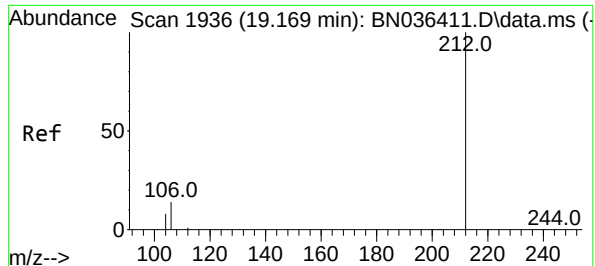
Tgt Ion:178 Resp: 11446
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.3 12.4 18.6



#26
Anthracene
Concen: 0.411 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:178 Resp: 10171
Ion Ratio Lower Upper
178 100
176 18.8 14.9 22.3
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.379 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

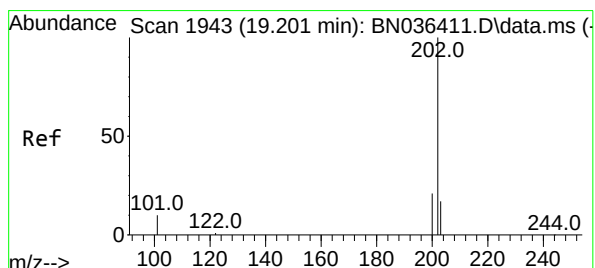
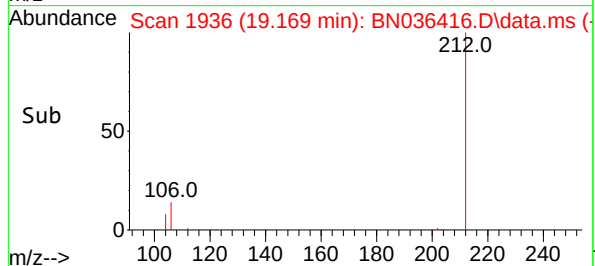
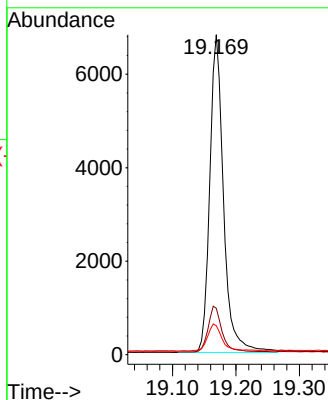
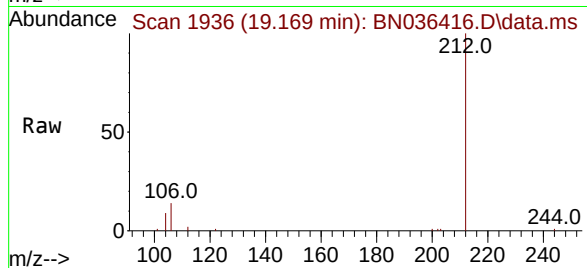
Tgt Ion:212 Resp: 10243

Ion Ratio Lower Upper

212 100

106 14.6 11.5 17.3

104 8.6 7.1 10.7



#28

Fluoranthene

Concen: 0.389 ng

RT: 19.197 min Scan# 1942

Delta R.T. -0.005 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

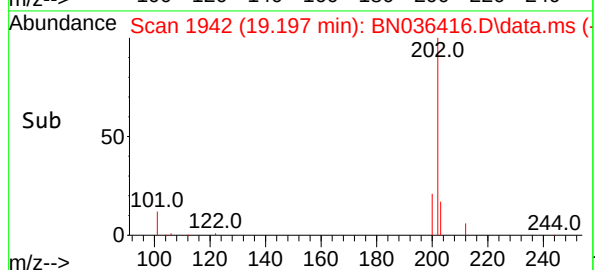
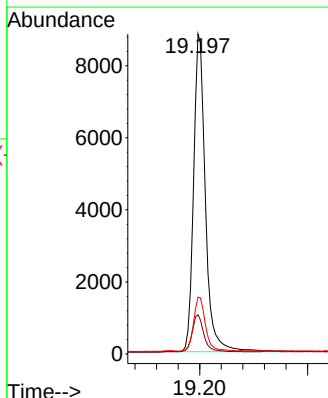
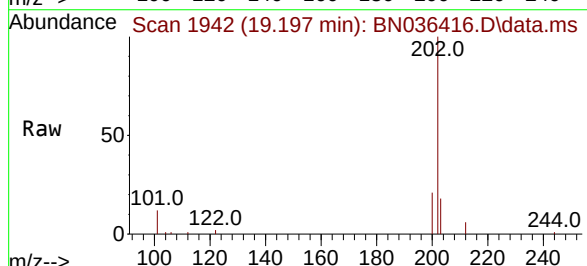
Tgt Ion:202 Resp: 13415

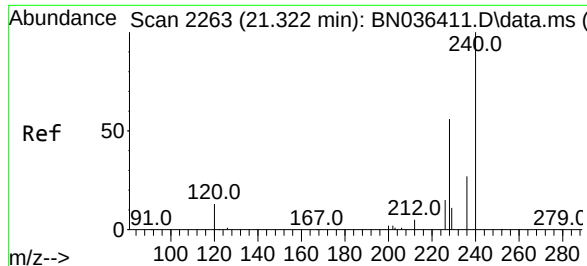
Ion Ratio Lower Upper

202 100

101 11.4 9.2 13.8

203 16.9 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

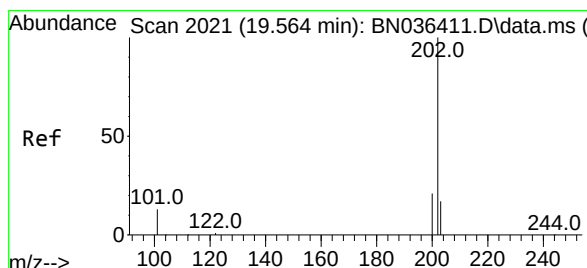
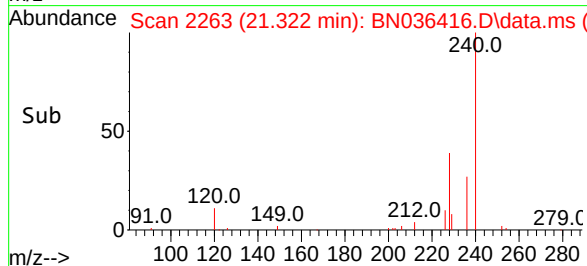
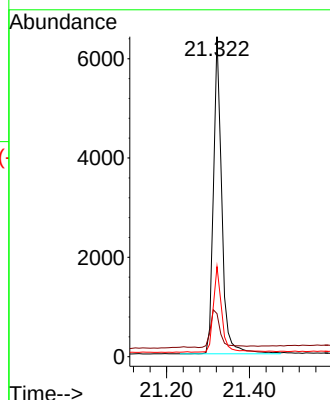
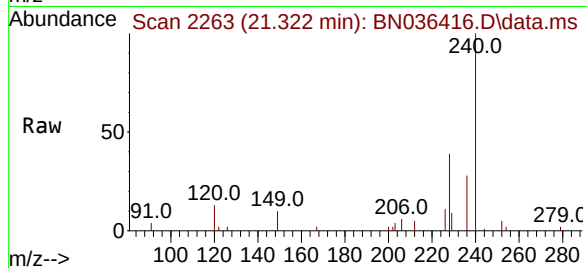
Tgt Ion:240 Resp: 8903

Ion Ratio Lower Upper

240 100

120 13.4 13.3 19.9

236 28.2 23.0 34.6



#30

Pyrene

Concen: 0.405 ng

RT: 19.559 min Scan# 2020

Delta R.T. -0.005 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

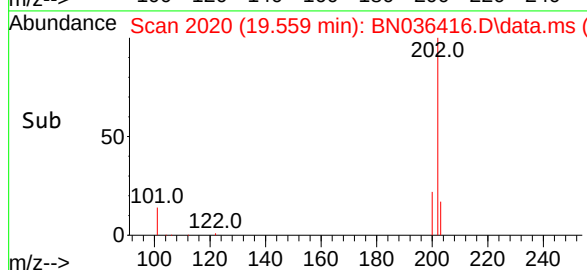
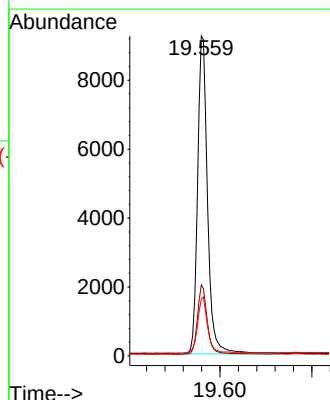
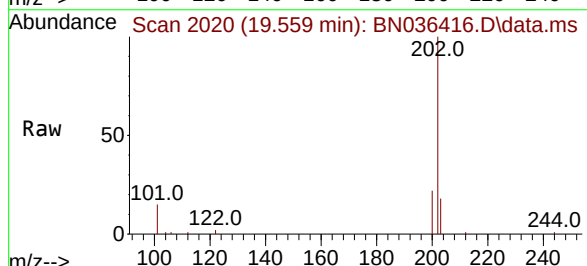
Tgt Ion:202 Resp: 13881

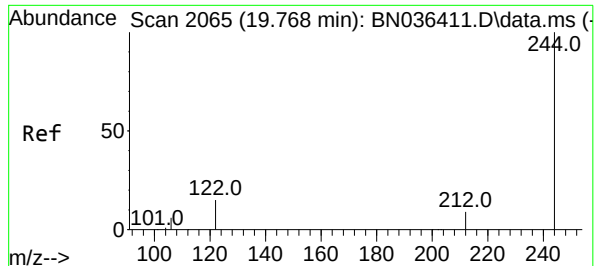
Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

203 17.4 13.9 20.9

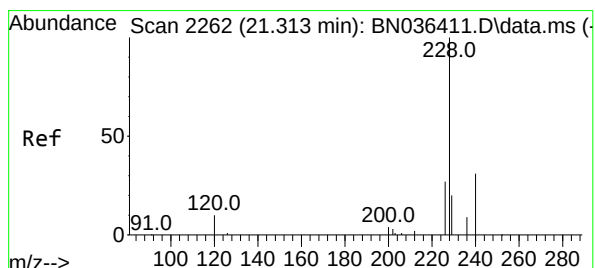
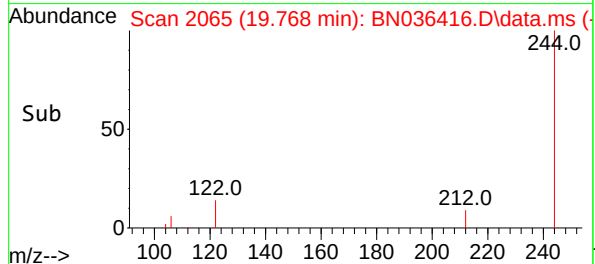
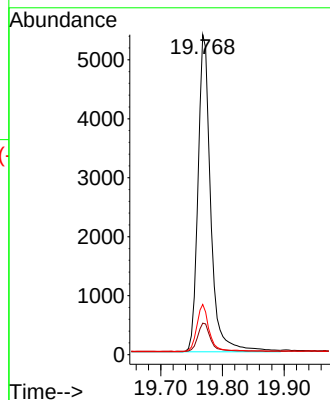
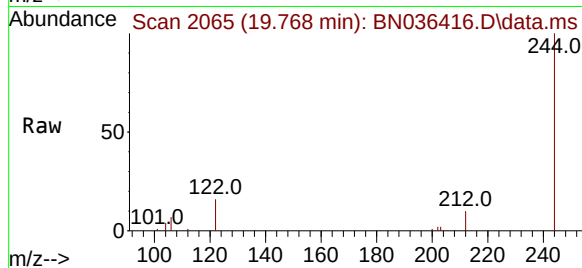




#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.768 min Scan# 2065
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

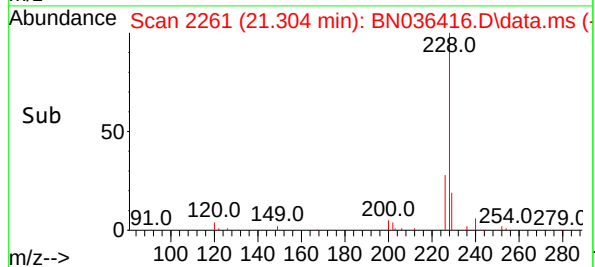
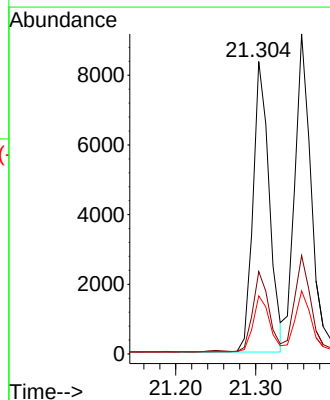
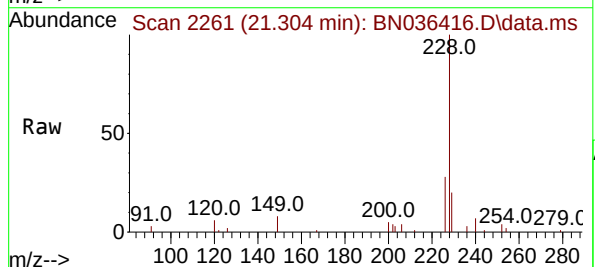
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

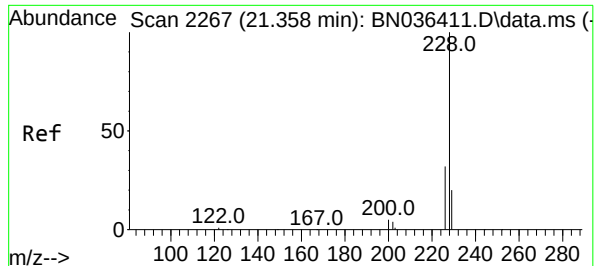
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	15.7	12.8	19.2



#32
Benzo(a)anthracene
Concen: 0.403 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.009 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.2	33.2
229	19.9	16.5	24.7





#33

Chrysene

Concen: 0.423 ng

RT: 21.357 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

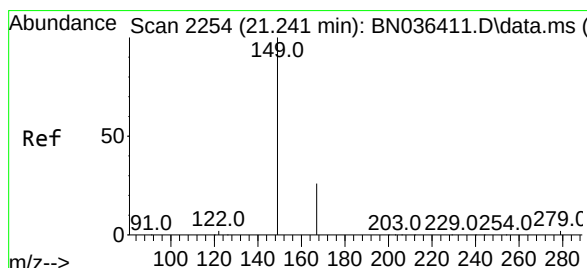
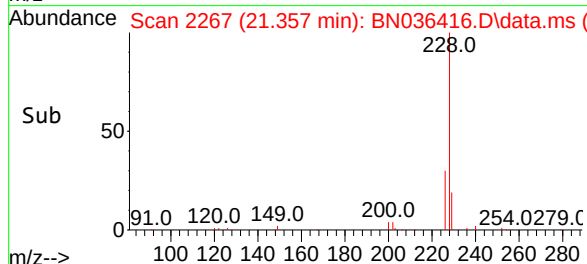
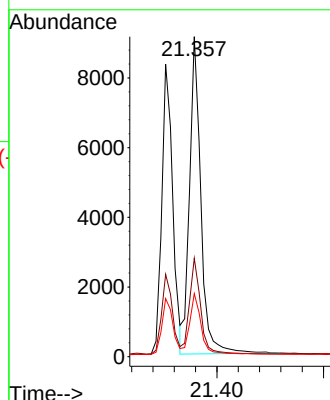
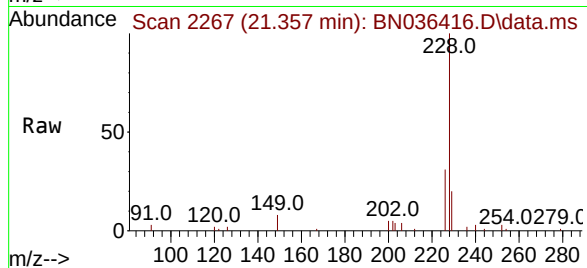
Tgt Ion:228 Resp: 13425

Ion Ratio Lower Upper

228 100

226 30.7 25.5 38.3

229 19.7 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.383 ng

RT: 21.241 min Scan# 2254

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

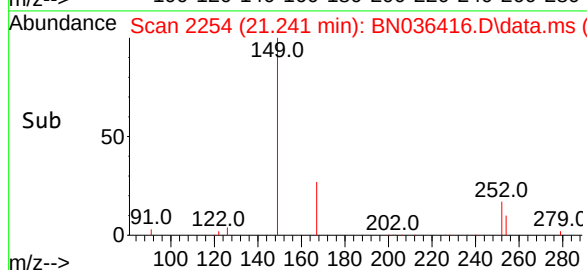
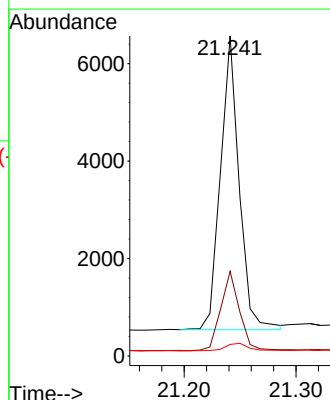
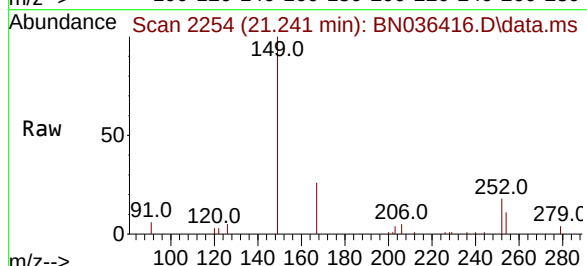
Tgt Ion:149 Resp: 6985

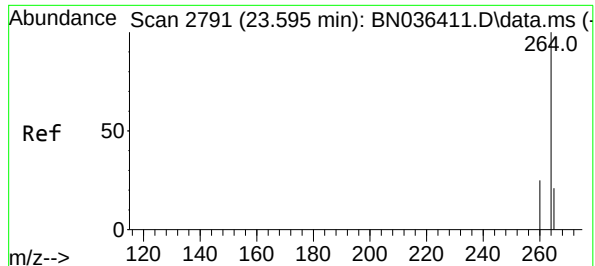
Ion Ratio Lower Upper

149 100

167 27.5 21.2 31.8

279 3.5 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.592 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036416.D

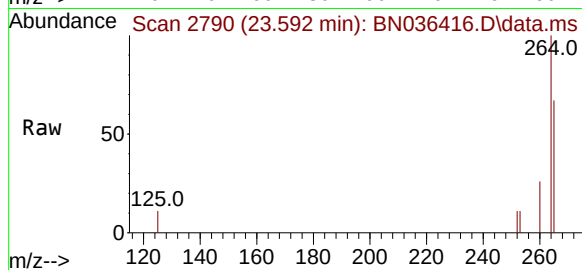
Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025



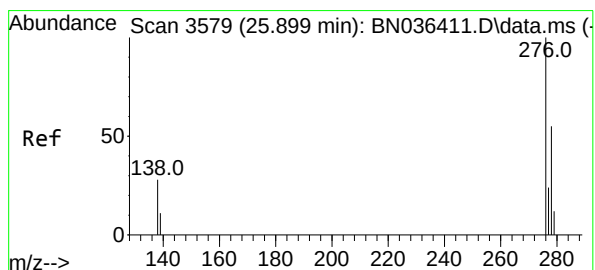
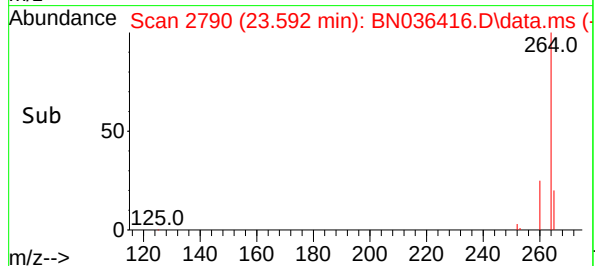
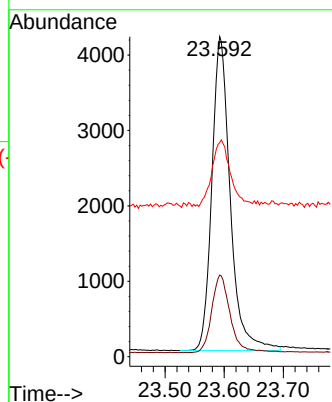
Tgt Ion:264 Resp: 8977

Ion Ratio Lower Upper

264 100

260 25.5 20.9 31.3

265 66.9 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.438 ng

RT: 25.896 min Scan# 3578

Delta R.T. -0.003 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

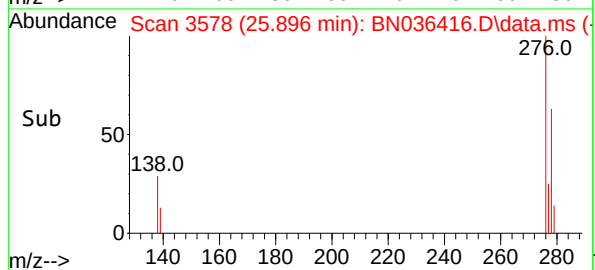
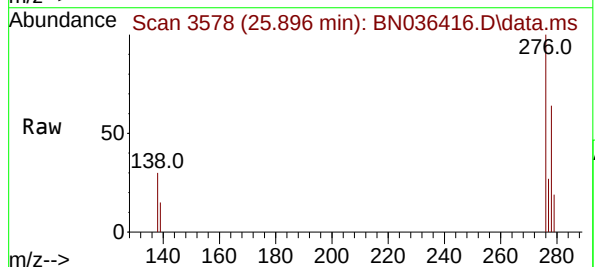
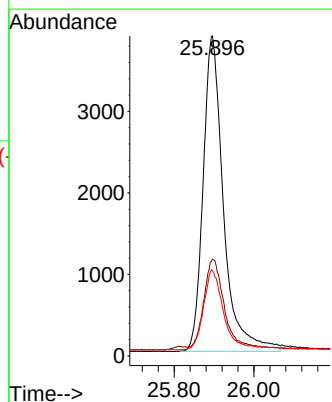
Tgt Ion:276 Resp: 13738

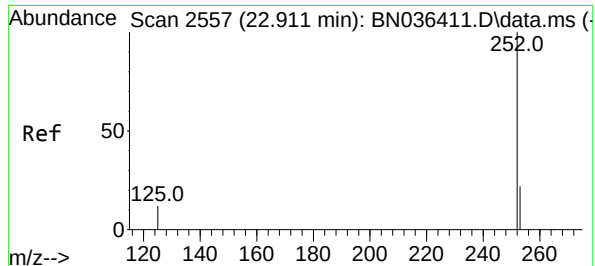
Ion Ratio Lower Upper

276 100

138 27.6 22.2 33.2

277 24.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.415 ng

RT: 22.908 min Scan# 2556

Delta R.T. -0.003 min

Lab File: BN036416.D

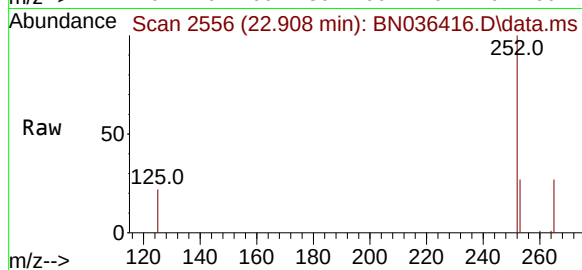
Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025



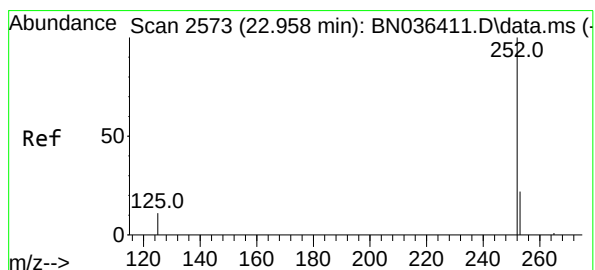
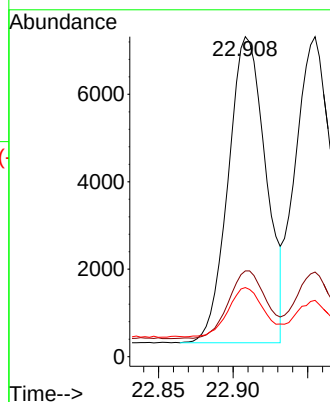
Tgt Ion:252 Resp: 12283

Ion Ratio Lower Upper

252 100

253 26.8 21.9 32.9

125 21.6 15.0 22.6



#38

Benzo(k)fluoranthene

Concen: 0.430 ng

RT: 22.955 min Scan# 2572

Delta R.T. -0.003 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

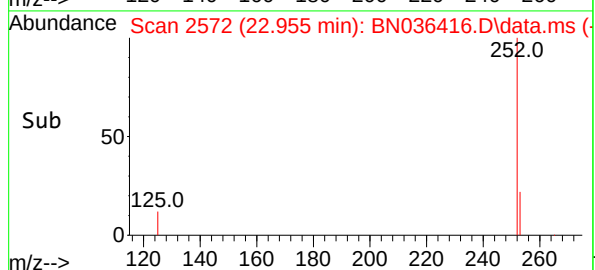
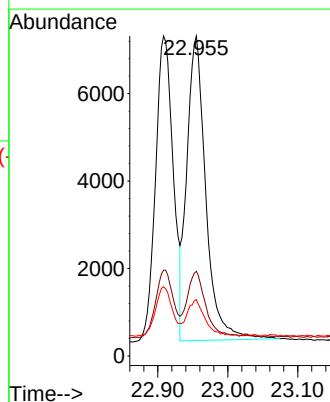
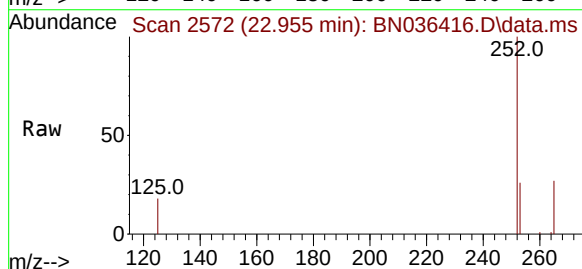
Tgt Ion:252 Resp: 13099

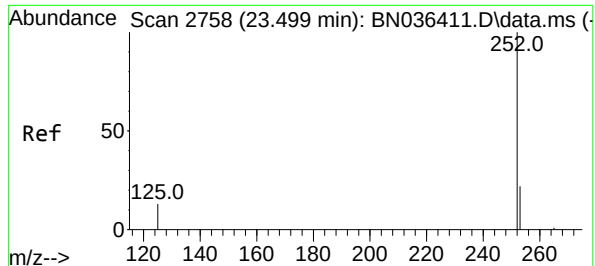
Ion Ratio Lower Upper

252 100

253 26.5 22.2 33.4

125 17.6 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.454 ng

RT: 23.493 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

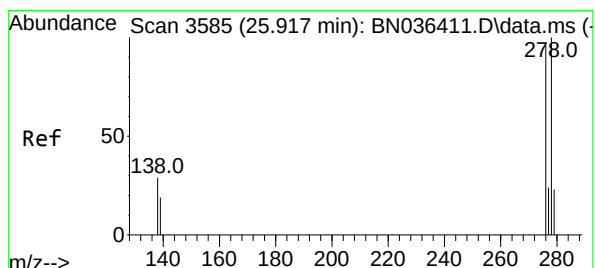
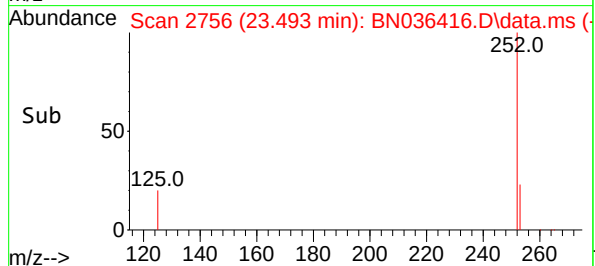
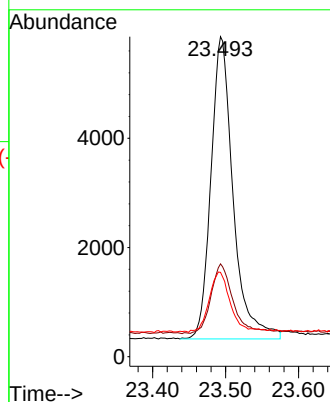
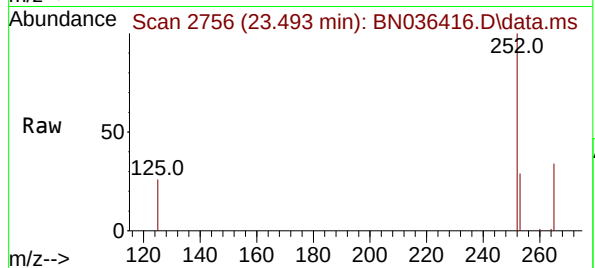
Tgt Ion:252 Resp: 11703

Ion Ratio Lower Upper

252 100

253 29.0 24.4 36.6

125 26.4 18.2 27.2



#40

Dibenzo(a,h)anthracene

Concen: 0.427 ng

RT: 25.908 min Scan# 3582

Delta R.T. -0.009 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

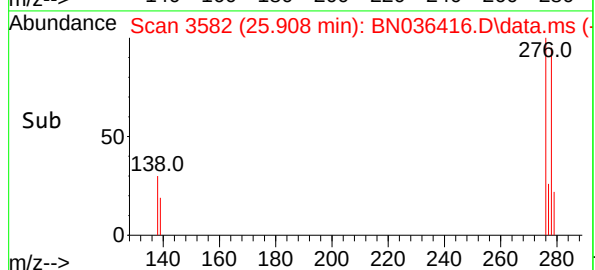
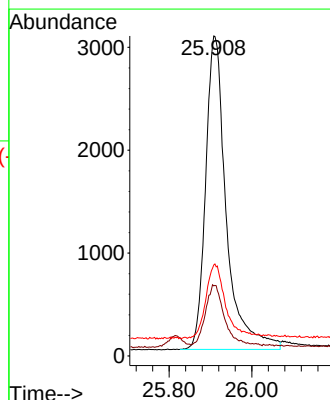
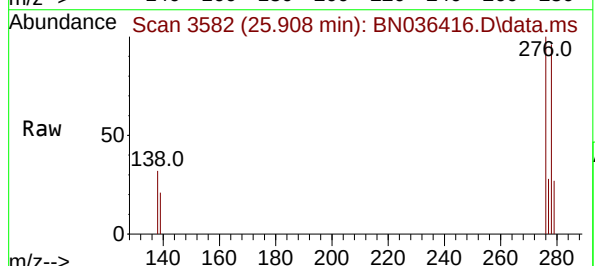
Tgt Ion:278 Resp: 10585

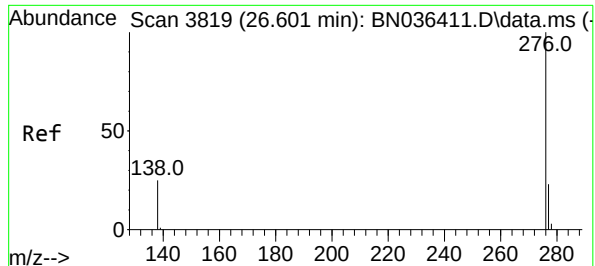
Ion Ratio Lower Upper

278 100

139 21.9 18.5 27.7

279 28.4 24.8 37.2





#41

Benzo(g,h,i)perylene

Concen: 0.389 ng

RT: 26.595 min Scan# 3817

Delta R.T. -0.006 min

Lab File: BN036416.D

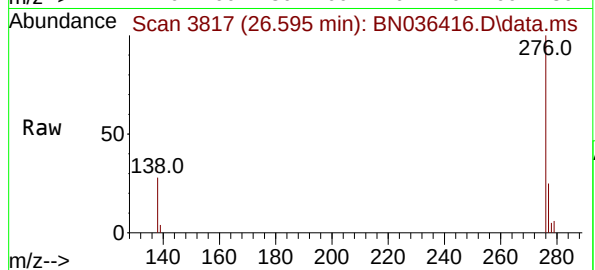
Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025



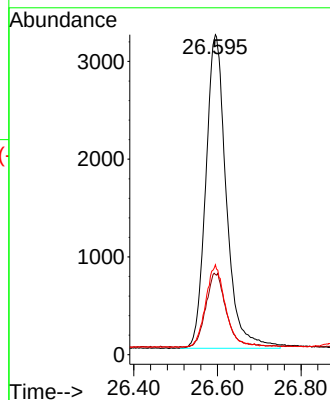
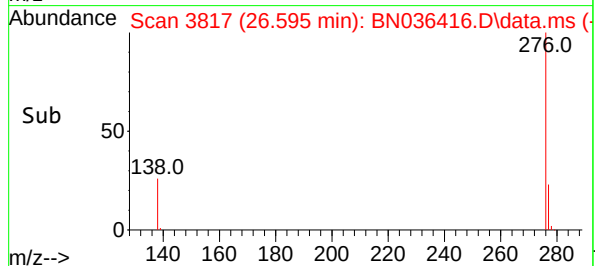
Tgt Ion:276 Resp: 10921

Ion Ratio Lower Upper

276 100

277 25.1 20.7 31.1

138 28.1 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036416.D
 Acq On : 10 Feb 2025 16:36
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

Quant Time: Feb 11 01:25:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 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	123	0.00
2	1,4-Dioxane	0.438	0.449	-2.5	127	0.00
3	n-Nitrosodimethylamine	0.760	0.732	3.7	118	0.00
4 S	2-Fluorophenol	0.945	0.877	7.2	115	0.00
5 S	Phenol-d6	1.109	0.961	13.3	114	0.00
6	bis(2-Chloroethyl)ether	1.160	1.187	-2.3	134	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	122	0.00
8 S	Nitrobenzene-d5	0.395	0.354	10.4	118	0.00
9	Naphthalene	1.154	1.121	2.9	122	0.00
10	Hexachlorobutadiene	0.281	0.284	-1.1	122	0.00
11 SURR	2-Methylnaphthalene-d10	0.615	0.598	2.8	121	0.00
12	2-Methylnaphthalene	0.757	0.764	-0.9	126	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	120	0.00
14 S	2,4,6-Tribromophenol	0.198	0.165	16.7	106	0.00
15 S	2-Fluorobiphenyl	1.504	1.529	-1.7	133	0.00
16	Acenaphthylene	1.767	1.863	-5.4	132	0.00
17	Acenaphthene	1.180	1.201	-1.8	126	0.00
18	Fluorene	1.680	1.669	0.7	121	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00
20	4,6-Dinitro-2-methylphenol	0.078	0.068	12.8	116	0.00
21	4-Bromophenyl-phenylether	0.239	0.236	1.3	119	0.00
22	Hexachlorobenzene	0.295	0.299	-1.4	123	0.00
23	Atrazine	0.199	0.197	1.0	123	0.00
24	Pentachlorophenol	0.140	0.111	20.7	106	0.00
25	Phenanthrene	1.156	1.178	-1.9	126	0.00
26	Anthracene	1.020	1.047	-2.6	126	0.00
27 SURR	Fluoranthene-d10	1.112	1.054	5.2	116	0.00
28	Fluoranthene	1.421	1.381	2.8	119	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	119	0.00
30	Pyrene	1.541	1.559	-1.2	121	0.00
31 S	Terphenyl-d14	0.854	0.870	-1.9	121	0.00
32	Benzo(a)anthracene	1.316	1.328	-0.9	122	0.00
33	Chrysene	1.425	1.508	-5.8	132	0.00
34	Bis(2-ethylhexyl)phthalate	0.820	0.785	4.3	120	0.00
35 I	Perylene-d12	1.000	1.000	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	1.398	1.530	-9.4	129	0.00
37	Benzo(b)fluoranthene	1.317	1.368	-3.9	126	0.00
38	Benzo(k)fluoranthene	1.356	1.459	-7.6	124	0.00
39 C	Benzo(a)pyrene	1.150	1.304	-13.4	137	0.00
40	Dibenzo(a,h)anthracene	1.103	1.179	-6.9	127	0.00
41	Benzo(g,h,i)perylene	1.250	1.217	2.6	113	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036416.D
 Acq On : 10 Feb 2025 16:36
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

Quant Time: Feb 11 01:25:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 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	123	0.00
2	1,4-Dioxane	0.400	0.410	-2.5	127	0.00
3	n-Nitrosodimethylamine	0.400	0.385	3.8	118	0.00
4 S	2-Fluorophenol	0.400	0.371	7.3	115	0.00
5 S	Phenol-d6	0.400	0.347	13.3	114	0.00
6	bis(2-Chloroethyl)ether	0.400	0.409	-2.2	134	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	122	0.00
8 S	Nitrobenzene-d5	0.400	0.359	10.3	118	0.00
9	Naphthalene	0.400	0.389	2.8	122	0.00
10	Hexachlorobutadiene	0.400	0.404	-1.0	122	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.389	2.8	121	0.00
12	2-Methylnaphthalene	0.400	0.404	-1.0	126	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	120	0.00
14 S	2,4,6-Tribromophenol	0.400	0.332	17.0	106	0.00
15 S	2-Fluorobiphenyl	0.400	0.407	-1.7	133	0.00
16	Acenaphthylene	0.400	0.422	-5.5	132	0.00
17	Acenaphthene	0.400	0.407	-1.7	126	0.00
18	Fluorene	0.400	0.397	0.8	121	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	117	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.348	13.0	116	0.00
21	4-Bromophenyl-phenylether	0.400	0.395	1.3	119	0.00
22	Hexachlorobenzene	0.400	0.406	-1.5	123	0.00
23	Atrazine	0.400	0.396	1.0	123	0.00
24	Pentachlorophenol	0.400	0.316	21.0	106	0.00
25	Phenanthrene	0.400	0.408	-2.0	126	0.00
26	Anthracene	0.400	0.411	-2.7	126	0.00
27 SURR	Fluoranthene-d10	0.400	0.379	5.3	116	0.00
28	Fluoranthene	0.400	0.389	2.8	119	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	119	0.00
30	Pyrene	0.400	0.405	-1.3	121	0.00
31 S	Terphenyl-d14	0.400	0.407	-1.7	121	0.00
32	Benzo(a)anthracene	0.400	0.403	-0.8	122	0.00
33	Chrysene	0.400	0.423	-5.7	132	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.383	4.3	120	0.00
35 I	Perylene-d12	0.400	0.400	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.438	-9.5	129	0.00
37	Benzo(b)fluoranthene	0.400	0.415	-3.7	126	0.00
38	Benzo(k)fluoranthene	0.400	0.430	-7.5	124	0.00
39 C	Benzo(a)pyrene	0.400	0.454	-13.5	137	0.00
40	Dibenzo(a,h)anthracene	0.400	0.427	-6.7	127	0.00
41	Benzo(g,h,i)perylene	0.400	0.389	2.8	113	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.: Q1477 SAS No.: Q1477 SDG No.: Q1477

Instrument ID: BNA_N Calibration Date/Time: 03/05/2025 13:31

Lab File ID: BN036524.D Init. Calib. Date(s): 02/10/2025 02/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:25 16:00

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.615	0.591		-3.9	20.0
Fluoranthene-d10	1.112	1.110		-0.2	20.0
2-Fluorophenol	0.945	0.961		1.7	20.0
Phenol-d6	1.109	1.154		4.1	20.0
Nitrobenzene-d5	0.395	0.401		1.5	20.0
2-Fluorobiphenyl	1.504	2.119		40.9	20.0
2,4,6-Tribromophenol	0.198	0.158		-20.2	20.0
Terphenyl-d14	0.854	0.840		-1.6	20.0
1,4-Dioxane	0.438	0.436		-0.5	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
 Data File : BN036524.D
 Acq On : 05 Mar 2025 13:31
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 05 16:09:24 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	2348	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5891	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3887	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	7928	0.400	ng	0.00
29) Chrysene-d12	21.295	240	7302	0.400	ng	0.00
35) Perylene-d12	23.551	264	7292	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	2256	0.406	ng	0.00
5) Phenol-d6	6.901	99	2710	0.416	ng	0.00
8) Nitrobenzene-d5	8.875	82	2360	0.406	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	3483	0.385	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	613	0.318	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	8237	0.564	ng	0.00
27) Fluoranthene-d10	19.141	212	8803	0.399	ng	0.00
31) Terphenyl-d14	19.745	244	6133	0.393	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.247	88	1024	0.399	ng	92
3) n-Nitrosodimethylamine	3.550	42	1908	0.428	ng	# 98
6) bis(2-Chloroethyl)ether	7.154	93	2868	0.421	ng	98
9) Naphthalene	10.562	128	6578	0.387	ng	100
10) Hexachlorobutadiene	10.850	225	1524	0.368	ng	# 99
12) 2-Methylnaphthalene	12.182	142	4220	0.379	ng	100
16) Acenaphthylene	14.078	152	6474	0.377	ng	100
17) Acenaphthene	14.430	154	4257	0.371	ng	98
18) Fluorene	15.414	166	5822	0.357	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	494	0.318	ng	94
21) 4-Bromophenyl-phenylether	16.305	248	1776	0.376	ng	93
22) Hexachlorobenzene	16.416	284	2169	0.371	ng	98
23) Atrazine	16.578	200	1528	0.387	ng	95
24) Pentachlorophenol	16.764	266	1040	0.375	ng	98
25) Phenanthrene	17.149	178	9019	0.394	ng	99
26) Anthracene	17.235	178	8093	0.400	ng	99
28) Fluoranthene	19.174	202	11196	0.398	ng	98
30) Pyrene	19.536	202	11526	0.410	ng	99
32) Benzo(a)anthracene	21.277	228	9909	0.412	ng	98
33) Chrysene	21.331	228	10684	0.411	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	7086	0.473	ng	100
36) Indeno(1,2,3-cd)pyrene	25.838	276	9728	0.382	ng	100
37) Benzo(b)fluoranthene	22.873	252	10291m	0.429	ng	
38) Benzo(k)fluoranthene	22.917	252	9771	0.395	ng	99
39) Benzo(a)pyrene	23.455	252	8631	0.412	ng	# 91
40) Dibenzo(a,h)anthracene	25.852	278	7487	0.372	ng	99
41) Benzo(g,h,i)perylene	26.528	276	8456	0.371	ng	98

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

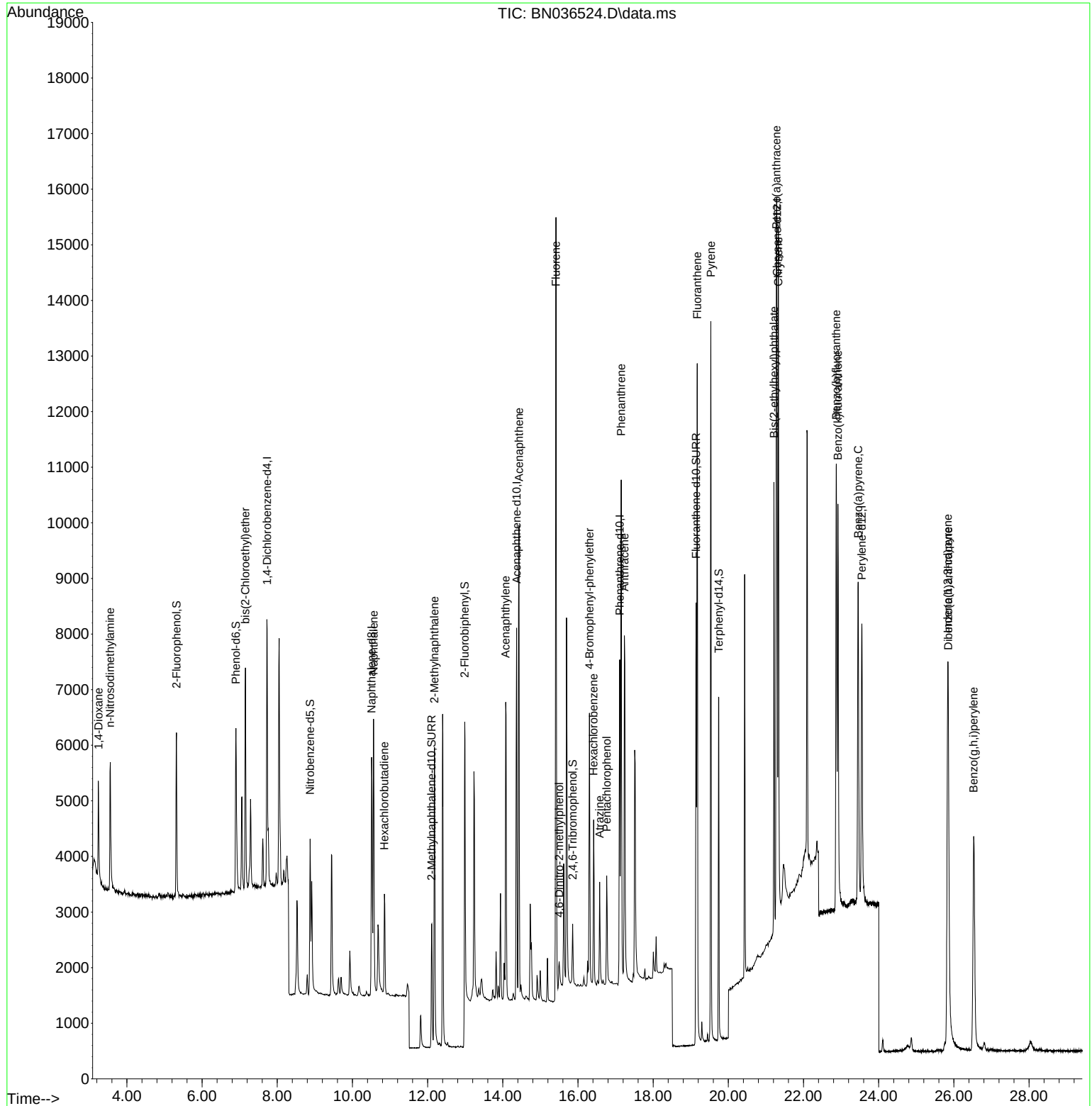
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
Data File : BN036524.D
Acq On : 05 Mar 2025 13:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

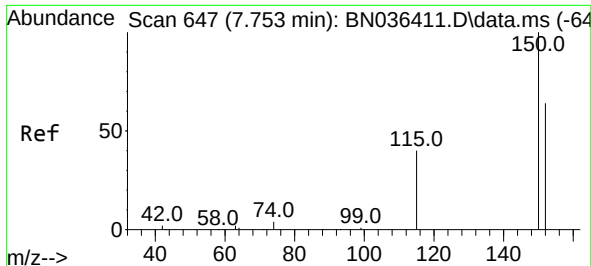
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 05 16:09:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration





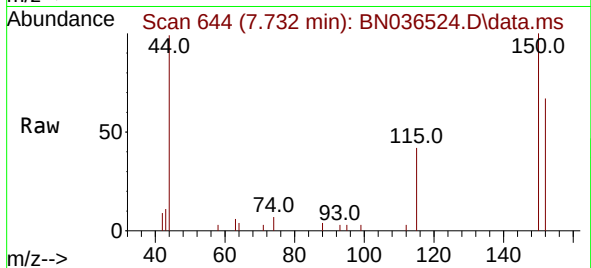
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.732 min Scan# 64
 Delta R.T. -0.000 min
 Lab File: BN036524.D
 Acq: 05 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

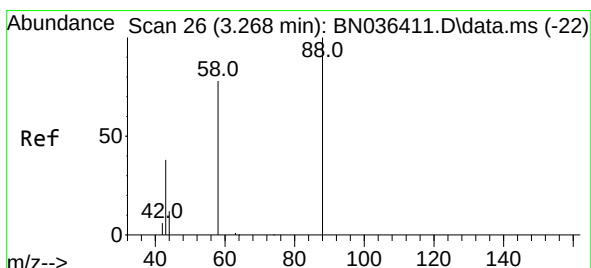
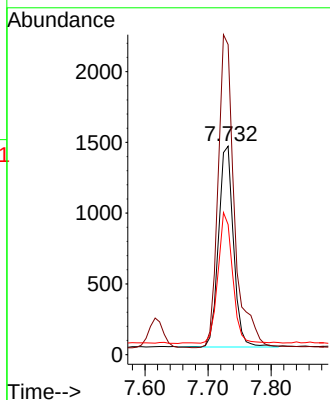
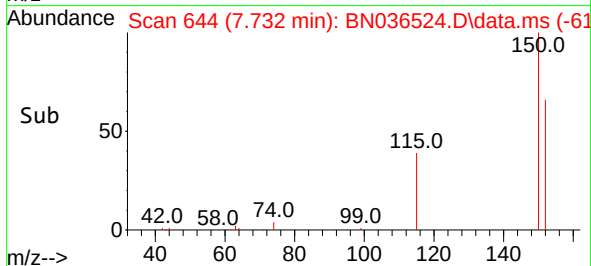


Tgt Ion:152 Resp: 2348
 Ion Ratio Lower Upper
 152 100
 150 148.7 123.7 185.5
 115 62.4 52.5 78.7

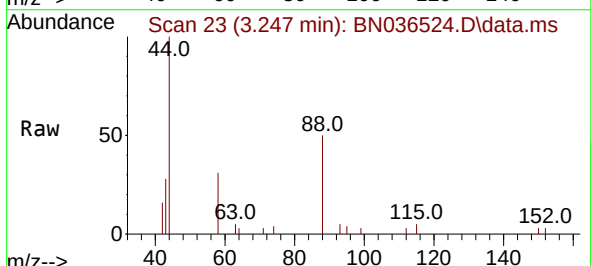
Manual Integrations

APPROVED

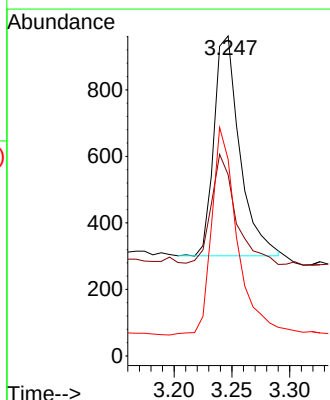
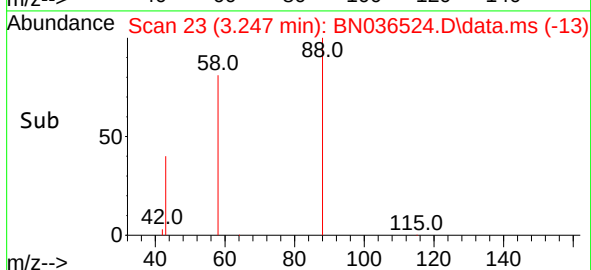
Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025

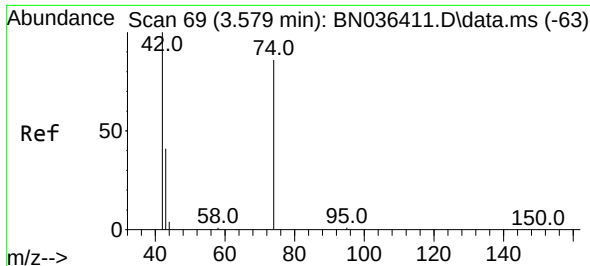


#2
 1,4-Dioxane
 Concen: 0.399 ng
 RT: 3.247 min Scan# 23
 Delta R.T. 0.000 min
 Lab File: BN036524.D
 Acq: 05 Mar 2025 13:31



Tgt Ion: 88 Resp: 1024
 Ion Ratio Lower Upper
 88 100
 43 47.9 33.7 50.5
 58 92.9 68.9 103.3





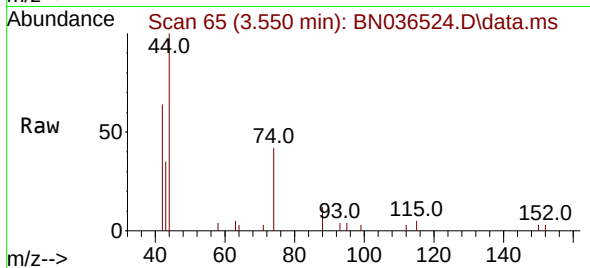
#3
n-Nitrosodimethylamine
Concen: 0.428 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

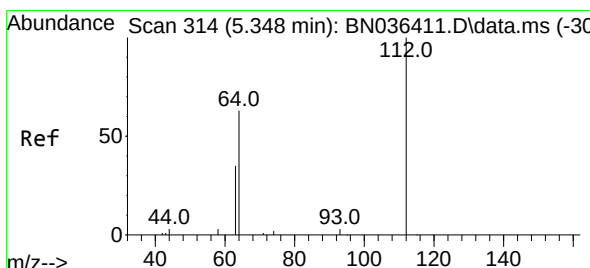
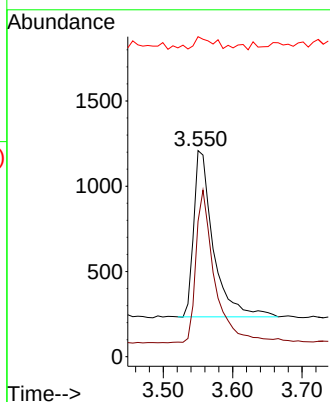
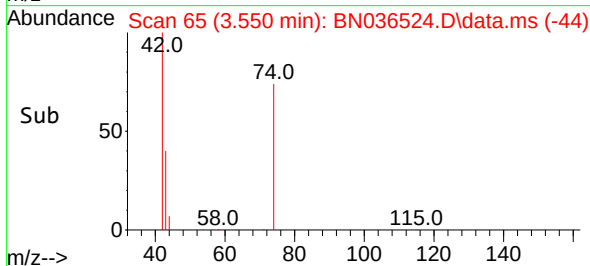


Tgt Ion: 42 Resp: 1908
Ion Ratio Lower Upper
42 100
74 88.8 71.8 107.6
44 7.0 7.8 11.6

Manual Integrations

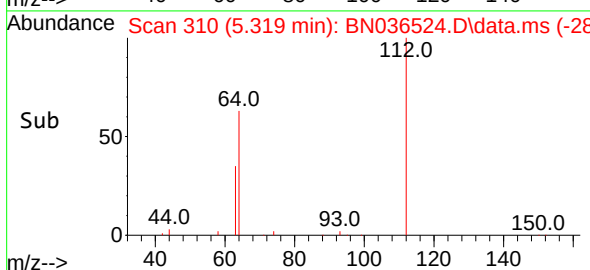
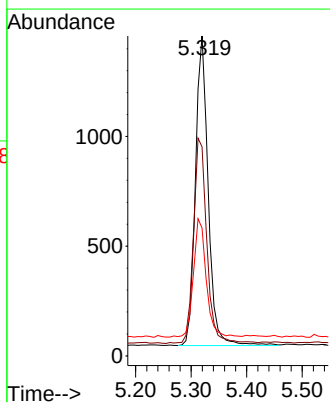
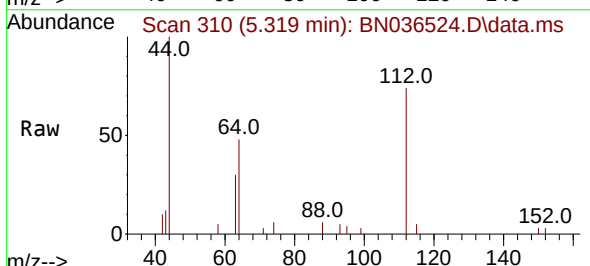
APPROVED

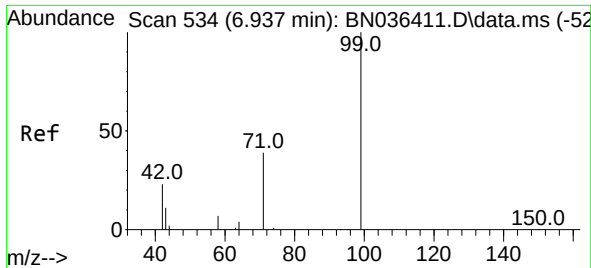
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#4
2-Fluorophenol
Concen: 0.406 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

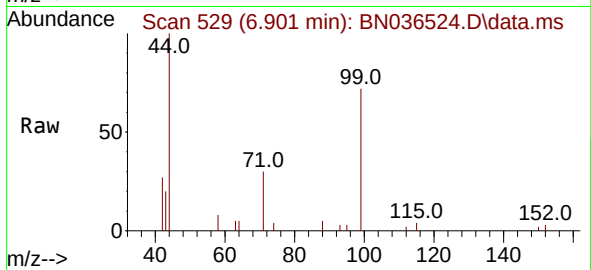
Tgt Ion:112 Resp: 2256
Ion Ratio Lower Upper
112 100
64 69.1 53.4 80.0
63 38.2 30.3 45.5





#5
Phenol-d6
Concen: 0.416 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

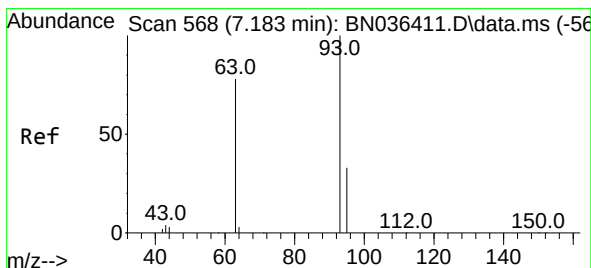
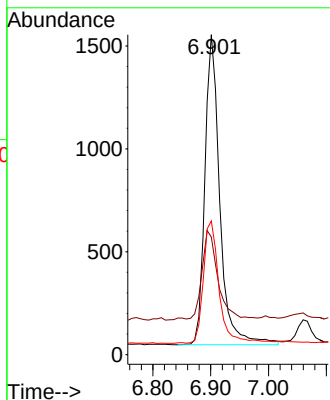
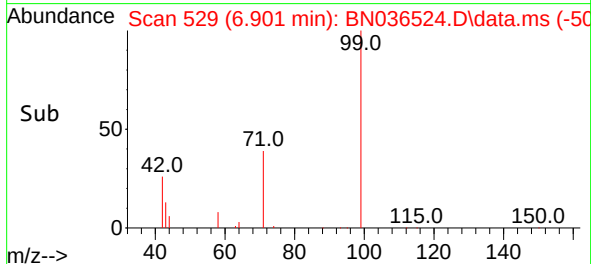
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 99 Resp: 2710
Ion Ratio Lower Upper
99 100
42 31.5 21.7 32.5
71 41.9 32.6 49.0

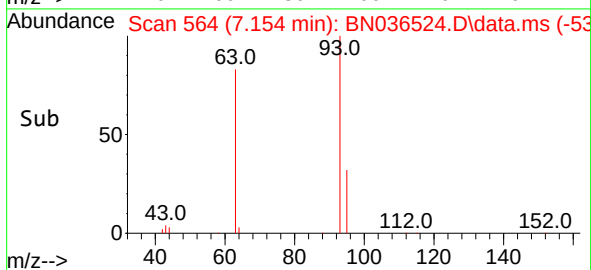
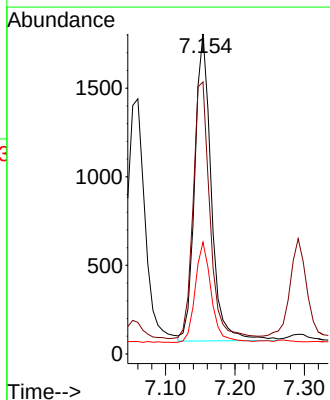
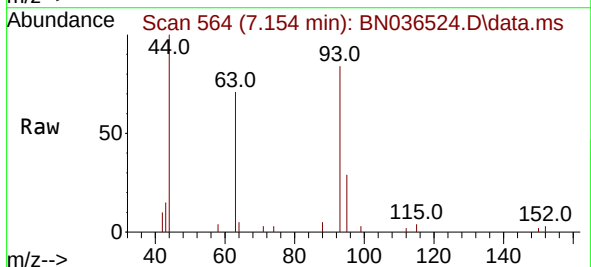
Manual Integrations
APPROVED

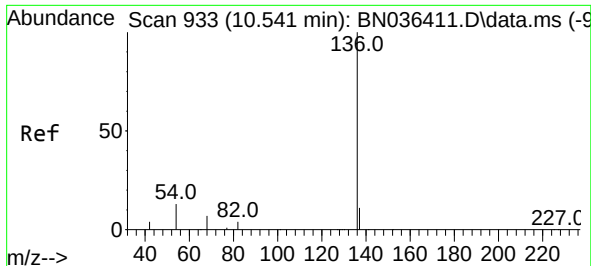
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.421 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion: 93 Resp: 2868
Ion Ratio Lower Upper
93 100
63 85.2 66.3 99.5
95 31.8 26.2 39.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

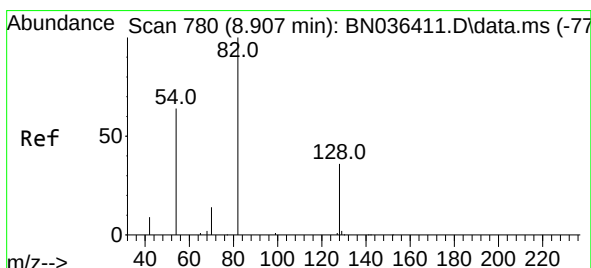
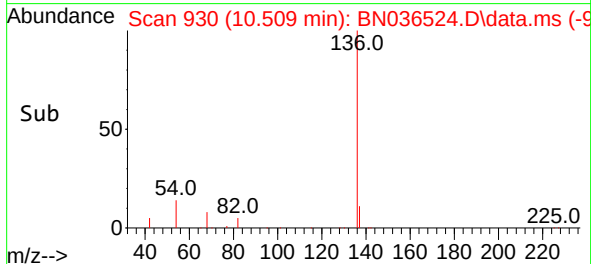
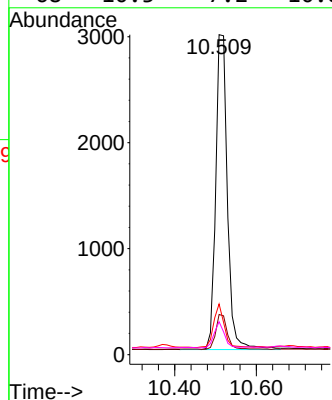
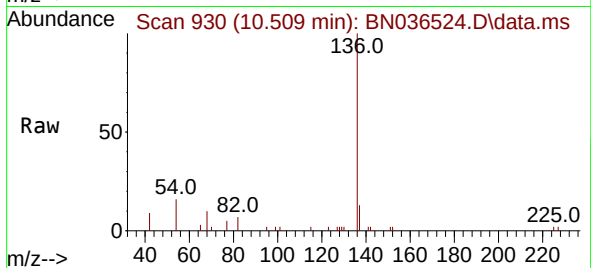
SSTDCCC0.4

Tgt Ion:136 Resp: 589
Ion Ratio Lower Upper
136 100
137 12.5 10.1 15.1
54 15.8 11.8 17.6
68 10.3 7.2 10.8

Manual Integrations

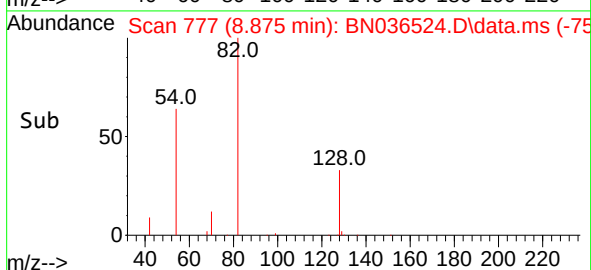
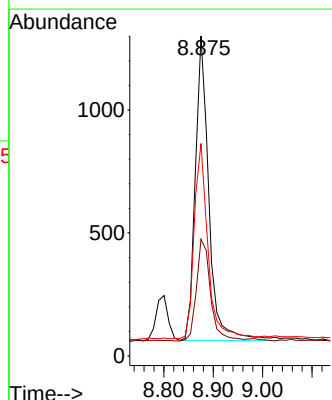
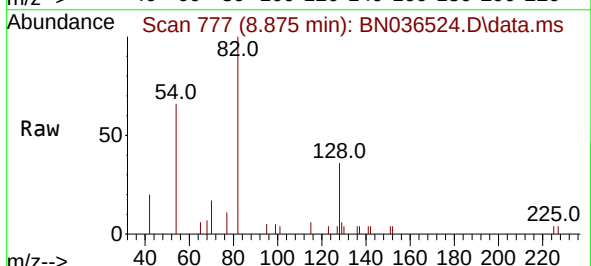
APPROVED

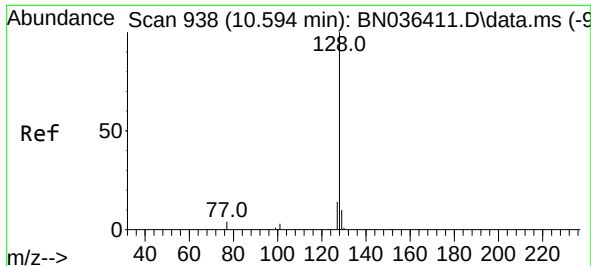
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#8
Nitrobenzene-d5
Concen: 0.406 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

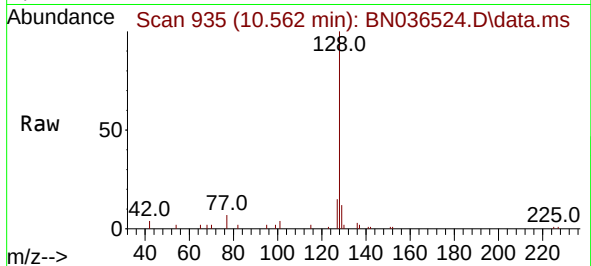
Tgt Ion: 82 Resp: 2360
Ion Ratio Lower Upper
82 100
128 36.4 31.9 47.9
54 66.4 53.1 79.7





#9
Naphthalene
Concen: 0.387 ng
RT: 10.562 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

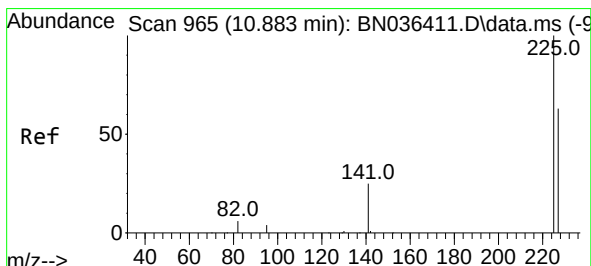
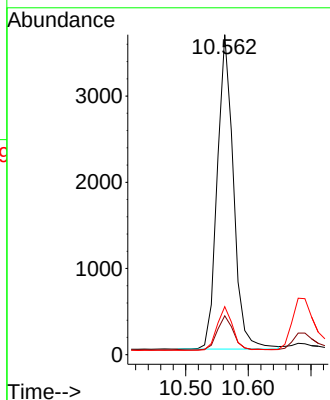
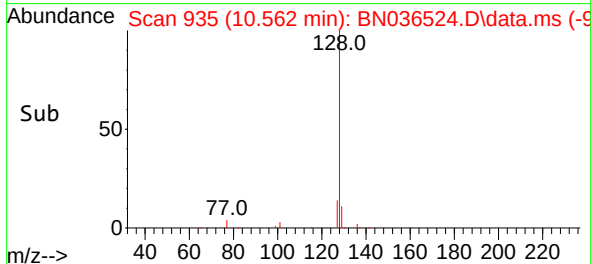
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:128 Resp: 6578
Ion Ratio Lower Upper
128 100
129 12.1 9.6 14.4
127 15.0 12.0 18.0

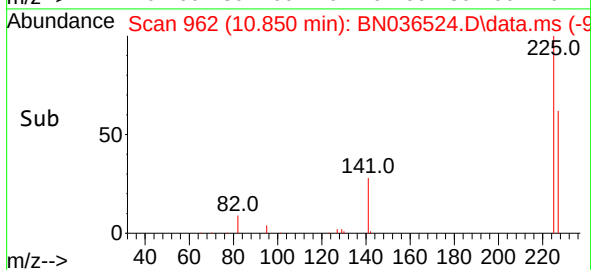
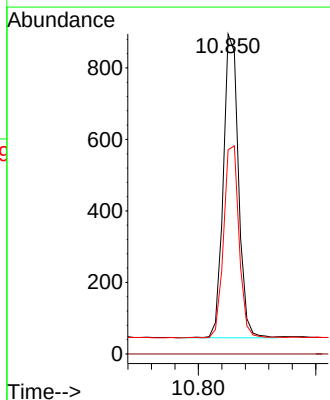
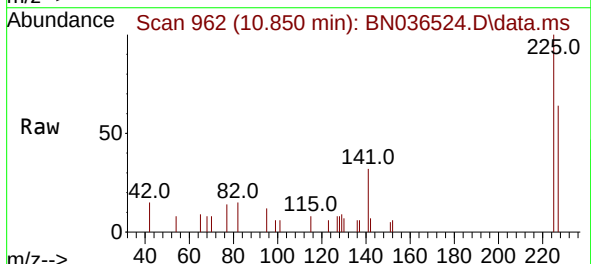
Manual Integrations
APPROVED

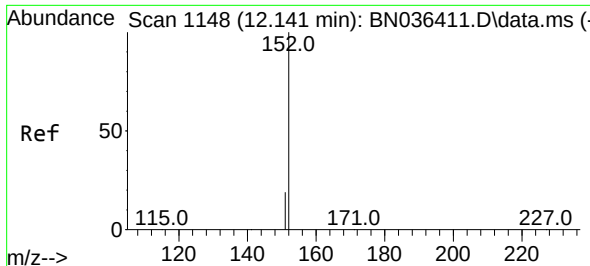
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#10
Hexachlorobutadiene
Concen: 0.368 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

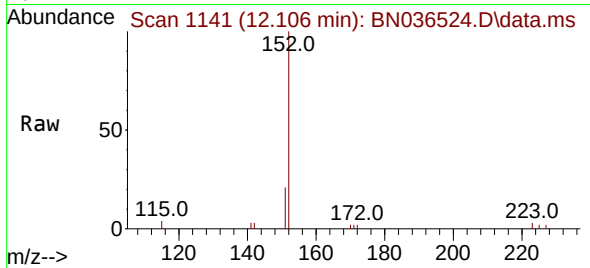
Tgt Ion:225 Resp: 1524
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.385 ng
RT: 12.106 min Scan# 1141
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

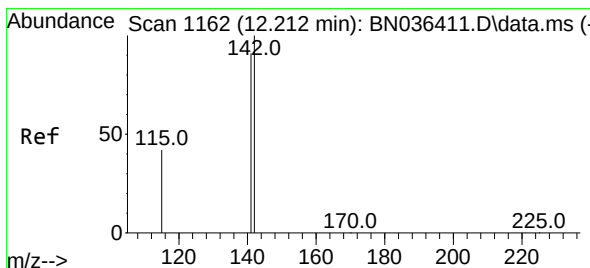
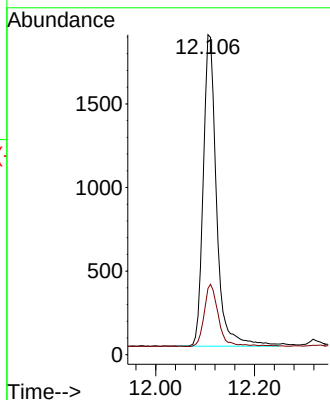
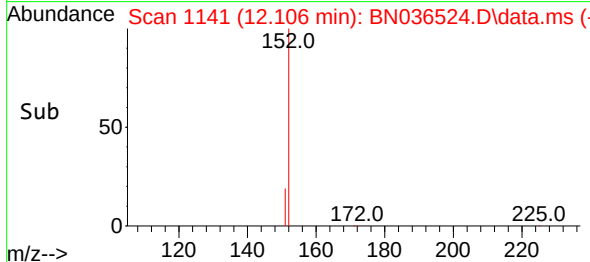
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



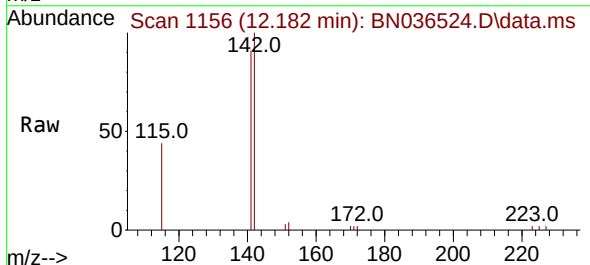
Tgt Ion:152 Resp: 348
Ion Ratio Lower Upper
152 100
151 21.2 16.6 25.0

Manual Integrations
APPROVED

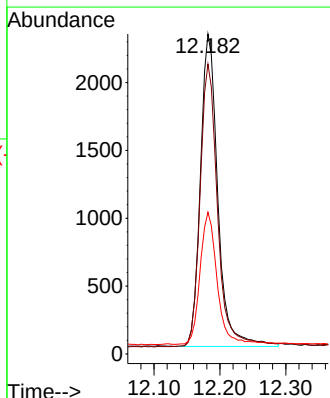
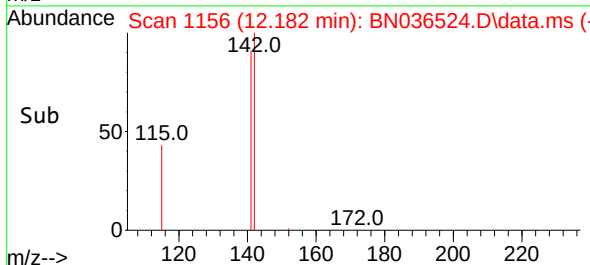
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

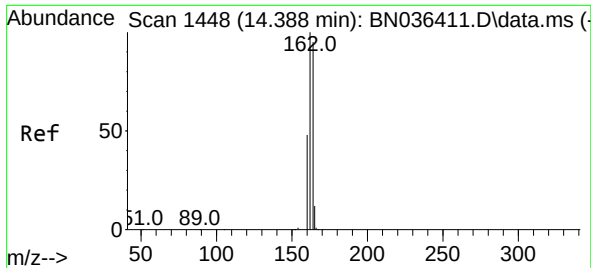


#12
2-Methylnaphthalene
Concen: 0.379 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31



Tgt Ion:142 Resp: 4220
Ion Ratio Lower Upper
142 100
141 90.6 72.8 109.2
115 44.3 35.5 53.3





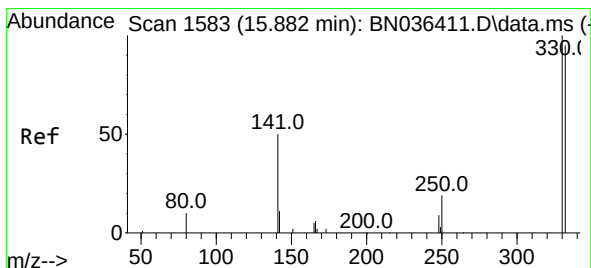
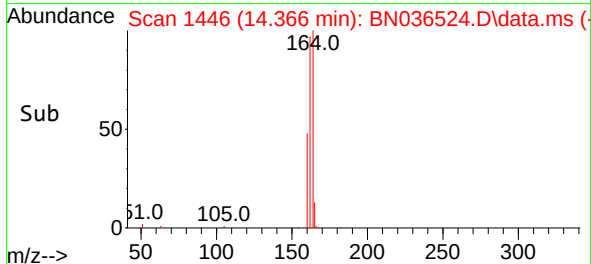
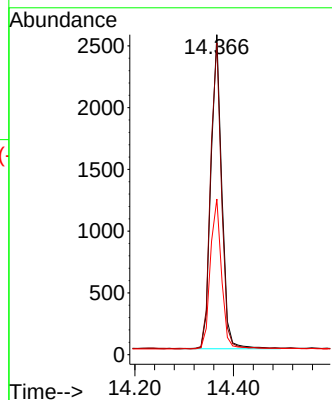
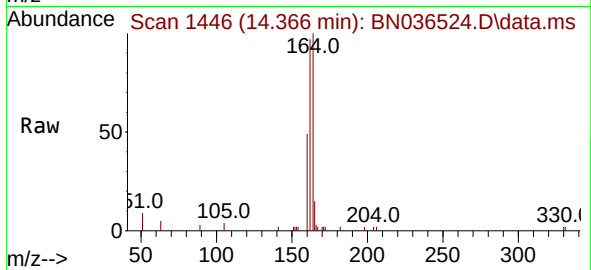
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1448
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 388
Ion Ratio Lower Upper
164 100
162 97.5 84.1 126.1
160 48.7 41.4 62.0

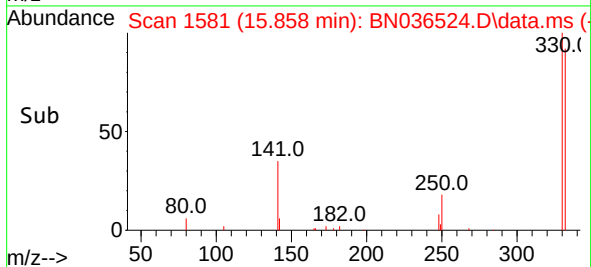
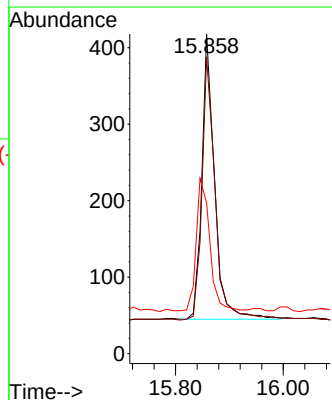
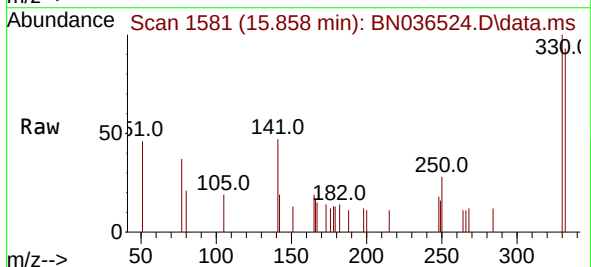
Manual Integrations
APPROVED

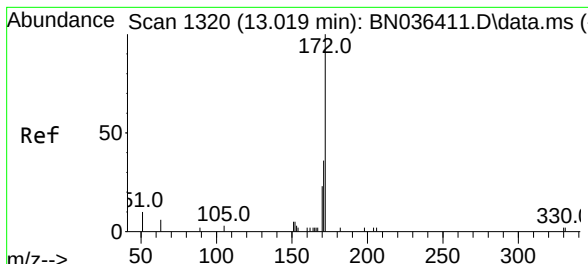
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:330 Resp: 613
Ion Ratio Lower Upper
330 100
332 96.2 76.6 114.8
141 49.1 37.8 56.8





#15
2-Fluorobiphenyl
Concen: 0.564 ng
RT: 12.988 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

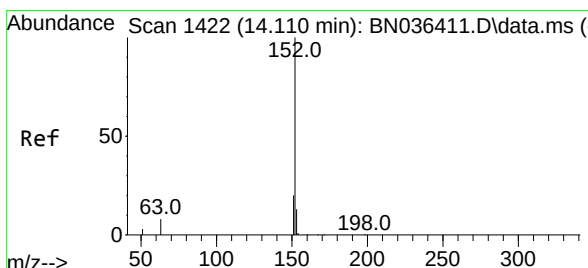
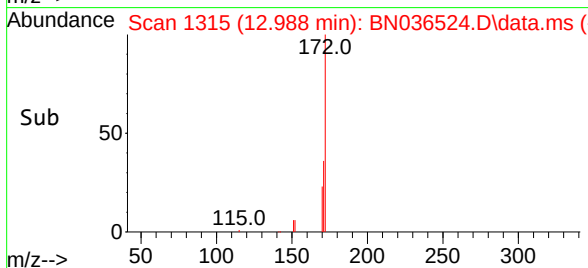
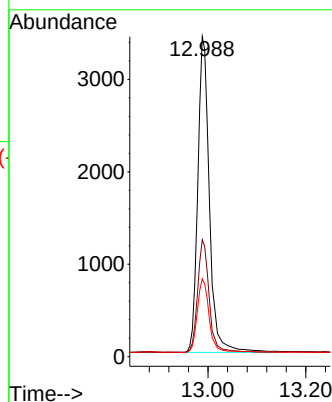
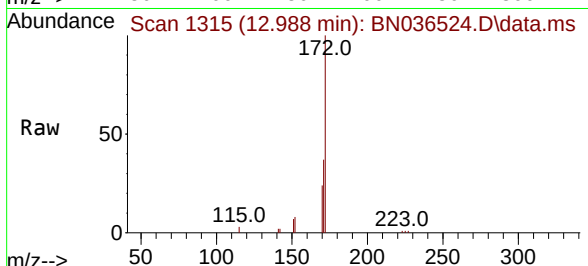
SSTDCCC0.4

Tgt Ion:172 Resp: 823
Ion Ratio Lower Upper
172 100
171 36.6 29.6 44.4
170 24.4 19.8 29.6

Manual Integrations

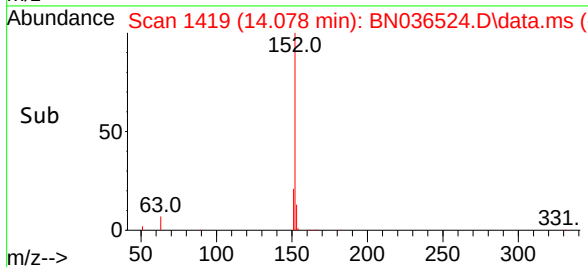
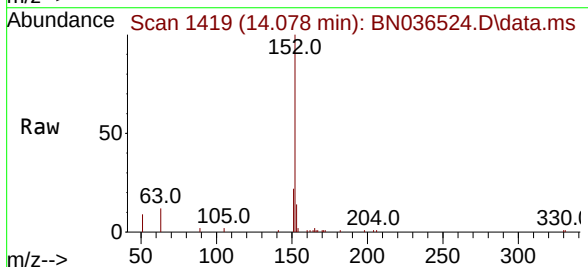
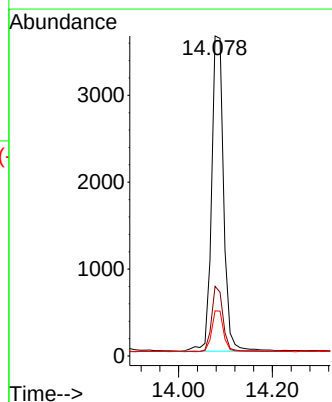
APPROVED

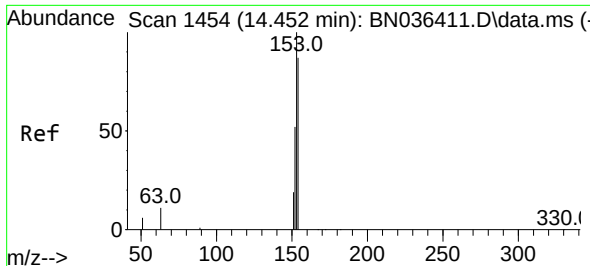
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#16
Acenaphthylene
Concen: 0.377 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:152 Resp: 6474
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.8
153 12.9 10.2 15.2





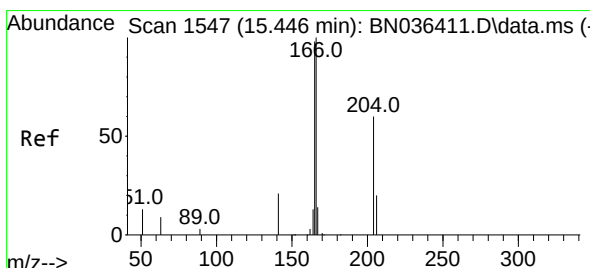
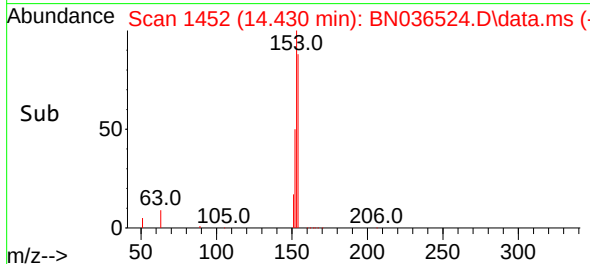
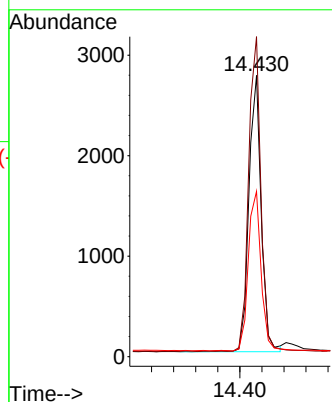
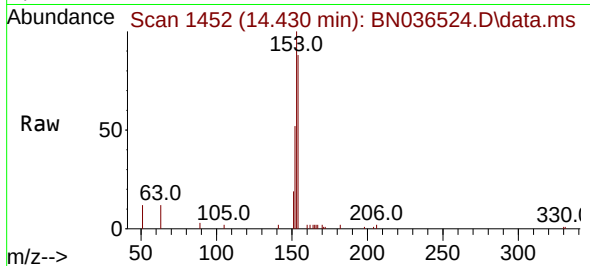
#17
Acenaphthene
Concen: 0.371 ng
RT: 14.430 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 425
Ion Ratio Lower Upper
154 100
153 114.3 93.3 139.9
152 60.6 48.8 73.2

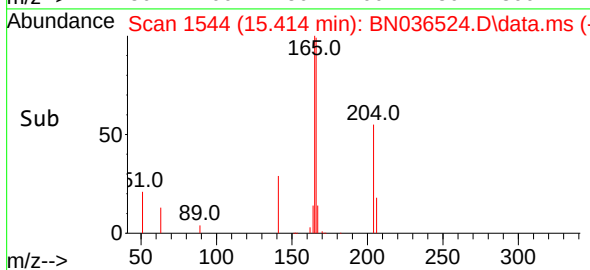
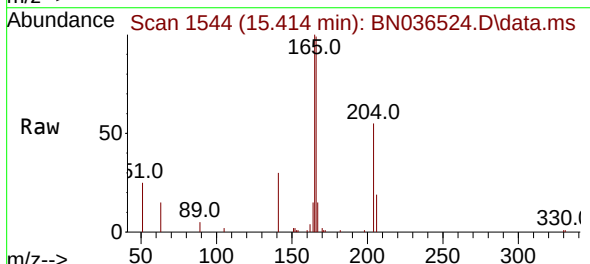
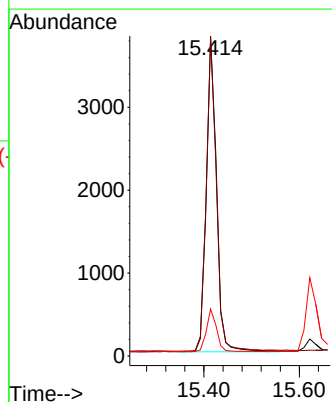
Manual Integrations
APPROVED

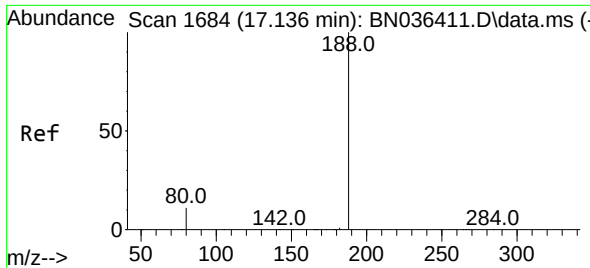
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#18
Fluorene
Concen: 0.357 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

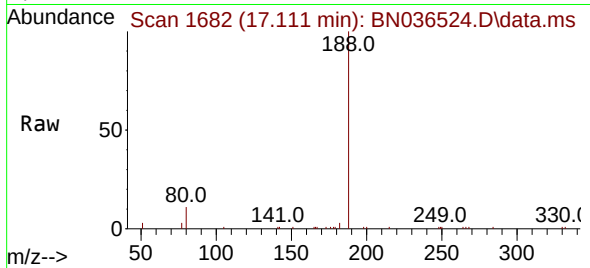
Tgt Ion:166 Resp: 5822
Ion Ratio Lower Upper
166 100
165 99.3 79.5 119.3
167 13.6 10.4 15.6





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

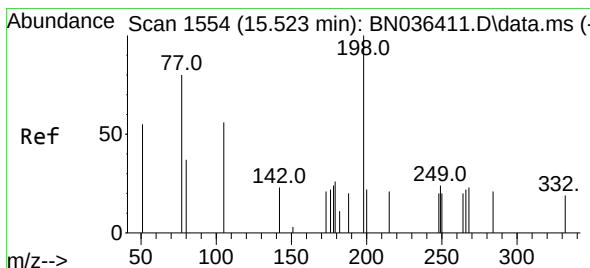
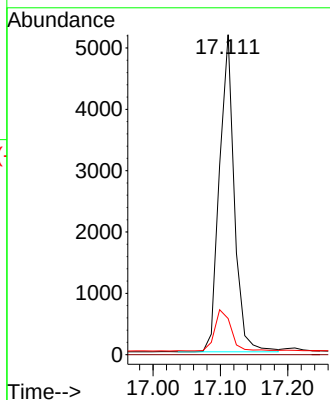
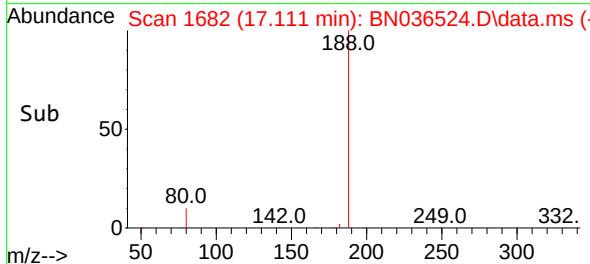
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



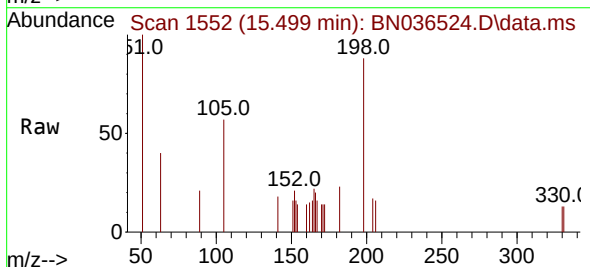
Tgt Ion:188 Resp: 7928
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.3 9.8 14.6

Manual Integrations
APPROVED

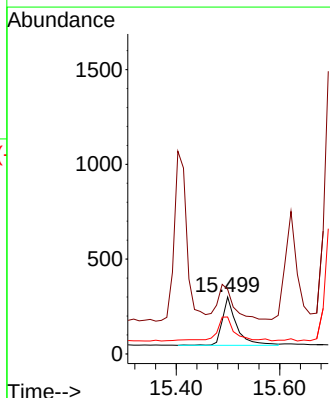
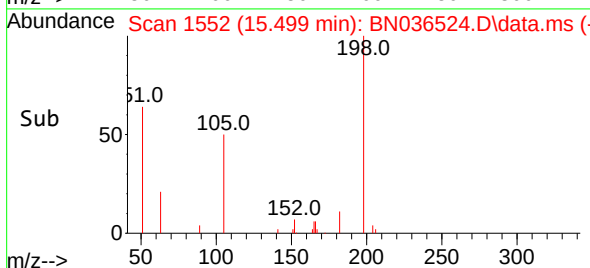
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

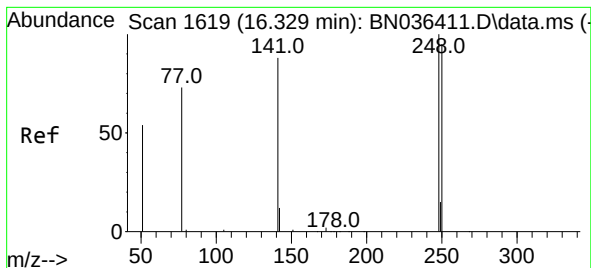


#20
4,6-Dinitro-2-methylphenol
Concen: 0.318 ng
RT: 15.499 min Scan# 1552
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31



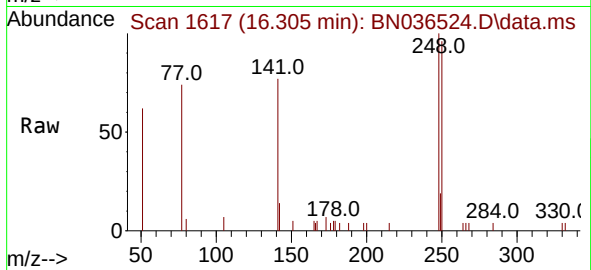
Tgt Ion:198 Resp: 494
Ion Ratio Lower Upper
198 100
51 113.7 86.6 129.8
105 65.0 57.5 86.3





#21
4-Bromophenyl-phenylether
Concen: 0.376 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

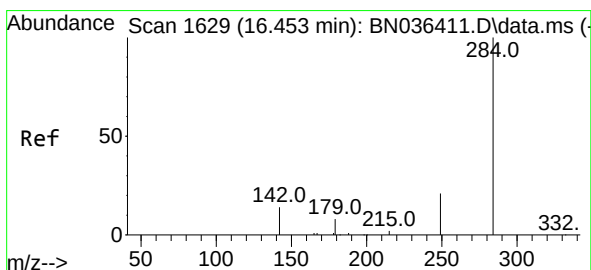
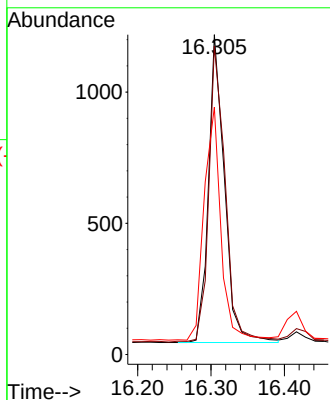
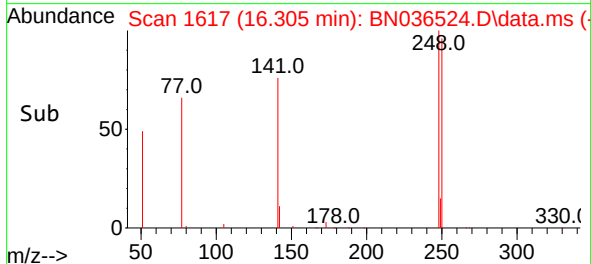
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



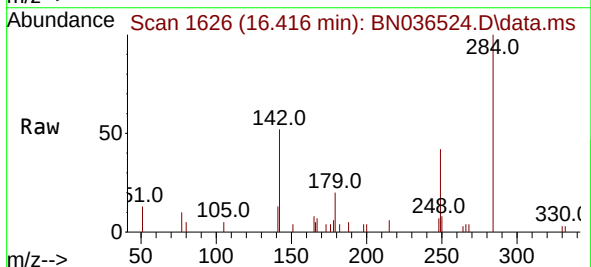
Tgt Ion:248 Resp: 1770
Ion Ratio Lower Upper
248 100
250 96.4 76.1 114.1
141 77.4 71.7 107.5

Manual Integrations
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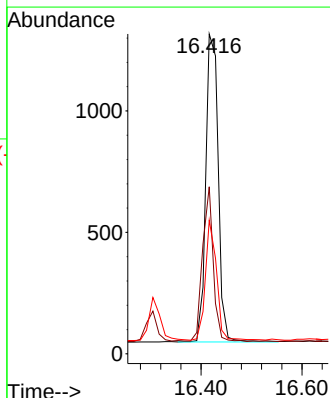
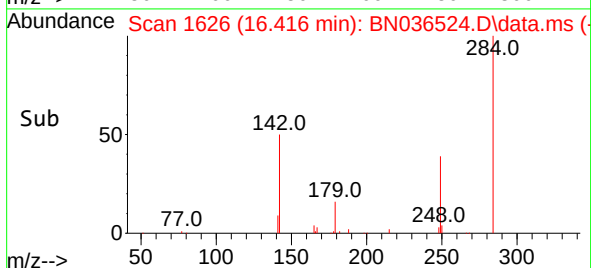
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

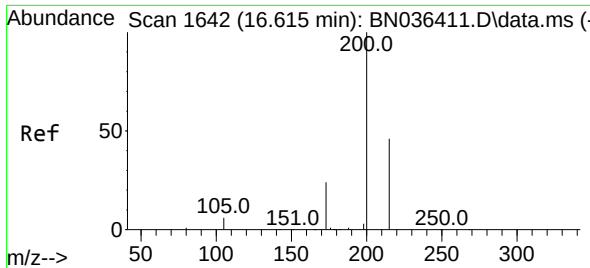


#22
Hexachlorobenzene
Concen: 0.371 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31



Tgt Ion:284 Resp: 2169
Ion Ratio Lower Upper
284 100
142 43.3 33.4 50.0
249 35.2 28.6 43.0





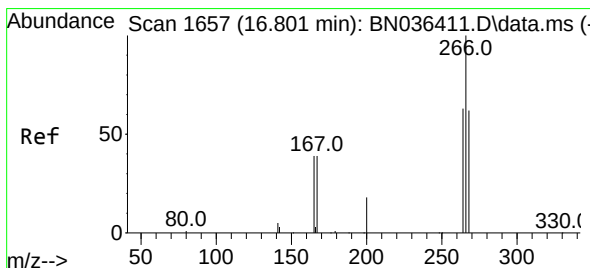
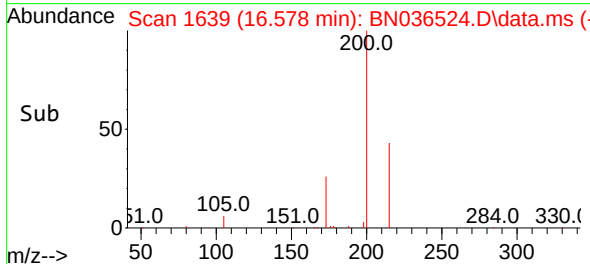
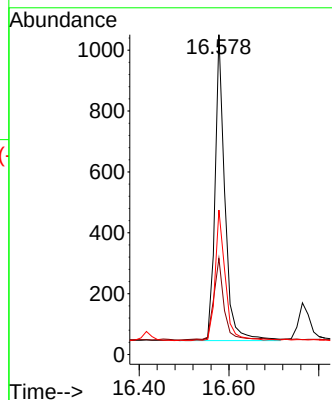
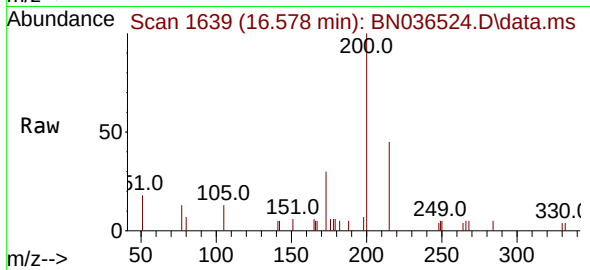
#23
 Atrazine
 Concen: 0.387 ng
 RT: 16.578 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: BN036524.D
 Acq: 05 Mar 2025 13:31

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Tgt Ion:200 Resp: 1528
 Ion Ratio Lower Upper
 200 100
 173 30.1 23.2 34.8
 215 45.2 40.0 60.0

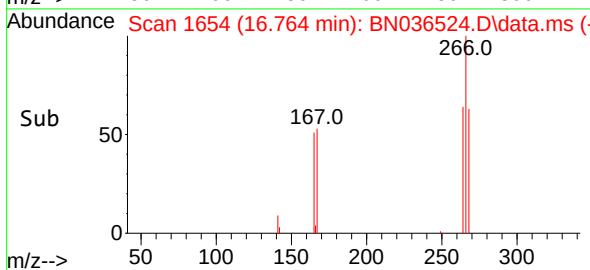
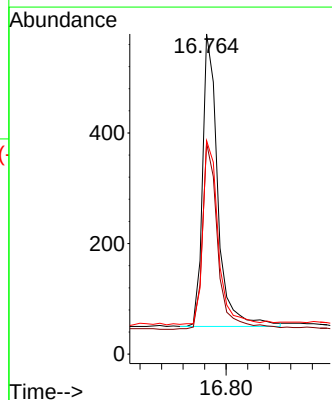
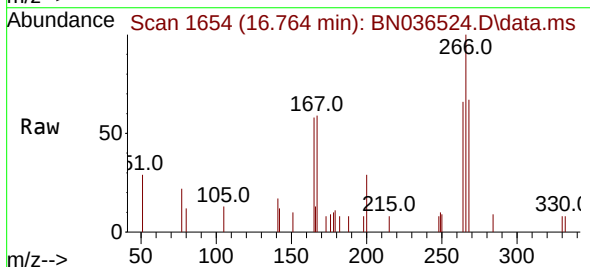
Manual Integrations
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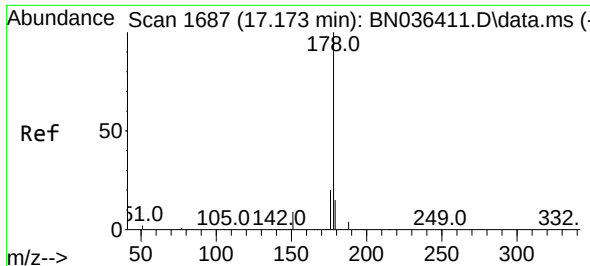
Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025



#24
 Pentachlorophenol
 Concen: 0.375 ng
 RT: 16.764 min Scan# 1654
 Delta R.T. 0.000 min
 Lab File: BN036524.D
 Acq: 05 Mar 2025 13:31

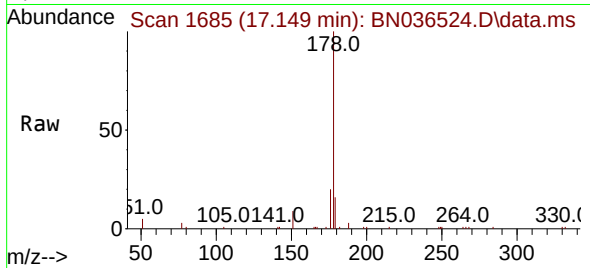
Tgt Ion:266 Resp: 1040
 Ion Ratio Lower Upper
 266 100
 264 64.1 50.6 76.0
 268 62.8 51.9 77.9





#25
Phenanthrene
Concen: 0.394 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

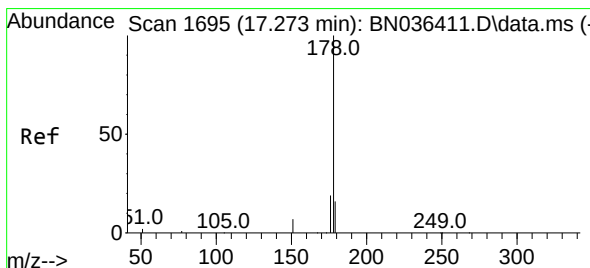
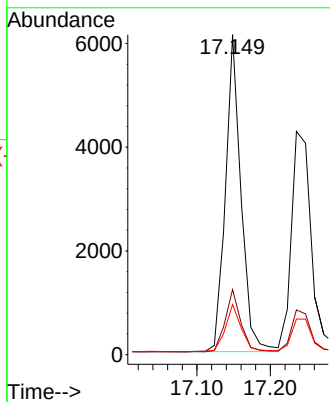
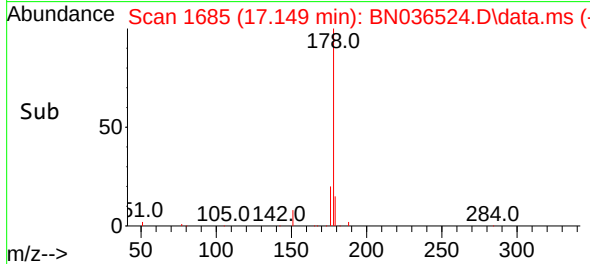
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:178 Resp: 9019
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.2 12.4 18.6

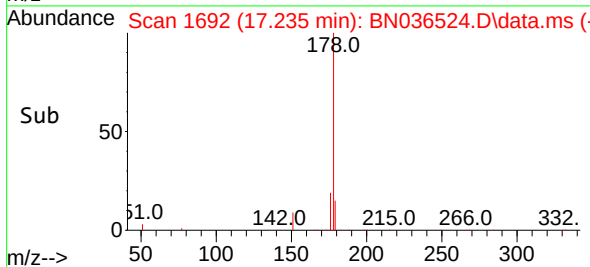
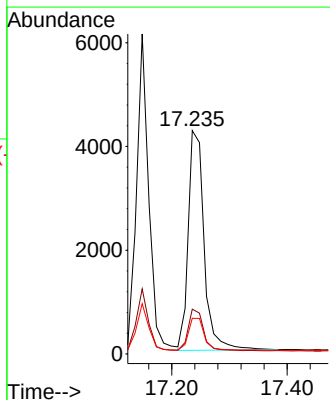
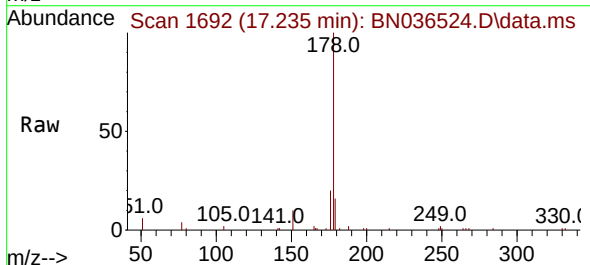
Manual Integrations
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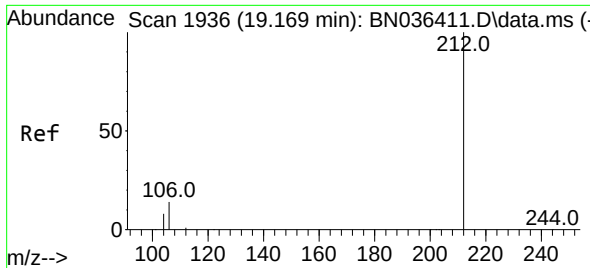
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#26
Anthracene
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:178 Resp: 8093
Ion Ratio Lower Upper
178 100
176 18.3 14.9 22.3
179 15.1 12.4 18.6





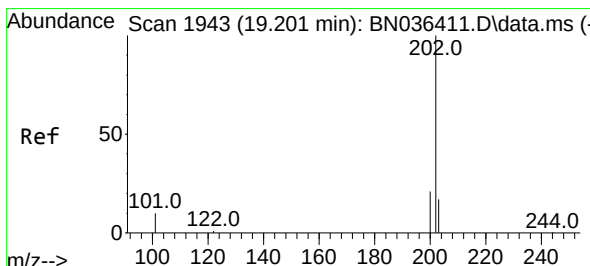
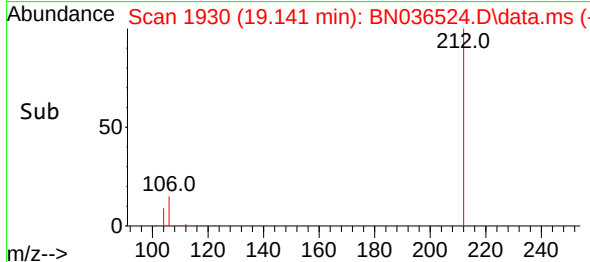
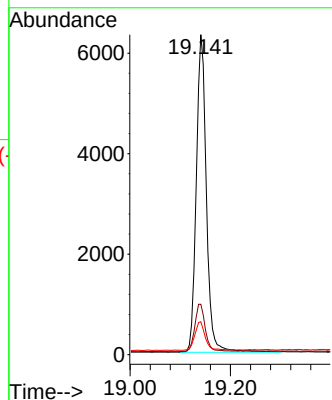
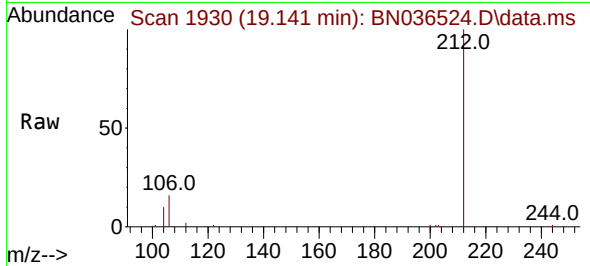
#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 880
Ion Ratio Lower Upper
212 100
106 15.3 11.5 17.3
104 9.2 7.1 10.7

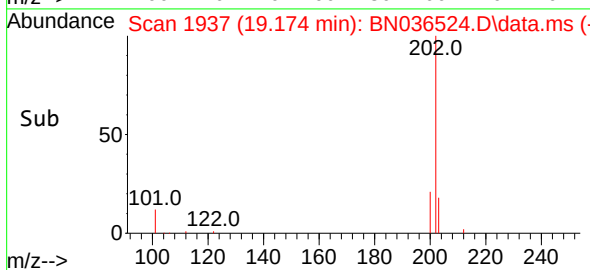
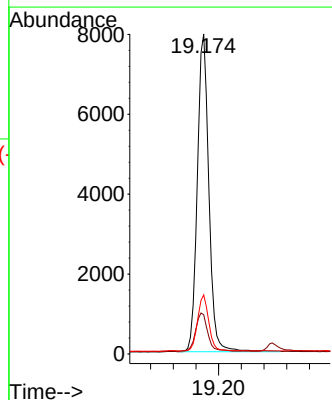
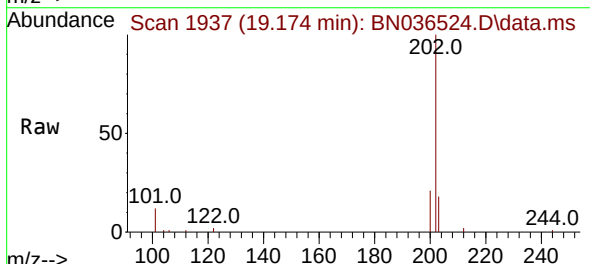
Manual Integrations
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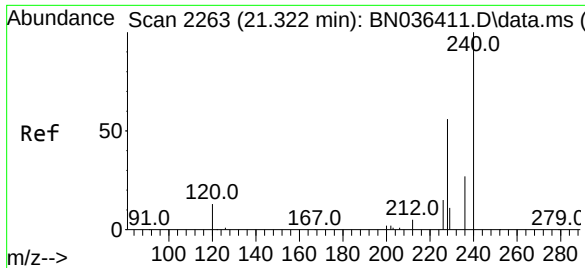
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#28
Fluoranthene
Concen: 0.398 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:202 Resp: 11196
Ion Ratio Lower Upper
202 100
101 12.7 9.2 13.8
203 17.1 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036524.D

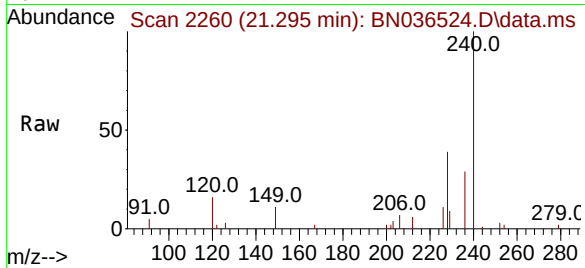
Acq: 05 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



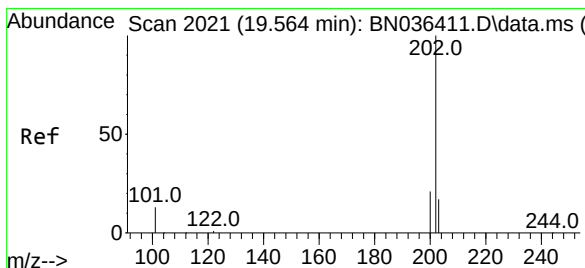
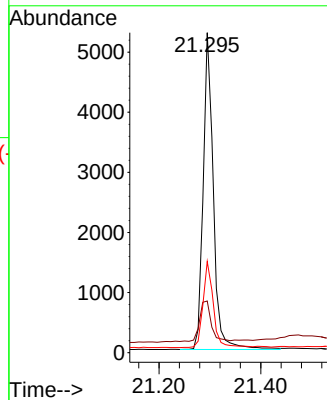
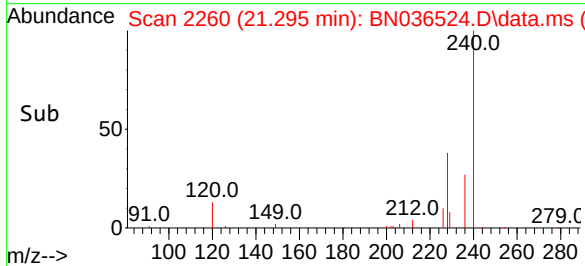
Tgt Ion:	240	Resp:	730
Ion Ratio	Lower	Upper	
240	100		
120	16.2	13.3	19.9
236	28.5	23.0	34.6

Manual Integrations

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Reviewed By :Anahy Claudio 03/06/2025

Supervised By :Jagrut Upadhyay 03/06/2025



#30

Pyrene

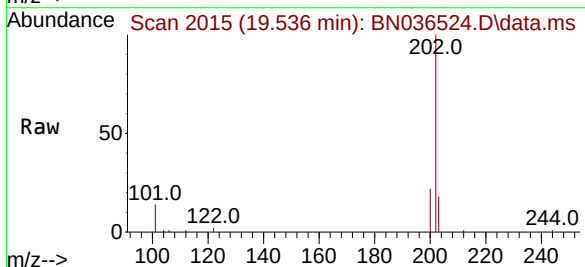
Concen: 0.410 ng

RT: 19.536 min Scan# 2015

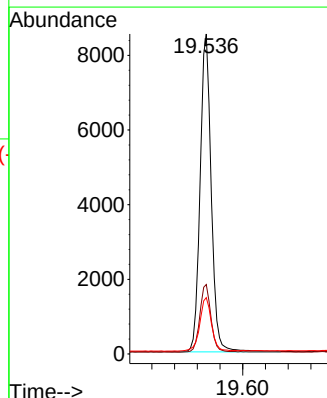
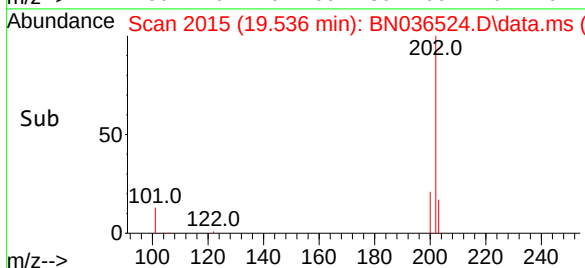
Delta R.T. 0.000 min

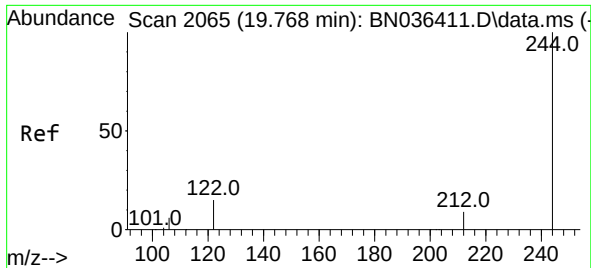
Lab File: BN036524.D

Acq: 05 Mar 2025 13:31



Tgt Ion:	202	Resp:	11526
Ion Ratio	Lower	Upper	
202	100		
200	21.4	16.9	25.3
203	17.8	13.9	20.9





#31
 Terphenyl-d14
 Concen: 0.393 ng
 RT: 19.745 min Scan# 2065
 Delta R.T. 0.000 min
 Lab File: BN036524.D
 Acq: 05 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

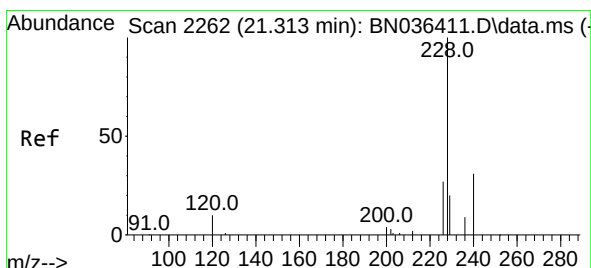
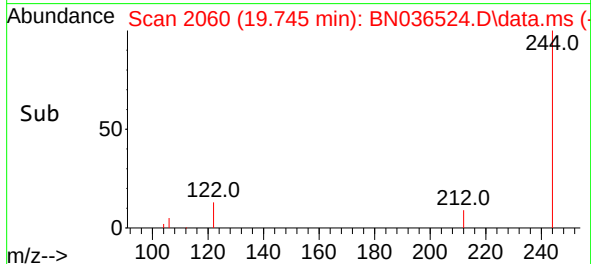
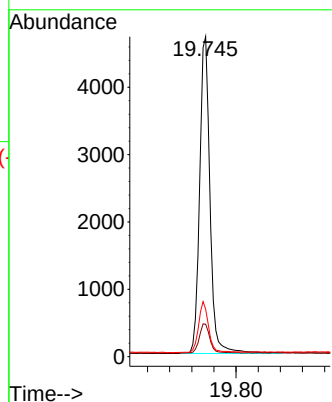
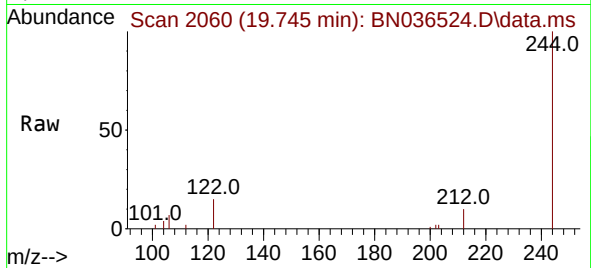
SSTDCCC0.4

Tgt Ion:244 Resp: 613
 Ion Ratio Lower Upper
 244 100
 212 10.1 8.1 12.1
 122 14.9 12.8 19.2

Manual Integrations

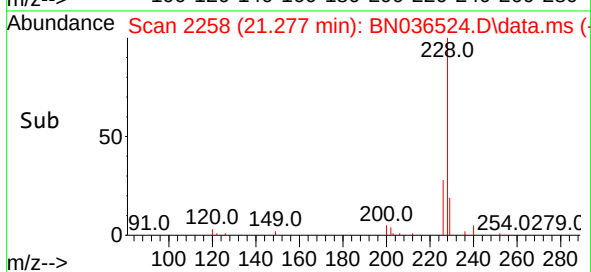
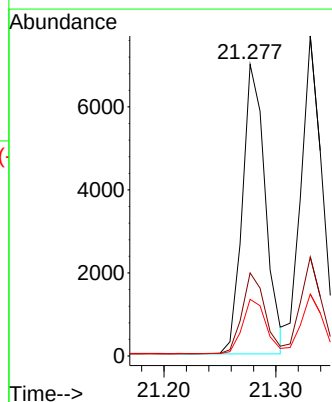
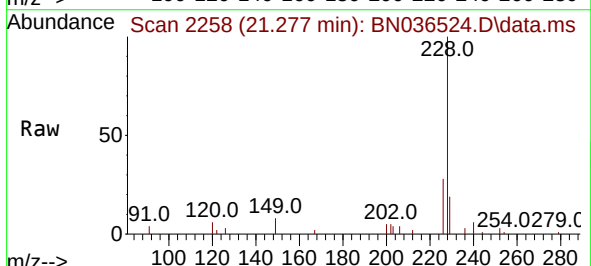
APPROVED

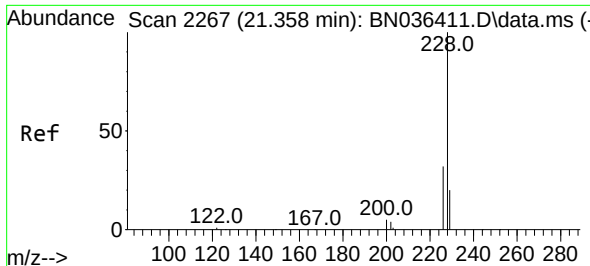
Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025



#32
 Benzo(a)anthracene
 Concen: 0.412 ng
 RT: 21.277 min Scan# 2258
 Delta R.T. 0.000 min
 Lab File: BN036524.D
 Acq: 05 Mar 2025 13:31

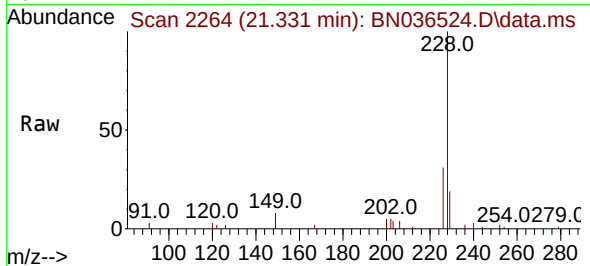
Tgt Ion:228 Resp: 9909
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.2 33.2
 229 19.4 16.5 24.7





#33
Chrysene
Concen: 0.411 ng
RT: 21.331 min Scan# 21331
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

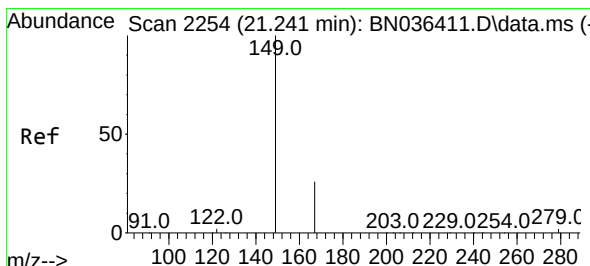
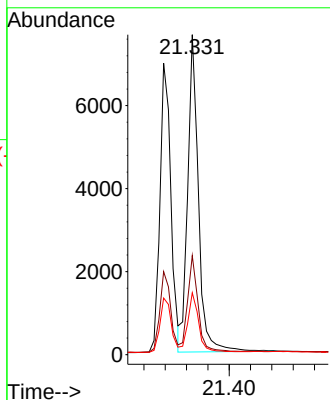
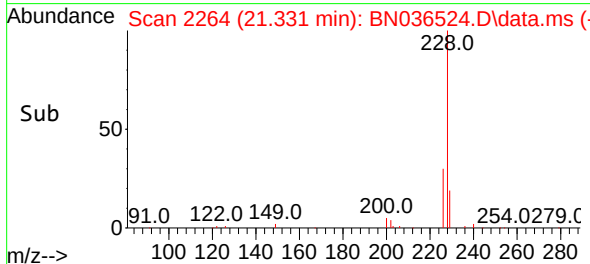
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



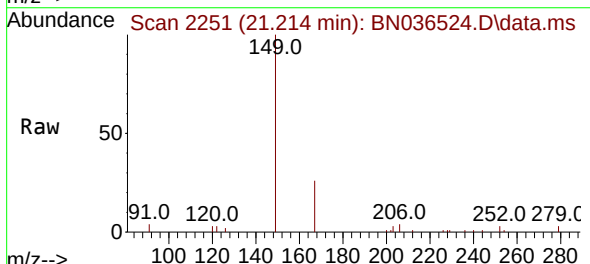
Tgt Ion:228 Resp: 10684
Ion Ratio Lower Upper
228 100
226 31.0 25.5 38.3
229 19.3 16.4 24.6

Manual Integrations
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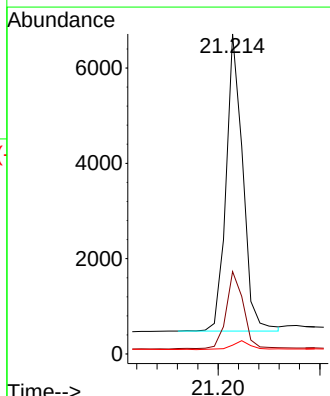
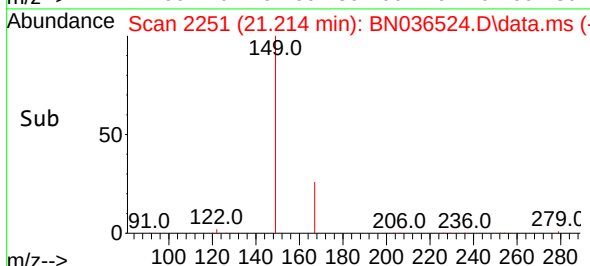
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

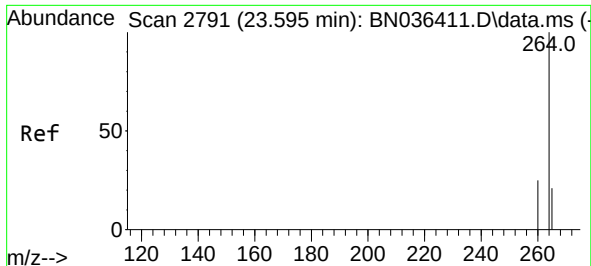


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.473 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31



Tgt Ion:149 Resp: 7086
Ion Ratio Lower Upper
149 100
167 26.5 21.2 31.8
279 3.6 2.7 4.1





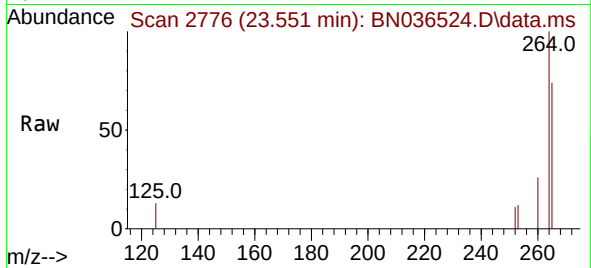
#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.551 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036524.D
 Acq: 05 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

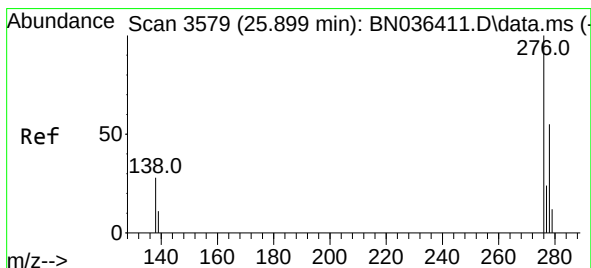
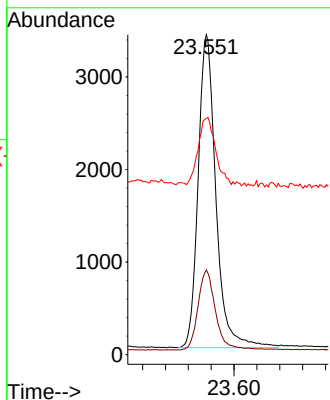
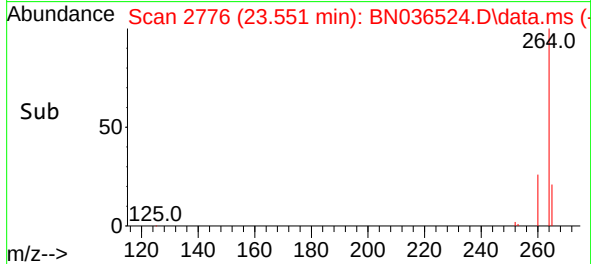


Tgt Ion:264 Resp: 7292
 Ion Ratio Lower Upper
 264 100
 260 26.5 20.9 31.3
 265 73.9 60.7 91.1

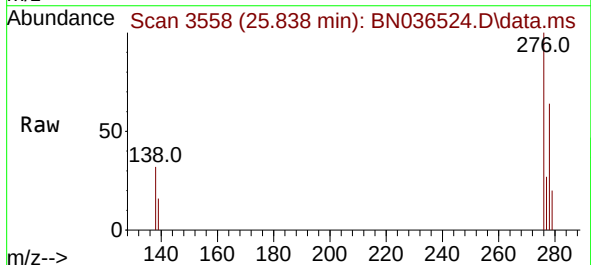
Manual Integrations

APPROVED

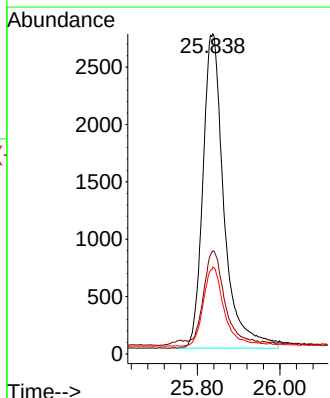
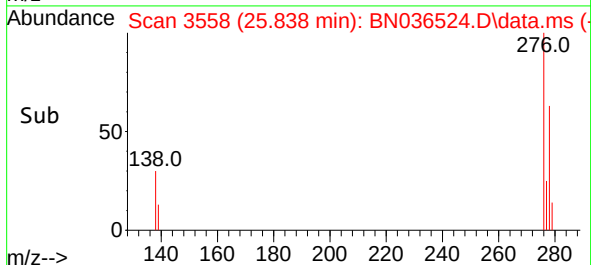
Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025

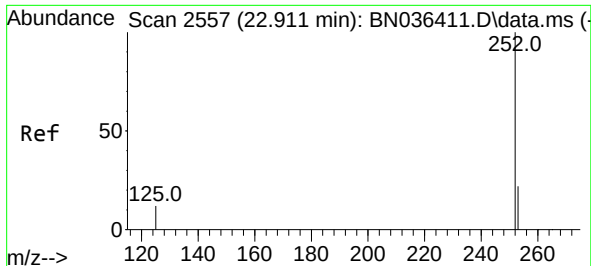


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.382 ng
 RT: 25.838 min Scan# 3558
 Delta R.T. 0.000 min
 Lab File: BN036524.D
 Acq: 05 Mar 2025 13:31



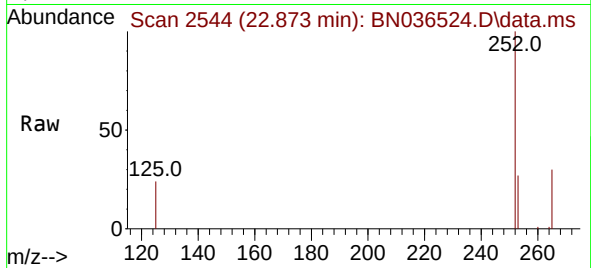
Tgt Ion:276 Resp: 9728
 Ion Ratio Lower Upper
 276 100
 138 27.9 22.2 33.2
 277 24.6 19.8 29.6





#37
Benzo(b)fluoranthene
Concen: 0.429 ng m
RT: 22.873 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

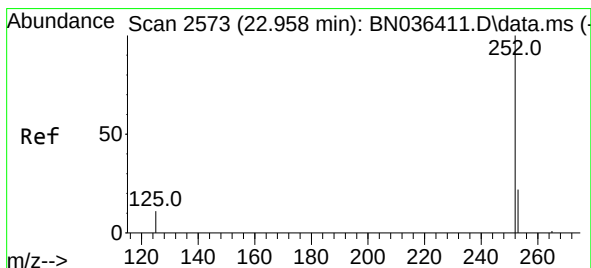
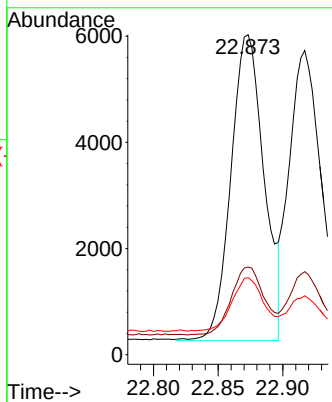
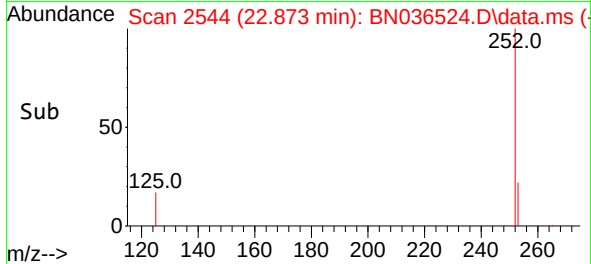
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:252 Resp: 1029
Ion Ratio Lower Upper
252 100
253 27.4 21.9 32.9
125 24.0 15.0 22.6

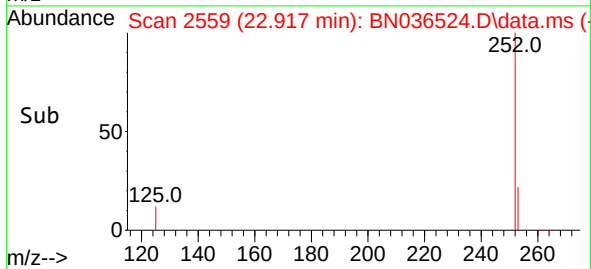
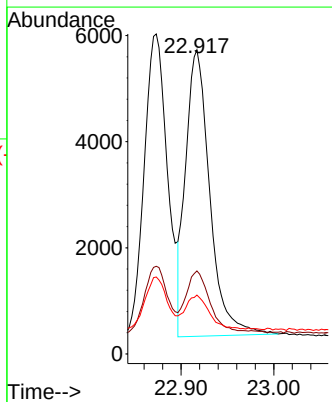
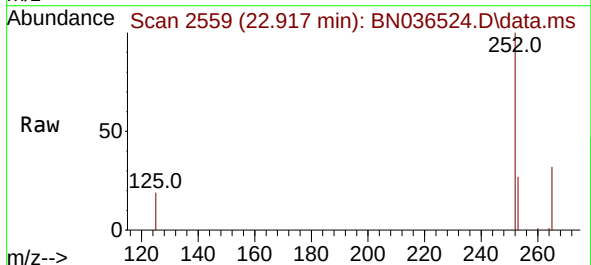
Manual Integrations
APPROVED

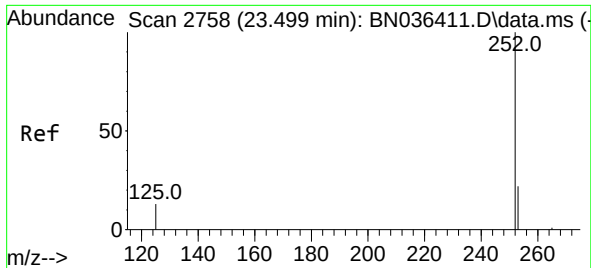
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#38
Benzo(k)fluoranthene
Concen: 0.395 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:252 Resp: 9771
Ion Ratio Lower Upper
252 100
253 27.3 22.2 33.4
125 19.4 15.0 22.4





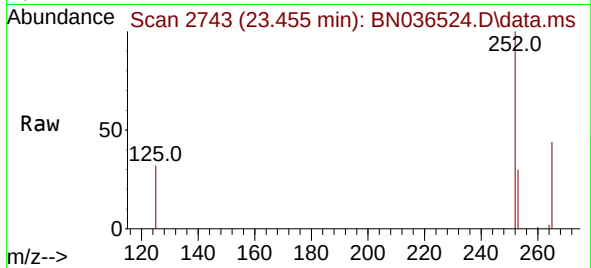
#39
Benzo(a)pyrene
Concen: 0.412 ng
RT: 23.455 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

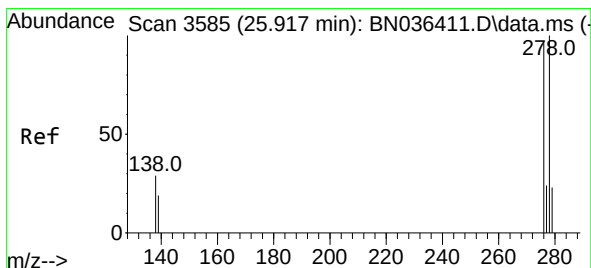
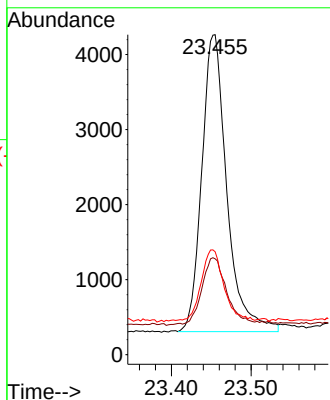
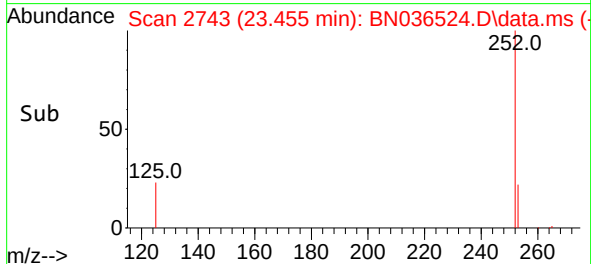


Tgt Ion:252 Resp: 863
Ion Ratio Lower Upper
252 100
253 29.9 24.4 36.6
125 32.2 18.2 27.2

Manual Integrations

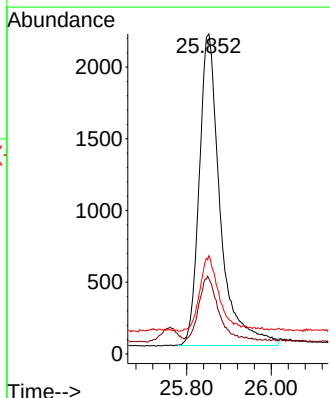
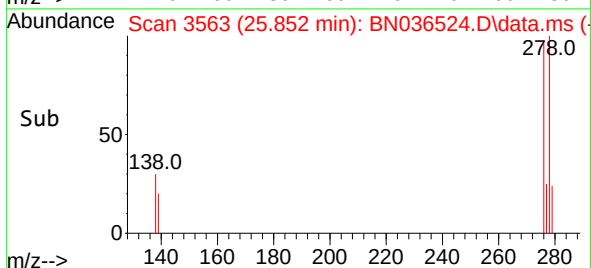
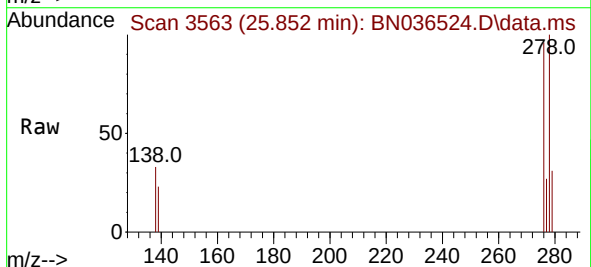
APPROVED

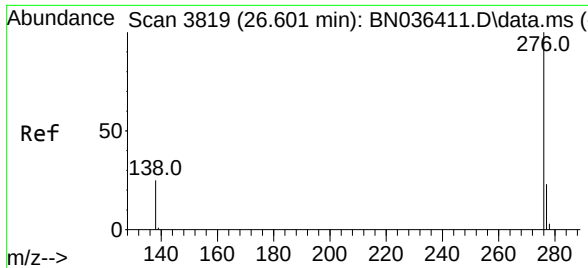
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#40
Dibenzo(a,h)anthracene
Concen: 0.372 ng
RT: 25.852 min Scan# 3563
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

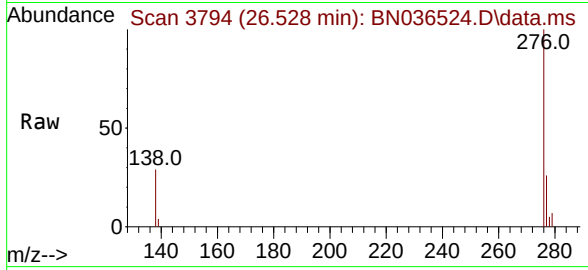
Tgt Ion:278 Resp: 7487
Ion Ratio Lower Upper
278 100
139 23.5 18.5 27.7
279 30.7 24.8 37.2





#41
 Benzo(g,h,i)perylene
 Concen: 0.371 ng
 RT: 26.528 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN036524.D
 Acq: 05 Mar 2025 13:31

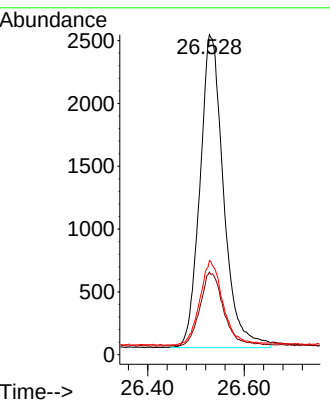
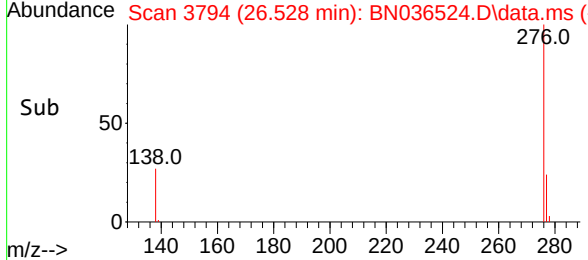
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4



Tgt Ion: 276 Resp: 8450

Ion	Ratio	Lower	Upper
276	100		
277	25.8	20.7	31.1
138	29.5	21.8	32.6

Manual Integrations
APPROVED
 Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
 Data File : BN036524.D
 Acq On : 05 Mar 2025 13:31
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 05 16:09:24 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 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	106	0.00
2	1,4-Dioxane	0.438	0.436	0.5	107	0.00
3	n-Nitrosodimethylamine	0.760	0.813	-7.0	113	0.00
4 S	2-Fluorophenol	0.945	0.961	-1.7	109	0.00
5 S	Phenol-d6	1.109	1.154	-4.1	118	0.00
6	bis(2-Chloroethyl)ether	1.160	1.221	-5.3	119	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
8 S	Nitrobenzene-d5	0.395	0.401	-1.5	117	0.00
9	Naphthalene	1.154	1.117	3.2	107	0.00
10	Hexachlorobutadiene	0.281	0.259	7.8	97	0.00
11 SURR	2-Methylnaphthalene-d10	0.615	0.591	3.9	105	0.00
12	2-Methylnaphthalene	0.757	0.716	5.4	103	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.198	0.158	20.2	91	0.00
15 S	2-Fluorobiphenyl	1.504	2.119	-40.9#	166#	0.00
16	Acenaphthylene	1.767	1.666	5.7	106	0.00
17	Acenaphthene	1.180	1.095	7.2	103	0.00
18	Fluorene	1.680	1.498	10.8	97	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	95	0.00
20	4,6-Dinitro-2-methylphenol	0.078	0.062	20.5	86	0.00
21	4-Bromophenyl-phenylether	0.239	0.224	6.3	93	0.00
22	Hexachlorobenzene	0.295	0.274	7.1	92	0.00
23	Atrazine	0.199	0.193	3.0	98	0.00
24	Pentachlorophenol	0.140	0.131	6.4	102	0.00
25	Phenanthrene	1.156	1.138	1.6	99	0.00
26	Anthracene	1.020	1.021	-0.1	100	0.00
27 SURR	Fluoranthene-d10	1.112	1.110	0.2	99	0.00
28	Fluoranthene	1.421	1.412	0.6	99	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	98	0.00
30	Pyrene	1.541	1.578	-2.4	100	0.00
31 S	Terphenyl-d14	0.854	0.840	1.6	96	0.00
32	Benzo(a)anthracene	1.316	1.357	-3.1	102	0.00
33	Chrysene	1.425	1.463	-2.7	105	0.00
34	Bis(2-ethylhexyl)phthalate	0.820	0.970	-18.3	122	0.00
35 I	Perylene-d12	1.000	1.000	0.0	94	0.00
36	Indeno(1,2,3-cd)pyrene	1.398	1.334	4.6	91	0.00
37	Benzo(b)fluoranthene	1.317	1.411	-7.1	106	0.00
38	Benzo(k)fluoranthene	1.356	1.340	1.2	93	0.00
39 C	Benzo(a)pyrene	1.150	1.184	-3.0	101	0.00
40	Dibenzo(a,h)anthracene	1.103	1.027	6.9	90	0.00
41	Benzo(g,h,i)perylene	1.250	1.160	7.2	87	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
 Data File : BN036524.D
 Acq On : 05 Mar 2025 13:31
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 05 16:09:24 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 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	106	0.00
2	1,4-Dioxane	0.400	0.399	0.3	107	0.00
3	n-Nitrosodimethylamine	0.400	0.428	-7.0	113	0.00
4 S	2-Fluorophenol	0.400	0.406	-1.5	109	0.00
5 S	Phenol-d6	0.400	0.416	-4.0	118	0.00
6	bis(2-Chloroethyl)ether	0.400	0.421	-5.2	119	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	107	0.00
8 S	Nitrobenzene-d5	0.400	0.406	-1.5	117	0.00
9	Naphthalene	0.400	0.387	3.3	107	0.00
10	Hexachlorobutadiene	0.400	0.368	8.0	97	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.385	3.8	105	0.00
12	2-Methylnaphthalene	0.400	0.379	5.3	103	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.400	0.318	20.5	91	0.00
15 S	2-Fluorobiphenyl	0.400	0.564	-41.0#	166	0.00
16	Acenaphthylene	0.400	0.377	5.8	106	0.00
17	Acenaphthene	0.400	0.371	7.3	103	0.00
18	Fluorene	0.400	0.357	10.8	97	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	95	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.318	20.5	86	0.00
21	4-Bromophenyl-phenylether	0.400	0.376	6.0	93	0.00
22	Hexachlorobenzene	0.400	0.371	7.3	92	0.00
23	Atrazine	0.400	0.387	3.3	98	0.00
24	Pentachlorophenol	0.400	0.375	6.3	102	0.00
25	Phenanthrene	0.400	0.394	1.5	99	0.00
26	Anthracene	0.400	0.400	0.0	100	0.00
27 SURR	Fluoranthene-d10	0.400	0.399	0.3	99	0.00
28	Fluoranthene	0.400	0.398	0.5	99	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	98	0.00
30	Pyrene	0.400	0.410	-2.5	100	0.00
31 S	Terphenyl-d14	0.400	0.393	1.8	96	0.00
32	Benzo(a)anthracene	0.400	0.412	-3.0	102	0.00
33	Chrysene	0.400	0.411	-2.7	105	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.473	-18.2	122	0.00
35 I	Perylene-d12	0.400	0.400	0.0	94	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.382	4.5	91	0.00
37	Benzo(b)fluoranthene	0.400	0.429	-7.2	106	0.00
38	Benzo(k)fluoranthene	0.400	0.395	1.3	93	0.00
39 C	Benzo(a)pyrene	0.400	0.412	-3.0	101	0.00
40	Dibenzo(a,h)anthracene	0.400	0.372	7.0	90	0.00
41	Benzo(g,h,i)perylene	0.400	0.371	7.3	87	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.: Q1477 SAS No.: Q1477 SDG No.: Q1477

Instrument ID: BNA_N Calibration Date/Time: 03/05/2025 19:55

Lab File ID: BN036532.D Init. Calib. Date(s): 02/10/2025 02/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:25 16:00

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.615	0.573		-6.8	50.0
Fluoranthene-d10	1.112	1.079		-3.0	50.0
2-Fluorophenol	0.945	0.895		-5.3	50.0
Phenol-d6	1.109	1.058		-4.6	50.0
Nitrobenzene-d5	0.395	0.402		1.8	50.0
2-Fluorobiphenyl	1.504	1.873		24.5	50.0
2,4,6-Tribromophenol	0.198	0.155		-21.7	50.0
Terphenyl-d14	0.854	0.861		0.8	50.0
1,4-Dioxane	0.438	0.457		4.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
 Data File : BN036532.D
 Acq On : 05 Mar 2025 19:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 06 00:03:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	2061	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	4969	0.400	ng	# 0.01
13) Acenaphthene-d10	14.366	164	3255	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6522	0.400	ng	0.00
29) Chrysene-d12	21.304	240	5520	0.400	ng	# 0.00
35) Perylene-d12	23.554	264	5583	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	1844	0.379	ng	0.00
5) Phenol-d6	6.901	99	2180	0.381	ng	0.00
8) Nitrobenzene-d5	8.875	82	1996	0.407	ng	0.00
11) 2-Methylnaphthalene-d10	12.116	152	2849	0.373	ng	0.01
14) 2,4,6-Tribromophenol	15.870	330	505	0.313	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	6095	0.498	ng	0.00
27) Fluoranthene-d10	19.146	212	7039	0.388	ng	0.00
31) Terphenyl-d14	19.745	244	4751	0.403	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.247	88	941	0.417	ng	97
3) n-Nitrosodimethylamine	3.557	42	1790	0.457	ng	92
6) bis(2-Chloroethyl)ether	7.154	93	2364	0.396	ng	99
9) Naphthalene	10.562	128	5646	0.394	ng	99
10) Hexachlorobutadiene	10.861	225	1391	0.399	ng	# 99
12) 2-Methylnaphthalene	12.187	142	3553	0.378	ng	97
16) Acenaphthylene	14.088	152	5459	0.380	ng	99
17) Acenaphthene	14.430	154	3608	0.376	ng	98
18) Fluorene	15.414	166	4982	0.364	ng	100
20) 4,6-Dinitro-2-methylph...	15.510	198	380	0.297	ng	# 83
21) 4-Bromophenyl-phenylether	16.317	248	1518	0.390	ng	# 78
22) Hexachlorobenzene	16.429	284	1859	0.387	ng	96
23) Atrazine	16.590	200	1262	0.388	ng	97
24) Pentachlorophenol	16.776	266	801	0.351	ng	98
25) Phenanthrene	17.149	178	7491	0.397	ng	100
26) Anthracene	17.248	178	6696	0.403	ng	99
28) Fluoranthene	19.174	202	9074	0.392	ng	100
30) Pyrene	19.536	202	9367	0.441	ng	100
32) Benzo(a)anthracene	21.286	228	7308	0.402	ng	100
33) Chrysene	21.340	228	8235	0.419	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	4739	0.419	ng	99
36) Indeno(1,2,3-cd)pyrene	25.844	276	8122	0.416	ng	99
37) Benzo(b)fluoranthene	22.876	252	7715m	0.420	ng	
38) Benzo(k)fluoranthene	22.920	252	8080	0.427	ng	100
39) Benzo(a)pyrene	23.458	252	6903	0.430	ng	# 85
40) Dibenzo(a,h)anthracene	25.861	278	6252	0.406	ng	99
41) Benzo(g,h,i)perylene	26.540	276	7233	0.414	ng	97

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

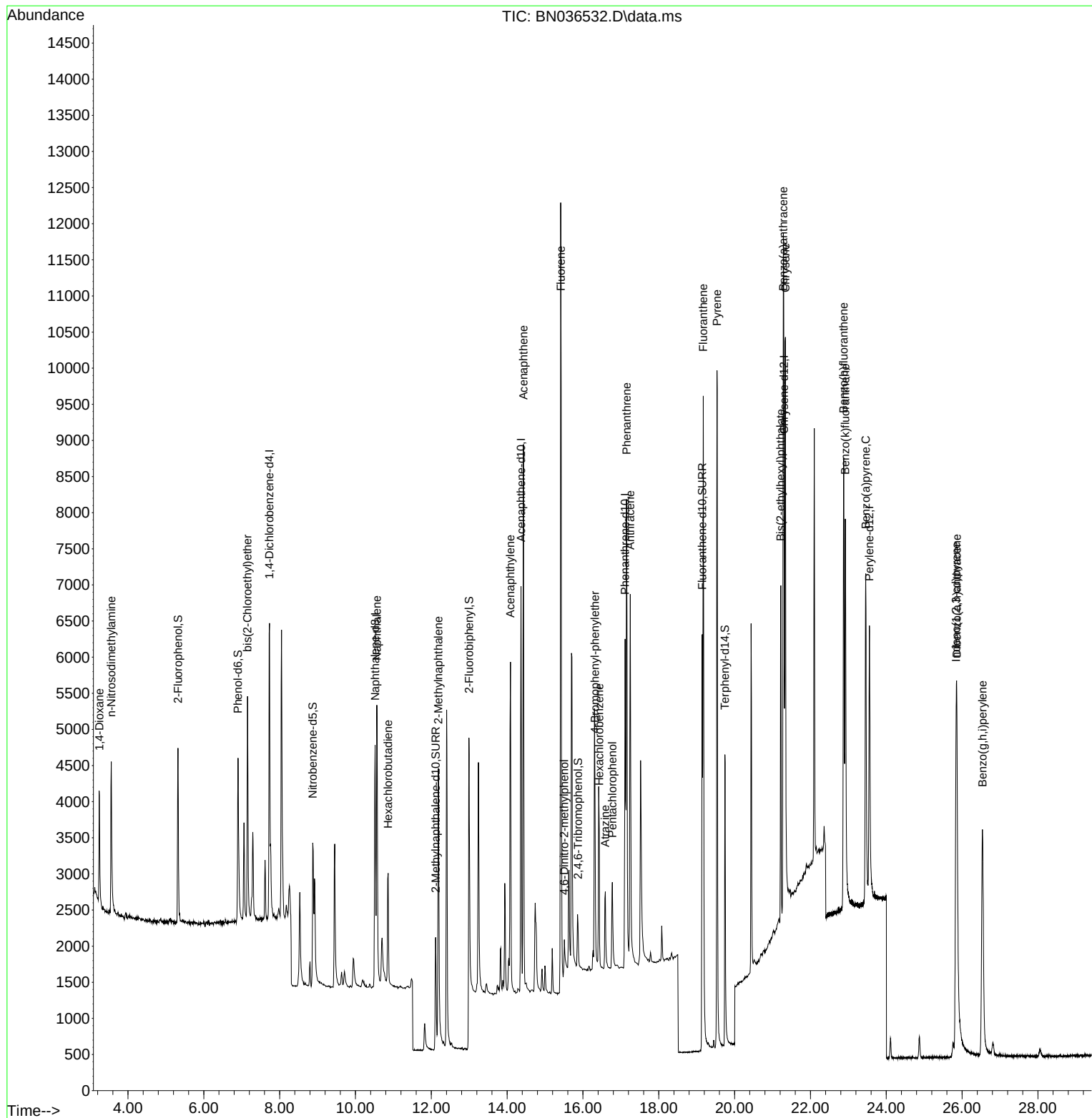
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
 Data File : BN036532.D
 Acq On : 05 Mar 2025 19:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

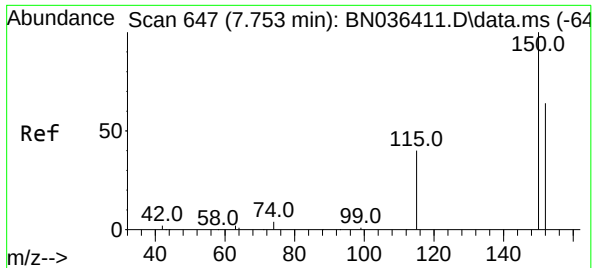
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025

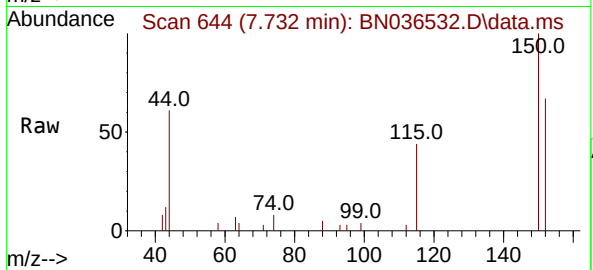
Quant Time: Mar 06 00:03:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.732 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

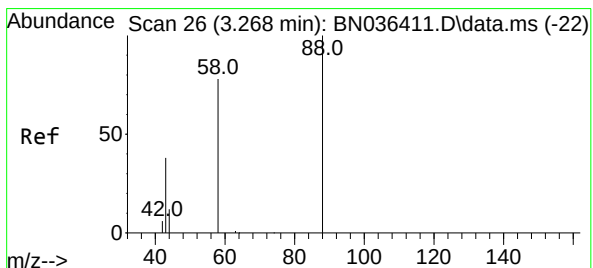
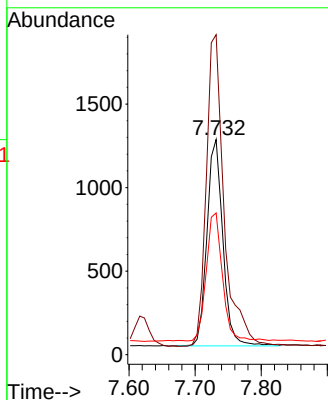
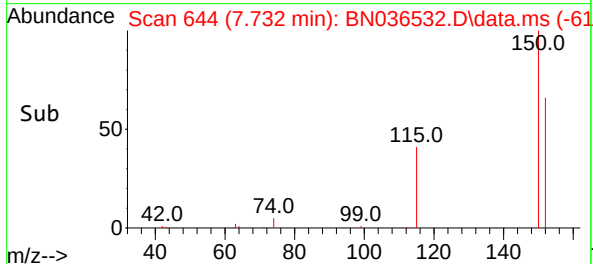
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 206
Ion Ratio Lower Upper
152 100
150 148.7 123.7 185.5
115 65.9 52.5 78.7

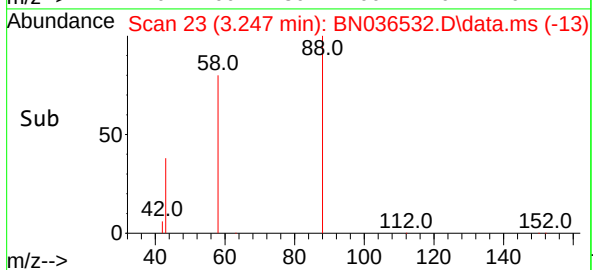
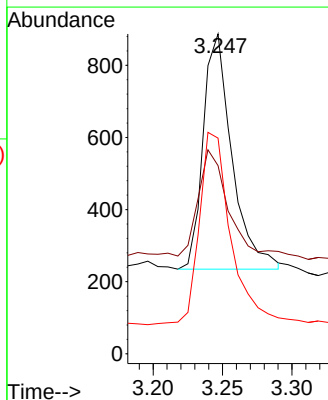
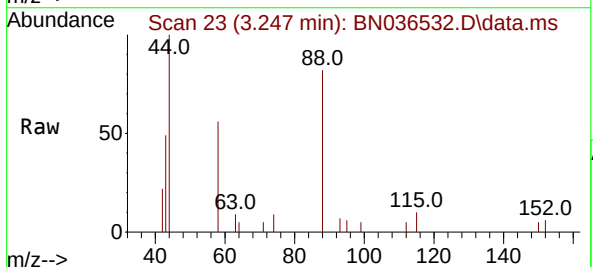
Manual Integrations
APPROVED

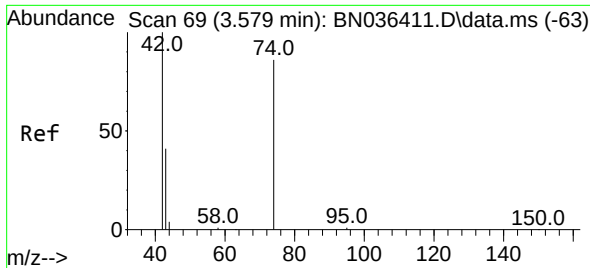
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#2
1,4-Dioxane
Concen: 0.417 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion: 88 Resp: 941
Ion Ratio Lower Upper
88 100
43 43.8 33.7 50.5
58 89.5 68.9 103.3





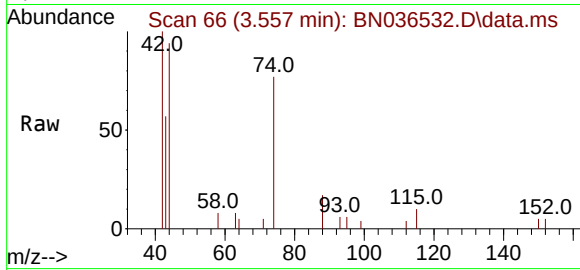
#3
n-Nitrosodimethylamine
Concen: 0.457 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

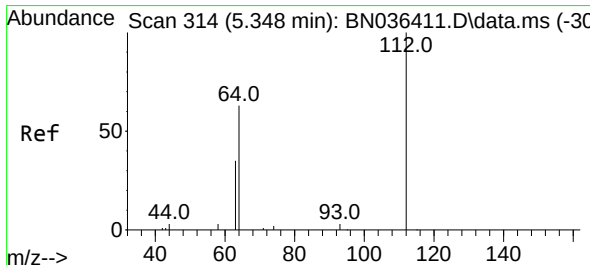
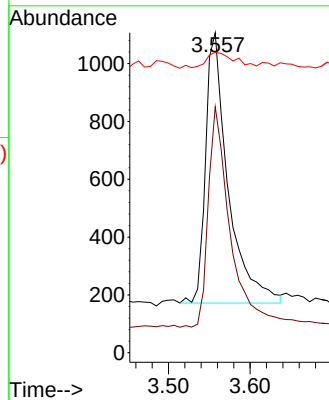
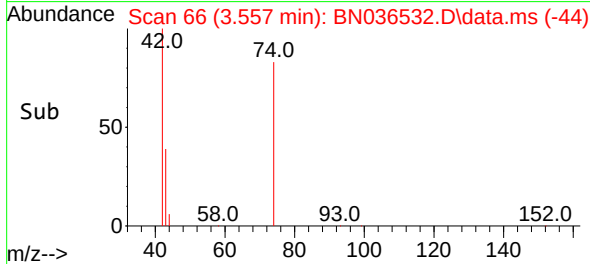


Tgt Ion: 42 Resp: 1790
Ion Ratio Lower Upper
42 100
74 81.8 71.8 107.6
44 7.8 7.8 11.6

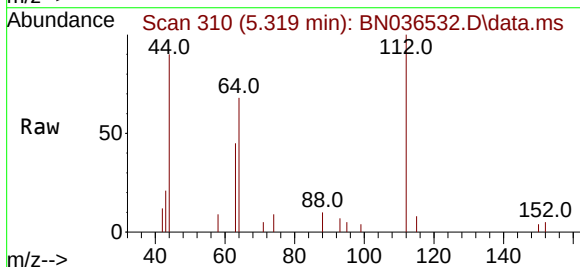
Manual Integrations

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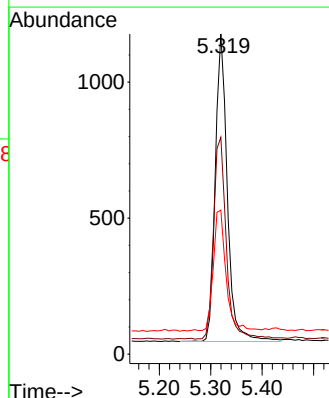
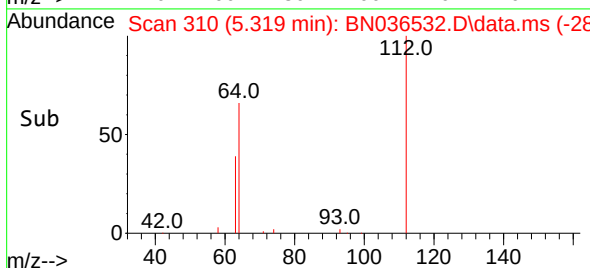
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

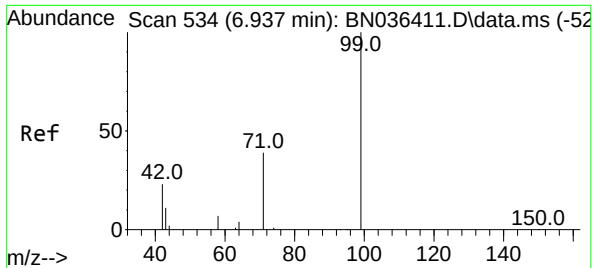


#4
2-Fluorophenol
Concen: 0.379 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55



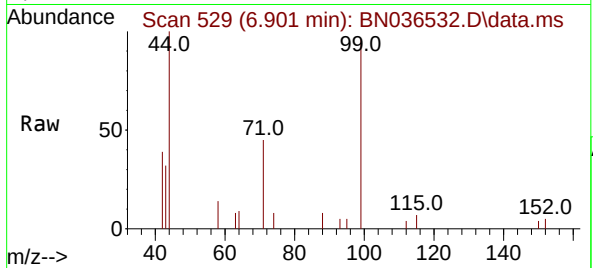
Tgt Ion:112 Resp: 1844
Ion Ratio Lower Upper
112 100
64 69.5 53.4 80.0
63 41.1 30.3 45.5





#5
Phenol-d6
Concen: 0.381 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

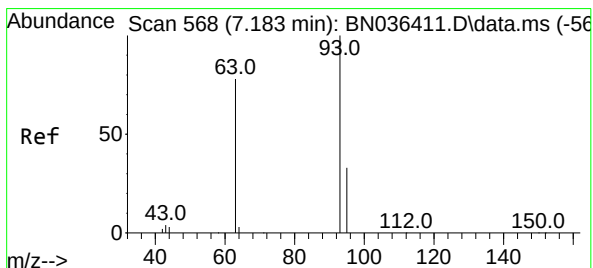
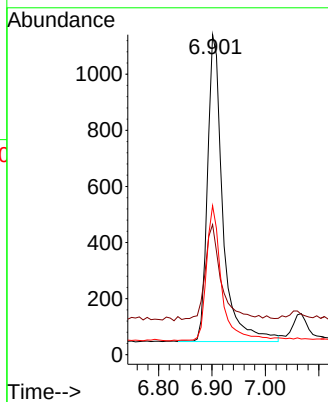
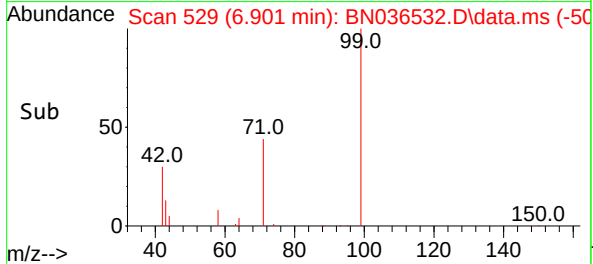
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 99 Resp: 2180
Ion Ratio Lower Upper
99 100
42 30.4 21.7 32.5
71 43.5 32.6 49.0

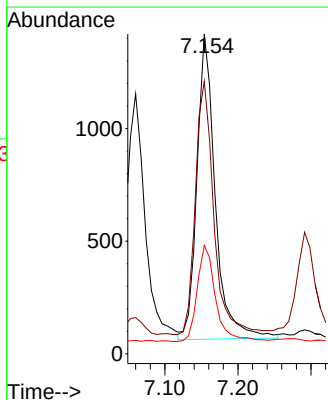
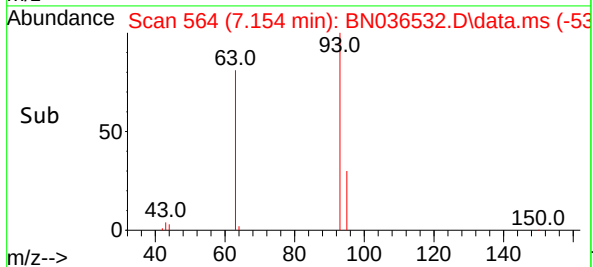
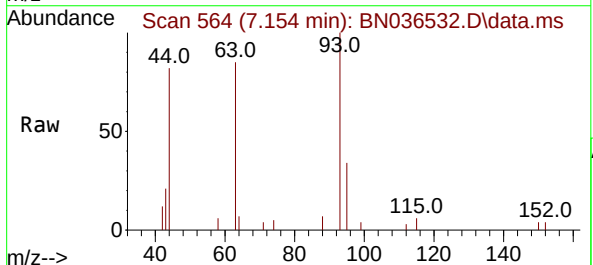
Manual Integrations
APPROVED

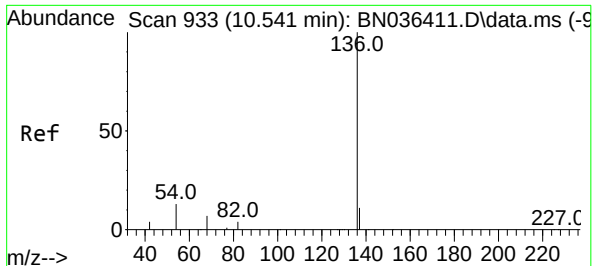
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.396 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion: 93 Resp: 2364
Ion Ratio Lower Upper
93 100
63 83.3 66.3 99.5
95 31.8 26.2 39.4





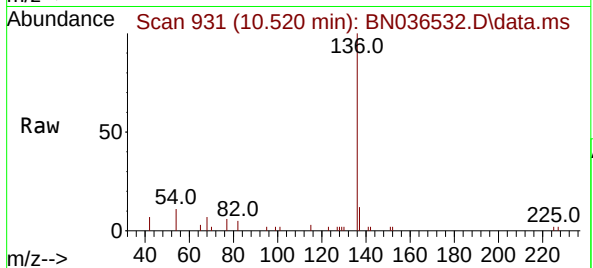
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

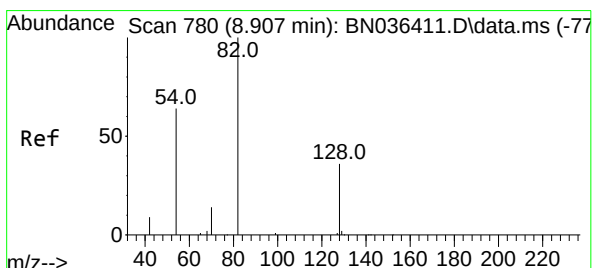
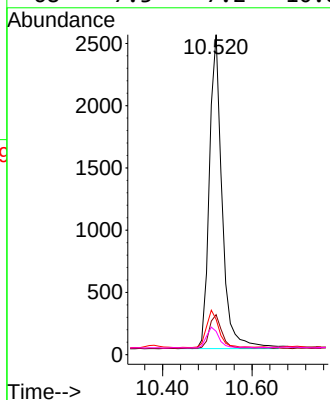
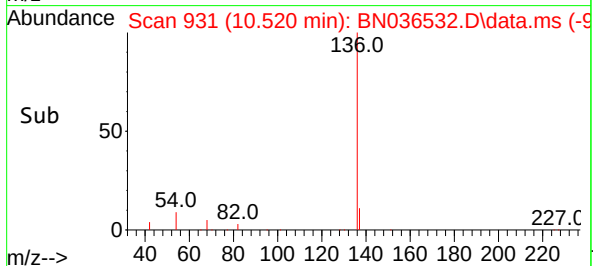


Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.1	15.1
54	11.1	11.8	17.6
68	7.3	7.2	10.8

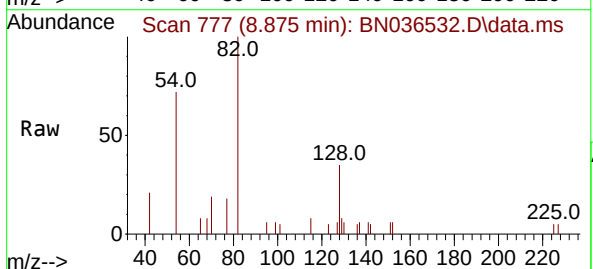
Manual Integrations

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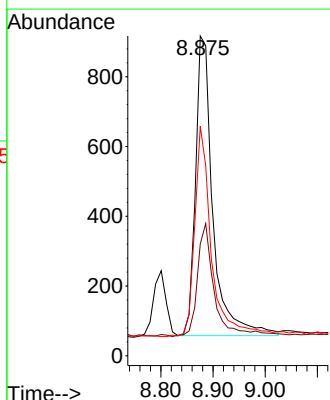
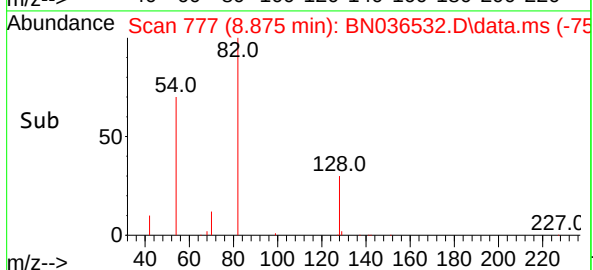
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

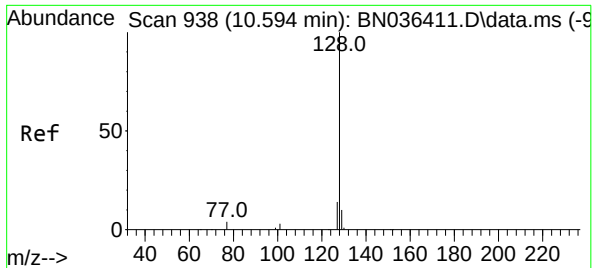


#8
Nitrobenzene-d5
Concen: 0.407 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55



Tgt Ion	Ratio	Lower	Upper
82	100		
128	35.0	31.9	47.9
54	71.8	53.1	79.7





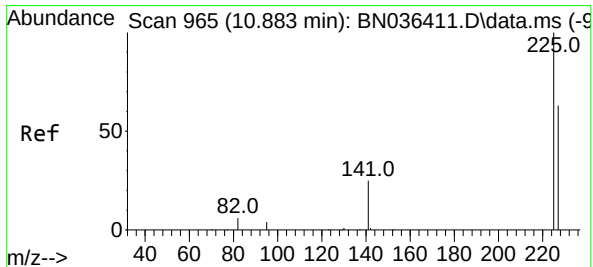
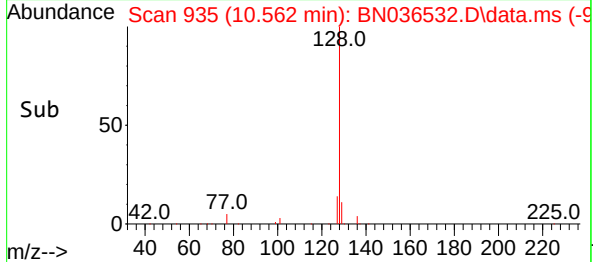
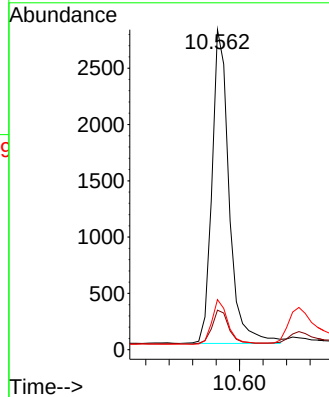
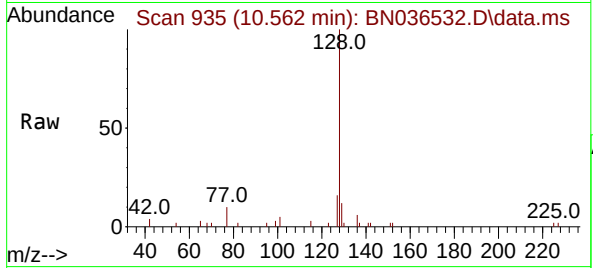
#9
Naphthalene
Concen: 0.394 ng
RT: 10.562 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 564
Ion Ratio Lower Upper
128 100
129 12.4 9.6 14.4
127 15.7 12.0 18.0

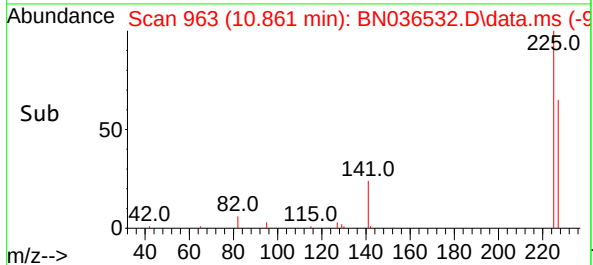
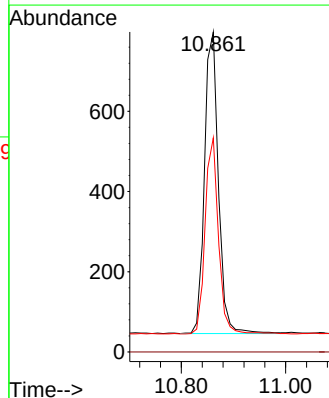
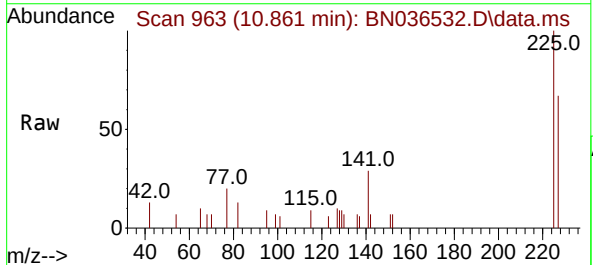
Manual Integrations
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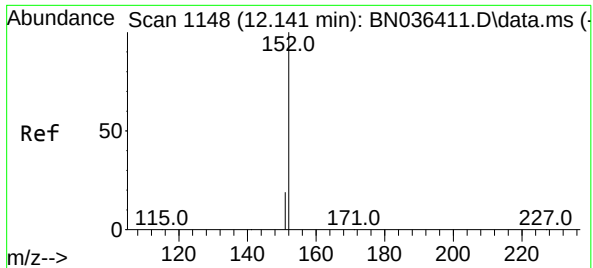
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#10
Hexachlorobutadiene
Concen: 0.399 ng
RT: 10.861 min Scan# 963
Delta R.T. 0.011 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

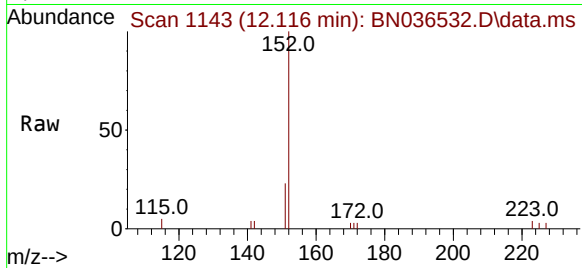
Tgt Ion:225 Resp: 1391
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.6 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 12.116 min Scan# 1143
Delta R.T. 0.010 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

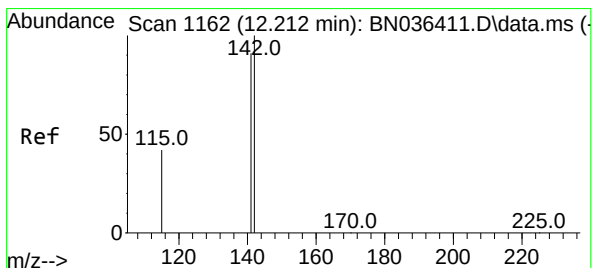
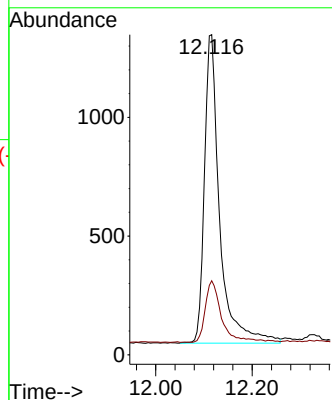
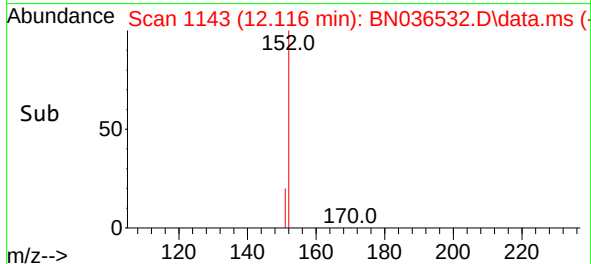
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 2849
Ion Ratio Lower Upper
152 100
151 21.4 16.6 25.0

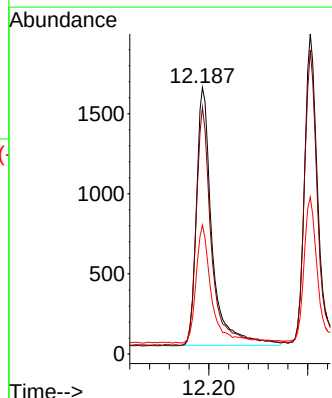
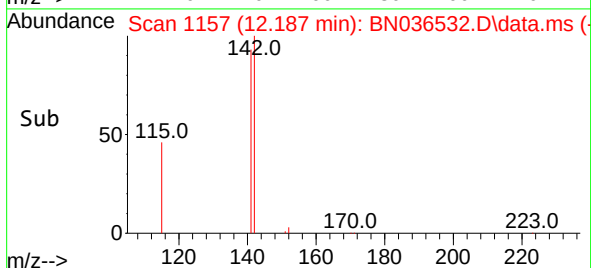
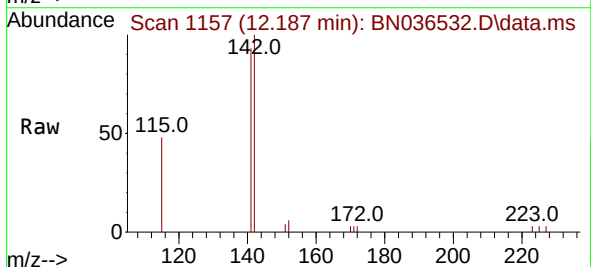
Manual Integrations
APPROVED

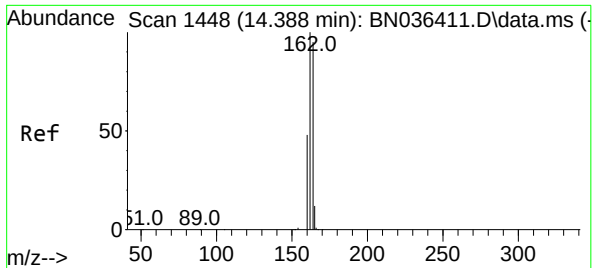
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#12
2-Methylnaphthalene
Concen: 0.378 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

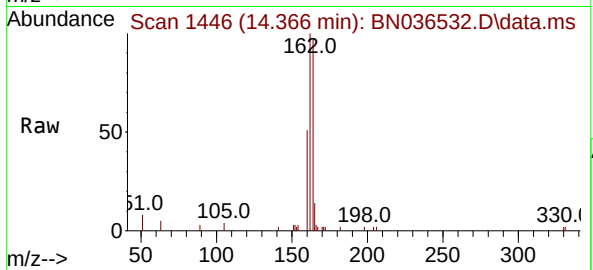
Tgt Ion:142 Resp: 3553
Ion Ratio Lower Upper
142 100
141 92.5 72.8 109.2
115 48.4 35.5 53.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

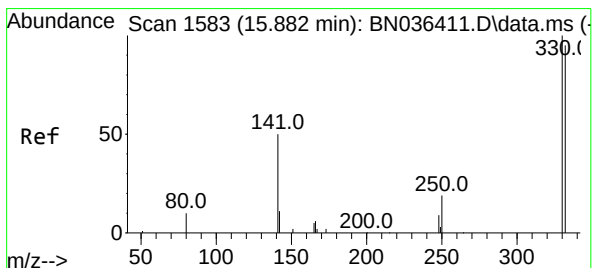
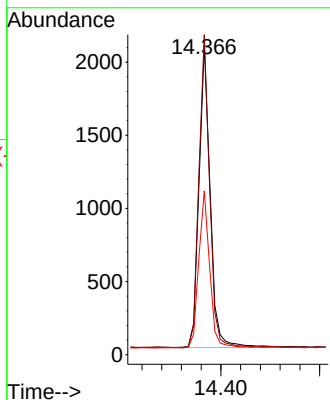
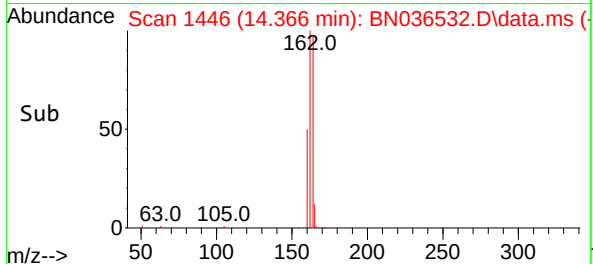
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



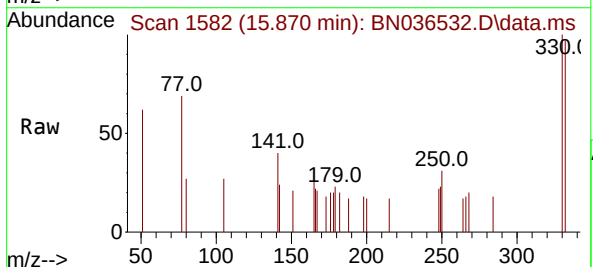
Tgt Ion:164 Resp: 325
Ion Ratio Lower Upper
164 100
162 103.3 84.1 126.1
160 52.9 41.4 62.0

Manual Integrations
APPROVED

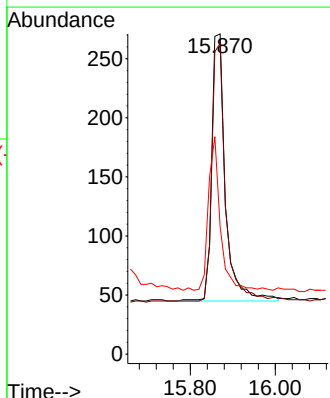
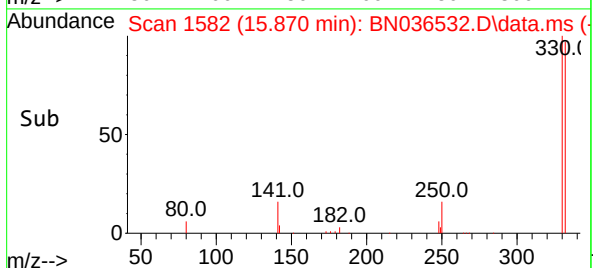
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

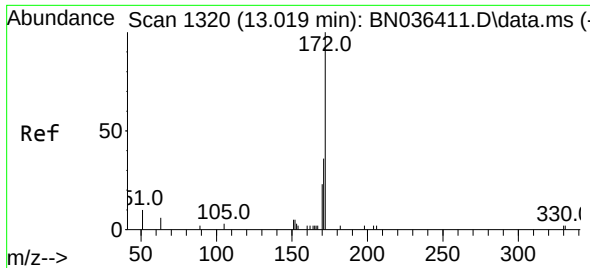


#14
2,4,6-Tribromophenol
Concen: 0.313 ng
RT: 15.870 min Scan# 1582
Delta R.T. 0.013 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55



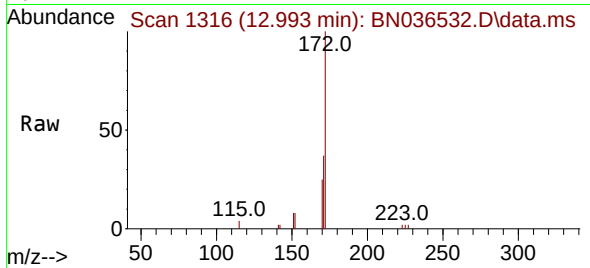
Tgt Ion:330 Resp: 505
Ion Ratio Lower Upper
330 100
332 95.2 76.6 114.8
141 49.9 37.8 56.8





#15
2-Fluorobiphenyl
Concen: 0.498 ng
RT: 12.993 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

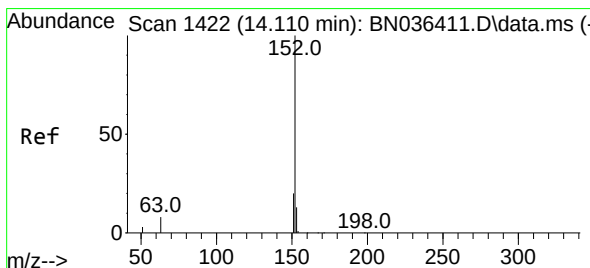
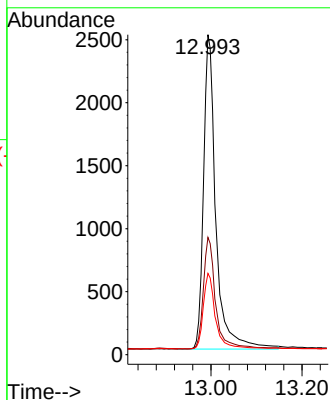
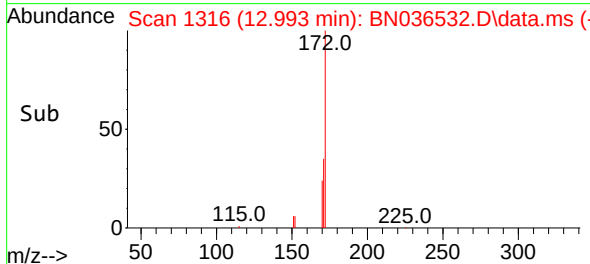
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:172 Resp: 609
Ion Ratio Lower Upper
172 100
171 36.7 29.6 44.4
170 25.4 19.8 29.6

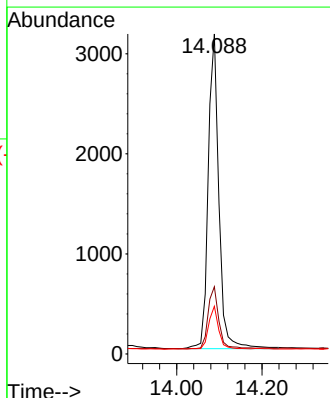
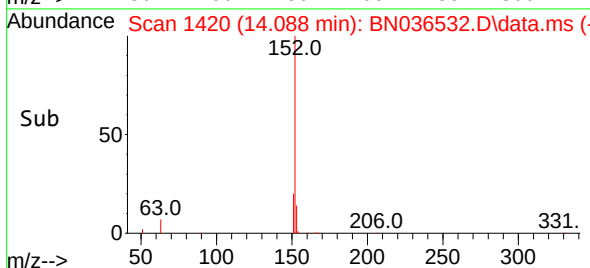
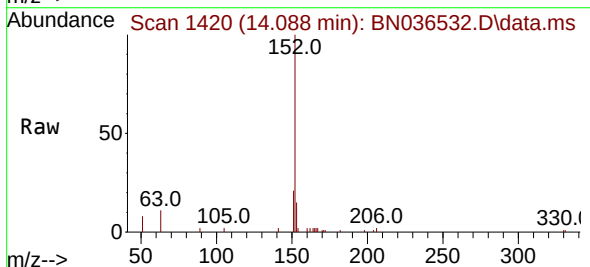
Manual Integrations
APPROVED

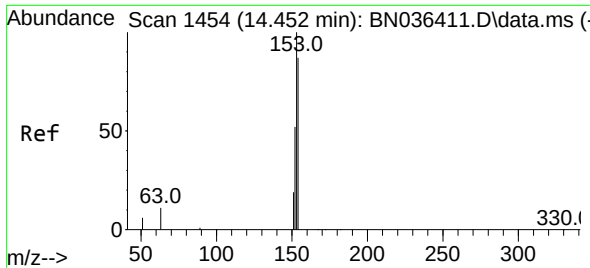
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

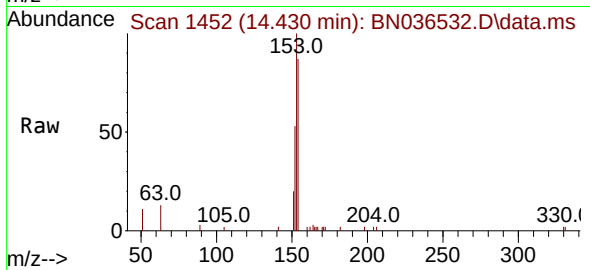
Tgt Ion:152 Resp: 5459
Ion Ratio Lower Upper
152 100
151 19.6 15.8 23.8
153 13.2 10.2 15.2





#17
Acenaphthene
Concen: 0.376 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

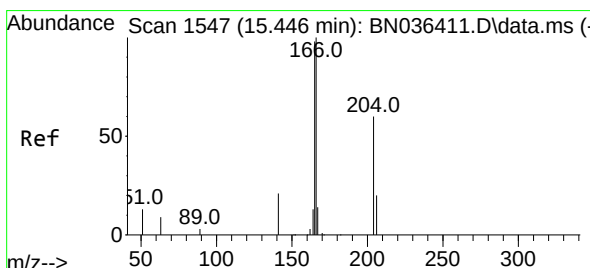
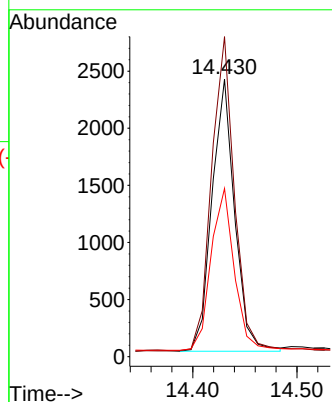
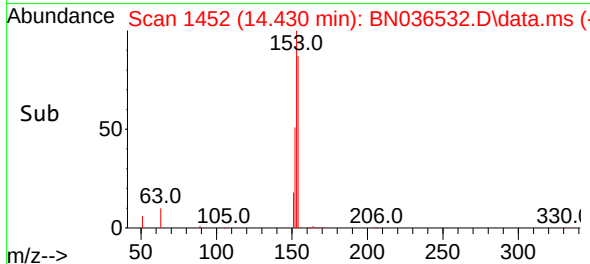
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 3608
Ion Ratio Lower Upper
154 100
153 118.7 93.3 139.9
152 61.9 48.8 73.2

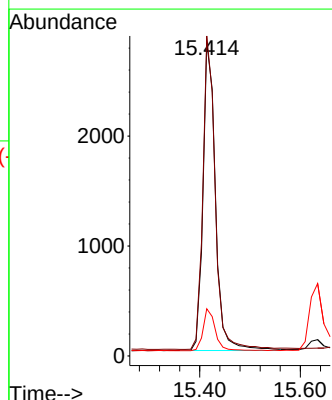
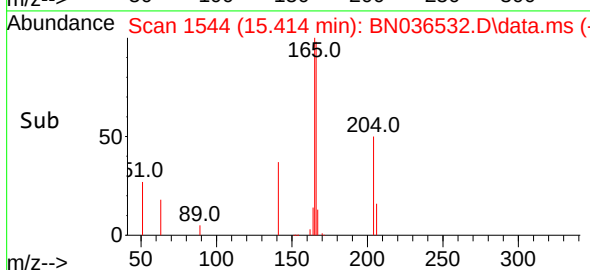
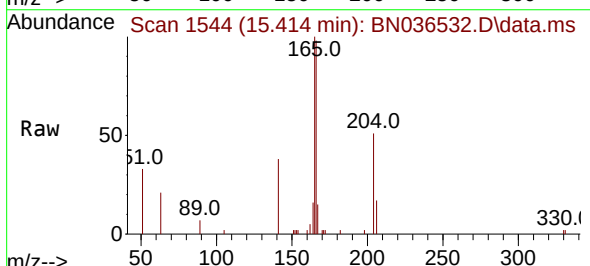
Manual Integrations
APPROVED

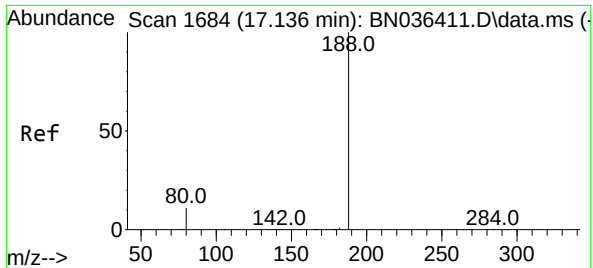
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#18
Fluorene
Concen: 0.364 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

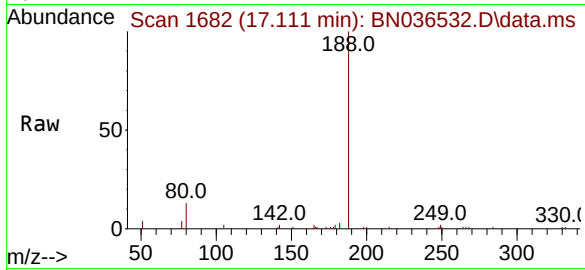
Tgt Ion:166 Resp: 4982
Ion Ratio Lower Upper
166 100
165 99.7 79.5 119.3
167 13.2 10.4 15.6





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

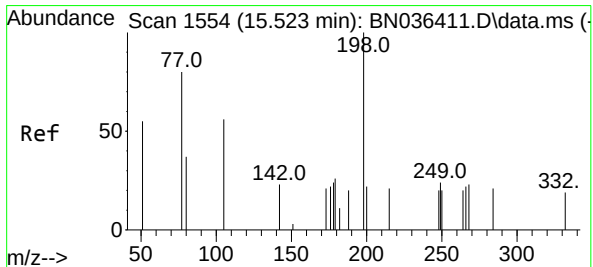
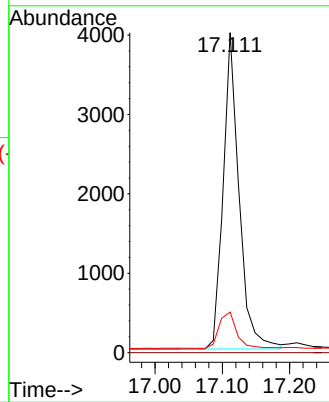
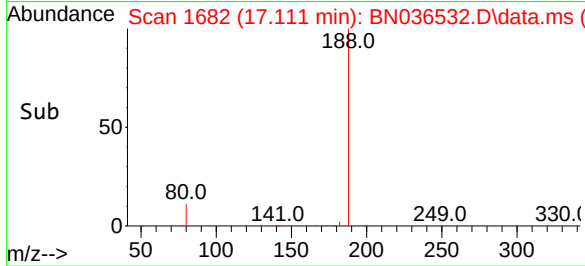
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



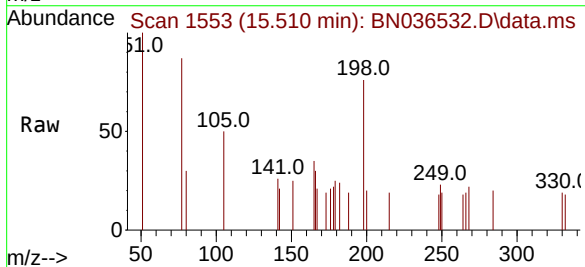
Tgt Ion:188 Resp: 652
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.7 9.8 14.6

Manual Integrations
APPROVED

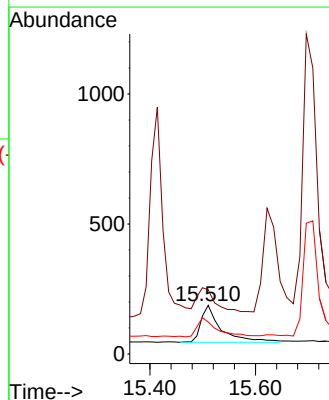
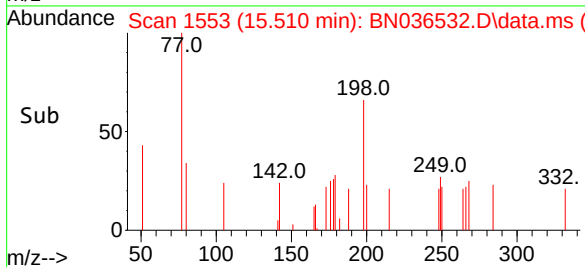
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

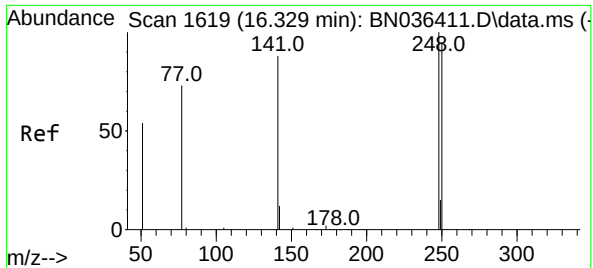


#20
4,6-Dinitro-2-methylphenol
Concen: 0.297 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55



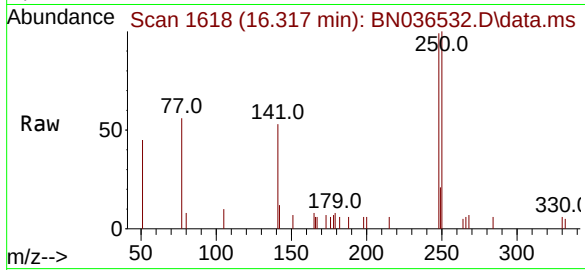
Tgt Ion:198 Resp: 380
Ion Ratio Lower Upper
198 100
51 132.1 86.6 129.8#
105 65.8 57.5 86.3





#21
4-Bromophenyl-phenylether
Concen: 0.390 ng
RT: 16.317 min Scan# 1618
Delta R.T. 0.012 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

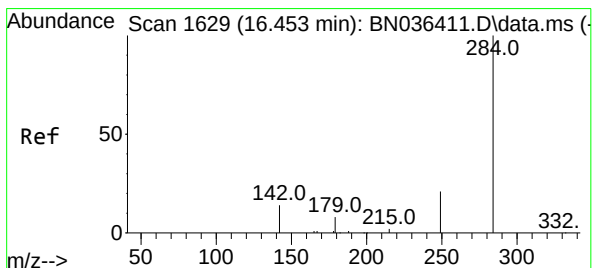
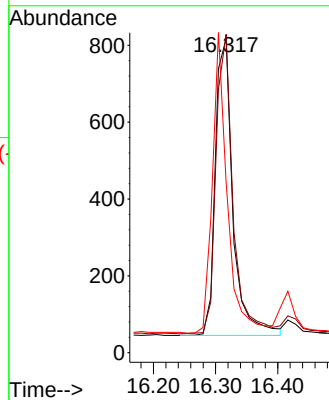
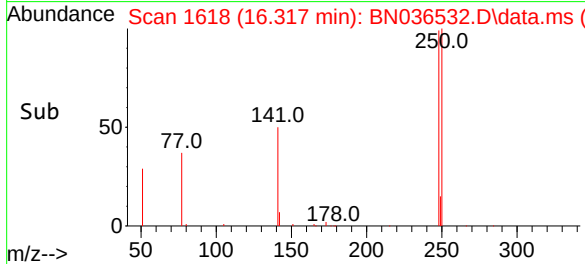
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:248 Resp: 1518
Ion Ratio Lower Upper
248 100
250 101.3 76.1 114.1
141 54.2 71.7 107.5

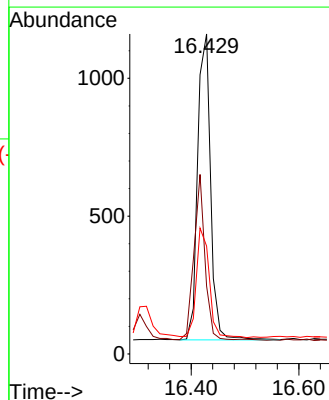
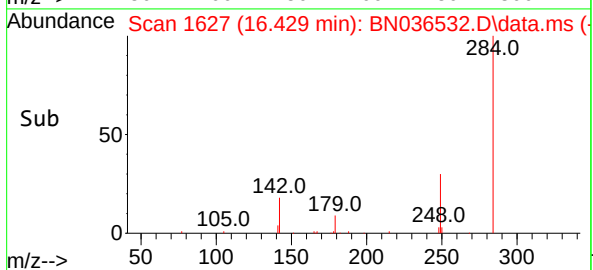
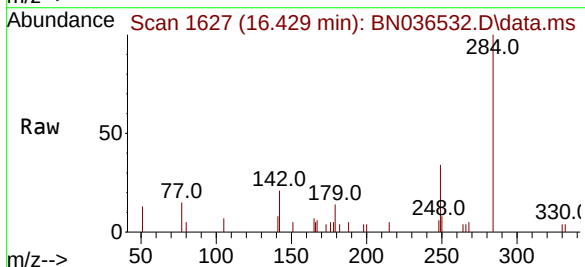
Manual Integrations
APPROVED

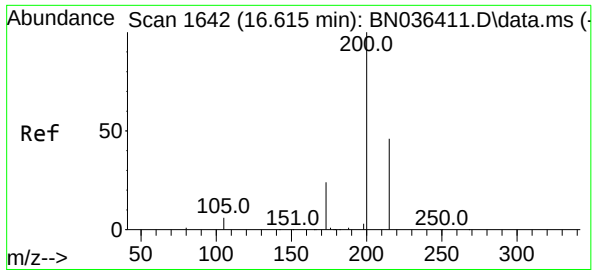
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#22
Hexachlorobenzene
Concen: 0.387 ng
RT: 16.429 min Scan# 1627
Delta R.T. 0.013 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

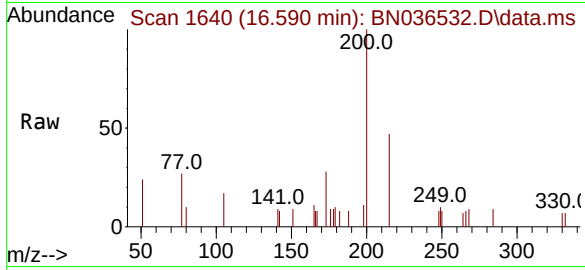
Tgt Ion:284 Resp: 1859
Ion Ratio Lower Upper
284 100
142 45.7 33.4 50.0
249 36.0 28.6 43.0





#23
Atrazine
Concen: 0.388 ng
RT: 16.590 min Scan# 1640
Delta R.T. 0.013 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

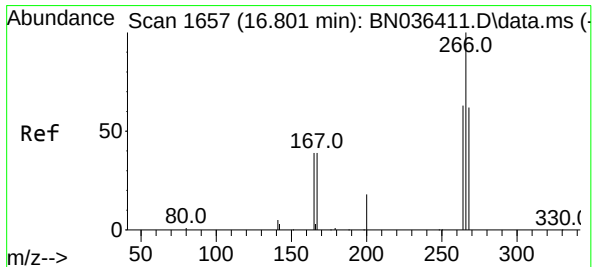
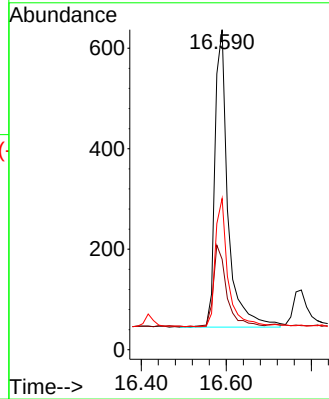
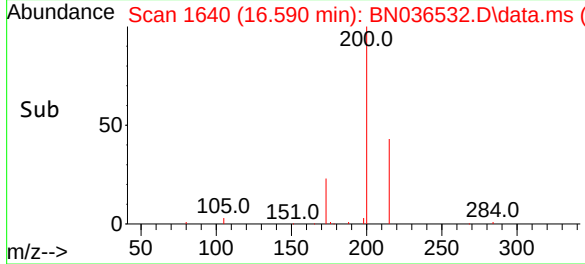
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



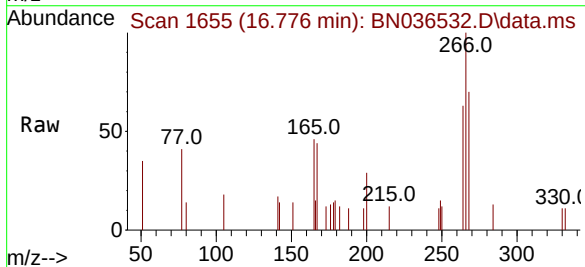
Tgt Ion:200 Resp: 126
Ion Ratio Lower Upper
200 100
173 28.3 23.2 34.8
215 47.3 40.0 60.0

Manual Integrations
APPROVED

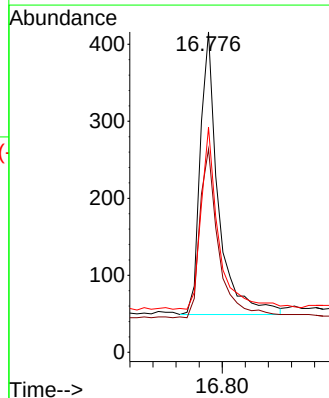
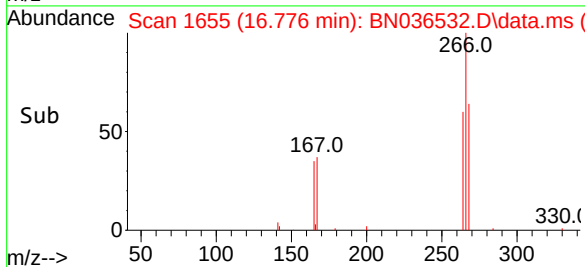
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

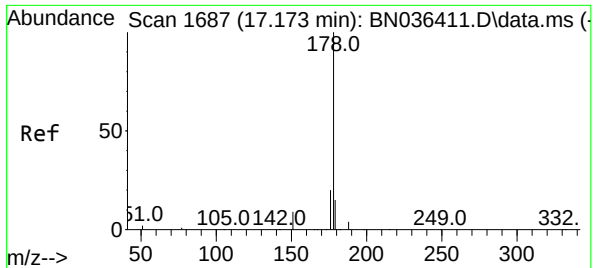


#24
Pentachlorophenol
Concen: 0.351 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.013 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55



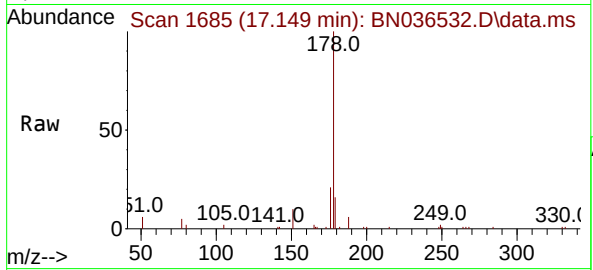
Tgt Ion:266 Resp: 801
Ion Ratio Lower Upper
266 100
264 62.3 50.6 76.0
268 62.0 51.9 77.9





#25
Phenanthrene
Concen: 0.397 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

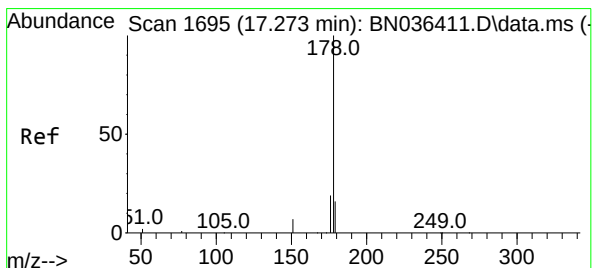
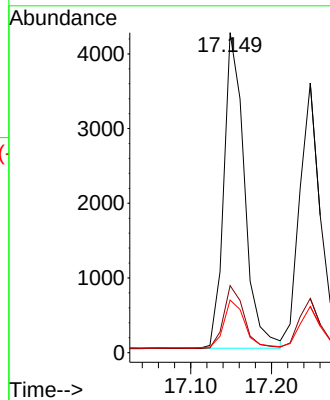
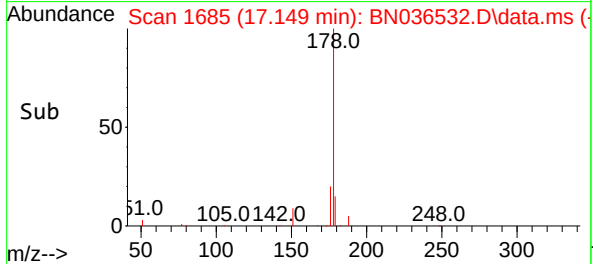
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:178 Resp: 749
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.5 12.4 18.6

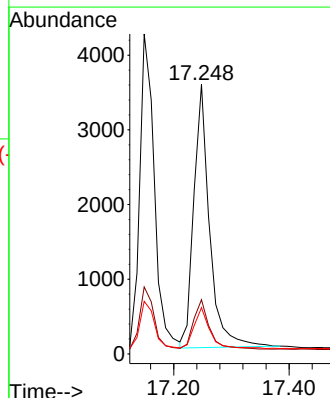
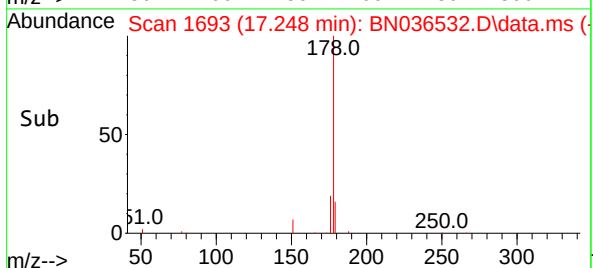
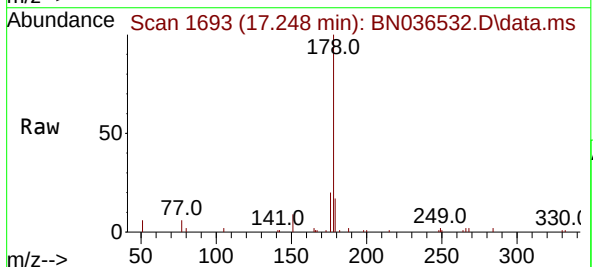
Manual Integrations
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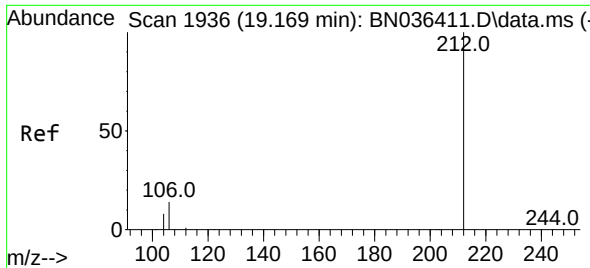
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#26
Anthracene
Concen: 0.403 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.013 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion:178 Resp: 6696
Ion Ratio Lower Upper
178 100
176 19.3 14.9 22.3
179 15.8 12.4 18.6





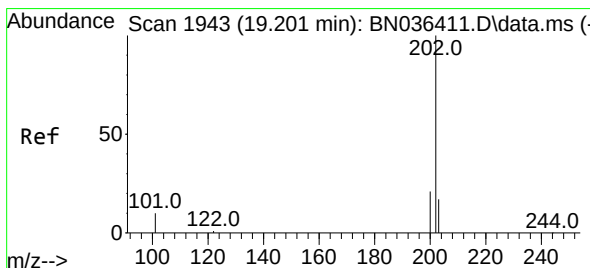
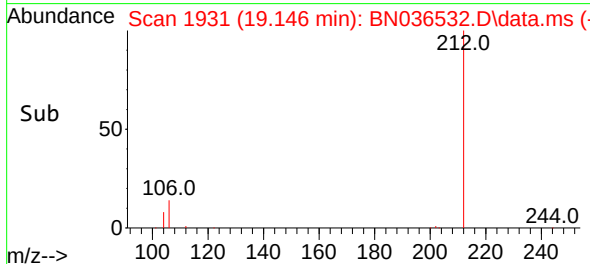
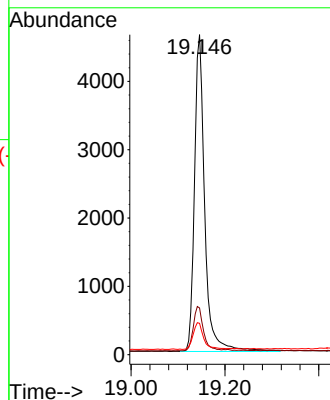
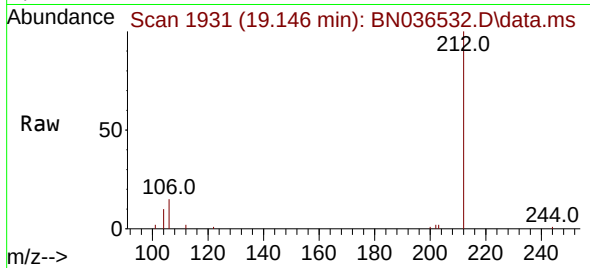
#27
Fluoranthene-d10
Concen: 0.388 ng
RT: 19.146 min Scan# 1931
Delta R.T. 0.005 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 7039
Ion Ratio Lower Upper
212 100
106 13.9 11.5 17.3
104 8.7 7.1 10.7

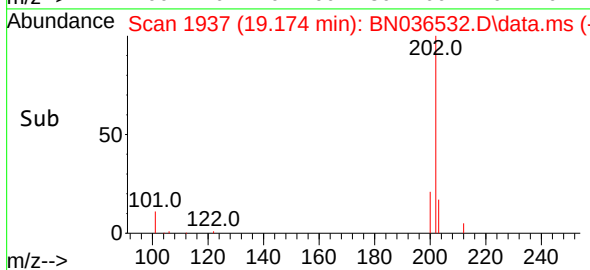
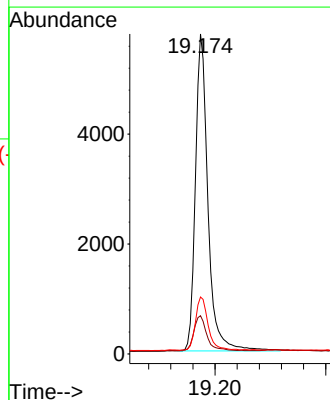
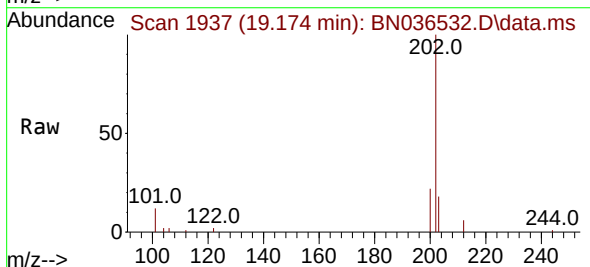
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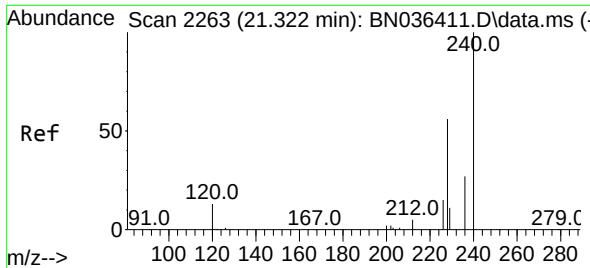
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#28
Fluoranthene
Concen: 0.392 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

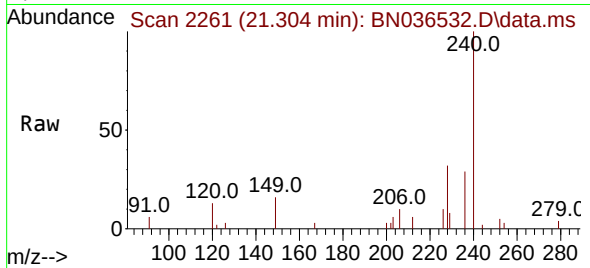
Tgt Ion:202 Resp: 9074
Ion Ratio Lower Upper
202 100
101 11.4 9.2 13.8
203 16.9 13.4 20.0





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

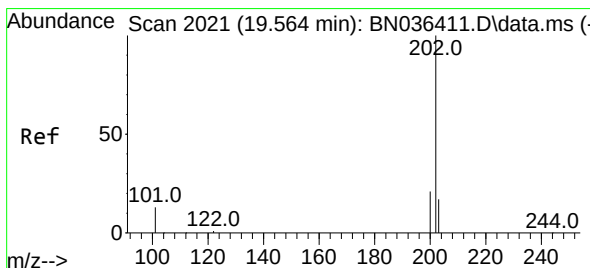
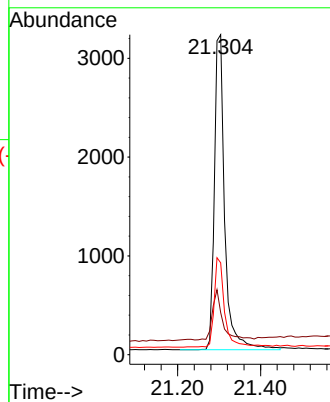
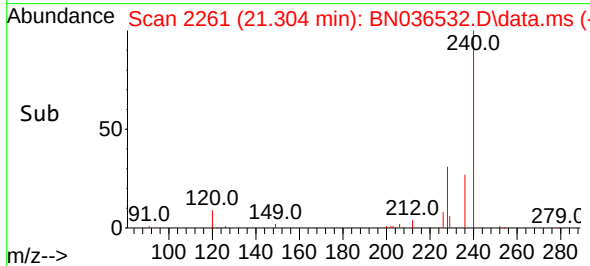
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



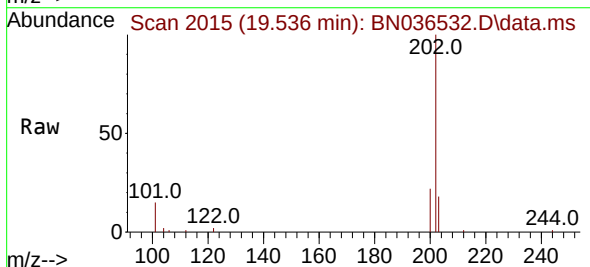
Tgt Ion:240 Resp: 5520
Ion Ratio Lower Upper
240 100
120 13.2 13.3 19.9
236 28.7 23.0 34.6

Manual Integrations
APPROVED

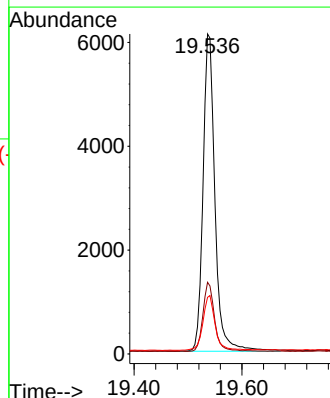
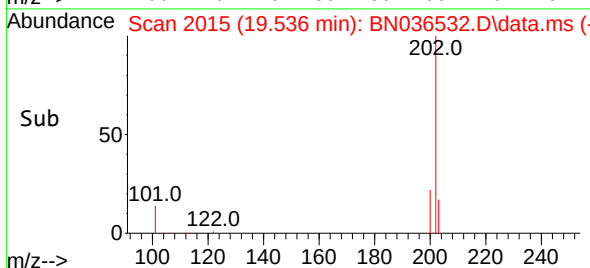
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

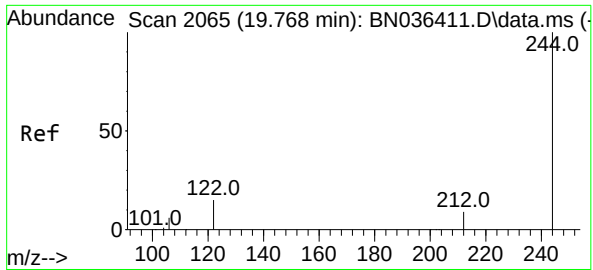


#30
Pyrene
Concen: 0.441 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55



Tgt Ion:202 Resp: 9367
Ion Ratio Lower Upper
202 100
200 21.3 16.9 25.3
203 17.5 13.9 20.9





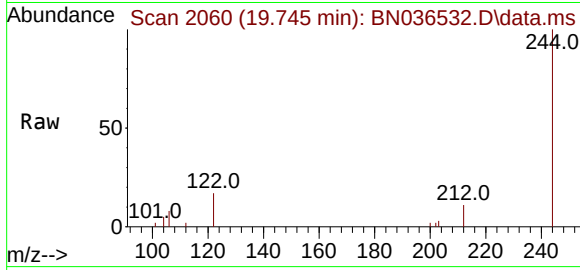
#31
Terphenyl-d14
Concen: 0.403 ng
RT: 19.745 min Scan# 2065
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

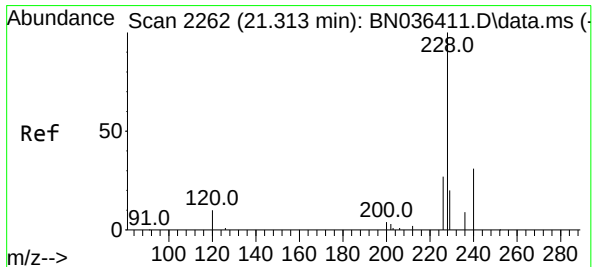
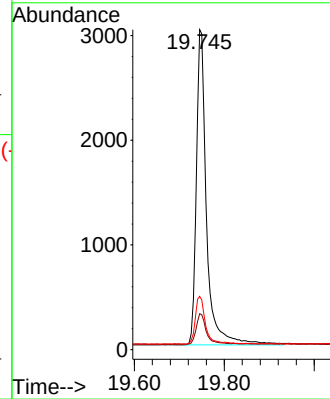
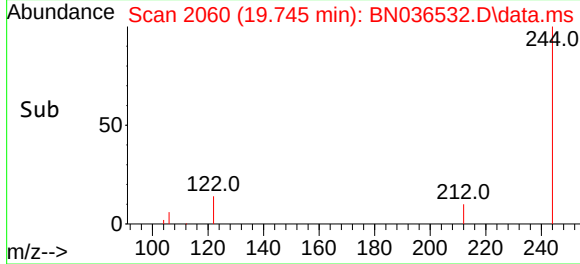


Tgt Ion:244 Resp: 475
Ion Ratio Lower Upper
244 100
212 11.3 8.1 12.1
122 16.7 12.8 19.2

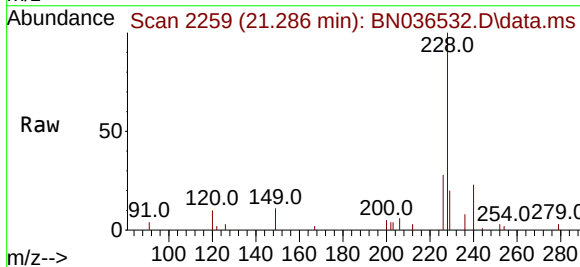
Manual Integrations

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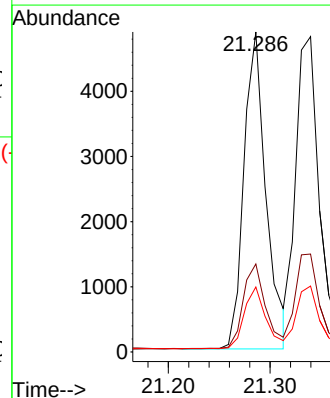
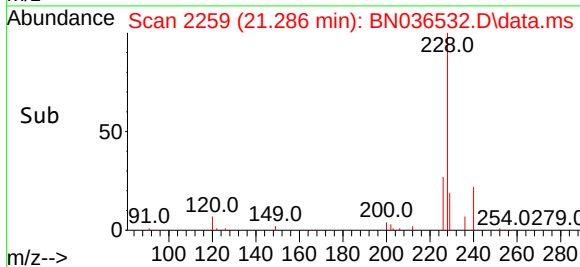
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

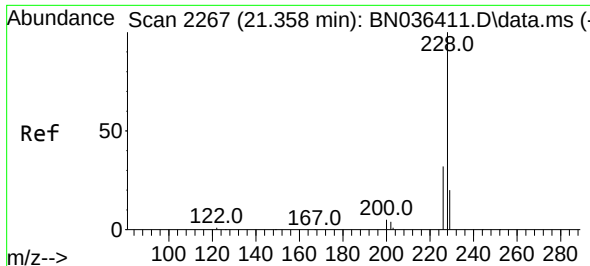


#32
Benzo(a)anthracene
Concen: 0.402 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.009 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55



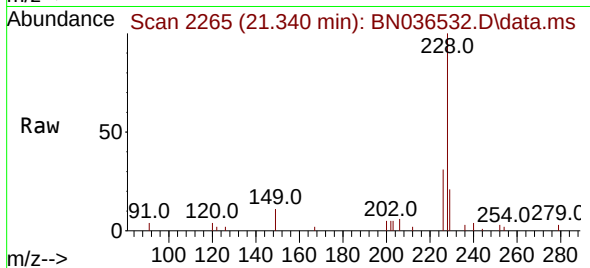
Tgt Ion:228 Resp: 7308
Ion Ratio Lower Upper
228 100
226 27.5 22.2 33.2
229 20.3 16.5 24.7





#33
Chrysene
Concen: 0.419 ng
RT: 21.340 min Scan# 2134
Delta R.T. 0.009 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

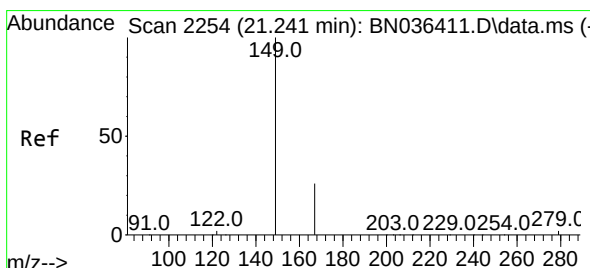
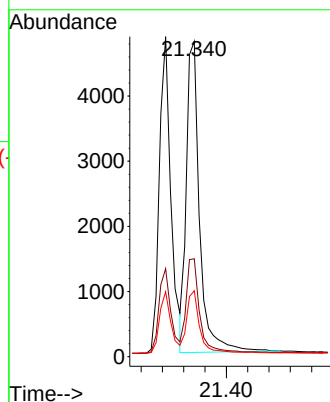
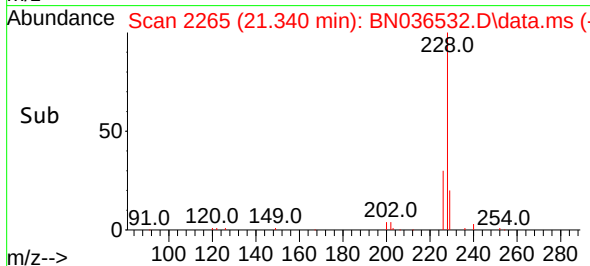
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:228 Resp: 823
Ion Ratio Lower Upper
228 100
226 31.1 25.5 38.3
229 20.9 16.4 24.6

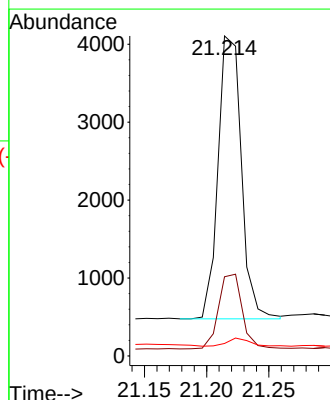
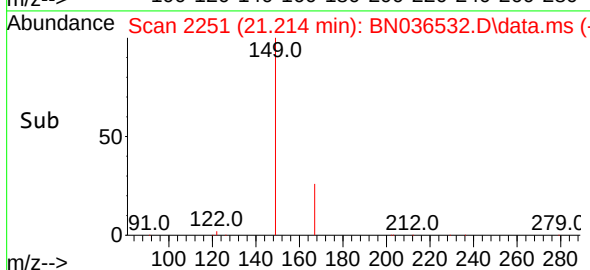
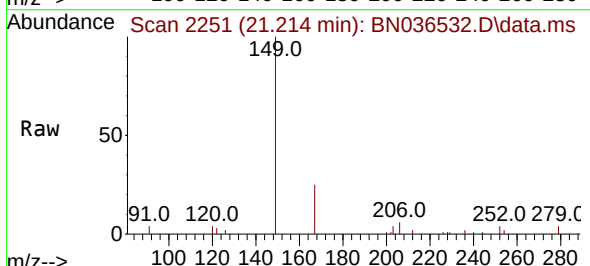
Manual Integrations
APPROVED

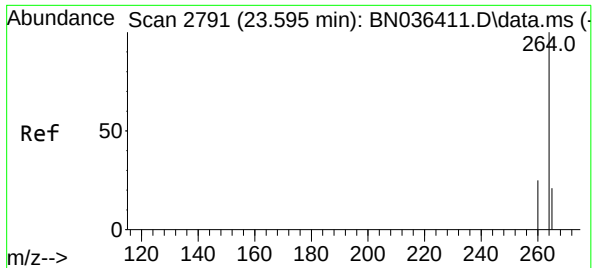
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.419 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

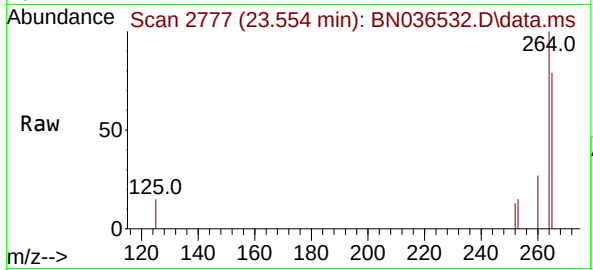
Tgt Ion:149 Resp: 4739
Ion Ratio Lower Upper
149 100
167 27.0 21.2 31.8
279 2.8 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

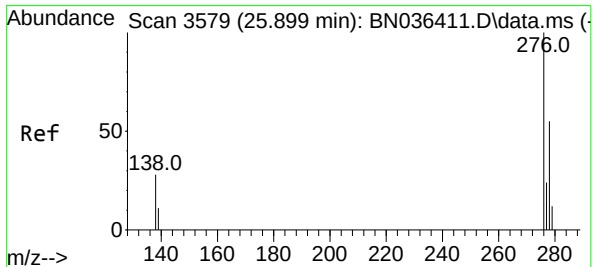
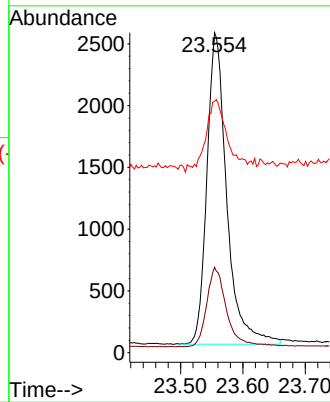
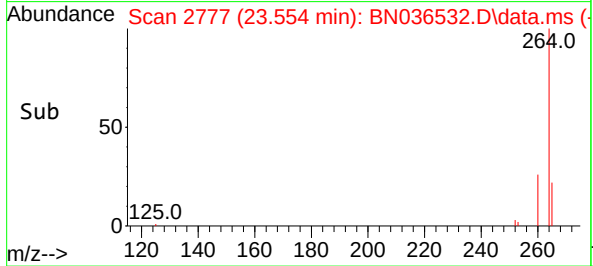
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



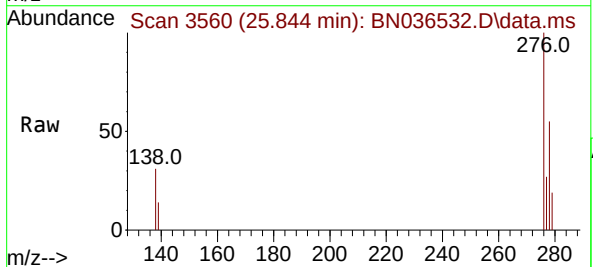
Tgt Ion:264 Resp: 558
Ion Ratio Lower Upper
264 100
260 26.7 20.9 31.3
265 78.6 60.7 91.1

Manual Integrations
APPROVED

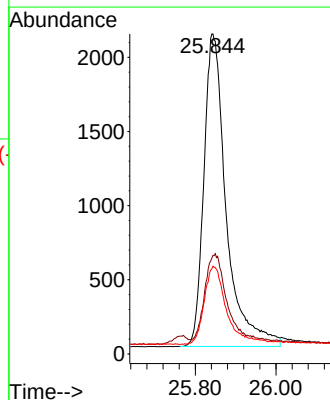
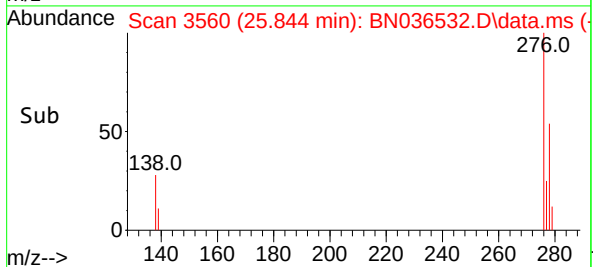
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

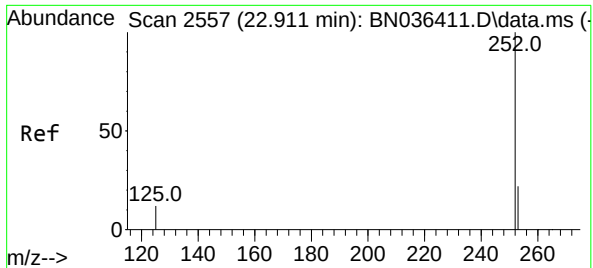


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.416 ng
RT: 25.844 min Scan# 3560
Delta R.T. 0.006 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55



Tgt Ion:276 Resp: 8122
Ion Ratio Lower Upper
276 100
138 26.9 22.2 33.2
277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.420 ng m

RT: 22.876 min Scan# 2545

Delta R.T. 0.003 min

Lab File: BN036532.D

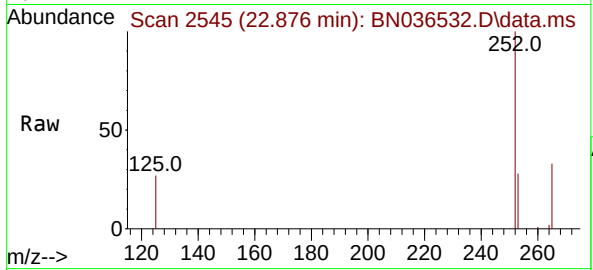
Acq: 05 Mar 2025 19:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

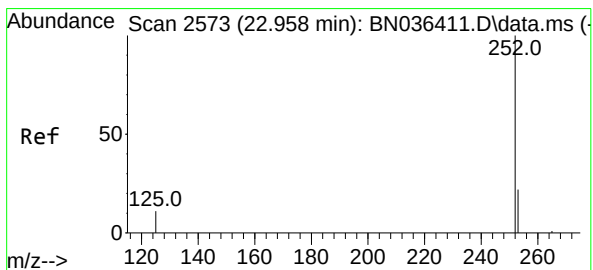
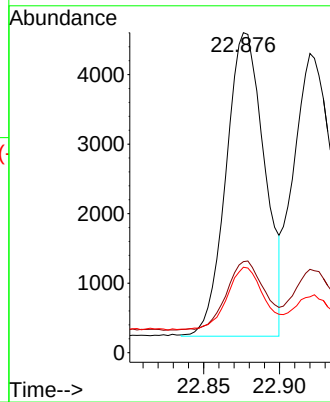
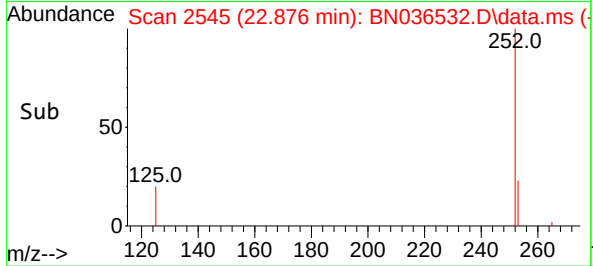


Tgt Ion:	252	Resp:	771
Ion Ratio	Lower	Upper	
252	100		
253	28.4	21.9	32.9
125	26.7	15.0	22.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#38

Benzo(k)fluoranthene

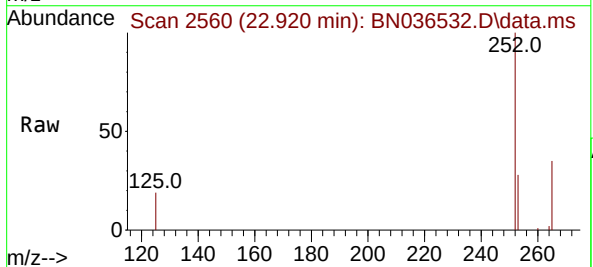
Concen: 0.427 ng

RT: 22.920 min Scan# 2560

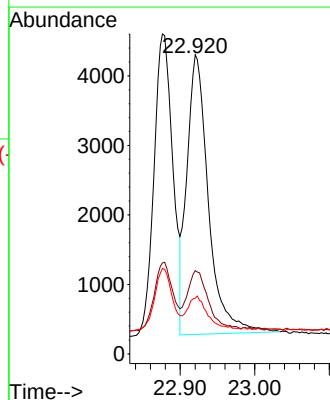
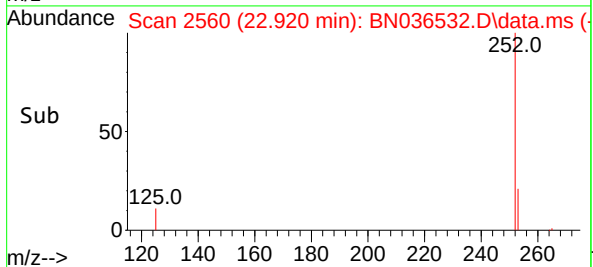
Delta R.T. 0.003 min

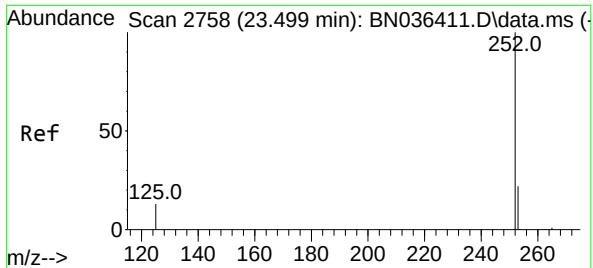
Lab File: BN036532.D

Acq: 05 Mar 2025 19:55



Tgt Ion:	252	Resp:	8080
Ion Ratio	Lower	Upper	
252	100		
253	27.9	22.2	33.4
125	18.7	15.0	22.4





#39

Benzo(a)pyrene

Concen: 0.430 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036532.D

Acq: 05 Mar 2025 19:55

Instrument :

BNA_N

ClientSampleId :

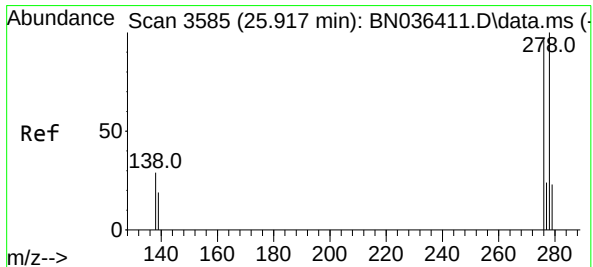
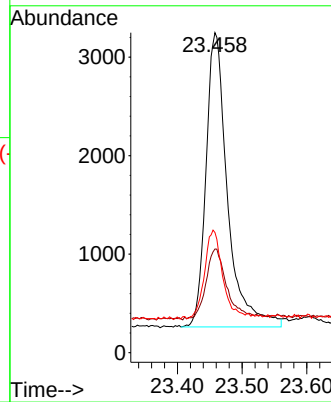
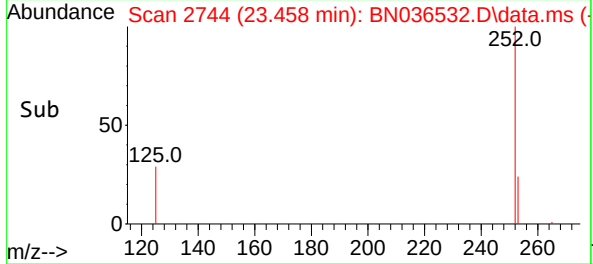
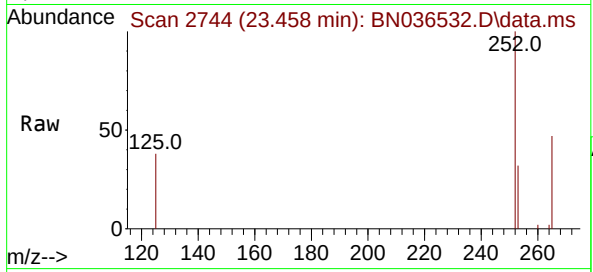
SSTDCCC0.4EC

Tgt Ion:	252	Resp:	690
Ion Ratio	Lower	Upper	
252	100		
253	32.4	24.4	36.6
125	37.6	18.2	27.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.406 ng

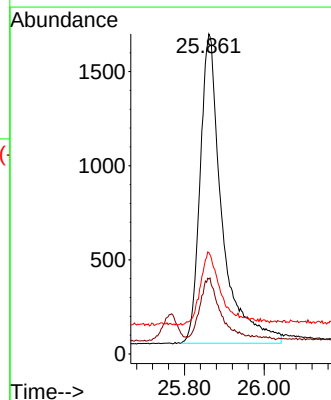
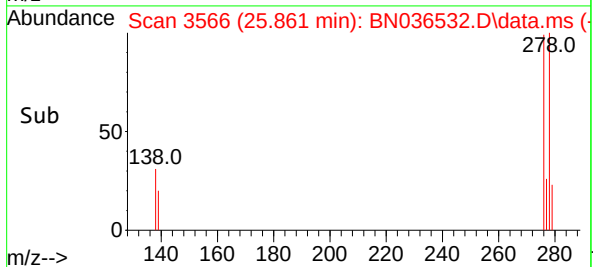
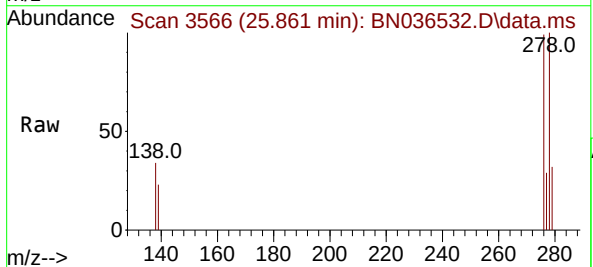
RT: 25.861 min Scan# 3566

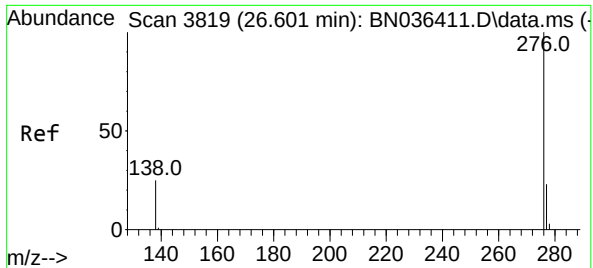
Delta R.T. 0.009 min

Lab File: BN036532.D

Acq: 05 Mar 2025 19:55

Tgt Ion:	278	Resp:	6252
Ion Ratio	Lower	Upper	
278	100		
139	23.4	18.5	27.7
279	31.7	24.8	37.2





#41

Benzo(g,h,i)perylene

Concen: 0.414 ng

RT: 26.540 min Scan# 31

Delta R.T. 0.012 min

Lab File: BN036532.D

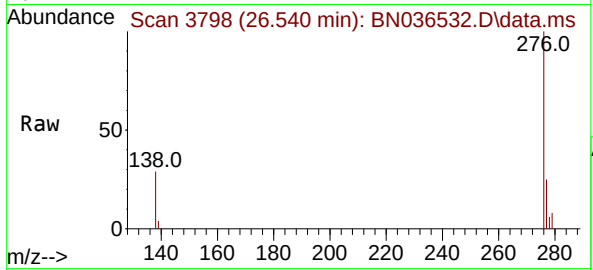
Acq: 05 Mar 2025 19:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion: 276 Resp: 723

Ion Ratio Lower Upper

276 100

277 25.3 20.7 31.1

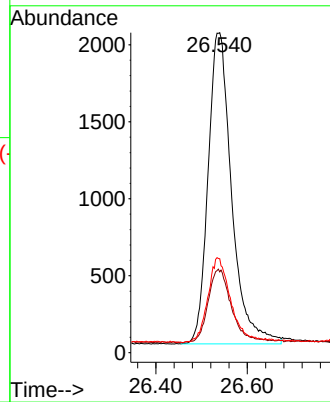
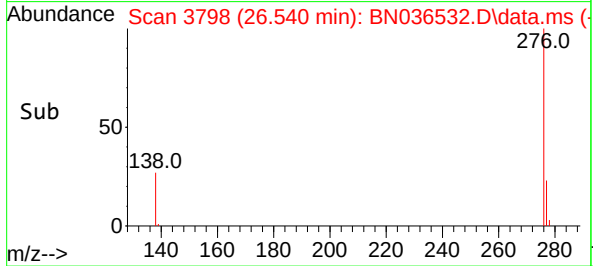
138 29.3 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/06/2025

Supervised By :Jagrut Upadhyay 03/06/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
 Data File : BN036532.D
 Acq On : 05 Mar 2025 19:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 06 00:03:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 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	93	0.00
2	1,4-Dioxane	0.438	0.457	-4.3	98	0.00
3	n-Nitrosodimethylamine	0.760	0.869	-14.3	106	0.00
4 S	2-Fluorophenol	0.945	0.895	5.3	89	0.00
5 S	Phenol-d6	1.109	1.058	4.6	95	0.00
6	bis(2-Chloroethyl)ether	1.160	1.147	1.1	98	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	90	0.01
8 S	Nitrobenzene-d5	0.395	0.402	-1.8	99	0.00
9	Naphthalene	1.154	1.136	1.6	92	0.00
10	Hexachlorobutadiene	0.281	0.280	0.4	89	0.01
11 SURR	2-Methylnaphthalene-d10	0.615	0.573	6.8	86	0.01
12	2-Methylnaphthalene	0.757	0.715	5.5	87	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	90	0.00
14 S	2,4,6-Tribromophenol	0.198	0.155	21.7	75	0.01
15 S	2-Fluorobiphenyl	1.504	1.873	-24.5	123	0.00
16	Acenaphthylene	1.767	1.677	5.1	89	0.01
17	Acenaphthene	1.180	1.108	6.1	87	0.00
18	Fluorene	1.680	1.531	8.9	83	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	78	0.00
20	4,6-Dinitro-2-methylphenol	0.078	0.058	25.6#	66	0.01
21	4-Bromophenyl-phenylether	0.239	0.233	2.5	79	0.01
22	Hexachlorobenzene	0.295	0.285	3.4	78	0.01
23	Atrazine	0.199	0.193	3.0	81	0.01
24	Pentachlorophenol	0.140	0.123	12.1	79	0.01
25	Phenanthrene	1.156	1.149	0.6	82	0.00
26	Anthracene	1.020	1.027	-0.7	83	0.01
27 SURR	Fluoranthene-d10	1.112	1.079	3.0	80	0.00
28	Fluoranthene	1.421	1.391	2.1	81	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	74	0.00
30	Pyrene	1.541	1.697	-10.1	82	0.00
31 S	Terphenyl-d14	0.854	0.861	-0.8	74	0.00
32	Benzo(a)anthracene	1.316	1.324	-0.6	76	0.00
33	Chrysene	1.425	1.492	-4.7	81	0.00
34	Bis(2-ethylhexyl)phthalate	0.820	0.859	-4.8	81	0.00
35 I	Perylene-d12	1.000	1.000	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	1.398	1.455	-4.1	76	0.00
37	Benzo(b)fluoranthene	1.317	1.382	-4.9	79	0.00
38	Benzo(k)fluoranthene	1.356	1.447	-6.7	77	0.00
39 C	Benzo(a)pyrene	1.150	1.236	-7.5	81	0.00
40	Dibenzo(a,h)anthracene	1.103	1.120	-1.5	75	0.00
41	Benzo(g,h,i)perylene	1.250	1.296	-3.7	75	0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
 Data File : BN036532.D
 Acq On : 05 Mar 2025 19:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Mar 06 00:03:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 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	93	0.00
2	1,4-Dioxane	0.400	0.417	-4.2	98	0.00
3	n-Nitrosodimethylamine	0.400	0.457	-14.2	106	0.00
4 S	2-Fluorophenol	0.400	0.379	5.3	89	0.00
5 S	Phenol-d6	0.400	0.381	4.8	95	0.00
6	bis(2-Chloroethyl)ether	0.400	0.396	1.0	98	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	90	0.01
8 S	Nitrobenzene-d5	0.400	0.407	-1.7	99	0.00
9	Naphthalene	0.400	0.394	1.5	92	0.00
10	Hexachlorobutadiene	0.400	0.399	0.3	89	0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.373	6.8	86	0.01
12	2-Methylnaphthalene	0.400	0.378	5.5	87	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	90	0.00
14 S	2,4,6-Tribromophenol	0.400	0.313	21.8	75	0.01
15 S	2-Fluorobiphenyl	0.400	0.498	-24.5	123	0.00
16	Acenaphthylene	0.400	0.380	5.0	89	0.01
17	Acenaphthene	0.400	0.376	6.0	87	0.00
18	Fluorene	0.400	0.364	9.0	83	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	78	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.297	25.8#	66	0.01
21	4-Bromophenyl-phenylether	0.400	0.390	2.5	79	0.01
22	Hexachlorobenzene	0.400	0.387	3.3	78	0.01
23	Atrazine	0.400	0.388	3.0	81	0.01
24	Pentachlorophenol	0.400	0.351	12.3	79	0.01
25	Phenanthrene	0.400	0.397	0.8	82	0.00
26	Anthracene	0.400	0.403	-0.8	83	0.01
27 SURR	Fluoranthene-d10	0.400	0.388	3.0	80	0.00
28	Fluoranthene	0.400	0.392	2.0	81	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	74	0.00
30	Pyrene	0.400	0.441	-10.2	82	0.00
31 S	Terphenyl-d14	0.400	0.403	-0.8	74	0.00
32	Benzo(a)anthracene	0.400	0.402	-0.5	76	0.00
33	Chrysene	0.400	0.419	-4.7	81	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.419	-4.7	81	0.00
35 I	Perylene-d12	0.400	0.400	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.416	-4.0	76	0.00
37	Benzo(b)fluoranthene	0.400	0.420	-5.0	79	0.00
38	Benzo(k)fluoranthene	0.400	0.427	-6.7	77	0.00
39 C	Benzo(a)pyrene	0.400	0.430	-7.5	81	0.00
40	Dibenzo(a,h)anthracene	0.400	0.406	-1.5	75	0.00
41	Benzo(g,h,i)perylene	0.400	0.414	-3.5	75	0.01

(#) = Out of Range

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



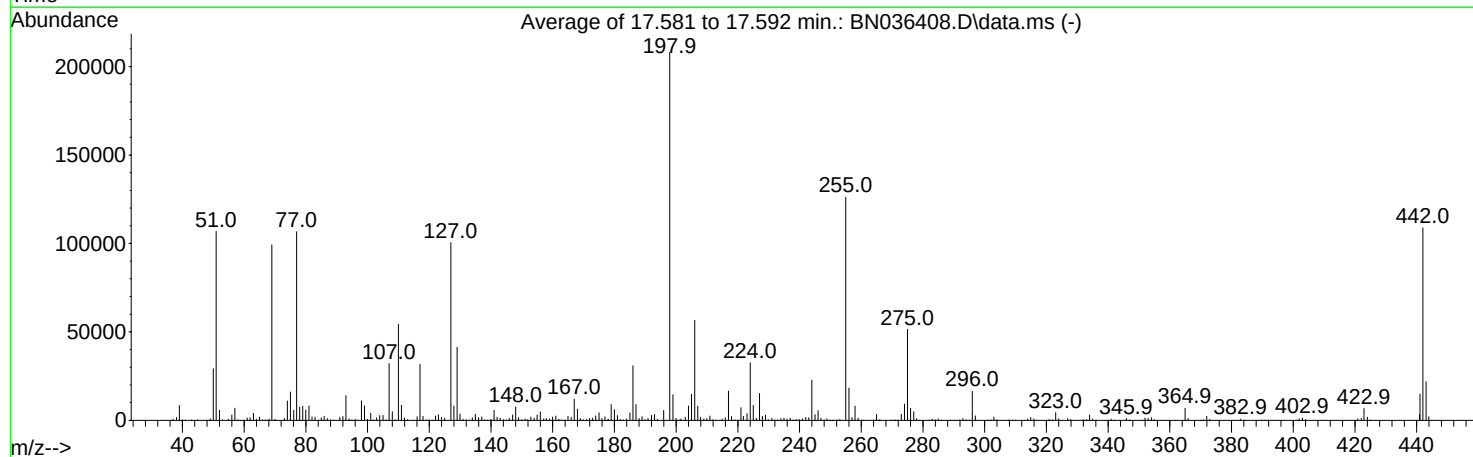
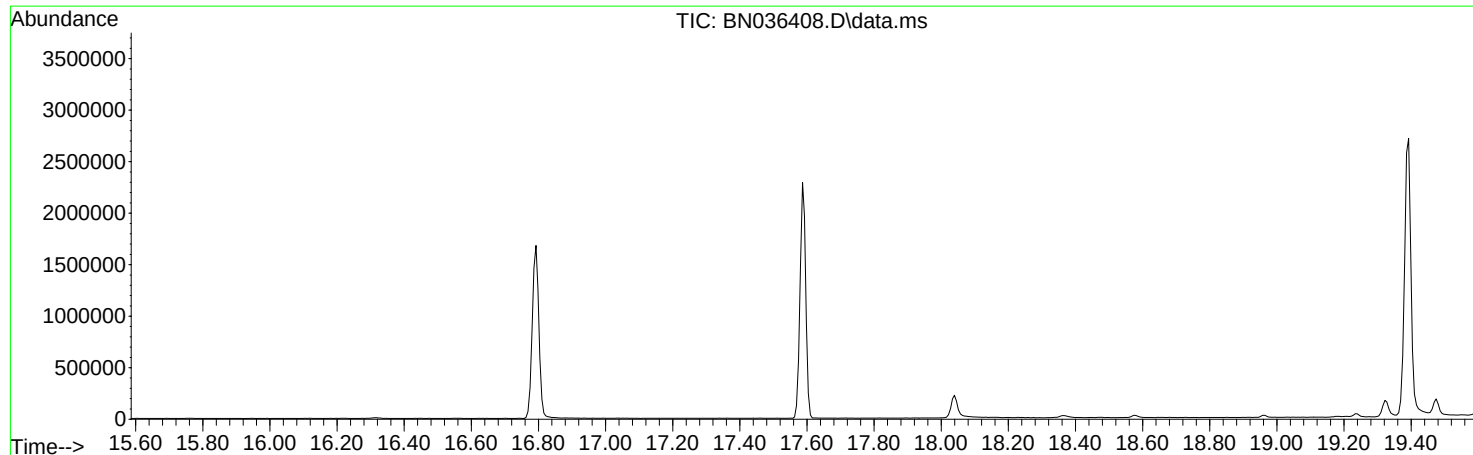
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036408.D
Acq On : 10 Feb 2025 11:46
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-BN021025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Feb 11 01:17:14 2025



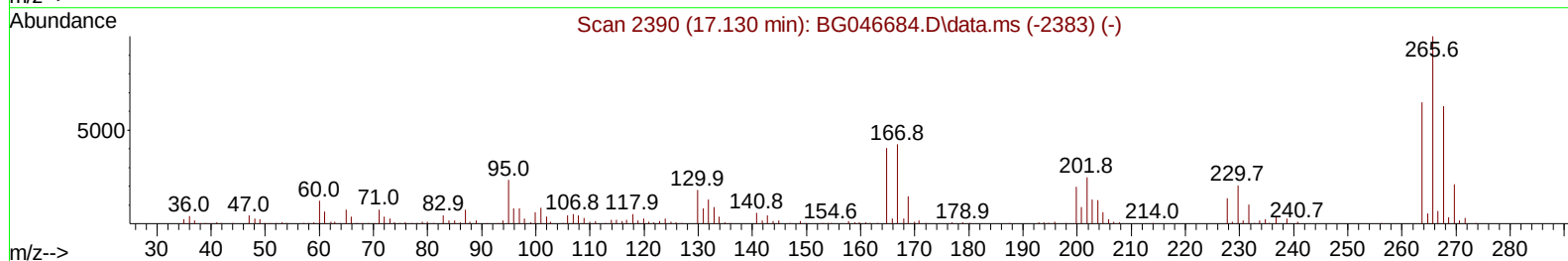
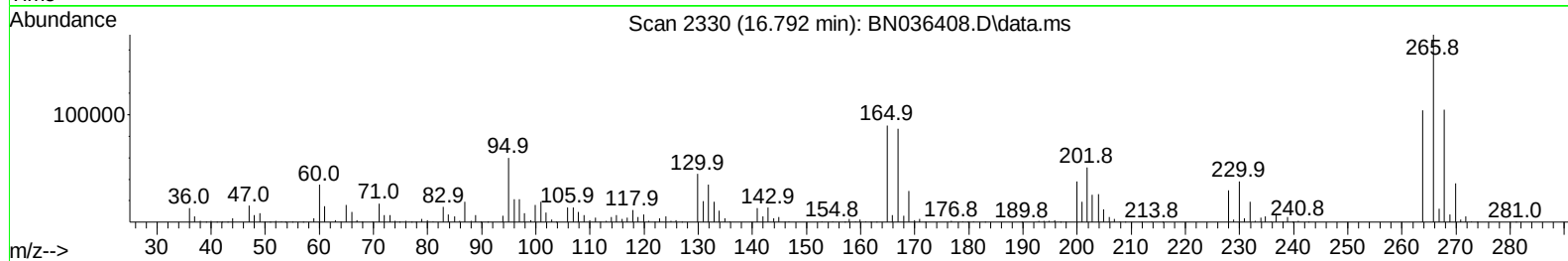
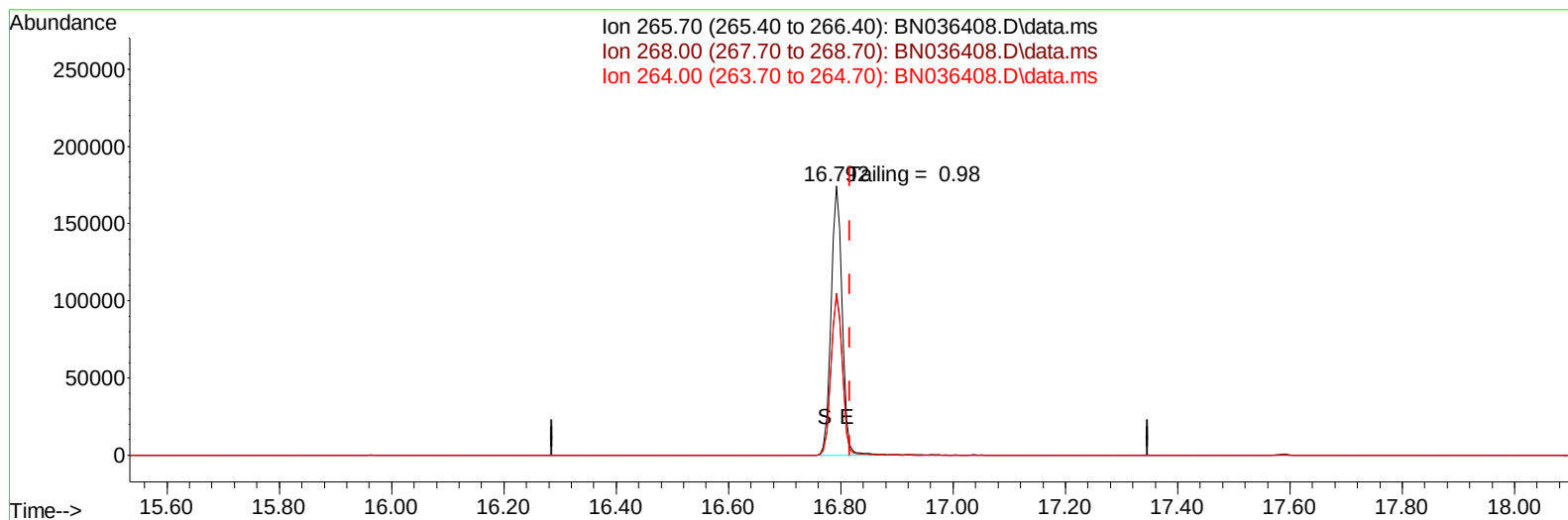
AutoFind: Scans 2464, 2465, 2466; Background Corrected with Scan 2458

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	51.4	106809	PASS
68	69	0.00	2	0.7	724	PASS
69	198	0.00	100	47.7	99211	PASS
70	69	0.00	2	0.6	601	PASS
127	198	10	80	48.3	100501	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	207936	PASS
199	198	5	9	7.0	14493	PASS
275	198	10	60	24.7	51437	PASS
365	198	1	100	3.3	6829	PASS
441	198	0.01	100	7.1	14816	PASS
442	442	50	100	100.0	108824	PASS
443	442	15	24	20.1	21911	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036408.D
Acq On : 10 Feb 2025 11:46
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Feb 11 01:55:02 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: BN036408.D\data.ms

(70) Pentachlorophenol (C)

16.792min (-0.024) 22697.76 ng

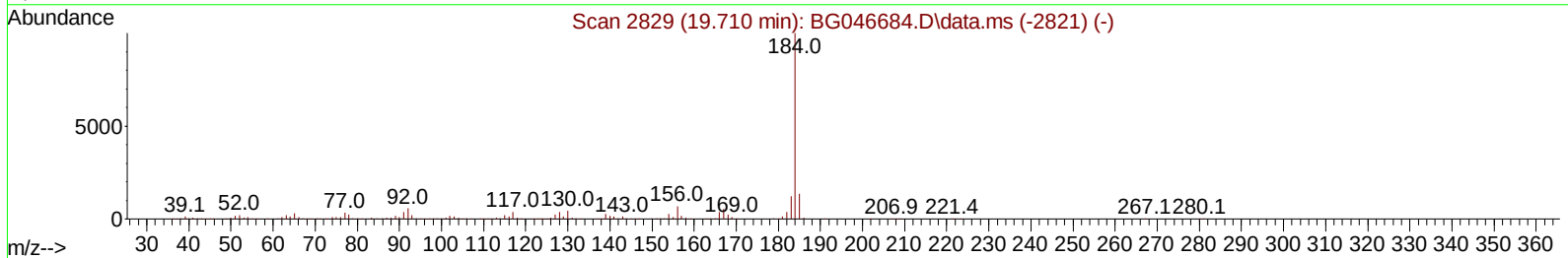
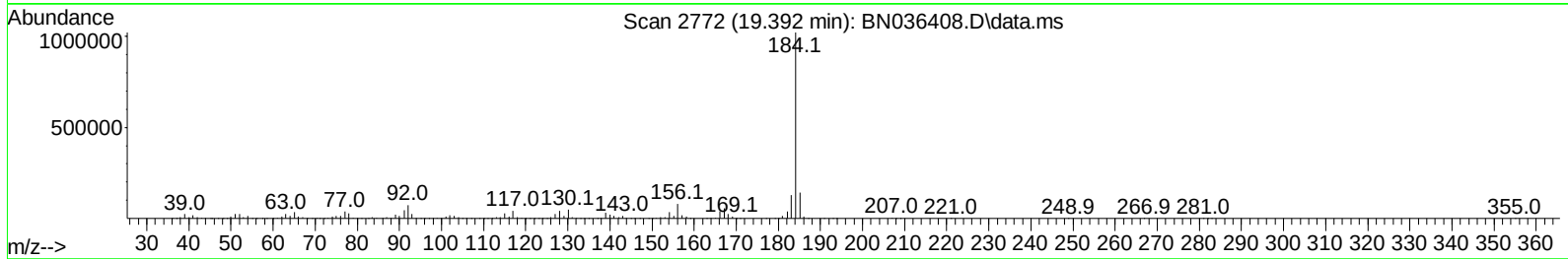
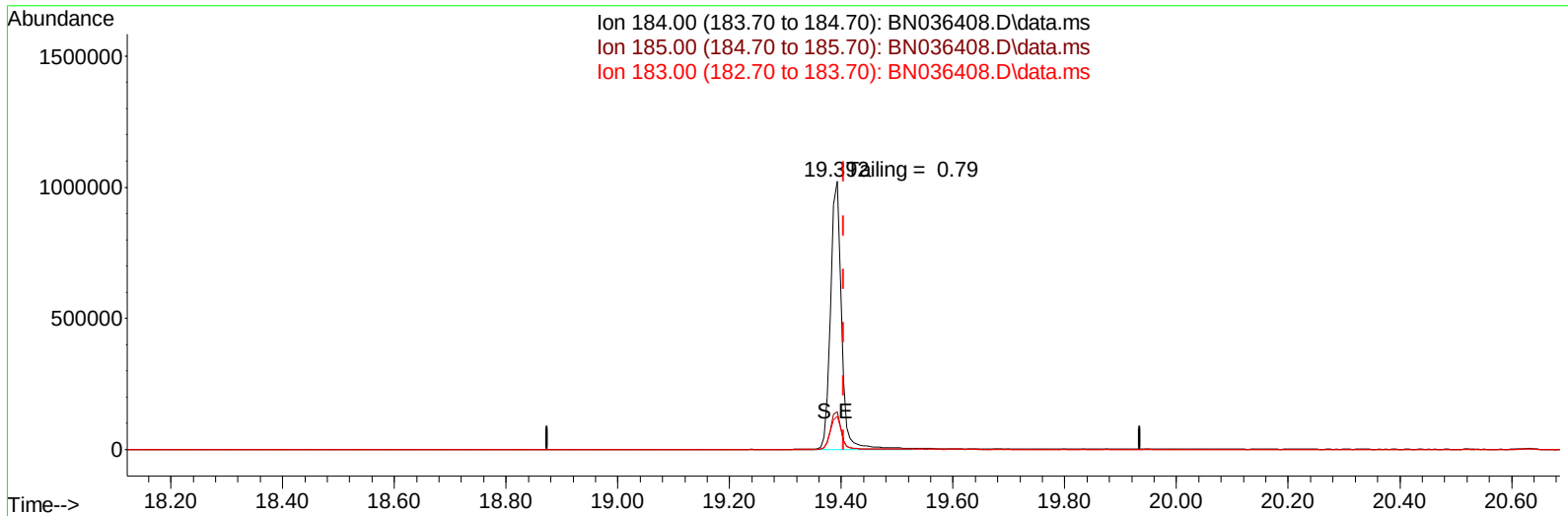
response 239758

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.20
264.00	61.60	59.58
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036408.D
Acq On : 10 Feb 2025 11:46
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Feb 11 01:55:02 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: BN036408.D\data.ms

(77) Benzidine

19.392min (-0.012) 0.00 ng

response 1390167

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.06
183.00	13.20	12.43
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

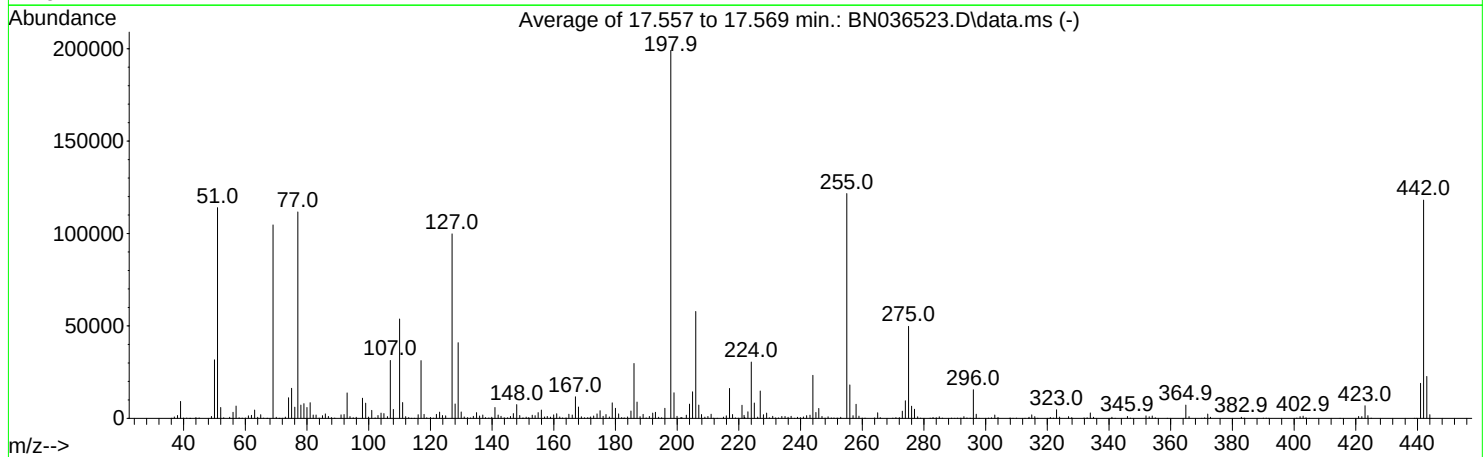
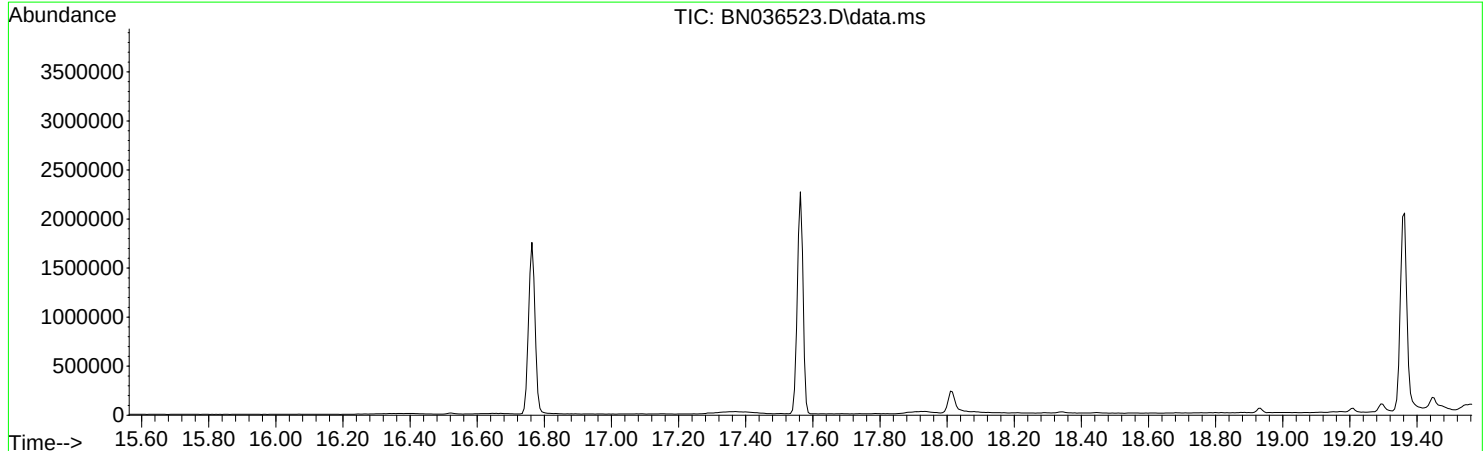
Date	Instrument Name	DFTPP Data File
2/10/2025	BNA_N	<u>BN036408.D</u>
Compound Name	Response	Retention Time
DDT	740190	20.628
DDD	8470	20.239
DDE	0	19.728
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
8470	748660	1.13

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
Data File : BN036523.D
Acq On : 05 Mar 2025 12:52
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-BN021025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Mar 05 16:08:57 2025



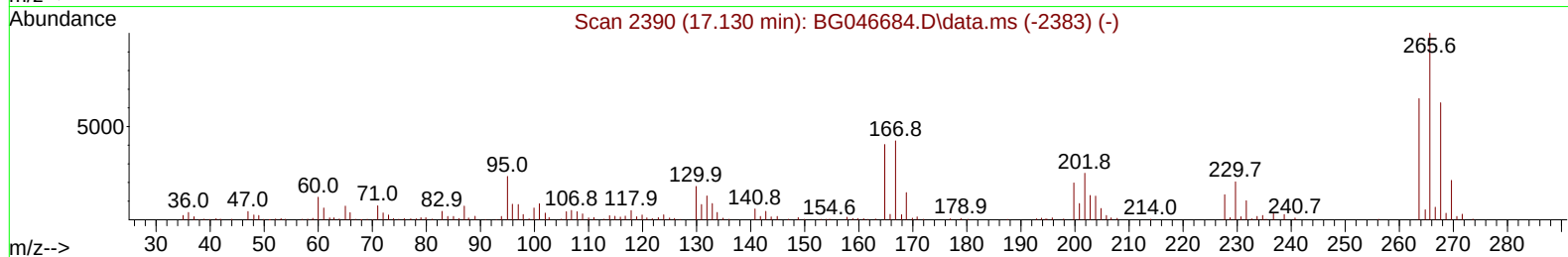
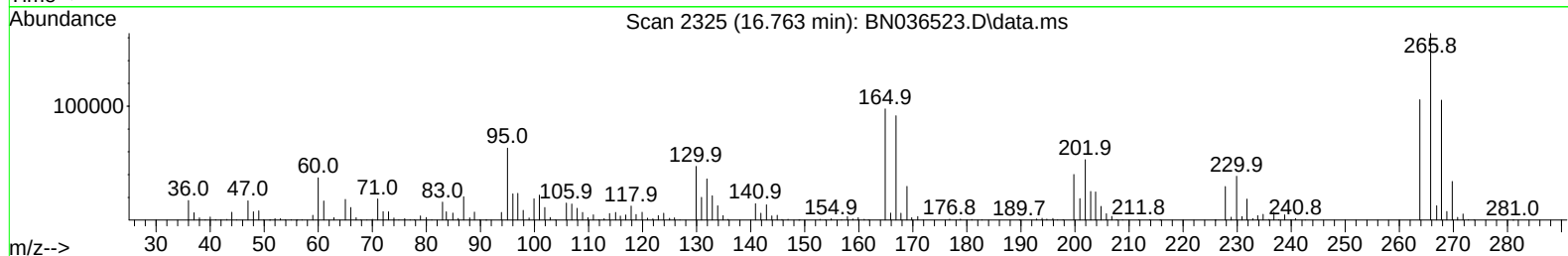
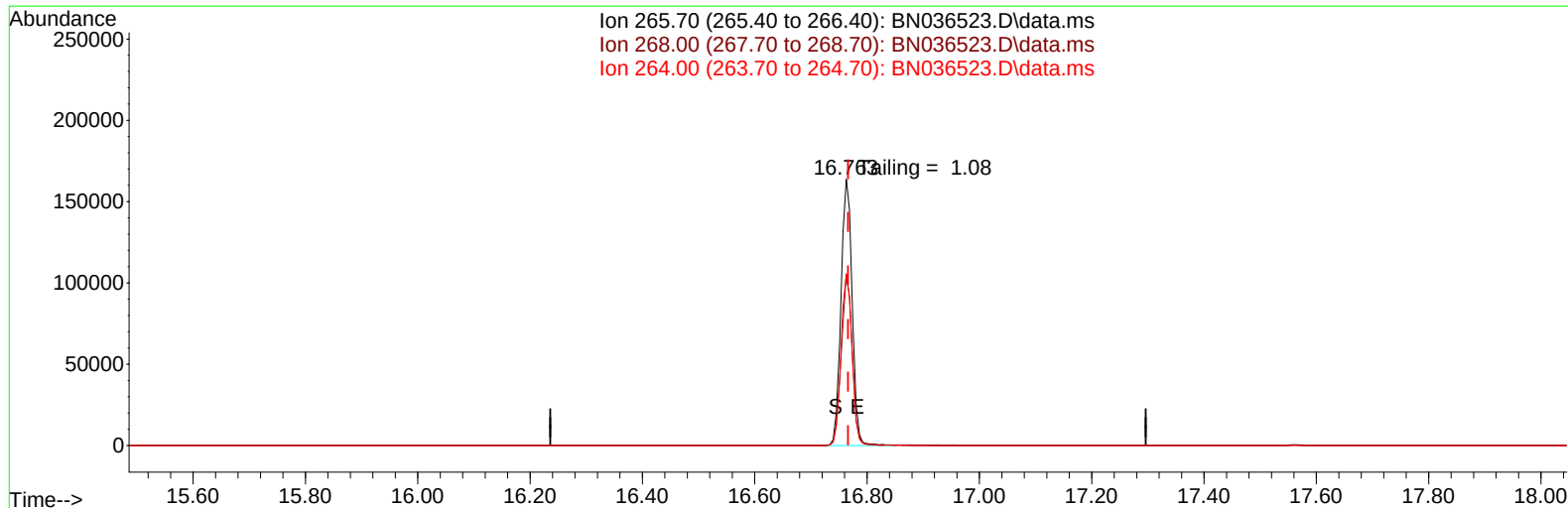
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	57.3	113984	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.6	104689	PASS
70	69	0.00	2	0.6	639	PASS
127	198	10	80	50.2	99840	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	199040	PASS
199	198	5	9	7.0	13866	PASS
275	198	10	60	25.0	49821	PASS
365	198	1	100	3.6	7186	PASS
441	198	0.01	100	9.5	18995	PASS
442	442	50	100	100.0	118091	PASS
443	442	15	24	19.2	22664	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
Data File : BN036523.D
Acq On : 05 Mar 2025 12:52
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 05 16:03:48 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: BN036523.D\data.ms

(70) Pentachlorophenol (C)

16.763min (-0.003) 22410.75 ng

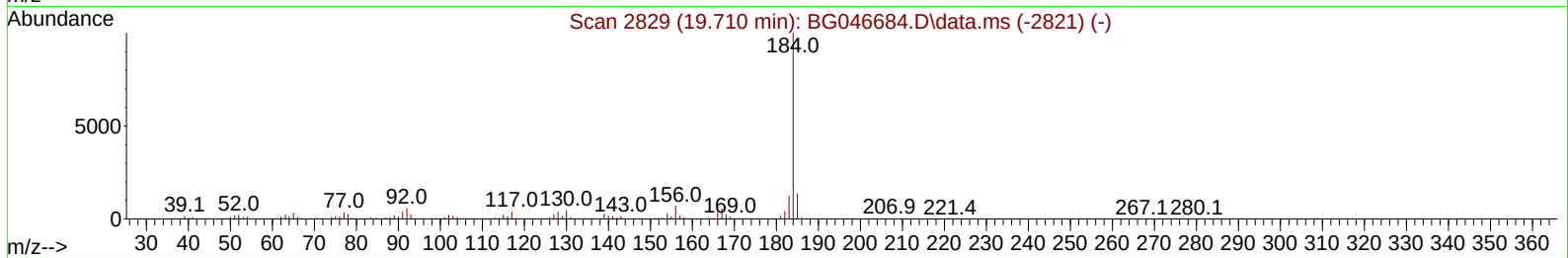
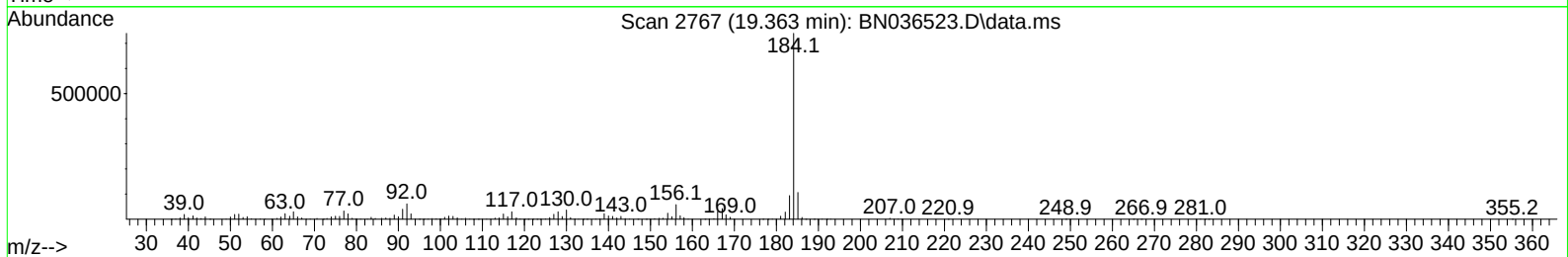
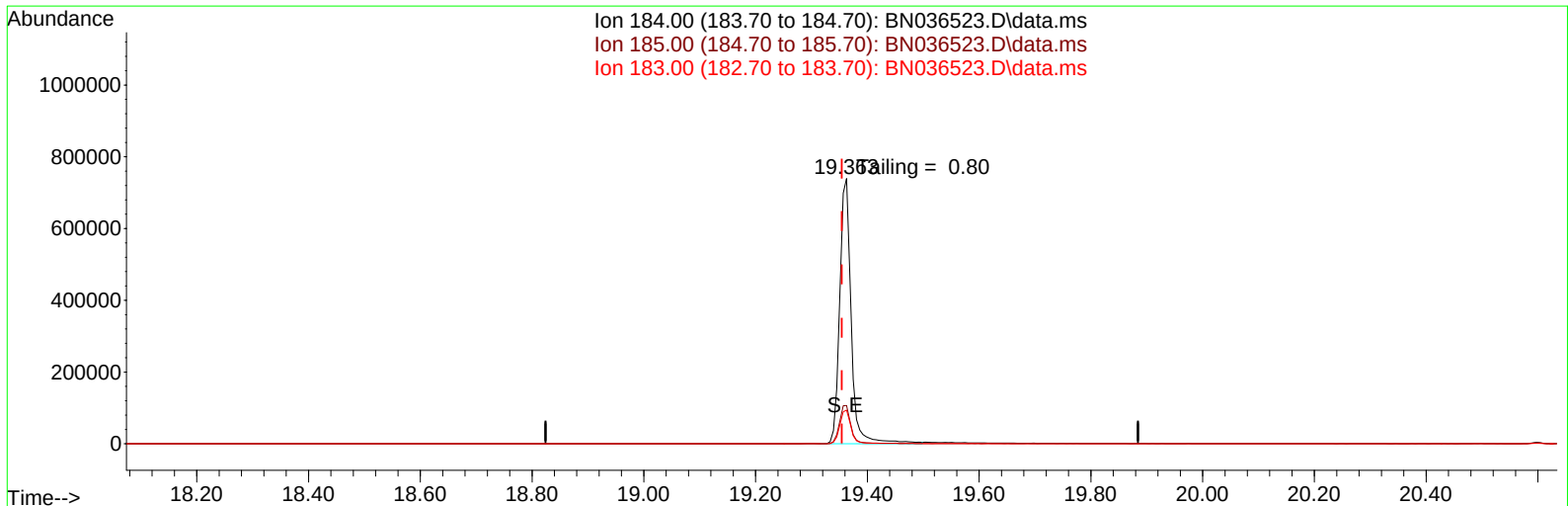
response 227405

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.26
264.00	61.60	64.52
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
Data File : BN036523.D
Acq On : 05 Mar 2025 12:52
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Mar 05 16:03:48 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: BN036523.D\data.ms

(77) Benzidine

19.363min (+ 0.009) 0.00 ng

response 1065965

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.43
183.00	13.20	12.74
0.00	0.00	0.00

Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/5/2025	BNA_N	<u>BN036523.D</u>
Compound Name	Response	Retention Time
DDT	725032	20.598
DDD	9634	20.21
DDE	159	19.651
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
9793	734825	1.33

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB166992BL	SDG No.:	Q1477
Lab Sample ID:	PB166992BL	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
BN036525.D	1	03/05/25 09:15	03/05/25 15:42	PB166992

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	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.64	*	53 - 106		160%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		108%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2430	7.724				
1146-65-2	Naphthalene-d8	5610	10.509				
15067-26-2	Acenaphthene-d10	3100	14.366				
1517-22-2	Phenanthrene-d10	6620	17.111				
1719-03-5	Chrysene-d12	5890	21.304				
1520-96-3	Perylene-d12	5420	23.56				

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\BN030525\
 Data File : BN036525.D
 Acq On : 05 Mar 2025 15:42
 Operator : RC/JU
 Sample : PB166992BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166992BL

Quant Time: Mar 05 16:09:52 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	2434	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5613	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3101	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6620	0.400	ng	0.00
29) Chrysene-d12	21.304	240	5887	0.400	ng	# 0.00
35) Perylene-d12	23.560	264	5416	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	2433	0.423	ng	0.00
5) Phenol-d6	6.901	99	2765	0.410	ng	0.00
8) Nitrobenzene-d5	8.875	82	2300	0.415	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	3206	0.372	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	535	0.348	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	7446	0.639	ng	0.00
27) Fluoranthene-d10	19.146	212	7538	0.409	ng	0.00
31) Terphenyl-d14	19.745	244	5400	0.430	ng	0.00

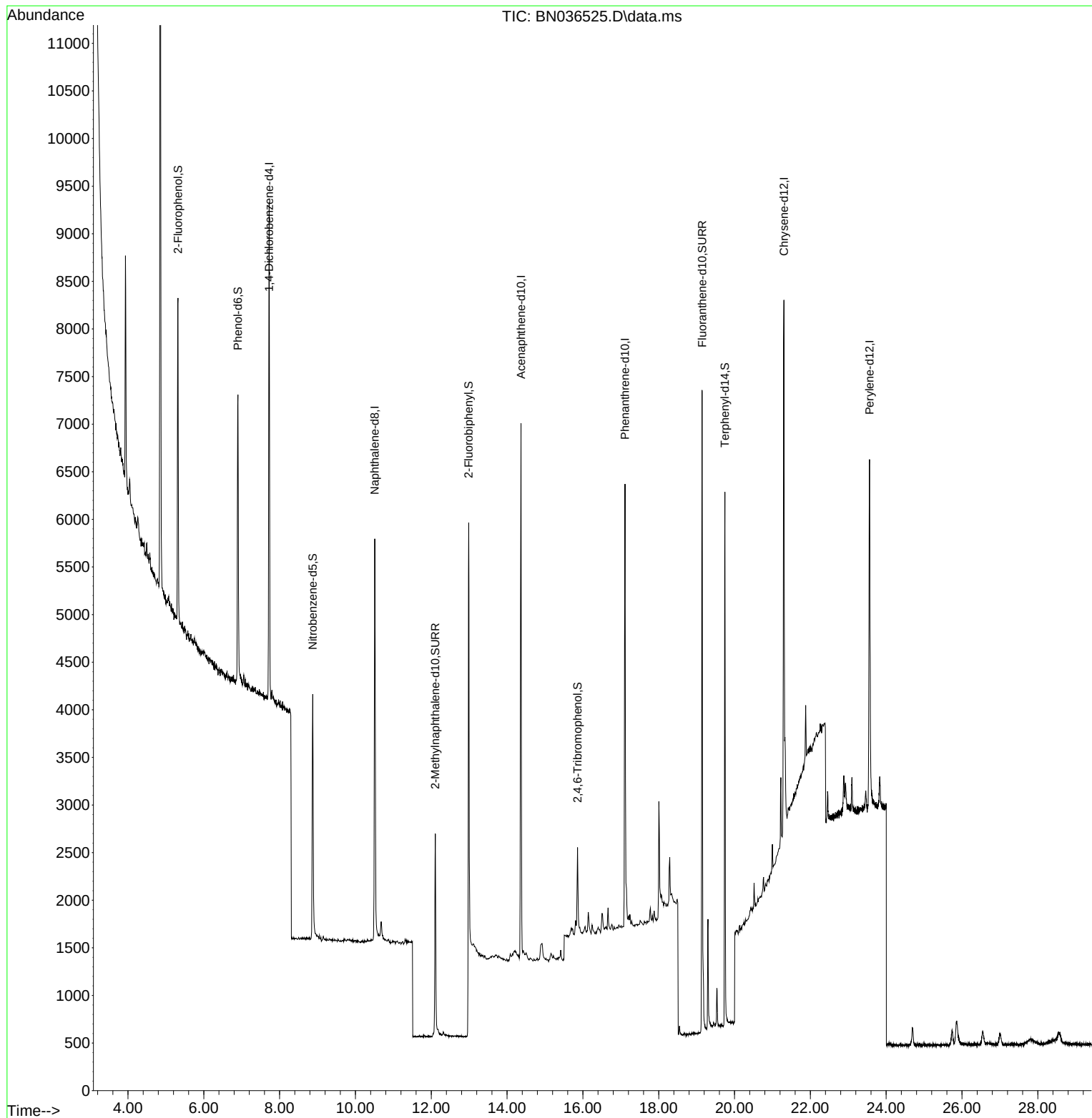
Target Compounds Qvalue

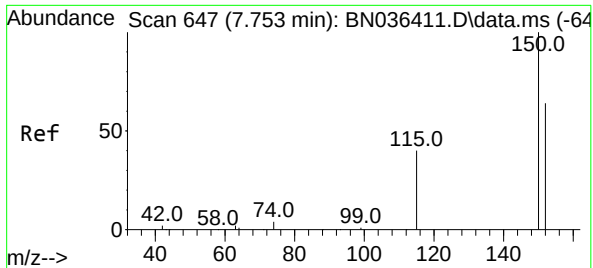
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
Data File : BN036525.D
Acq On : 05 Mar 2025 15:42
Operator : RC/JU
Sample : PB166992BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB166992BL

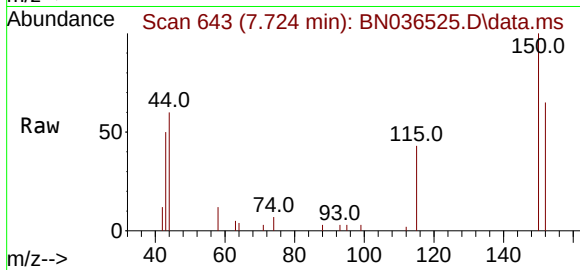
Quant Time: Mar 05 16:09:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration



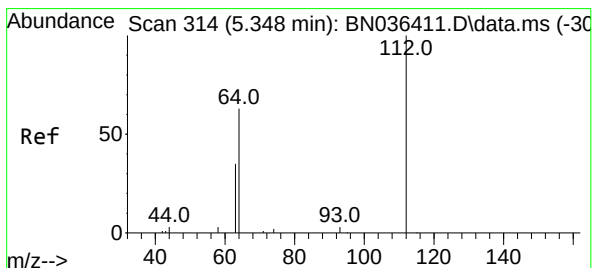
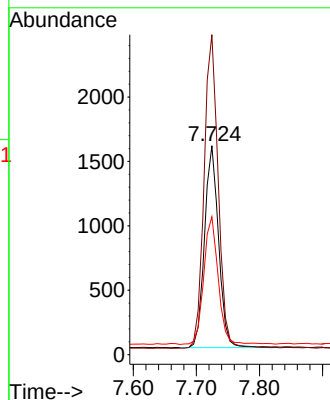
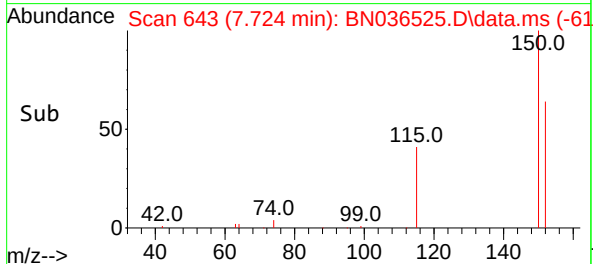


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN036525.D
Acq: 05 Mar 2025 15:42

Instrument :
BNA_N
ClientSampleId :
PB166992BL

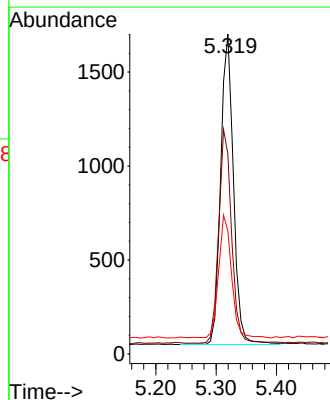
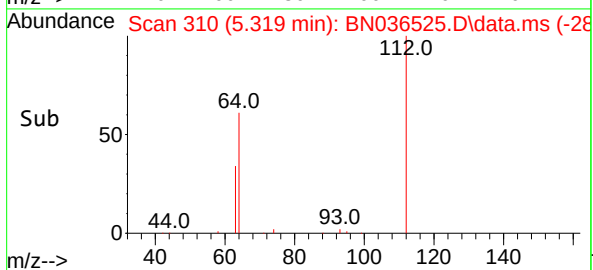
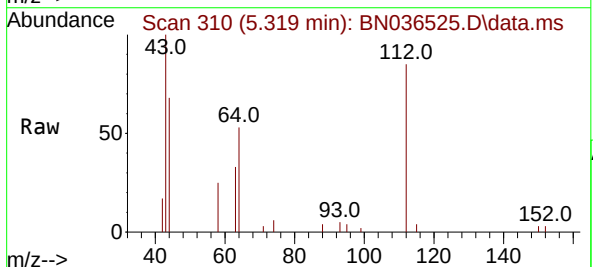


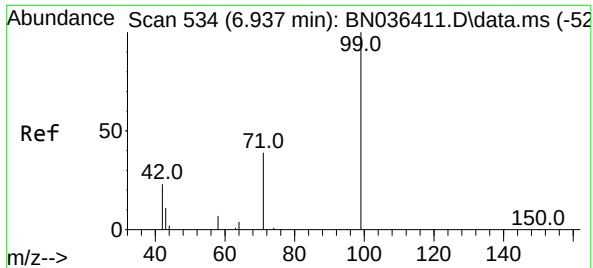
Tgt Ion:152 Resp: 2434
Ion Ratio Lower Upper
152 100
150 153.1 123.7 185.5
115 66.0 52.5 78.7



#4
2-Fluorophenol
Concen: 0.423 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.000 min
Lab File: BN036525.D
Acq: 05 Mar 2025 15:42

Tgt Ion:112 Resp: 2433
Ion Ratio Lower Upper
112 100
64 69.1 53.4 80.0
63 39.8 30.3 45.5

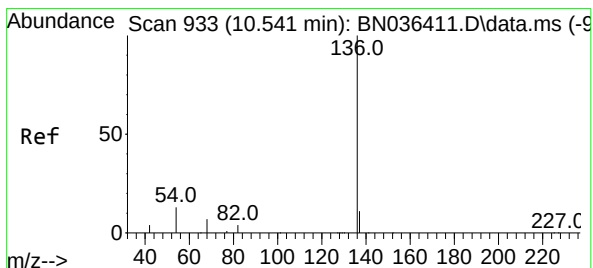
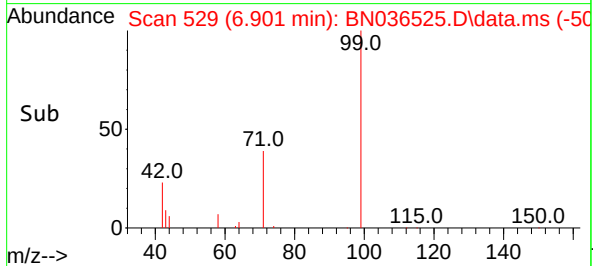
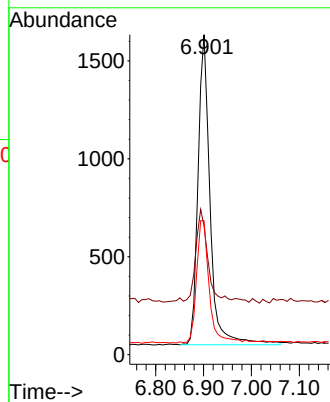
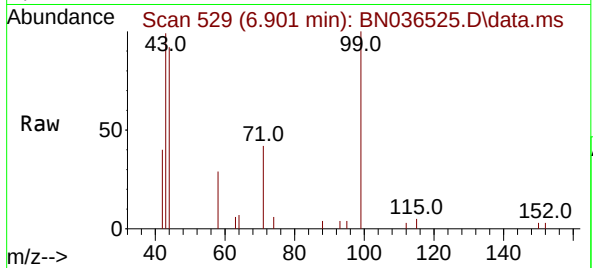




#5
Phenol-d6
Concen: 0.410 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036525.D
Acq: 05 Mar 2025 15:42

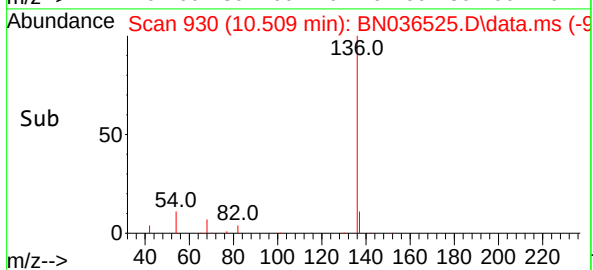
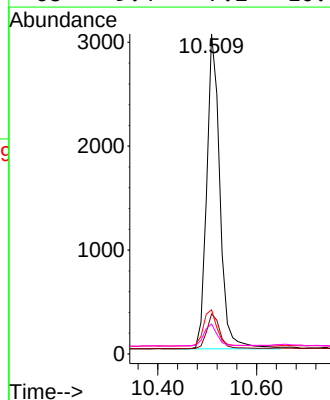
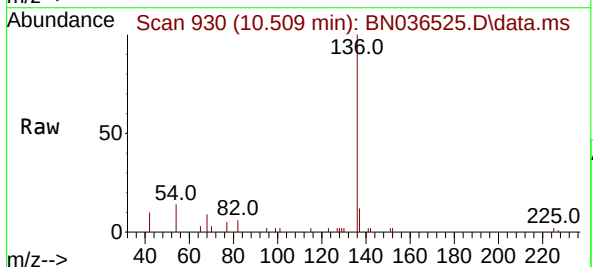
Instrument :
BNA_N
ClientSampleId :
PB166992BL

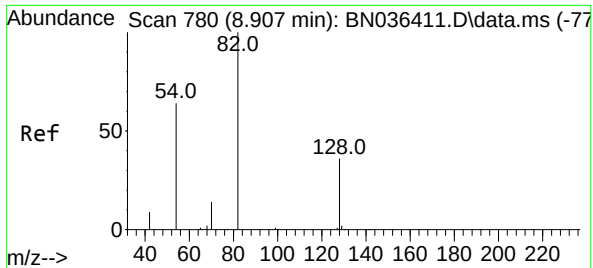
Tgt Ion: 99 Resp: 2765
Ion Ratio Lower Upper
99 100
42 28.4 21.7 32.5
71 41.1 32.6 49.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036525.D
Acq: 05 Mar 2025 15:42

Tgt Ion: 136 Resp: 5613
Ion Ratio Lower Upper
136 100
137 12.5 10.1 15.1
54 13.8 11.8 17.6
68 9.4 7.2 10.8

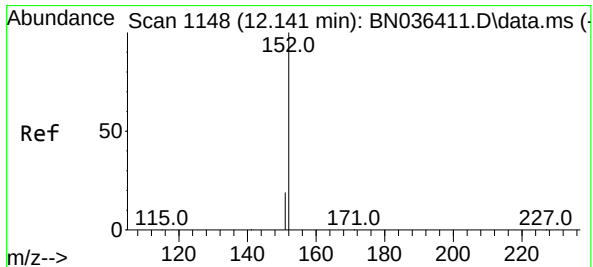
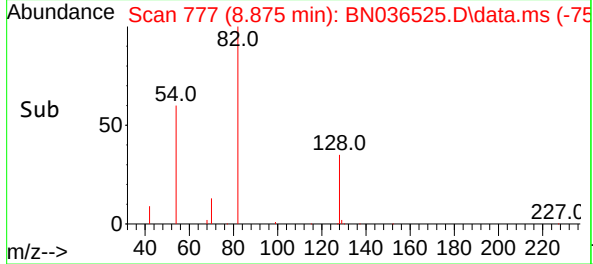
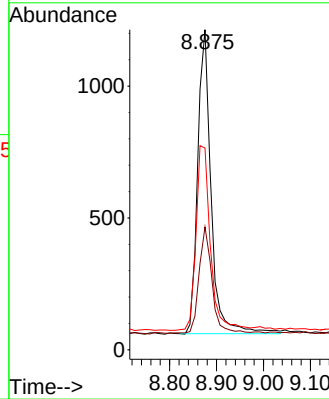
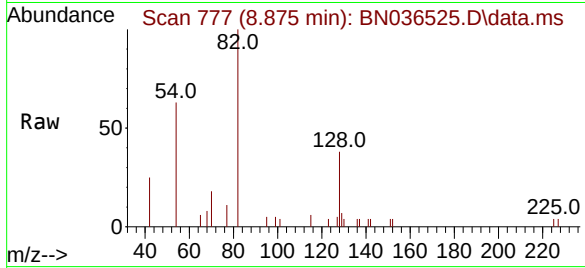




#8
Nitrobenzene-d5
Concen: 0.415 ng
RT: 8.875 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN036525.D
Acq: 05 Mar 2025 15:42

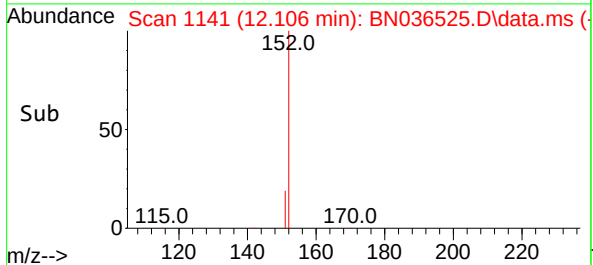
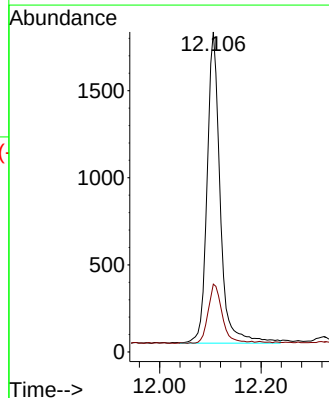
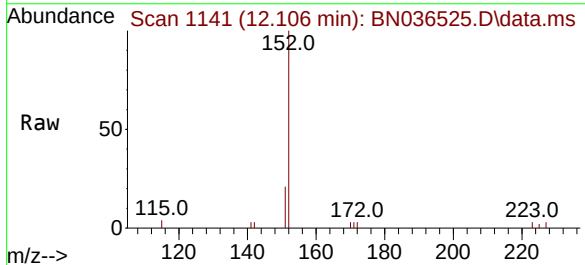
Instrument :
BNA_N
ClientSampleId :
PB166992BL

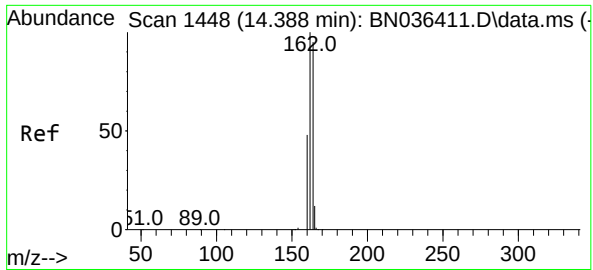
Tgt Ion: 82 Resp: 2300
Ion Ratio Lower Upper
82 100
128 38.4 31.9 47.9
54 63.0 53.1 79.7



#11
2-Methylnaphthalene-d10
Concen: 0.372 ng
RT: 12.106 min Scan# 1141
Delta R.T. 0.000 min
Lab File: BN036525.D
Acq: 05 Mar 2025 15:42

Tgt Ion: 152 Resp: 3206
Ion Ratio Lower Upper
152 100
151 20.4 16.6 25.0

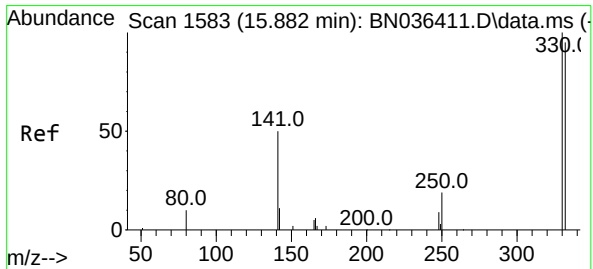
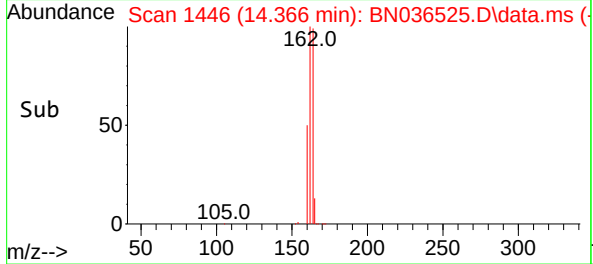
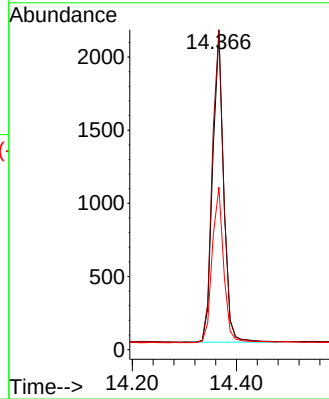
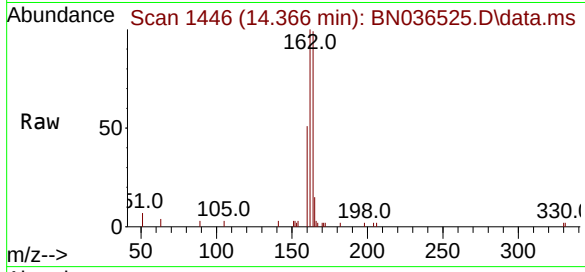




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036525.D
Acq: 05 Mar 2025 15:42

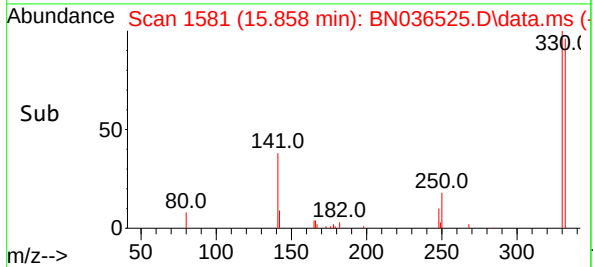
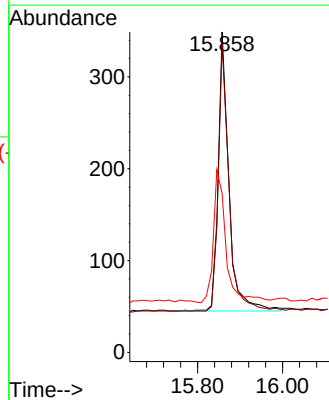
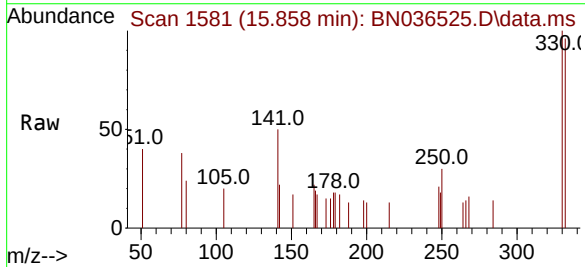
Instrument :
BNA_N
ClientSampleId :
PB166992BL

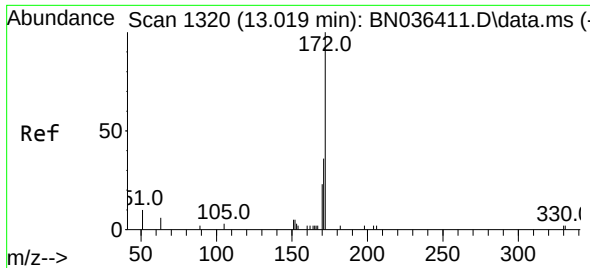
Tgt Ion:164 Resp: 3101
Ion Ratio Lower Upper
164 100
162 101.3 84.1 126.1
160 51.4 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.348 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036525.D
Acq: 05 Mar 2025 15:42

Tgt Ion:330 Resp: 535
Ion Ratio Lower Upper
330 100
332 94.4 76.6 114.8
141 55.9 37.8 56.8

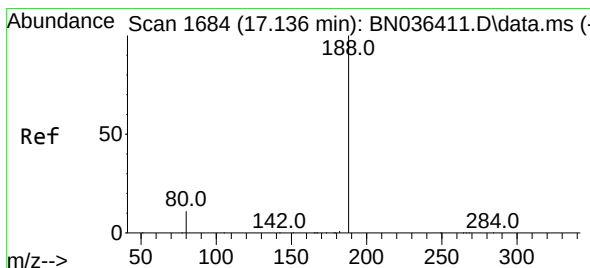
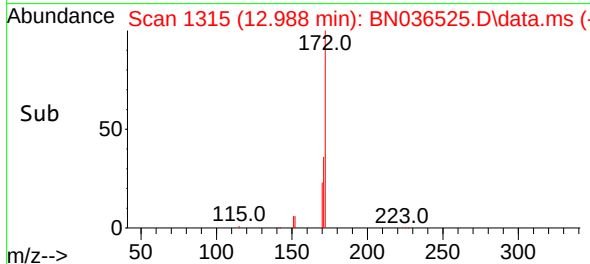
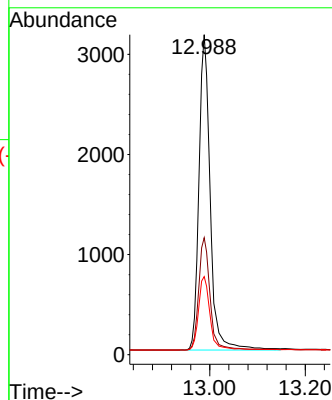
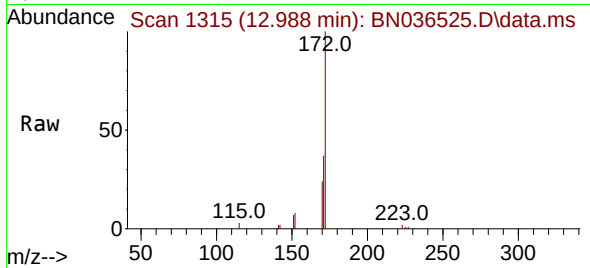




#15
2-Fluorobiphenyl
Concen: 0.639 ng
RT: 12.988 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036525.D
Acq: 05 Mar 2025 15:42

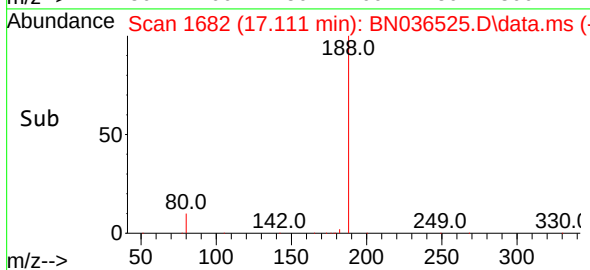
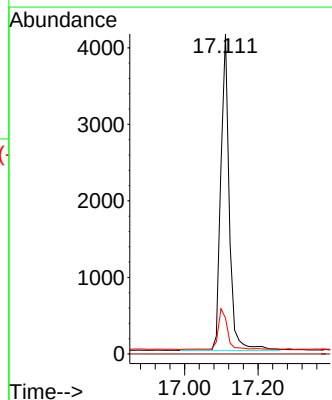
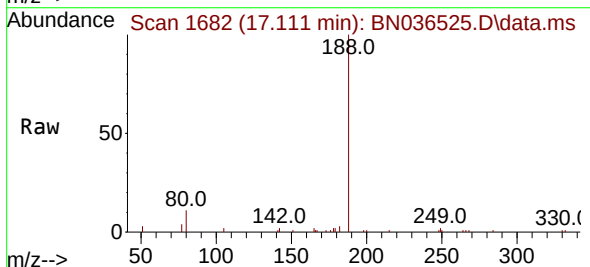
Instrument :
BNA_N
ClientSampleId :
PB166992BL

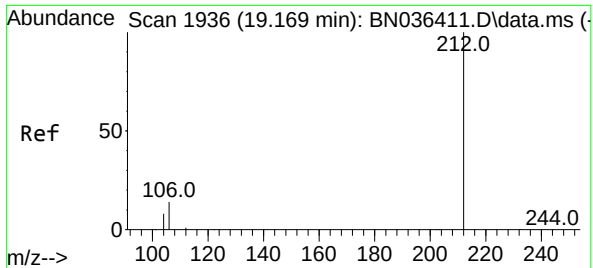
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.6	44.4
170	24.4	19.8	29.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036525.D
Acq: 05 Mar 2025 15:42

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	9.8	14.6

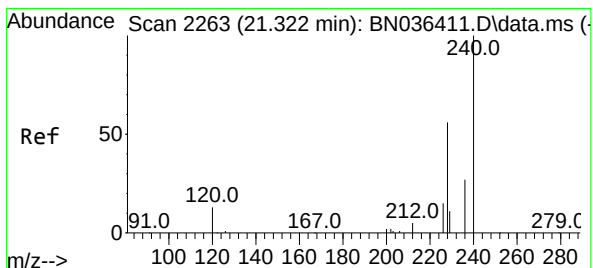
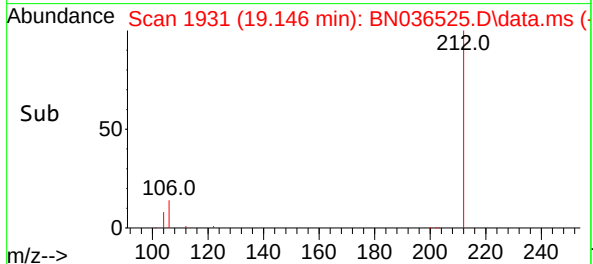
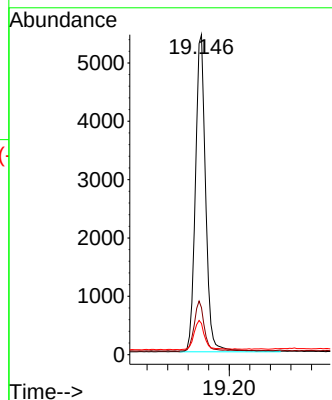
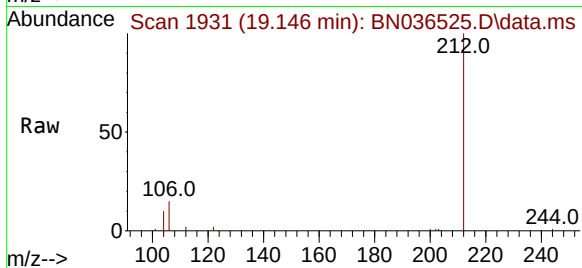




#27
Fluoranthene-d10
Concen: 0.409 ng
RT: 19.146 min Scan# 1931
Delta R.T. 0.005 min
Lab File: BN036525.D
Acq: 05 Mar 2025 15:42

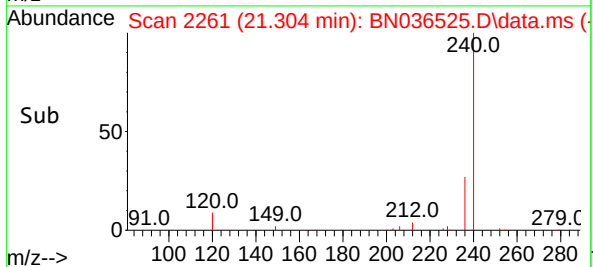
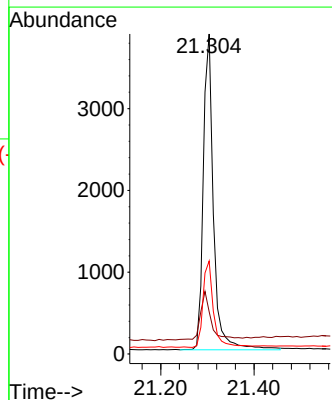
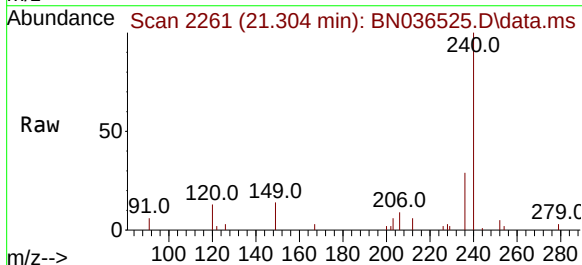
Instrument :
BNA_N
ClientSampleId :
PB166992BL

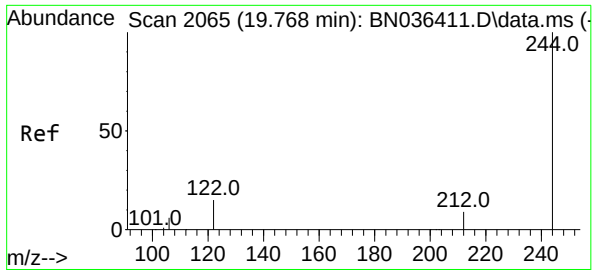
Tgt Ion:	212	Resp:	7538
Ion Ratio	Lower	Upper	
212	100		
106	15.7	11.5	17.3
104	9.7	7.1	10.7



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 2261
Delta R.T. 0.009 min
Lab File: BN036525.D
Acq: 05 Mar 2025 15:42

Tgt Ion:	240	Resp:	5887
Ion Ratio	Lower	Upper	
240	100		
120	13.2	13.3	19.9#
236	29.1	23.0	34.6

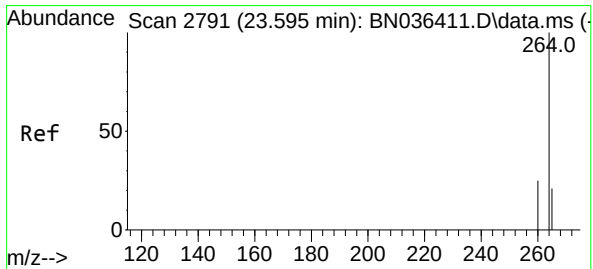
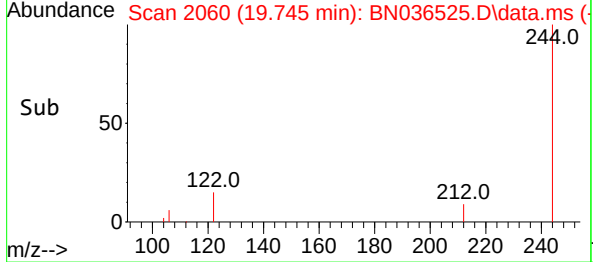
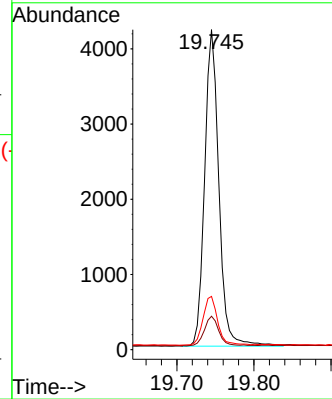
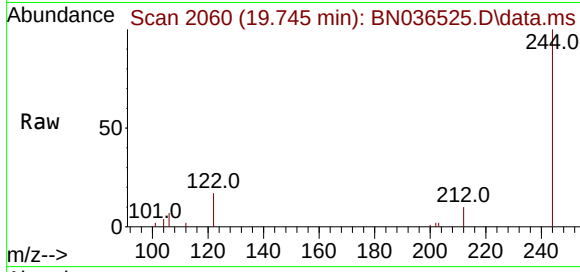




#31
Terphenyl-d14
Concen: 0.430 ng
RT: 19.745 min Scan# 2065
Delta R.T. 0.000 min
Lab File: BN036525.D
Acq: 05 Mar 2025 15:42

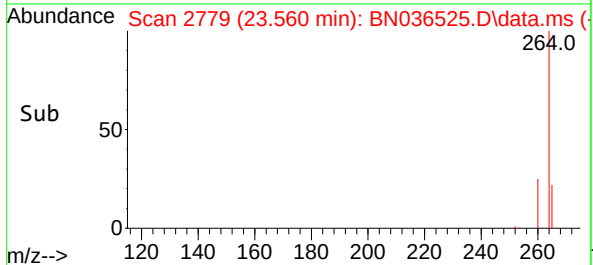
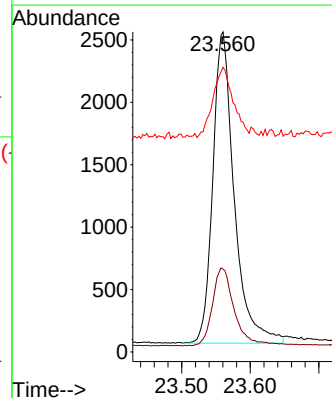
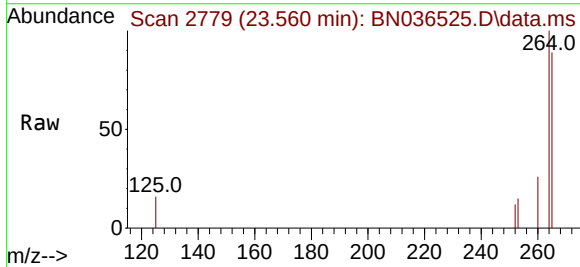
Instrument :
BNA_N
ClientSampleId :
PB166992BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.4	8.1	12.1
122	16.6	12.8	19.2



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.560 min Scan# 2779
Delta R.T. 0.009 min
Lab File: BN036525.D
Acq: 05 Mar 2025 15:42

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.9	20.9	31.3
265	89.0	60.7	91.1



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB166992BS	SDG No.:	Q1477
Lab Sample ID:	PB166992BS	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
BN036530.D	1	03/05/25 09:15	03/05/25 18:43	PB166992

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.36		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.49		30 - 150		122%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		98%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.57	*	53 - 106		142%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2100	7.732				
1146-65-2	Naphthalene-d8	4840	10.519				
15067-26-2	Acenaphthene-d10	2670	14.366				
1517-22-2	Phenanthrene-d10	5410	17.111				
1719-03-5	Chrysene-d12	4450	21.304				
1520-96-3	Perylene-d12	4020	23.557				

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\BN030525\
 Data File : BN036530.D
 Acq On : 05 Mar 2025 18:43
 Operator : RC/JU
 Sample : PB166992BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166992BS

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 06 00:02:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	2101	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	4843	0.400	ng	# 0.01
13) Acenaphthene-d10	14.366	164	2666	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5405	0.400	ng	0.00
29) Chrysene-d12	21.304	240	4446	0.400	ng	0.00
35) Perylene-d12	23.557	264	4016	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.327	112	2029	0.409	ng	0.00
5) Phenol-d6	6.908	99	2300	0.395	ng	0.00
8) Nitrobenzene-d5	8.875	82	1863	0.390	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3620	0.486	ng	0.00
14) 2,4,6-Tribromophenol	15.870	330	427	0.323	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	5706	0.569	ng	0.00
27) Fluoranthene-d10	19.146	212	5870	0.391	ng	0.00
31) Terphenyl-d14	19.745	244	4336	0.457	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.247	88	828	0.360	ng	# 57
3) n-Nitrosodimethylamine	3.550	42	1790	0.448	ng	96
6) bis(2-Chloroethyl)ether	7.154	93	2444	0.401	ng	100
9) Naphthalene	10.562	128	5414	0.387	ng	98
10) Hexachlorobutadiene	10.861	225	1336	0.393	ng	# 98
12) 2-Methylnaphthalene	12.187	142	3418	0.373	ng	98
16) Acenaphthylene	14.088	152	5341	0.454	ng	99
17) Acenaphthene	14.430	154	3346	0.425	ng	100
18) Fluorene	15.414	166	4501	0.402	ng	98
20) 4,6-Dinitro-2-methylph...	15.510	198	276	0.260	ng	# 77
21) 4-Bromophenyl-phenylether	16.317	248	1308	0.406	ng	# 78
22) Hexachlorobenzene	16.429	284	1641	0.412	ng	96
23) Atrazine	16.590	200	1160	0.431	ng	97
24) Pentachlorophenol	16.776	266	1149	0.608	ng	98
25) Phenanthrene	17.148	178	6761	0.433	ng	100
26) Anthracene	17.248	178	6330	0.459	ng	99
28) Fluoranthene	19.174	202	7886	0.411	ng	100
30) Pyrene	19.536	202	8237	0.481	ng	99
32) Benzo(a)anthracene	21.286	228	6490	0.444	ng	99
33) Chrysene	21.340	228	7215	0.455	ng	99
34) Bis(2-ethylhexyl)phtha...	21.223	149	4333	0.475	ng	# 94
36) Indeno(1,2,3-cd)pyrene	25.844	276	6502	0.463	ng	99
37) Benzo(b)fluoranthene	22.879	252	5777	0.437	ng	94
38) Benzo(k)fluoranthene	22.923	252	6769m	0.497	ng	
39) Benzo(a)pyrene	23.458	252	5389	0.467	ng	92
40) Dibenzo(a,h)anthracene	25.867	278	4767	0.430	ng	93
41) Benzo(g,h,i)perylene	26.542	276	5159	0.411	ng	98

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

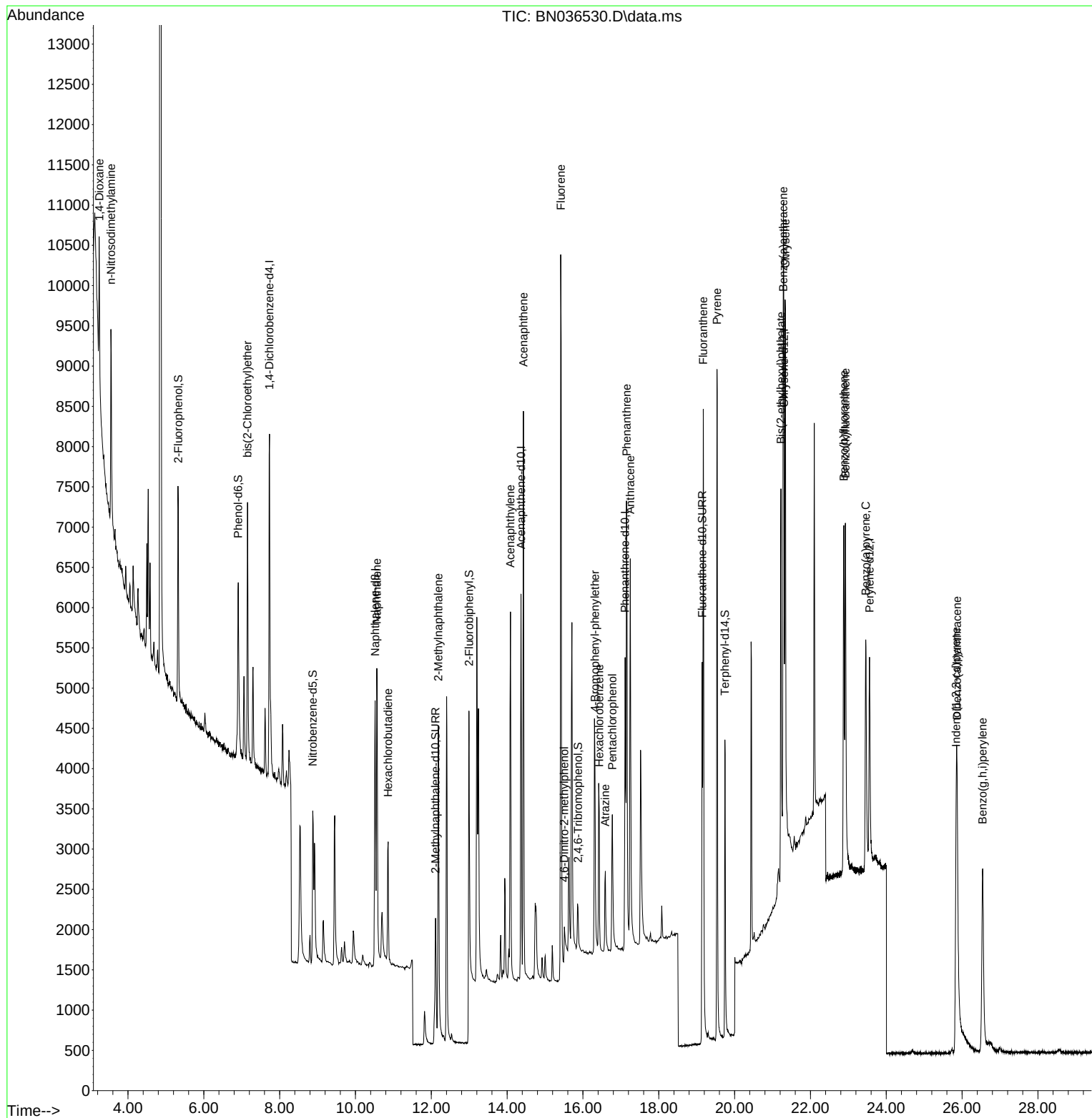
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
 Data File : BN036530.D
 Acq On : 05 Mar 2025 18:43
 Operator : RC/JU
 Sample : PB166992BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

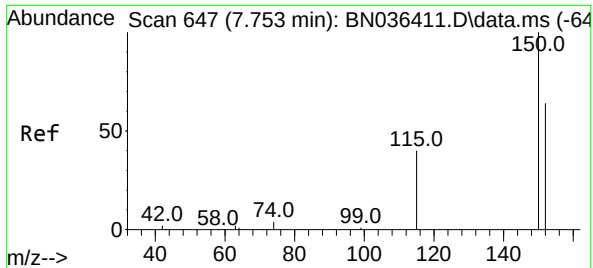
Instrument :
 BNA_N
 ClientSampleId :
 PB166992BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025

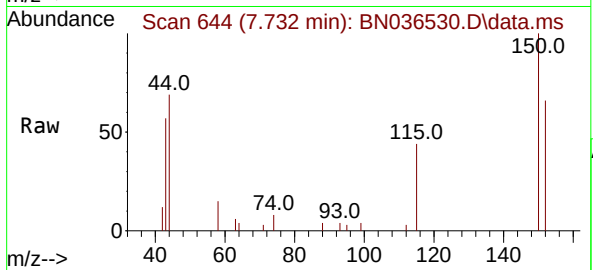
Quant Time: Mar 06 00:02:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.732 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

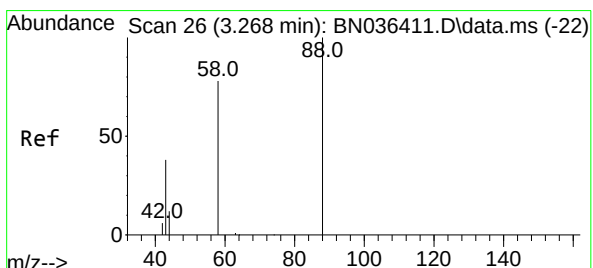
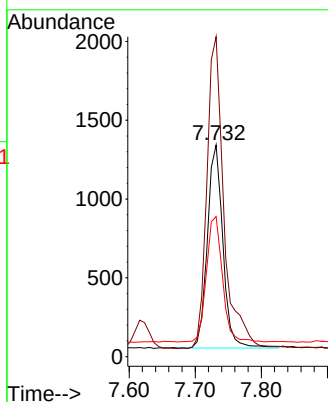
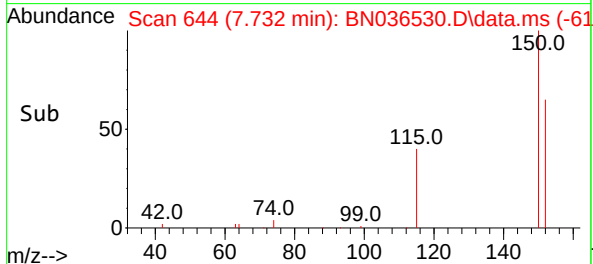
Instrument :
BNA_N
ClientSampleId :
PB166992BS



Tgt Ion: 152 Resp: 210
Ion Ratio Lower Upper
152 100
150 151.2 123.7 185.5
115 66.2 52.5 78.7

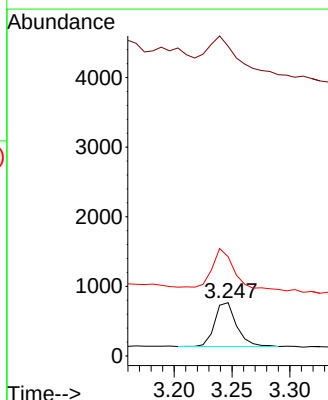
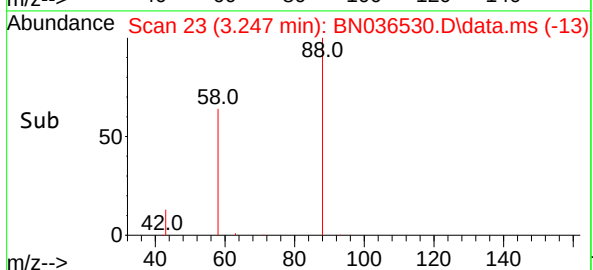
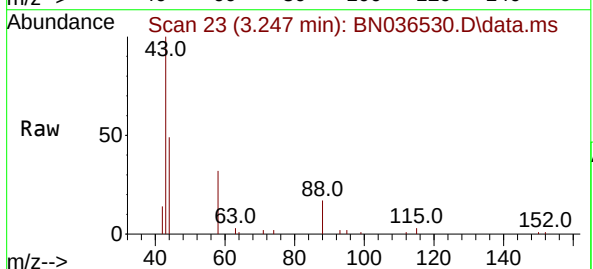
Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

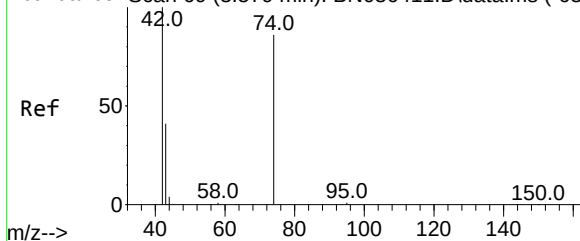


#2
1,4-Dioxane
Concen: 0.360 ng
RT: 3.247 min Scan# 23
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion: 88 Resp: 828
Ion Ratio Lower Upper
88 100
43 119.2 33.7 50.5
58 90.2 68.9 103.3



Abundance Scan 69 (3.579 min): BN036411.D\data.ms (-63)



#3

n-Nitrosodimethylamine

Concen: 0.448 ng

RT: 3.550 min Scan# 61

Delta R.T. -0.000 min

Lab File: BN036530.D

Acq: 05 Mar 2025 18:43

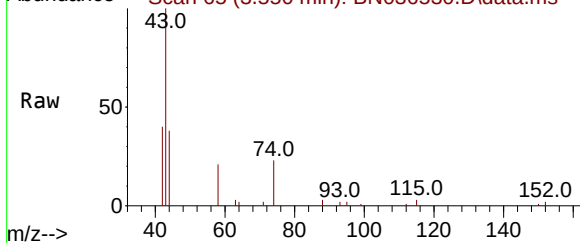
Instrument :

BNA_N

ClientSampleId :

PB166992BS

Abundance Scan 65 (3.550 min): BN036530.D\data.ms



Tgt Ion: 42 Resp: 1790

Ion Ratio Lower Upper

42 100

74 85.7 71.8 107.6

44 10.0 7.8 11.6

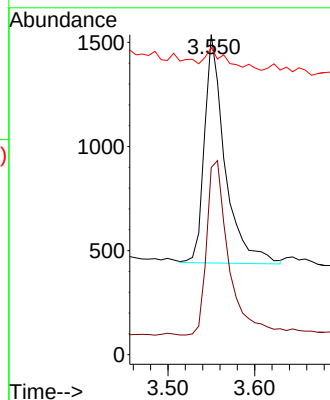
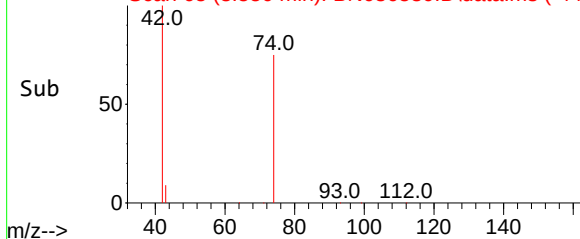
Manual Integrations

APPROVED

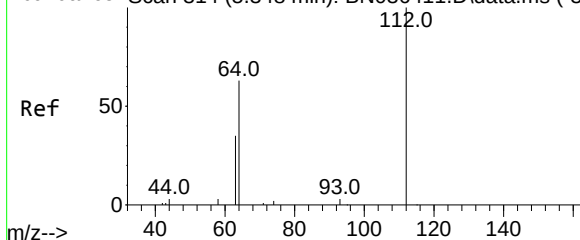
Reviewed By :Anahy Claudio 03/06/2025

Supervised By :Jagrut Upadhyay 03/06/2025

Abundance Scan 65 (3.550 min): BN036530.D\data.ms (-44)



Abundance Scan 314 (5.348 min): BN036411.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.409 ng

RT: 5.327 min Scan# 311

Delta R.T. 0.007 min

Lab File: BN036530.D

Acq: 05 Mar 2025 18:43

Tgt Ion:112 Resp: 2029

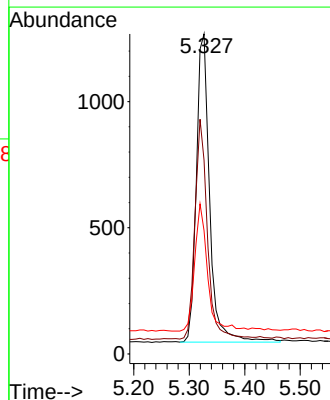
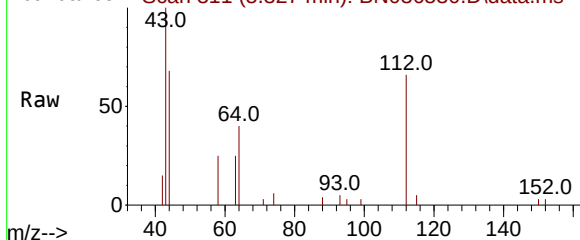
Ion Ratio Lower Upper

112 100

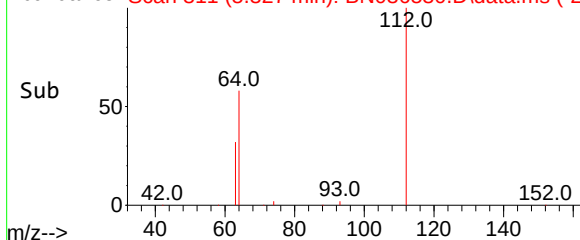
64 66.5 53.4 80.0

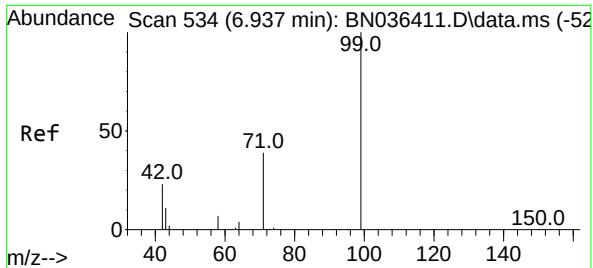
63 39.3 30.3 45.5

Abundance Scan 311 (5.327 min): BN036530.D\data.ms



Abundance Scan 311 (5.327 min): BN036530.D\data.ms (-28)





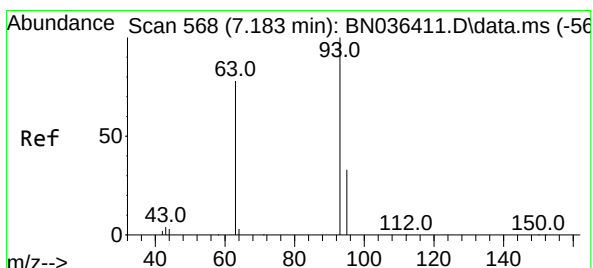
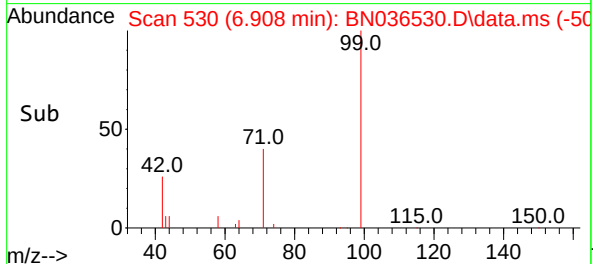
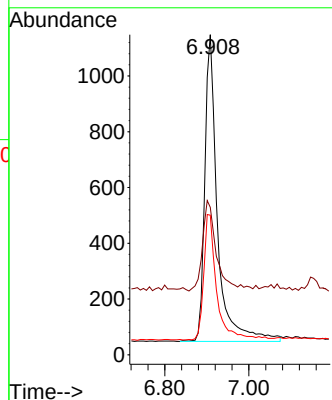
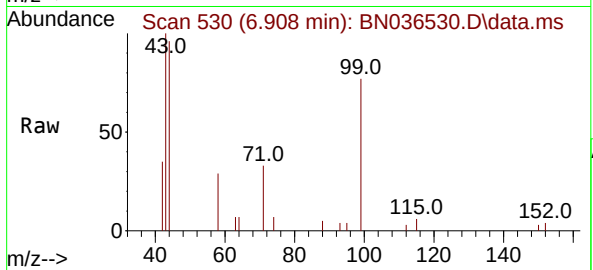
#5
Phenol-d6
Concen: 0.395 ng
RT: 6.908 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Instrument :
BNA_N
ClientSampleId :
PB166992BS

Tgt Ion: 99 Resp: 2300
Ion Ratio Lower Upper
99 100
42 31.3 21.7 32.5
71 41.3 32.6 49.0

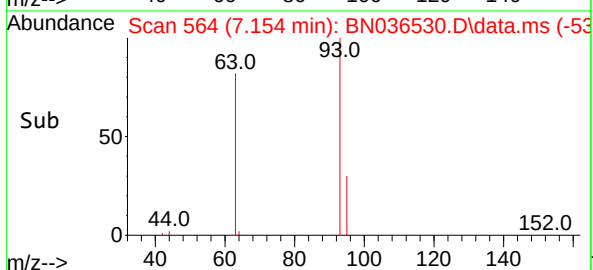
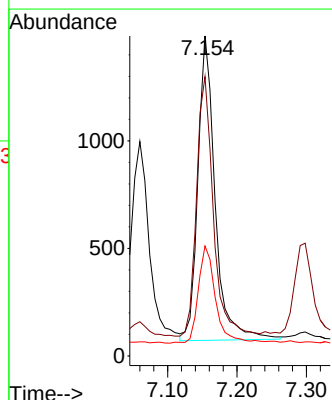
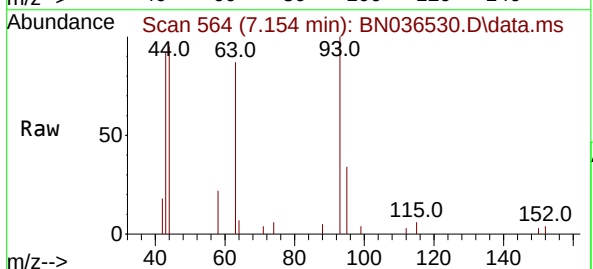
Manual Integrations
APPROVED

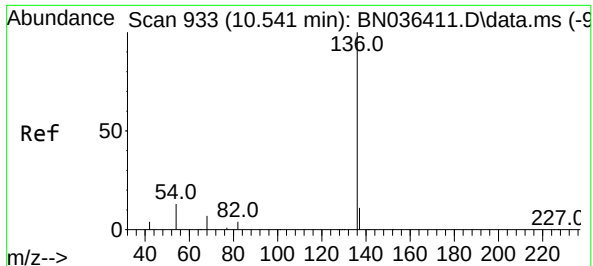
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.401 ng
RT: 7.154 min Scan# 564
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

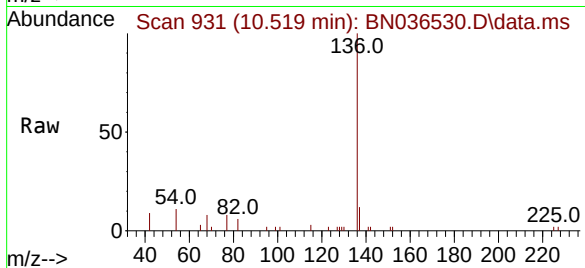
Tgt Ion: 93 Resp: 2444
Ion Ratio Lower Upper
93 100
63 82.9 66.3 99.5
95 32.4 26.2 39.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

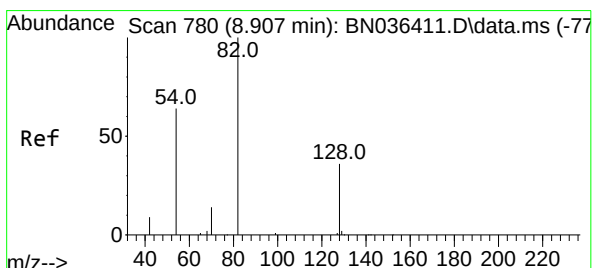
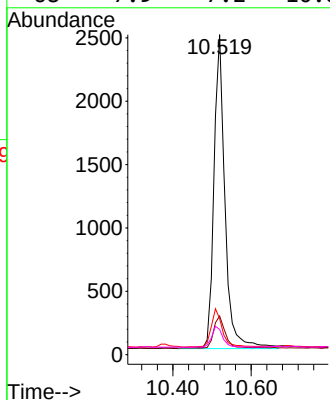
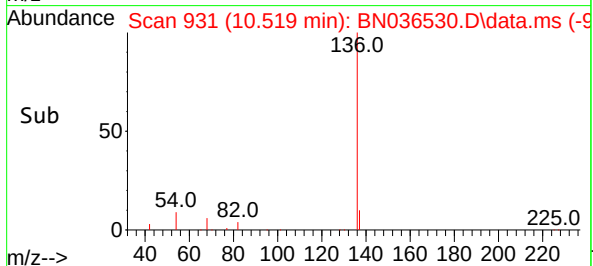
Instrument :
BNA_N
ClientSampleId :
PB166992BS



Tgt Ion:136 Resp: 484
Ion Ratio Lower Upper
136 100
137 12.1 10.1 15.1
54 11.2 11.8 17.6
68 7.9 7.2 10.8

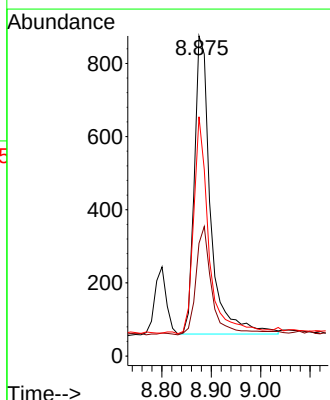
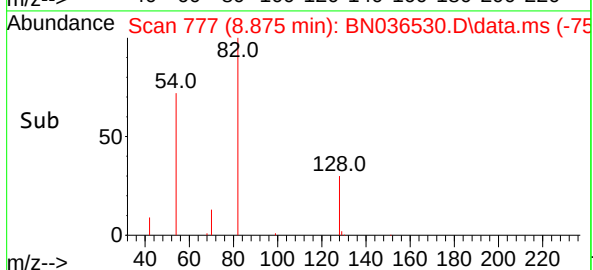
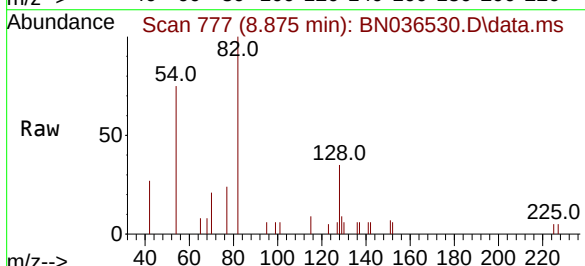
Manual Integrations
APPROVED

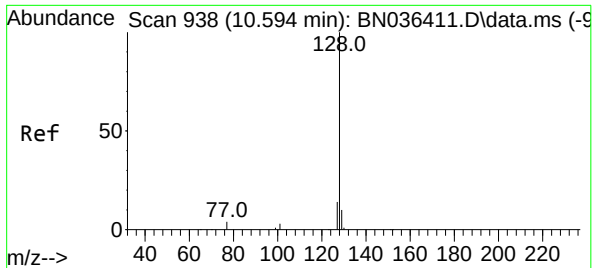
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#8
Nitrobenzene-d5
Concen: 0.390 ng
RT: 8.875 min Scan# 777
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

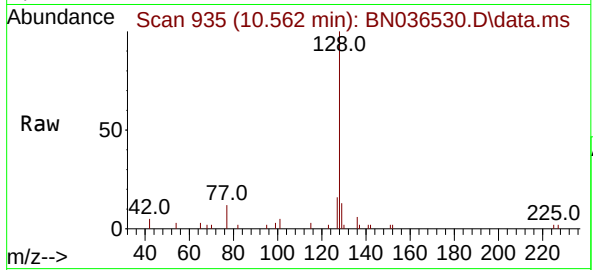
Tgt Ion: 82 Resp: 1863
Ion Ratio Lower Upper
82 100
128 35.2 31.9 47.9
54 74.7 53.1 79.7





#9
Naphthalene
Concen: 0.387 ng
RT: 10.562 min Scan# 914
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

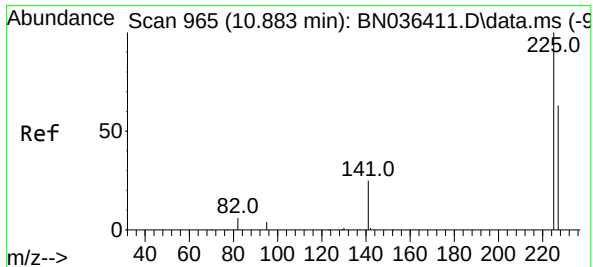
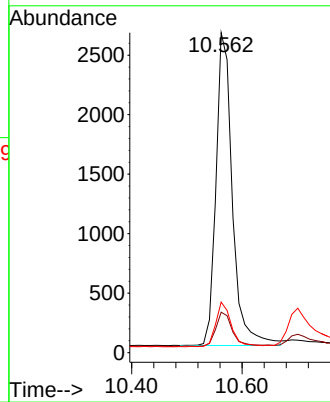
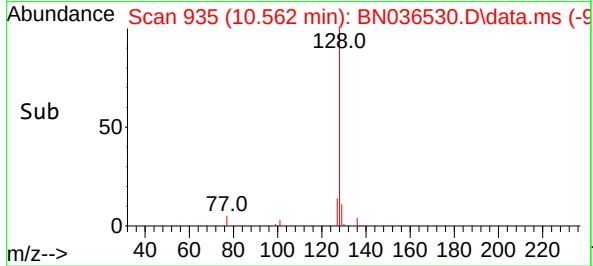
Instrument :
BNA_N
ClientSampleId :
PB166992BS



Tgt Ion:128 Resp: 5414
Ion Ratio Lower Upper
128 100
129 12.6 9.6 14.4
127 15.8 12.0 18.0

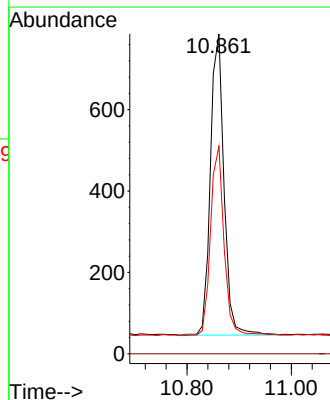
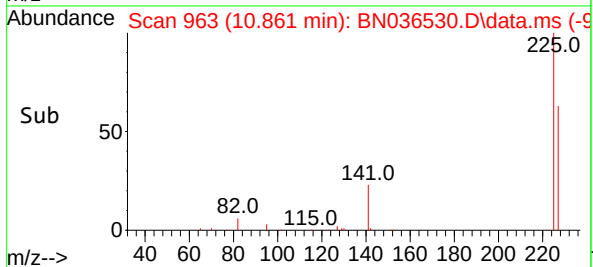
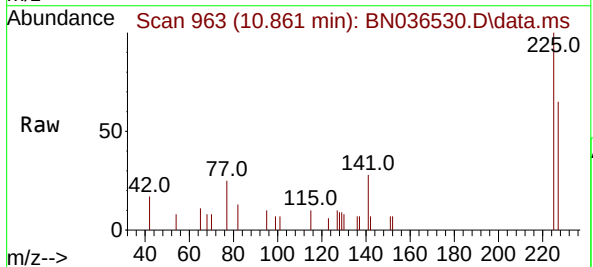
Manual Integrations
APPROVED

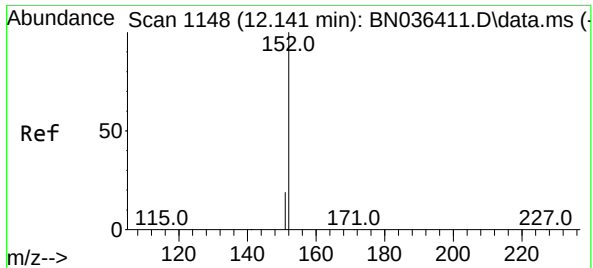
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#10
Hexachlorobutadiene
Concen: 0.393 ng
RT: 10.861 min Scan# 963
Delta R.T. 0.011 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

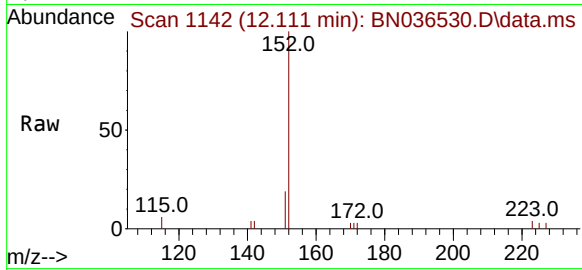
Tgt Ion:225 Resp: 1336
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.4 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.486 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.005 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

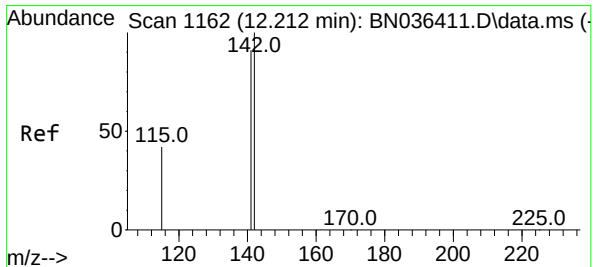
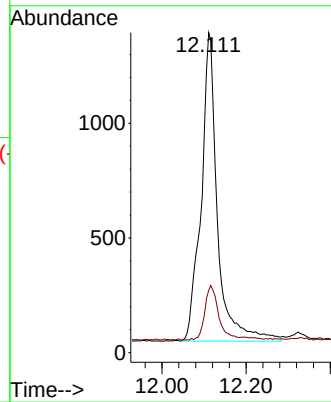
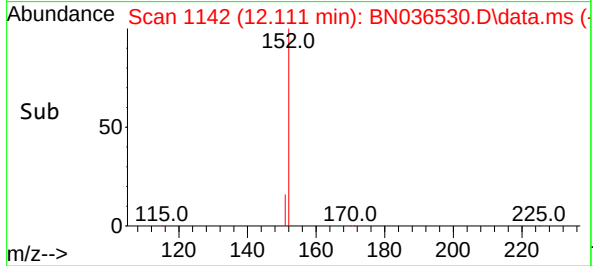
Instrument :
BNA_N
ClientSampleId :
PB166992BS



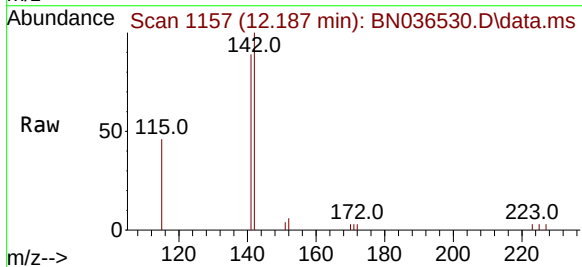
Tgt Ion:152 Resp: 3620
Ion Ratio Lower Upper
152 100
151 14.9 16.6 25.0

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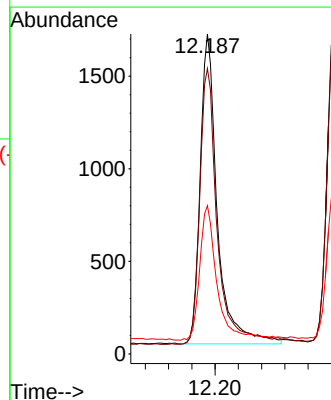
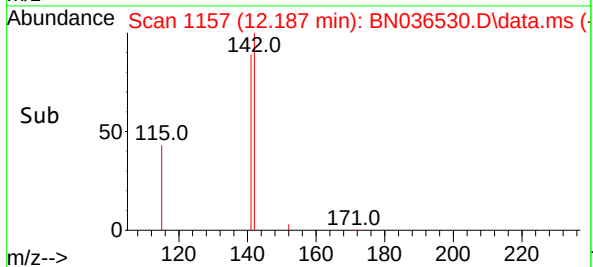
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

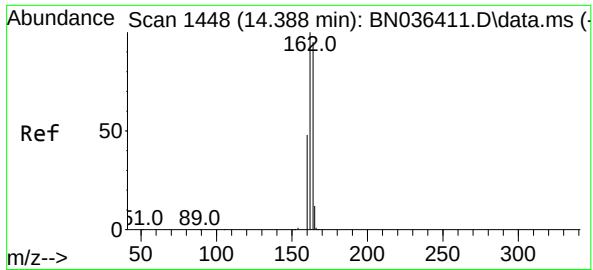


#12
2-Methylnaphthalene
Concen: 0.373 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43



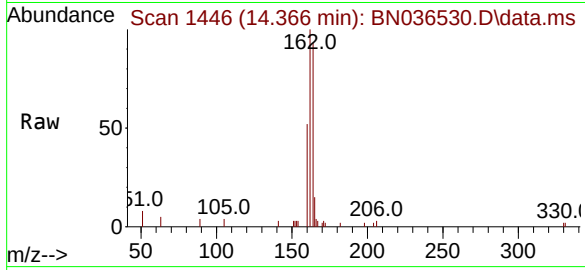
Tgt Ion:142 Resp: 3418
Ion Ratio Lower Upper
142 100
141 89.2 72.8 109.2
115 46.4 35.5 53.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

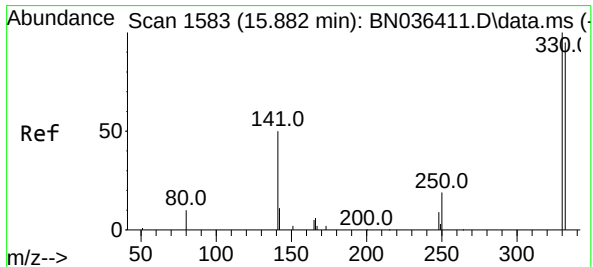
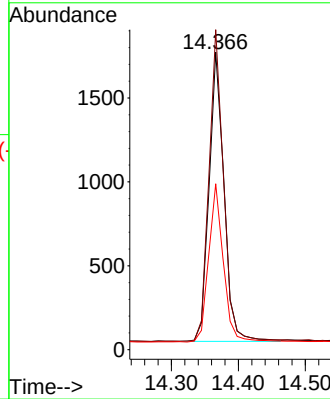
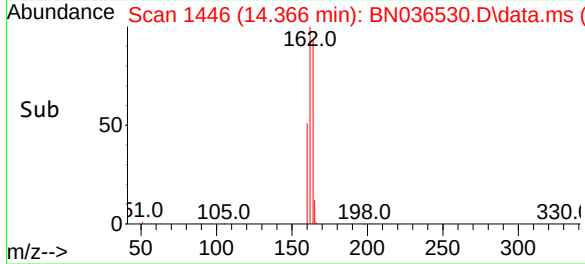
Instrument :
BNA_N
ClientSampleId :
PB166992BS



Tgt Ion:164 Resp: 266
Ion Ratio Lower Upper
164 100
162 107.5 84.1 126.1
160 55.7 41.4 62.0

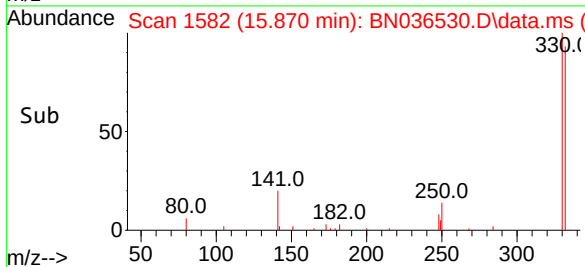
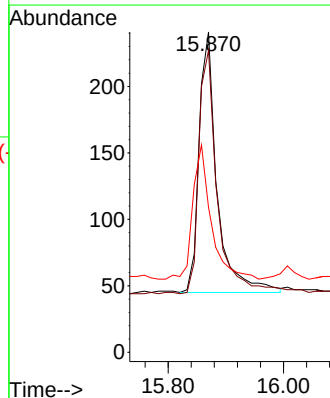
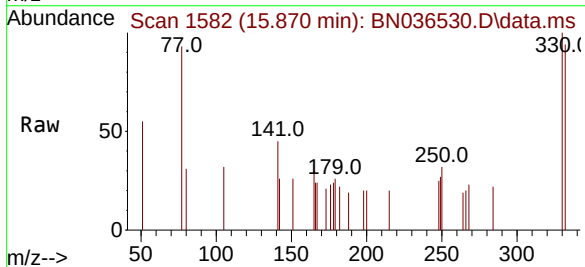
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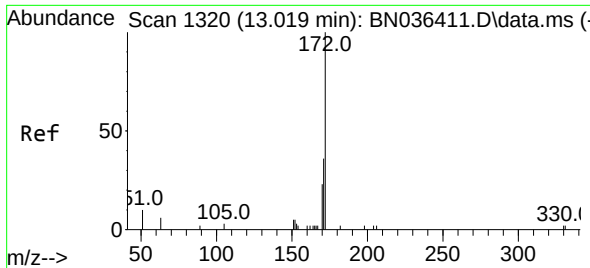
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#14
2,4,6-Tribromophenol
Concen: 0.323 ng
RT: 15.870 min Scan# 1582
Delta R.T. 0.012 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

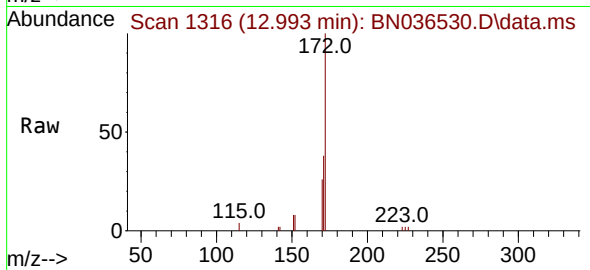
Tgt Ion:330 Resp: 427
Ion Ratio Lower Upper
330 100
332 96.7 76.6 114.8
141 52.0 37.8 56.8





#15
2-Fluorobiphenyl
Concen: 0.569 ng
RT: 12.993 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

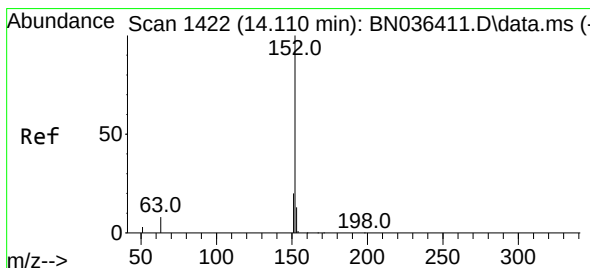
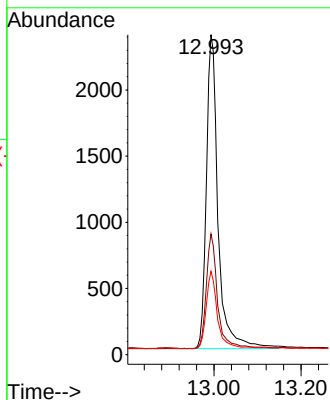
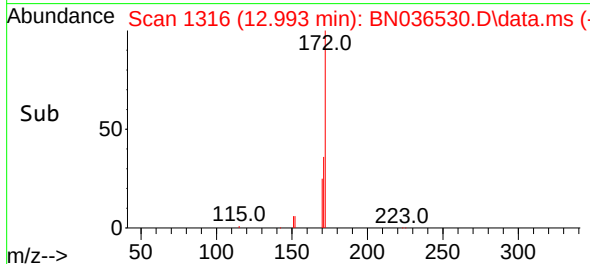
Instrument :
BNA_N
ClientSampleId :
PB166992BS



Tgt Ion:172 Resp: 5700
Ion Ratio Lower Upper
172 100
171 37.8 29.6 44.4
170 26.0 19.8 29.6

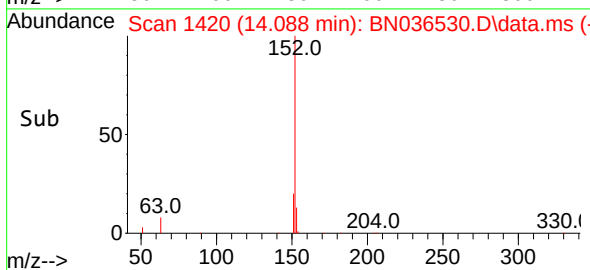
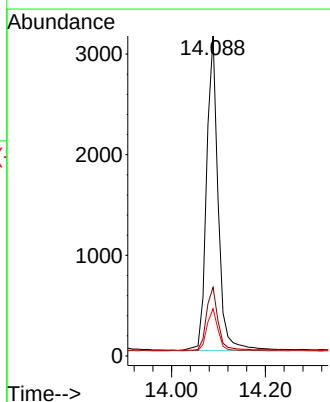
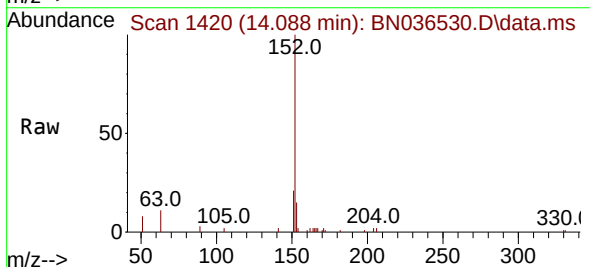
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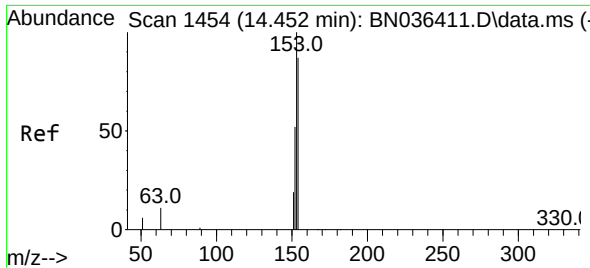
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#16
Acenaphthylene
Concen: 0.454 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

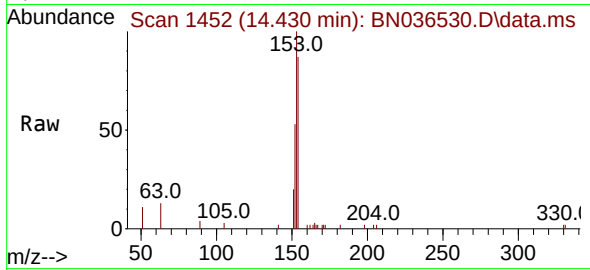
Tgt Ion:152 Resp: 5341
Ion Ratio Lower Upper
152 100
151 20.1 15.8 23.8
153 13.2 10.2 15.2





#17
Acenaphthene
Concen: 0.425 ng
RT: 14.430 min Scan# 1452
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

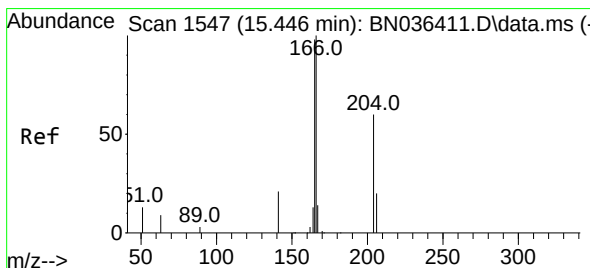
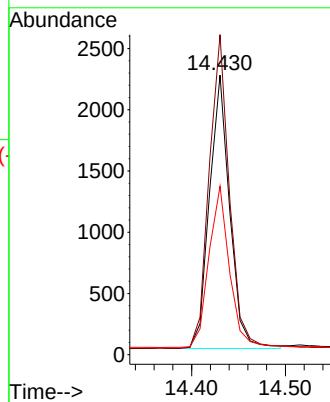
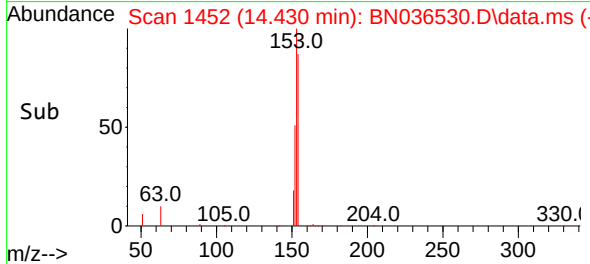
Instrument :
BNA_N
ClientSampleId :
PB166992BS



Tgt Ion:154 Resp: 3340
Ion Ratio Lower Upper
154 100
153 116.4 93.3 139.9
152 60.6 48.8 73.2

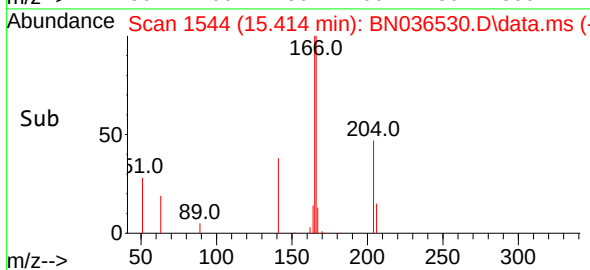
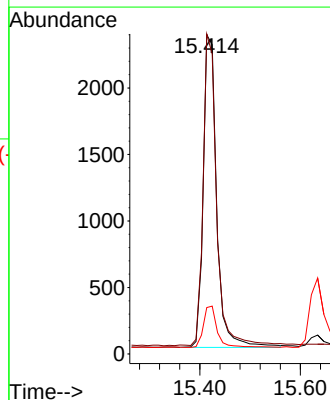
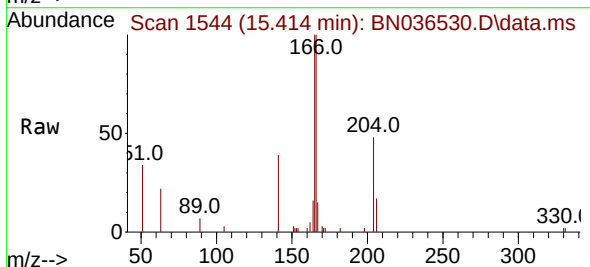
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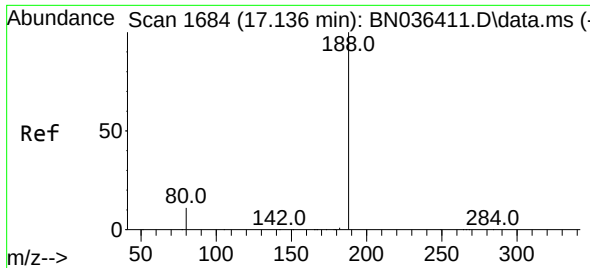
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#18
Fluorene
Concen: 0.402 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion:166 Resp: 4501
Ion Ratio Lower Upper
166 100
165 97.9 79.5 119.3
167 13.8 10.4 15.6





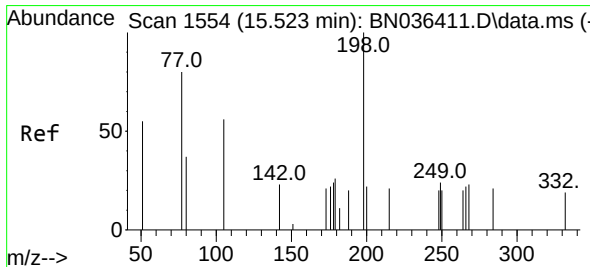
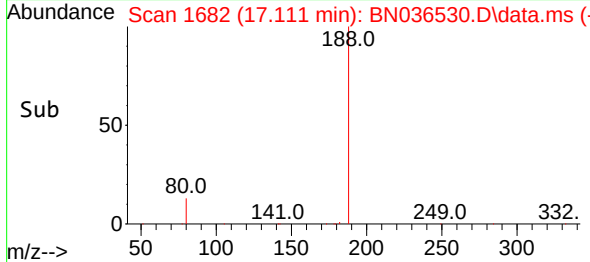
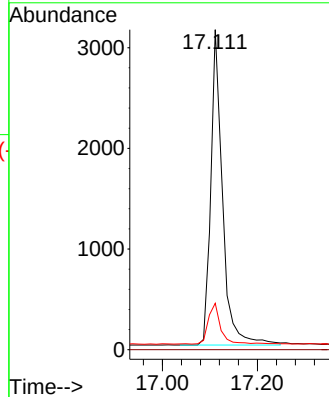
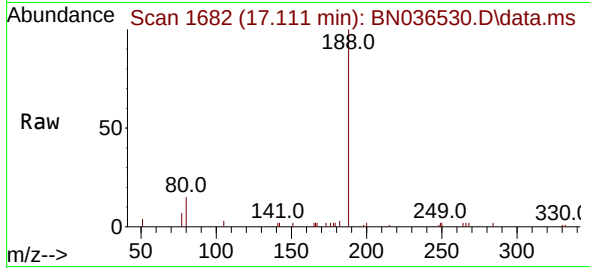
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Instrument :
BNA_N
ClientSampleId :
PB166992BS

Tgt Ion:188 Resp: 540
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.5 9.8 14.6

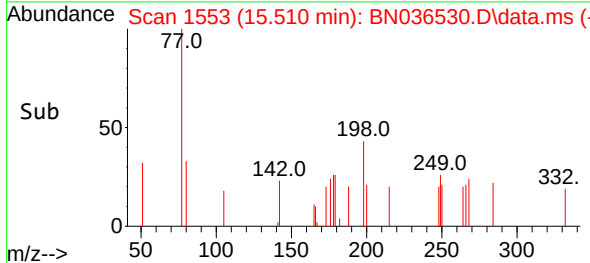
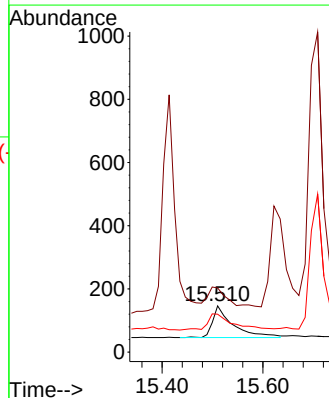
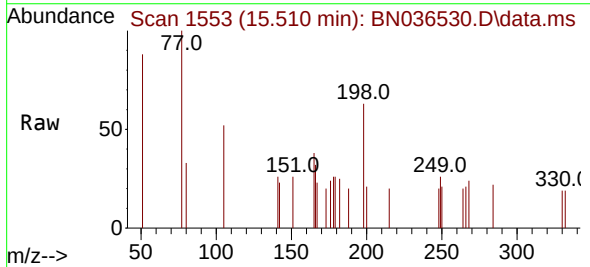
Manual Integrations
APPROVED

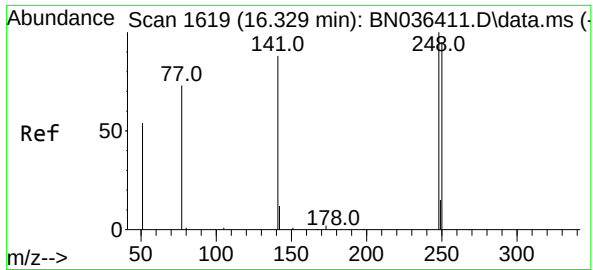
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.260 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

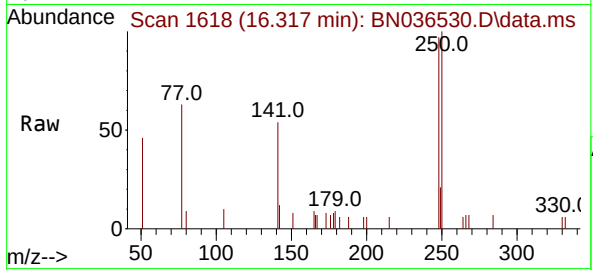
Tgt Ion:198 Resp: 276
Ion Ratio Lower Upper
198 100
51 139.0 86.6 129.8#
105 82.2 57.5 86.3





#21
4-Bromophenyl-phenylether
Concen: 0.406 ng
RT: 16.317 min Scan# 1618
Delta R.T. 0.012 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

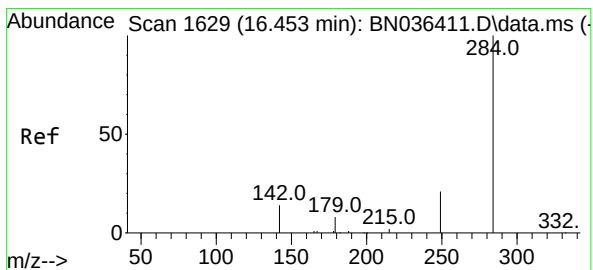
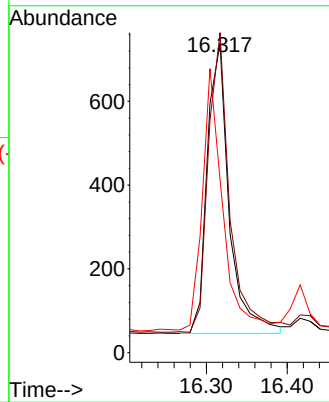
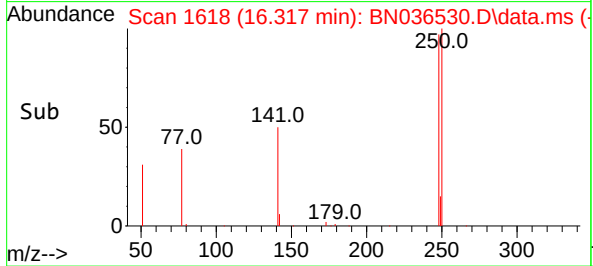
Instrument :
BNA_N
ClientSampleId :
PB166992BS



Tgt Ion:248 Resp: 1308
Ion Ratio Lower Upper
248 100
250 103.5 76.1 114.1
141 56.0 71.7 107.5

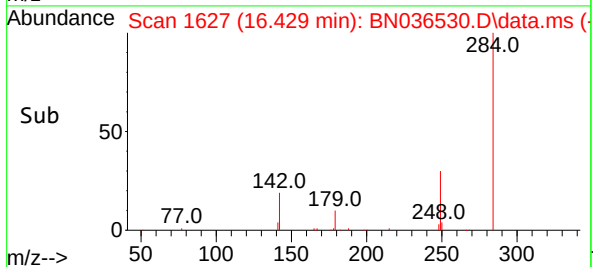
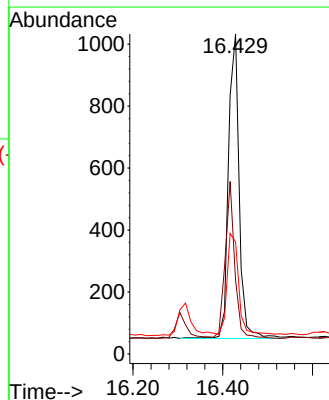
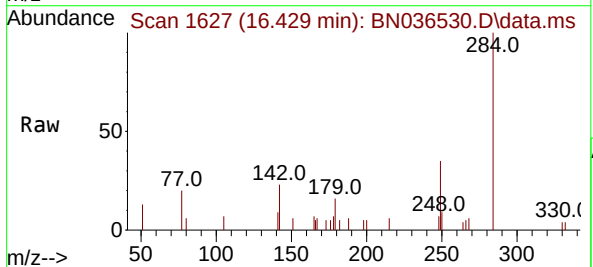
Manual Integrations
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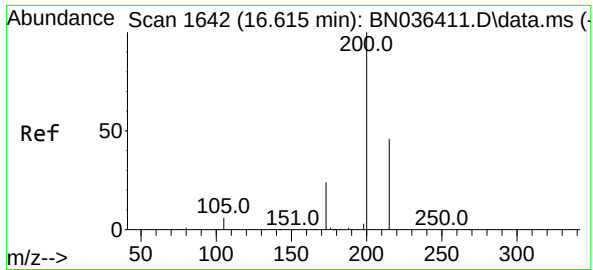
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#22
Hexachlorobenzene
Concen: 0.412 ng
RT: 16.429 min Scan# 1627
Delta R.T. 0.012 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion:284 Resp: 1641
Ion Ratio Lower Upper
284 100
142 45.9 33.4 50.0
249 35.8 28.6 43.0





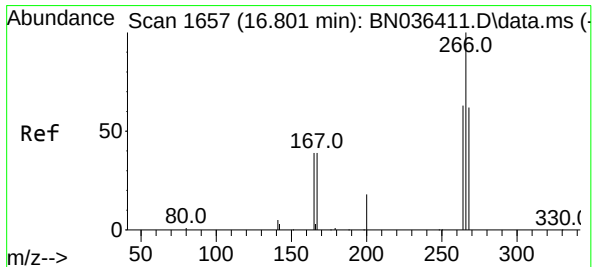
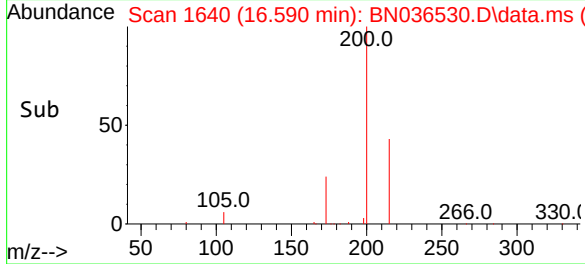
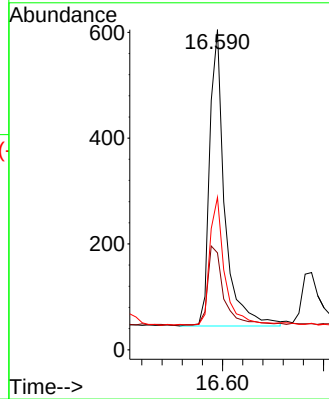
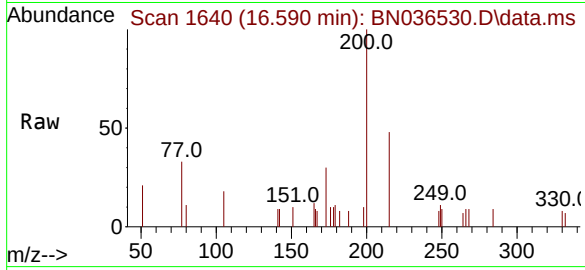
#23
Atrazine
Concen: 0.431 ng
RT: 16.590 min Scan# 1640
Delta R.T. 0.012 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Instrument :
BNA_N
ClientSampleId :
PB166992BS

Tgt Ion:200 Resp: 1160
Ion Ratio Lower Upper
200 100
173 30.2 23.2 34.8
215 47.6 40.0 60.0

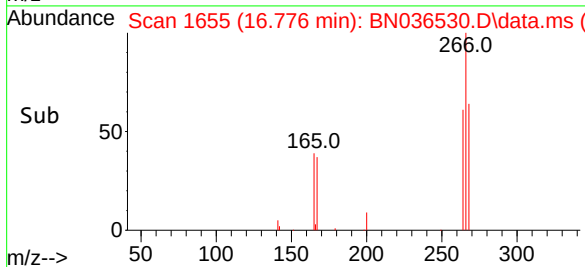
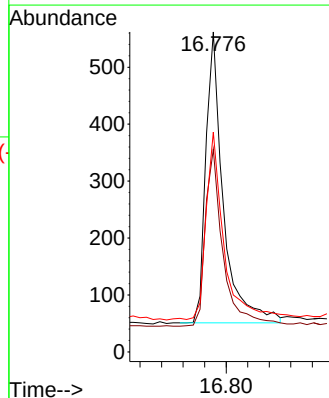
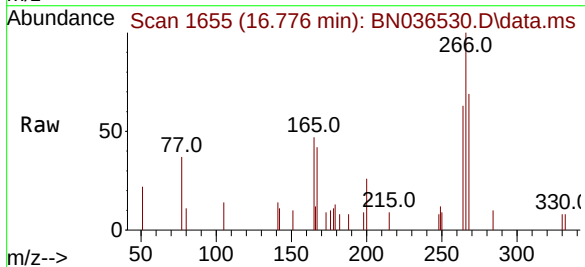
Manual Integrations
APPROVED

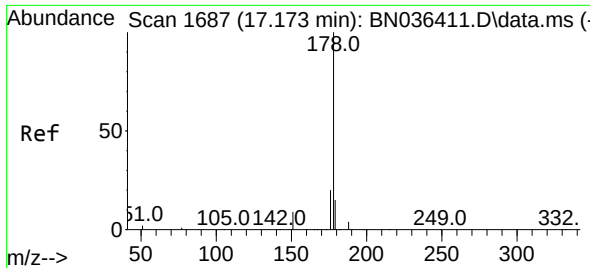
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#24
Pentachlorophenol
Concen: 0.608 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.012 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

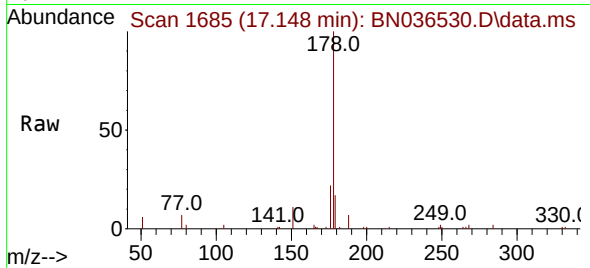
Tgt Ion:266 Resp: 1149
Ion Ratio Lower Upper
266 100
264 62.2 50.6 76.0
268 66.9 51.9 77.9





#25
Phenanthrene
Concen: 0.433 ng
RT: 17.148 min Scan# 1685
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

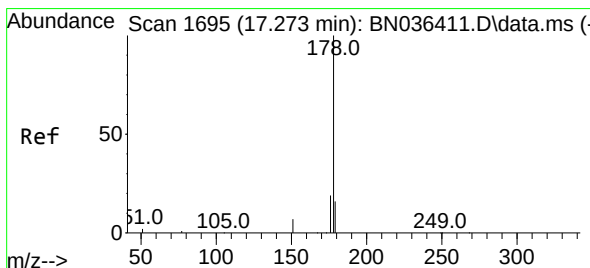
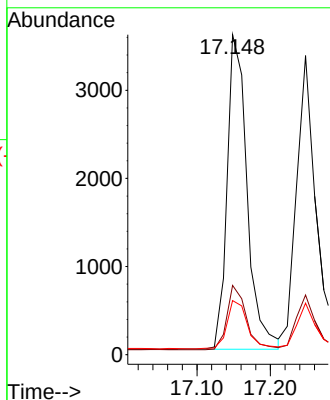
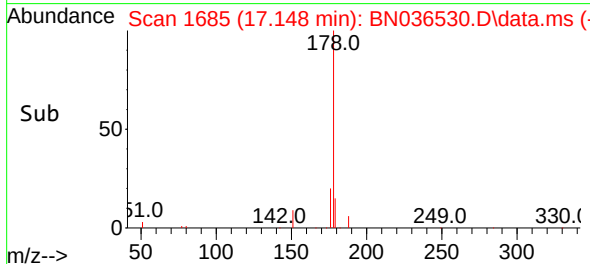
Instrument :
BNA_N
ClientSampleId :
PB166992BS



Tgt Ion:178 Resp: 676
Ion Ratio Lower Upper
178 100
176 19.7 15.7 23.5
179 15.7 12.4 18.6

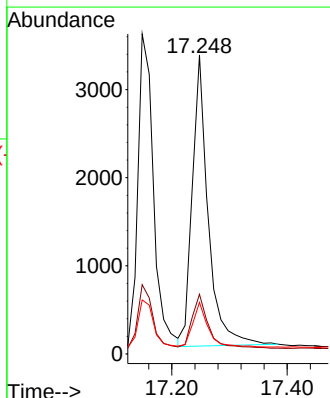
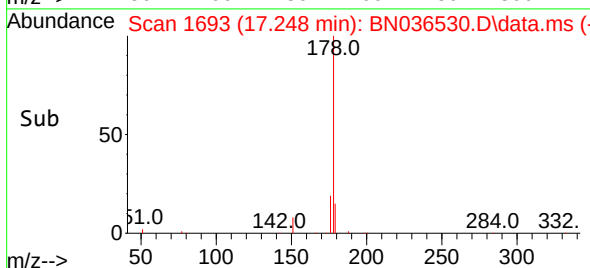
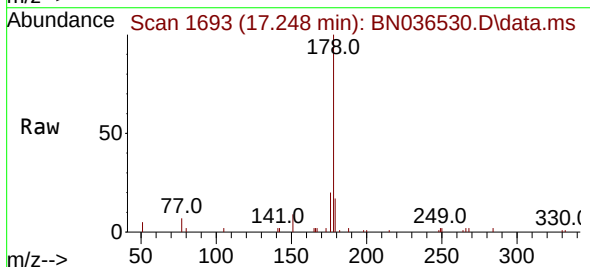
Manual Integrations
APPROVED

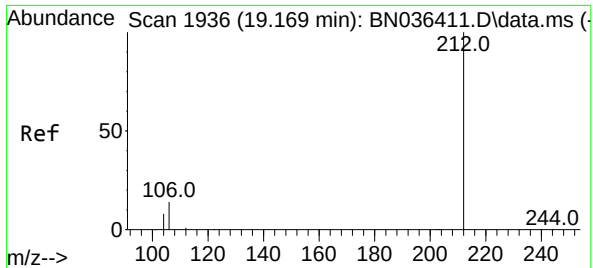
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#26
Anthracene
Concen: 0.459 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.012 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

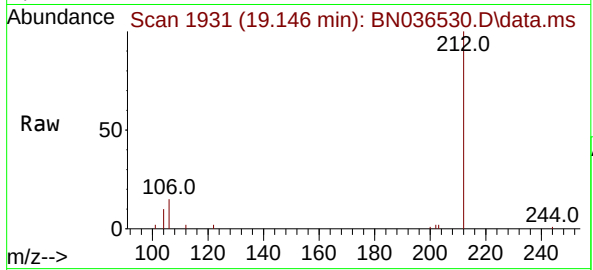
Tgt Ion:178 Resp: 6330
Ion Ratio Lower Upper
178 100
176 19.2 14.9 22.3
179 15.2 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.391 ng
RT: 19.146 min Scan# 1931
Delta R.T. 0.005 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

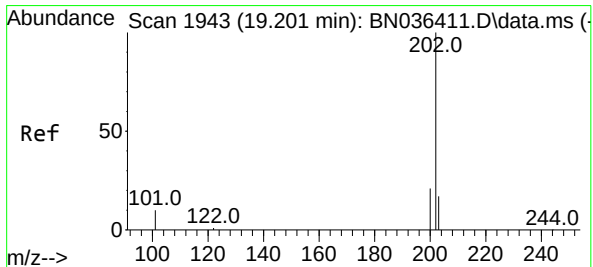
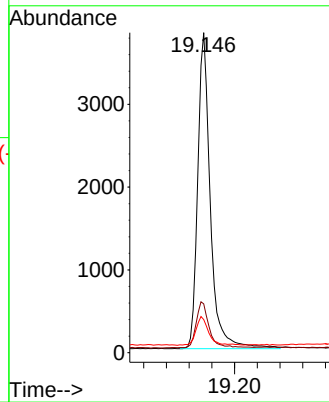
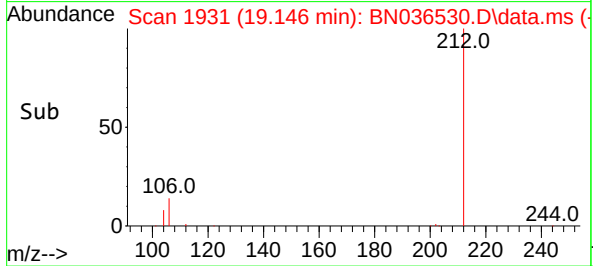
Instrument :
BNA_N
ClientSampleId :
PB166992BS



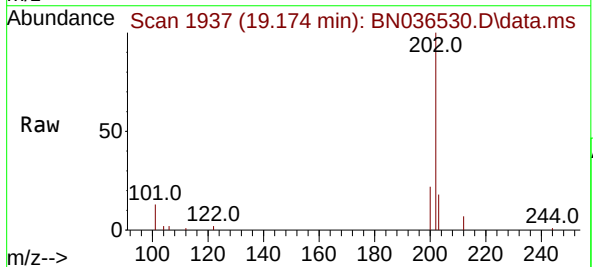
Tgt Ion:212 Resp: 5870
Ion Ratio Lower Upper
212 100
106 14.9 11.5 17.3
104 9.2 7.1 10.7

Manual Integrations
APPROVED

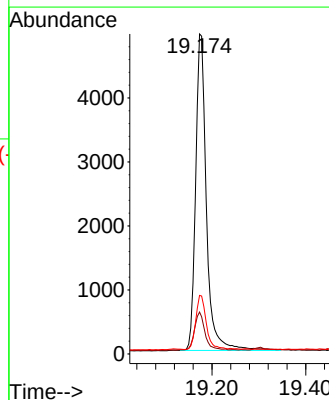
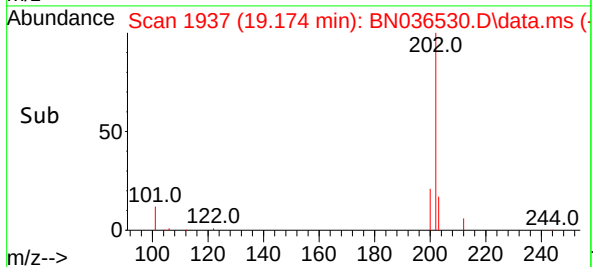
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

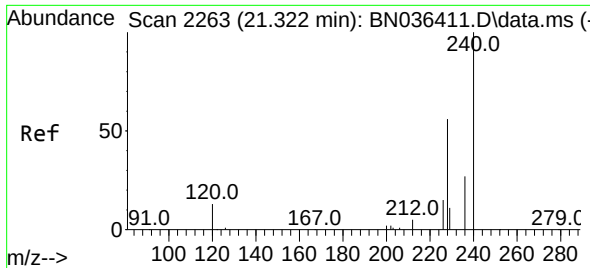


#28
Fluoranthene
Concen: 0.411 ng
RT: 19.174 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43



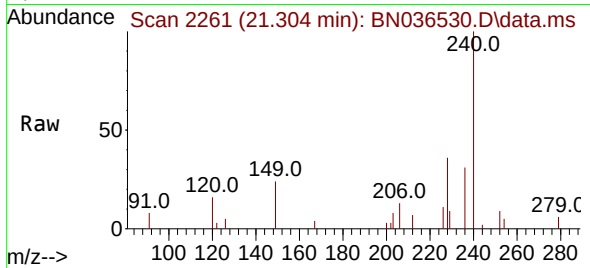
Tgt Ion:202 Resp: 7886
Ion Ratio Lower Upper
202 100
101 11.9 9.2 13.8
203 16.8 13.4 20.0





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

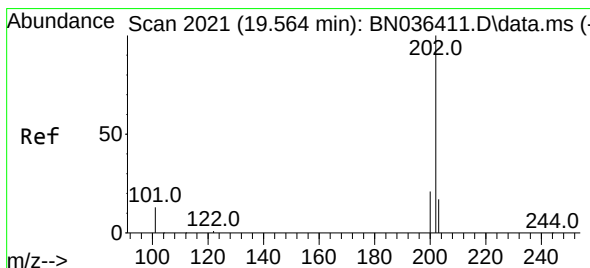
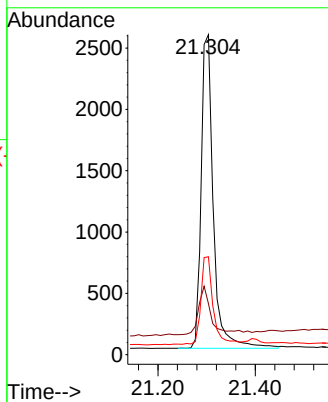
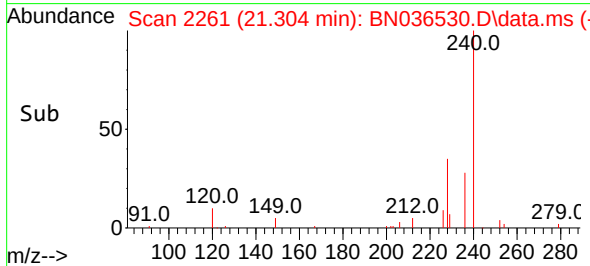
Instrument :
BNA_N
ClientSampleId :
PB166992BS



Tgt Ion:240 Resp: 444
Ion Ratio Lower Upper
240 100
120 15.9 13.3 19.9
236 30.6 23.0 34.6

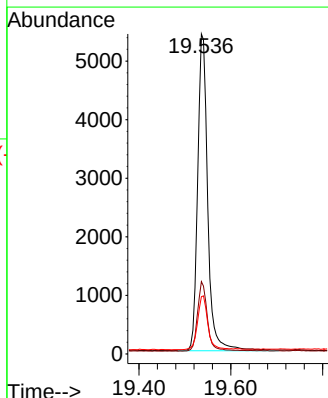
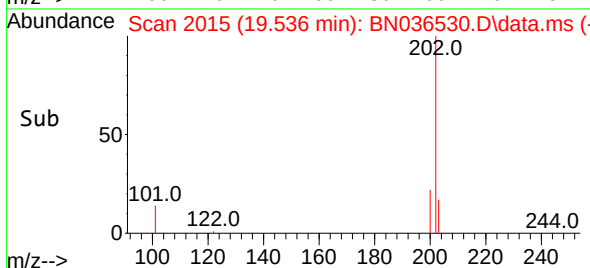
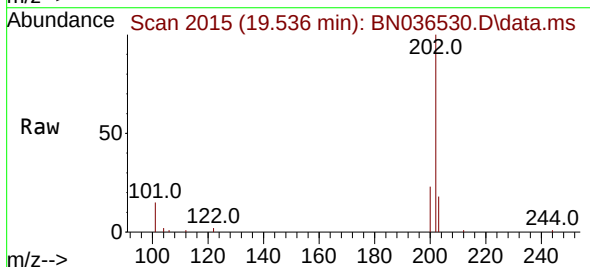
Manual Integrations
APPROVED

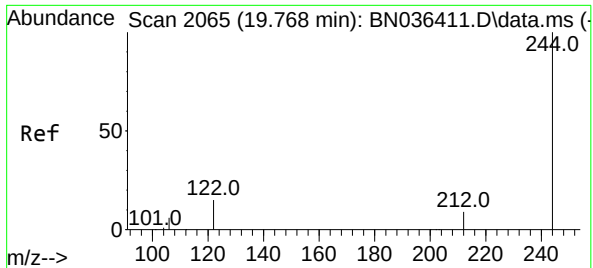
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#30
Pyrene
Concen: 0.481 ng
RT: 19.536 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion:202 Resp: 8237
Ion Ratio Lower Upper
202 100
200 21.5 16.9 25.3
203 17.5 13.9 20.9





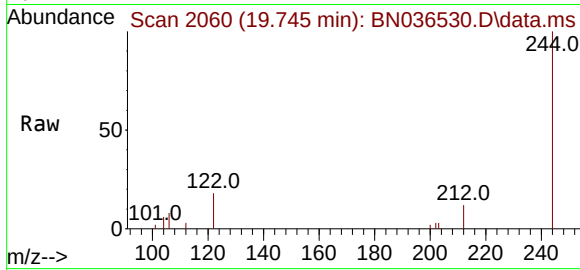
#31
Terphenyl-d14
Concen: 0.457 ng
RT: 19.745 min Scan# 2065
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Instrument :

BNA_N

ClientSampleId :

PB166992BS

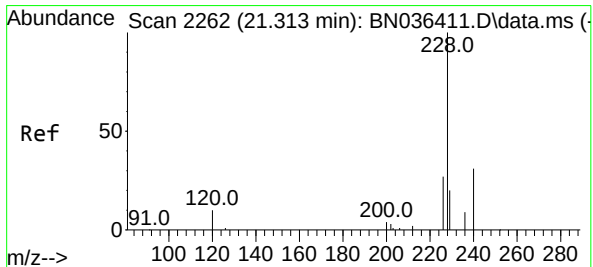
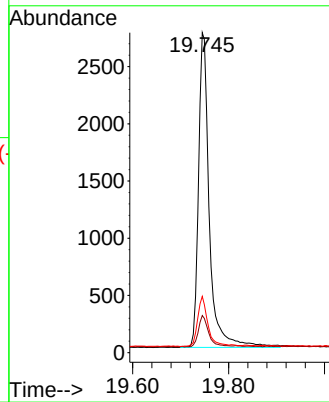
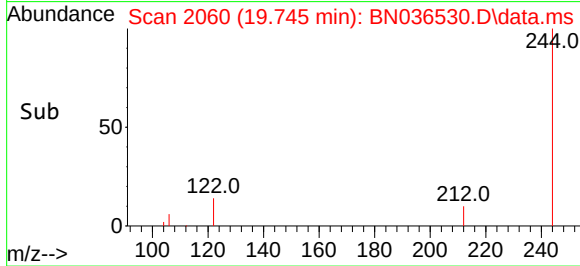


Tgt Ion:244 Resp: 4330
Ion Ratio Lower Upper
244 100
212 11.6 8.1 12.1
122 17.6 12.8 19.2

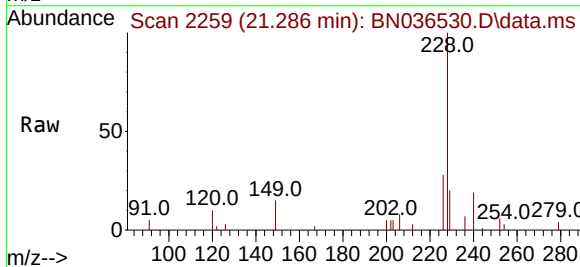
Manual Integrations

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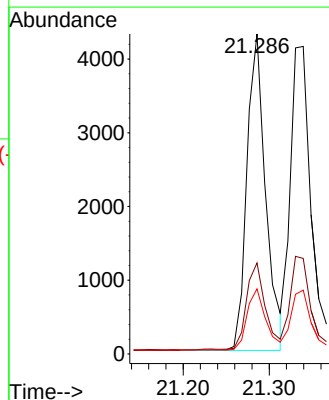
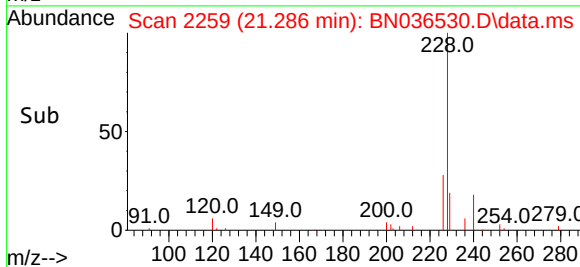
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

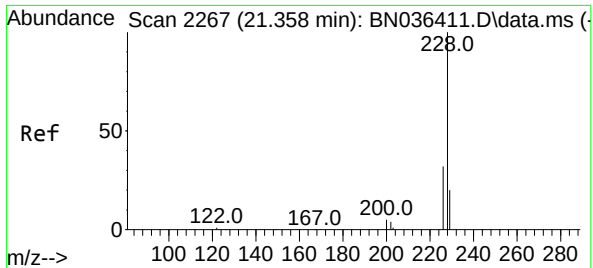


#32
Benzo(a)anthracene
Concen: 0.444 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.009 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43



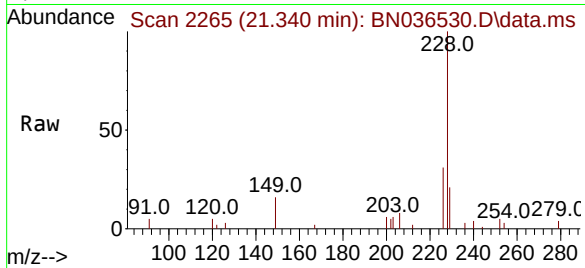
Tgt Ion:228 Resp: 6490
Ion Ratio Lower Upper
228 100
226 28.5 22.2 33.2
229 20.4 16.5 24.7





#33
Chrysene
Concen: 0.455 ng
RT: 21.340 min Scan# 2111
Delta R.T. 0.009 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

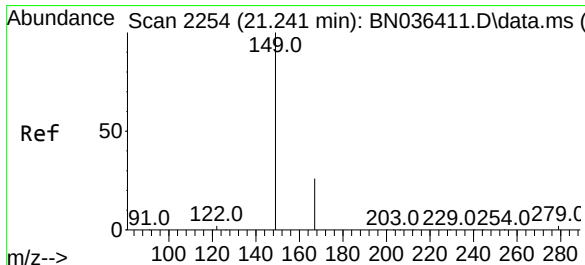
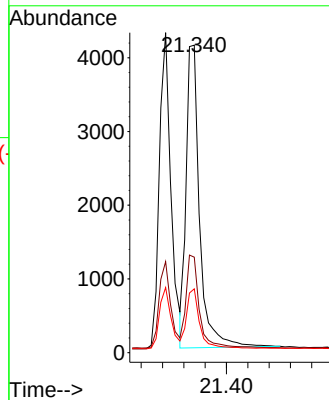
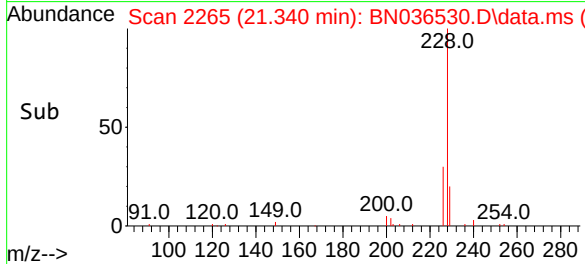
Instrument :
BNA_N
ClientSampleId :
PB166992BS



Tgt Ion:228 Resp: 7211
Ion Ratio Lower Upper
228 100
226 31.1 25.5 38.3
229 20.8 16.4 24.6

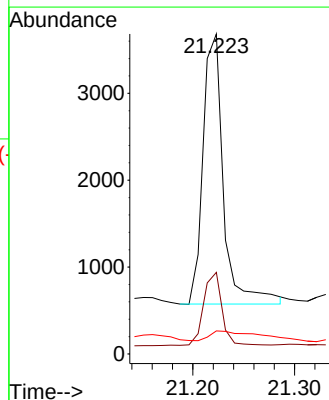
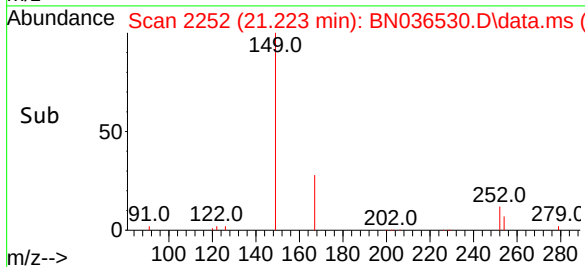
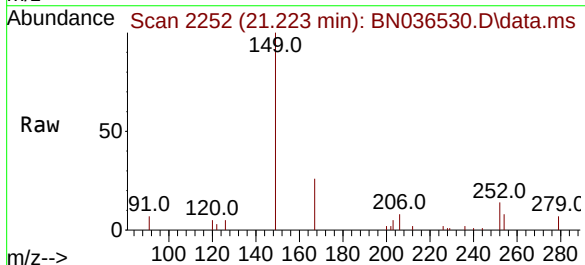
Manual Integrations
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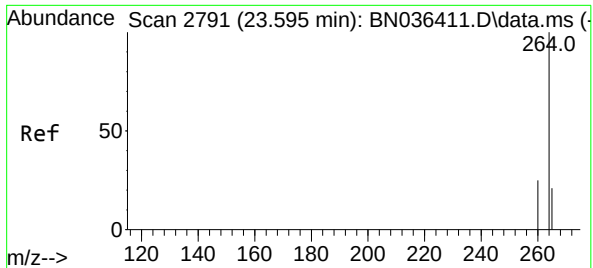
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.475 ng
RT: 21.223 min Scan# 2252
Delta R.T. 0.009 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

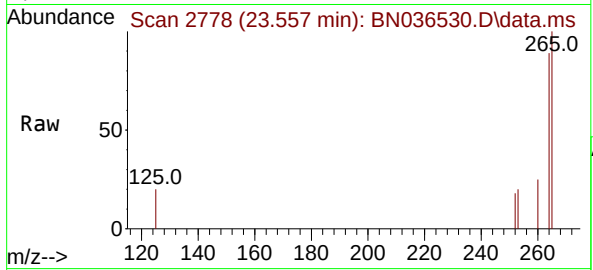
Tgt Ion:149 Resp: 4333
Ion Ratio Lower Upper
149 100
167 24.1 21.2 31.8
279 8.1 2.7 4.1#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.557 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

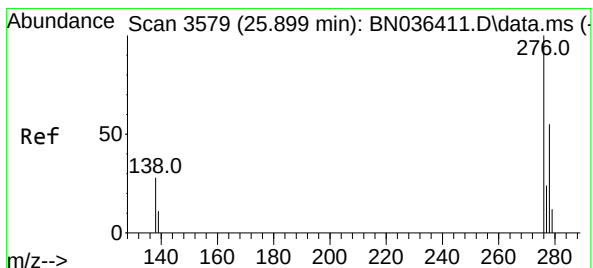
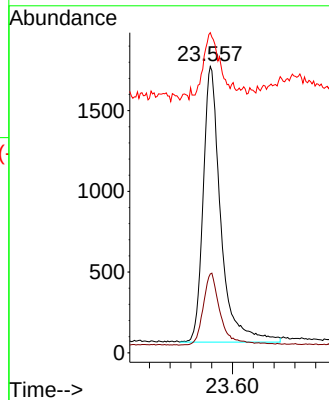
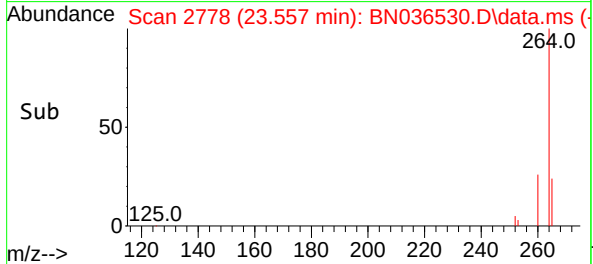
Instrument :
BNA_N
ClientSampleId :
PB166992BS



Tgt Ion:264 Resp: 4010
Ion Ratio Lower Upper
264 100
260 27.5 20.9 31.3
265 111.8 60.7 91.1

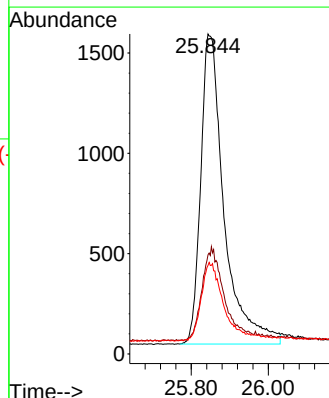
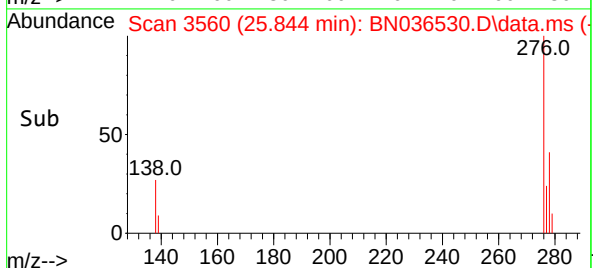
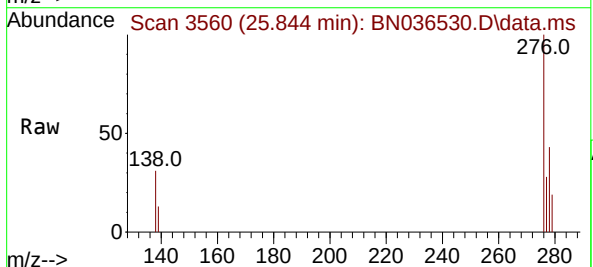
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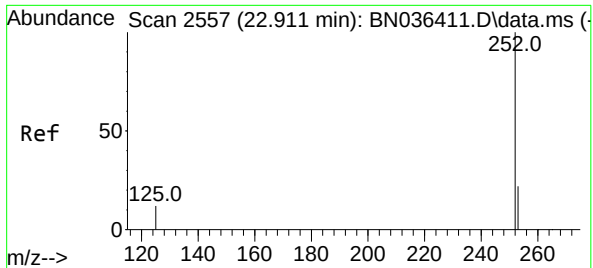
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.463 ng
RT: 25.844 min Scan# 3560
Delta R.T. 0.006 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

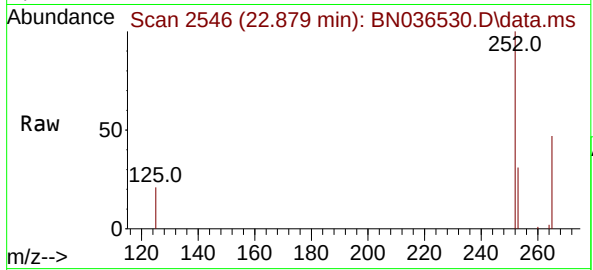
Tgt Ion:276 Resp: 6502
Ion Ratio Lower Upper
276 100
138 27.8 22.2 33.2
277 23.5 19.8 29.6





#37
Benzo(b)fluoranthene
Concen: 0.437 ng
RT: 22.879 min Scan# 2546
Delta R.T. 0.006 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

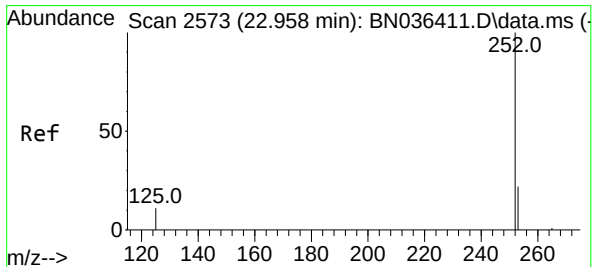
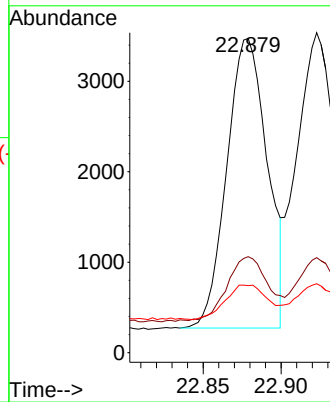
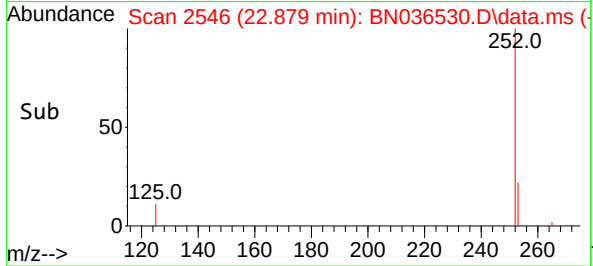
Instrument :
BNA_N
ClientSampleId :
PB166992BS



Tgt Ion:252 Resp: 577
Ion Ratio Lower Upper
252 100
253 30.5 21.9 32.9
125 21.4 15.0 22.6

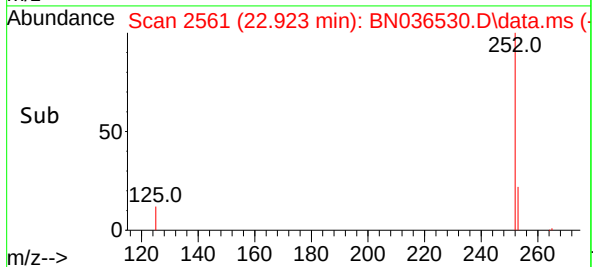
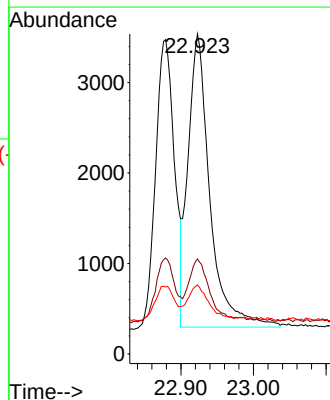
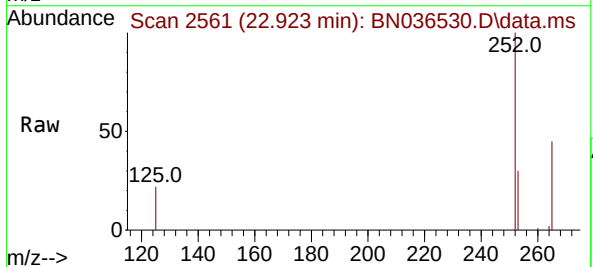
Manual Integrations
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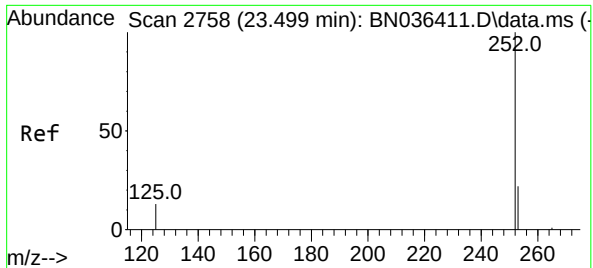
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#38
Benzo(k)fluoranthene
Concen: 0.497 ng m
RT: 22.923 min Scan# 2561
Delta R.T. 0.006 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion:252 Resp: 6769
Ion Ratio Lower Upper
252 100
253 29.7 22.2 33.4
125 21.6 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.467 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036530.D

Acq: 05 Mar 2025 18:43

Instrument :

BNA_N

ClientSampleId :

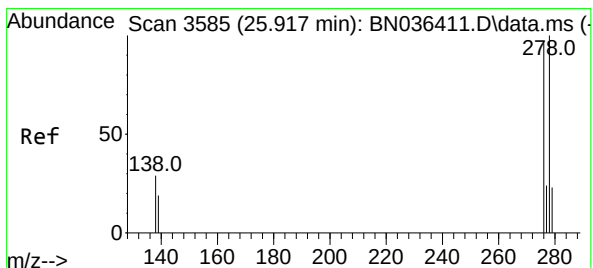
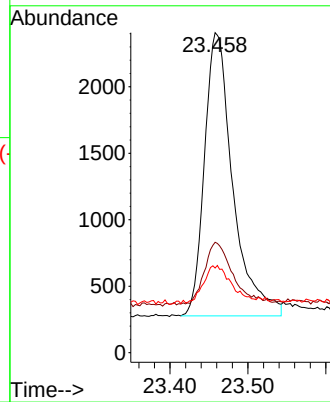
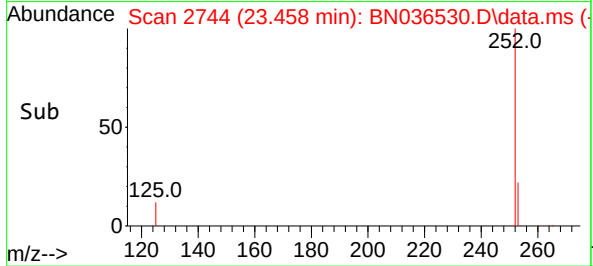
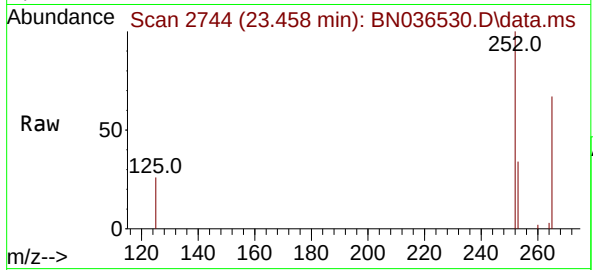
PB166992BS

Tgt Ion:	252	Resp:	538
Ion Ratio	Lower	Upper	
252	100		
253	34.5	24.4	36.6
125	26.5	18.2	27.2

Manual Integrations

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Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.430 ng

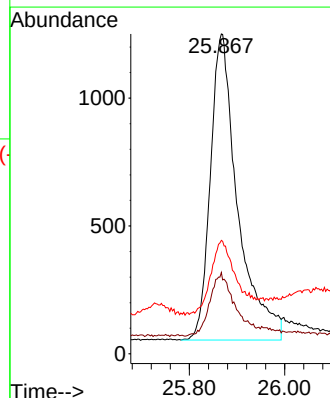
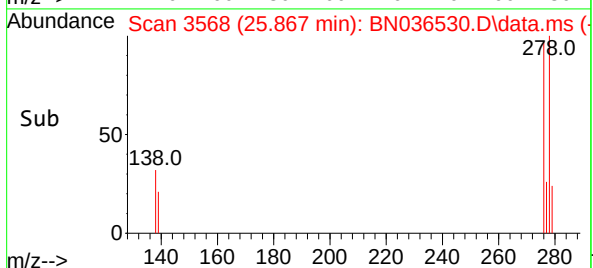
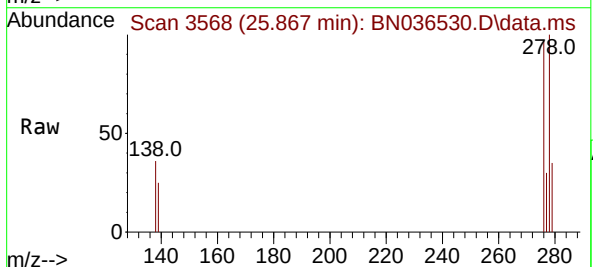
RT: 25.867 min Scan# 3568

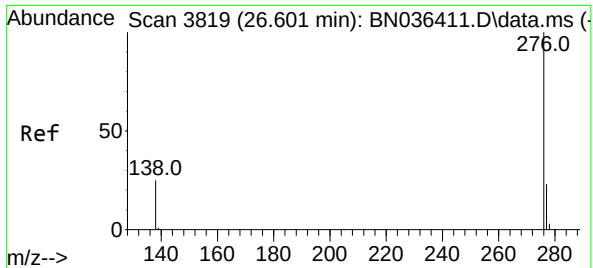
Delta R.T. 0.015 min

Lab File: BN036530.D

Acq: 05 Mar 2025 18:43

Tgt Ion:	278	Resp:	4767
Ion Ratio	Lower	Upper	
278	100		
139	25.4	18.5	27.7
279	35.5	24.8	37.2





#41

Benzo(g,h,i)perylene

Concen: 0.411 ng

RT: 26.542 min Scan# 31

Delta R.T. 0.015 min

Lab File: BN036530.D

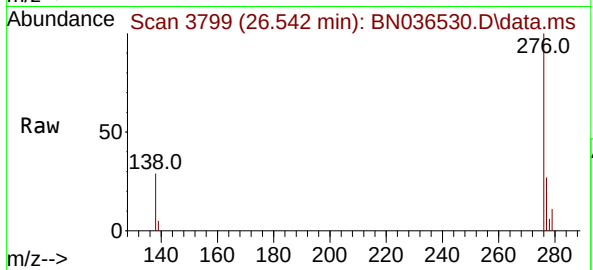
Acq: 05 Mar 2025 18:43

Instrument :

BNA_N

ClientSampleId :

PB166992BS



Tgt Ion:276 Resp: 5159

Ion Ratio Lower Upper

276 100

277 26.8 20.7 31.1

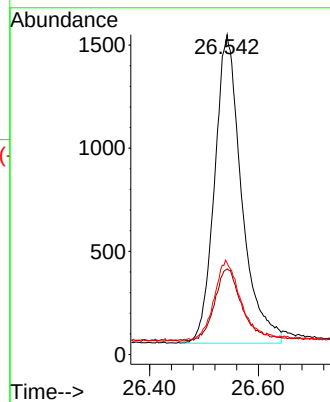
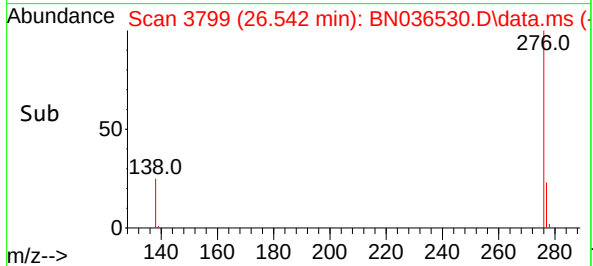
138 28.6 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/06/2025

Supervised By :Jagrut Upadhyay 03/06/2025



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB166992BSD	SDG No.:	Q1477
Lab Sample ID:	PB166992BSD	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
BN036531.D	1	03/05/25 09:15	03/05/25 19:18	PB166992

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	0.50		30 - 150		124%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		102%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.62	*	53 - 106		154%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		115%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1890	7.732				
1146-65-2	Naphthalene-d8	4340	10.52				
15067-26-2	Acenaphthene-d10	2420	14.366				
1517-22-2	Phenanthrene-d10	4940	17.111				
1719-03-5	Chrysene-d12	4100	21.295				
1520-96-3	Perylene-d12	3860	23.557				

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\BN030525\
 Data File : BN036531.D
 Acq On : 05 Mar 2025 19:18
 Operator : RC/JU
 Sample : PB166992BSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166992BSD

Manual Integrations
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Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 06 00:03:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	1886	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	4343	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2423	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	4936	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4101	0.400	ng	# 0.00
35) Perylene-d12	23.557	264	3858	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.327	112	1860	0.417	ng	0.00
5) Phenol-d6	6.908	99	2080	0.398	ng	0.00
8) Nitrobenzene-d5	8.875	82	1742	0.407	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3306	0.495	ng	0.00
14) 2,4,6-Tribromophenol	15.870	330	407	0.339	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	5633	0.618	ng	0.00
27) Fluoranthene-d10	19.146	212	5524	0.402	ng	0.00
31) Terphenyl-d14	19.750	244	4044	0.462	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	775	0.376	ng	# 58
3) n-Nitrosodimethylamine	3.550	42	1630	0.455	ng	91
6) bis(2-Chloroethyl)ether	7.154	93	2180	0.399	ng	97
9) Naphthalene	10.562	128	4933	0.394	ng	98
10) Hexachlorobutadiene	10.861	225	1251	0.410	ng	# 99
12) 2-Methylnaphthalene	12.187	142	3089	0.376	ng	97
16) Acenaphthylene	14.088	152	5041	0.471	ng	100
17) Acenaphthene	14.430	154	3166	0.443	ng	98
18) Fluorene	15.425	166	4113	0.404	ng	97
20) 4,6-Dinitro-2-methylph...	15.510	198	269	0.278	ng	# 81
21) 4-Bromophenyl-phenylether	16.317	248	1233	0.419	ng	# 81
22) Hexachlorobenzene	16.429	284	1525	0.419	ng	96
23) Atrazine	16.590	200	1087	0.442	ng	95
24) Pentachlorophenol	16.776	266	1113	0.645	ng	99
25) Phenanthrene	17.149	178	6334	0.444	ng	99
26) Anthracene	17.248	178	6001	0.477	ng	99
28) Fluoranthene	19.174	202	7495	0.428	ng	99
30) Pyrene	19.541	202	7760	0.491	ng	99
32) Benzo(a)anthracene	21.286	228	6200	0.459	ng	98
33) Chrysene	21.340	228	6883	0.471	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	3851	0.458	ng	99
36) Indeno(1,2,3-cd)pyrene	25.849	276	6430	0.477	ng	99
37) Benzo(b)fluoranthene	22.876	252	5588	0.440	ng	97
38) Benzo(k)fluoranthene	22.920	252	6525m	0.499	ng	
39) Benzo(a)pyrene	23.461	252	5395	0.487	ng	94
40) Dibenzo(a,h)anthracene	25.864	278	4774	0.449	ng	96
41) Benzo(g,h,i)perylene	26.542	276	5348	0.443	ng	98

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

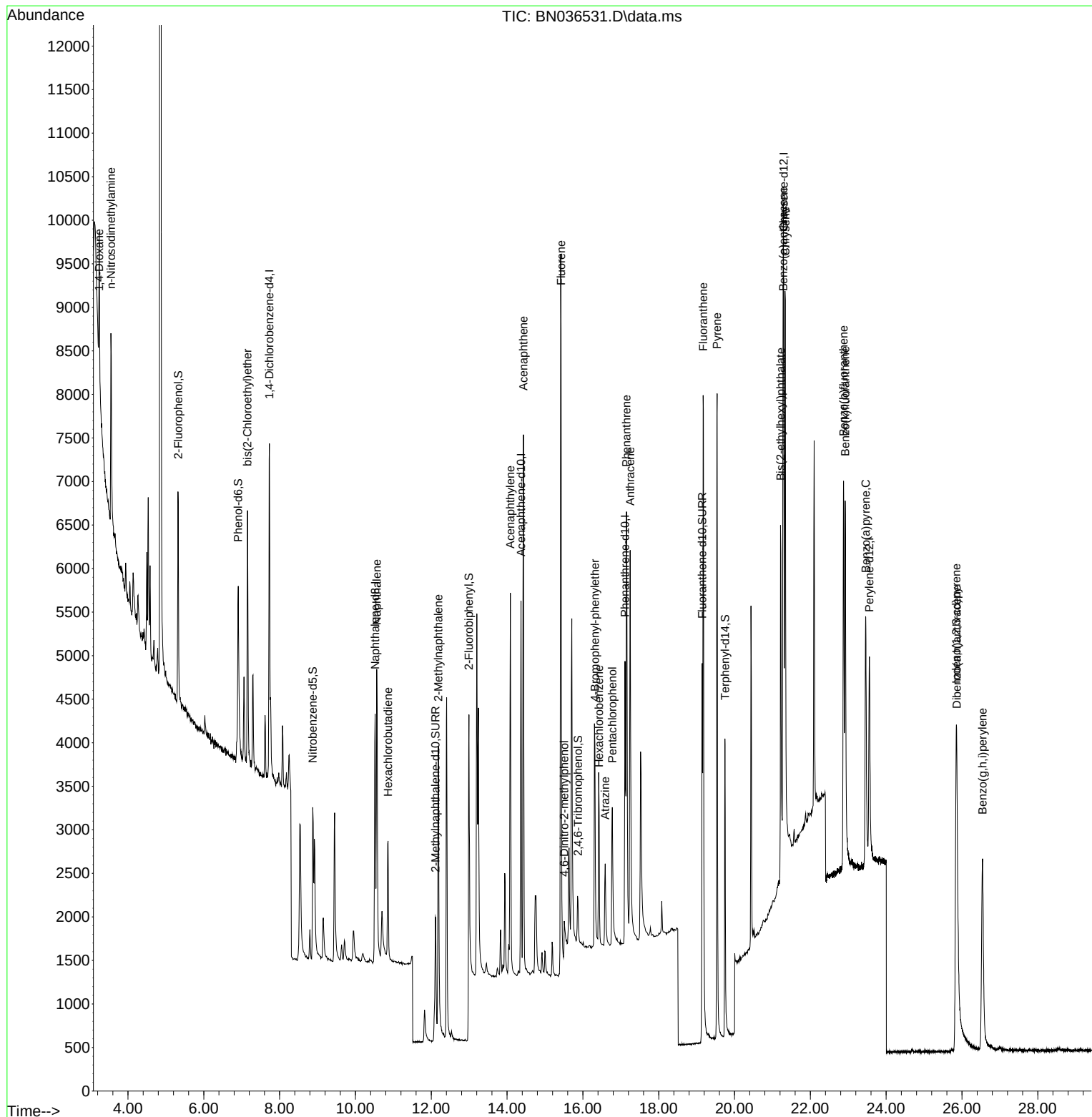
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 Data File : BN036531.D
 Acq On : 05 Mar 2025 19:18
 Operator : RC/JU
 Sample : PB166992BSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

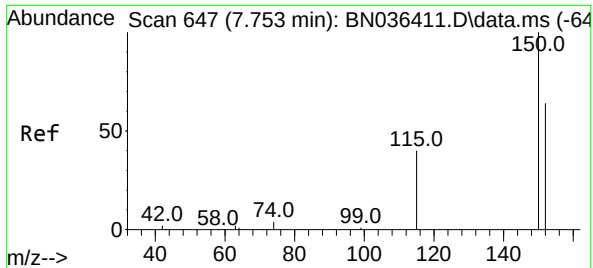
Instrument :
 BNA_N
 ClientSampleId :
 PB166992BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
 Supervised By :Jagrut Upadhyay 03/06/2025

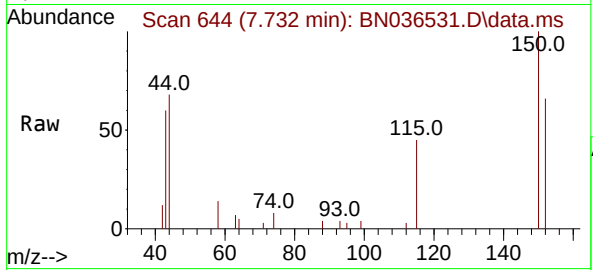
Quant Time: Mar 06 00:03:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.732 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

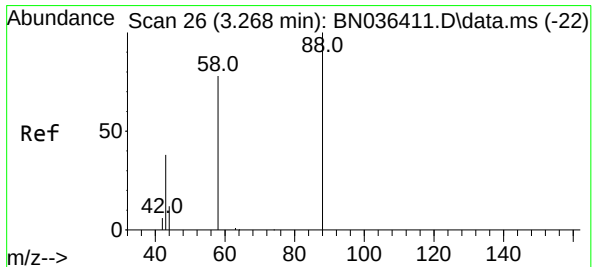
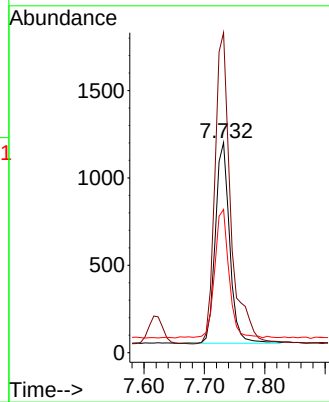
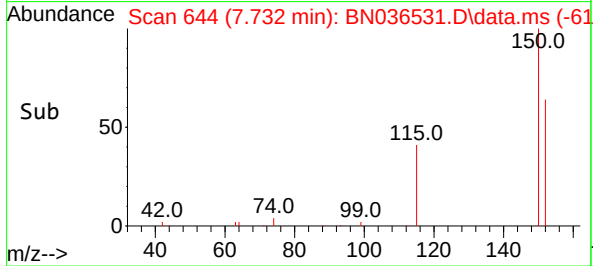
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



Tgt Ion:152 Resp: 1880
Ion Ratio Lower Upper
152 100
150 152.3 123.7 185.5
115 68.1 52.5 78.7

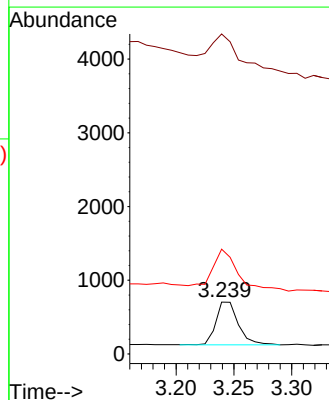
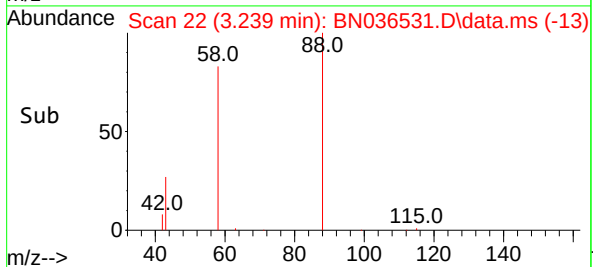
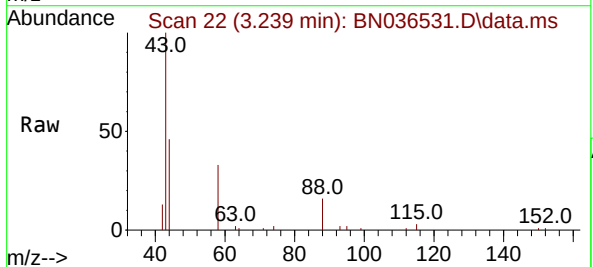
Manual Integrations
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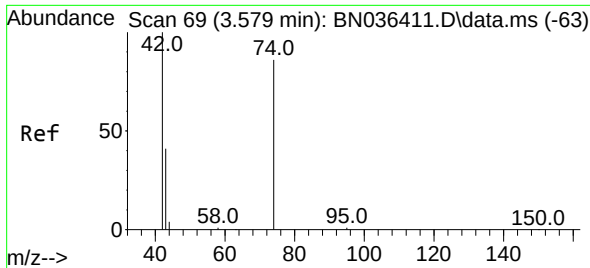
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#2
1,4-Dioxane
Concen: 0.376 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.007 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

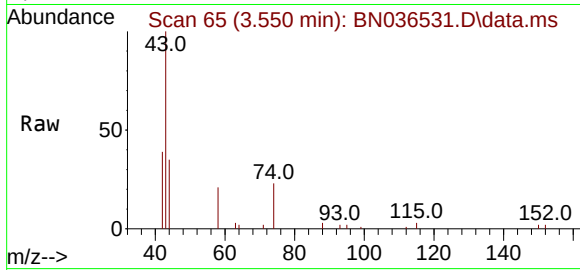
Tgt Ion: 88 Resp: 775
Ion Ratio Lower Upper
88 100
43 110.6 33.7 50.5#
58 94.6 68.9 103.3





#3
n-Nitrosodimethylamine
Concen: 0.455 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

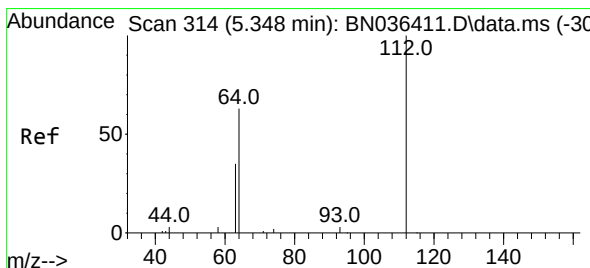
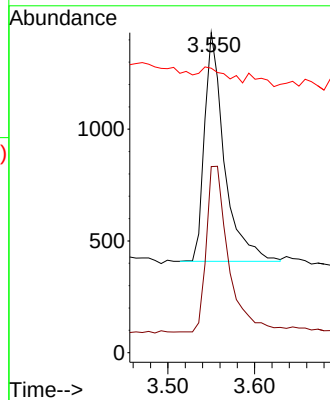
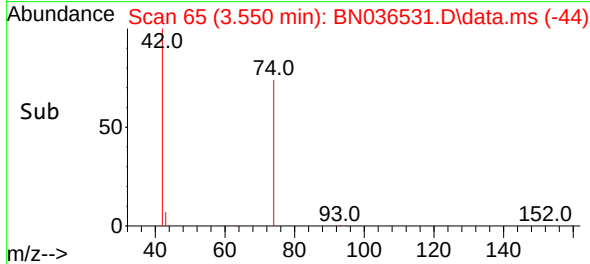
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



Tgt Ion: 42 Resp: 1630
Ion Ratio Lower Upper
42 100
74 81.1 71.8 107.6
44 8.5 7.8 11.6

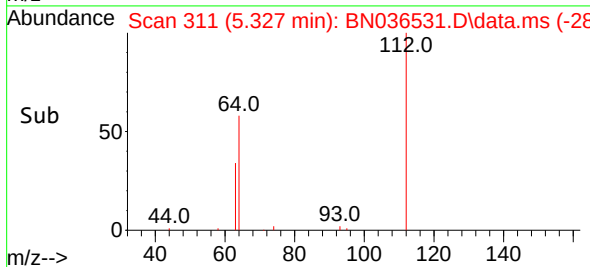
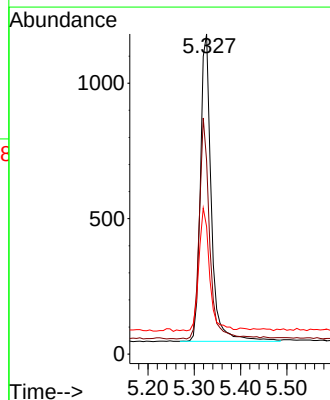
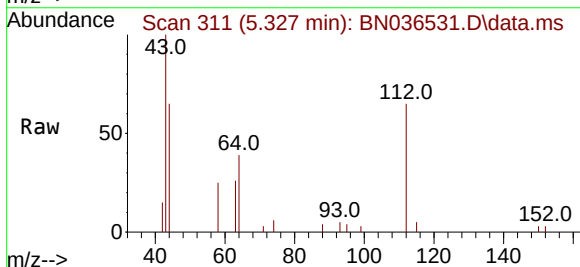
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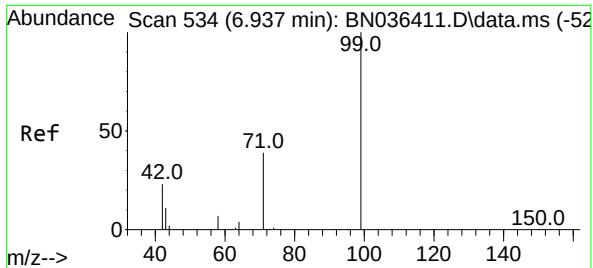
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.327 min Scan# 311
Delta R.T. 0.007 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

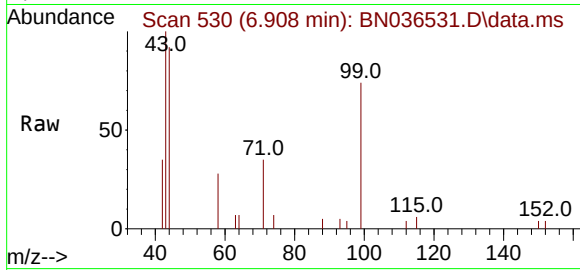
Tgt Ion:112 Resp: 1860
Ion Ratio Lower Upper
112 100
64 68.5 53.4 80.0
63 39.3 30.3 45.5





#5
Phenol-d6
Concen: 0.398 ng
RT: 6.908 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

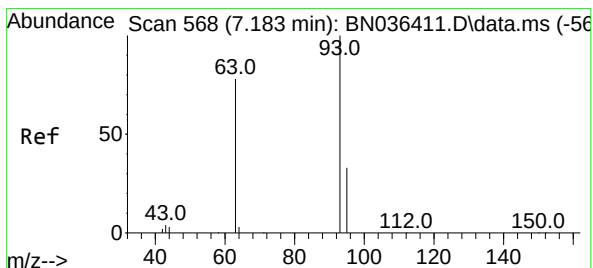
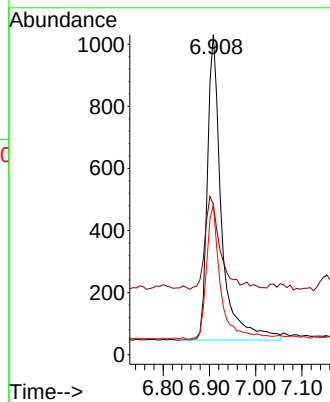
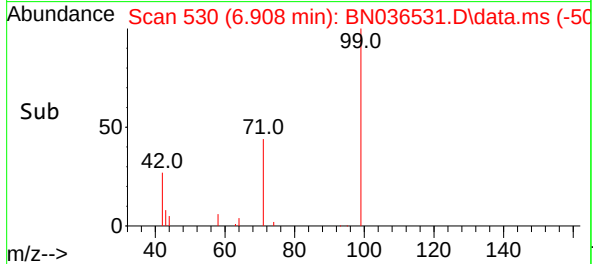
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



Tgt Ion: 99 Resp: 2080
Ion Ratio Lower Upper
99 100
42 31.8 21.7 32.5
71 43.9 32.6 49.0

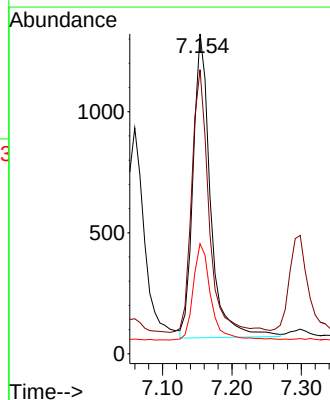
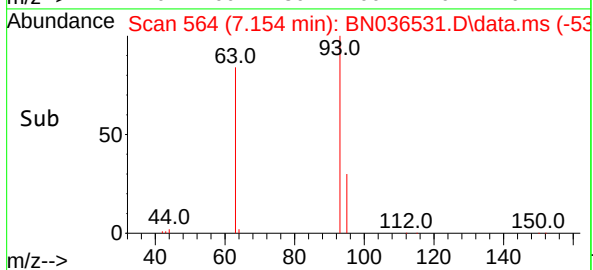
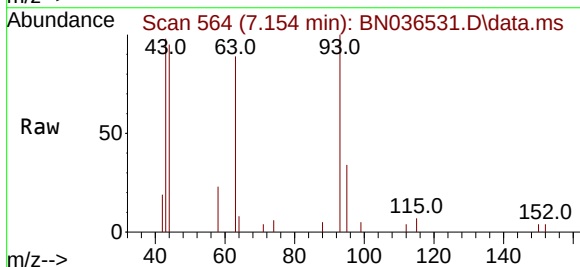
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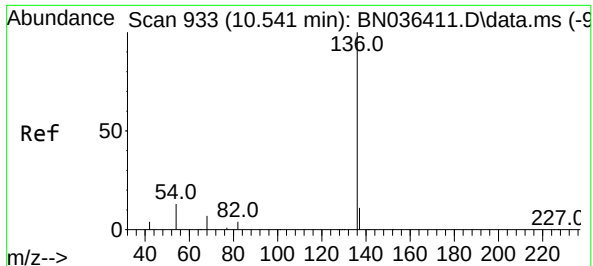
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.399 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

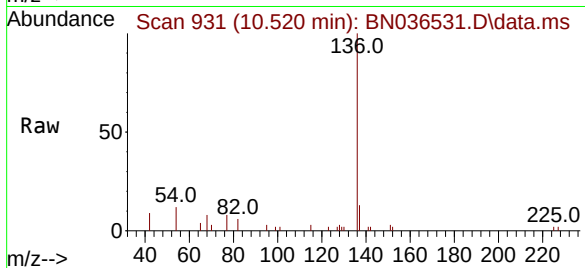
Tgt Ion: 93 Resp: 2180
Ion Ratio Lower Upper
93 100
63 85.4 66.3 99.5
95 31.7 26.2 39.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

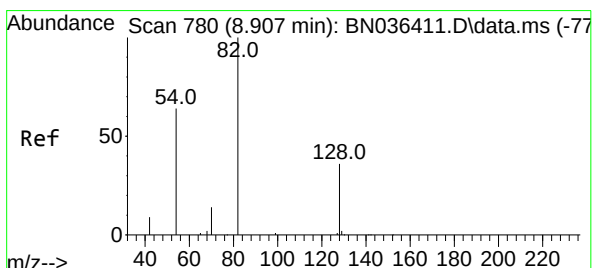
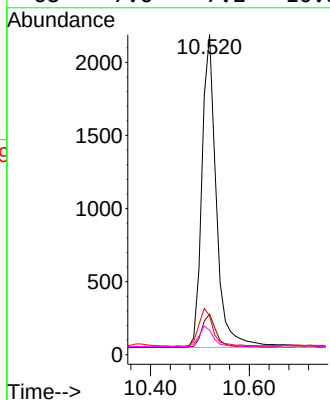
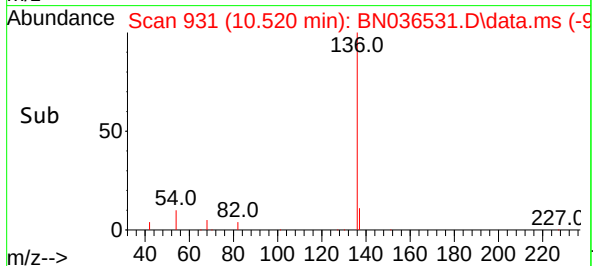
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



Tgt Ion:136 Resp: 434
Ion Ratio Lower Upper
136 100
137 12.7 10.1 15.1
54 12.1 11.8 17.6
68 7.6 7.2 10.8

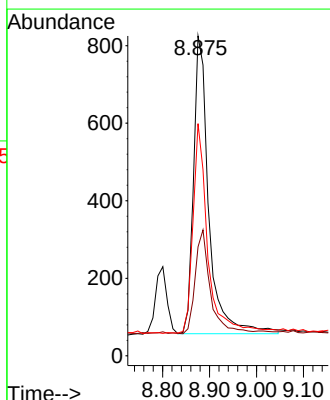
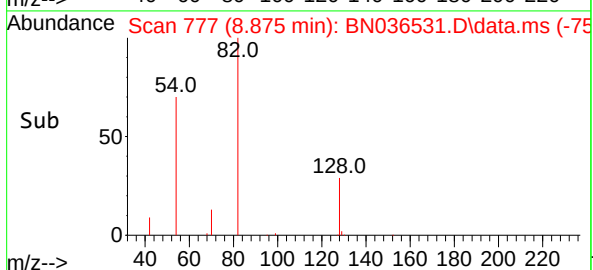
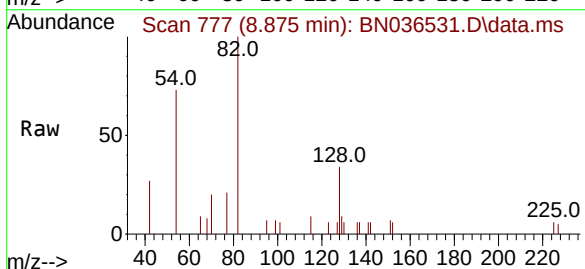
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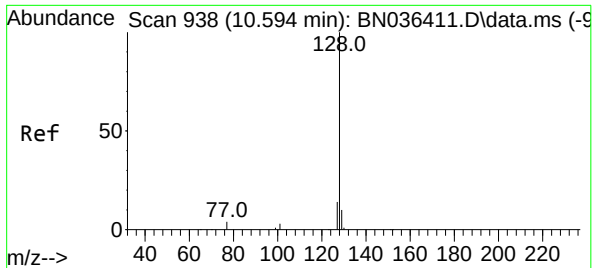
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#8
Nitrobenzene-d5
Concen: 0.407 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion: 82 Resp: 1742
Ion Ratio Lower Upper
82 100
128 34.1 31.9 47.9
54 72.6 53.1 79.7





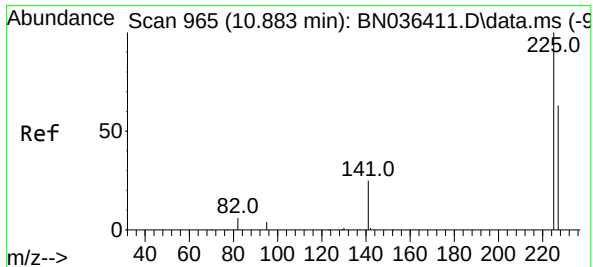
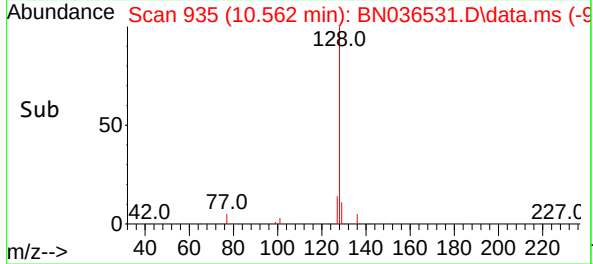
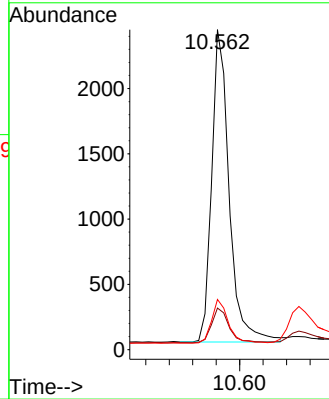
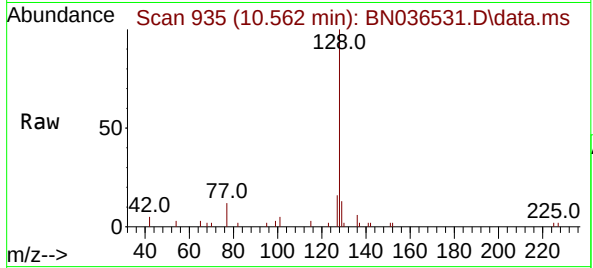
#9
Naphthalene
Concen: 0.394 ng
RT: 10.562 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Instrument :
BNA_N
ClientSampleId :
PB166992BSD

Tgt Ion:128 Resp: 493
Ion Ratio Lower Upper
128 100
129 13.0 9.6 14.4
127 15.7 12.0 18.0

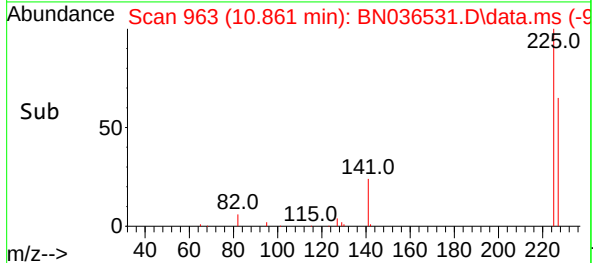
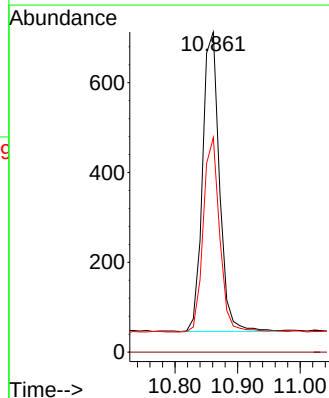
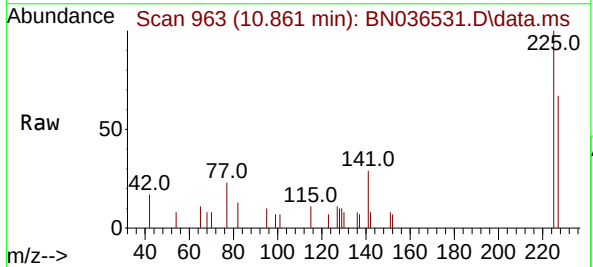
Manual Integrations
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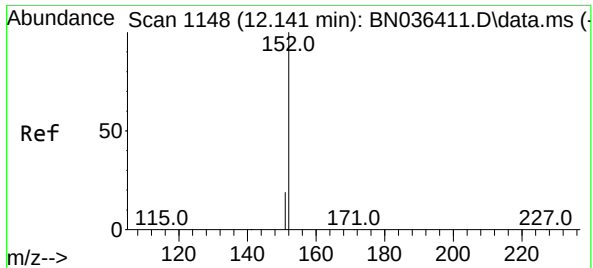
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#10
Hexachlorobutadiene
Concen: 0.410 ng
RT: 10.861 min Scan# 963
Delta R.T. 0.011 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

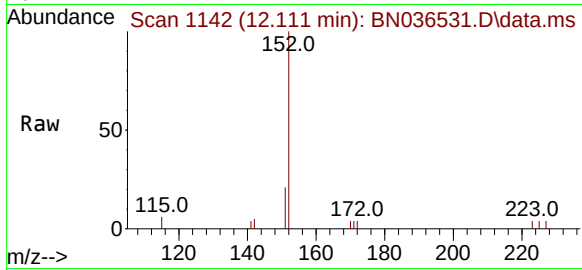
Tgt Ion:225 Resp: 1251
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.1 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.495 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.005 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

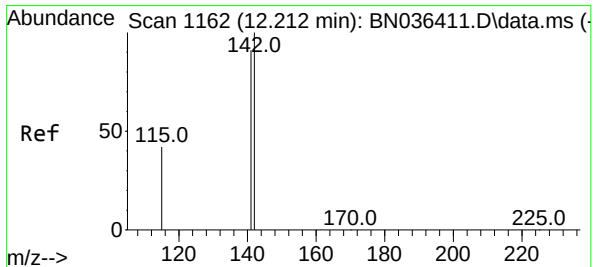
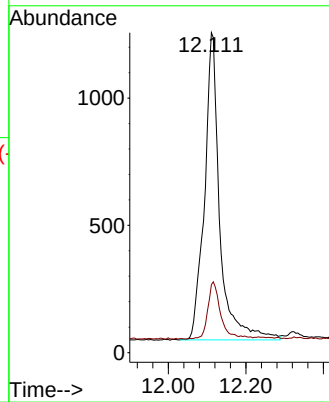
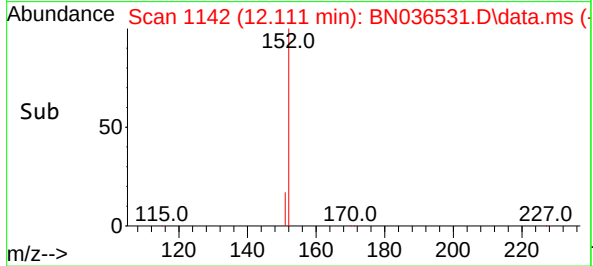
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



Tgt Ion:152 Resp: 3300
Ion Ratio Lower Upper
152 100
151 15.1 16.6 25.0

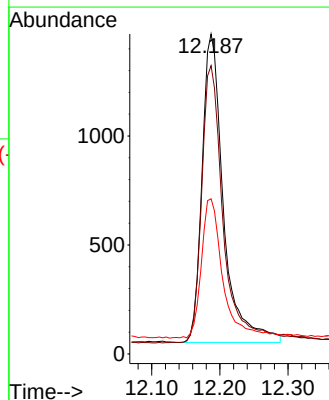
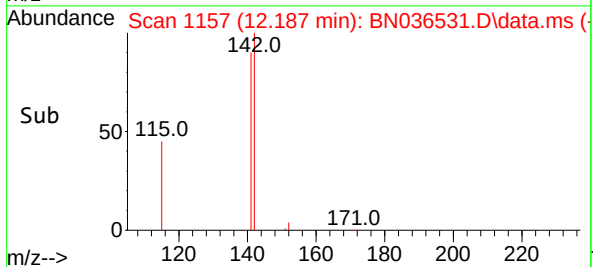
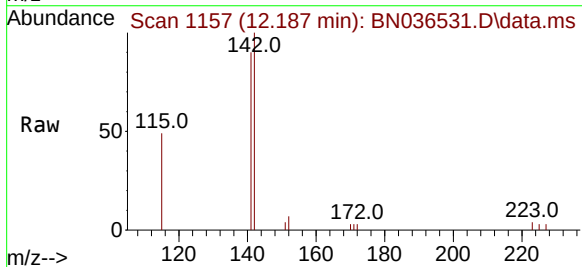
Manual Integrations
APPROVED

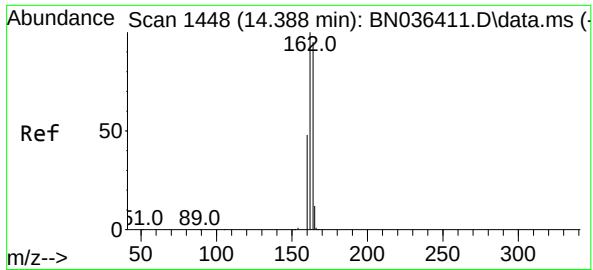
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#12
2-Methylnaphthalene
Concen: 0.376 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

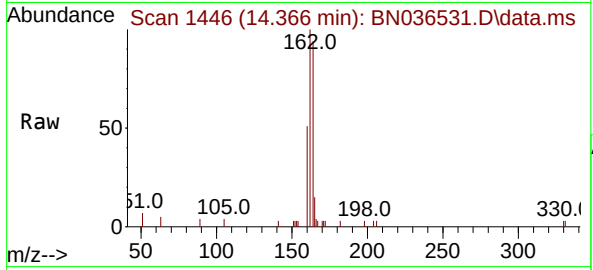
Tgt Ion:142 Resp: 3089
Ion Ratio Lower Upper
142 100
141 90.1 72.8 109.2
115 48.5 35.5 53.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

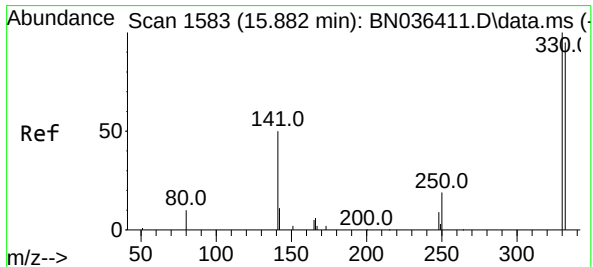
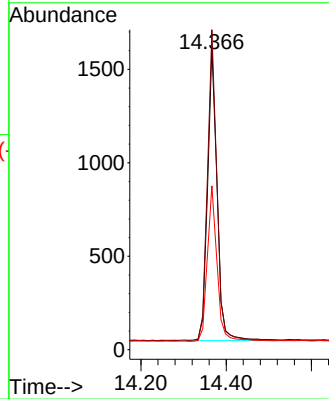
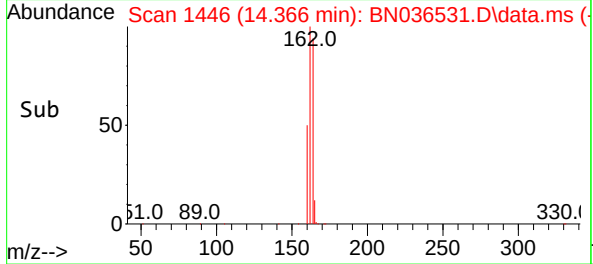
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



Tgt Ion:164 Resp: 242
Ion Ratio Lower Upper
164 100
162 106.0 84.1 126.1
160 54.3 41.4 62.0

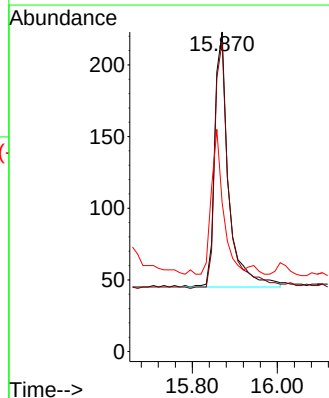
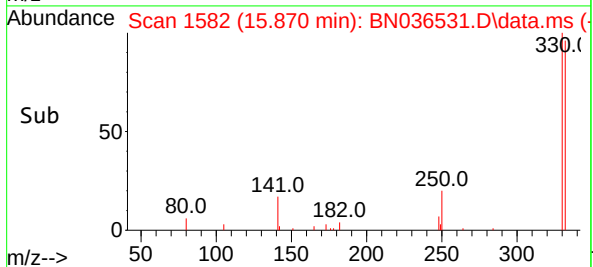
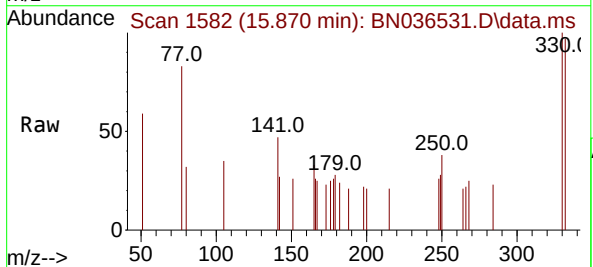
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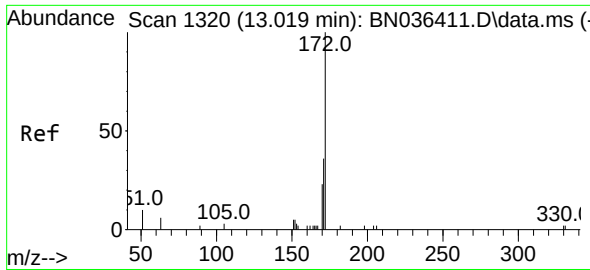
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#14
2,4,6-Tribromophenol
Concen: 0.339 ng
RT: 15.870 min Scan# 1582
Delta R.T. 0.012 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

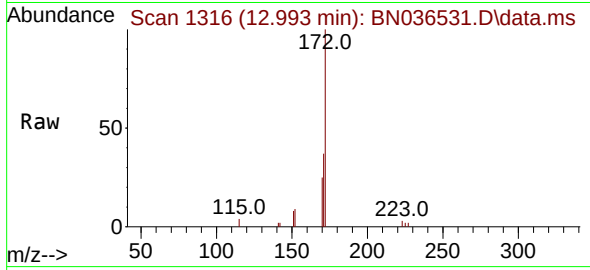
Tgt Ion:330 Resp: 407
Ion Ratio Lower Upper
330 100
332 98.3 76.6 114.8
141 48.4 37.8 56.8





#15
2-Fluorobiphenyl
Concen: 0.618 ng
RT: 12.993 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

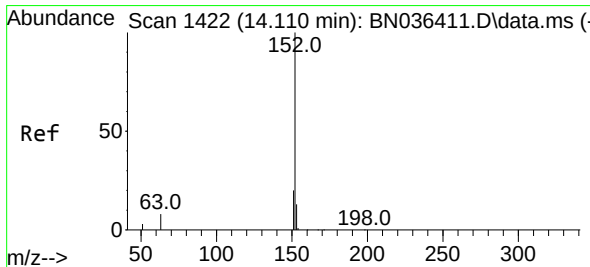
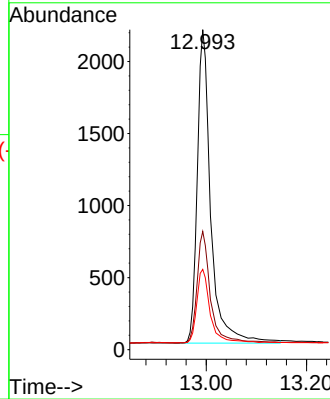
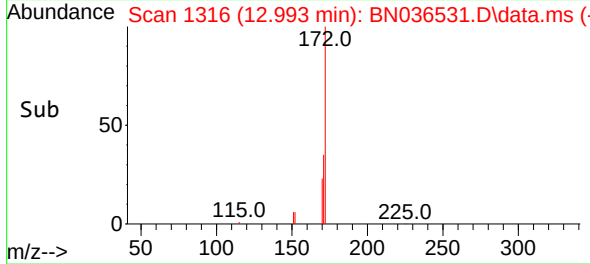
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



Tgt Ion:172 Resp: 563
Ion Ratio Lower Upper
172 100
171 36.9 29.6 44.4
170 25.1 19.8 29.6

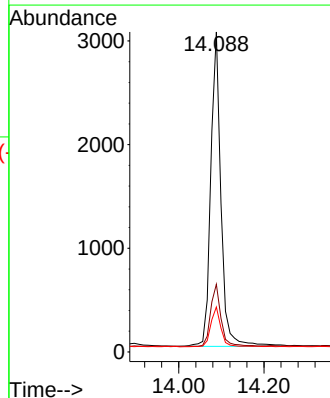
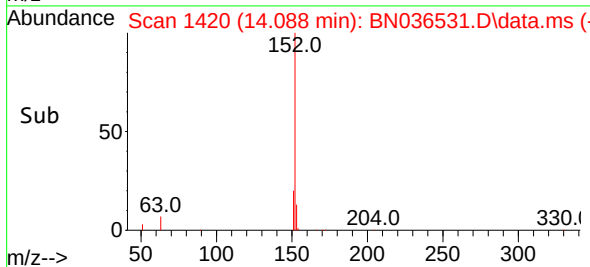
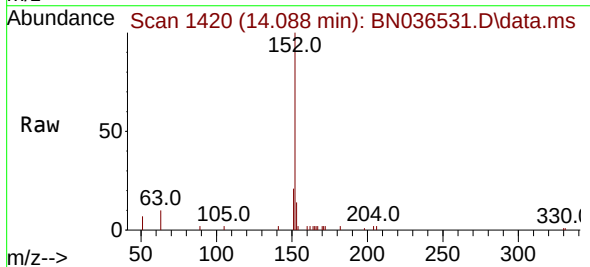
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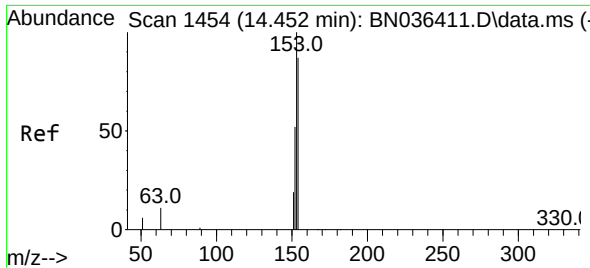
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#16
Acenaphthylene
Concen: 0.471 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

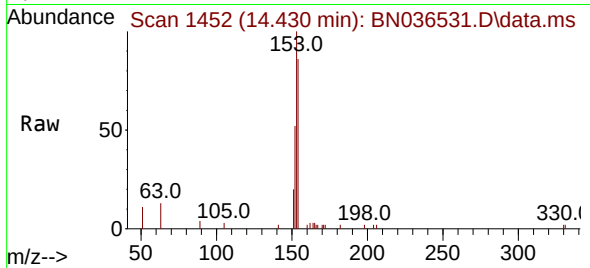
Tgt Ion:152 Resp: 5041
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.8
153 12.7 10.2 15.2





#17
Acenaphthene
Concen: 0.443 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

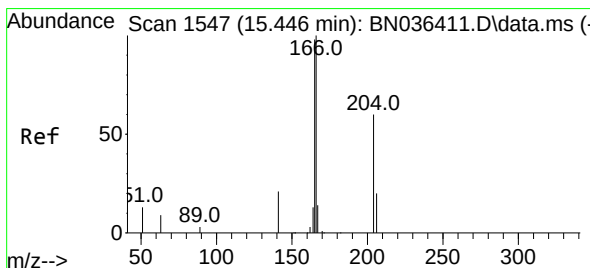
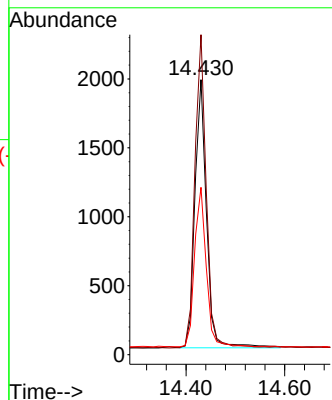
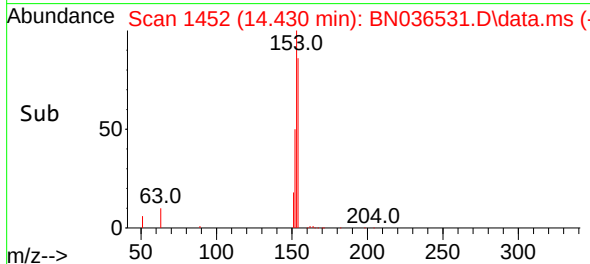
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



Tgt Ion:154 Resp: 316
Ion Ratio Lower Upper
154 100
153 115.1 93.3 139.9
152 59.6 48.8 73.2

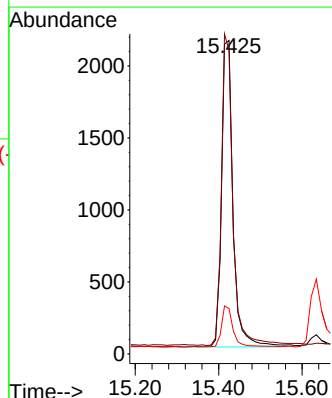
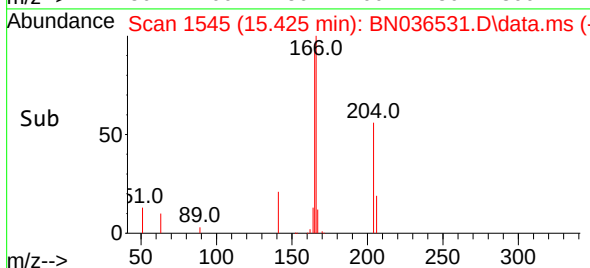
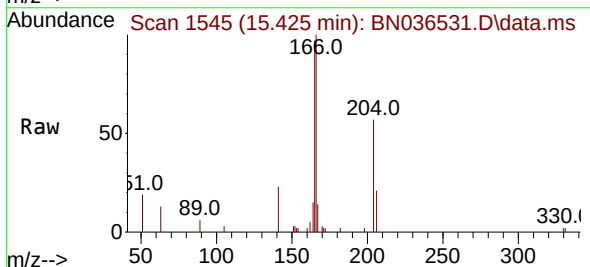
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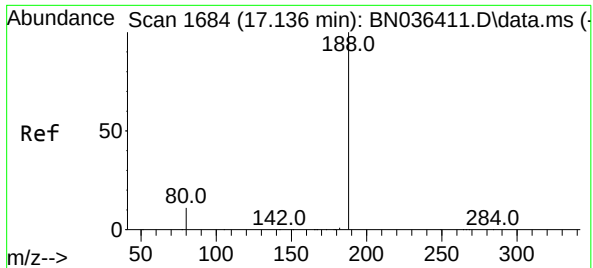
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#18
Fluorene
Concen: 0.404 ng
RT: 15.425 min Scan# 1545
Delta R.T. 0.011 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

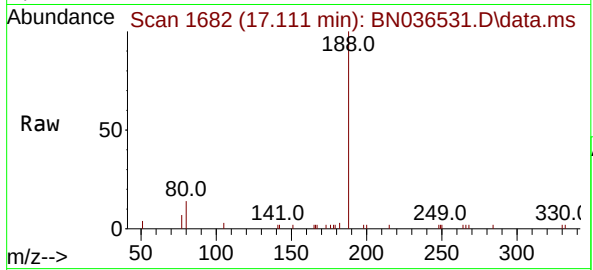
Tgt Ion:166 Resp: 4113
Ion Ratio Lower Upper
166 100
165 102.2 79.5 119.3
167 13.4 10.4 15.6





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

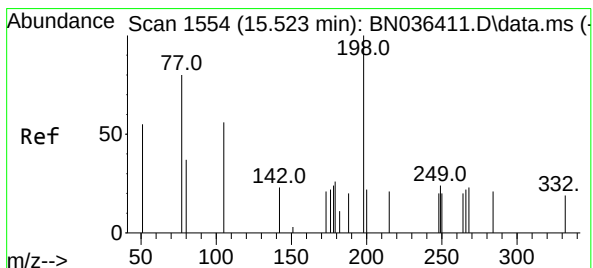
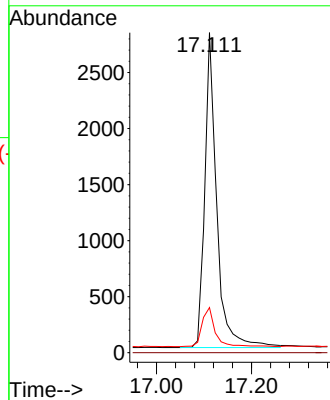
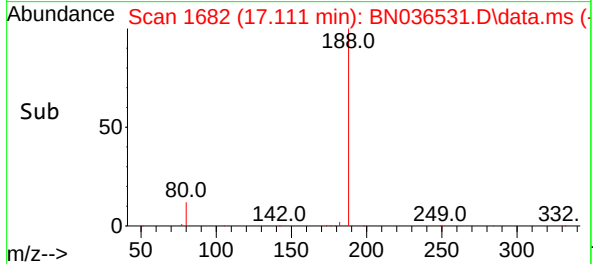
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



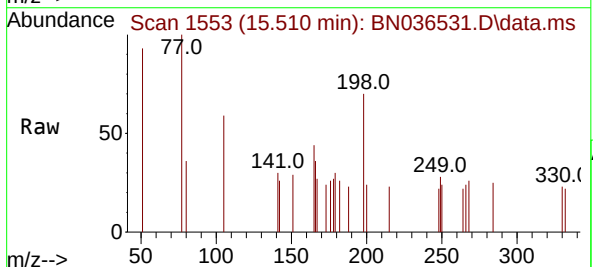
Tgt Ion:188 Resp: 4930
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.1 9.8 14.6

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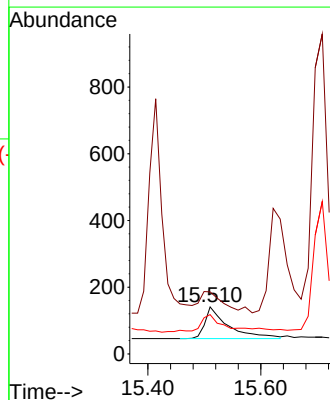
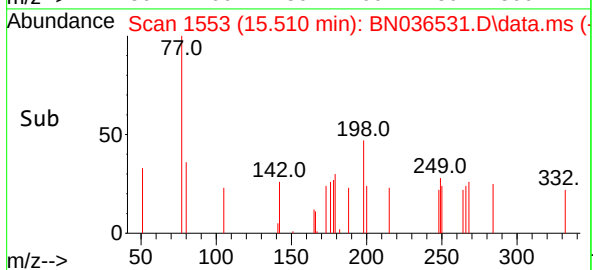
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

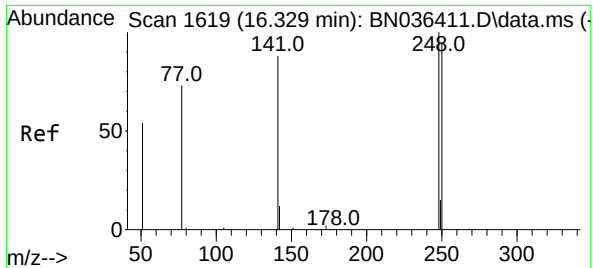


#20
4,6-Dinitro-2-methylphenol
Concen: 0.278 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18



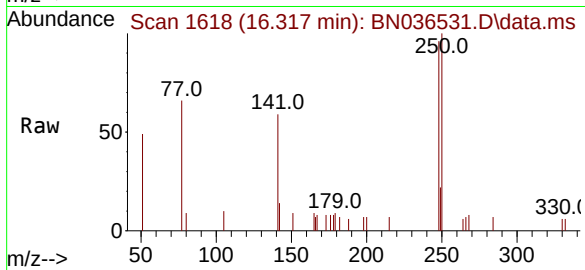
Tgt Ion:198 Resp: 269
Ion Ratio Lower Upper
198 100
51 131.9 86.6 129.8#
105 83.7 57.5 86.3





#21
4-Bromophenyl-phenylether
Concen: 0.419 ng
RT: 16.317 min Scan# 1618
Delta R.T. 0.012 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

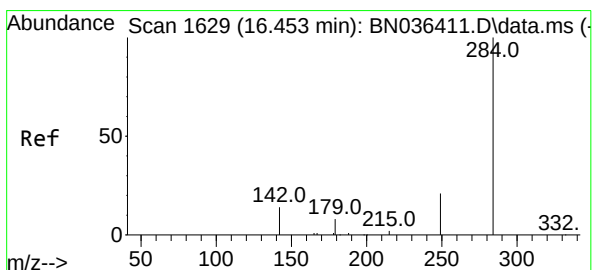
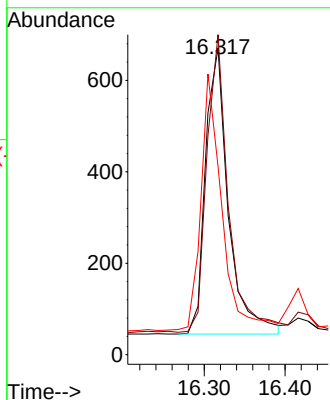
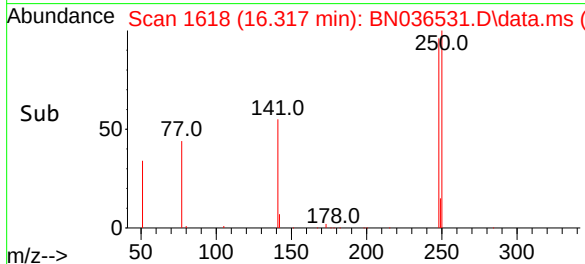
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



Tgt Ion:248 Resp: 123
Ion Ratio Lower Upper
248 100
250 104.3 76.1 114.1
141 61.4 71.7 107.5

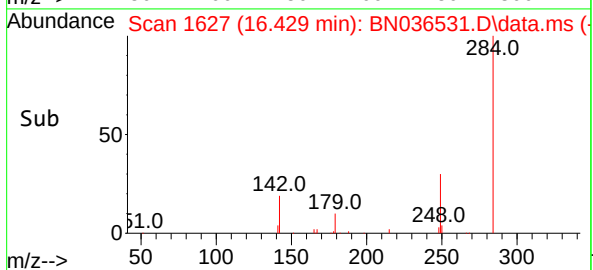
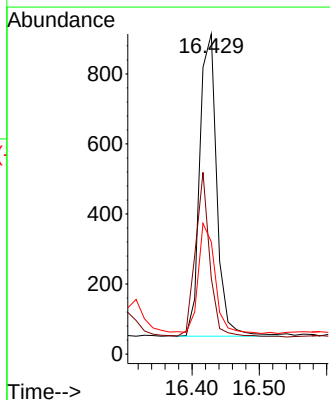
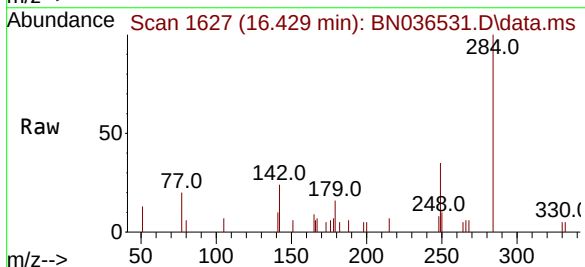
Manual Integrations
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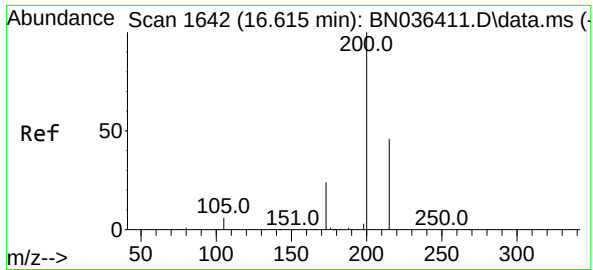
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#22
Hexachlorobenzene
Concen: 0.419 ng
RT: 16.429 min Scan# 1627
Delta R.T. 0.012 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion:284 Resp: 1525
Ion Ratio Lower Upper
284 100
142 46.0 33.4 50.0
249 35.9 28.6 43.0





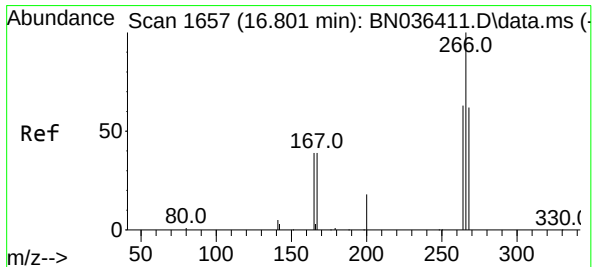
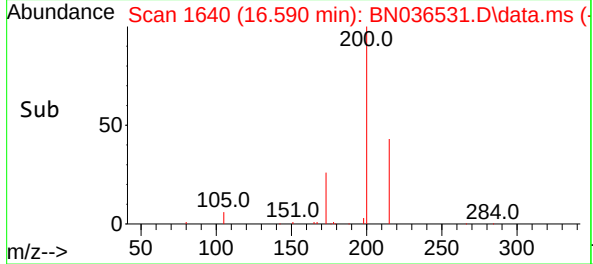
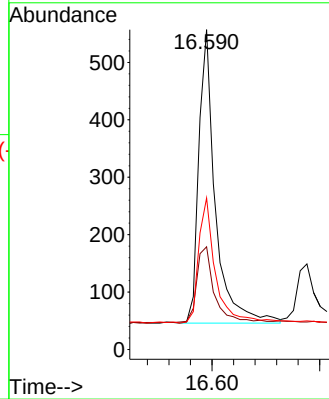
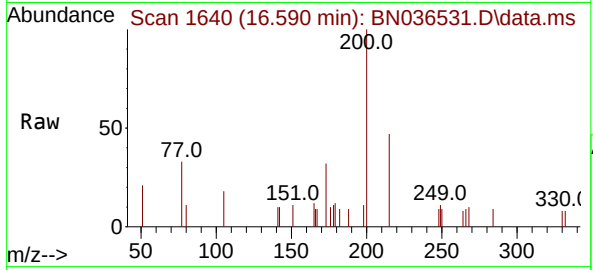
#23
Atrazine
Concen: 0.442 ng
RT: 16.590 min Scan# 1642
Delta R.T. 0.012 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Instrument :
BNA_N
ClientSampleId :
PB166992BSD

Tgt Ion:200 Resp: 108
Ion Ratio Lower Upper
200 100
173 32.1 23.2 34.8
215 47.4 40.0 60.0

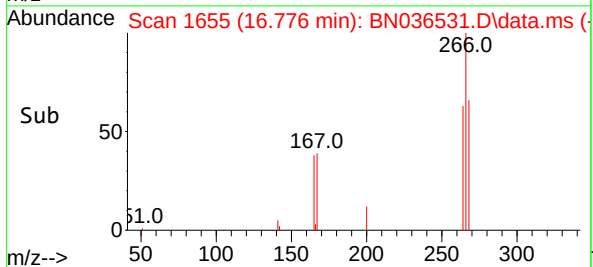
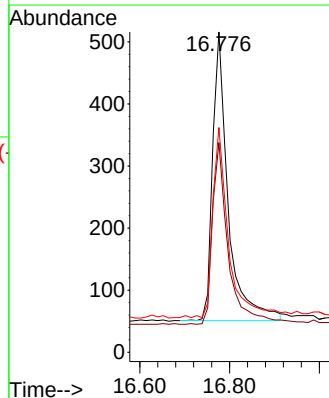
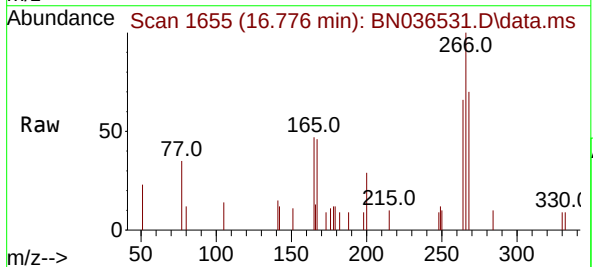
Manual Integrations
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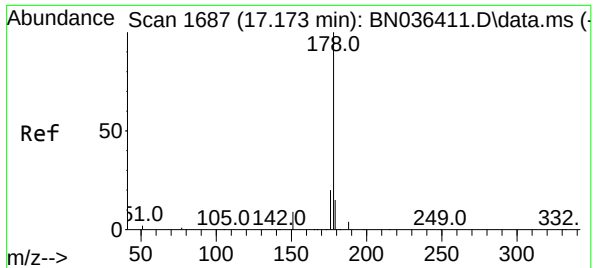
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#24
Pentachlorophenol
Concen: 0.645 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.012 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

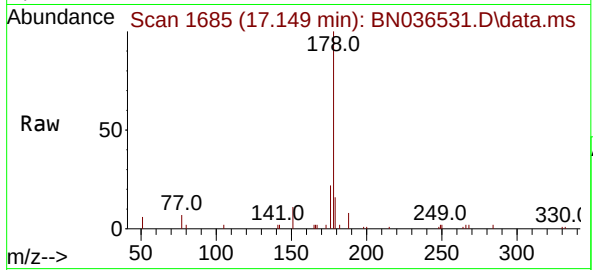
Tgt Ion:266 Resp: 1113
Ion Ratio Lower Upper
266 100
264 63.2 50.6 76.0
268 66.8 51.9 77.9





#25
Phenanthrene
Concen: 0.444 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

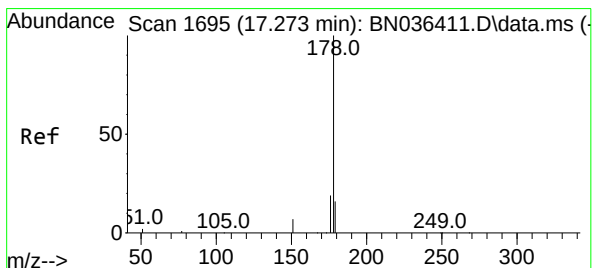
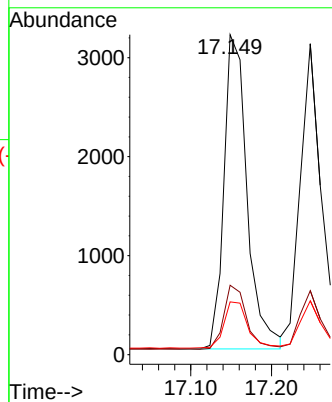
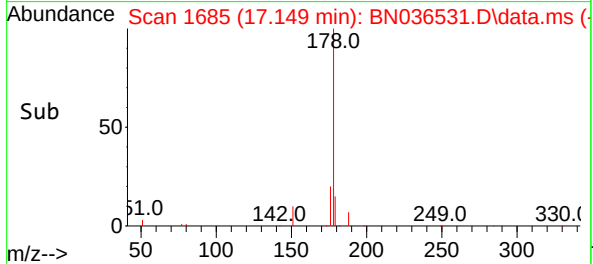
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



Tgt Ion:178 Resp: 6334
Ion Ratio Lower Upper
178 100
176 19.9 15.7 23.5
179 15.6 12.4 18.6

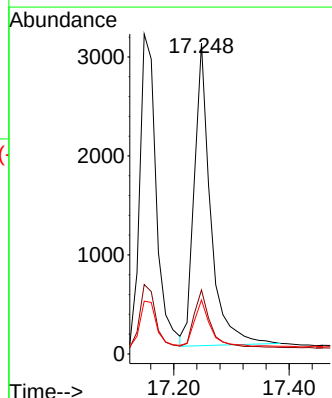
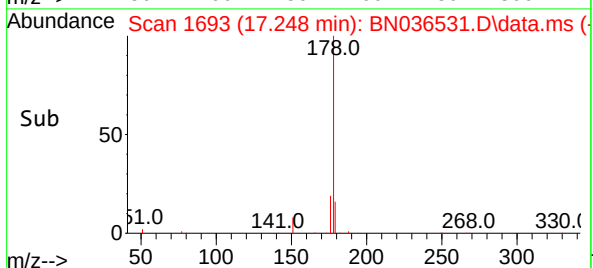
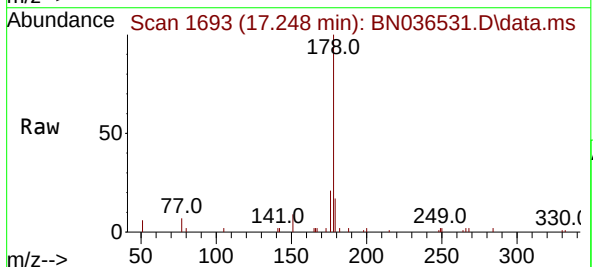
Manual Integrations
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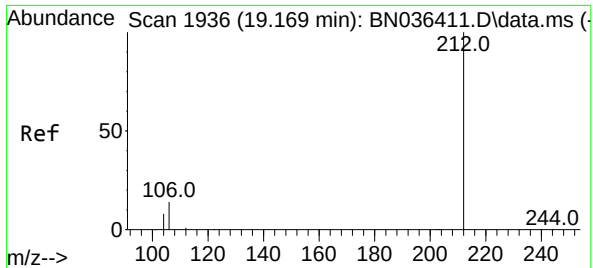
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#26
Anthracene
Concen: 0.477 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.012 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

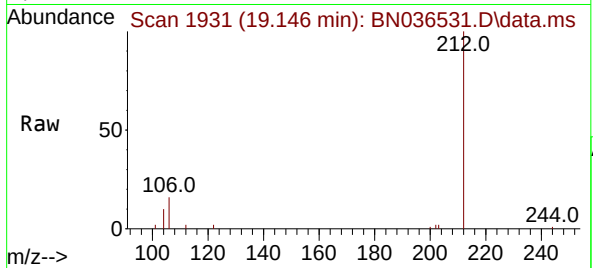
Tgt Ion:178 Resp: 6001
Ion Ratio Lower Upper
178 100
176 19.2 14.9 22.3
179 15.4 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 19.146 min Scan# 1931
Delta R.T. 0.005 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

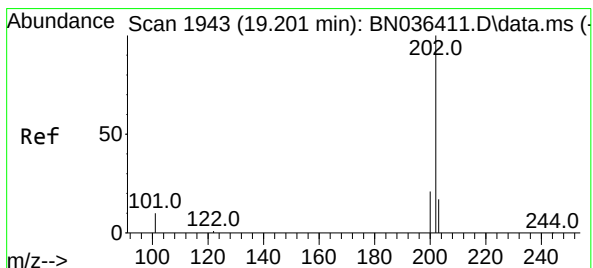
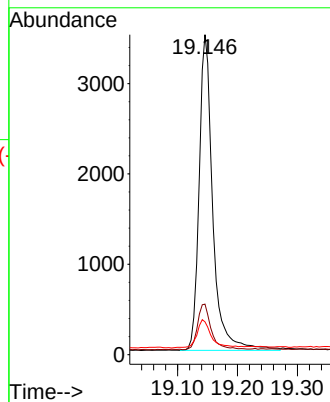
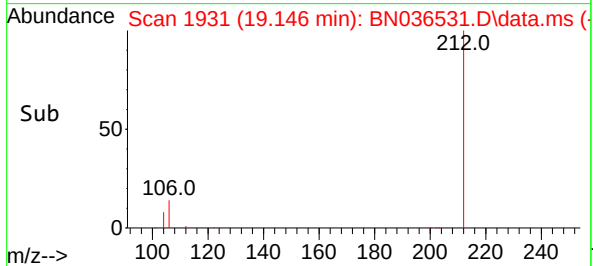
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



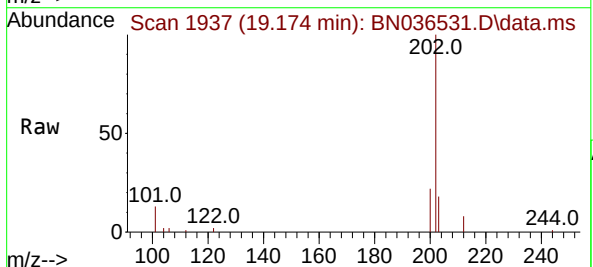
Tgt Ion:212 Resp: 5524
Ion Ratio Lower Upper
212 100
106 14.4 11.5 17.3
104 9.5 7.1 10.7

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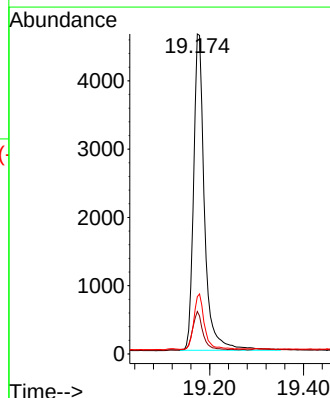
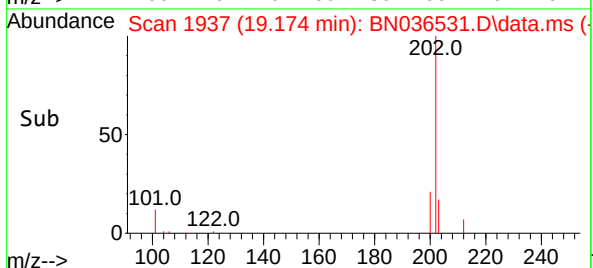
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

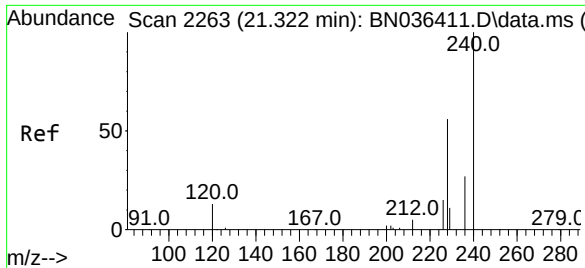


#28
Fluoranthene
Concen: 0.428 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18



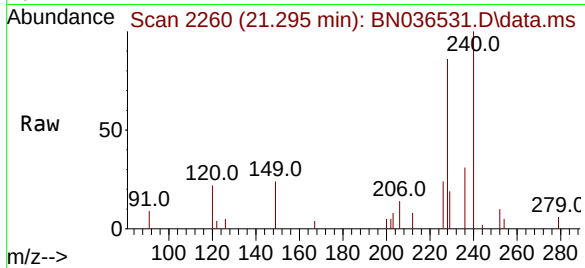
Tgt Ion:202 Resp: 7495
Ion Ratio Lower Upper
202 100
101 11.6 9.2 13.8
203 17.3 13.4 20.0





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

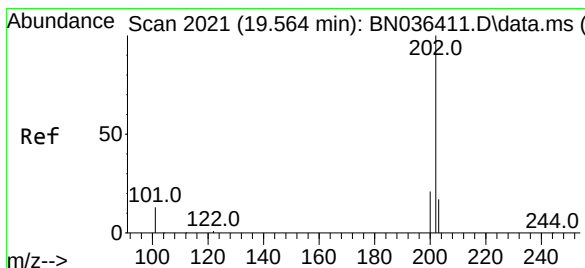
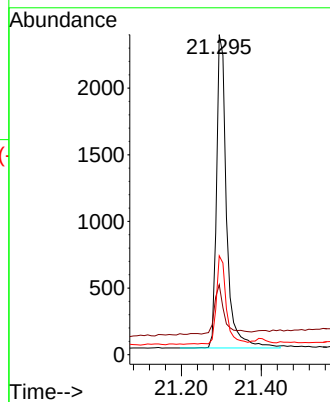
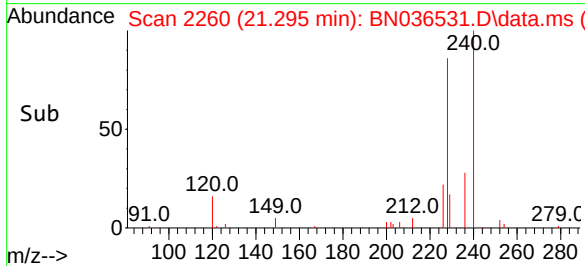
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



Tgt Ion:240 Resp: 410
Ion Ratio Lower Upper
240 100
120 21.9 13.3 19.9
236 30.9 23.0 34.6

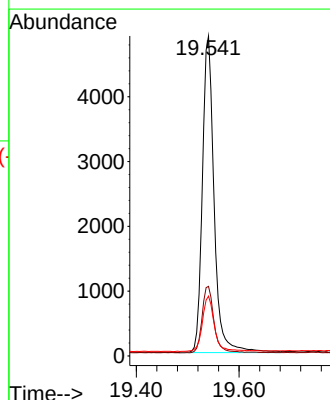
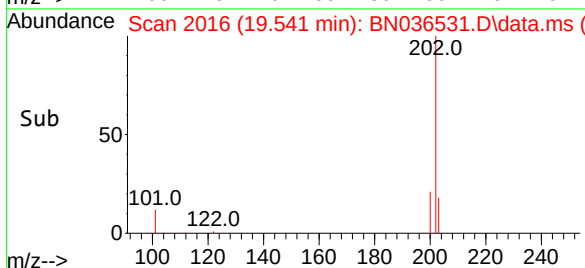
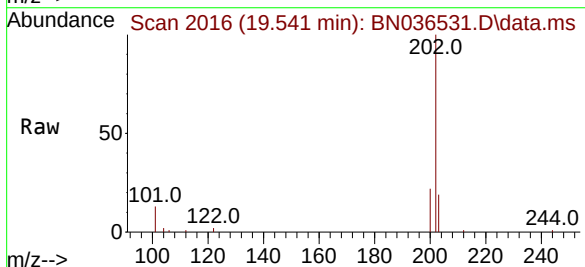
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APPROVED

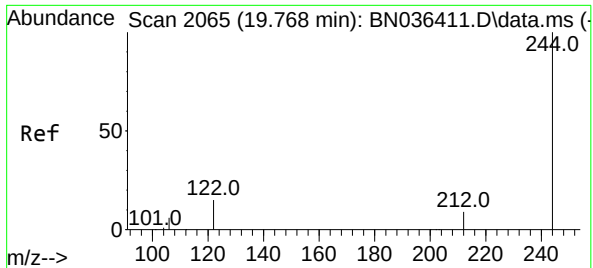
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#30
Pyrene
Concen: 0.491 ng
RT: 19.541 min Scan# 2016
Delta R.T. 0.005 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

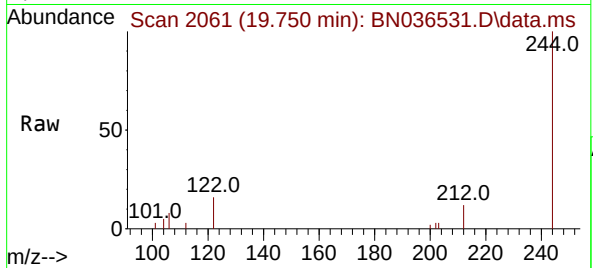
Tgt Ion:202 Resp: 7760
Ion Ratio Lower Upper
202 100
200 21.2 16.9 25.3
203 17.9 13.9 20.9





#31
Terphenyl-d14
Concen: 0.462 ng
RT: 19.750 min Scan# 2061
Delta R.T. 0.005 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

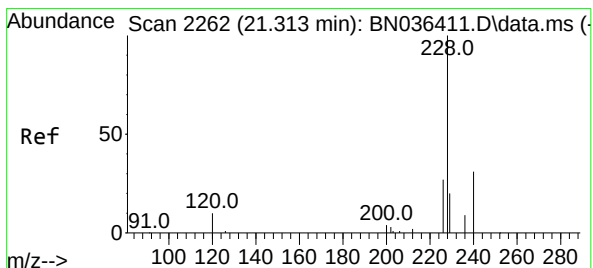
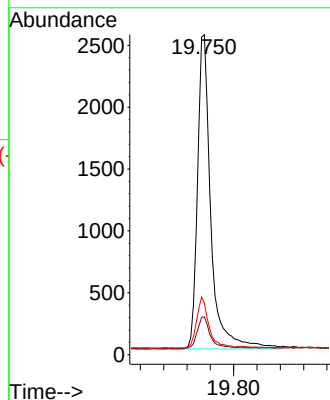
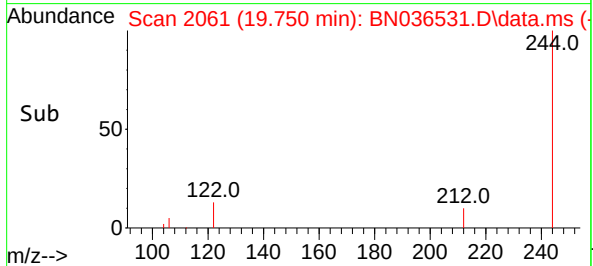
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



Tgt Ion:244 Resp: 404
Ion Ratio Lower Upper
244 100
212 11.8 8.1 12.1
122 16.1 12.8 19.2

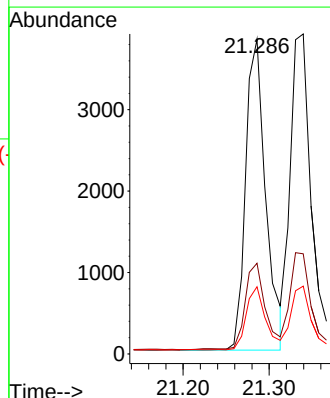
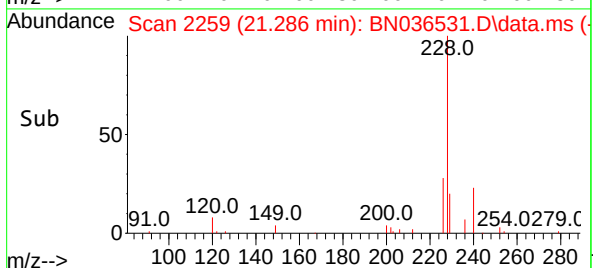
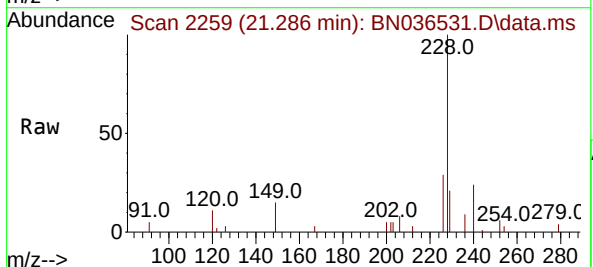
Manual Integrations
APPROVED

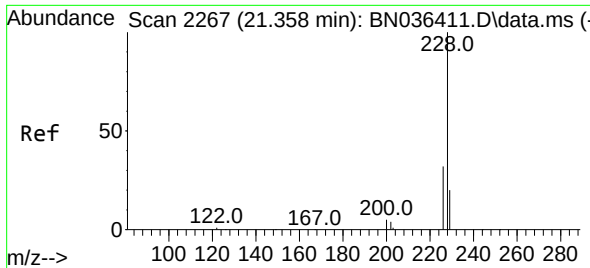
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#32
Benzo(a)anthracene
Concen: 0.459 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.009 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

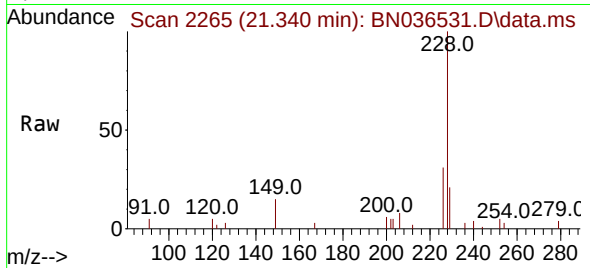
Tgt Ion:228 Resp: 6200
Ion Ratio Lower Upper
228 100
226 28.8 22.2 33.2
229 21.3 16.5 24.7





#33
Chrysene
Concen: 0.471 ng
RT: 21.340 min Scan# 21340
Delta R.T. 0.009 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

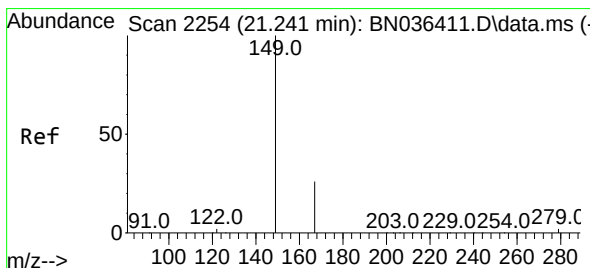
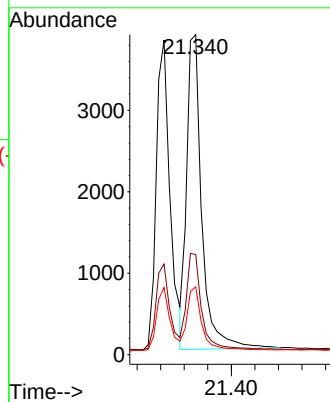
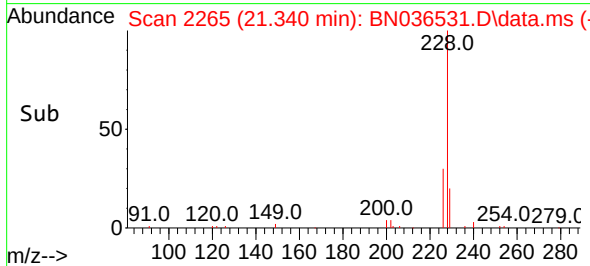
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



Tgt Ion:228 Resp: 688
Ion Ratio Lower Upper
228 100
226 31.3 25.5 38.3
229 21.2 16.4 24.6

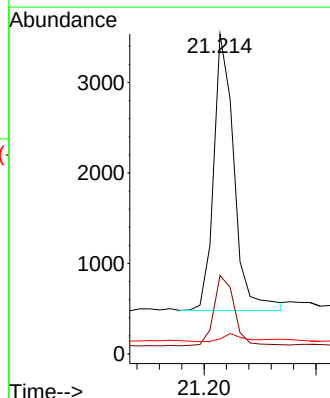
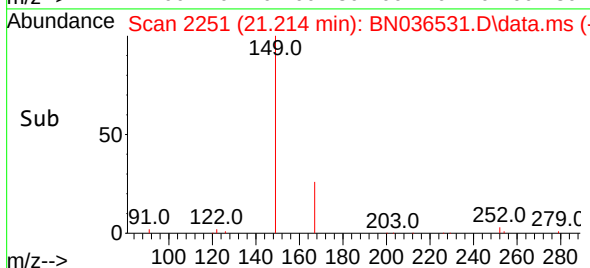
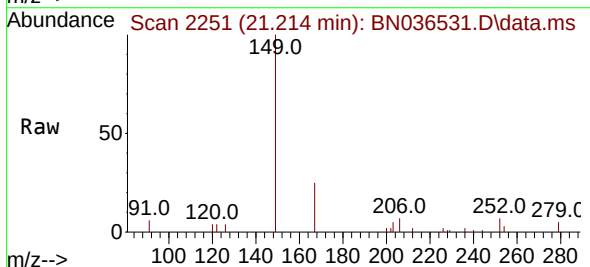
Manual Integrations
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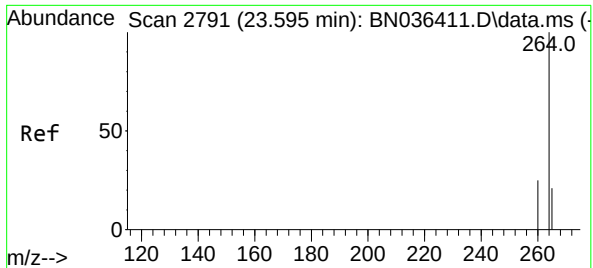
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.458 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

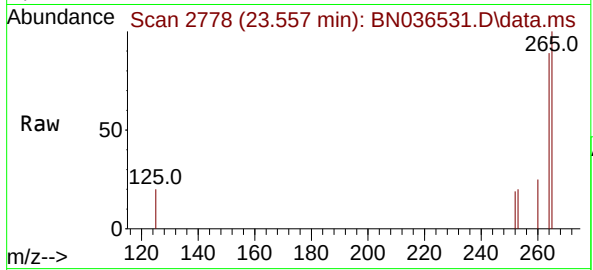
Tgt Ion:149 Resp: 3851
Ion Ratio Lower Upper
149 100
167 25.8 21.2 31.8
279 2.9 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.557 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

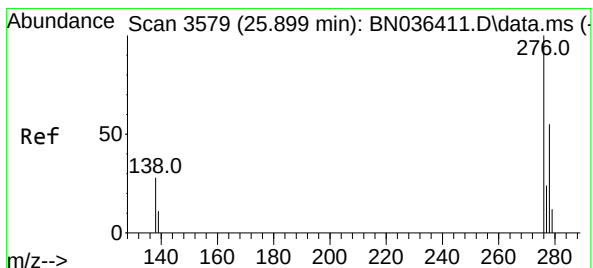
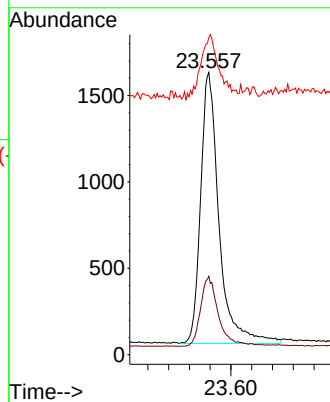
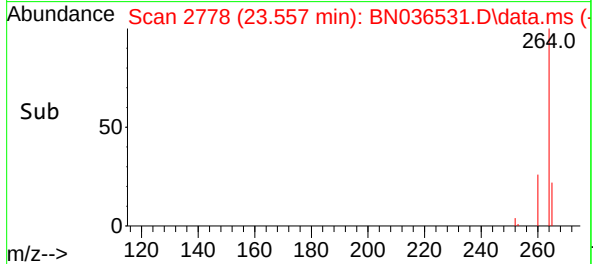
Instrument :
BNA_N
ClientSampleId :
PB166992BSD



Tgt Ion:264 Resp: 385
Ion Ratio Lower Upper
264 100
260 27.7 20.9 31.3
265 112.4 60.7 91.1

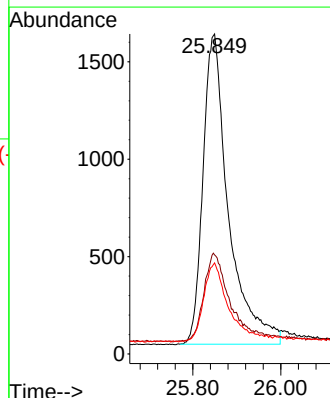
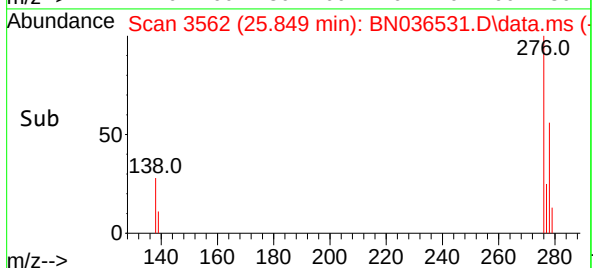
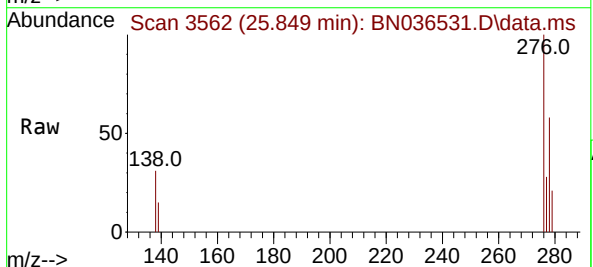
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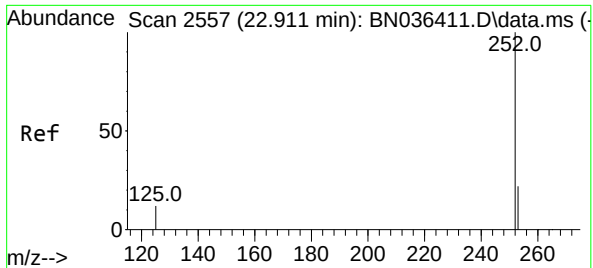
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.477 ng
RT: 25.849 min Scan# 3562
Delta R.T. 0.012 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion:276 Resp: 6430
Ion Ratio Lower Upper
276 100
138 28.3 22.2 33.2
277 24.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.440 ng

RT: 22.876 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036531.D

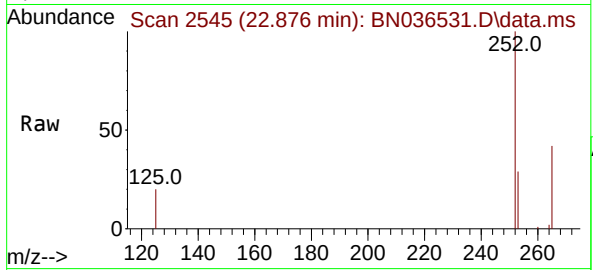
Acq: 05 Mar 2025 19:18

Instrument :

BNA_N

ClientSampleId :

PB166992BSD



Tgt Ion:252 Resp: 558

Ion Ratio Lower Upper

252 100

253 29.1 21.9 32.9

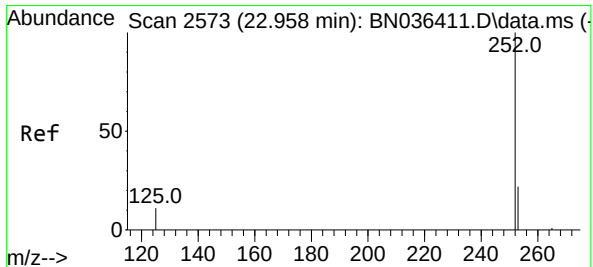
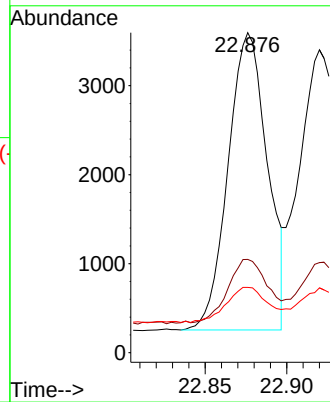
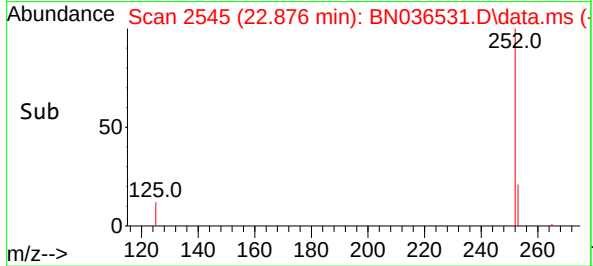
125 20.4 15.0 22.6

Manual Integrations

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Reviewed By :Anahy Claudio 03/06/2025

Supervised By :Jagrut Upadhyay 03/06/2025



#38

Benzo(k)fluoranthene

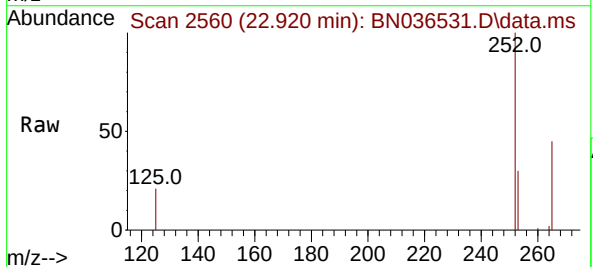
Concen: 0.499 ng m

RT: 22.920 min Scan# 2560

Delta R.T. 0.003 min

Lab File: BN036531.D

Acq: 05 Mar 2025 19:18



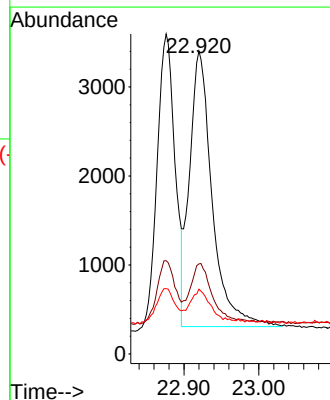
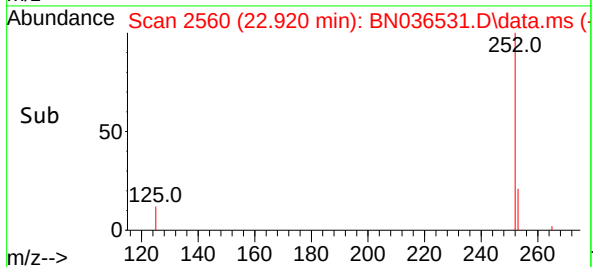
Tgt Ion:252 Resp: 6525

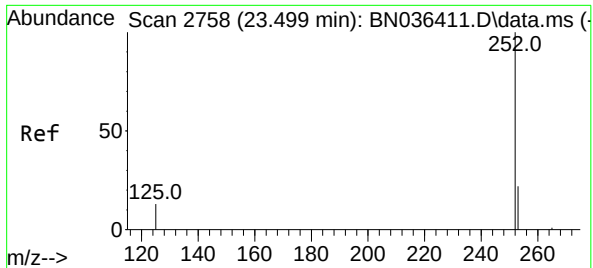
Ion Ratio Lower Upper

252 100

253 29.8 22.2 33.4

125 21.4 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.487 ng

RT: 23.461 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN036531.D

Acq: 05 Mar 2025 19:18

Instrument :

BNA_N

ClientSampleId :

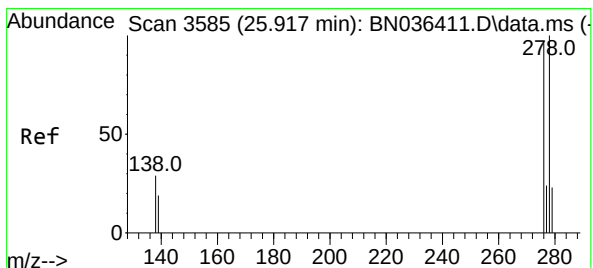
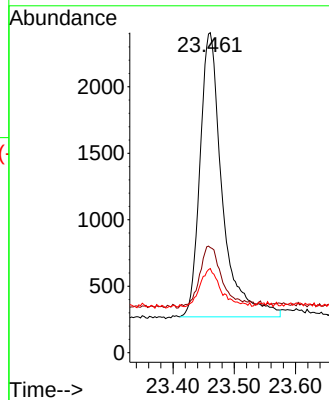
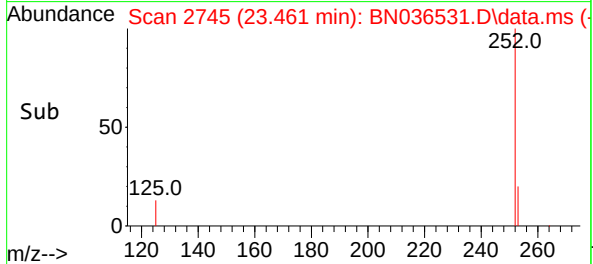
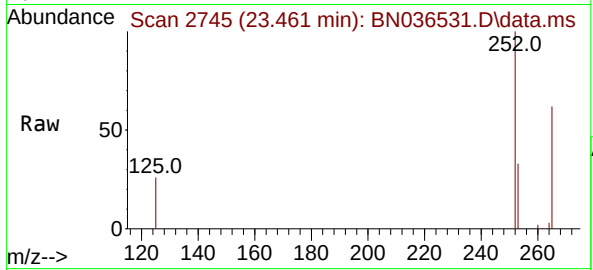
PB166992BSD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	32.9	24.4	36.6
125	26.3	18.2	27.2

Manual Integrations

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Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.449 ng

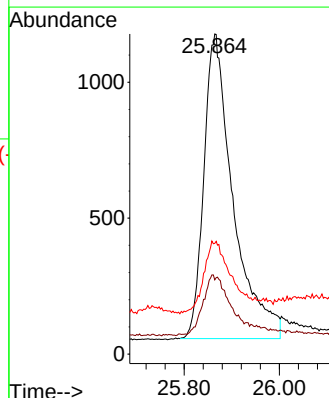
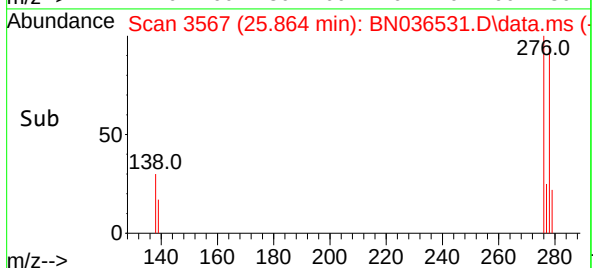
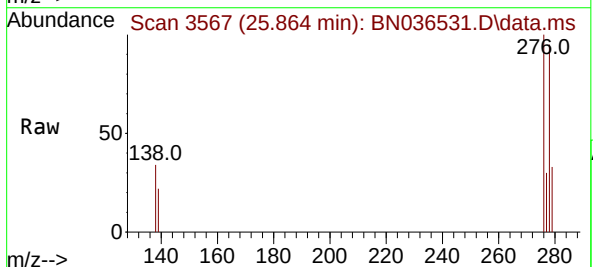
RT: 25.864 min Scan# 3567

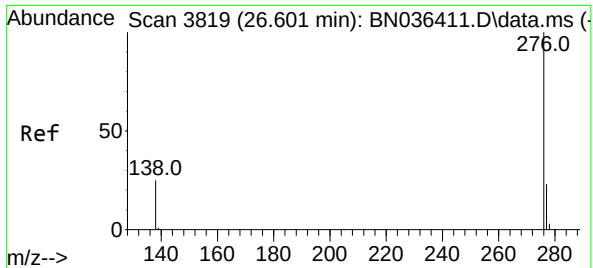
Delta R.T. 0.012 min

Lab File: BN036531.D

Acq: 05 Mar 2025 19:18

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.2	18.5	27.7
279	34.6	24.8	37.2





#41

Benzo(g,h,i)perylene

Concen: 0.443 ng

RT: 26.542 min Scan# 31

Delta R.T. 0.015 min

Lab File: BN036531.D

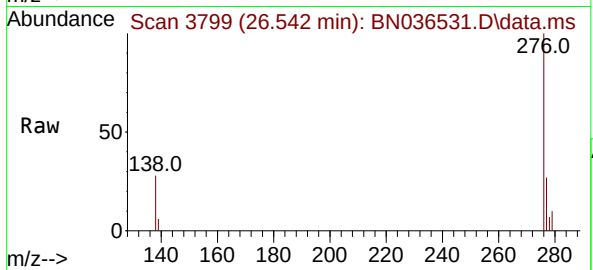
Acq: 05 Mar 2025 19:18

Instrument :

BNA_N

ClientSampleId :

PB166992BSD



Tgt Ion:276 Resp: 5348

Ion Ratio Lower Upper

276 100

277 27.3 20.7 31.1

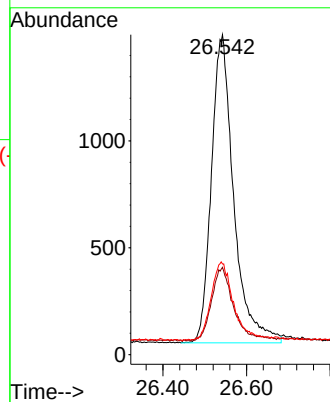
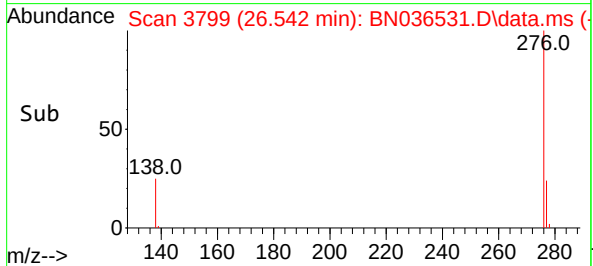
138 28.3 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/06/2025

Supervised By :Jagrut Upadhyay 03/06/2025





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

Manual Integration Report

Sequence:

BN021025

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

BN030525

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN036524.D	Benzo(b)fluoranthene	anahy	3/6/2025 3:08:02 PM	Jagrut	3/6/2025 5:45:12 PM	Peak Integrated by Software
Q1477-03	BN036528.D	Benzo(k)fluoranthene	anahy	3/6/2025 3:10:21 PM	Jagrut	3/6/2025 5:45:15 PM	Peak Integrated by Software
Q1477-03	BN036528.D	Dibenzo(a,h)anthracene	anahy	3/6/2025 3:10:21 PM	Jagrut	3/6/2025 5:45:15 PM	Peak Integrated by Software
Q1477-04	BN036529.D	Phenanthrene	anahy	3/6/2025 3:13:47 PM	Jagrut	3/6/2025 5:45:20 PM	Peak Integrated by Software
PB166992BS	BN036530.D	Benzo(k)fluoranthene	anahy	3/6/2025 3:15:47 PM	Jagrut	3/6/2025 5:45:24 PM	Peak Integrated by Software
PB166992BSD	BN036531.D	Benzo(k)fluoranthene	anahy	3/6/2025 3:16:28 PM	Jagrut	3/6/2025 5:45:30 PM	Peak Integrated by Software
SSTDCCC0.4	BN036532.D	Benzo(b)fluoranthene	anahy	3/6/2025 3:17:24 PM	Jagrut	3/6/2025 5:45:32 PM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN021025

Review By	Rahul	Review On	2/11/2025 4:21:36 PM
Supervise By	Jagrut	Supervise On	2/11/2025 6:22:45 PM
SubDirectory	BN021025	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn021025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6682,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036408.D	10 Feb 2025 11:46	RC/JU	Ok
2	SSTDICC0.1	BN036409.D	10 Feb 2025 12:25	RC/JU	Ok
3	SSTDICC0.2	BN036410.D	10 Feb 2025 13:01	RC/JU	Ok
4	SSTDICCC0.4	BN036411.D	10 Feb 2025 13:36	RC/JU	Ok
5	SSTDICC0.8	BN036412.D	10 Feb 2025 14:12	RC/JU	Ok
6	SSTDICC1.6	BN036413.D	10 Feb 2025 14:48	RC/JU	Ok
7	SSTDICC3.2	BN036414.D	10 Feb 2025 15:24	RC/JU	Ok
8	SSTDICC5.0	BN036415.D	10 Feb 2025 16:00	RC/JU	Ok
9	SSTDICV0.4	BN036416.D	10 Feb 2025 16:36	RC/JU	Ok
10	PB166297BL	BN036417.D	10 Feb 2025 17:48	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN030525

Review By	anahy	Review On	3/6/2025 3:17:53 PM
Supervise By	Jagrut	Supervise On	3/6/2025 5:45:59 PM
SubDirectory	BN030525	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn021025
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	BN036523.D	05 Mar 2025 12:52	RC/JU	Ok
2	SSTDCCC0.4	BN036524.D	05 Mar 2025 13:31	RC/JU	Ok,M
3	PB166992BL	BN036525.D	05 Mar 2025 15:42	RC/JU	Ok
4	Q1477-01	BN036526.D	05 Mar 2025 16:18	RC/JU	Ok
5	Q1477-02	BN036527.D	05 Mar 2025 16:54	RC/JU	Ok
6	Q1477-03	BN036528.D	05 Mar 2025 17:30	RC/JU	Ok,M
7	Q1477-04	BN036529.D	05 Mar 2025 18:07	RC/JU	Ok,M
8	PB166992BS	BN036530.D	05 Mar 2025 18:43	RC/JU	Ok,M
9	PB166992BSD	BN036531.D	05 Mar 2025 19:18	RC/JU	Ok,M
10	SSTDCCC0.4	BN036532.D	05 Mar 2025 19:55	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN021025

Review By	Rahul	Review On	2/11/2025 4:21:36 PM
Supervise By	Jagrut	Supervise On	2/11/2025 6:22:45 PM
SubDirectory	BN021025	HP Acquire Method	BNA_N, 8270_HP Processing Method bn021025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6682,1ul/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	BN036408.D	10 Feb 2025 11:46		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036409.D	10 Feb 2025 12:25		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN036410.D	10 Feb 2025 13:01		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN036411.D	10 Feb 2025 13:36	The Calibration is Good For DOD	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036412.D	10 Feb 2025 14:12		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036413.D	10 Feb 2025 14:48		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036414.D	10 Feb 2025 15:24		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036415.D	10 Feb 2025 16:00	Compound #20 removed from 5.0ppm	RC/JU	Ok
9	SSTDICV0.4	ICVBN021025	BN036416.D	10 Feb 2025 16:36		RC/JU	Ok
10	PB166297BL	PB166297BL	BN036417.D	10 Feb 2025 17:48	Analyzed for contamination check	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN030525

Review By	anahy	Review On	3/6/2025 3:17:53 PM
Supervise By	Jagrut	Supervise On	3/6/2025 5:45:59 PM
SubDirectory	BN030525	HP Acquire Method	BNA_N, 8270_HP Processing Method bn021025

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	BN036523.D	05 Mar 2025 12:52		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036524.D	05 Mar 2025 13:31		RC/JU	Ok,M
3	PB166992BL	PB166992BL	BN036525.D	05 Mar 2025 15:42		RC/JU	Ok
4	Q1477-01	RW7-SP100-20250228	BN036526.D	05 Mar 2025 16:18		RC/JU	Ok
5	Q1477-02	RW7-SP201-20250228	BN036527.D	05 Mar 2025 16:54		RC/JU	Ok
6	Q1477-03	RW7-SP302-20250228	BN036528.D	05 Mar 2025 17:30		RC/JU	Ok,M
7	Q1477-04	RW7-SP303-20250228	BN036529.D	05 Mar 2025 18:07		RC/JU	Ok,M
8	PB166992BS	PB166992BS	BN036530.D	05 Mar 2025 18:43		RC/JU	Ok,M
9	PB166992BSD	PB166992BSD	BN036531.D	05 Mar 2025 19:18		RC/JU	Ok,M
10	SSTDCCC0.4	SSTDCCC0.4EC	BN036532.D	05 Mar 2025 19:55		RC/JU	Ok,M

M : Manual Integration

SOP ID:	M3510C,3580A-Extraction SVOC-20		
Clean Up SOP #:	N/A	Extraction Start Date :	03/05/2025
Matrix :	Water	Extraction Start Time :	09:15
Weigh By:	N/A	Extraction By:	RS
Balance check:	N/A	Filter By:	RS
Balance ID:	N/A	pH Meter ID:	N/A
pH Strip Lot#:	E3880	Hood ID:	4,6,7
Extraction Method:	☒ Separatory Funnel	☐ Continuous Liquid/Liquid	☐ Sonication
		☐ Waste Dilution	☐ Soxhlet
		Extraction End Date :	03/05/2025
		Extraction End Time :	14:15
		Concentration By:	EH
		Supervisor By :	RUPESH

Standardized 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	SP6718
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	E3878
Baked Na2SO4	N/A	EP2589
10N NaOH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID:	Water bath -01,02	Envap ID:	NEVAP-02
KD Bath Temperature:	60 °C	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/5/25	RS (Ext. Lab)	RL/SVOC
14:20	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/05/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166992BL	SBLK992	SVOC-SIMGrou p1	1000	N/A	RUPESH	ritesh	1			U-1
PB166992BS	SLCS992	SVOC-SIMGrou p1	1000	N/A	RUPESH	ritesh	1			2
PB166992BSD	SLCSD992	SVOC-SIMGrou p1	1000	N/A	RUPESH	ritesh	1			3
Q1477-01	RW7-SP100-20250228	SVOC-SIMGrou p1	820	N/A	RUPESH	ritesh	1	A		4
Q1477-02	RW7-SP201-20250228	SVOC-SIMGrou p1	1000	N/A	RUPESH	ritesh	1			5
Q1477-03	RW7-SP302-20250228	SVOC-SIMGrou p1	1000	N/A	RUPESH	ritesh	1			6
Q1477-04	RW7-SP303-20250228	SVOC-SIMGrou p1	830	N/A	RUPESH	ritesh	1	A		7

16942
9-15

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1477 WorkList ID : 188043 Department : Extraction Date : 03-05-2025 08:36:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1477-01	RW7-SP100-20250228	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H41	02/28/2025	8270-Modified
Q1477-02	RW7-SP201-20250228	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H41	02/28/2025	8270-Modified
Q1477-03	RW7-SP302-20250228	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H41	02/28/2025	8270-Modified
Q1477-04	RW7-SP303-20250228	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H41	02/28/2025	8270-Modified

Date/Time 3/5/25 9:10
Raw Sample Received by: RS (Ext-606)
Raw Sample Relinquished by: SPW en

Date/Time 3/5/25 9:45
Raw Sample Received by: RS
Raw Sample Relinquished by: RS (Ext-606)

Prep Standard - Chemical Standard Summary

Order ID : Q1477

Test : SVOC-SIMGroup1

Prepbatch ID : PB166992,

Sequence ID/Qc Batch ID: BN030525,

Standard ID :

EP2559,EP2565,EP2589,SP6682,SP6683,SP6684,SP6717,SP6718,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,

Chemical ID :

1ul/100ul

sample,E3551,E3657,E3828,E3846,E3871,E3873,E3874,E3878,M5173,S10104,S10246,S11074,S11495,S11650,S11785,S11831,S11832,S12114,S12142,S12189,S12208,S12270,S12328,S12469,S12478,S12517,S12525,S12651,S12791,S12966,W3112,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	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
<u>FROM</u> 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2589	02/14/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 02/14/2025
<u>FROM</u> 4000.00000gram of E3551 = Final Quantity: 4000.000 gram								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel
<u>FROM</u> 0.10000ml of S12328 + 4.90000ml of E3828 = 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>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE 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								
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 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 DFTPP 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>
3491	8270-SIM-Surrogate 0.4 PPM	SP6718	01/17/2025	04/10/2025	Rahul Chavli	None	None	Shreena Patel
								02/07/2025

FROM 0.00400ml of S12189 + 0.00800ml of S12208 + 0.02000ml of S11831 + 99.96800ml of E3846 = 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>
3339	8270 sim calibration stock 10ppm (CPI)	SP6730	02/04/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.03350ml of S10104 + 0.05000ml of S11495 + 0.12500ml of S11832 + 0.12500ml of S12114 + 0.25000ml of S12270 + 0.25000ml of S12791 + 24.16650ml of E3874 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6731	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6730 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6732	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.68000ml of E3874 + 0.01000ml of SP6682 + 0.32000ml of SP6730 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6733	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.84000ml of E3874 + 0.01000ml of SP6682 + 0.16000ml of SP6730 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6734	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.92000ml of E3874 + 0.01000ml of SP6682 + 0.08000ml of SP6730 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6735	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.96000ml of E3874 + 0.01000ml of SP6682 + 0.04000ml of SP6730 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6736	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6735 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6738	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.75000ml of E3874 + 0.01000ml of SP6682 + 0.25000ml of SP6735 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6739	02/05/2025	07/29/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.00080ml of S11650 + 0.01000ml of S11785 + 0.02000ml of S12478 + 0.02000ml of S12525 + 0.02000ml of S12966 + 49.92920ml of E3873 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel 02/28/2025

FROM 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 ml

CHEMICAL RECEIPT LOG BOOK

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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

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

CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

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	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 #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, 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]

CHEMICAL RECEIPT LOG BOOK

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	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 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, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Erica Castiglione

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



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received on
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 Gravimetric +/- 45.7132 µg/mL Unstressed +/- 66.0037 µg/mL Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL Gravimetric +/- 45.8508 µg/mL Unstressed +/- 66.2023 µg/mL Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL Gravimetric +/- 45.9318 µg/mL Unstressed +/- 66.3193 µg/mL Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL Gravimetric +/- 45.8954 µg/mL Unstressed +/- 66.2667 µg/mL 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:

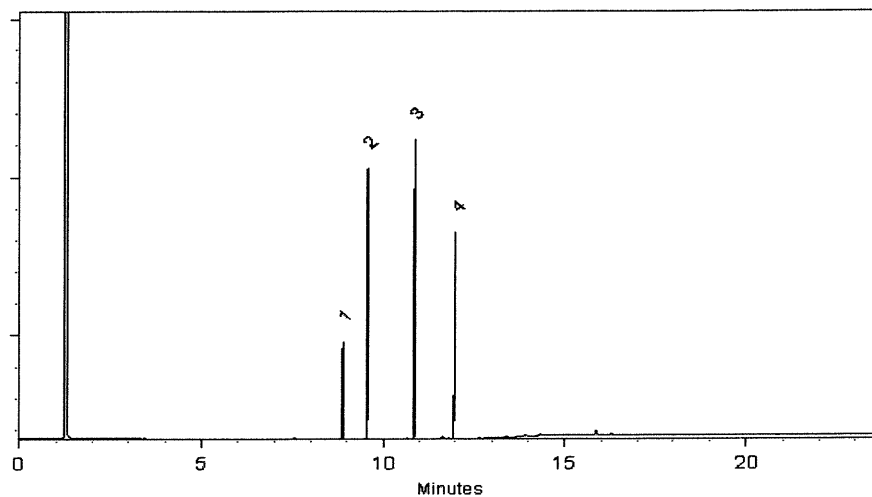
250°C

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



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received on
02/08/23

b1

CG

S 11071

to

S 11075

Catalog No. : 31853

Lot No.: A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2027

Storage: 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride

CAS # 75-09-2

Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

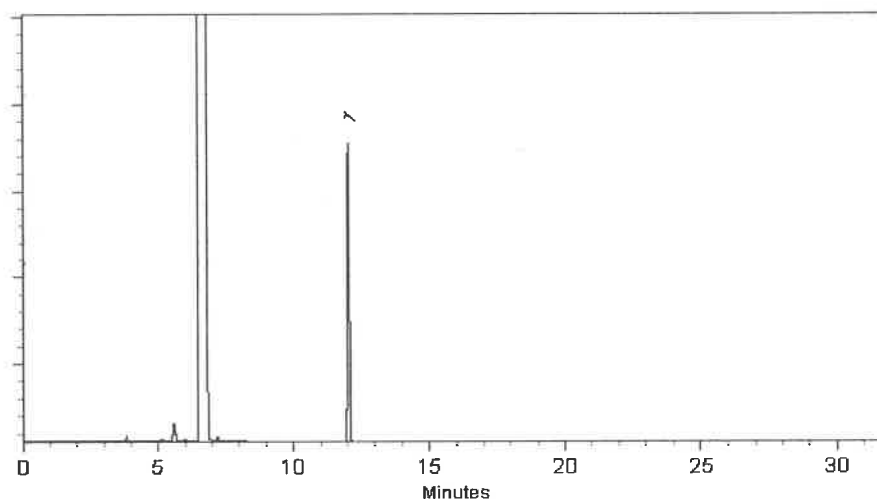
200°C

Det. Temp:

250°C

Det. Type:

FID



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

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

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



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

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

CERTIFICATE OF ANALYSIS

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

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

COMMENTS

QC: PhC Irma Belmares

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

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

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

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

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

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

Storage: Room Temperature

Pellets

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

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

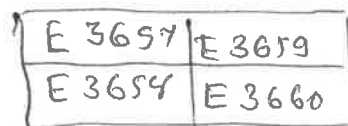
This document has been electronically produced and is valid without a signature.

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

Additional Information

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

Product meets analytical specifications of the grades listed.



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

avantor™



Material No.: 9266-A4

Batch No.: 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

Avantor Performance Materials LLC

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 **avantors™**



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

Rec'd by RP On 12/13/24

E 3846



Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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

12/27/24

 **avantors**



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 Heptachlor Epoxide) 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

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

Avantor Performance Materials LLC

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



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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_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

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



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	$\leq 1.0 \text{ ppm}$	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	$\leq 10 \text{ ppm}$	$< 5 \text{ ppm}$
Water (by KF, coulometric)	$\leq 0.02 \%$	0.01 %

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

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

E 3878

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



5580 Skyline Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄		2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5		4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

Certified By: _____
Clint Tipton
Chemist

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



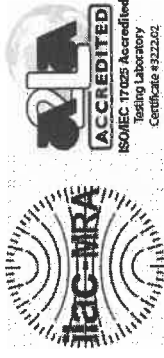
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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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

511649
↓
511658
Y.P.
11/13/23

CERTIFIED VALUES

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

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

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 **Balance:** B251644995

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Bellefonte, PA 16823-8812
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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. : 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:

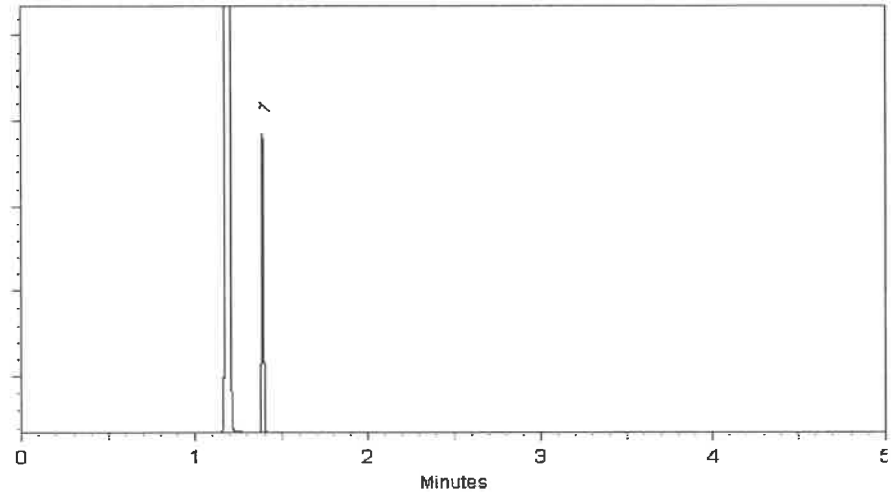
FID

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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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. : 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:

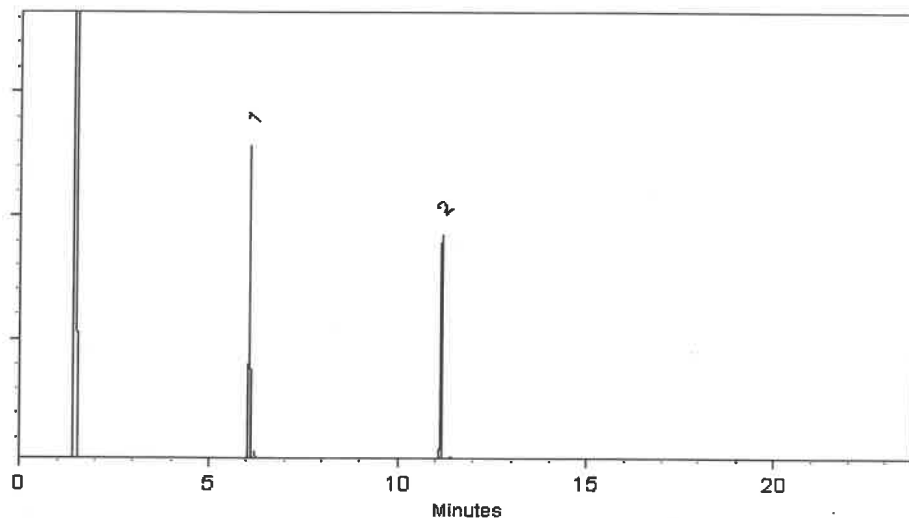
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

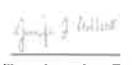


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.



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. : 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:

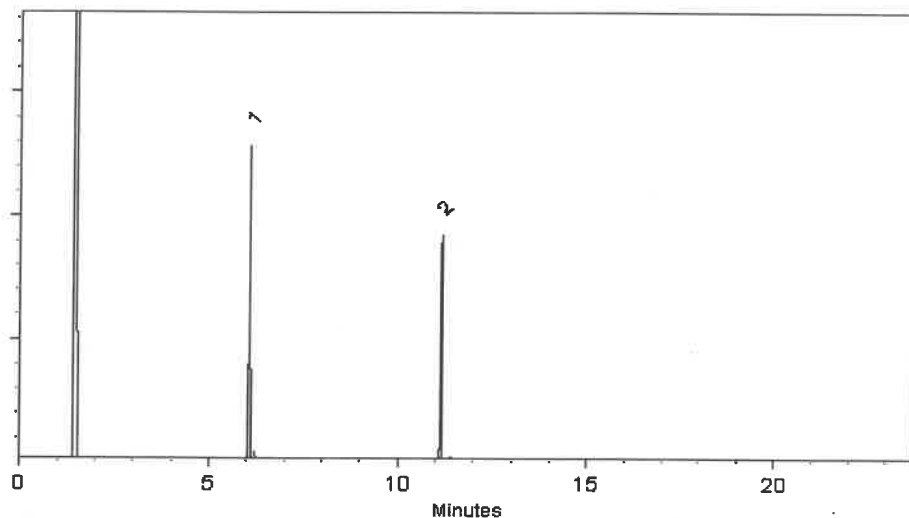
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

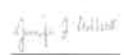


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Santa Rosa, CA 95403

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff

Melissa Workoff
Chemist

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



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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
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
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%



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/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

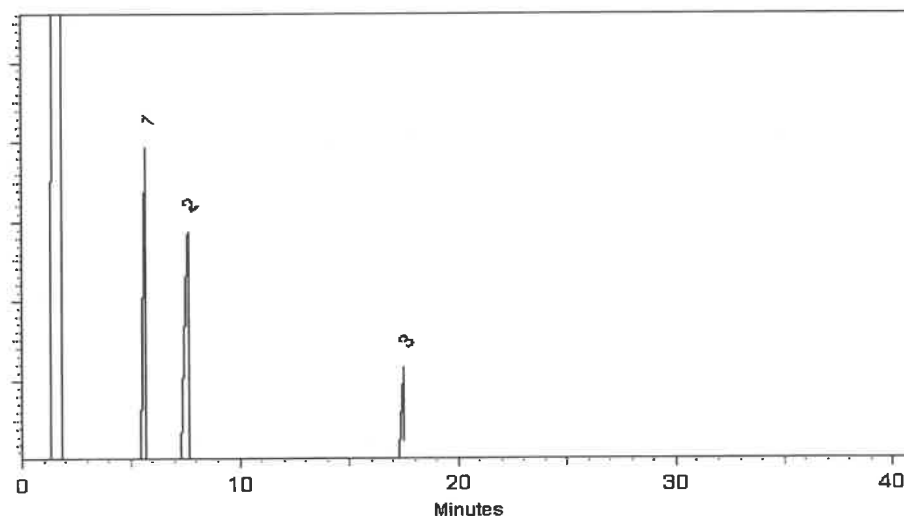
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Penelope B. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

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



110 Benner Circle
Bellefonte, PA 16823-8812
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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. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

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

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

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

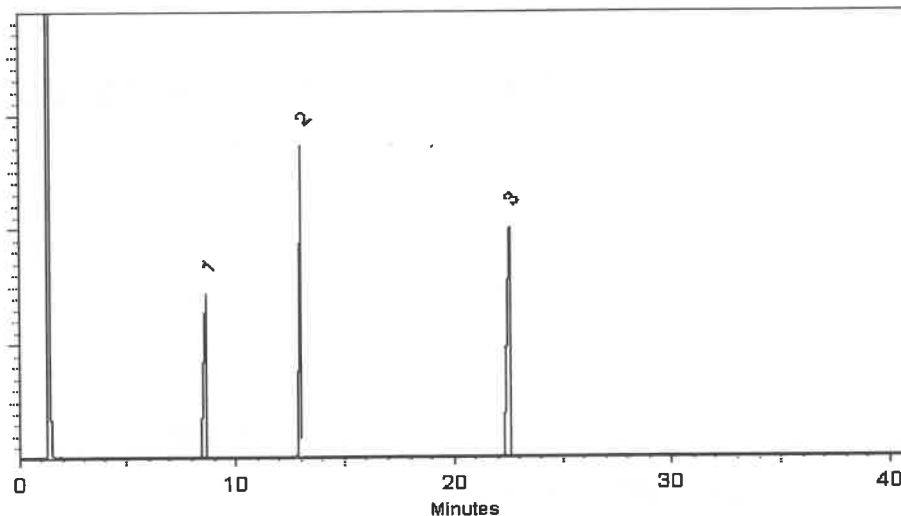
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

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

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

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Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By: _____

Kerry Kane
Chemist

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



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Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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:

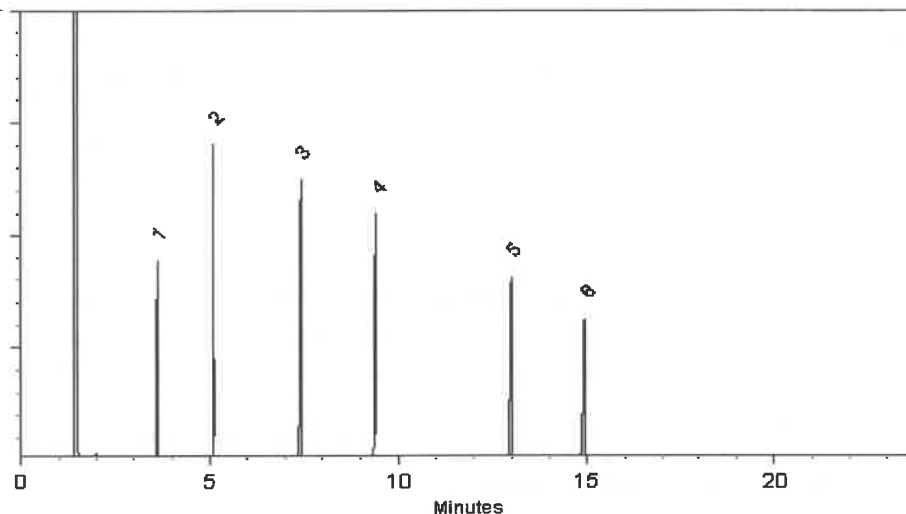
FID

Split Vent:

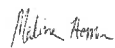
10 ml/min.

Inj. Vol

1µl

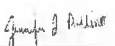


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905


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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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:

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

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

Manufacturing Notes:

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

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

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

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Santa Rosa, CA 95403

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Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~512280~~ } RCL
↓
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL
↓
512794 } 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

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



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Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

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

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

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number:

Q1477

COC Number:

CLIENT INFORMATION			PROJECT INFORMATION			BILLING INFORMATION			
COMPANY: Tetra Tech			PROJECT NAME: NWIRP Bethpage			BILL TO: PO#			
ADDRESS: 4433 Corporation Ln, Suite 300			PROJECT #: 112G08005-WE13 LOCATION: RW7B			ADDRESS:			
CITY: Virginia Beach STATE: VA ZIP: 23462			PROJECT MANAGER: Ernie Wu			CITY: STATE: ZIP:			
ATTENTION: Ernie Wu			E-MAIL: ernie.wu@tetrattech.com			ATTENTION: PHONE:			
PHONE: 757-466-4901 FAX: 757-461-4148			PHONE: 757-466-4901 FAX: 757-461-4148						
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION			ANALYSIS			
FAX: 10 DAYS* HARD COPY: 10 DAYS* EDD: 10 DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS			☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____			1,4-Dioxane SW846 8270 SIM Iron 1 2 3 4 5 6 7 8 9			
CHEMTECH SAMPLE ID			PROJECT SAMPLE IDENTIFICATION			SAMPLE MATRIX			
						SAMPLE TYPE			
						SAMPLE COLLECTION			
						DATE TIME			
						# of Bottles			
						PRESERVATIVES			
						COMMENTS			
						<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other			
1.	RW7-SP100-20250228	GW		X	2/28/25	12:15	2	X	X
2.	RW7-SP201-20250228	GW		X	2/28/25	12:17	1	X	
3.	RW7-SP302-20250228	GW		X	2/28/25	12:27	1	X	
4.	RW7-SP303-20250228	GW		X	2/28/25	12:29	2	X	X
5.									
6.									
7.									
8.									
9.									
10.									
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY									
RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 4.3						
1. [Signature]	2/28/25/1600	1. [Signature]	MeOH extraction requires an additional 4oz. Jar for percent solid						
RELINQUISHED BY	DATE/TIME	RECEIVED BY	Comments:						
2. [Signature]	3-3-25	2. [Signature]	IR Curt #1						
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight						
3. [Signature]	2-24-25	3. [Signature]	CHEMTECH: ☐ Picked Up ☐ Overnight						
			Shipment Complete ☐ YES ☐ NO						
Page _____ of _____									

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Samples 1,4 rec'd without metal Bottles



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
 Data File : BN036524.D
 Acq On : 05 Mar 2025 13:31
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Mar 05 16:09:24 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

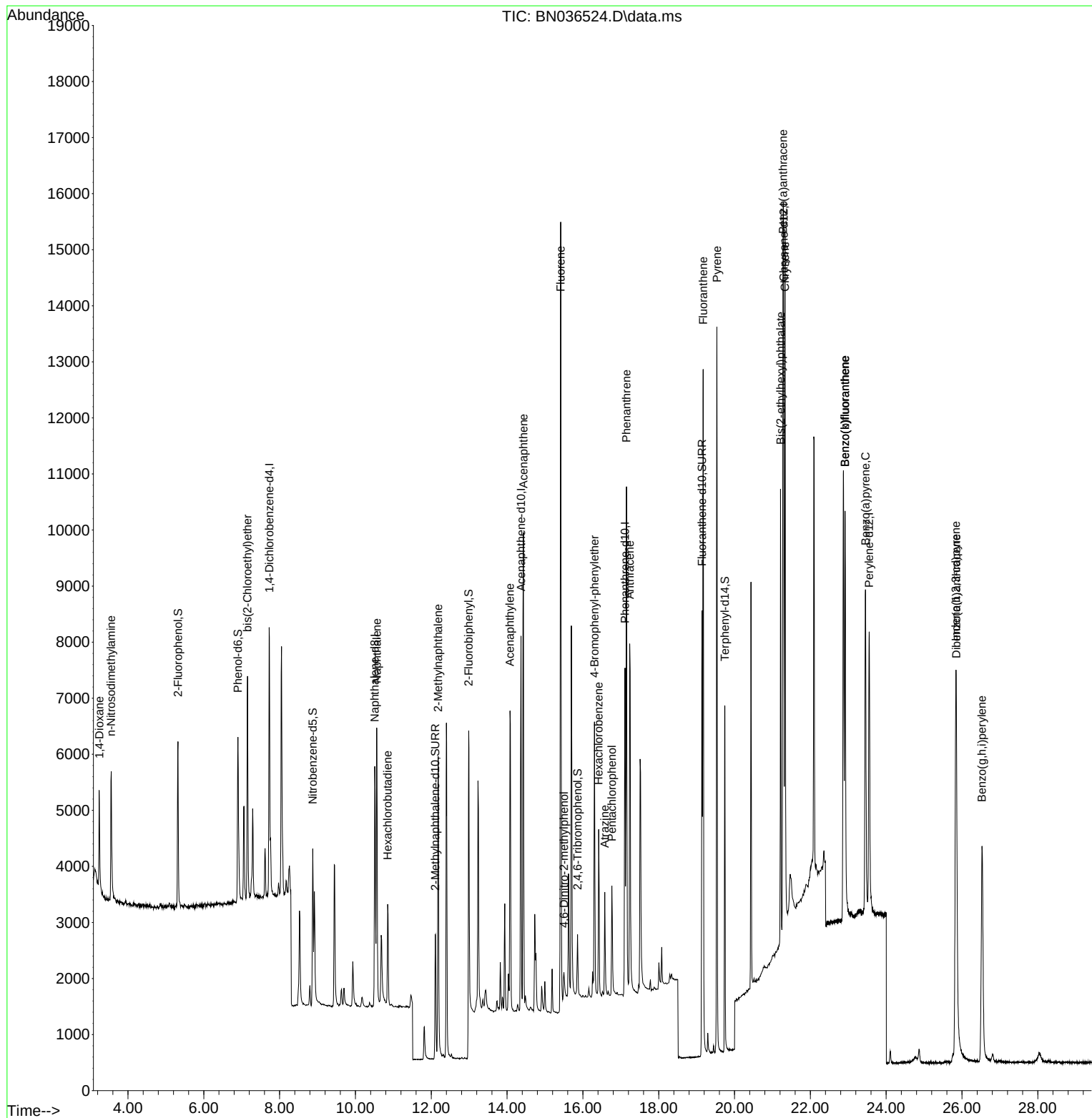
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	2348	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	5891	0.400	ng	0.00
13) Acenaphthene-d10	14.366	164	3887	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	7928	0.400	ng	0.00
29) Chrysene-d12	21.295	240	7302	0.400	ng	0.00
35) Perylene-d12	23.551	264	7292	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	2256	0.406	ng	0.00
5) Phenol-d6	6.901	99	2710	0.416	ng	0.00
8) Nitrobenzene-d5	8.875	82	2360	0.406	ng	0.00
11) 2-Methylnaphthalene-d10	12.106	152	3483	0.385	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	613	0.318	ng	0.00
15) 2-Fluorobiphenyl	12.988	172	8237	0.564	ng	0.00
27) Fluoranthene-d10	19.141	212	8803	0.399	ng	0.00
31) Terphenyl-d14	19.745	244	6133	0.393	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.247	88	1024	0.399	ng	92
3) n-Nitrosodimethylamine	3.550	42	1908	0.428	ng	# 98
6) bis(2-Chloroethyl)ether	7.154	93	2868	0.421	ng	98
9) Naphthalene	10.562	128	6578	0.387	ng	100
10) Hexachlorobutadiene	10.850	225	1524	0.368	ng	# 99
12) 2-Methylnaphthalene	12.182	142	4220	0.379	ng	100
16) Acenaphthylene	14.078	152	6474	0.377	ng	100
17) Acenaphthene	14.430	154	4257	0.371	ng	98
18) Fluorene	15.414	166	5822	0.357	ng	100
20) 4,6-Dinitro-2-methylph...	15.499	198	494	0.318	ng	94
21) 4-Bromophenyl-phenylether	16.305	248	1776	0.376	ng	93
22) Hexachlorobenzene	16.416	284	2169	0.371	ng	98
23) Atrazine	16.578	200	1528	0.387	ng	95
24) Pentachlorophenol	16.764	266	1040	0.375	ng	98
25) Phenanthrene	17.149	178	9019	0.394	ng	99
26) Anthracene	17.235	178	8093	0.400	ng	99
28) Fluoranthene	19.174	202	11196	0.398	ng	98
30) Pyrene	19.536	202	11526	0.410	ng	99
32) Benzo(a)anthracene	21.277	228	9909	0.412	ng	98
33) Chrysene	21.331	228	10684	0.411	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	7086	0.473	ng	100
36) Indeno(1,2,3-cd)pyrene	25.838	276	9728	0.382	ng	100
37) Benzo(b)fluoranthene	22.917	252	9771	0.407	ng	99
38) Benzo(k)fluoranthene	22.917	252	9771	0.395	ng	99
39) Benzo(a)pyrene	23.455	252	8631	0.412	ng	# 91
40) Dibenzo(a,h)anthracene	25.852	278	7487	0.372	ng	99
41) Benzo(g,h,i)perylene	26.528	276	8456	0.371	ng	98

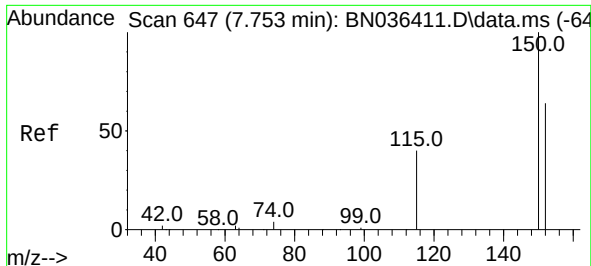
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Data File : BN036524.D
Acq On : 05 Mar 2025 13:31
Operator : RC/JU
Sample : SSTCCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTCCCC0.4

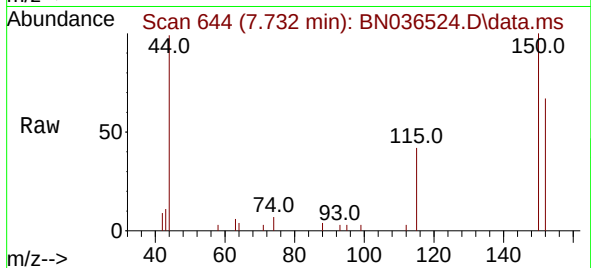
Quant Time: Mar 05 16:09:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration



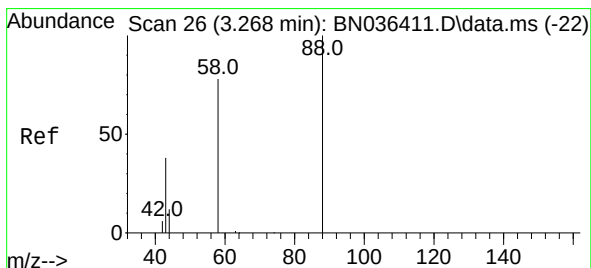
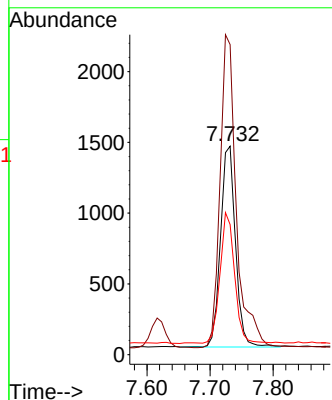
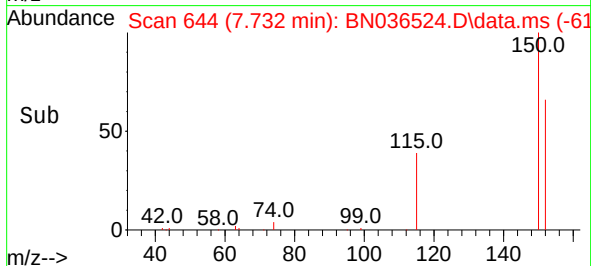


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.732 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

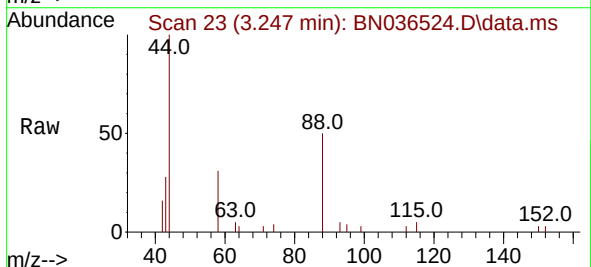
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BNA_N
ClientSampleId :
SSTDCCC0.4



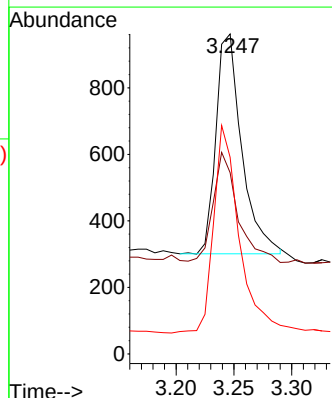
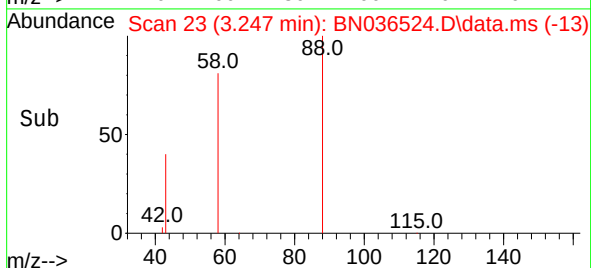
Tgt Ion:152 Resp: 2348
Ion Ratio Lower Upper
152 100
150 148.7 123.7 185.5
115 62.4 52.5 78.7

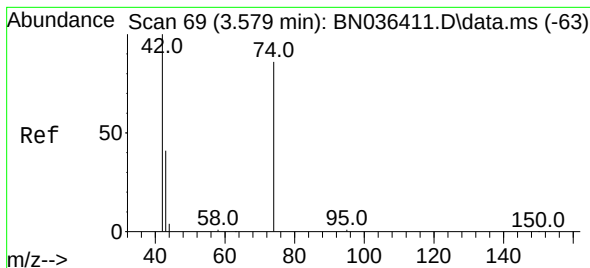


#2
1,4-Dioxane
Concen: 0.399 ng
RT: 3.247 min Scan# 23
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31



Tgt Ion: 88 Resp: 1024
Ion Ratio Lower Upper
88 100
43 47.9 33.7 50.5
58 92.9 68.9 103.3





#3

n-Nitrosodimethylamine

Concen: 0.428 ng

RT: 3.550 min Scan# 61

Delta R.T. 0.000 min

Lab File: BN036524.D

Acq: 05 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

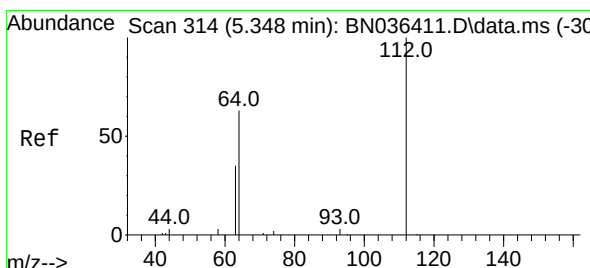
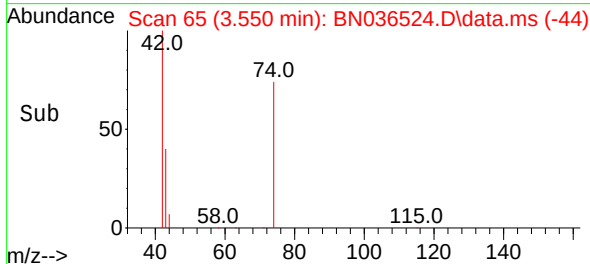
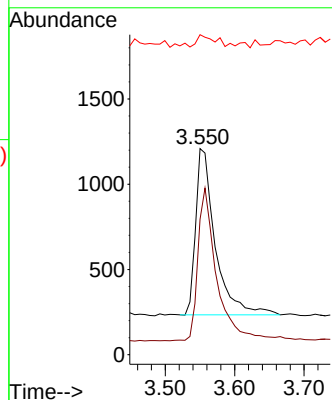
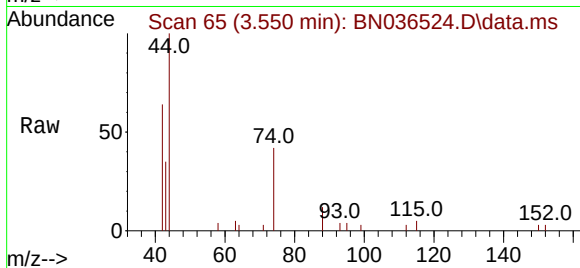
Tgt Ion: 42 Resp: 1908

Ion Ratio Lower Upper

42 100

74 88.8 71.8 107.6

44 7.0 7.8 11.6#



#4

2-Fluorophenol

Concen: 0.406 ng

RT: 5.319 min Scan# 310

Delta R.T. 0.000 min

Lab File: BN036524.D

Acq: 05 Mar 2025 13:31

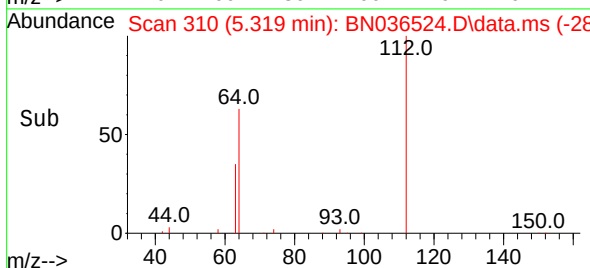
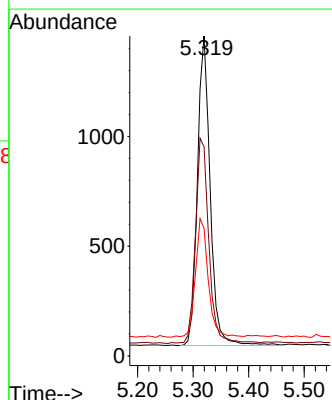
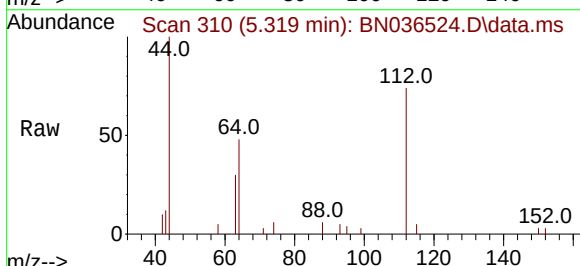
Tgt Ion: 112 Resp: 2256

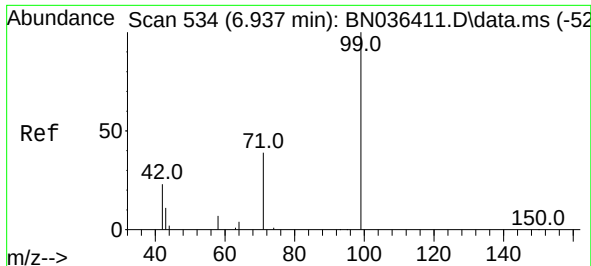
Ion Ratio Lower Upper

112 100

64 69.1 53.4 80.0

63 38.2 30.3 45.5

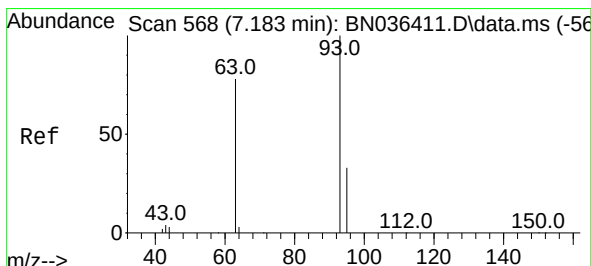
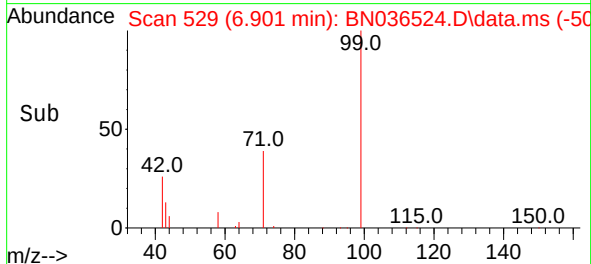
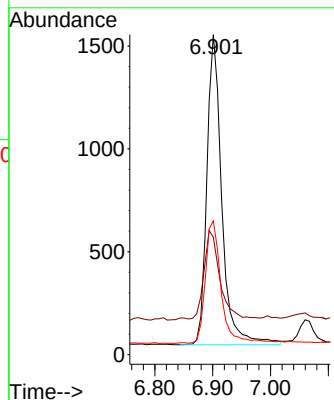
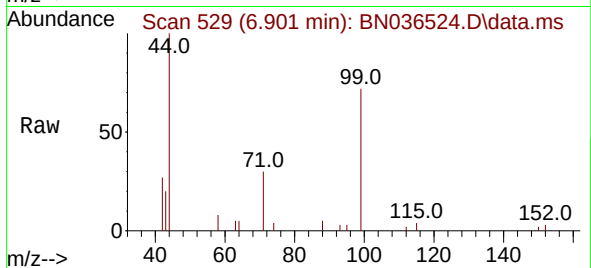




#5
Phenol-d6
Concen: 0.416 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

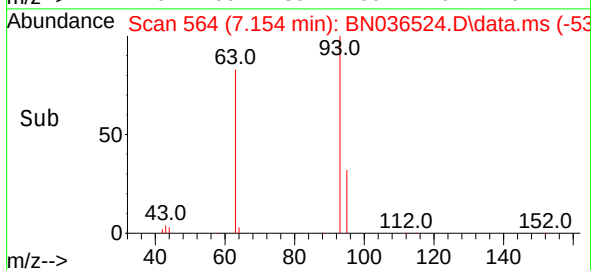
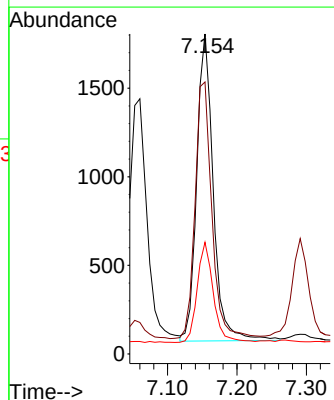
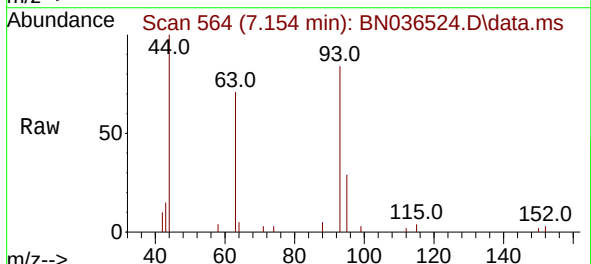
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

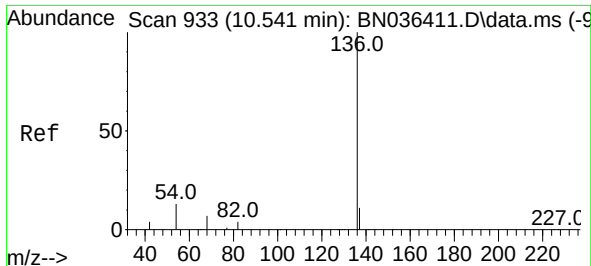
Tgt Ion: 99 Resp: 2710
Ion Ratio Lower Upper
99 100
42 31.5 21.7 32.5
71 41.9 32.6 49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.421 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion: 93 Resp: 2868
Ion Ratio Lower Upper
93 100
63 85.2 66.3 99.5
95 31.8 26.2 39.4

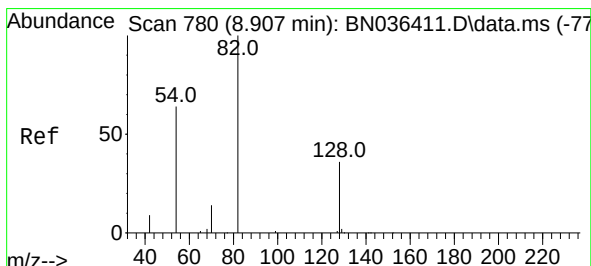
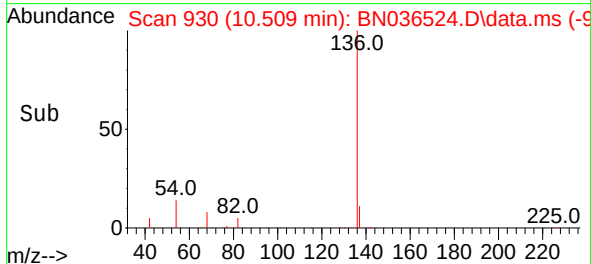
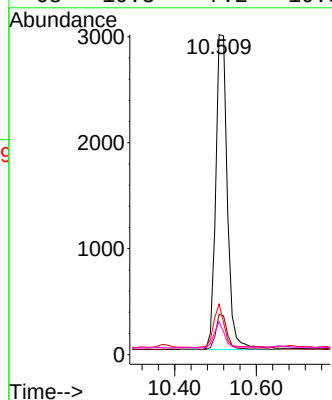
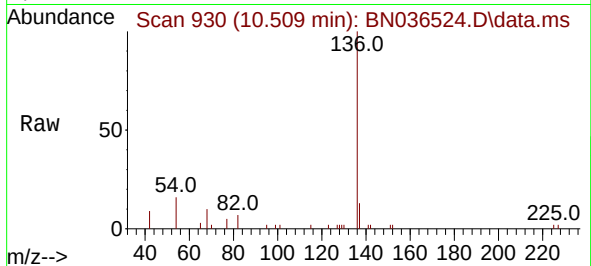




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

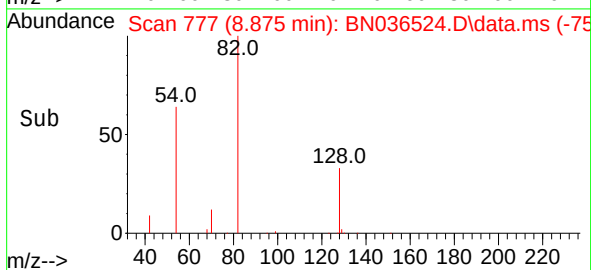
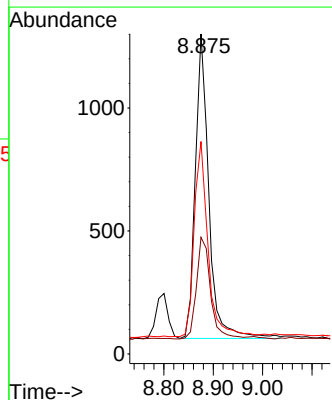
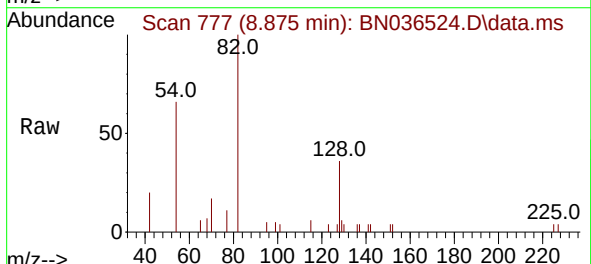
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

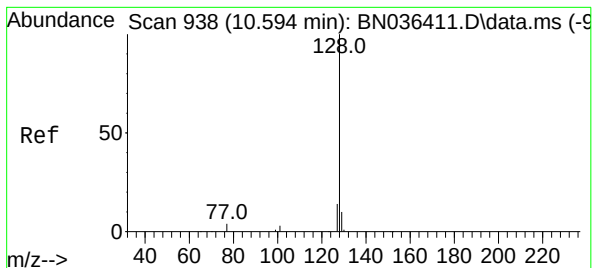
Tgt Ion:	136	Resp:	5891
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.1	15.1
54	15.8	11.8	17.6
68	10.3	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.406 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:	82	Resp:	2360
Ion	Ratio	Lower	Upper
82	100		
128	36.4	31.9	47.9
54	66.4	53.1	79.7





#9

Naphthalene

Concen: 0.387 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036524.D

Acq: 05 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

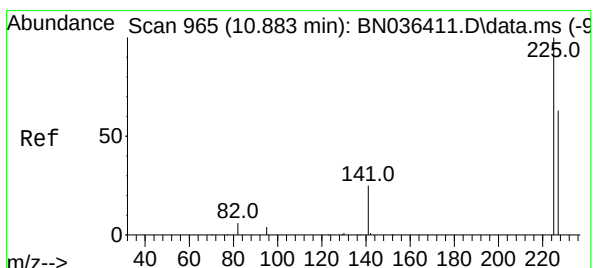
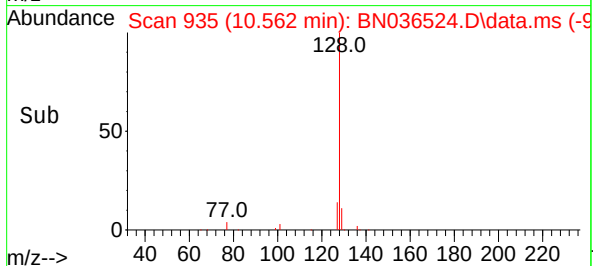
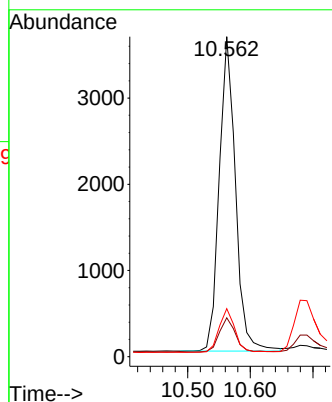
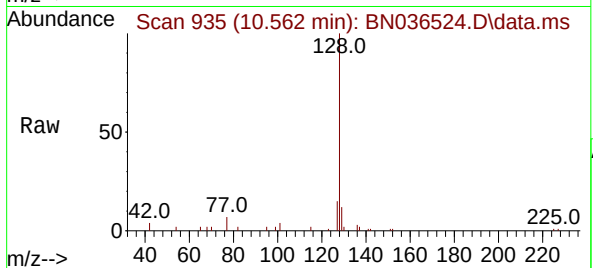
Tgt Ion:128 Resp: 6578

Ion Ratio Lower Upper

128 100

129 12.1 9.6 14.4

127 15.0 12.0 18.0



#10

Hexachlorobutadiene

Concen: 0.368 ng

RT: 10.850 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN036524.D

Acq: 05 Mar 2025 13:31

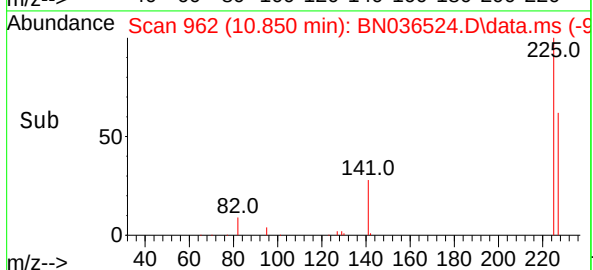
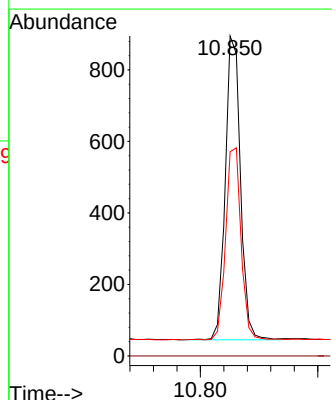
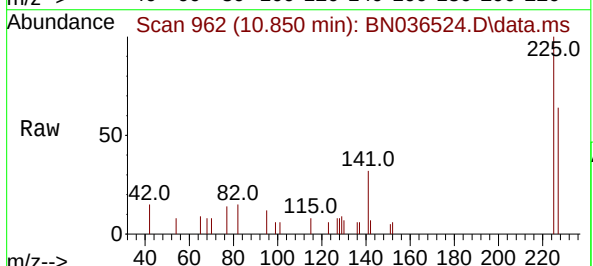
Tgt Ion:225 Resp: 1524

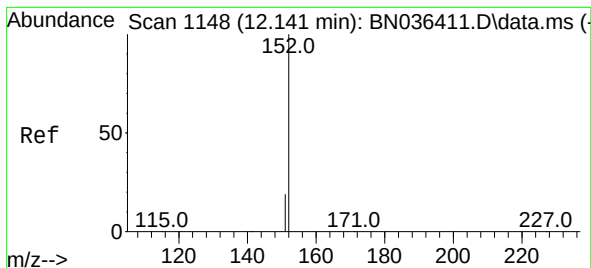
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.2 50.9 76.3

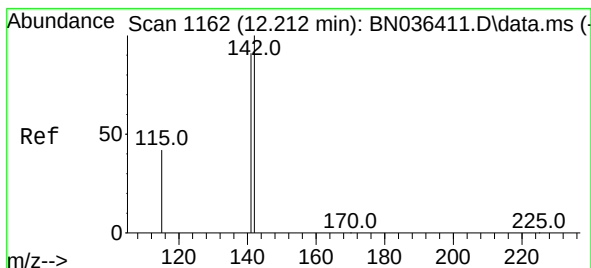
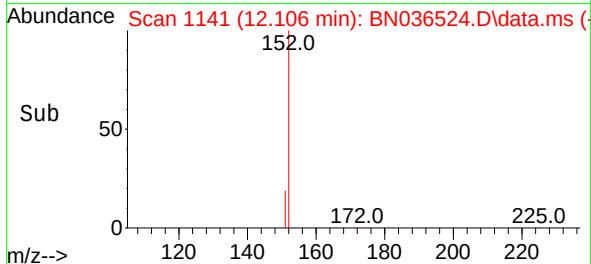
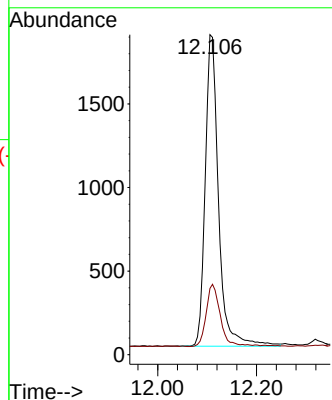
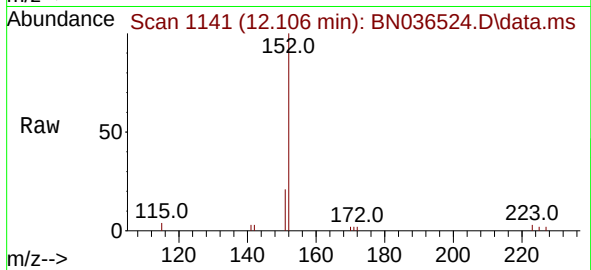




#11
2-Methylnaphthalene-d10
Concen: 0.385 ng
RT: 12.106 min Scan# 1141
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

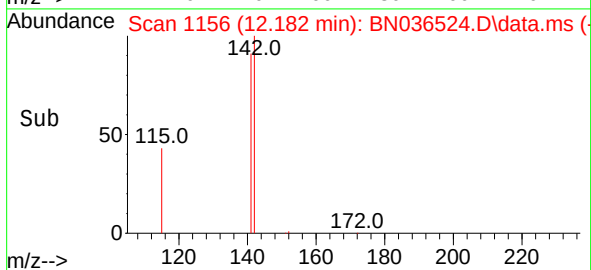
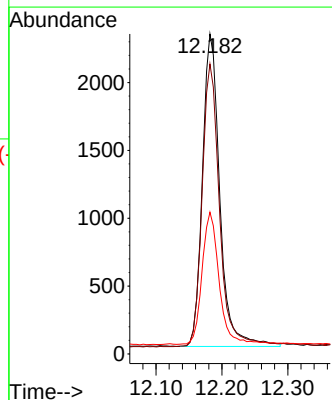
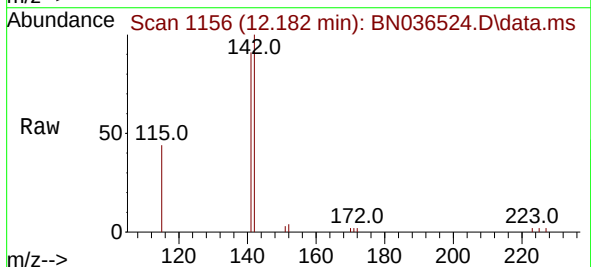
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

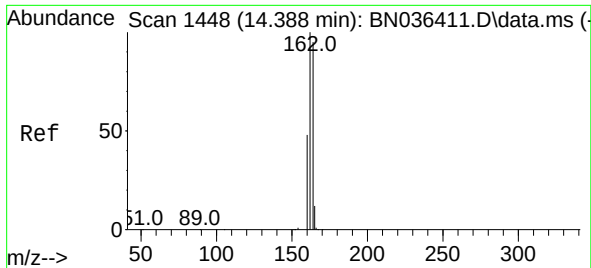
Tgt Ion:152 Resp: 3483
Ion Ratio Lower Upper
152 100
151 21.2 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.379 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:142 Resp: 4220
Ion Ratio Lower Upper
142 100
141 90.6 72.8 109.2
115 44.3 35.5 53.3

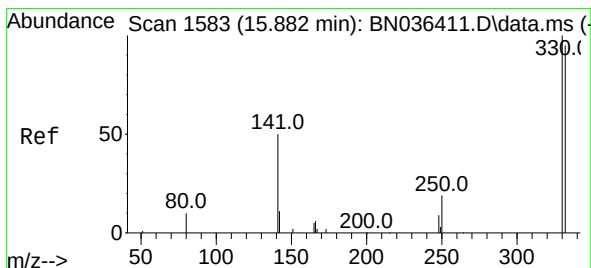
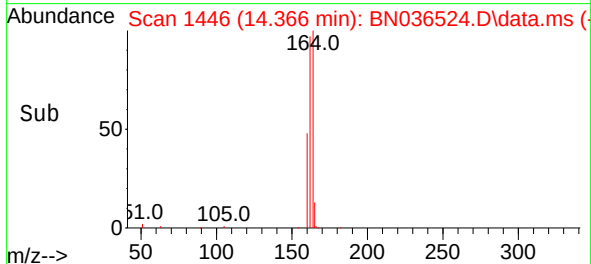
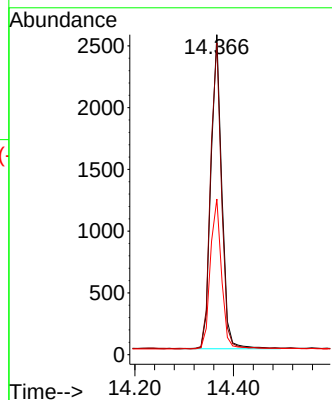
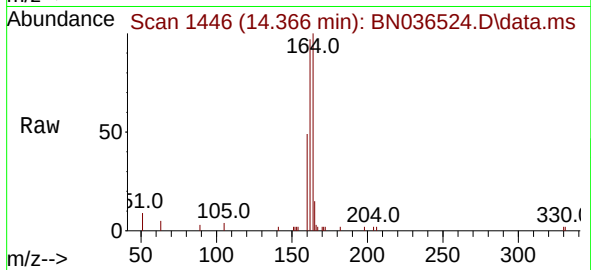




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

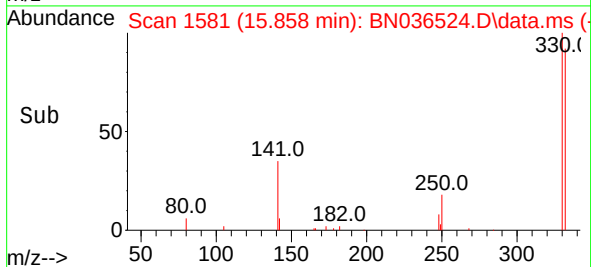
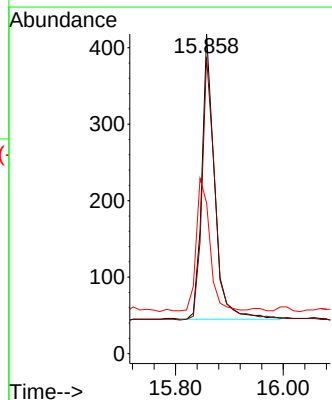
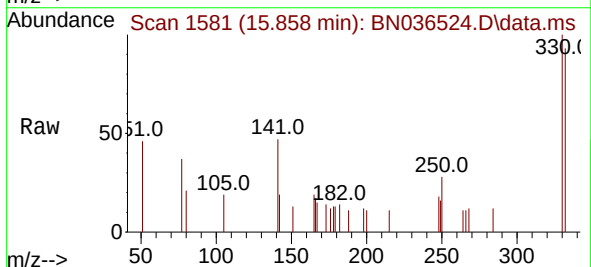
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

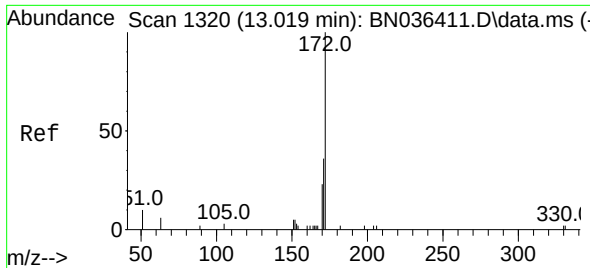
Tgt Ion:164 Resp: 3887
Ion Ratio Lower Upper
164 100
162 97.5 84.1 126.1
160 48.7 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.858 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:330 Resp: 613
Ion Ratio Lower Upper
330 100
332 96.2 76.6 114.8
141 49.1 37.8 56.8

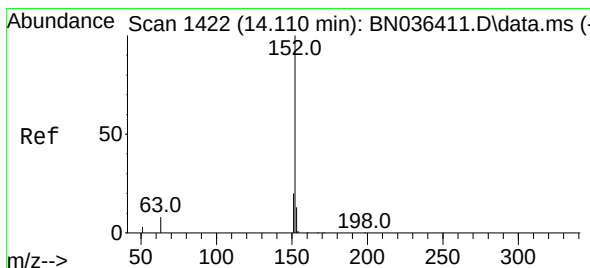
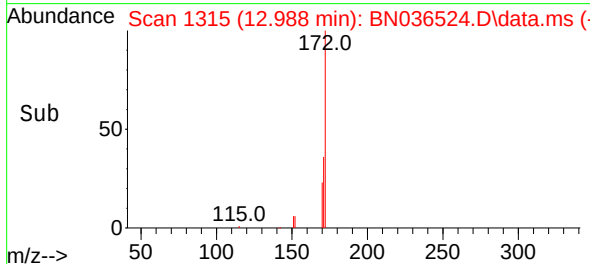
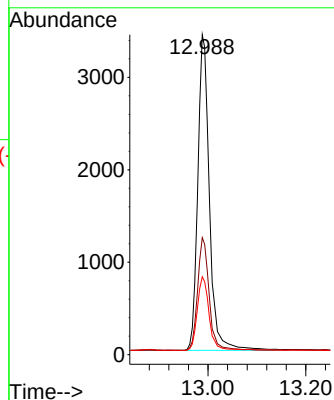
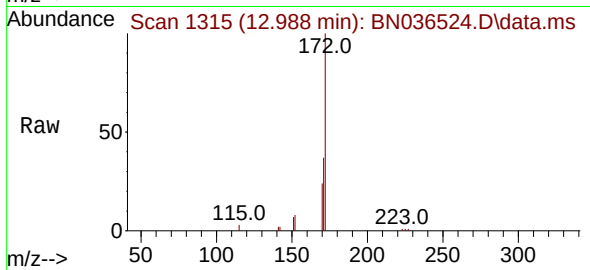




#15
2-Fluorobiphenyl
Concen: 0.564 ng
RT: 12.988 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

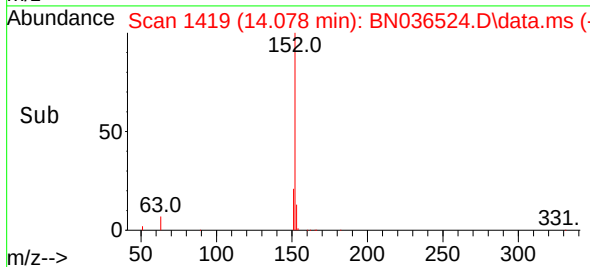
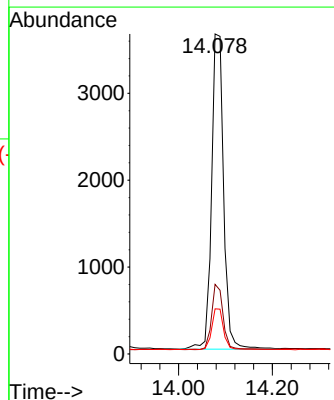
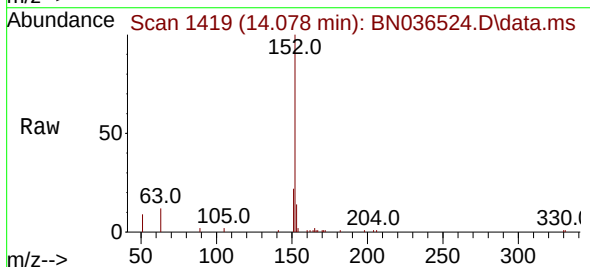
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

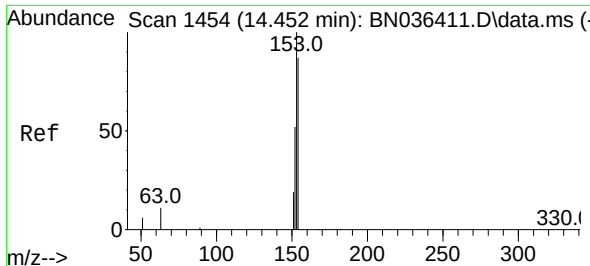
Tgt Ion:172 Resp: 8237
Ion Ratio Lower Upper
172 100
171 36.6 29.6 44.4
170 24.4 19.8 29.6



#16
Acenaphthylene
Concen: 0.377 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:152 Resp: 6474
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.8
153 12.9 10.2 15.2

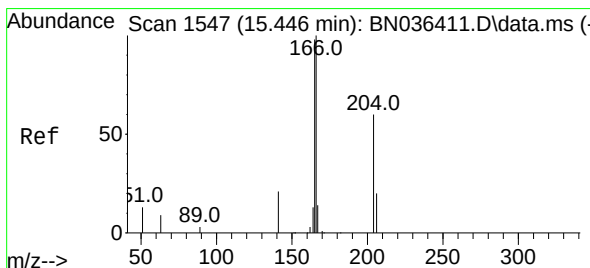
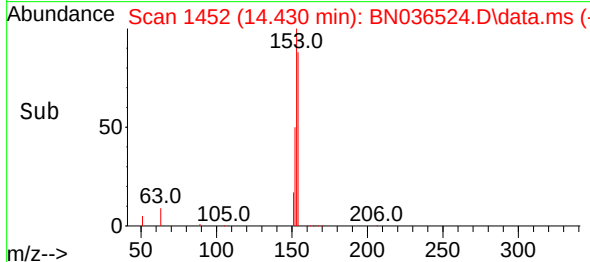
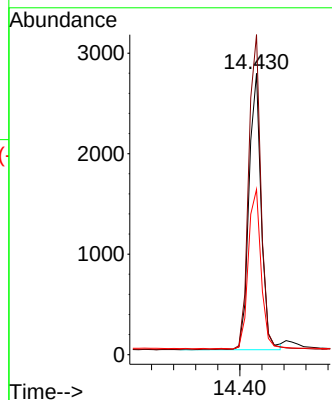
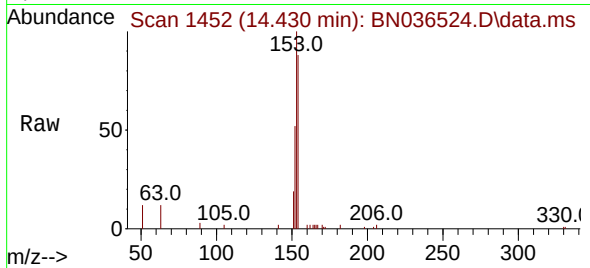




#17
Acenaphthene
Concen: 0.371 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

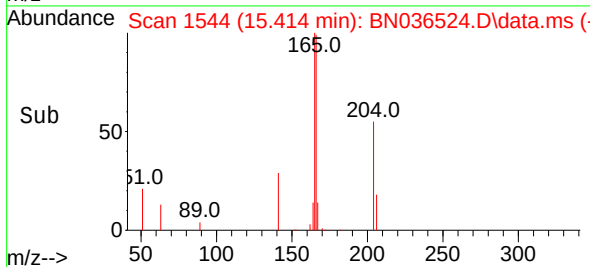
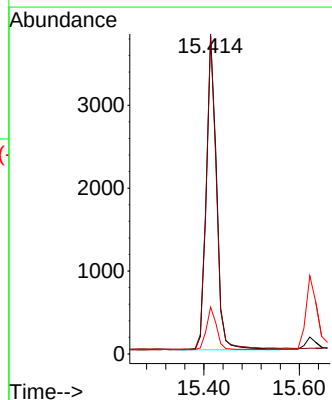
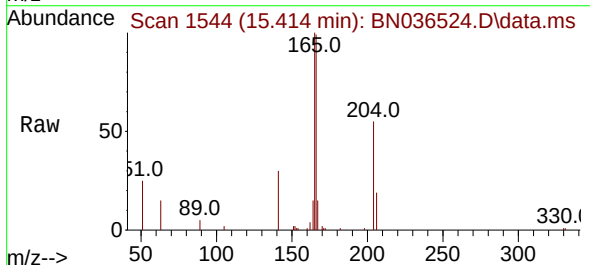
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

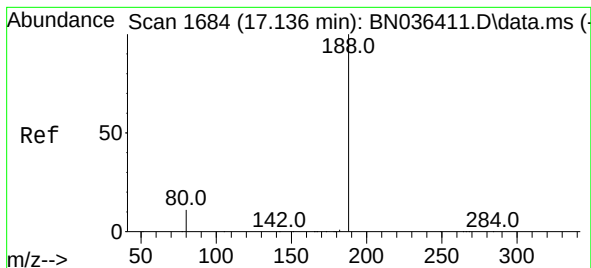
Tgt Ion:154 Resp: 4257
Ion Ratio Lower Upper
154 100
153 114.3 93.3 139.9
152 60.6 48.8 73.2



#18
Fluorene
Concen: 0.357 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:166 Resp: 5822
Ion Ratio Lower Upper
166 100
165 99.3 79.5 119.3
167 13.6 10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036524.D

Acq: 05 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

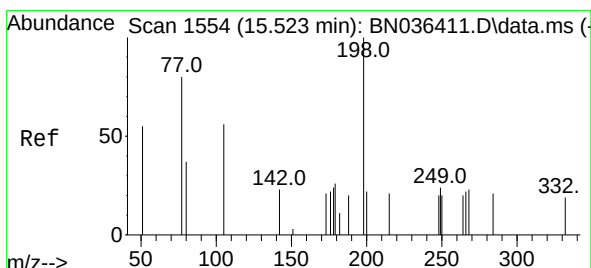
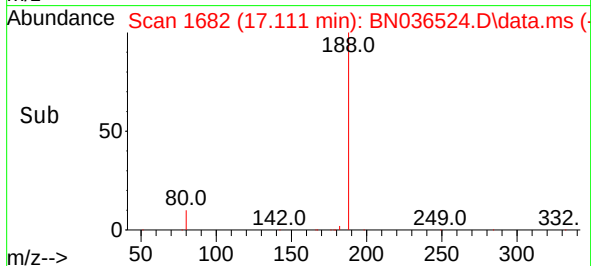
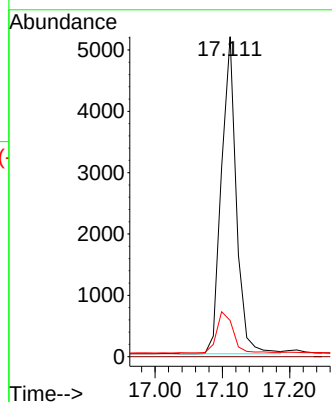
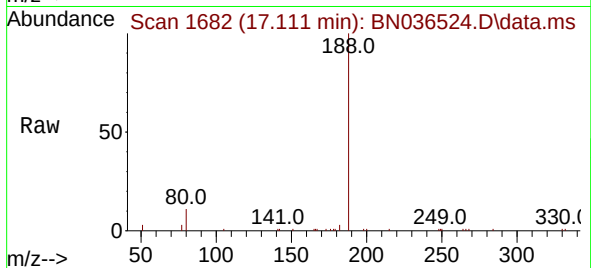
Tgt Ion:188 Resp: 7928

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.318 ng

RT: 15.499 min Scan# 1552

Delta R.T. 0.000 min

Lab File: BN036524.D

Acq: 05 Mar 2025 13:31

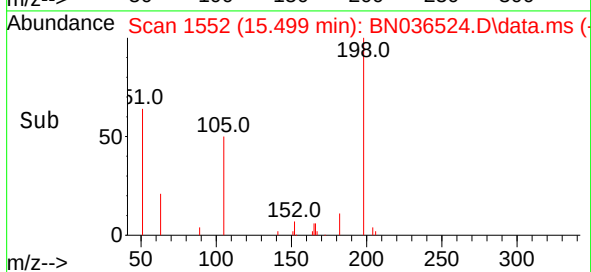
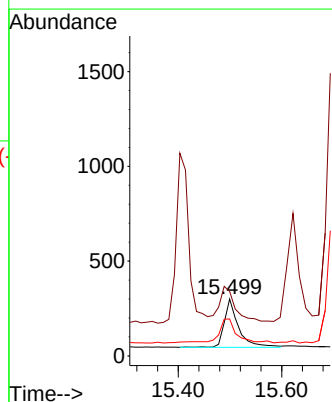
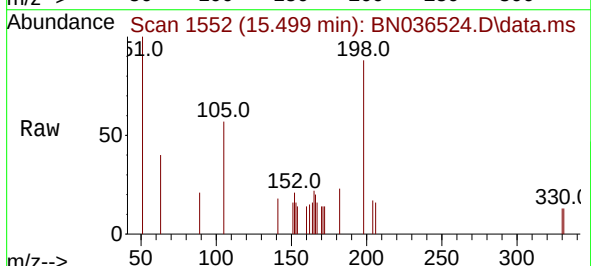
Tgt Ion:198 Resp: 494

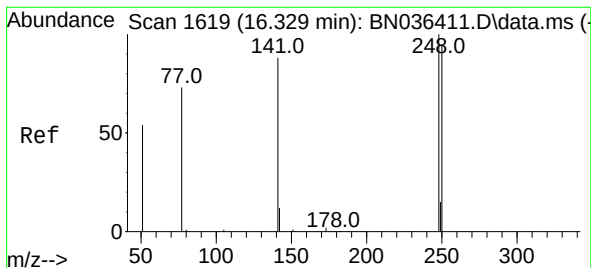
Ion Ratio Lower Upper

198 100

51 113.7 86.6 129.8

105 65.0 57.5 86.3

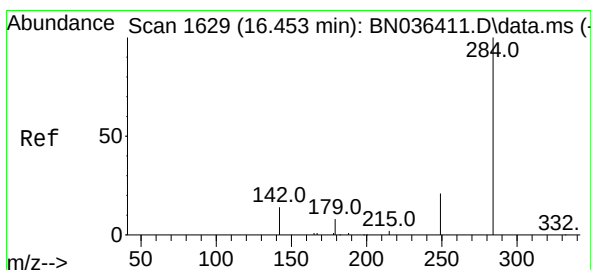
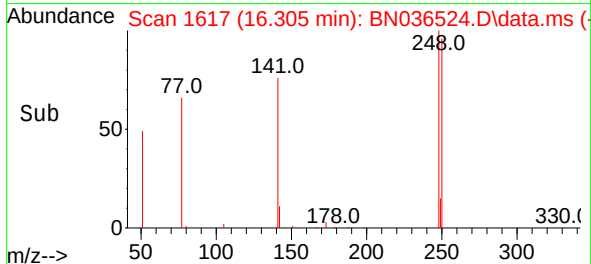
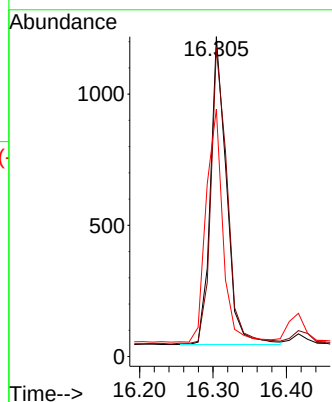
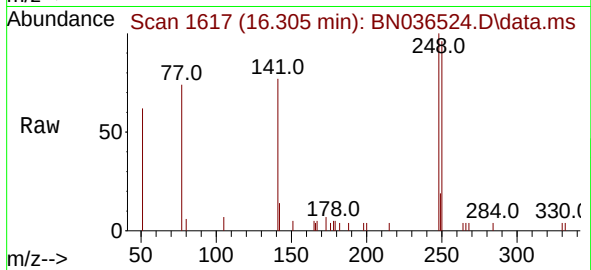




#21
4-Bromophenyl-phenylether
Concen: 0.376 ng
RT: 16.305 min Scan# 1617
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

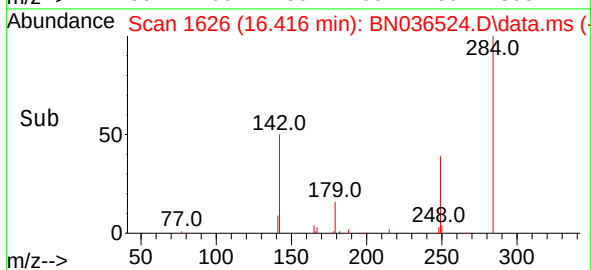
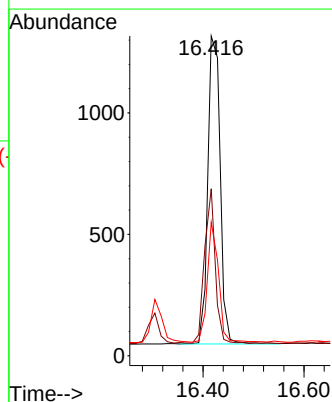
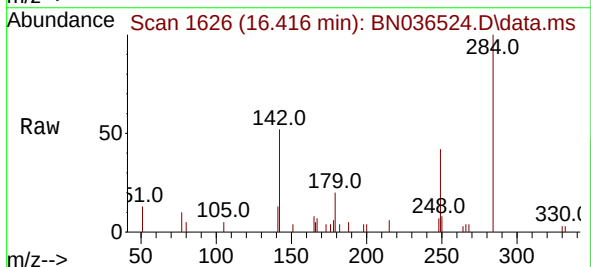
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

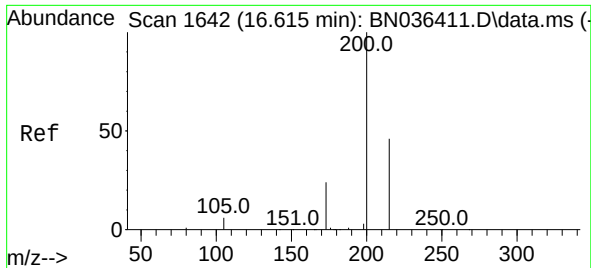
Tgt Ion:248 Resp: 1776
Ion Ratio Lower Upper
248 100
250 96.4 76.1 114.1
141 77.4 71.7 107.5



#22
Hexachlorobenzene
Concen: 0.371 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:284 Resp: 2169
Ion Ratio Lower Upper
284 100
142 43.3 33.4 50.0
249 35.2 28.6 43.0

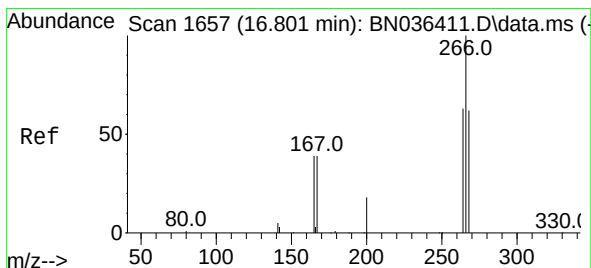
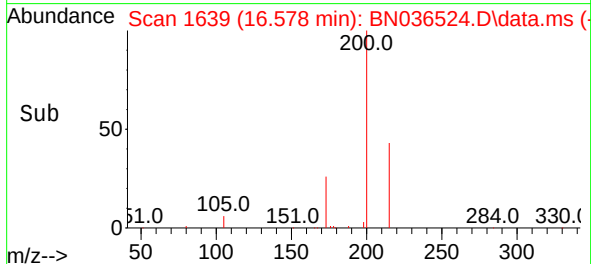
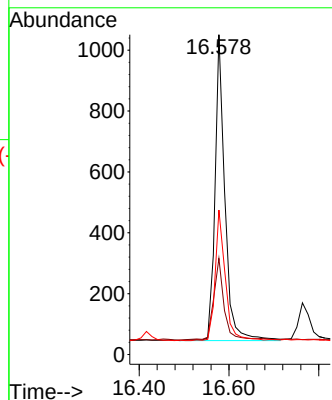
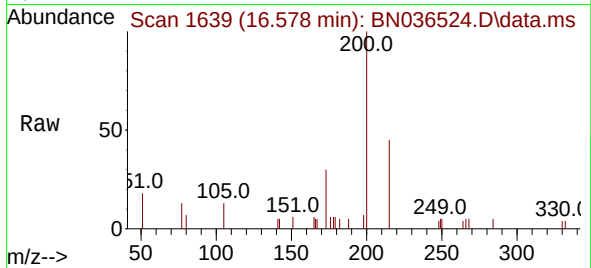




#23
Atrazine
Concen: 0.387 ng
RT: 16.578 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

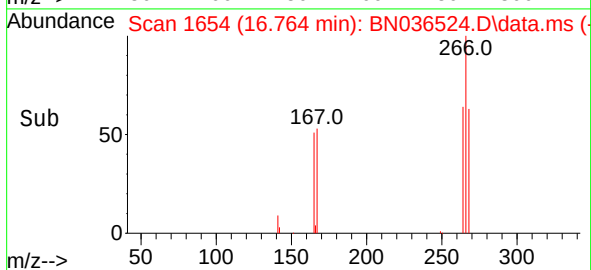
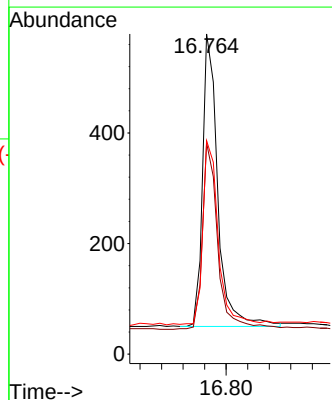
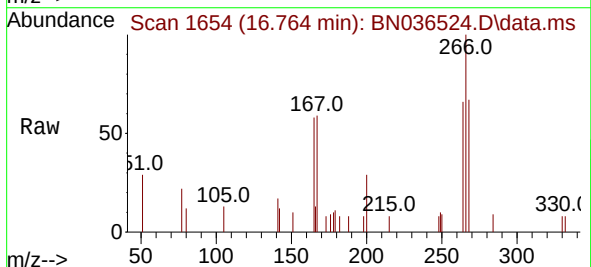
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

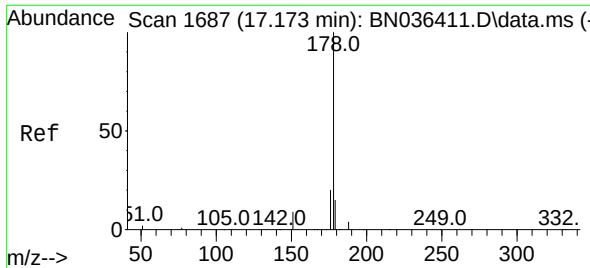
Tgt Ion:200 Resp: 1528
Ion Ratio Lower Upper
200 100
173 30.1 23.2 34.8
215 45.2 40.0 60.0



#24
Pentachlorophenol
Concen: 0.375 ng
RT: 16.764 min Scan# 1654
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:266 Resp: 1040
Ion Ratio Lower Upper
266 100
264 64.1 50.6 76.0
268 62.8 51.9 77.9

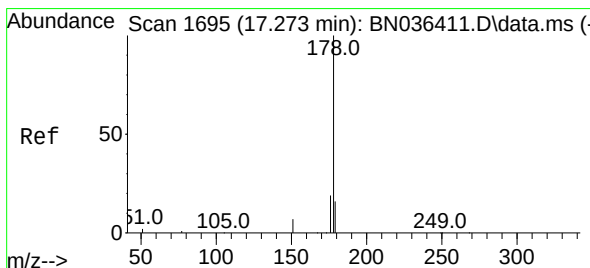
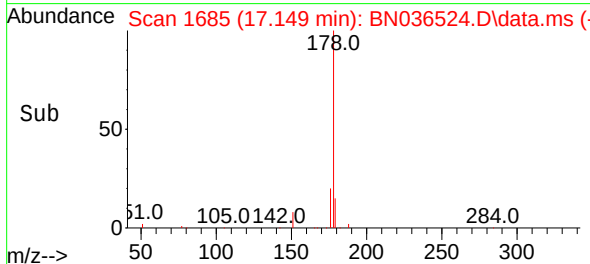
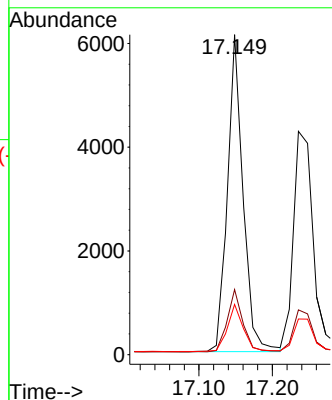
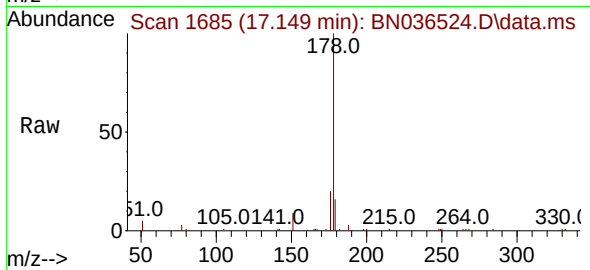




#25
Phenanthrene
Concen: 0.394 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

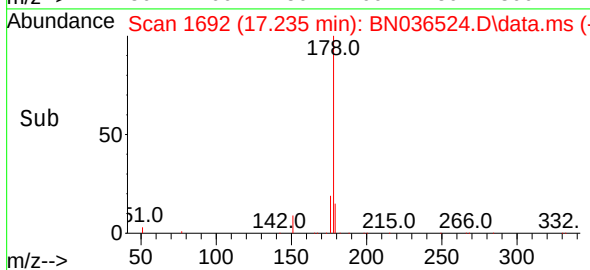
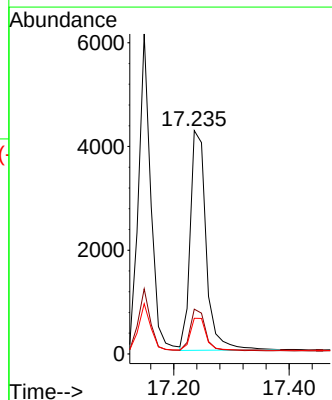
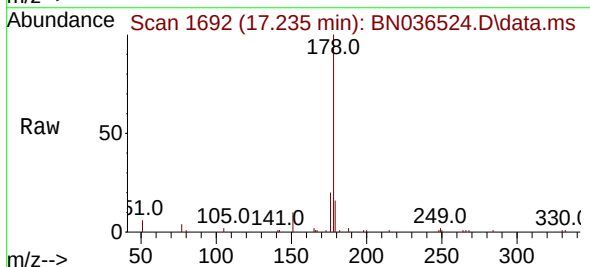
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

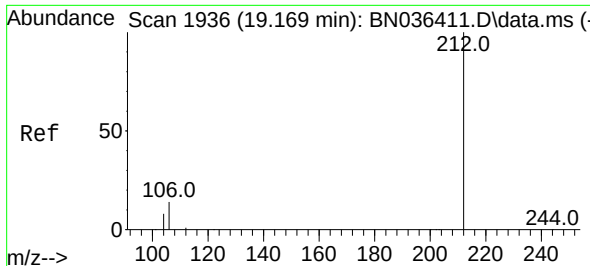
Tgt Ion:178 Resp: 9019
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.2 12.4 18.6



#26
Anthracene
Concen: 0.400 ng
RT: 17.235 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:178 Resp: 8093
Ion Ratio Lower Upper
178 100
176 18.3 14.9 22.3
179 15.1 12.4 18.6

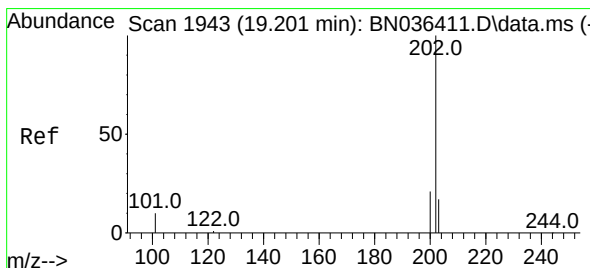
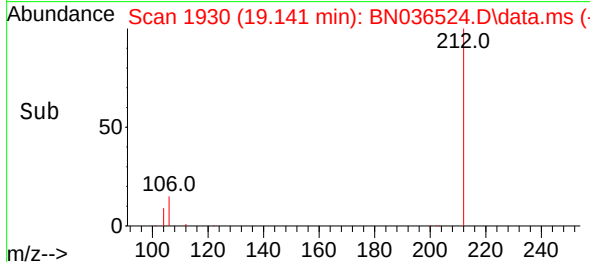
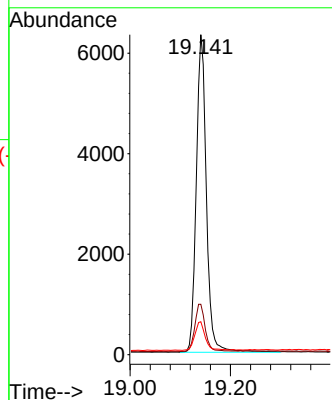
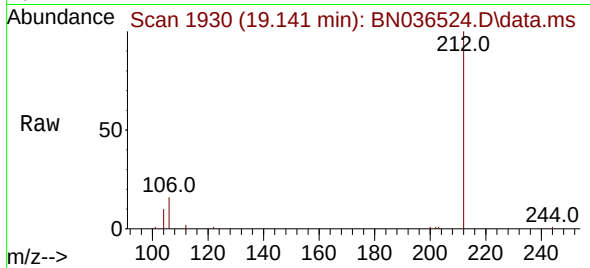




#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 19.141 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

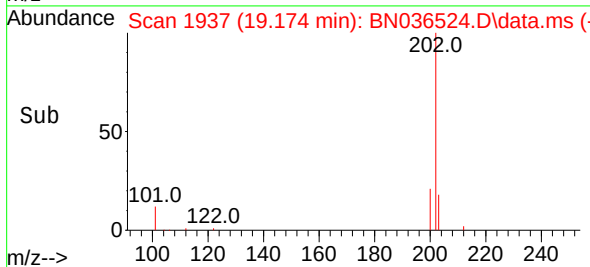
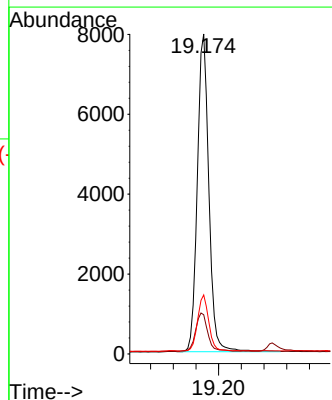
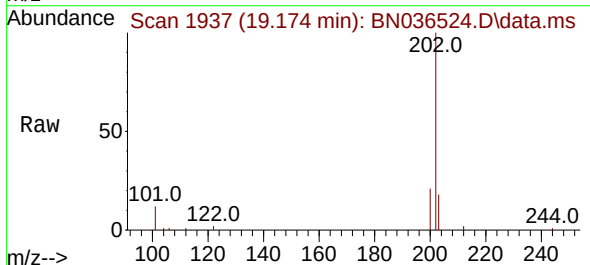
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

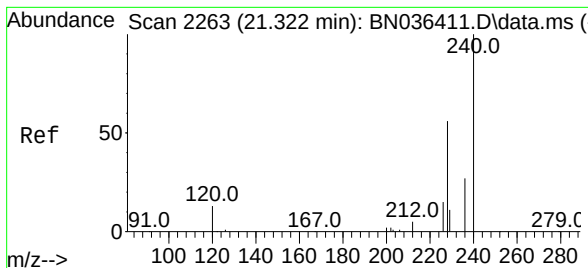
Tgt Ion:212 Resp: 8803
Ion Ratio Lower Upper
212 100
106 15.3 11.5 17.3
104 9.2 7.1 10.7



#28
Fluoranthene
Concen: 0.398 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:202 Resp: 11196
Ion Ratio Lower Upper
202 100
101 12.7 9.2 13.8
203 17.1 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036524.D

Acq: 05 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

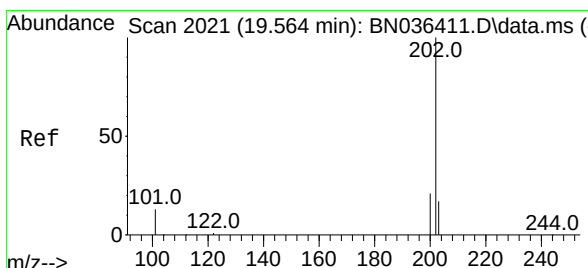
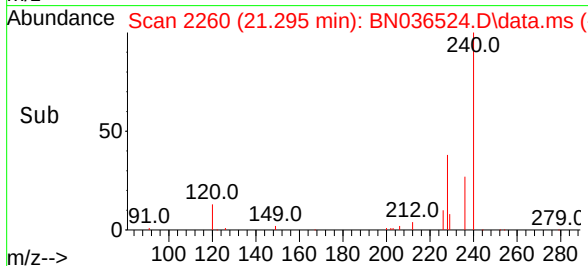
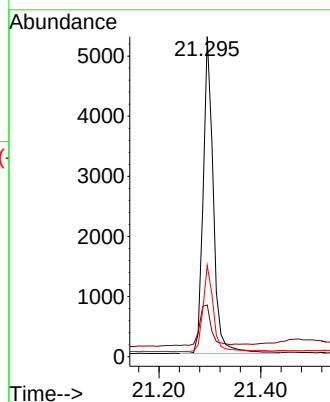
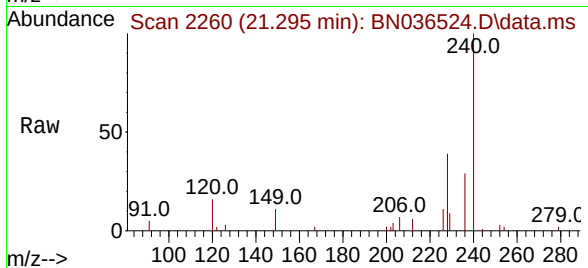
Tgt Ion:240 Resp: 7302

Ion Ratio Lower Upper

240 100

120 16.2 13.3 19.9

236 28.5 23.0 34.6



#30

Pyrene

Concen: 0.410 ng

RT: 19.536 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN036524.D

Acq: 05 Mar 2025 13:31

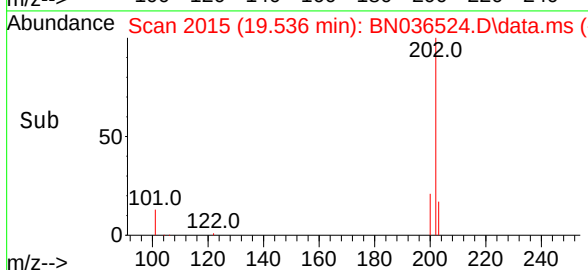
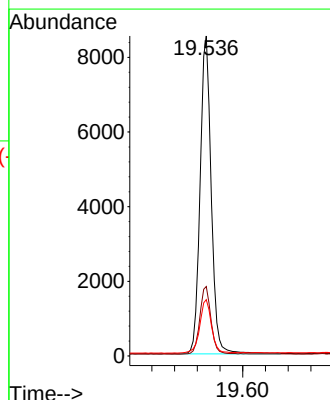
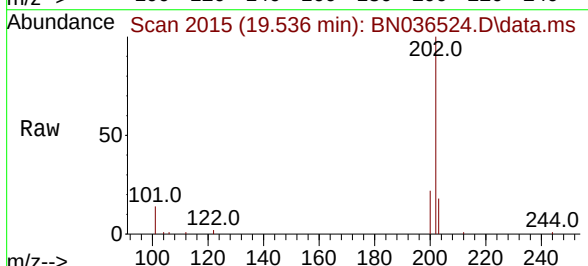
Tgt Ion:202 Resp: 11526

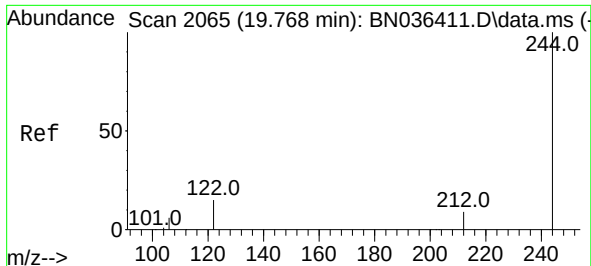
Ion Ratio Lower Upper

202 100

200 21.4 16.9 25.3

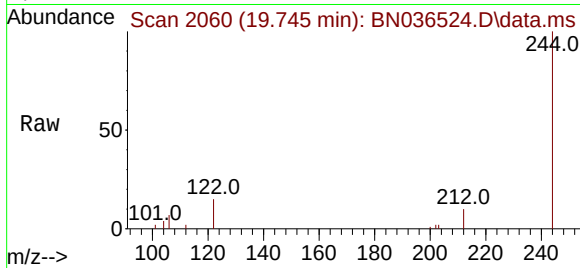
203 17.8 13.9 20.9



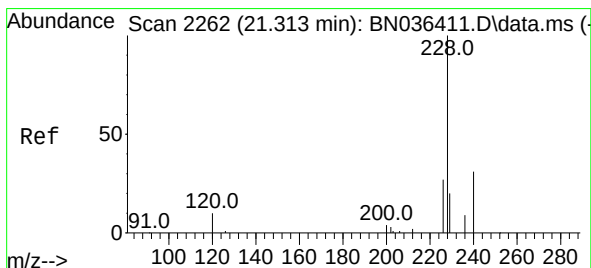
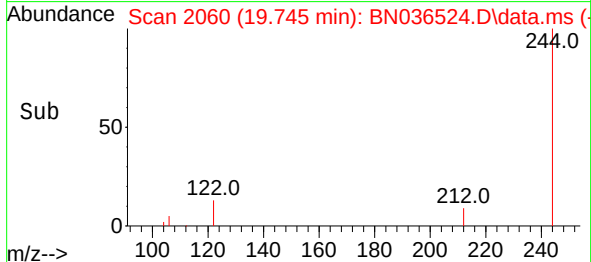
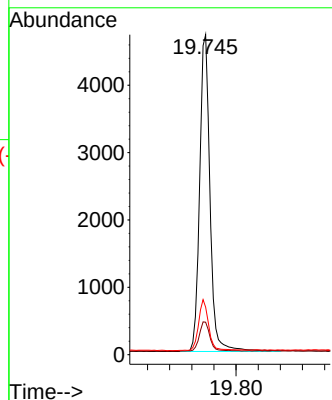


#31
 Terphenyl-d14
 Concen: 0.393 ng
 RT: 19.745 min Scan# 2065
 Delta R.T. 0.000 min
 Lab File: BN036524.D
 Acq: 05 Mar 2025 13:31

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

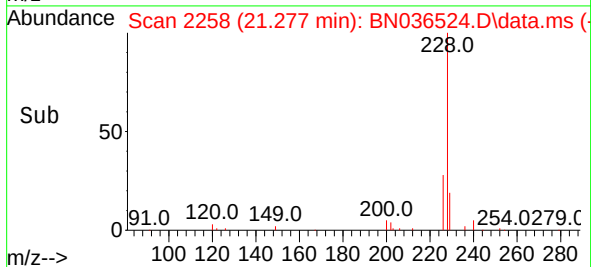
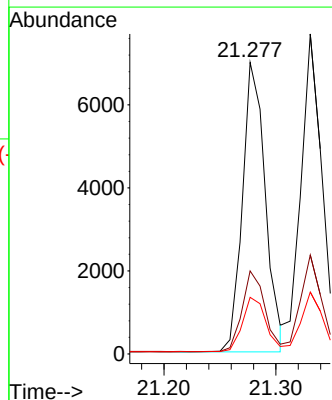
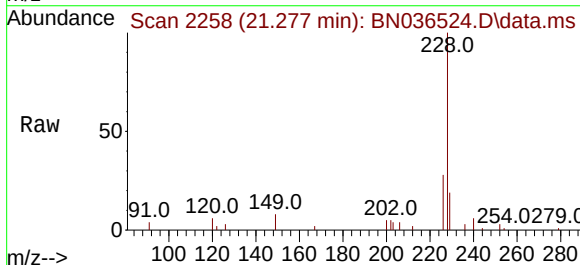


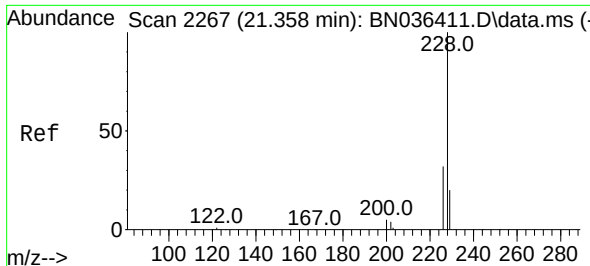
Tgt Ion:244 Resp: 6133
 Ion Ratio Lower Upper
 244 100
 212 10.1 8.1 12.1
 122 14.9 12.8 19.2



#32
 Benzo(a)anthracene
 Concen: 0.412 ng
 RT: 21.277 min Scan# 2258
 Delta R.T. 0.000 min
 Lab File: BN036524.D
 Acq: 05 Mar 2025 13:31

Tgt Ion:228 Resp: 9909
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.2 33.2
 229 19.4 16.5 24.7

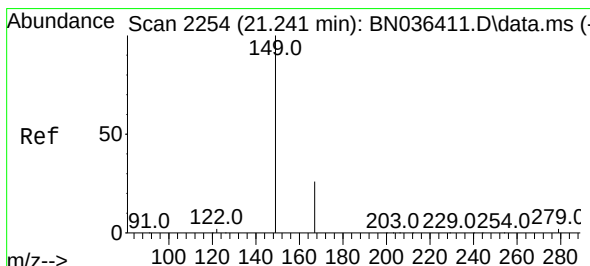
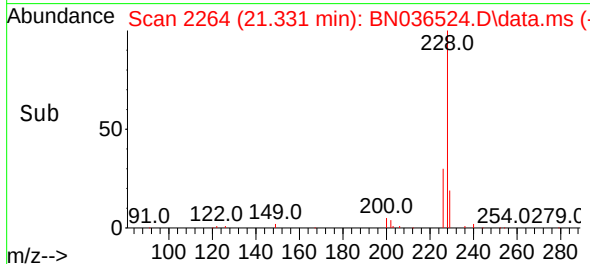
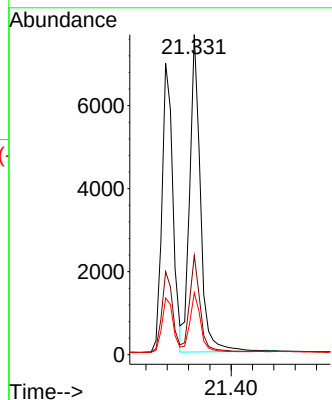
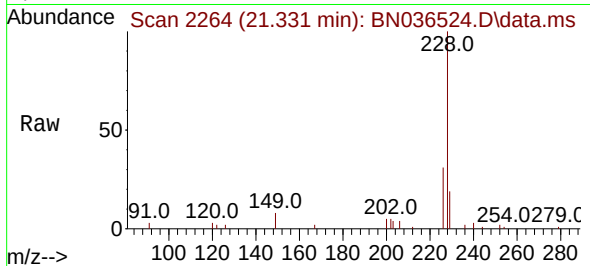




#33
Chrysene
Concen: 0.411 ng
RT: 21.331 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

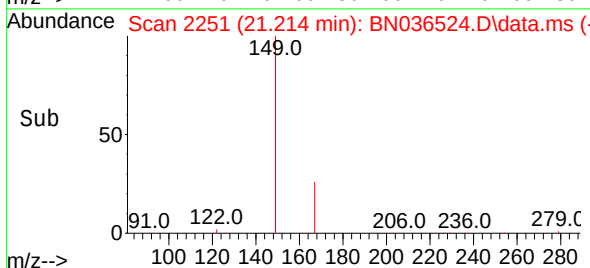
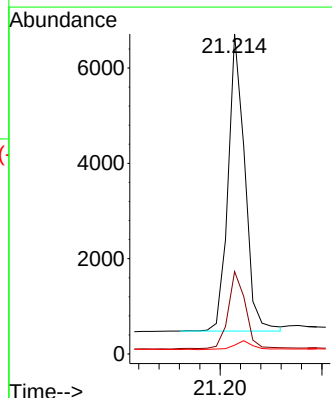
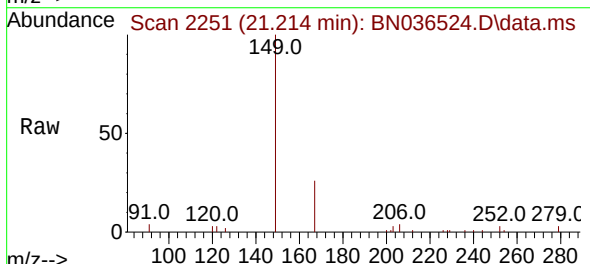
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

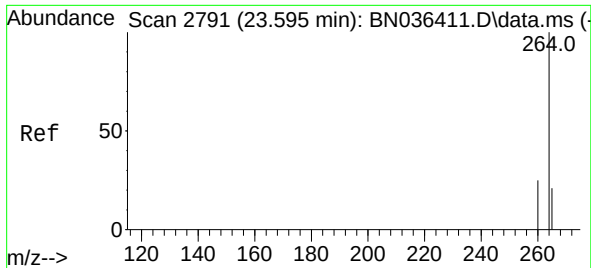
Tgt Ion:228 Resp: 10684
Ion Ratio Lower Upper
228 100
226 31.0 25.5 38.3
229 19.3 16.4 24.6



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.473 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:149 Resp: 7086
Ion Ratio Lower Upper
149 100
167 26.5 21.2 31.8
279 3.6 2.7 4.1

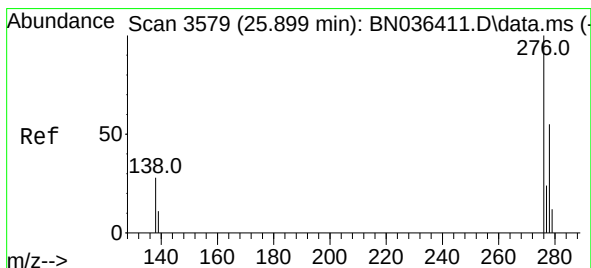
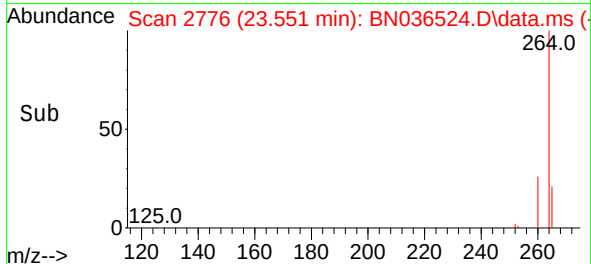
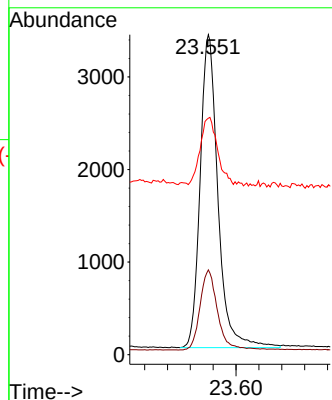
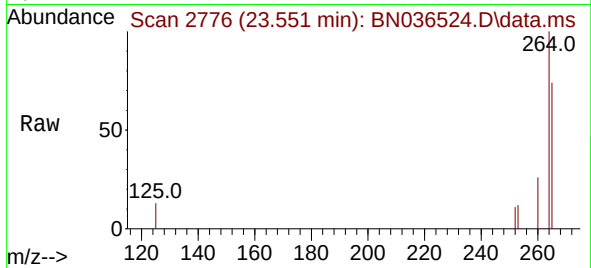




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.551 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

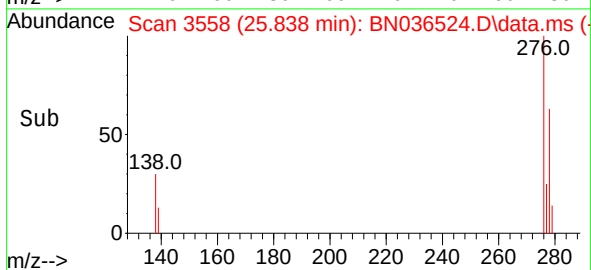
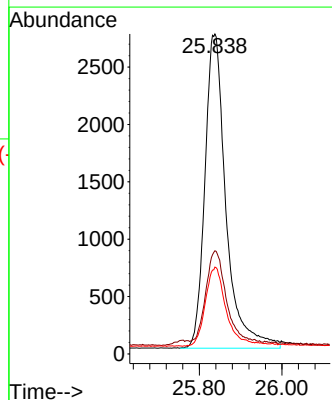
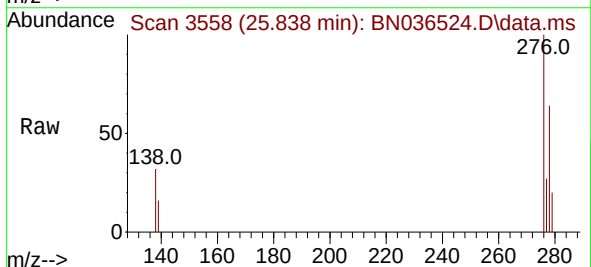
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

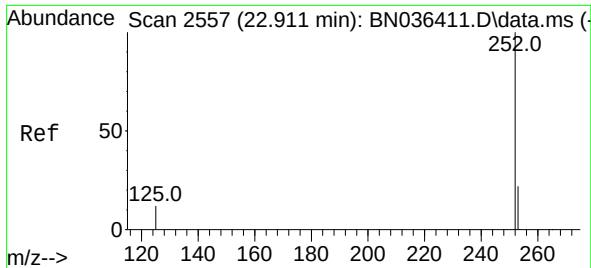
Tgt Ion:264 Resp: 7292
Ion Ratio Lower Upper
264 100
260 26.5 20.9 31.3
265 73.9 60.7 91.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.382 ng
RT: 25.838 min Scan# 3558
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:276 Resp: 9728
Ion Ratio Lower Upper
276 100
138 27.9 22.2 33.2
277 24.6 19.8 29.6

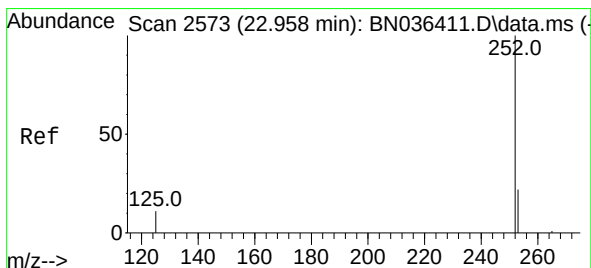
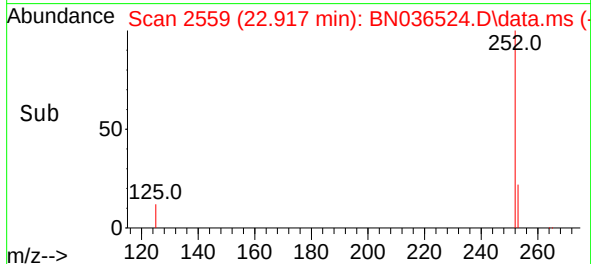
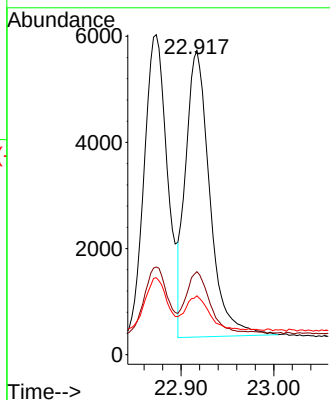
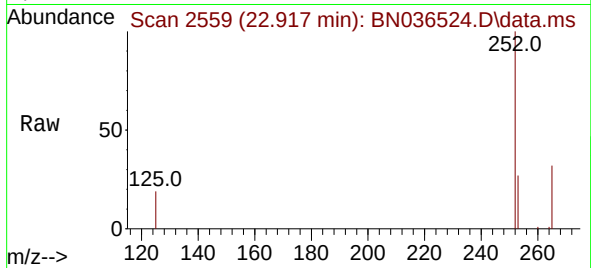




#37
Benzo(b)fluoranthene
Concen: 0.407 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.044 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

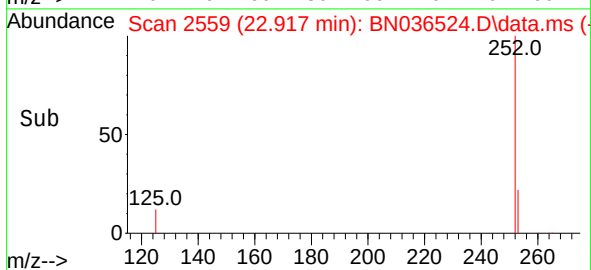
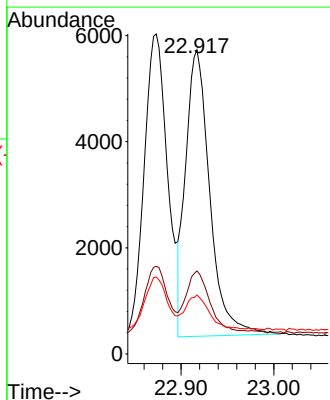
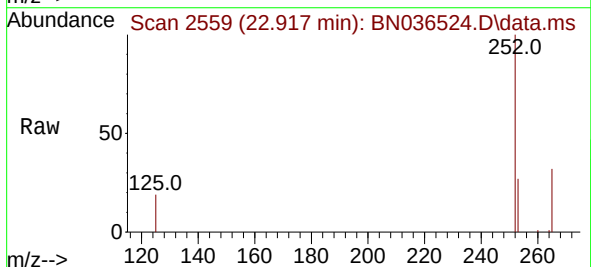
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

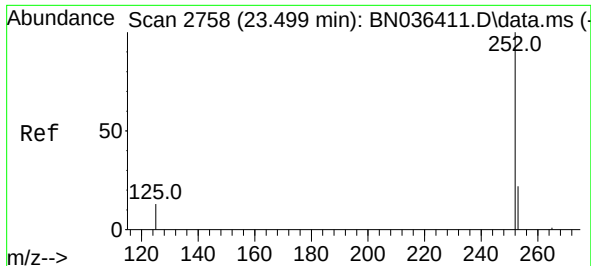
Tgt Ion:252 Resp: 9771
Ion Ratio Lower Upper
252 100
253 27.3 21.9 32.9
125 19.4 15.0 22.6



#38
Benzo(k)fluoranthene
Concen: 0.395 ng
RT: 22.917 min Scan# 2559
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Tgt Ion:252 Resp: 9771
Ion Ratio Lower Upper
252 100
253 27.3 22.2 33.4
125 19.4 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.412 ng

RT: 23.455 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036524.D

Acq: 05 Mar 2025 13:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

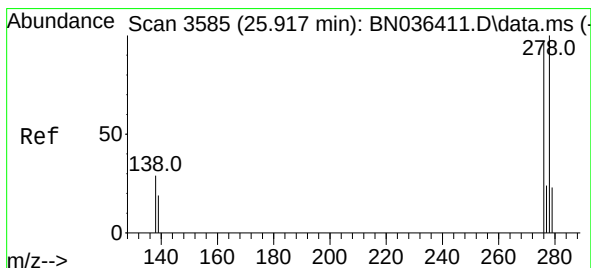
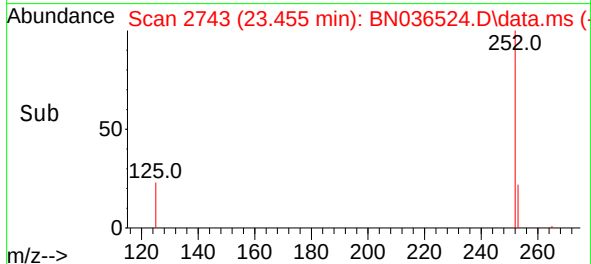
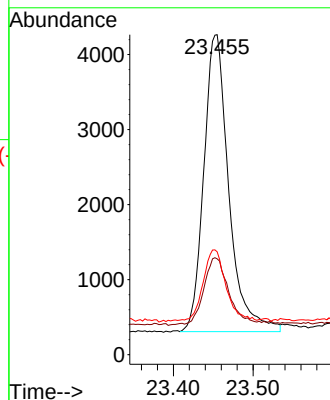
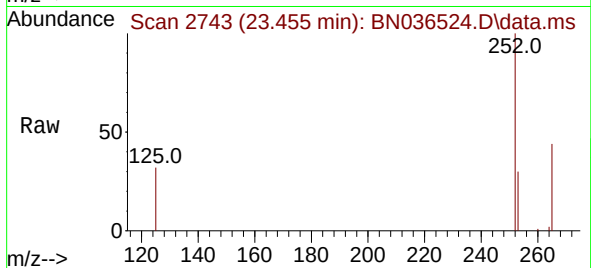
Tgt Ion:252 Resp: 8631

Ion Ratio Lower Upper

252 100

253 29.9 24.4 36.6

125 32.2 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.372 ng

RT: 25.852 min Scan# 3563

Delta R.T. 0.000 min

Lab File: BN036524.D

Acq: 05 Mar 2025 13:31

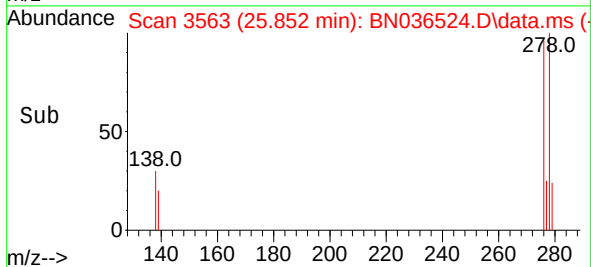
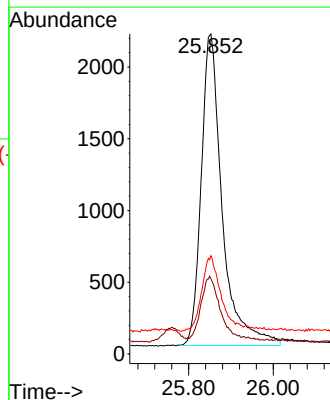
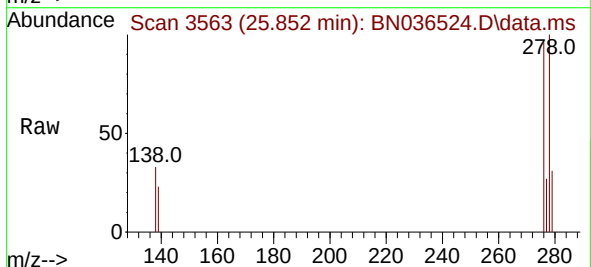
Tgt Ion:278 Resp: 7487

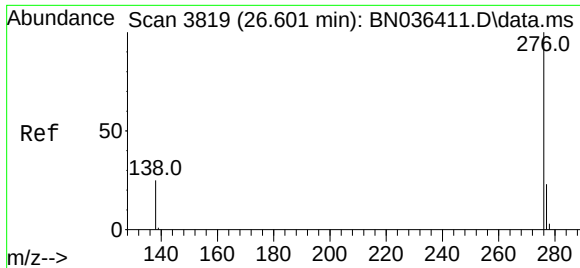
Ion Ratio Lower Upper

278 100

139 23.5 18.5 27.7

279 30.7 24.8 37.2

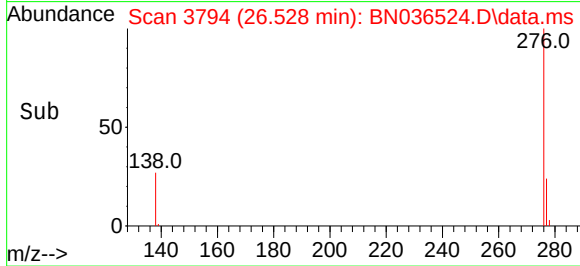
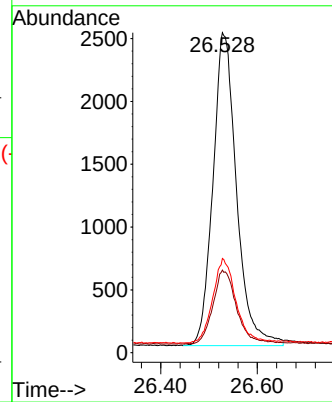
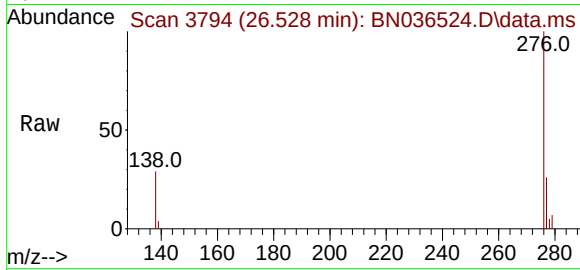




#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 26.528 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN036524.D
Acq: 05 Mar 2025 13:31

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 8456
Ion Ratio Lower Upper
276 100
277 25.8 20.7 31.1
138 29.5 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
 Data File : BN036528.D
 Acq On : 05 Mar 2025 17:30
 Operator : RC/JU
 Sample : Q1477-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP302-20250228

Quant Time: Mar 06 00:02:07 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

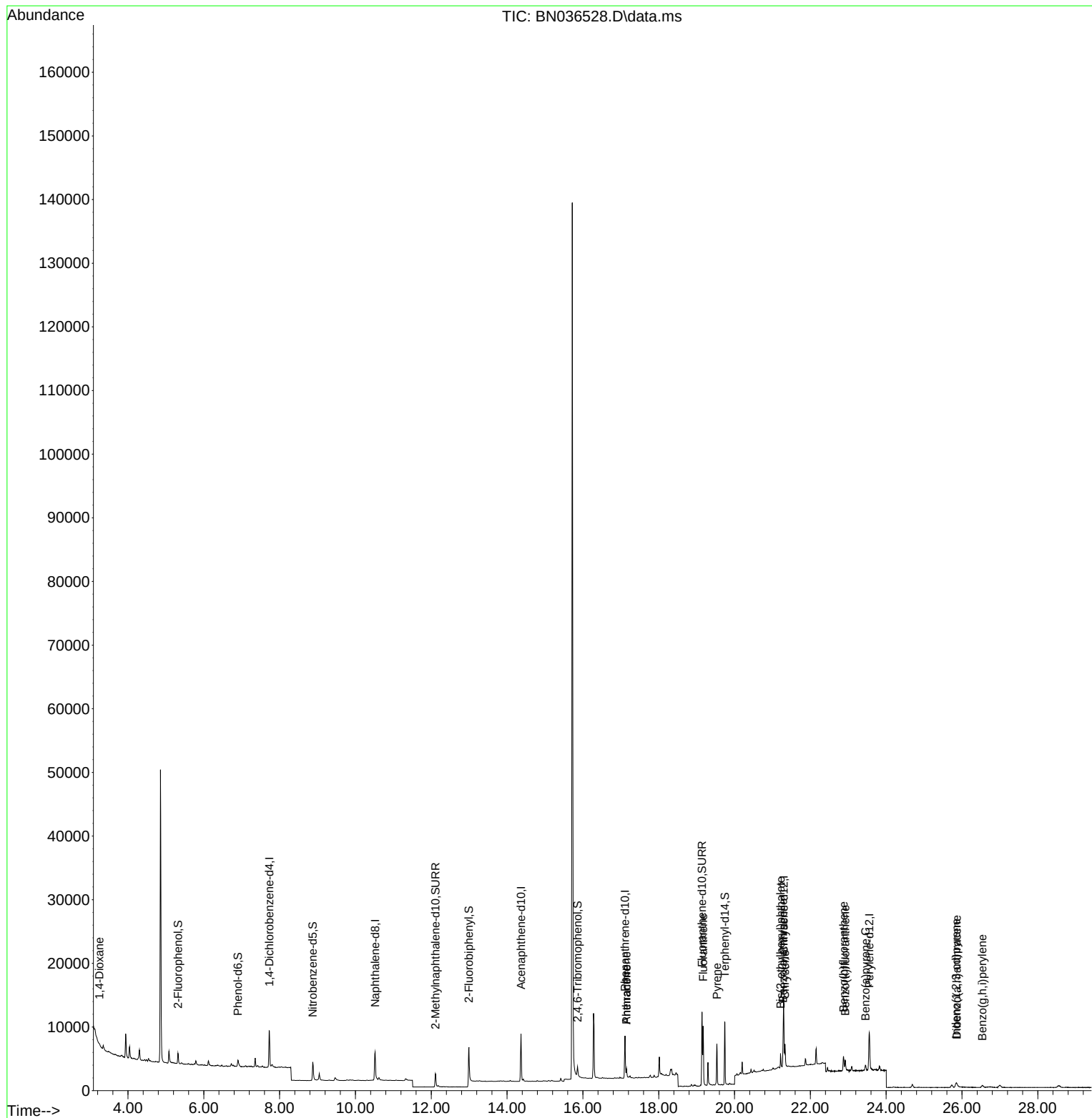
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	2903	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	6906	0.400	ng	# 0.01
13) Acenaphthene-d10	14.366	164	4230	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	8982	0.400	ng	0.00
29) Chrysene-d12	21.295	240	9606	0.400	ng	0.00
35) Perylene-d12	23.554	264	8798	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	1187	0.173	ng	0.00
5) Phenol-d6	6.901	99	825	0.102	ng	0.00
8) Nitrobenzene-d5	8.875	82	2609	0.383	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3527	0.332	ng	0.00
14) 2,4,6-Tribromophenol	15.858	330	862	0.411	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	8843	0.556	ng	0.00
27) Fluoranthene-d10	19.141	212	12661	0.507	ng	0.00
31) Terphenyl-d14	19.745	244	9769	0.476	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.247	88	129	0.041	ng	# 67
25) Phenanthrene	17.149	178	1394	0.054	ng	97
26) Anthracene	17.149	178	1394	0.061	ng	96
28) Fluoranthene	19.174	202	7659	0.240	ng	# 94
30) Pyrene	19.536	202	5566	0.150	ng	99
32) Benzo(a)anthracene	21.277	228	2403	0.076	ng	93
33) Chrysene	21.331	228	2403	0.070	ng	98
34) Bis(2-ethylhexyl)phtha...	21.214	149	2236	0.114	ng	# 93
36) Indeno(1,2,3-cd)pyrene	25.847	276	1377	0.045	ng	# 86
37) Benzo(b)fluoranthene	22.876	252	2840	0.098	ng	# 72
38) Benzo(k)fluoranthene	22.920	252	2332	0.078	ng	# 60
39) Benzo(a)pyrene	23.455	252	1362	0.054	ng	# 37
40) Dibenzo(a,h)anthracene	25.867	278	615	0.025	ng	# 16
41) Benzo(g,h,i)perylene	26.539	276	750	0.027	ng	# 60

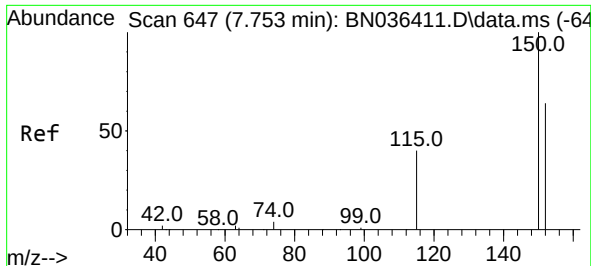
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036528.D
Acq On : 05 Mar 2025 17:30
Operator : RC/JU
Sample : Q1477-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228

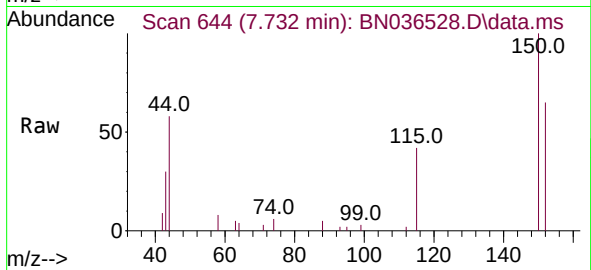
Quant Time: Mar 06 00:02:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration



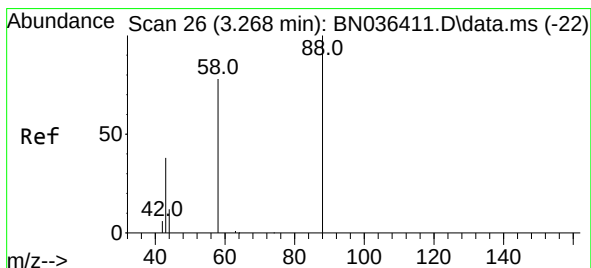
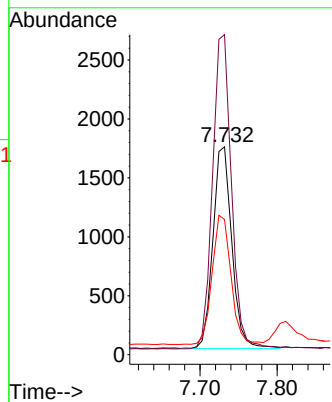
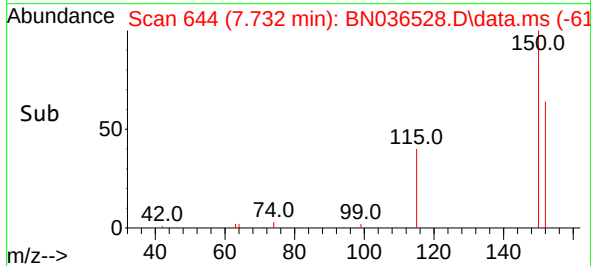


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.732 min Scan# 64
 Delta R.T. -0.000 min
 Lab File: BN036528.D
 Acq: 05 Mar 2025 17:30

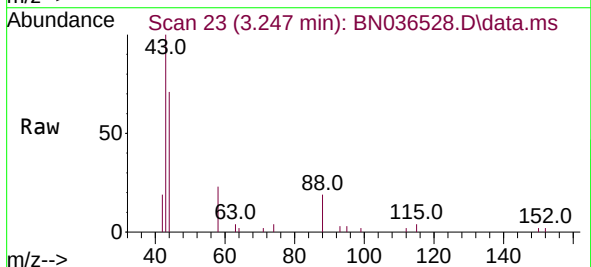
Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP302-20250228



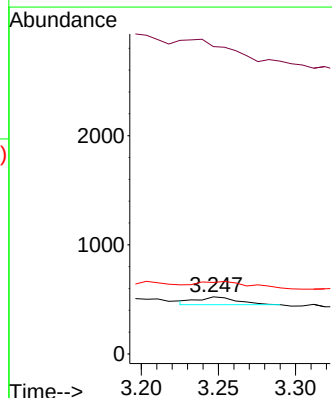
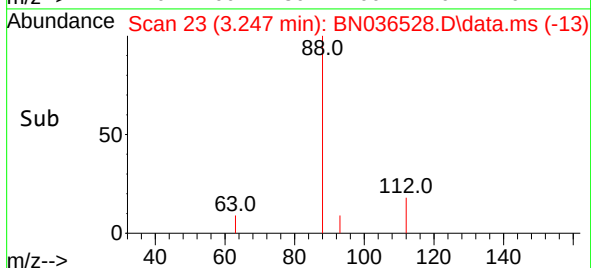
Tgt Ion:152 Resp: 2903
 Ion Ratio Lower Upper
 152 100
 150 154.0 123.7 185.5
 115 65.1 52.5 78.7

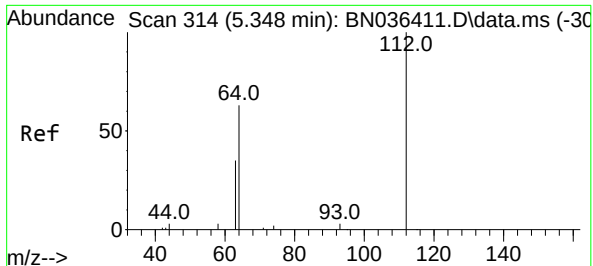


#2
 1,4-Dioxane
 Concen: 0.041 ng
 RT: 3.247 min Scan# 23
 Delta R.T. 0.000 min
 Lab File: BN036528.D
 Acq: 05 Mar 2025 17:30



Tgt Ion: 88 Resp: 129
 Ion Ratio Lower Upper
 88 100
 43 0.0 33.7 50.5#
 58 101.6 68.9 103.3





#4

2-Fluorophenol

Concen: 0.173 ng

RT: 5.319 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036528.D

Acq: 05 Mar 2025 17:30

Instrument :

BNA_N

ClientSampleId :

RW7-SP302-20250228

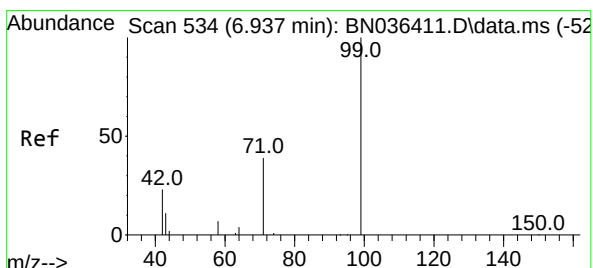
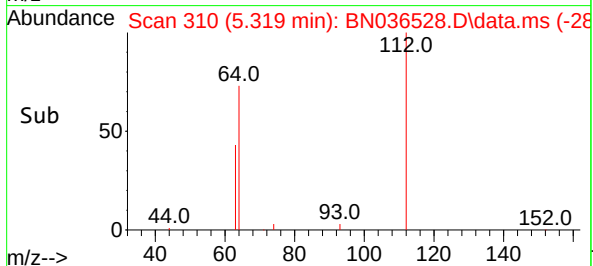
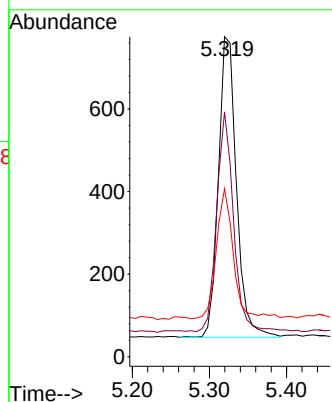
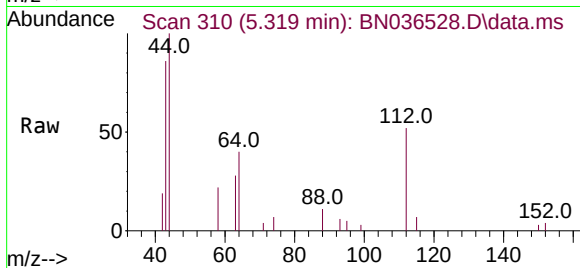
Tgt Ion:112 Resp: 1187

Ion Ratio Lower Upper

112 100

64 68.3 53.4 80.0

63 39.4 30.3 45.5



#5

Phenol-d6

Concen: 0.102 ng

RT: 6.901 min Scan# 529

Delta R.T. 0.000 min

Lab File: BN036528.D

Acq: 05 Mar 2025 17:30

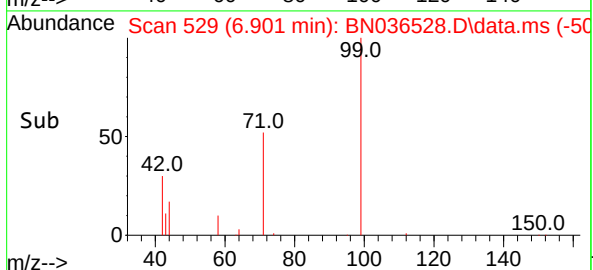
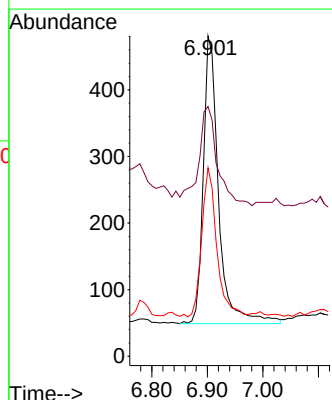
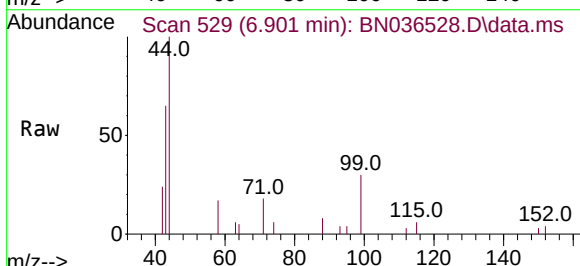
Tgt Ion: 99 Resp: 825

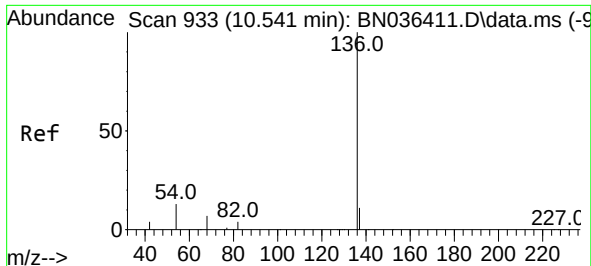
Ion Ratio Lower Upper

99 100

42 42.9 21.7 32.5#

71 50.5 32.6 49.0#

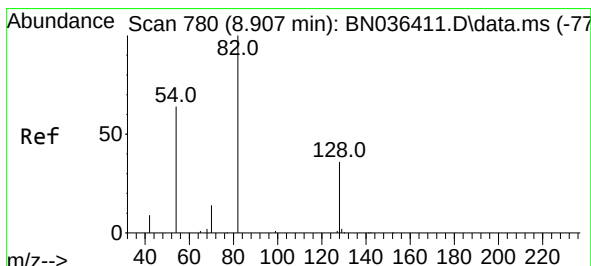
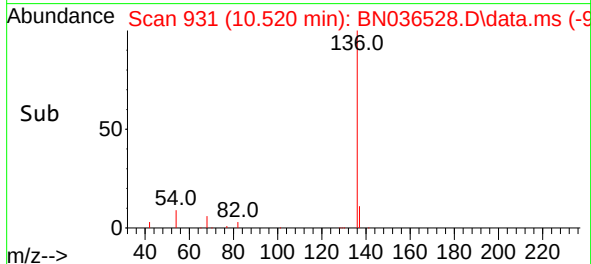
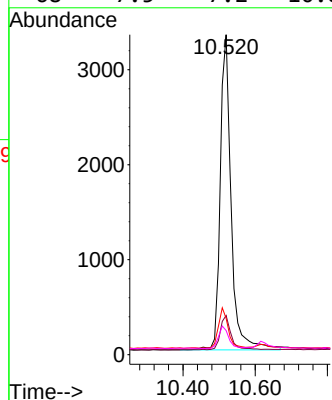
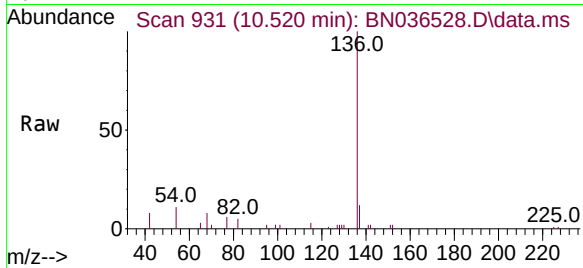




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

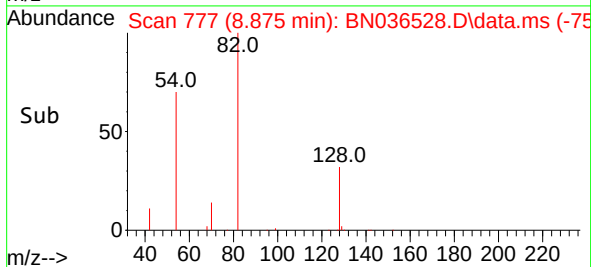
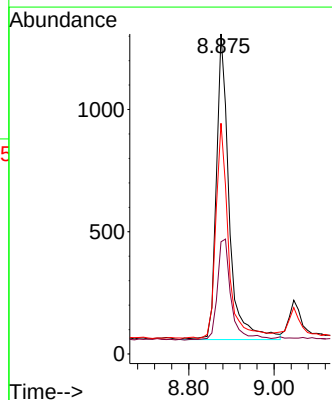
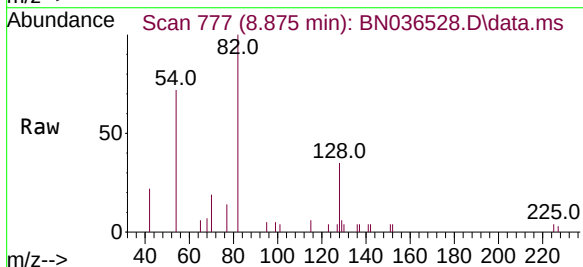
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228

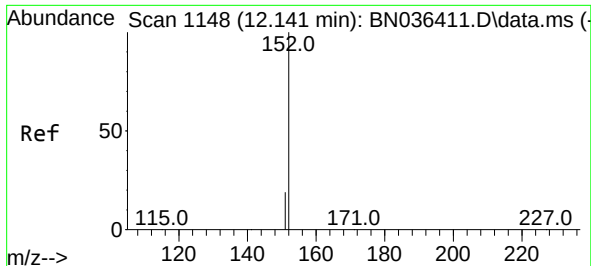
Tgt Ion:136	Resp:	6906
Ion Ratio	Lower	Upper
136	100	
137	12.2	10.1 15.1
54	11.4	11.8 17.6#
68	7.5	7.2 10.8



#8
Nitrobenzene-d5
Concen: 0.383 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

Tgt Ion: 82	Resp:	2609
Ion Ratio	Lower	Upper
82	100	
128	35.1	31.9 47.9
54	72.1	53.1 79.7

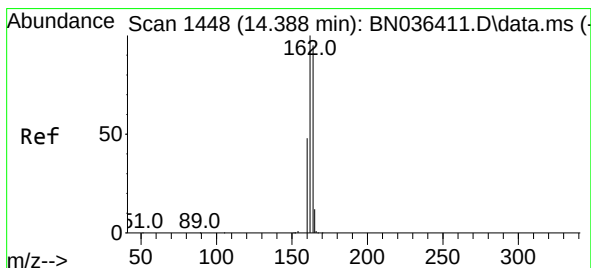
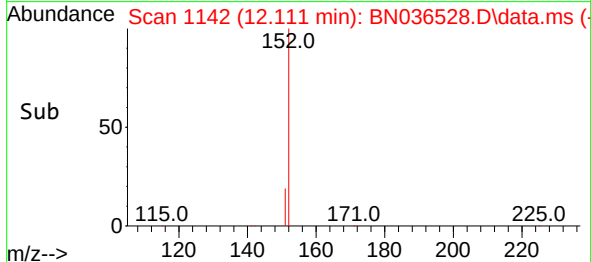
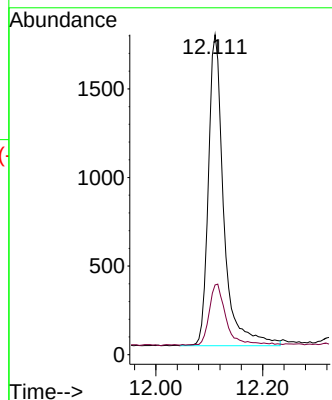
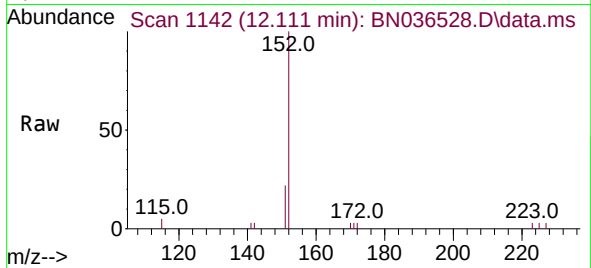




#11
2-Methylnaphthalene-d10
Concen: 0.332 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.005 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

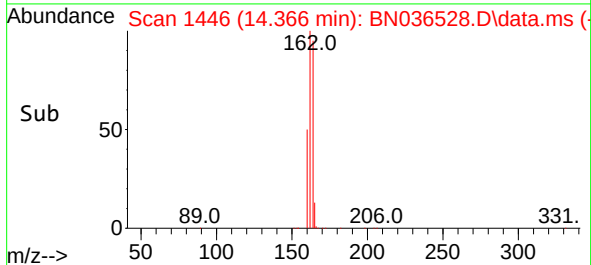
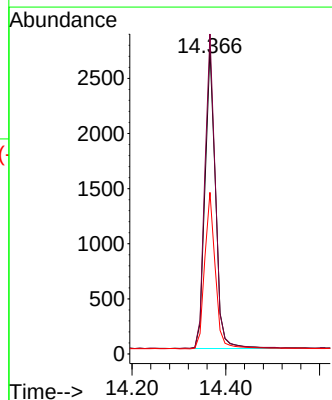
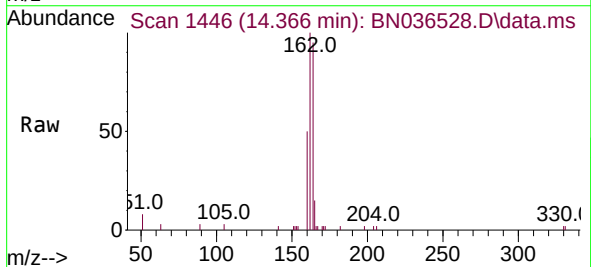
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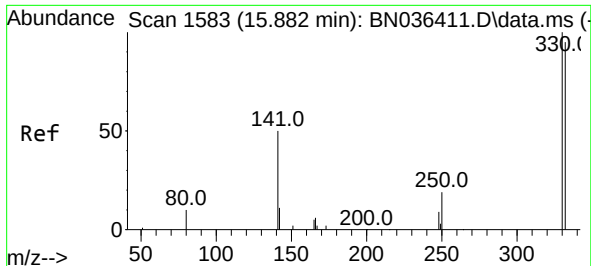
Tgt Ion:152 Resp: 3527
Ion Ratio Lower Upper
152 100
151 21.2 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

Tgt Ion:164 Resp: 4230
Ion Ratio Lower Upper
164 100
162 105.1 84.1 126.1
160 53.1 41.4 62.0

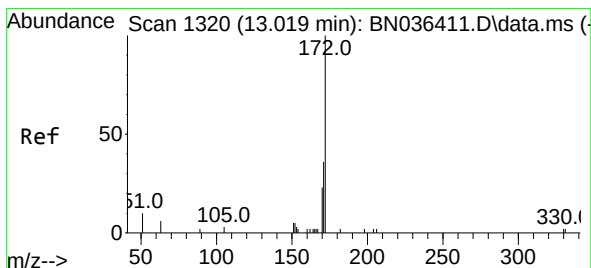
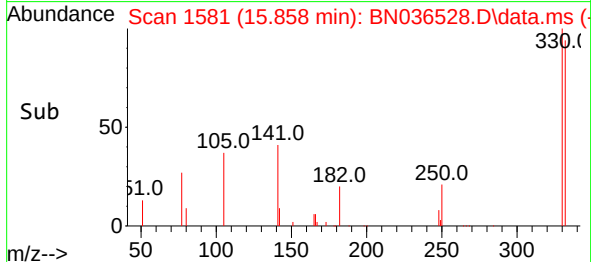
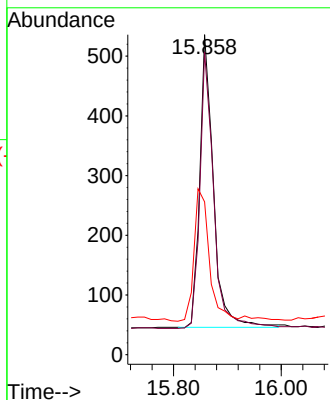
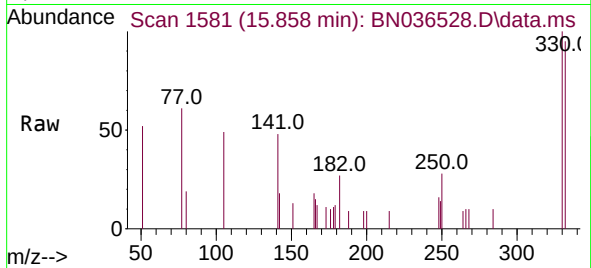




#14
 2,4,6-Tribromophenol
 Concen: 0.411 ng
 RT: 15.858 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BN036528.D
 Acq: 05 Mar 2025 17:30

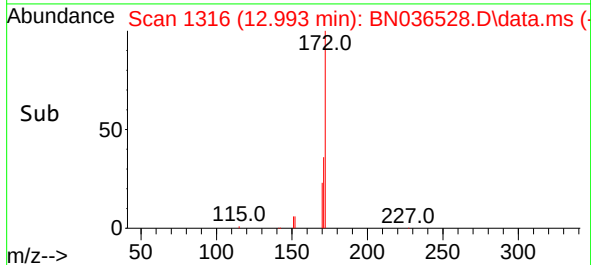
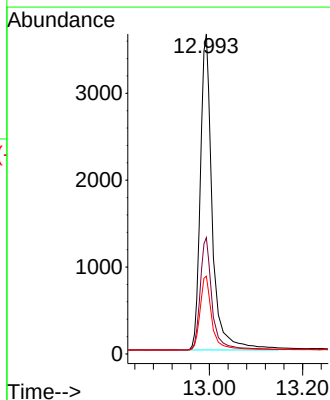
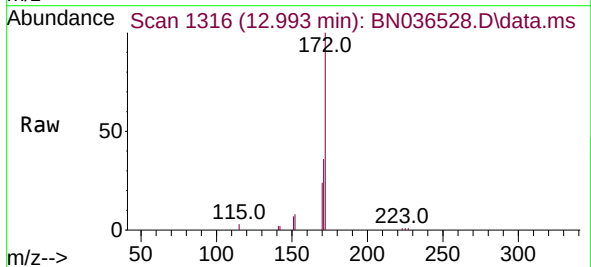
Instrument :
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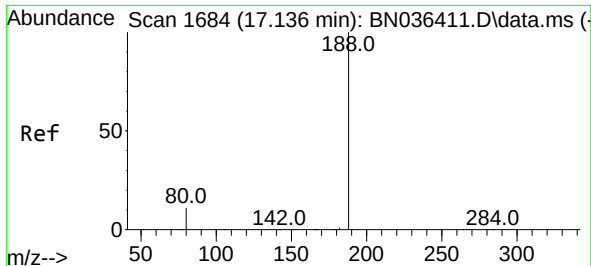
Tgt Ion:330 Resp: 862
 Ion Ratio Lower Upper
 330 100
 332 96.5 76.6 114.8
 141 50.7 37.8 56.8



#15
 2-Fluorobiphenyl
 Concen: 0.556 ng
 RT: 12.993 min Scan# 1316
 Delta R.T. 0.005 min
 Lab File: BN036528.D
 Acq: 05 Mar 2025 17:30

Tgt Ion:172 Resp: 8843
 Ion Ratio Lower Upper
 172 100
 171 36.4 29.6 44.4
 170 24.3 19.8 29.6

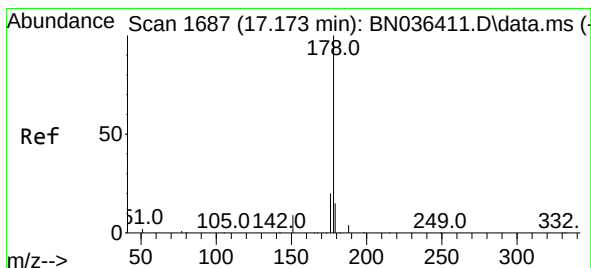
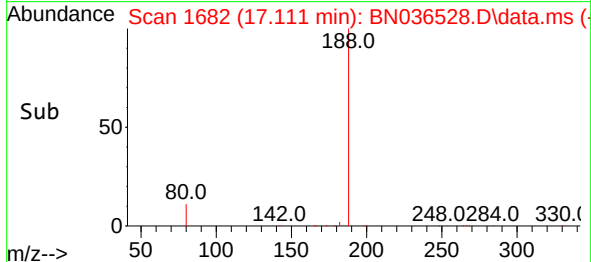
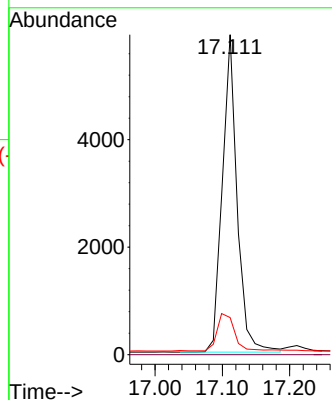
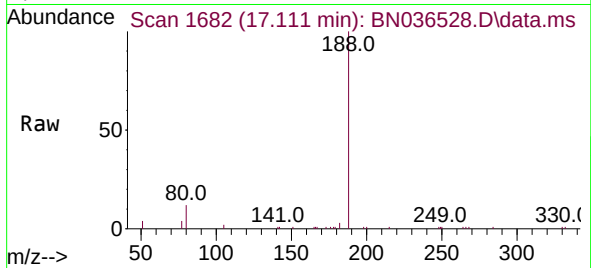




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

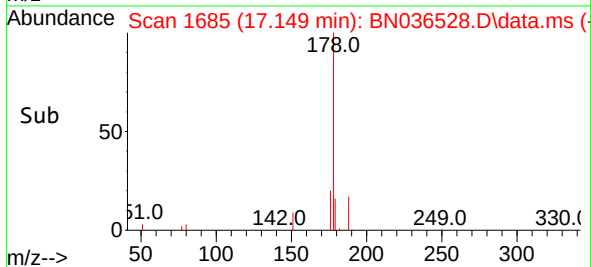
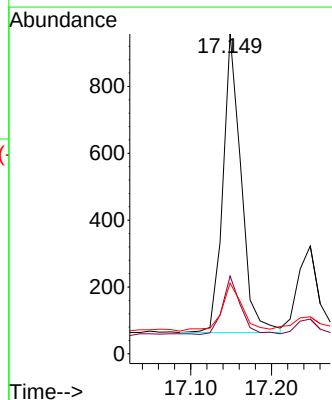
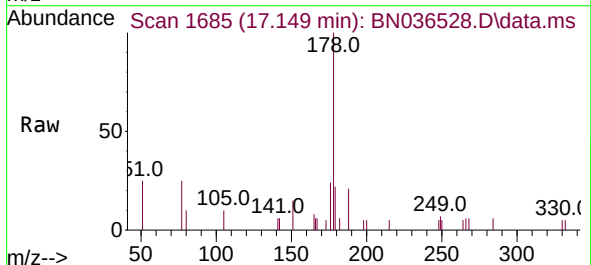
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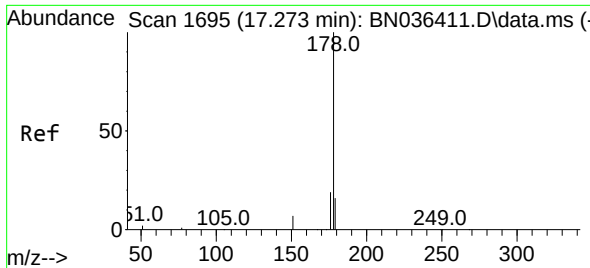
Tgt Ion:188 Resp: 8982
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.6 9.8 14.6



#25
Phenanthrene
Concen: 0.054 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

Tgt Ion:178 Resp: 1394
Ion Ratio Lower Upper
178 100
176 19.4 15.7 23.5
179 18.4 12.4 18.6

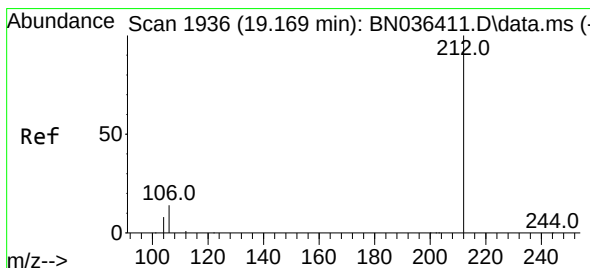
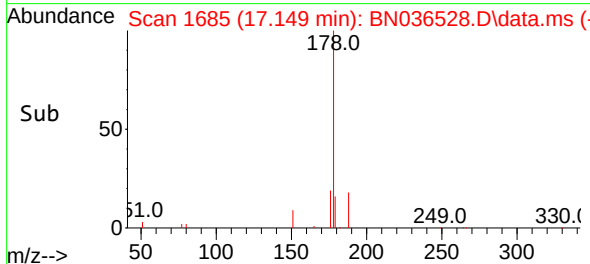
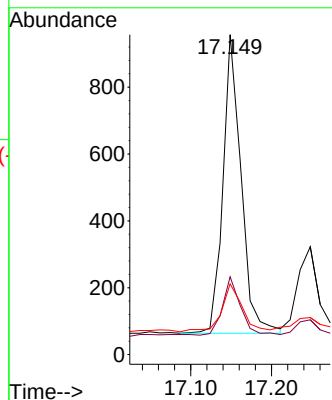
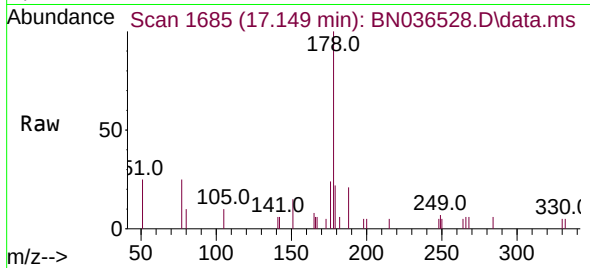




#26
 Anthracene
 Concen: 0.061 ng
 RT: 17.149 min Scan# 1685
 Delta R.T. -0.087 min
 Lab File: BN036528.D
 Acq: 05 Mar 2025 17:30

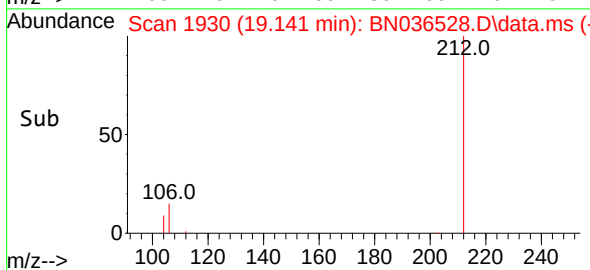
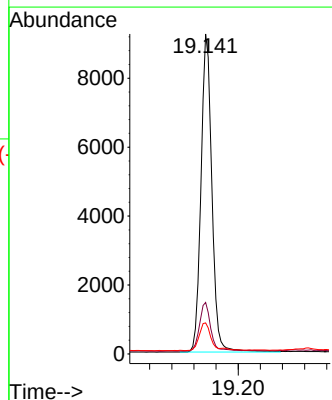
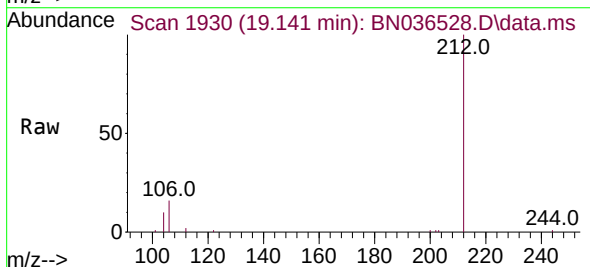
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 RW7-SP302-20250228

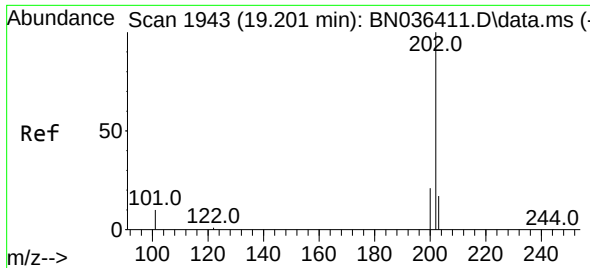
Tgt Ion:	178	Resp:	1394
Ion	Ratio	Lower	Upper
178	100		
176	19.4	14.9	22.3
179	18.4	12.4	18.6



#27
 Fluoranthene-d10
 Concen: 0.507 ng
 RT: 19.141 min Scan# 1930
 Delta R.T. 0.000 min
 Lab File: BN036528.D
 Acq: 05 Mar 2025 17:30

Tgt Ion:	212	Resp:	12661
Ion	Ratio	Lower	Upper
212	100		
106	15.6	11.5	17.3
104	9.6	7.1	10.7

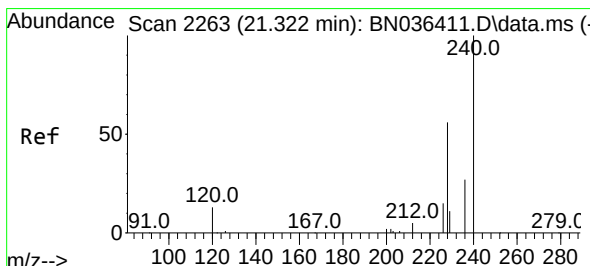
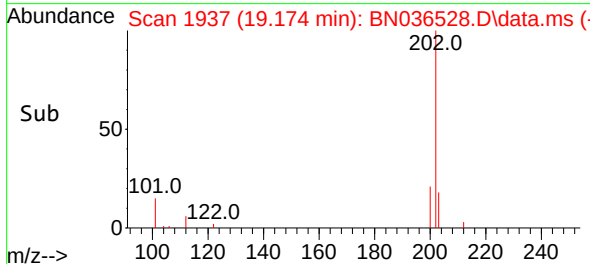
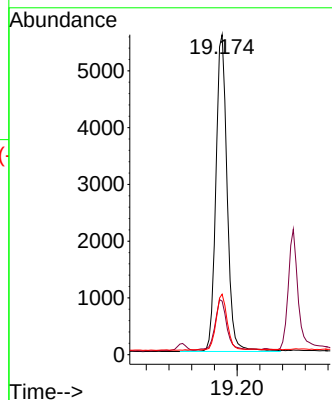
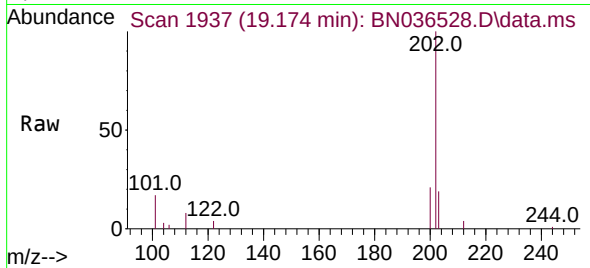




#28
 Fluoranthene
 Concen: 0.240 ng
 RT: 19.174 min Scan# 1943
 Delta R.T. 0.000 min
 Lab File: BN036528.D
 Acq: 05 Mar 2025 17:30

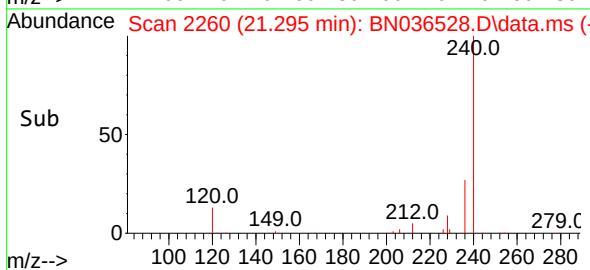
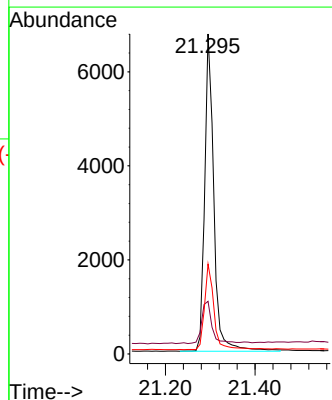
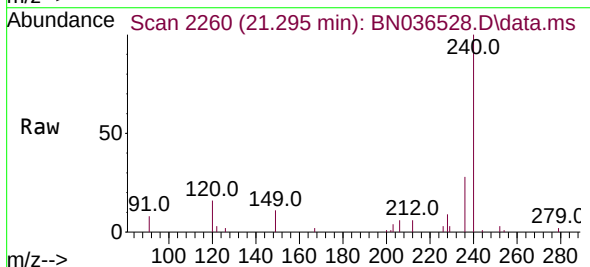
Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP302-20250228

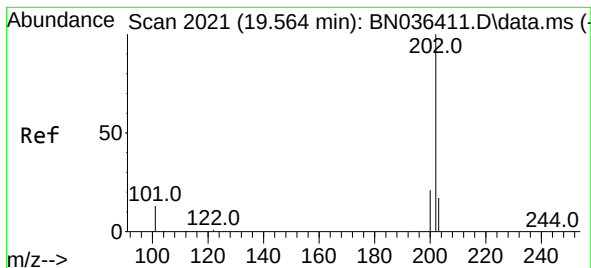
Tgt Ion:202 Resp: 7659
 Ion Ratio Lower Upper
 202 100
 101 16.7 9.2 13.8#
 203 16.9 13.4 20.0



#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.295 min Scan# 2260
 Delta R.T. 0.000 min
 Lab File: BN036528.D
 Acq: 05 Mar 2025 17:30

Tgt Ion:240 Resp: 9606
 Ion Ratio Lower Upper
 240 100
 120 16.4 13.3 19.9
 236 28.1 23.0 34.6





#30

Pyrene

Concen: 0.150 ng

RT: 19.536 min Scan# 20

Delta R.T. 0.000 min

Lab File: BN036528.D

Acq: 05 Mar 2025 17:30

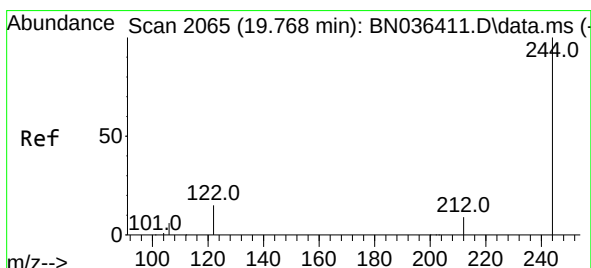
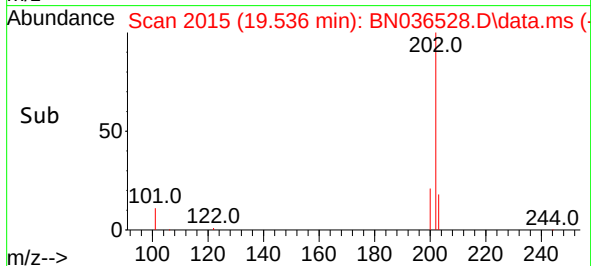
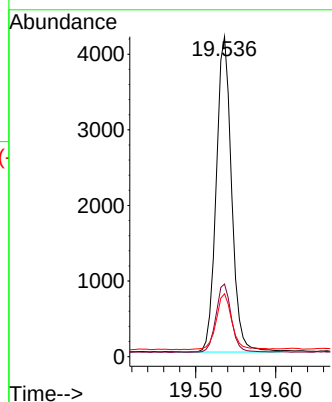
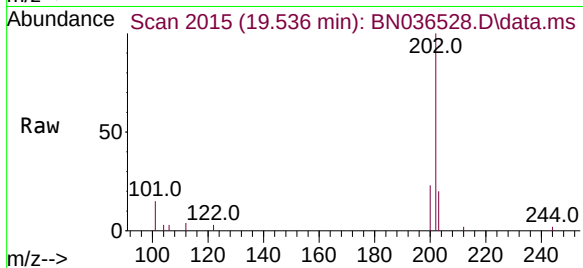
Instrument :

BNA_N

ClientSampleId :

RW7-SP302-20250228

Tgt Ion:202	Resp:	5566
Ion Ratio	Lower	Upper
202	100	
200	21.5	16.9 25.3
203	18.3	13.9 20.9



#31

Terphenyl-d14

Concen: 0.476 ng

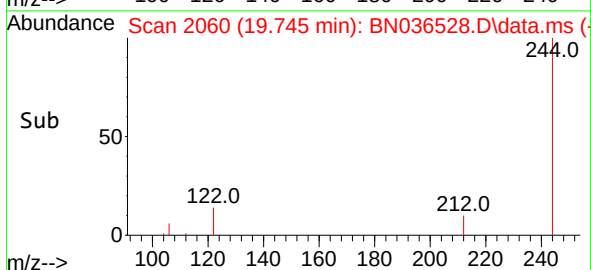
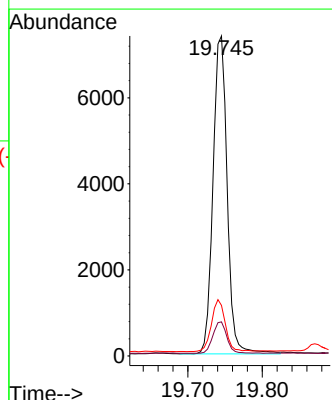
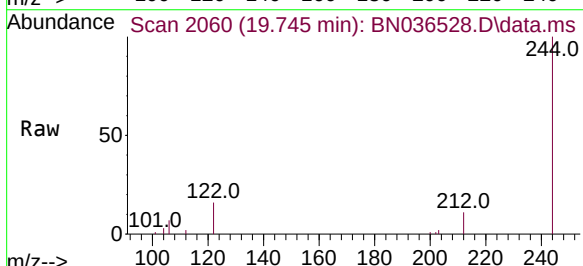
RT: 19.745 min Scan# 2060

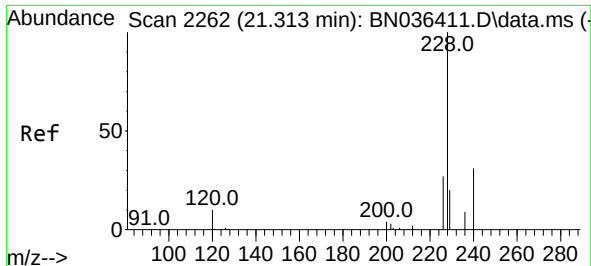
Delta R.T. 0.000 min

Lab File: BN036528.D

Acq: 05 Mar 2025 17:30

Tgt Ion:244	Resp:	9769
Ion Ratio	Lower	Upper
244	100	
212	10.7	8.1 12.1
122	15.8	12.8 19.2

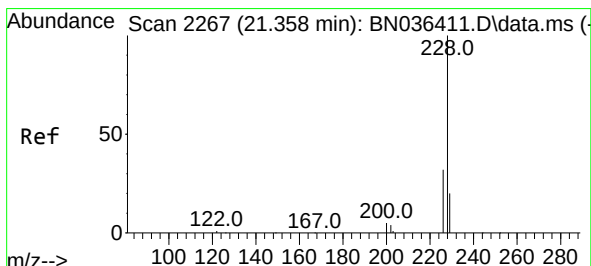
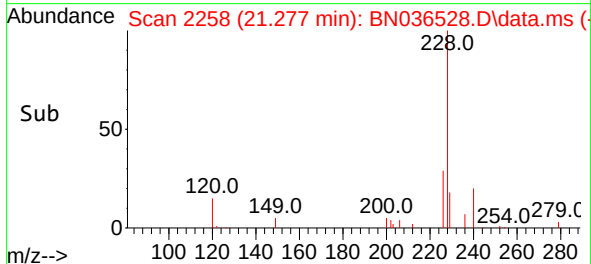
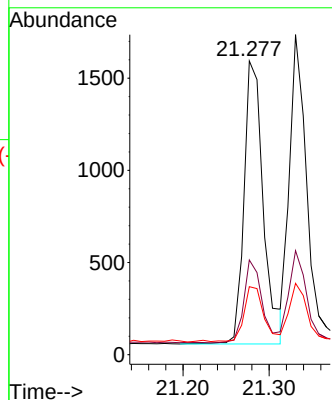
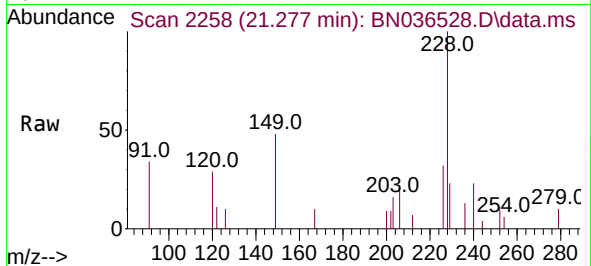




#32
Benzo(a)anthracene
Concen: 0.076 ng
RT: 21.277 min Scan# 2126
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

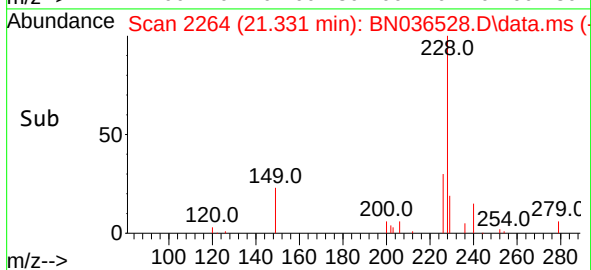
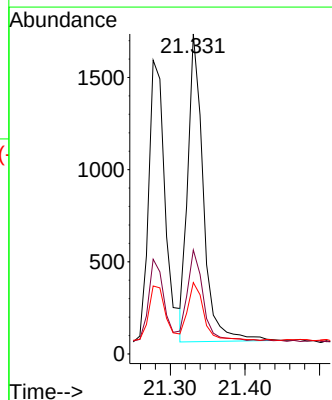
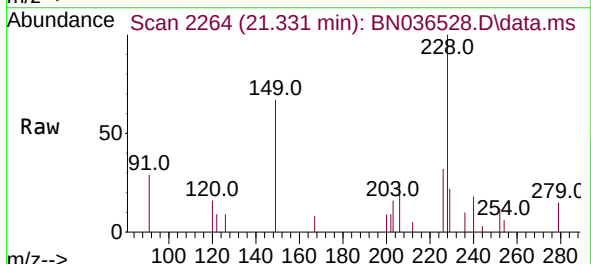
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228

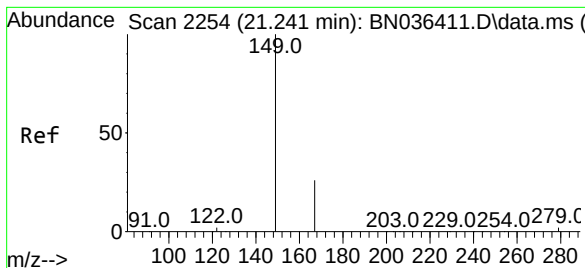
Tgt Ion:228 Resp: 2403
Ion Ratio Lower Upper
228 100
226 32.2 22.2 33.2
229 23.1 16.5 24.7



#33
Chrysene
Concen: 0.070 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

Tgt Ion:228 Resp: 2403
Ion Ratio Lower Upper
228 100
226 32.5 25.5 38.3
229 22.3 16.4 24.6

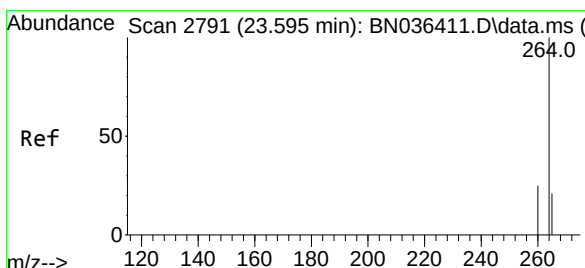
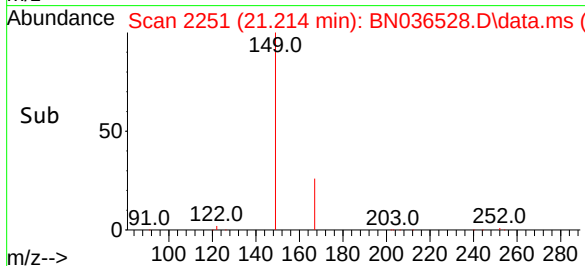
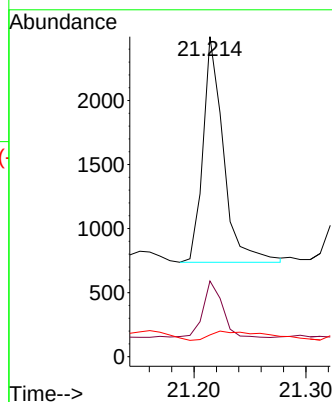
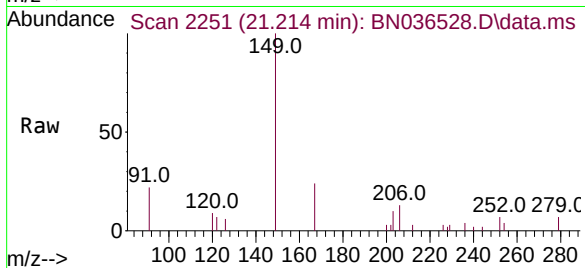




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 21.214 min Scan# 2114
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

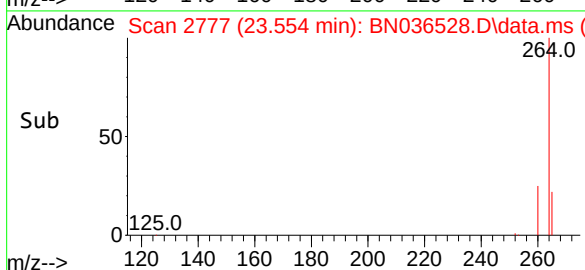
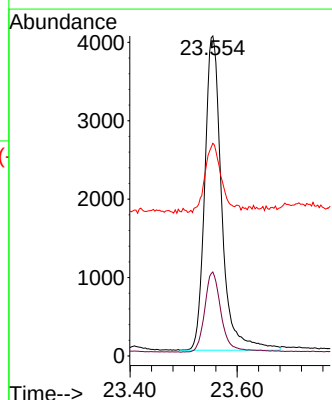
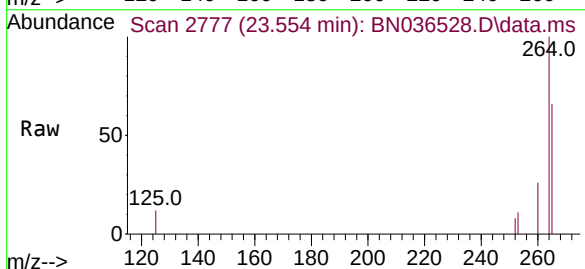
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228

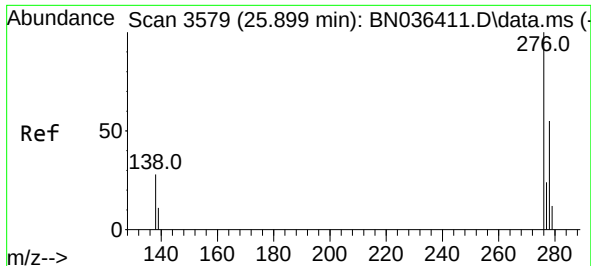
Tgt Ion:149 Resp: 2236
Ion Ratio Lower Upper
149 100
167 23.8 21.2 31.8
279 10.1 2.7 4.1#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 2777
Delta R.T. 0.003 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

Tgt Ion:264 Resp: 8798
Ion Ratio Lower Upper
264 100
260 26.3 20.9 31.3
265 66.4 60.7 91.1

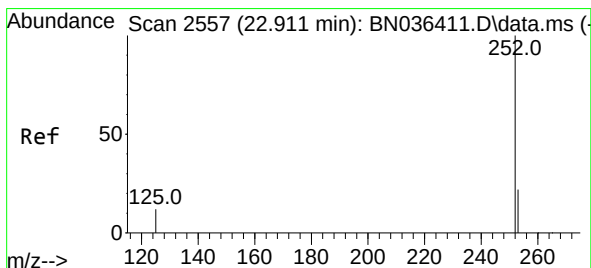
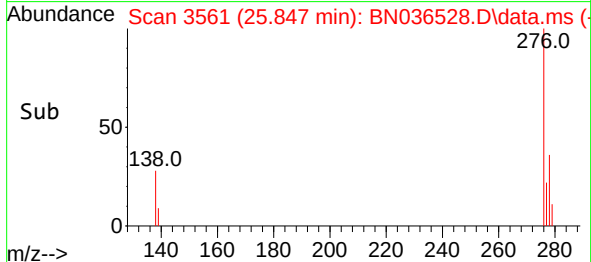
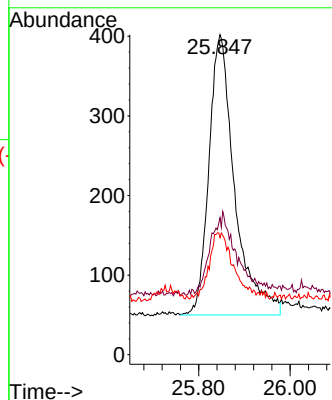
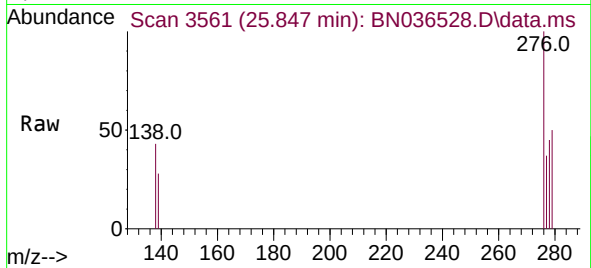




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.045 ng
RT: 25.847 min Scan# 31
Delta R.T. 0.009 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

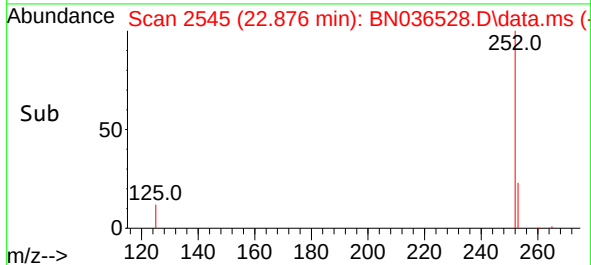
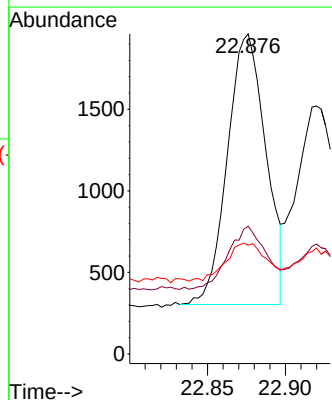
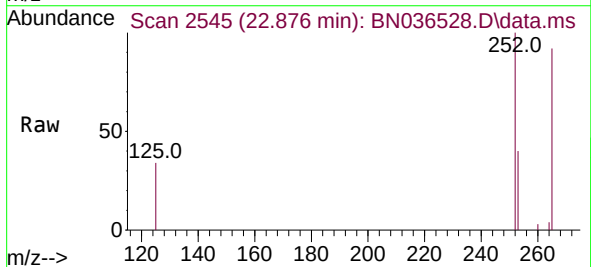
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228

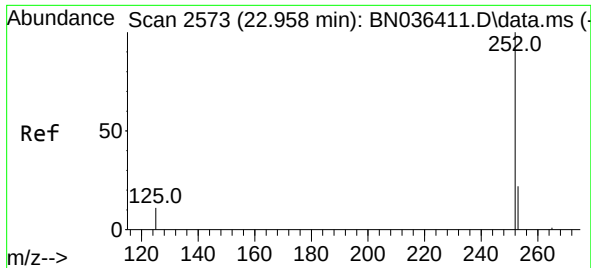
Tgt Ion:276 Resp: 1377
Ion Ratio Lower Upper
276 100
138 27.2 22.2 33.2
277 10.3 19.8 29.6#



#37
Benzo(b)fluoranthene
Concen: 0.098 ng
RT: 22.876 min Scan# 2545
Delta R.T. 0.003 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

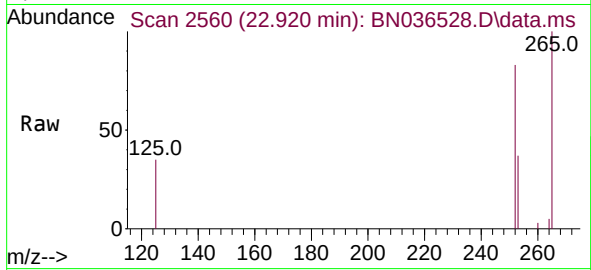
Tgt Ion:252 Resp: 2840
Ion Ratio Lower Upper
252 100
253 39.9 21.9 32.9#
125 34.0 15.0 22.6#



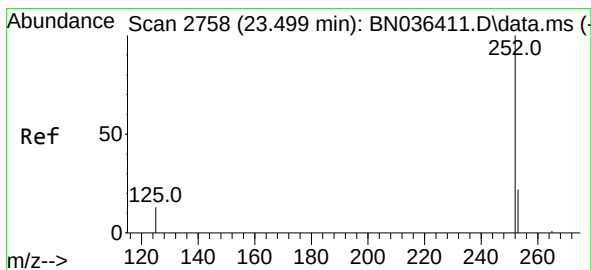
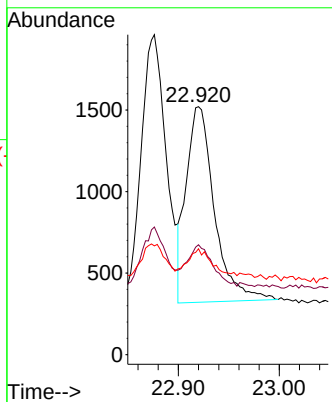


#38
Benzo(k)fluoranthene
Concen: 0.078 ng
RT: 22.920 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228

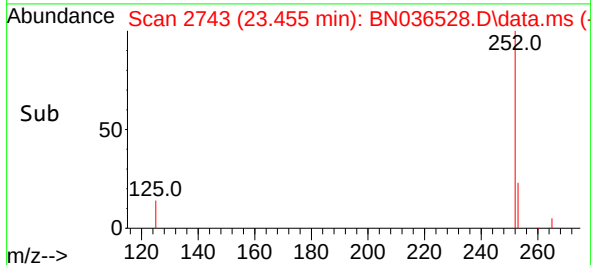
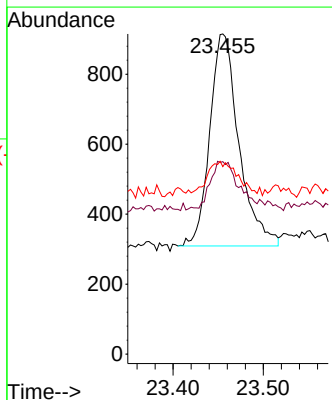
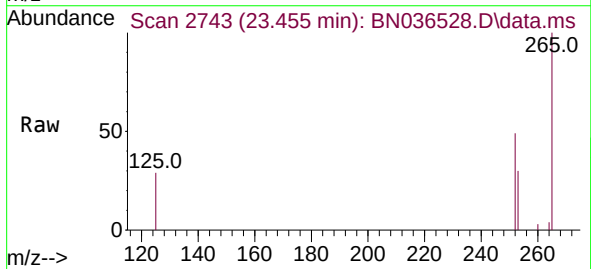


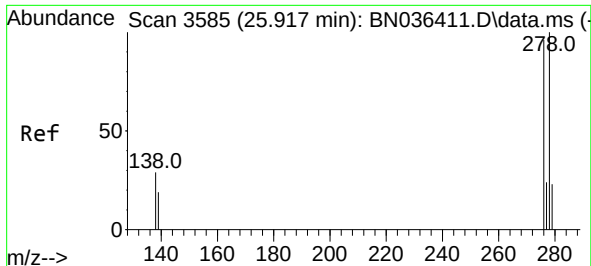
Tgt Ion:252 Resp: 2332
Ion Ratio Lower Upper
252 100
253 44.3 22.2 33.4#
125 42.7 15.0 22.4#



#39
Benzo(a)pyrene
Concen: 0.054 ng
RT: 23.455 min Scan# 2743
Delta R.T. 0.000 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

Tgt Ion:252 Resp: 1362
Ion Ratio Lower Upper
252 100
253 60.1 24.4 36.6#
125 58.6 18.2 27.2#

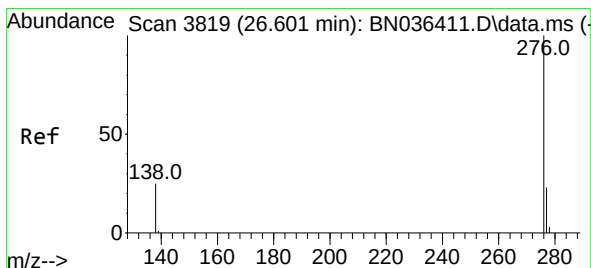
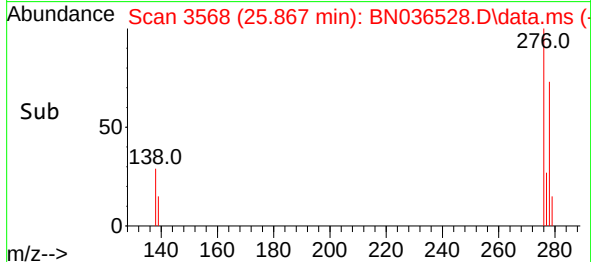
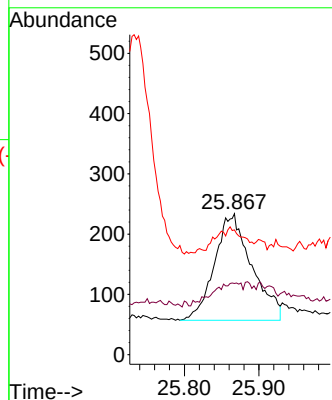
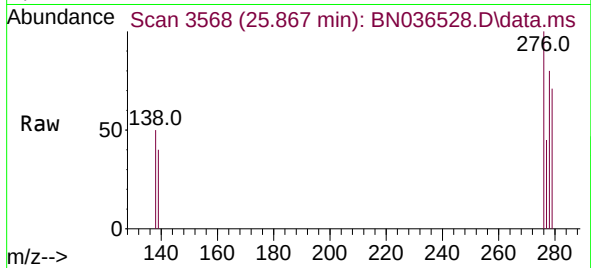




#40
Dibenzo(a,h)anthracene
Concen: 0.025 ng
RT: 25.867 min Scan# 31
Delta R.T. 0.015 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

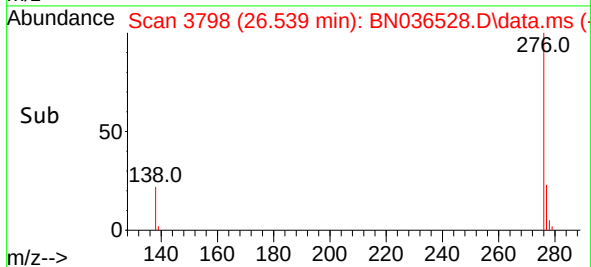
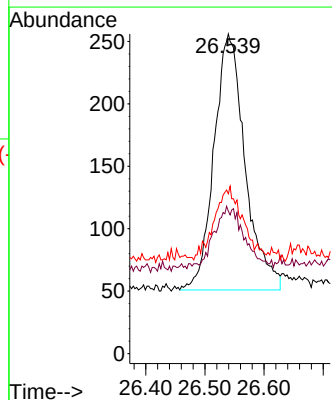
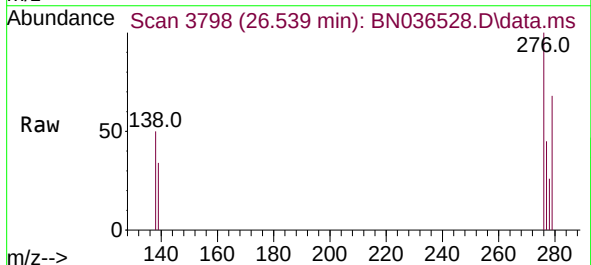
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250228

Tgt Ion:278 Resp: 615
Ion Ratio Lower Upper
278 100
139 50.4 18.5 27.7#
279 88.5 24.8 37.2#



#41
Benzo(g,h,i)perylene
Concen: 0.027 ng
RT: 26.539 min Scan# 3798
Delta R.T. 0.012 min
Lab File: BN036528.D
Acq: 05 Mar 2025 17:30

Tgt Ion:276 Resp: 750
Ion Ratio Lower Upper
276 100
277 44.5 20.7 31.1#
138 50.0 21.8 32.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
 Data File : BN036529.D
 Acq On : 05 Mar 2025 18:07
 Operator : RC/JU
 Sample : Q1477-04
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP303-20250228

Quant Time: Mar 06 00:02:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

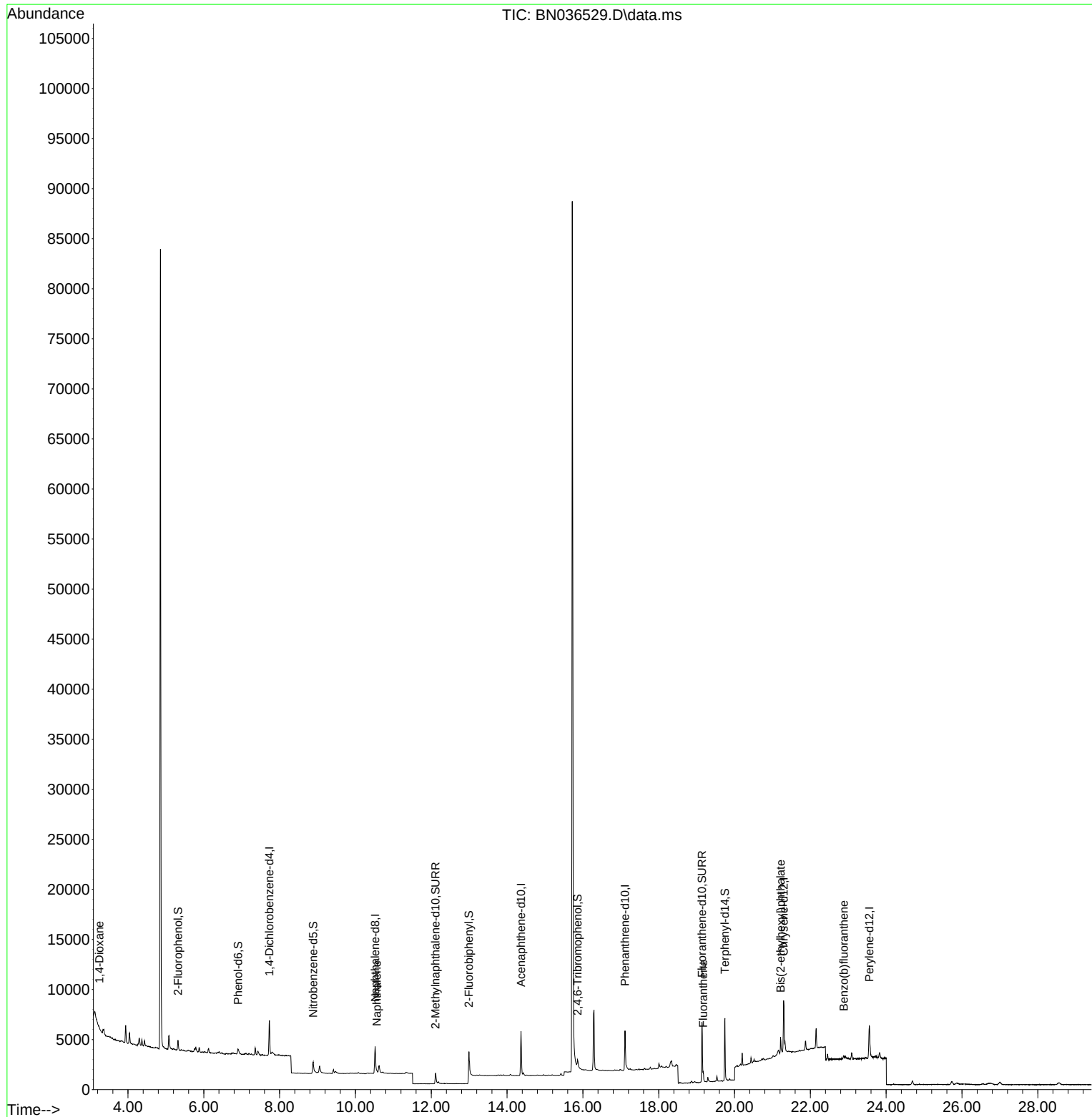
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	1825	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	4151	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2616	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5706	0.400	ng	0.00
29) Chrysene-d12	21.295	240	5791	0.400	ng	# 0.00
35) Perylene-d12	23.557	264	5265	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	708	0.164	ng	0.00
5) Phenol-d6	6.908	99	525	0.104	ng	0.00
8) Nitrobenzene-d5	8.886	82	1275	0.311	ng	0.01
11) 2-Methylnaphthalene-d10	12.116	152	1941	0.304	ng	0.01
14) 2,4,6-Tribromophenol	15.858	330	471	0.363	ng	0.00
15) 2-Fluorobiphenyl	12.993	172	4787	0.487	ng	0.00
27) Fluoranthene-d10	19.141	212	7266	0.458	ng	0.00
31) Terphenyl-d14	19.745	244	6098	0.493	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.247	88	107	0.054	ng	# 54
9) Naphthalene	10.562	128	245	0.020	ng	# 35
28) Fluoranthene	19.173	202	479	0.024	ng	# 74
34) Bis(2-ethylhexyl)phtha...	21.214	149	1753	0.148	ng	# 92
37) Benzo(b)fluoranthene	22.879	252	432	0.025	ng	# 1

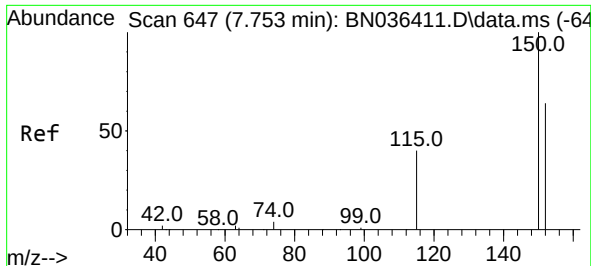
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
Data File : BN036529.D
Acq On : 05 Mar 2025 18:07
Operator : RC/JU
Sample : Q1477-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228

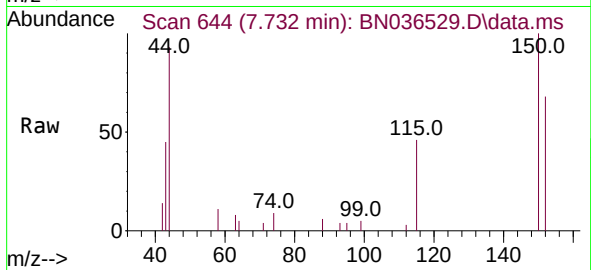
Quant Time: Mar 06 00:02:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration



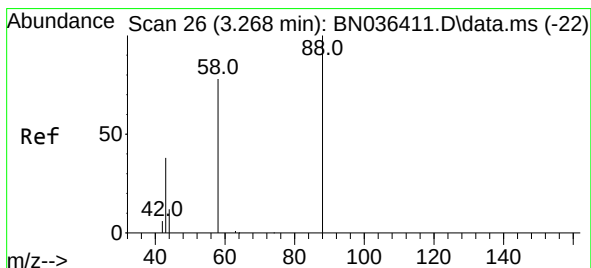
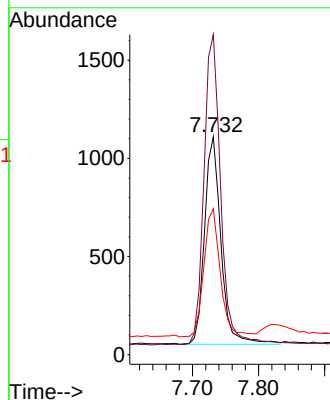
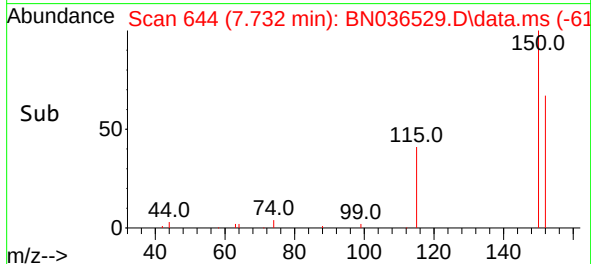


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.732 min Scan# 64
 Delta R.T. -0.000 min
 Lab File: BN036529.D
 Acq: 05 Mar 2025 18:07

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP303-20250228

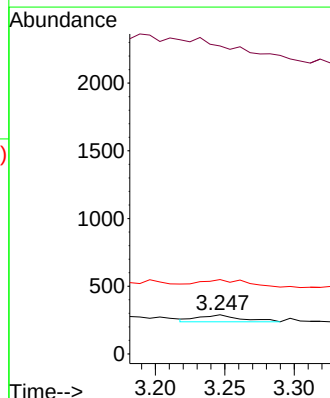
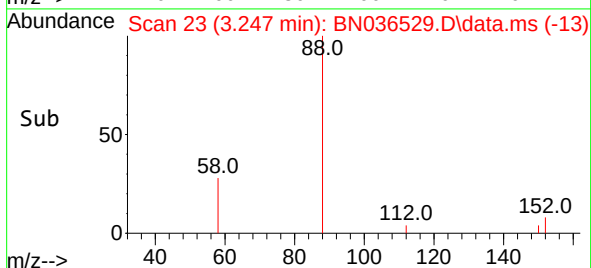
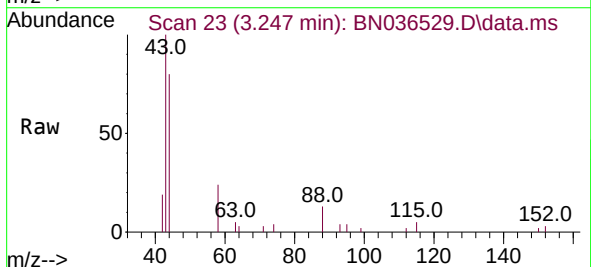


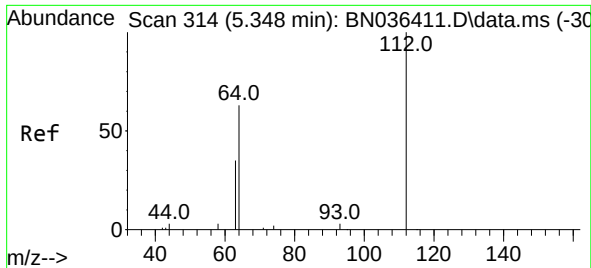
Tgt Ion:152 Resp: 1825
 Ion Ratio Lower Upper
 152 100
 150 147.0 123.7 185.5
 115 67.0 52.5 78.7



#2
 1,4-Dioxane
 Concen: 0.054 ng
 RT: 3.247 min Scan# 23
 Delta R.T. -0.000 min
 Lab File: BN036529.D
 Acq: 05 Mar 2025 18:07

Tgt Ion: 88 Resp: 107
 Ion Ratio Lower Upper
 88 100
 43 0.0 33.7 50.5#
 58 119.6 68.9 103.3#

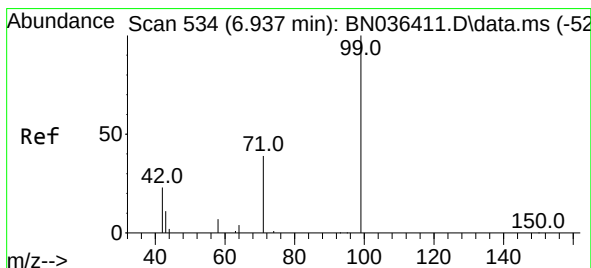
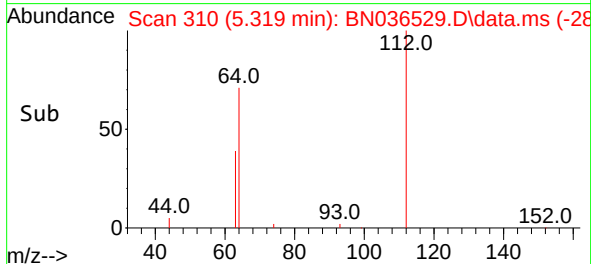
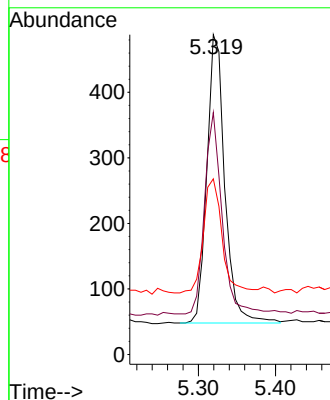
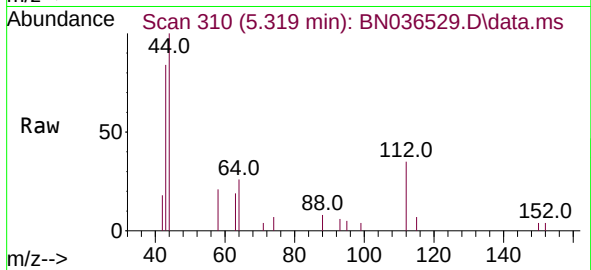




#4
2-Fluorophenol
Concen: 0.164 ng
RT: 5.319 min Scan# 314
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

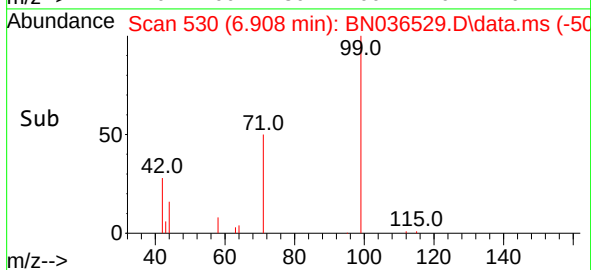
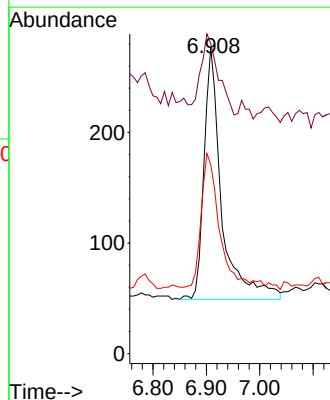
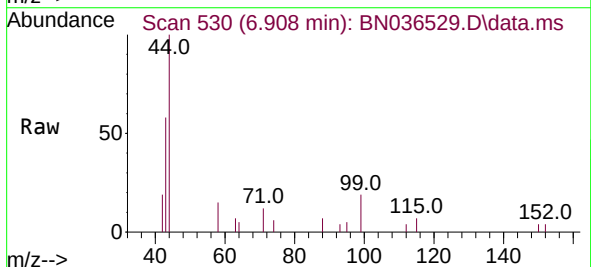
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228

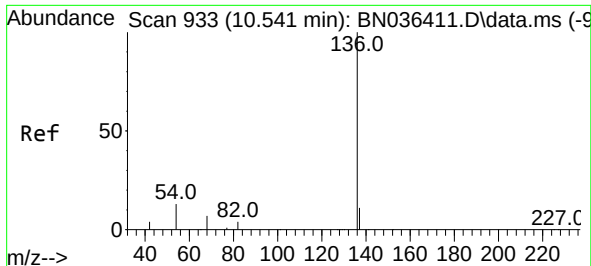
Tgt Ion:112 Resp: 708
Ion Ratio Lower Upper
112 100
64 68.5 53.4 80.0
63 42.4 30.3 45.5



#5
Phenol-d6
Concen: 0.104 ng
RT: 6.908 min Scan# 530
Delta R.T. 0.007 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

Tgt Ion: 99 Resp: 525
Ion Ratio Lower Upper
99 100
42 31.2 21.7 32.5
71 53.0 32.6 49.0#

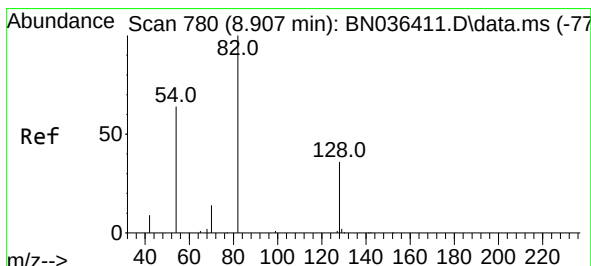
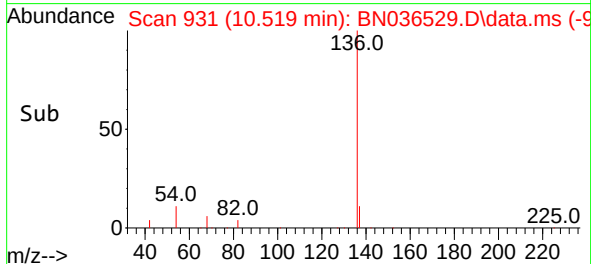
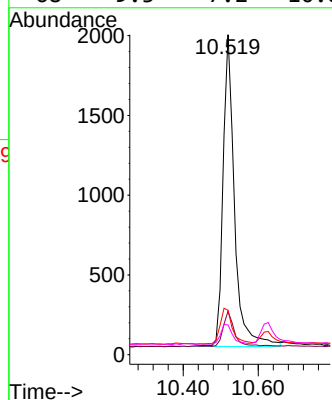
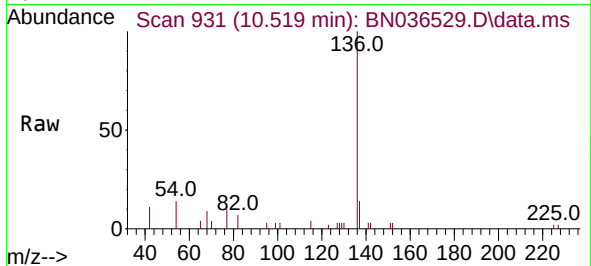




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

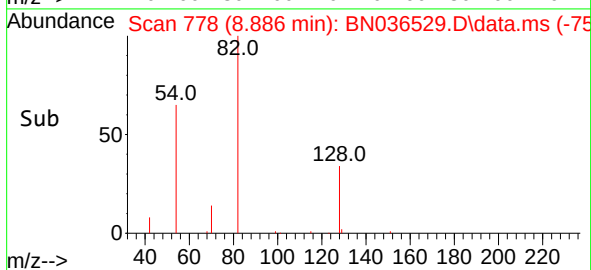
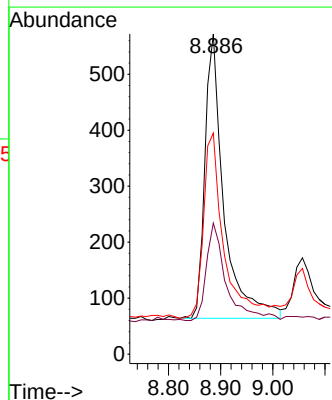
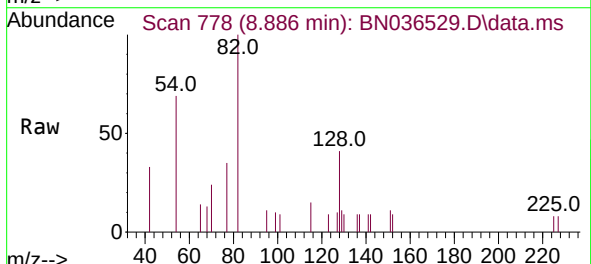
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228

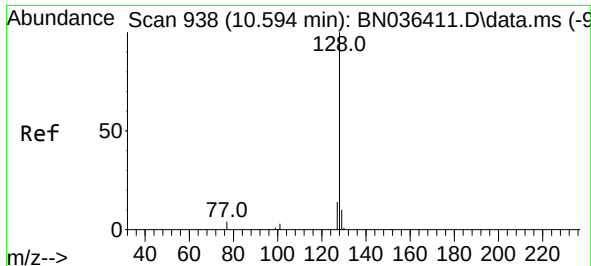
Tgt Ion:	136	Resp:	4151
Ion	Ratio	Lower	Upper
136	100		
137	13.6	10.1	15.1
54	13.9	11.8	17.6
68	9.3	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.311 ng
RT: 8.886 min Scan# 778
Delta R.T. 0.011 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

Tgt Ion:	82	Resp:	1275
Ion	Ratio	Lower	Upper
82	100		
128	40.9	31.9	47.9
54	69.1	53.1	79.7

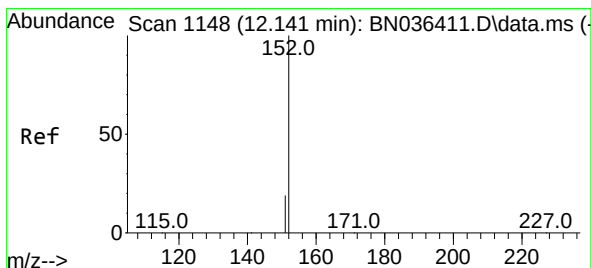
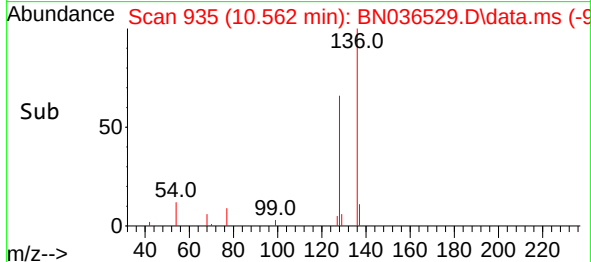
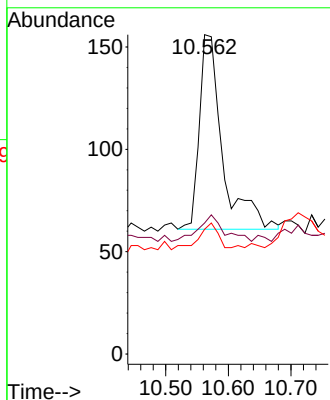
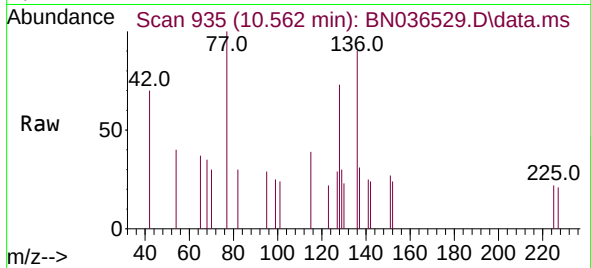




#9
Naphthalene
Concen: 0.020 ng
RT: 10.562 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

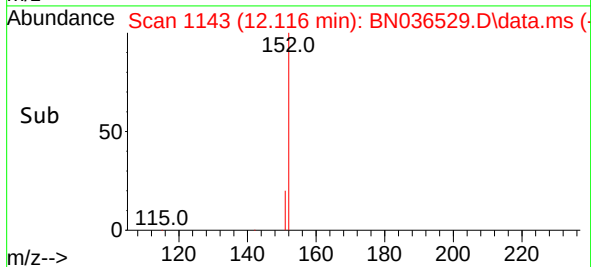
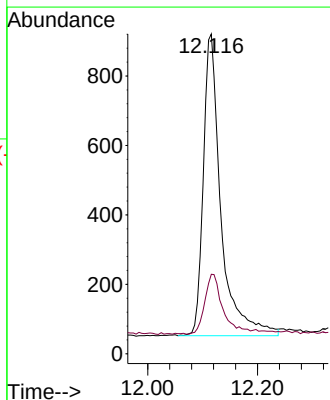
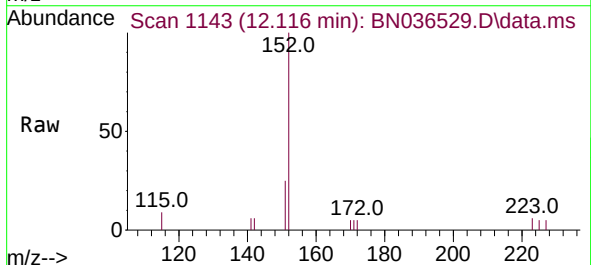
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228

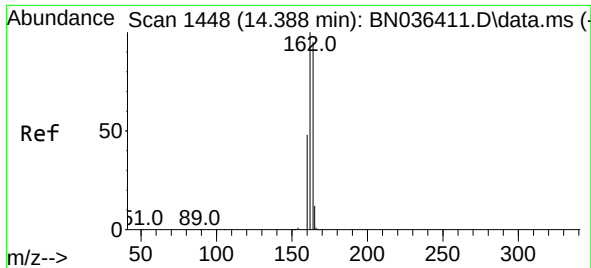
Tgt Ion:128 Resp: 245
Ion Ratio Lower Upper
128 100
129 41.0 9.6 14.4#
127 39.1 12.0 18.0#



#11
2-Methylnaphthalene-d10
Concen: 0.304 ng
RT: 12.116 min Scan# 1143
Delta R.T. 0.010 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

Tgt Ion:152 Resp: 1941
Ion Ratio Lower Upper
152 100
151 20.3 16.6 25.0

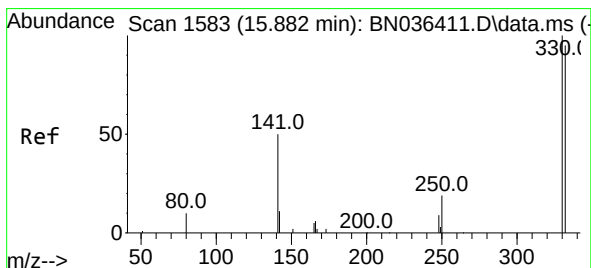
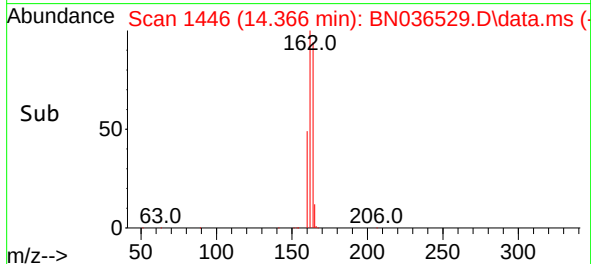
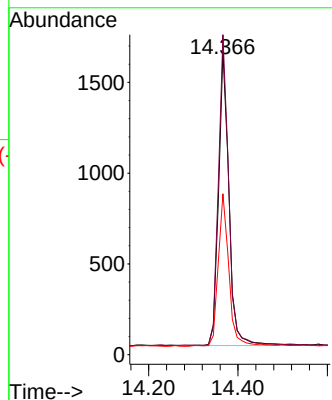
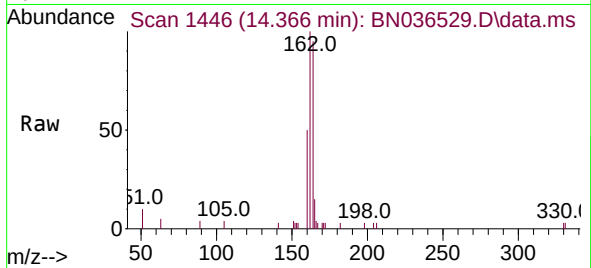




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

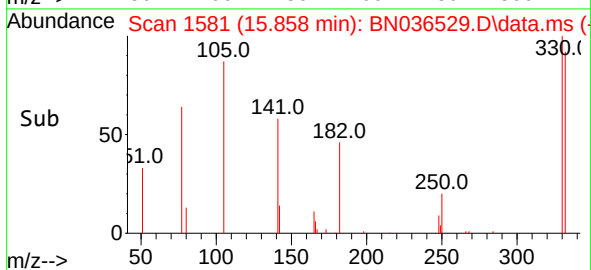
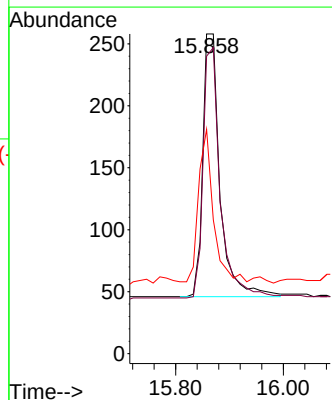
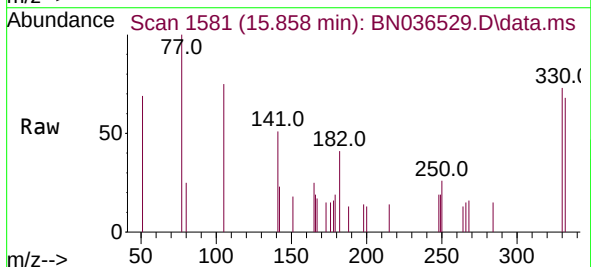
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228

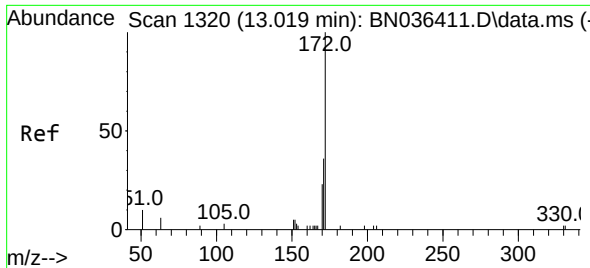
Tgt Ion:164 Resp: 2616
Ion Ratio Lower Upper
164 100
162 105.6 84.1 126.1
160 53.1 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.363 ng
RT: 15.858 min Scan# 1581
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

Tgt Ion:330 Resp: 471
Ion Ratio Lower Upper
330 100
332 95.5 76.6 114.8
141 50.1 37.8 56.8

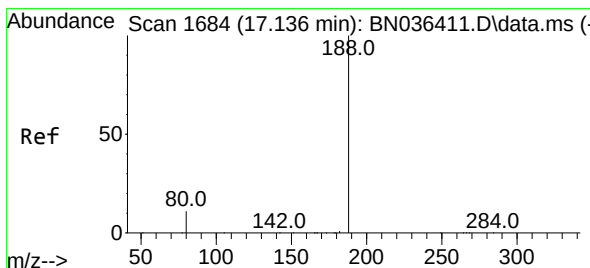
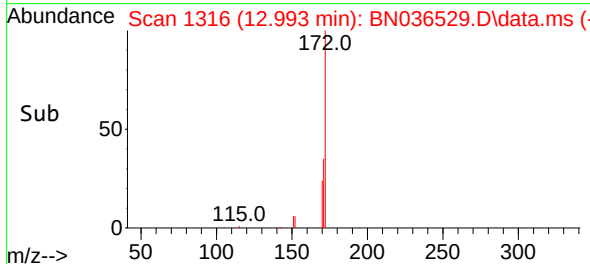
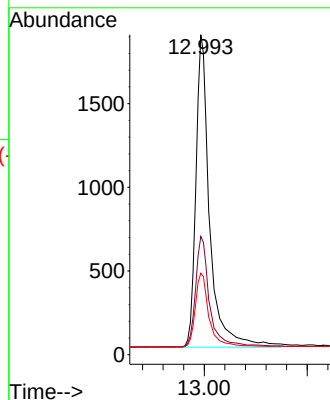
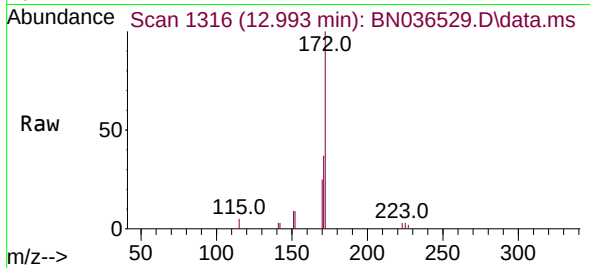




#15
2-Fluorobiphenyl
Concen: 0.487 ng
RT: 12.993 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

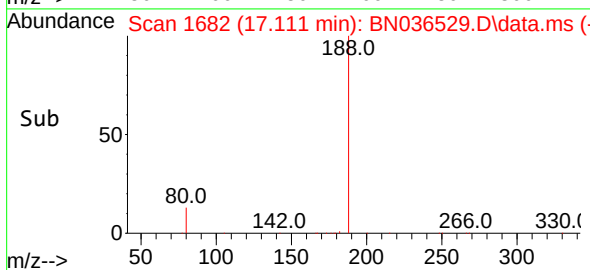
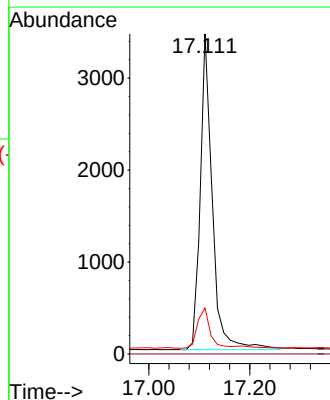
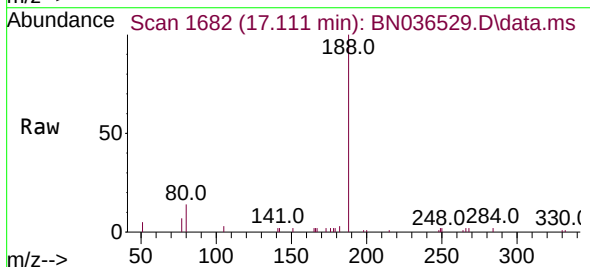
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228

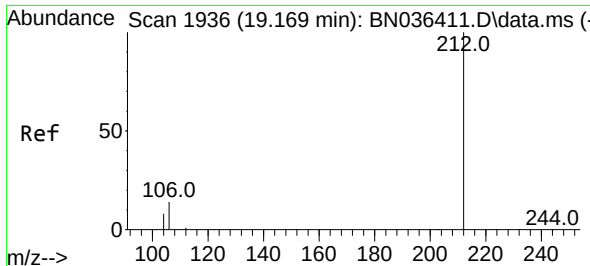
Tgt Ion:172	Resp:	4787
Ion Ratio	Lower	Upper
172	100	
171	37.0	29.6 44.4
170	25.5	19.8 29.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

Tgt Ion:188	Resp:	5706
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0 0.0
80	14.4	9.8 14.6

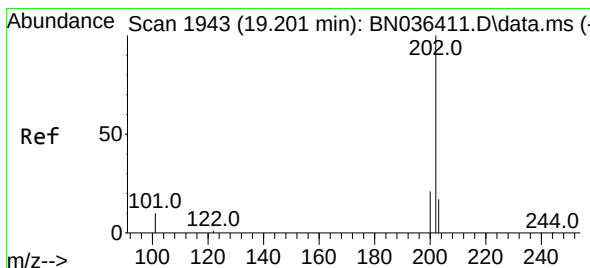
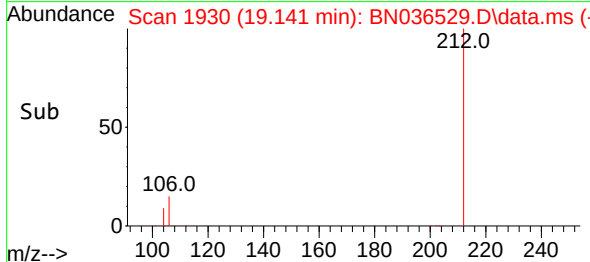
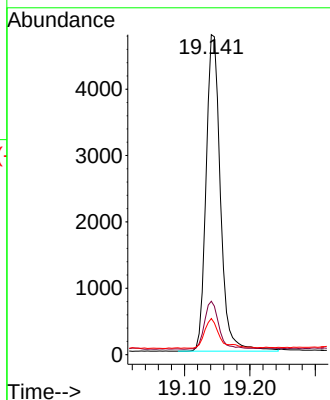
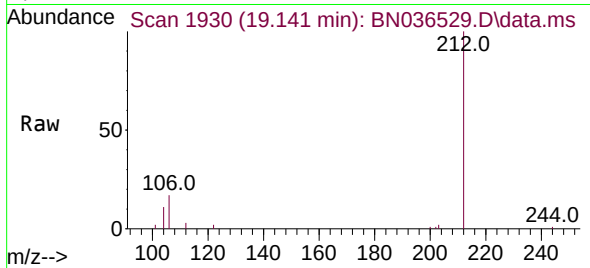




#27
Fluoranthene-d10
Concen: 0.458 ng
RT: 19.141 min Scan# 1930
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

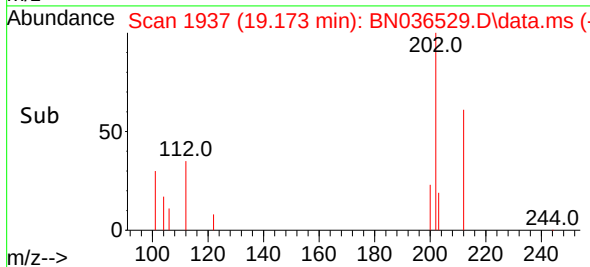
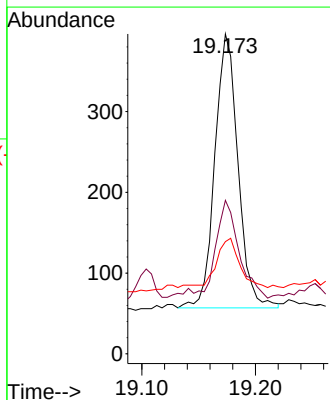
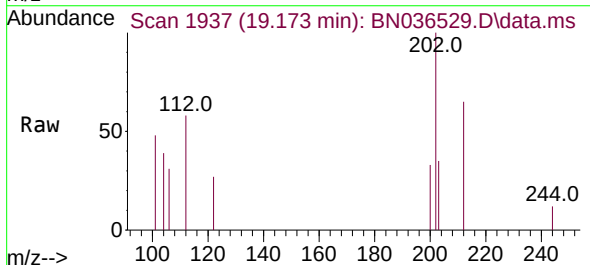
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228

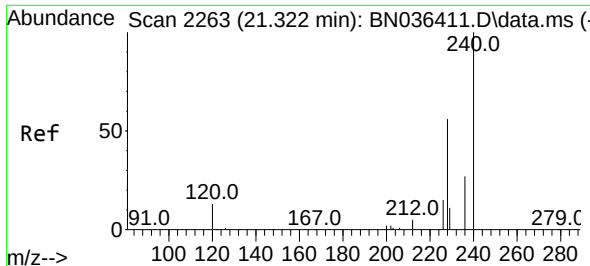
Tgt Ion:212 Resp: 7266
Ion Ratio Lower Upper
212 100
106 15.3 11.5 17.3
104 9.7 7.1 10.7



#28
Fluoranthene
Concen: 0.024 ng
RT: 19.173 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

Tgt Ion:202 Resp: 479
Ion Ratio Lower Upper
202 100
101 34.4 9.2 13.8#
203 18.2 13.4 20.0

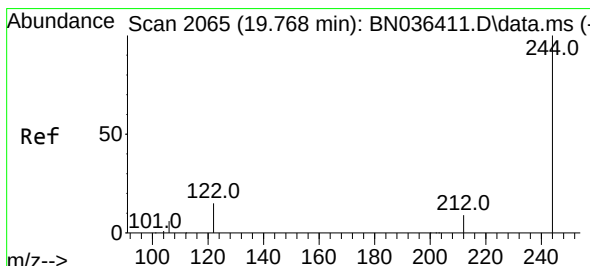
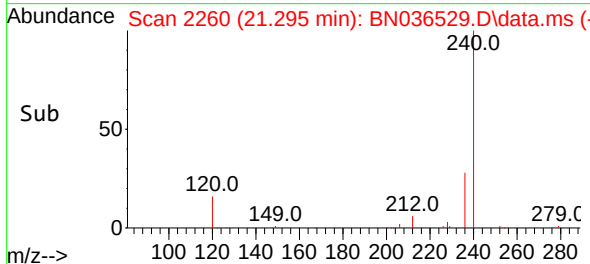
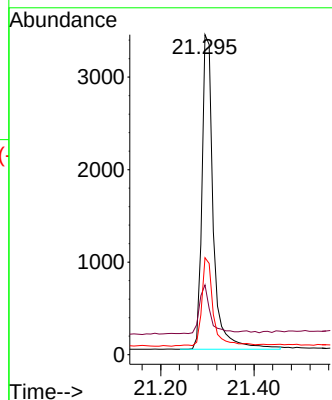
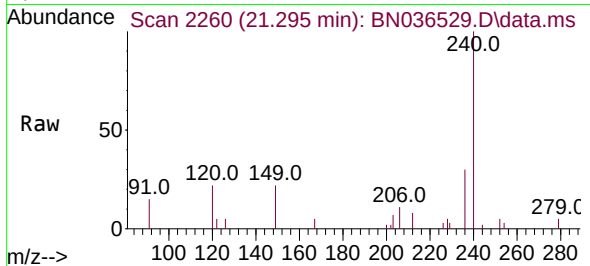




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

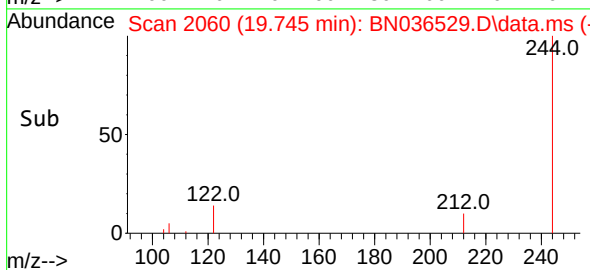
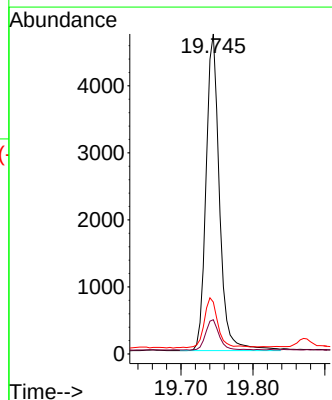
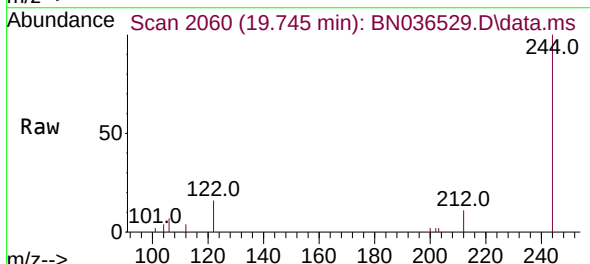
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250228

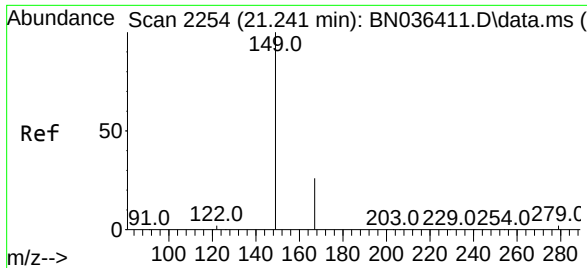
Tgt Ion:240 Resp: 5791
Ion Ratio Lower Upper
240 100
120 21.8 13.3 19.9#
236 30.3 23.0 34.6



#31
Terphenyl-d14
Concen: 0.493 ng
RT: 19.745 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BN036529.D
Acq: 05 Mar 2025 18:07

Tgt Ion:244 Resp: 6098
Ion Ratio Lower Upper
244 100
212 10.7 8.1 12.1
122 16.2 12.8 19.2

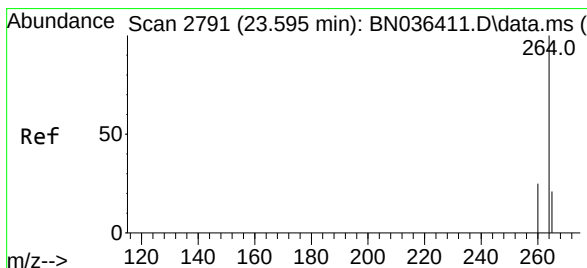
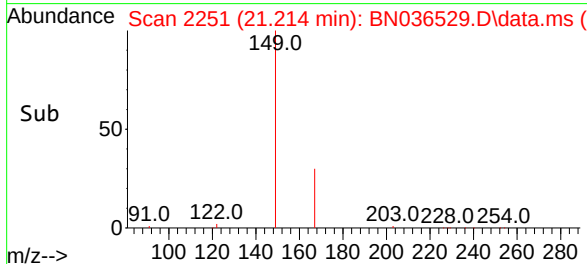
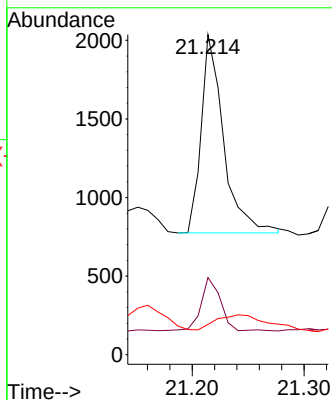
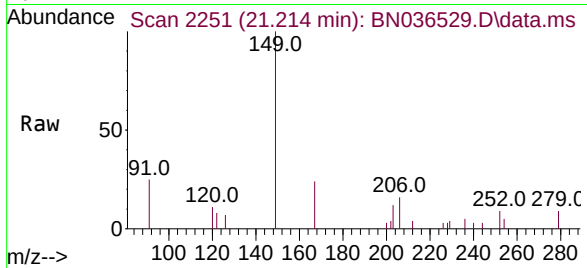




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.148 ng
 RT: 21.214 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036529.D
 Acq: 05 Mar 2025 18:07

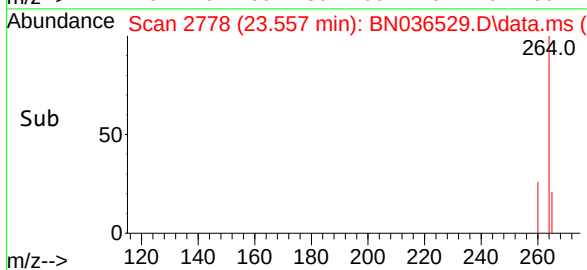
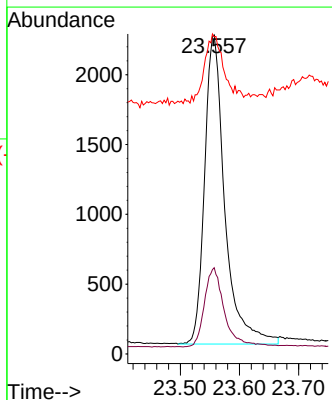
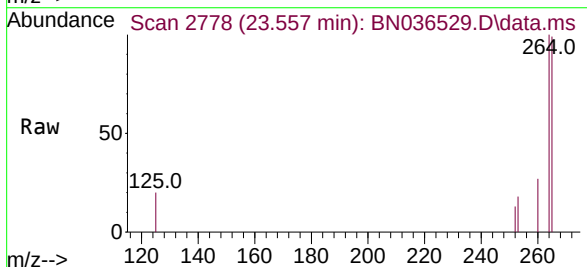
Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP303-20250228

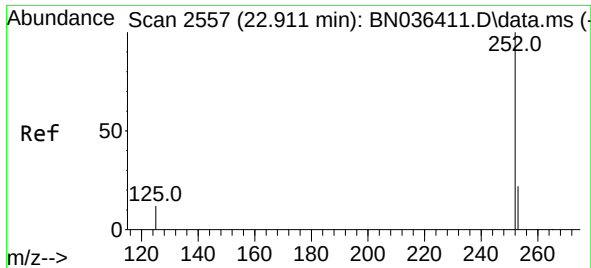
Tgt Ion:149 Resp: 1753
 Ion Ratio Lower Upper
 149 100
 167 22.8 21.2 31.8
 279 0.0 2.7 4.1#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.557 min Scan# 2778
 Delta R.T. 0.006 min
 Lab File: BN036529.D
 Acq: 05 Mar 2025 18:07

Tgt Ion:264 Resp: 5265
 Ion Ratio Lower Upper
 264 100
 260 27.0 20.9 31.3
 265 99.4 60.7 91.1#





#37

Benzo(b)fluoranthene

Concen: 0.025 ng

RT: 22.879 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN036529.D

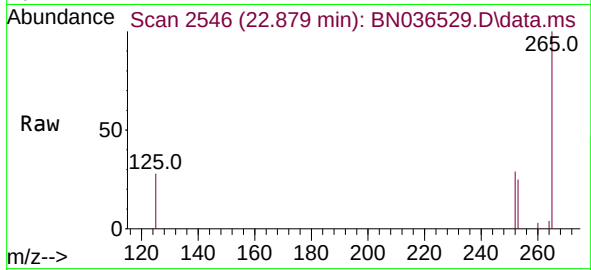
Acq: 05 Mar 2025 18:07

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20250228



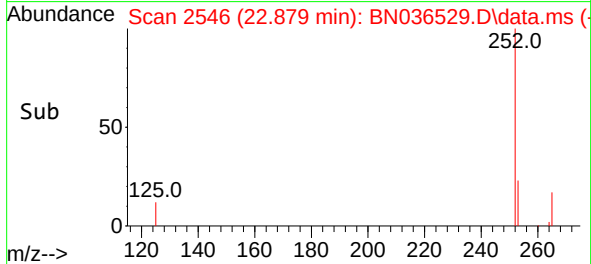
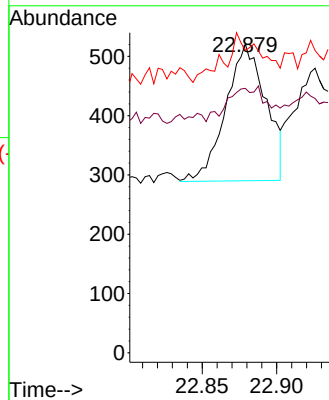
Tgt Ion:252 Resp: 432

Ion Ratio Lower Upper

252 100

253 85.6 21.9 32.9#

125 97.9 15.0 22.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
 Data File : BN036530.D
 Acq On : 05 Mar 2025 18:43
 Operator : RC/JU
 Sample : PB166992BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166992BS

Quant Time: Mar 06 00:02:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

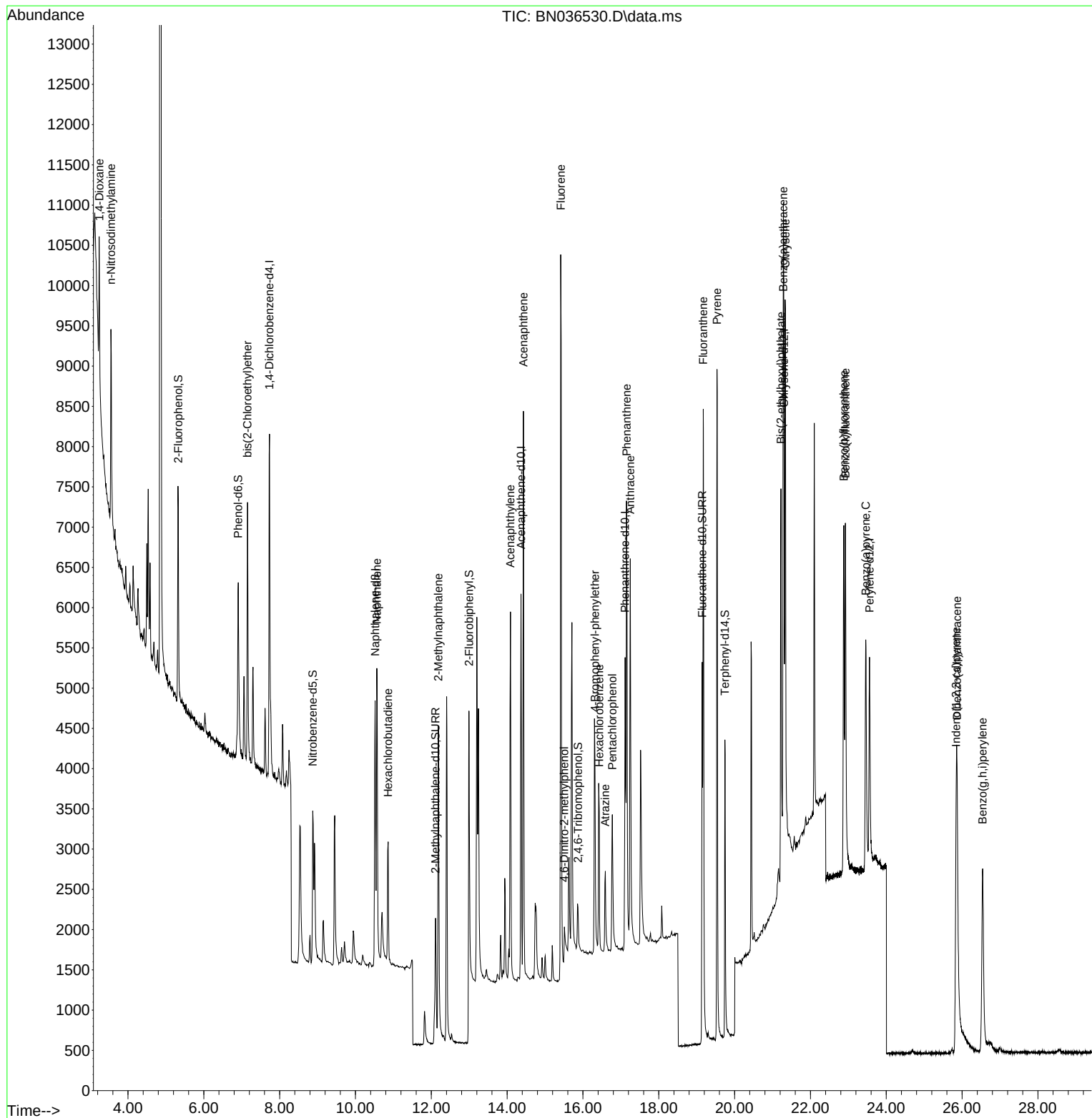
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	2101	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	4843	0.400	ng	# 0.01
13) Acenaphthene-d10	14.366	164	2666	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	5405	0.400	ng	0.00
29) Chrysene-d12	21.304	240	4446	0.400	ng	0.00
35) Perylene-d12	23.557	264	4016	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.327	112	2029	0.409	ng	0.00
5) Phenol-d6	6.908	99	2300	0.395	ng	0.00
8) Nitrobenzene-d5	8.875	82	1863	0.390	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3620	0.486	ng	0.00
14) 2,4,6-Tribromophenol	15.870	330	427	0.323	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	5706	0.569	ng	0.00
27) Fluoranthene-d10	19.146	212	5870	0.391	ng	0.00
31) Terphenyl-d14	19.745	244	4336	0.457	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.247	88	828	0.360	ng	# 57
3) n-Nitrosodimethylamine	3.550	42	1790	0.448	ng	96
6) bis(2-Chloroethyl)ether	7.154	93	2444	0.401	ng	100
9) Naphthalene	10.562	128	5414	0.387	ng	98
10) Hexachlorobutadiene	10.861	225	1336	0.393	ng	# 98
12) 2-Methylnaphthalene	12.187	142	3418	0.373	ng	98
16) Acenaphthylene	14.088	152	5341	0.454	ng	99
17) Acenaphthene	14.430	154	3346	0.425	ng	100
18) Fluorene	15.414	166	4501	0.402	ng	98
20) 4,6-Dinitro-2-methylph...	15.510	198	276	0.260	ng	# 77
21) 4-Bromophenyl-phenylether	16.317	248	1308	0.406	ng	# 78
22) Hexachlorobenzene	16.429	284	1641	0.412	ng	96
23) Atrazine	16.590	200	1160	0.431	ng	97
24) Pentachlorophenol	16.776	266	1149	0.608	ng	98
25) Phenanthrene	17.148	178	6761	0.433	ng	100
26) Anthracene	17.248	178	6330	0.459	ng	99
28) Fluoranthene	19.174	202	7886	0.411	ng	100
30) Pyrene	19.536	202	8237	0.481	ng	99
32) Benzo(a)anthracene	21.286	228	6490	0.444	ng	99
33) Chrysene	21.340	228	7215	0.455	ng	99
34) Bis(2-ethylhexyl)phtha...	21.223	149	4333	0.475	ng	# 94
36) Indeno(1,2,3-cd)pyrene	25.844	276	6502	0.463	ng	99
37) Benzo(b)fluoranthene	22.879	252	5777	0.437	ng	94
38) Benzo(k)fluoranthene	22.923	252	6530	0.480	ng	95
39) Benzo(a)pyrene	23.458	252	5389	0.467	ng	92
40) Dibenzo(a,h)anthracene	25.867	278	4767	0.430	ng	93
41) Benzo(g,h,i)perylene	26.542	276	5159	0.411	ng	98

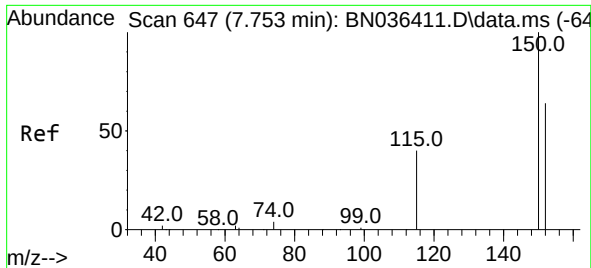
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036530.D
Acq On : 05 Mar 2025 18:43
Operator : RC/JU
Sample : PB166992BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB166992BS

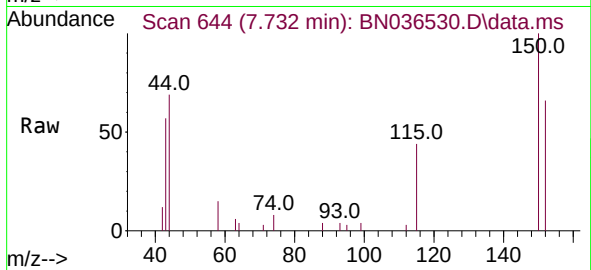
Quant Time: Mar 06 00:02:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration



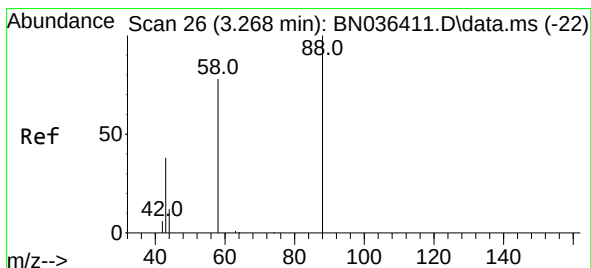
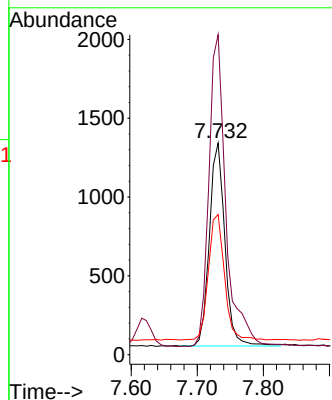
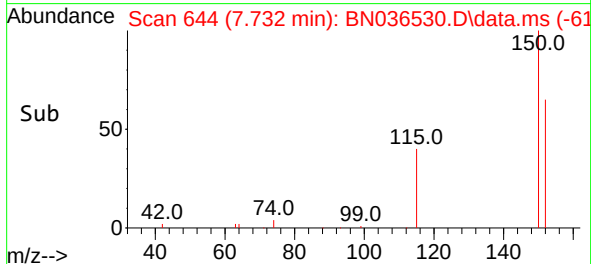


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.732 min Scan# 64
 Delta R.T. -0.000 min
 Lab File: BN036530.D
 Acq: 05 Mar 2025 18:43

Instrument :
 BNA_N
 ClientSampleId :
 PB166992BS

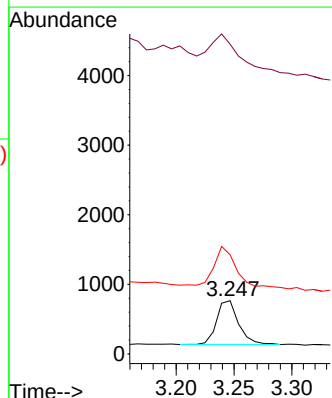
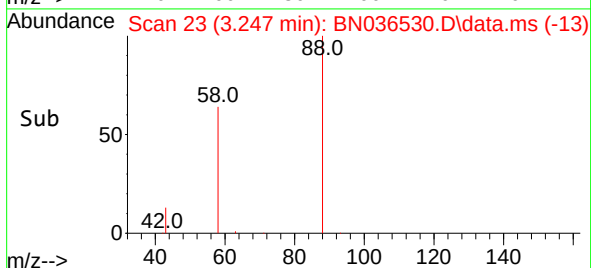
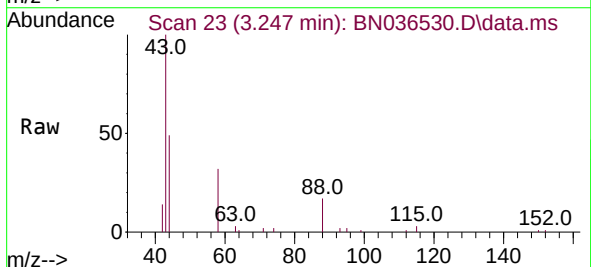


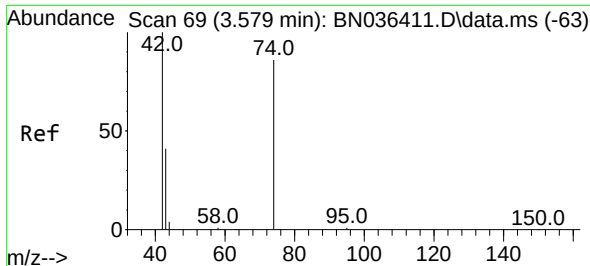
Tgt Ion:152 Resp: 2101
 Ion Ratio Lower Upper
 152 100
 150 151.2 123.7 185.5
 115 66.2 52.5 78.7



#2
 1,4-Dioxane
 Concen: 0.360 ng
 RT: 3.247 min Scan# 23
 Delta R.T. -0.000 min
 Lab File: BN036530.D
 Acq: 05 Mar 2025 18:43

Tgt Ion: 88 Resp: 828
 Ion Ratio Lower Upper
 88 100
 43 119.2 33.7 50.5#
 58 90.2 68.9 103.3

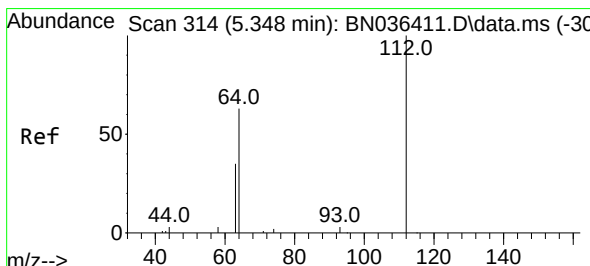
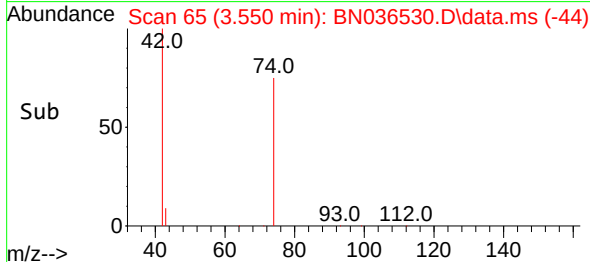
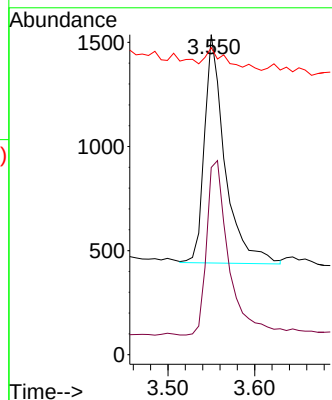
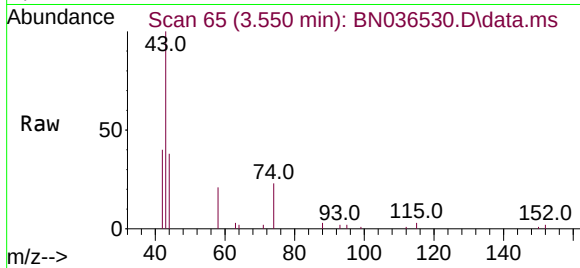




#3
n-Nitrosodimethylamine
Concen: 0.448 ng
RT: 3.550 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

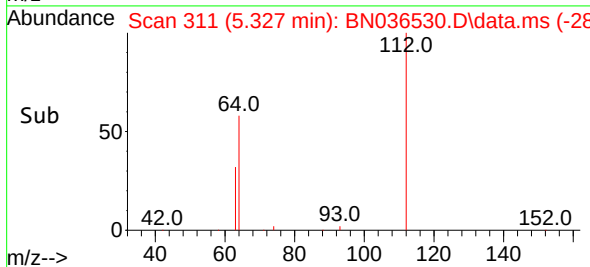
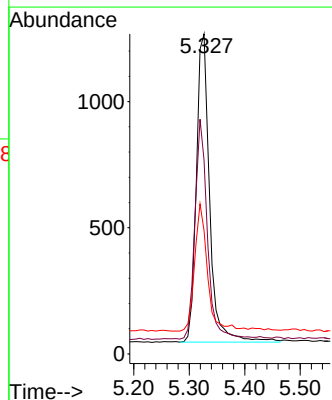
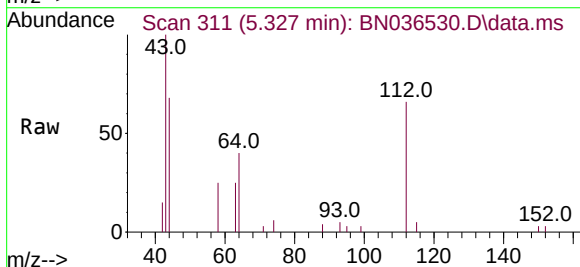
Instrument :
BNA_N
ClientSampleId :
PB166992BS

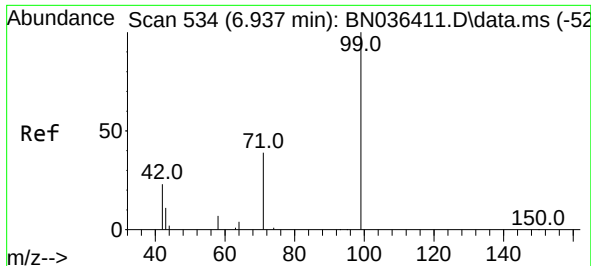
Tgt Ion: 42 Resp: 1790
Ion Ratio Lower Upper
42 100
74 85.7 71.8 107.6
44 10.0 7.8 11.6



#4
2-Fluorophenol
Concen: 0.409 ng
RT: 5.327 min Scan# 311
Delta R.T. 0.007 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion: 112 Resp: 2029
Ion Ratio Lower Upper
112 100
64 66.5 53.4 80.0
63 39.3 30.3 45.5

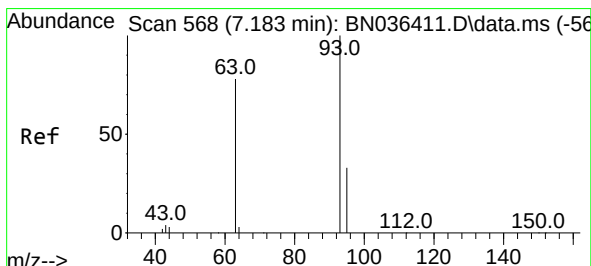
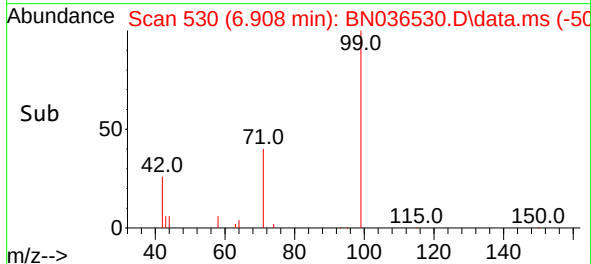
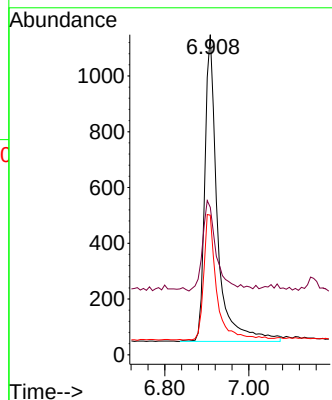
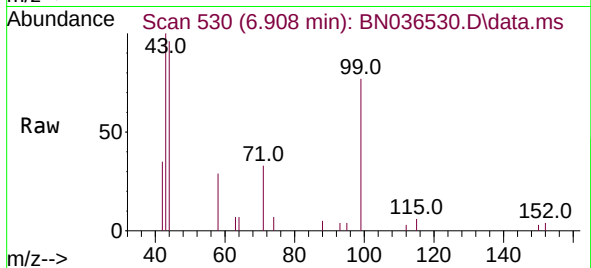




#5
Phenol-d6
Concen: 0.395 ng
RT: 6.908 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

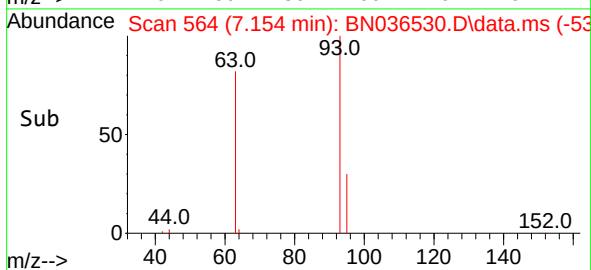
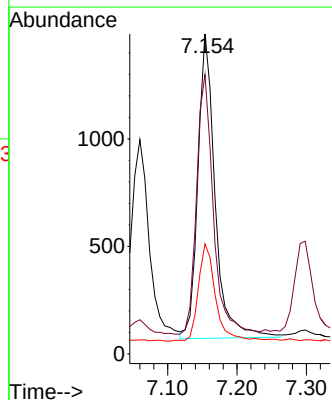
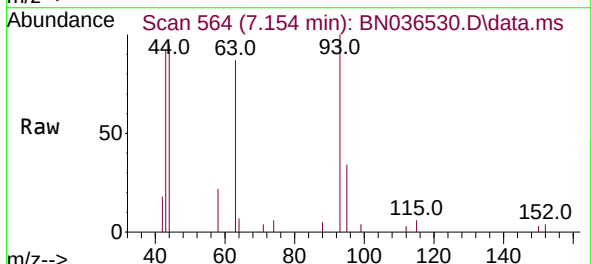
Instrument :
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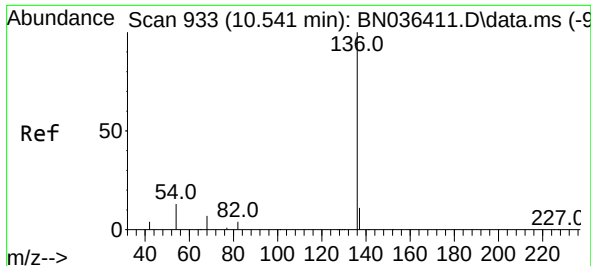
Tgt Ion: 99 Resp: 2300
Ion Ratio Lower Upper
99 100
42 31.3 21.7 32.5
71 41.3 32.6 49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.401 ng
RT: 7.154 min Scan# 564
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion: 93 Resp: 2444
Ion Ratio Lower Upper
93 100
63 82.9 66.3 99.5
95 32.4 26.2 39.4

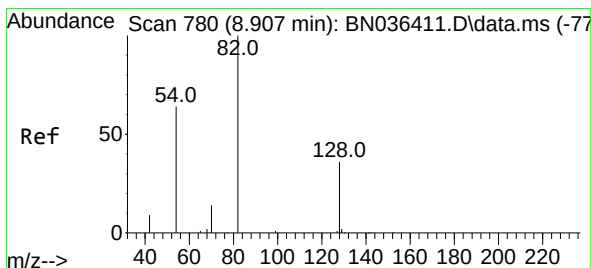
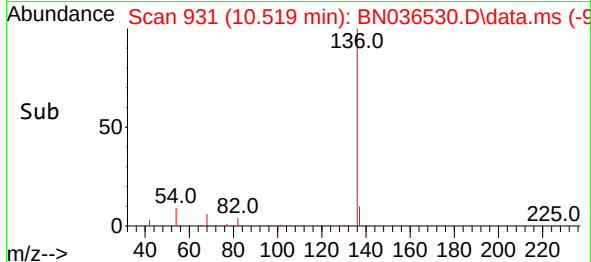
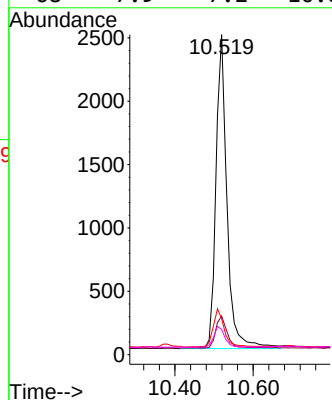
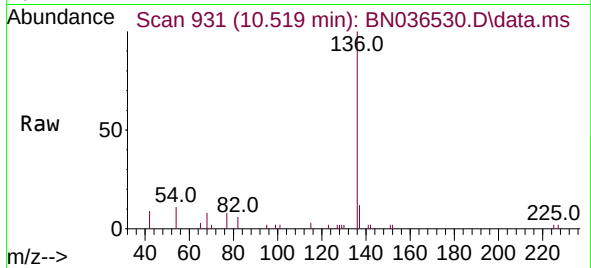




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

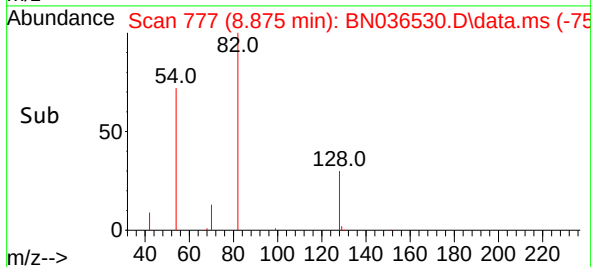
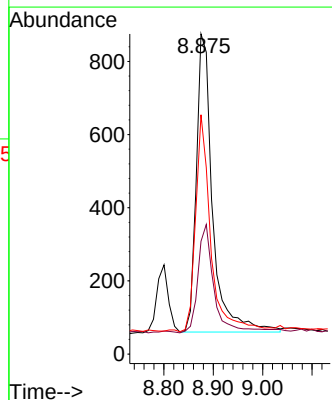
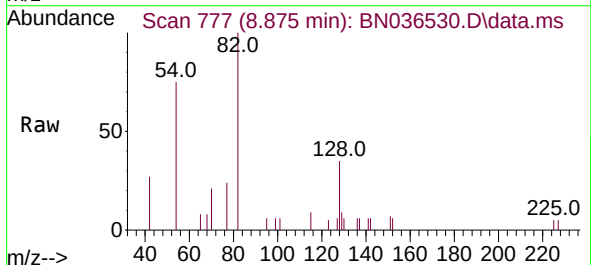
Instrument :
BNA_N
ClientSampleId :
PB166992BS

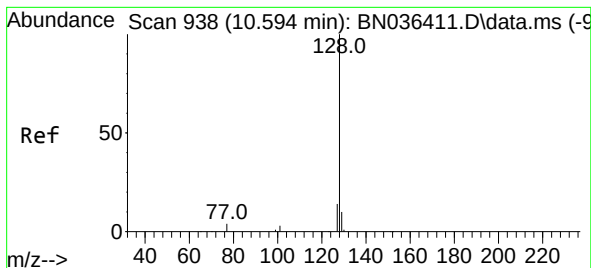
Tgt Ion:	136	Resp:	4843
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.1	15.1
54	11.2	11.8	17.6#
68	7.9	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.390 ng
RT: 8.875 min Scan# 777
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion:	82	Resp:	1863
Ion	Ratio	Lower	Upper
82	100		
128	35.2	31.9	47.9
54	74.7	53.1	79.7





#9

Naphthalene

Concen: 0.387 ng

RT: 10.562 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN036530.D

Acq: 05 Mar 2025 18:43

Instrument :

BNA_N

ClientSampleId :

PB166992BS

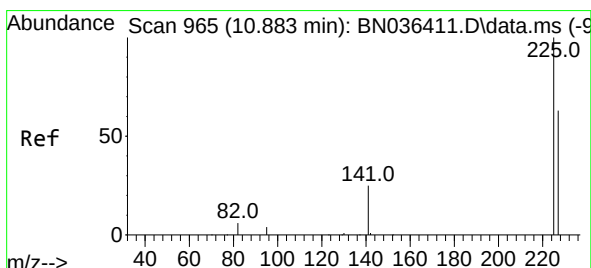
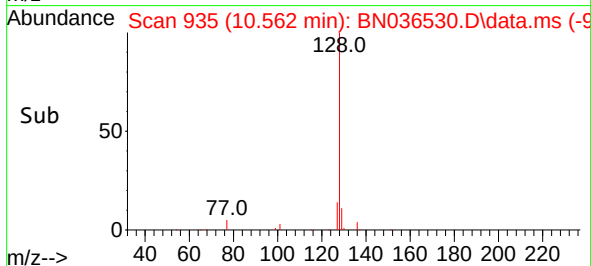
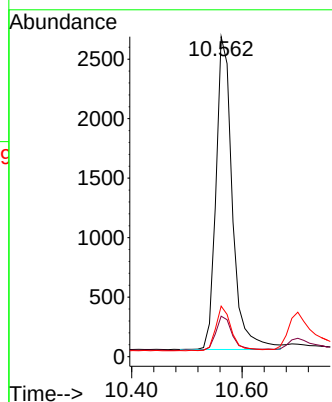
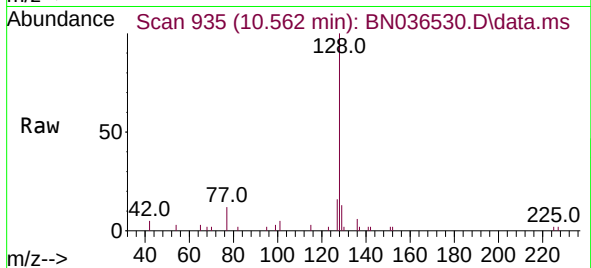
Tgt Ion:128 Resp: 5414

Ion Ratio Lower Upper

128 100

129 12.6 9.6 14.4

127 15.8 12.0 18.0



#10

Hexachlorobutadiene

Concen: 0.393 ng

RT: 10.861 min Scan# 963

Delta R.T. 0.011 min

Lab File: BN036530.D

Acq: 05 Mar 2025 18:43

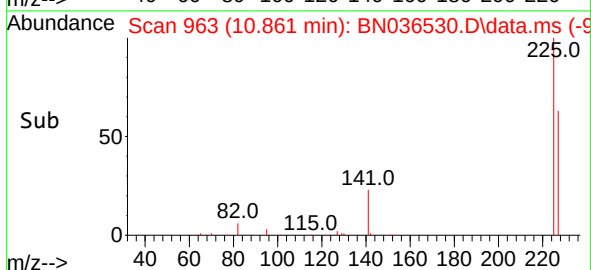
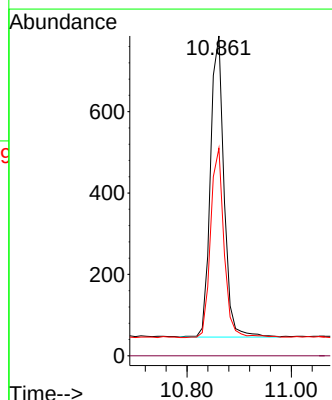
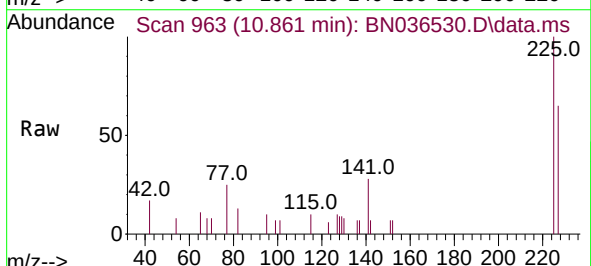
Tgt Ion:225 Resp: 1336

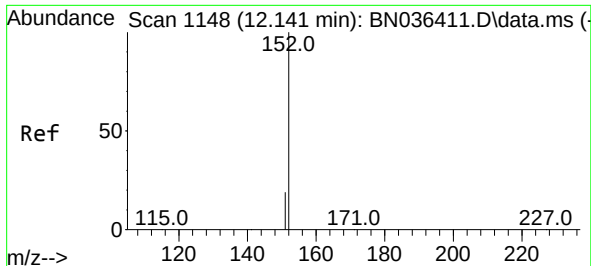
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 62.4 50.9 76.3

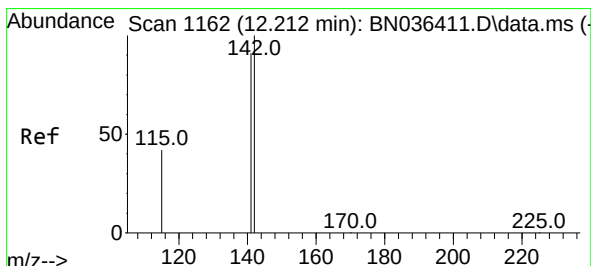
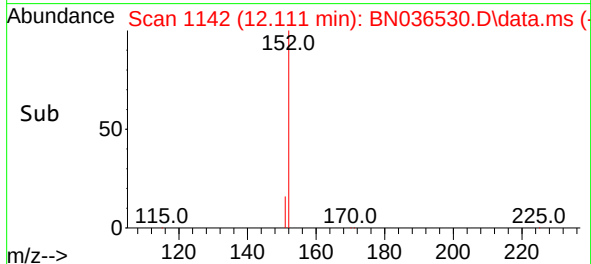
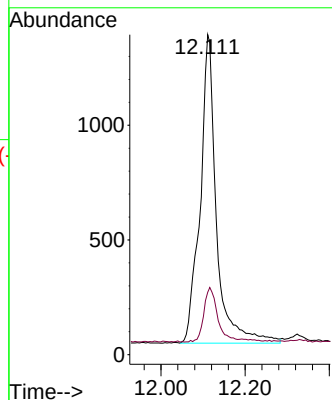
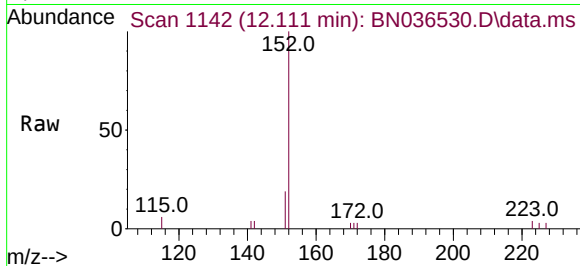




#11
2-Methylnaphthalene-d10
Concen: 0.486 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.005 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

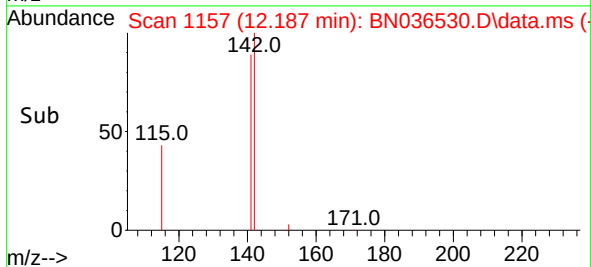
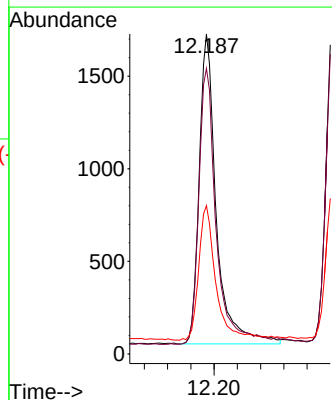
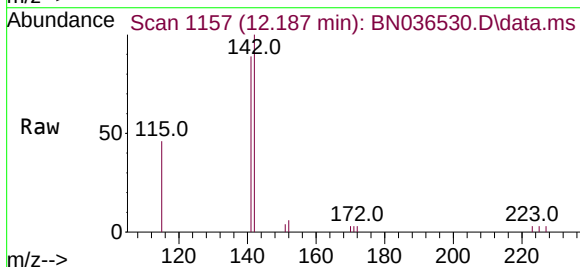
Instrument :
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ClientSampleId :
PB166992BS

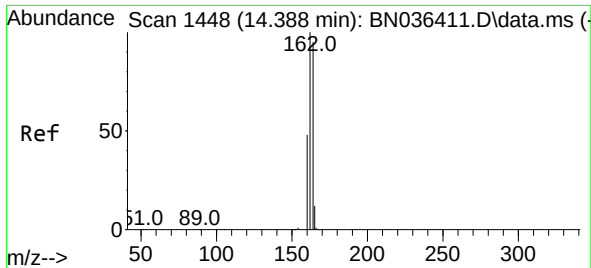
Tgt Ion:152 Resp: 3620
Ion Ratio Lower Upper
152 100
151 14.9 16.6 25.0#



#12
2-Methylnaphthalene
Concen: 0.373 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion:142 Resp: 3418
Ion Ratio Lower Upper
142 100
141 89.2 72.8 109.2
115 46.4 35.5 53.3

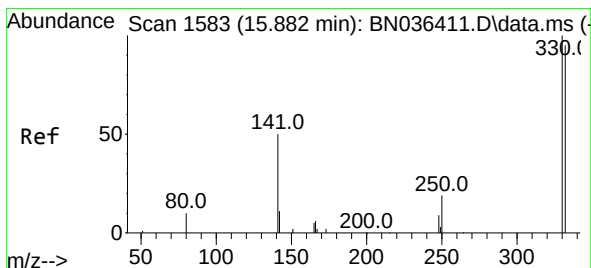
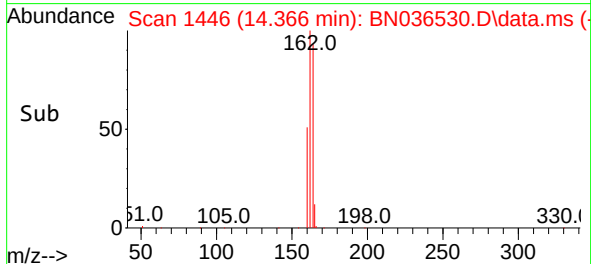
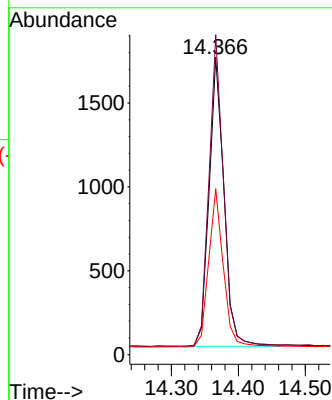
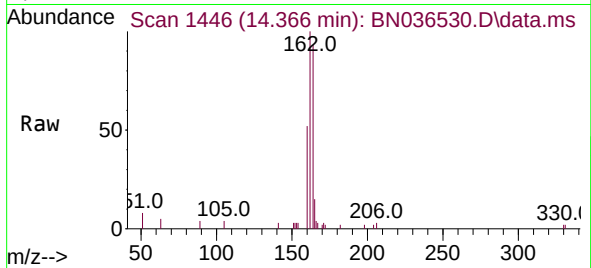




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

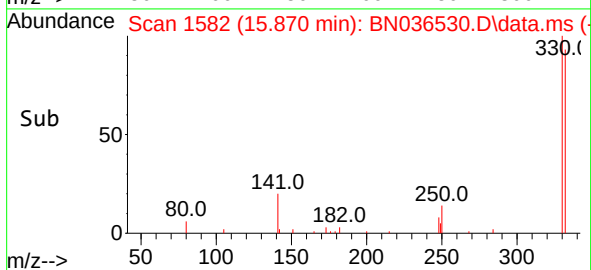
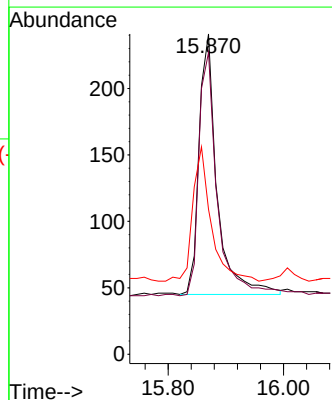
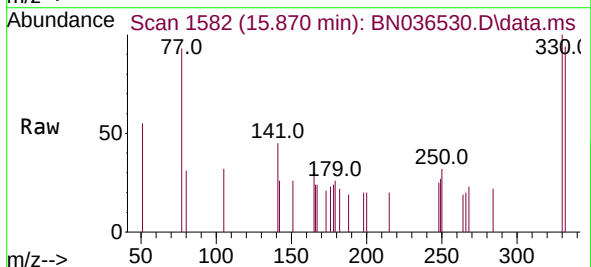
Instrument :
BNA_N
ClientSampleId :
PB166992BS

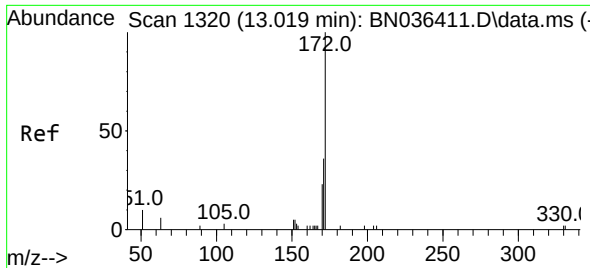
Tgt Ion:164 Resp: 2666
Ion Ratio Lower Upper
164 100
162 107.5 84.1 126.1
160 55.7 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.323 ng
RT: 15.870 min Scan# 1582
Delta R.T. 0.012 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion:330 Resp: 427
Ion Ratio Lower Upper
330 100
332 96.7 76.6 114.8
141 52.0 37.8 56.8

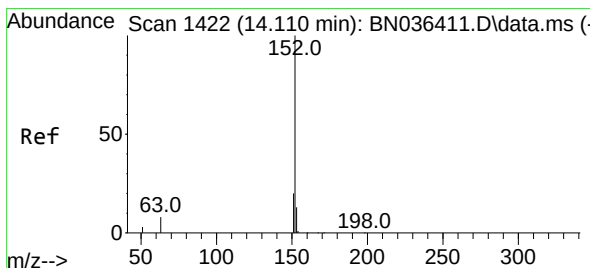
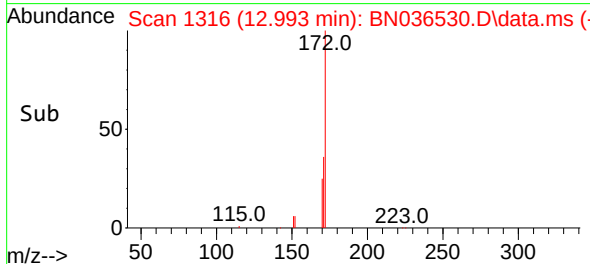
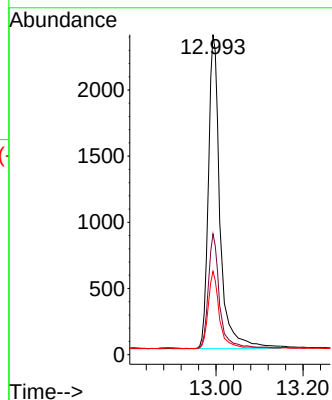
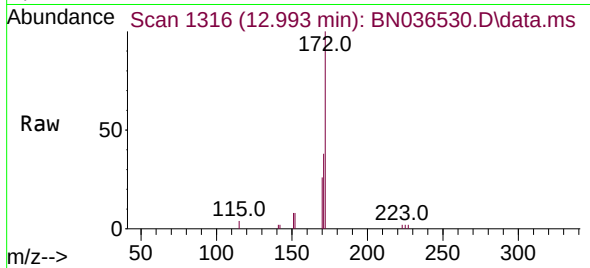




#15
2-Fluorobiphenyl
Concen: 0.569 ng
RT: 12.993 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

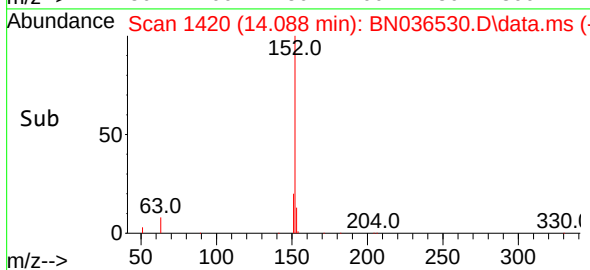
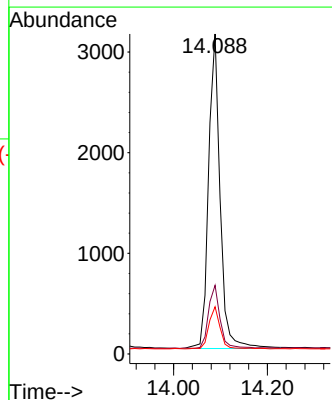
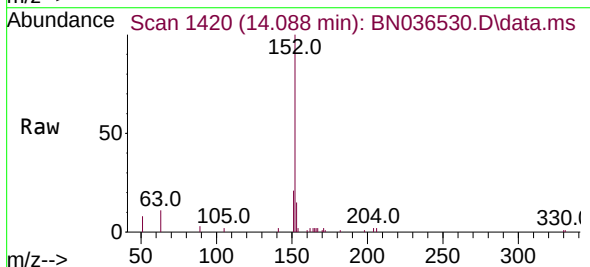
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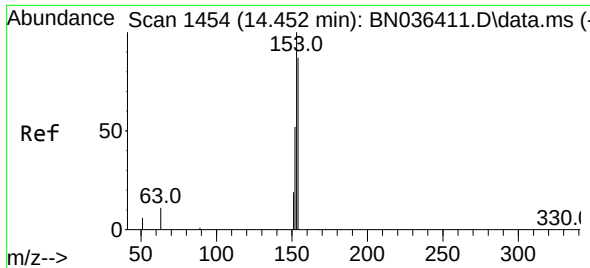
Tgt Ion:172 Resp: 5706
Ion Ratio Lower Upper
172 100
171 37.8 29.6 44.4
170 26.0 19.8 29.6



#16
Acenaphthylene
Concen: 0.454 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion:152 Resp: 5341
Ion Ratio Lower Upper
152 100
151 20.1 15.8 23.8
153 13.2 10.2 15.2

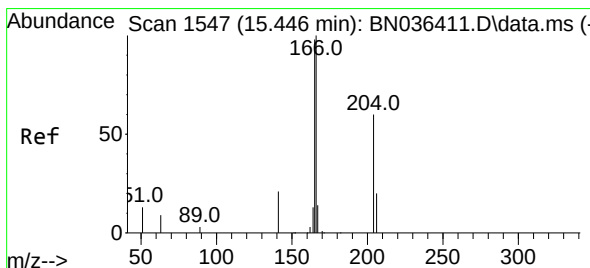
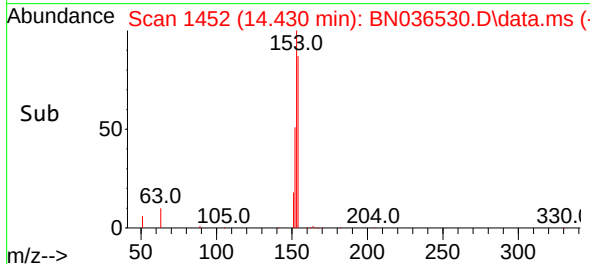
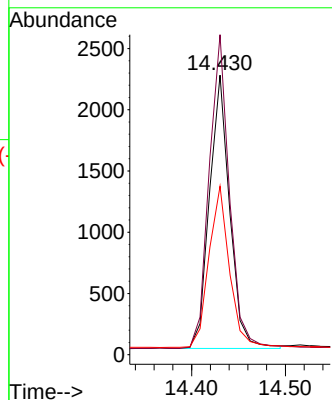
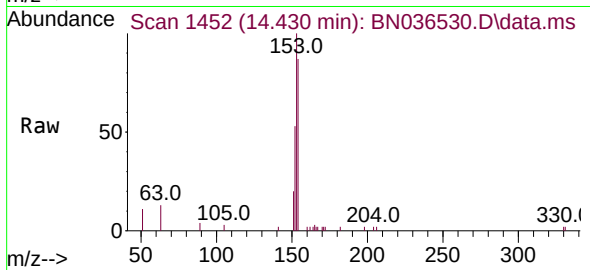




#17
Acenaphthene
Concen: 0.425 ng
RT: 14.430 min Scan# 1452
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

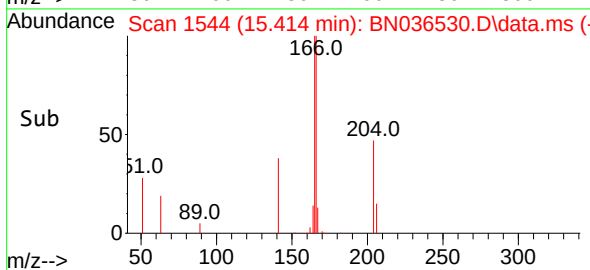
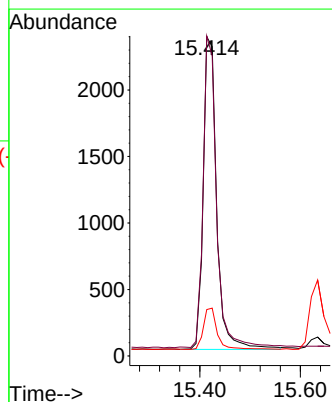
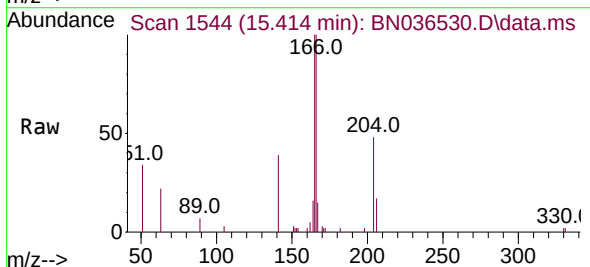
Instrument :
BNA_N
ClientSampleId :
PB166992BS

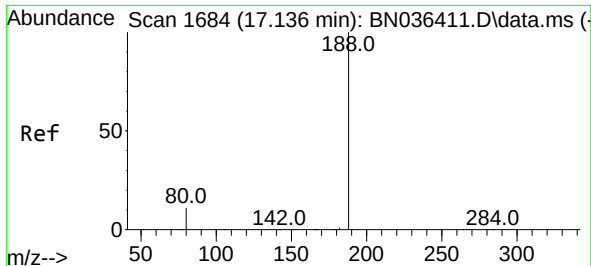
Tgt Ion:154 Resp: 3346
Ion Ratio Lower Upper
154 100
153 116.4 93.3 139.9
152 60.6 48.8 73.2



#18
Fluorene
Concen: 0.402 ng
RT: 15.414 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion:166 Resp: 4501
Ion Ratio Lower Upper
166 100
165 97.9 79.5 119.3
167 13.8 10.4 15.6

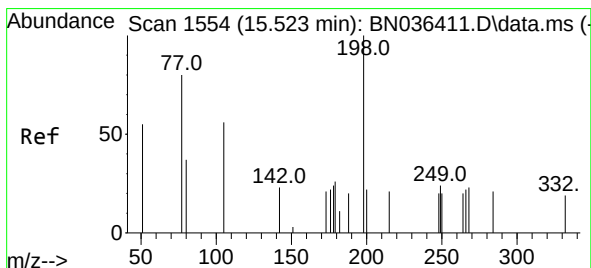
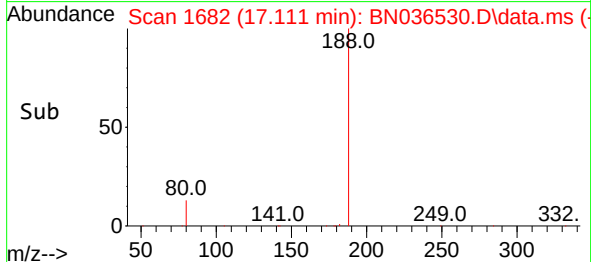
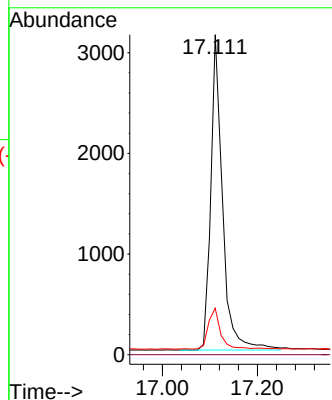
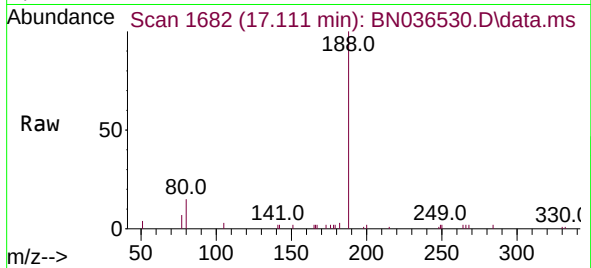




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

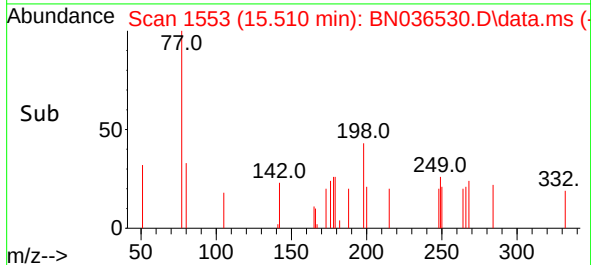
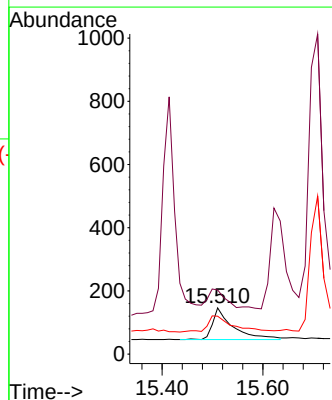
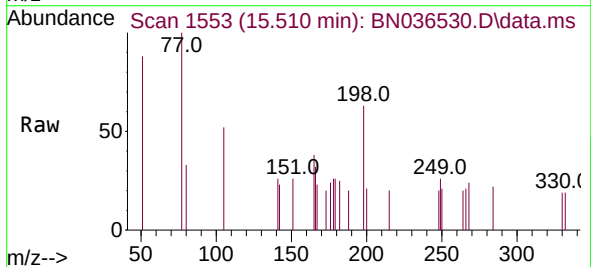
Instrument :
BNA_N
ClientSampleId :
PB166992BS

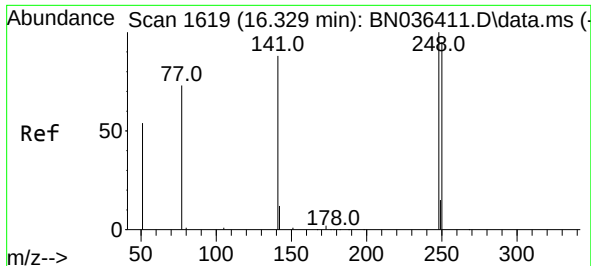
Tgt Ion:188 Resp: 5405
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.5 9.8 14.6



#20
4,6-Dinitro-2-methylphenol
Concen: 0.260 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion:198 Resp: 276
Ion Ratio Lower Upper
198 100
51 139.0 86.6 129.8#
105 82.2 57.5 86.3

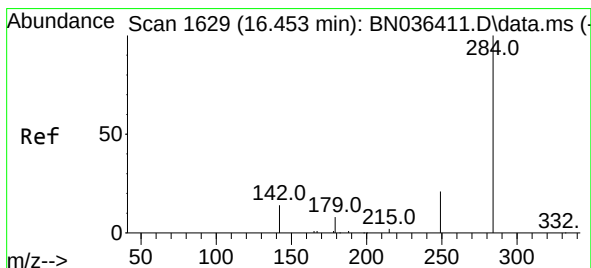
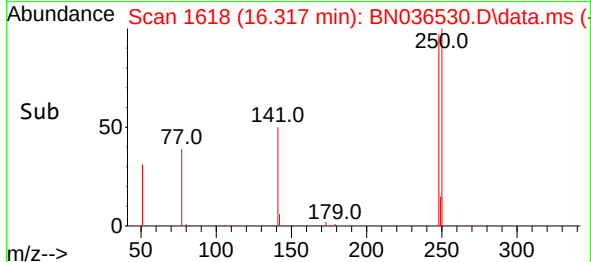
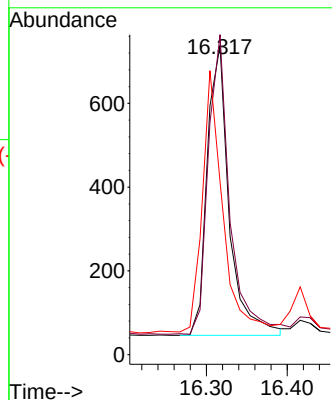
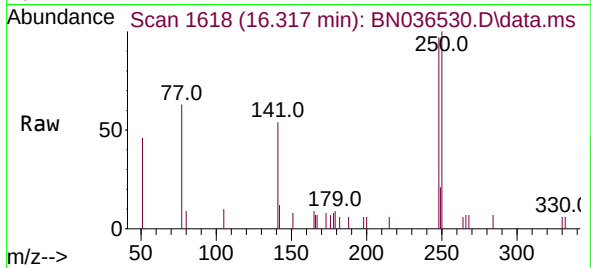




#21
4-Bromophenyl-phenylether
Concen: 0.406 ng
RT: 16.317 min Scan# 1618
Delta R.T. 0.012 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

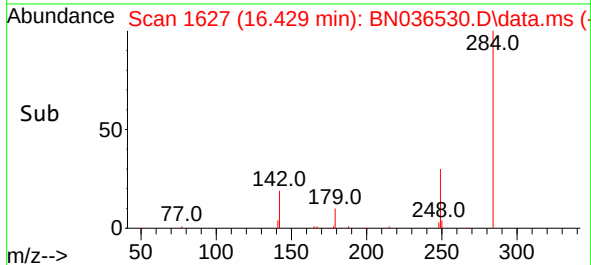
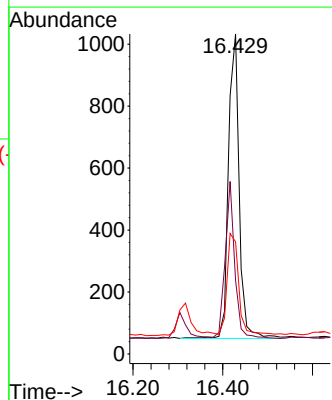
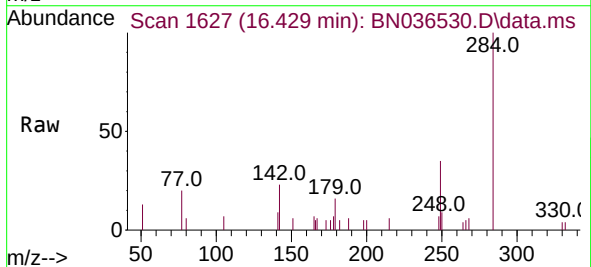
Instrument :
BNA_N
ClientSampleId :
PB166992BS

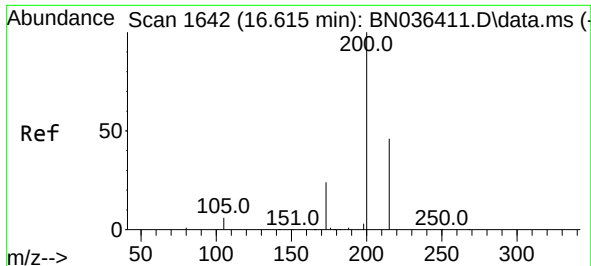
Tgt Ion:248 Resp: 1308
Ion Ratio Lower Upper
248 100
250 103.5 76.1 114.1
141 56.0 71.7 107.5#



#22
Hexachlorobenzene
Concen: 0.412 ng
RT: 16.429 min Scan# 1627
Delta R.T. 0.012 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion:284 Resp: 1641
Ion Ratio Lower Upper
284 100
142 45.9 33.4 50.0
249 35.8 28.6 43.0

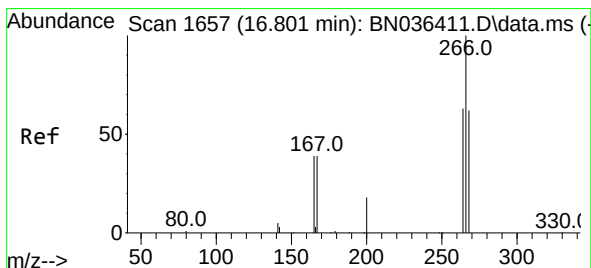
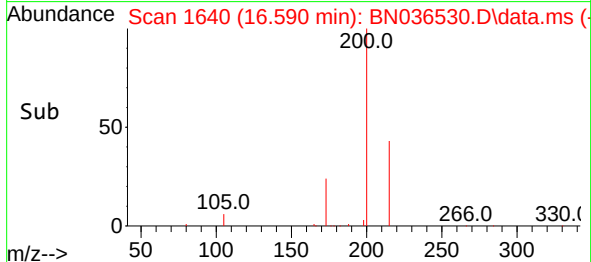
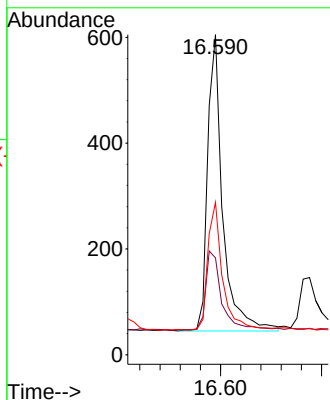
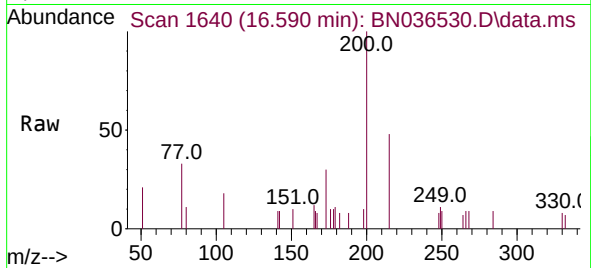




#23
 Atrazine
 Concen: 0.431 ng
 RT: 16.590 min Scan# 1640
 Delta R.T. 0.012 min
 Lab File: BN036530.D
 Acq: 05 Mar 2025 18:43

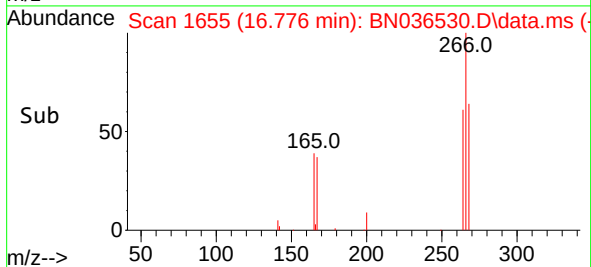
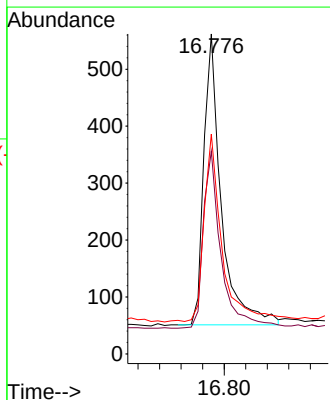
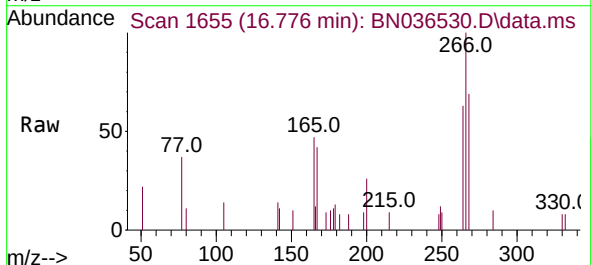
Instrument :
 BNA_N
 ClientSampleId :
 PB166992BS

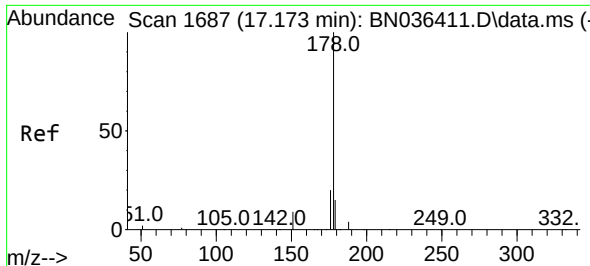
Tgt Ion:200 Resp: 1160
 Ion Ratio Lower Upper
 200 100
 173 30.2 23.2 34.8
 215 47.6 40.0 60.0



#24
 Pentachlorophenol
 Concen: 0.608 ng
 RT: 16.776 min Scan# 1655
 Delta R.T. 0.012 min
 Lab File: BN036530.D
 Acq: 05 Mar 2025 18:43

Tgt Ion:266 Resp: 1149
 Ion Ratio Lower Upper
 266 100
 264 62.2 50.6 76.0
 268 66.9 51.9 77.9

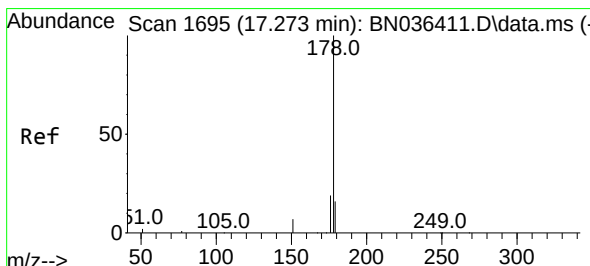
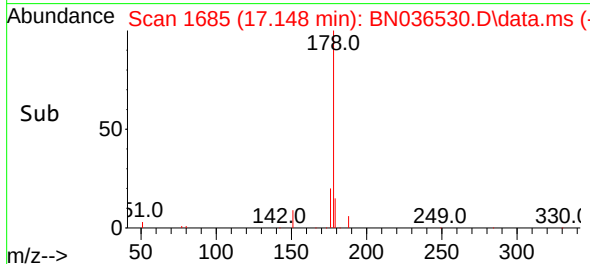
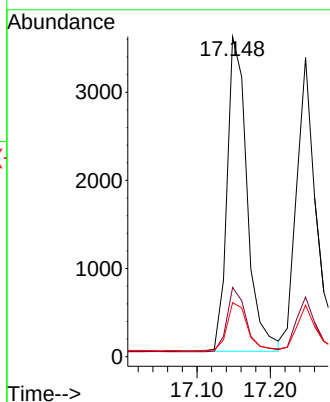
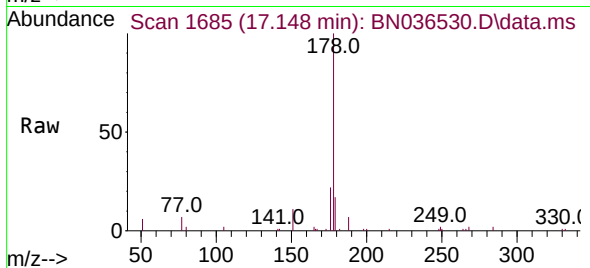




#25
 Phenanthrene
 Concen: 0.433 ng
 RT: 17.148 min Scan# 1685
 Delta R.T. -0.000 min
 Lab File: BN036530.D
 Acq: 05 Mar 2025 18:43

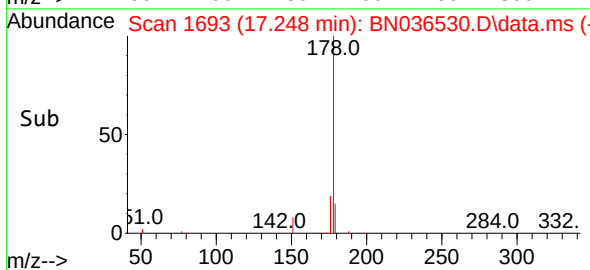
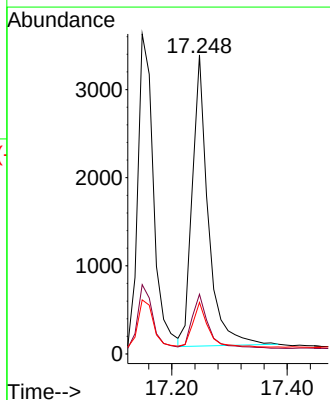
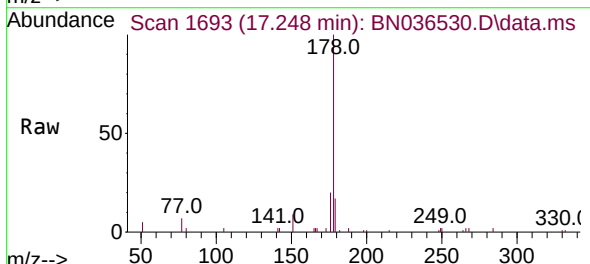
Instrument :
 BNA_N
 ClientSampleId :
 PB166992BS

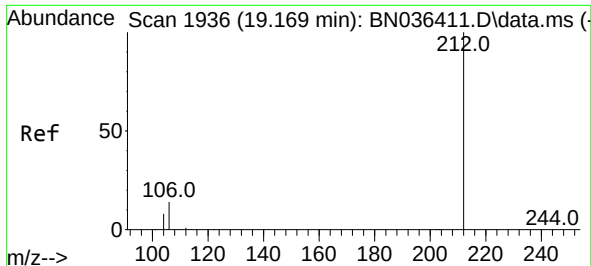
Tgt Ion:178 Resp: 6761
 Ion Ratio Lower Upper
 178 100
 176 19.7 15.7 23.5
 179 15.7 12.4 18.6



#26
 Anthracene
 Concen: 0.459 ng
 RT: 17.248 min Scan# 1693
 Delta R.T. 0.012 min
 Lab File: BN036530.D
 Acq: 05 Mar 2025 18:43

Tgt Ion:178 Resp: 6330
 Ion Ratio Lower Upper
 178 100
 176 19.2 14.9 22.3
 179 15.2 12.4 18.6

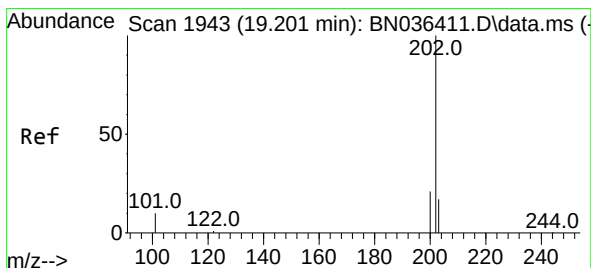
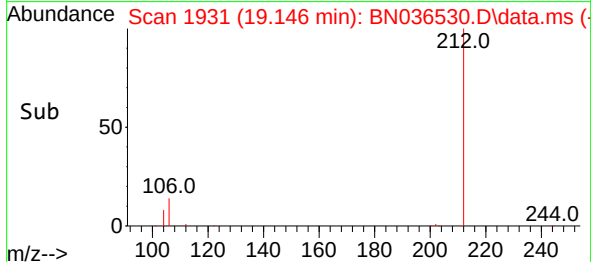
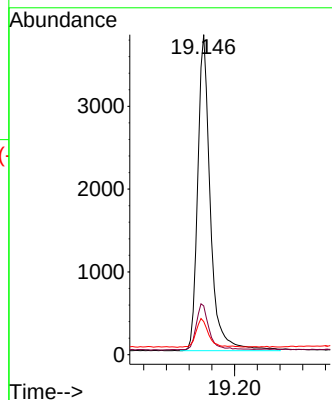
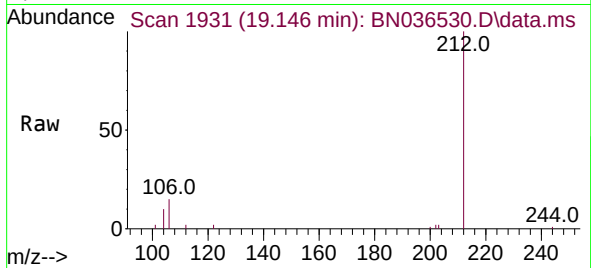




#27
Fluoranthene-d10
Concen: 0.391 ng
RT: 19.146 min Scan# 1931
Delta R.T. 0.005 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

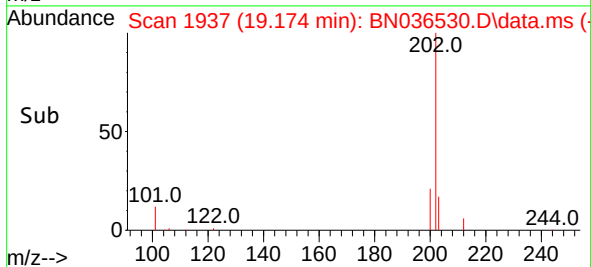
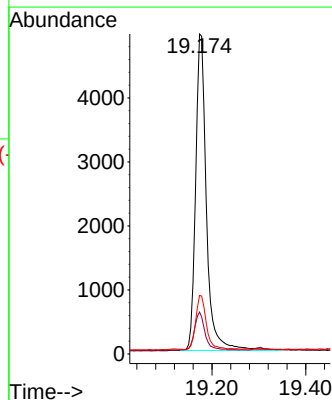
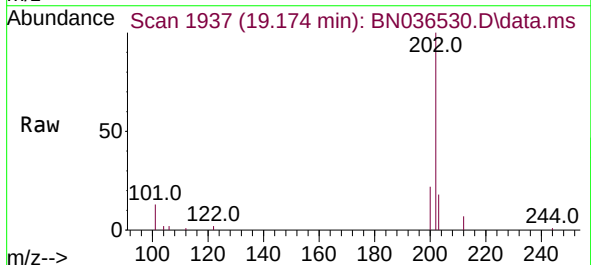
Instrument :
BNA_N
ClientSampleId :
PB166992BS

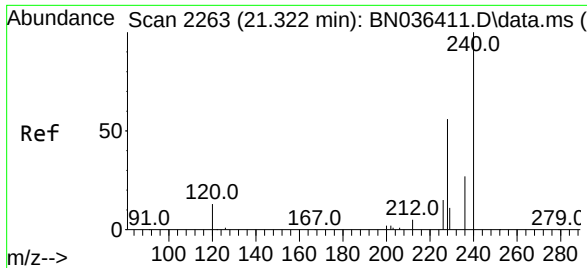
Tgt Ion:212 Resp: 5870
Ion Ratio Lower Upper
212 100
106 14.9 11.5 17.3
104 9.2 7.1 10.7



#28
Fluoranthene
Concen: 0.411 ng
RT: 19.174 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

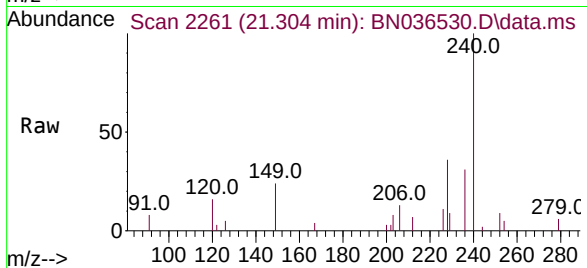
Tgt Ion:202 Resp: 7886
Ion Ratio Lower Upper
202 100
101 11.9 9.2 13.8
203 16.8 13.4 20.0



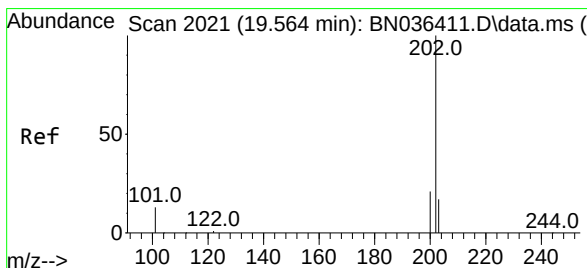
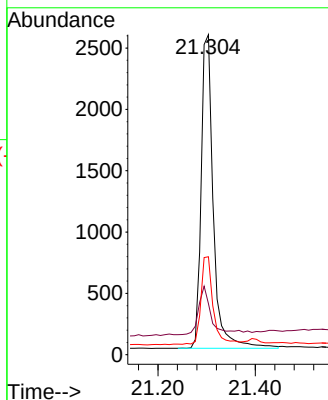
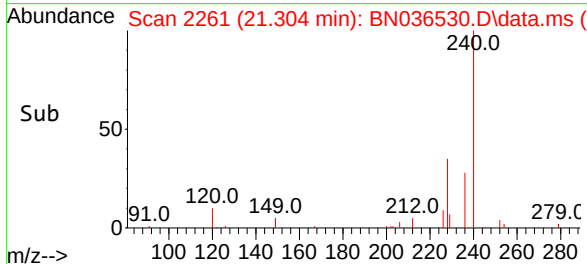


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

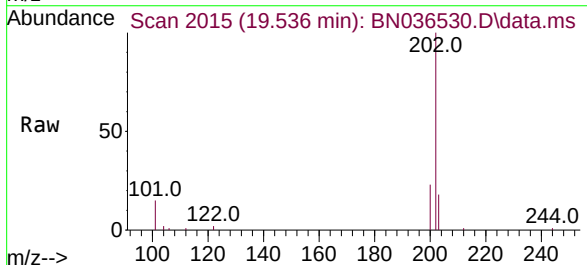
Instrument :
BNA_N
ClientSampleId :
PB166992BS



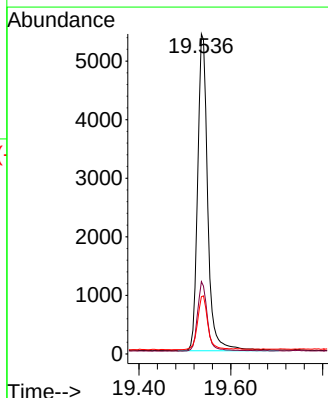
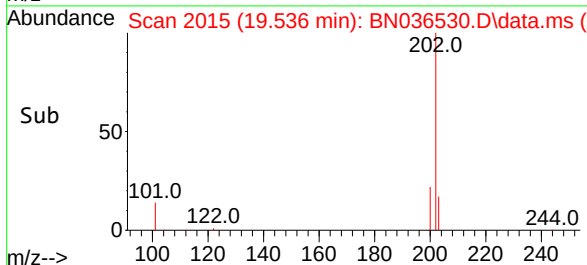
Tgt Ion:240 Resp: 4446
Ion Ratio Lower Upper
240 100
120 15.9 13.3 19.9
236 30.6 23.0 34.6

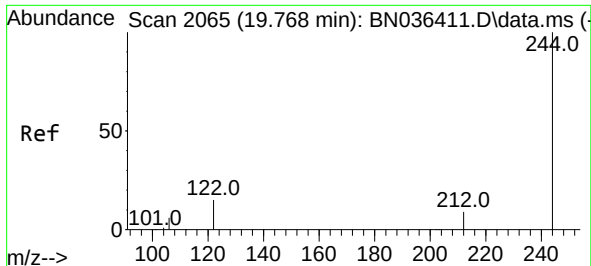


#30
Pyrene
Concen: 0.481 ng
RT: 19.536 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43



Tgt Ion:202 Resp: 8237
Ion Ratio Lower Upper
202 100
200 21.5 16.9 25.3
203 17.5 13.9 20.9

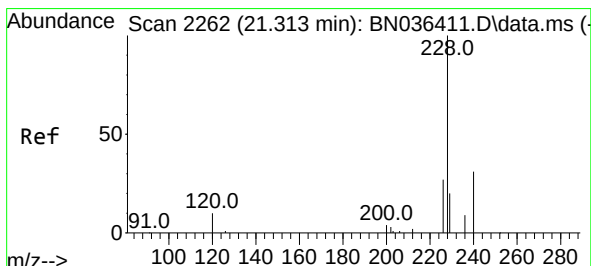
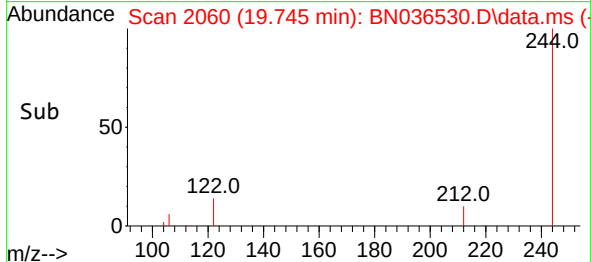
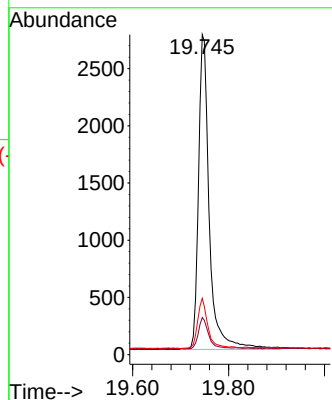
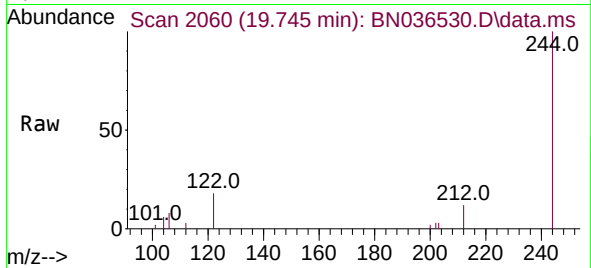




#31
 Terphenyl-d14
 Concen: 0.457 ng
 RT: 19.745 min Scan# 2065
 Delta R.T. -0.000 min
 Lab File: BN036530.D
 Acq: 05 Mar 2025 18:43

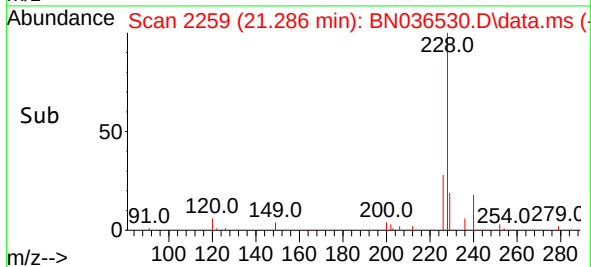
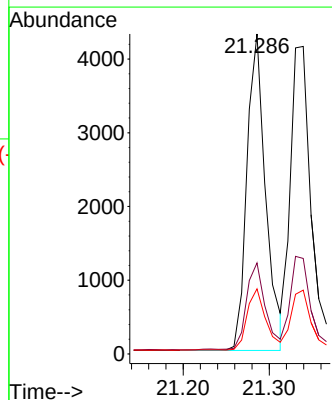
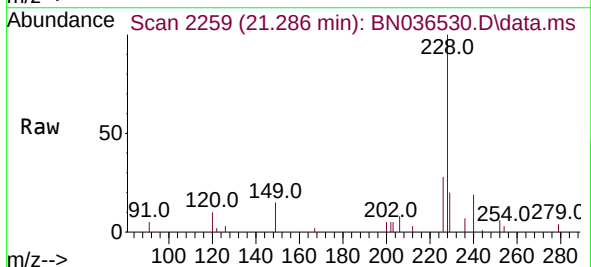
Instrument :
 BNA_N
 ClientSampleId :
 PB166992BS

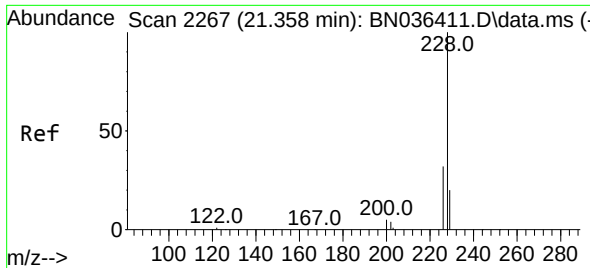
Tgt Ion:244 Resp: 4336
 Ion Ratio Lower Upper
 244 100
 212 11.6 8.1 12.1
 122 17.6 12.8 19.2



#32
 Benzo(a)anthracene
 Concen: 0.444 ng
 RT: 21.286 min Scan# 2259
 Delta R.T. 0.009 min
 Lab File: BN036530.D
 Acq: 05 Mar 2025 18:43

Tgt Ion:228 Resp: 6490
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.2 33.2
 229 20.4 16.5 24.7

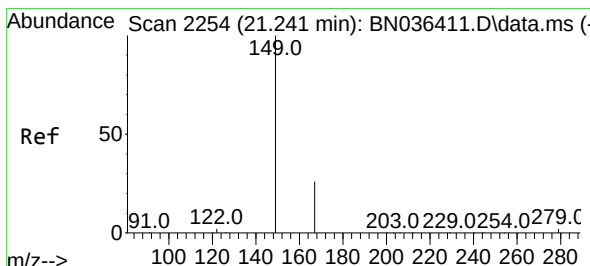
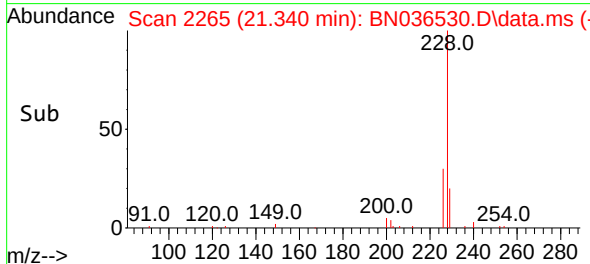
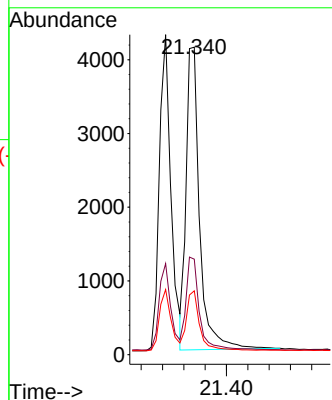
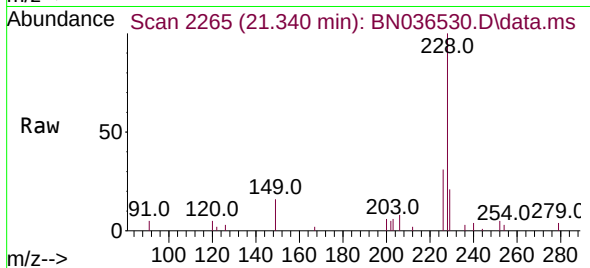




#33
Chrysene
Concen: 0.455 ng
RT: 21.340 min Scan# 21340
Delta R.T. 0.009 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

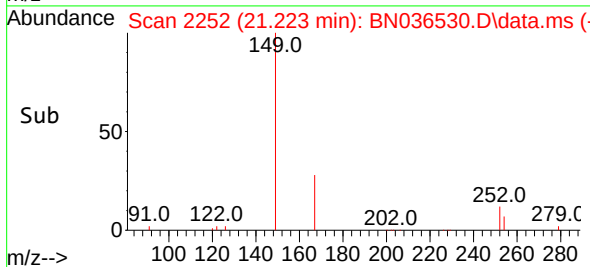
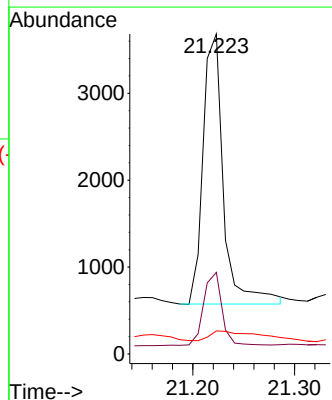
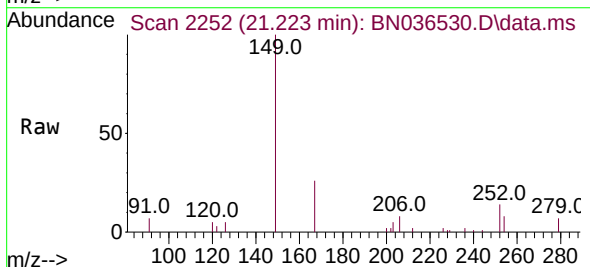
Instrument :
BNA_N
ClientSampleId :
PB166992BS

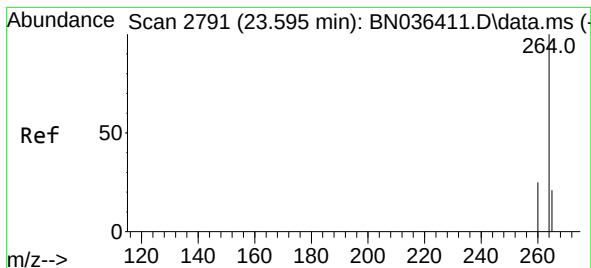
Tgt Ion:228 Resp: 7215
Ion Ratio Lower Upper
228 100
226 31.1 25.5 38.3
229 20.8 16.4 24.6



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.475 ng
RT: 21.223 min Scan# 2252
Delta R.T. 0.009 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion:149 Resp: 4333
Ion Ratio Lower Upper
149 100
167 24.1 21.2 31.8
279 8.1 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.557 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN036530.D

Acq: 05 Mar 2025 18:43

Instrument :

BNA_N

ClientSampleId :

PB166992BS

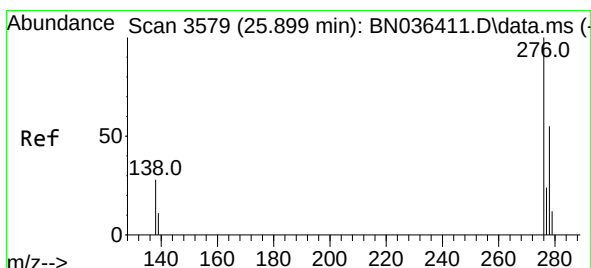
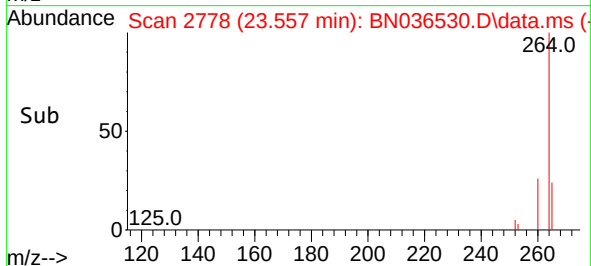
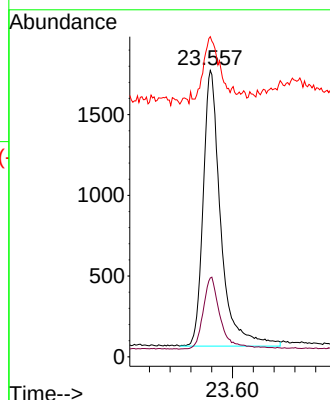
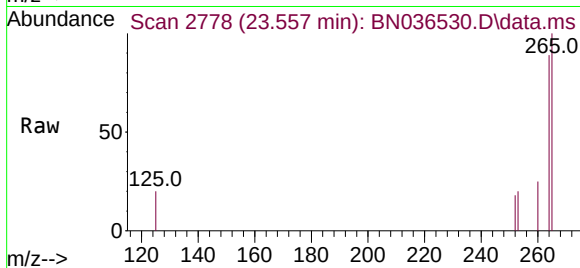
Tgt Ion:264 Resp: 4016

Ion Ratio Lower Upper

264 100

260 27.5 20.9 31.3

265 111.8 60.7 91.1#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.463 ng

RT: 25.844 min Scan# 3560

Delta R.T. 0.006 min

Lab File: BN036530.D

Acq: 05 Mar 2025 18:43

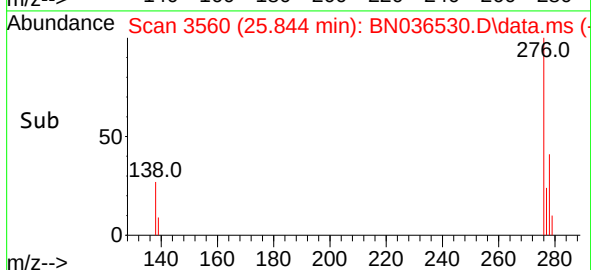
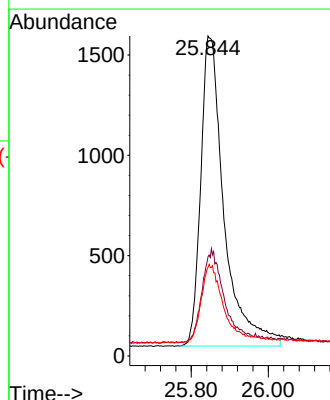
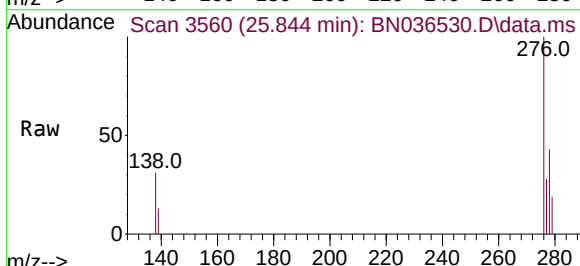
Tgt Ion:276 Resp: 6502

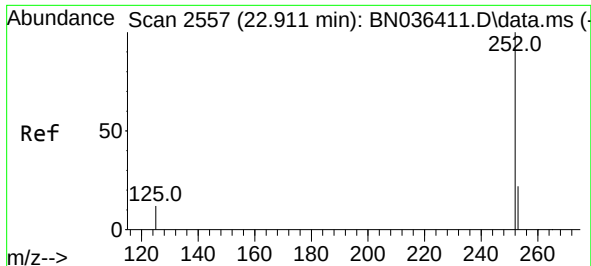
Ion Ratio Lower Upper

276 100

138 27.8 22.2 33.2

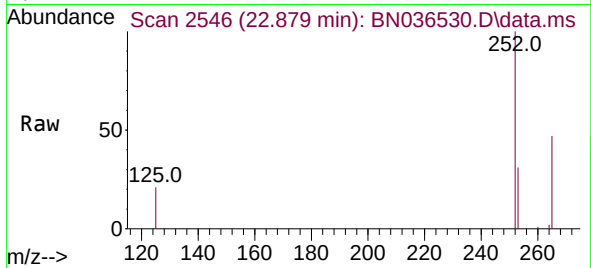
277 23.5 19.8 29.6



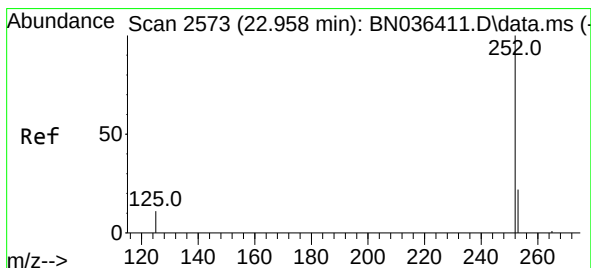
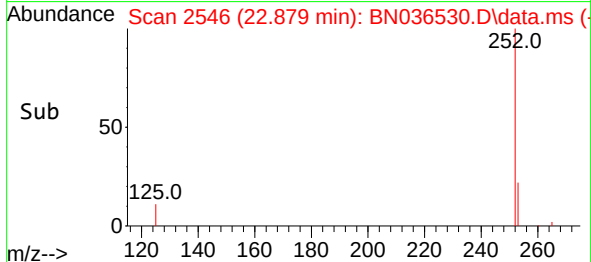
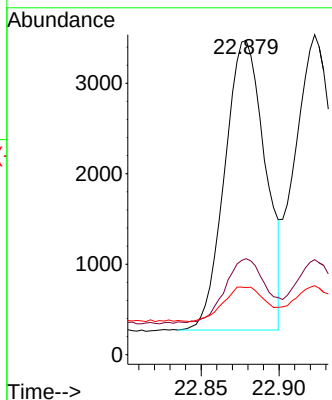


#37
Benzo(b)fluoranthene
Concen: 0.437 ng
RT: 22.879 min Scan# 2546
Delta R.T. 0.006 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Instrument :
BNA_N
ClientSampleId :
PB166992BS

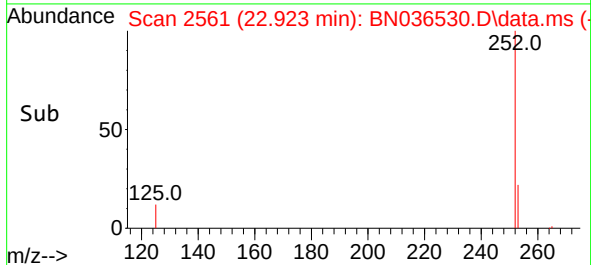
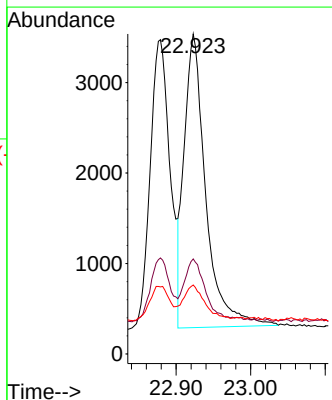
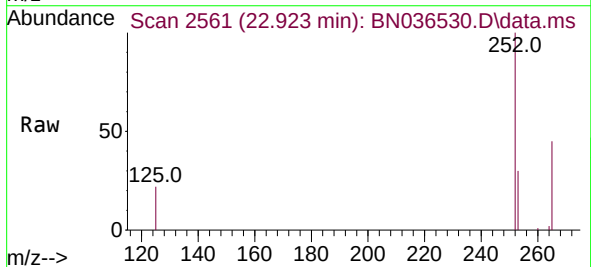


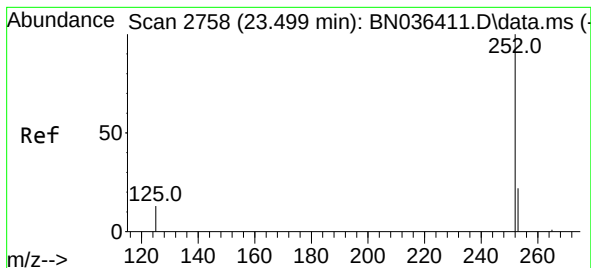
Tgt Ion:252 Resp: 5777
Ion Ratio Lower Upper
252 100
253 30.5 21.9 32.9
125 21.4 15.0 22.6



#38
Benzo(k)fluoranthene
Concen: 0.480 ng
RT: 22.923 min Scan# 2561
Delta R.T. 0.006 min
Lab File: BN036530.D
Acq: 05 Mar 2025 18:43

Tgt Ion:252 Resp: 6530
Ion Ratio Lower Upper
252 100
253 29.7 22.2 33.4
125 21.6 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.467 ng

RT: 23.458 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036530.D

Acq: 05 Mar 2025 18:43

Instrument :

BNA_N

ClientSampleId :

PB166992BS

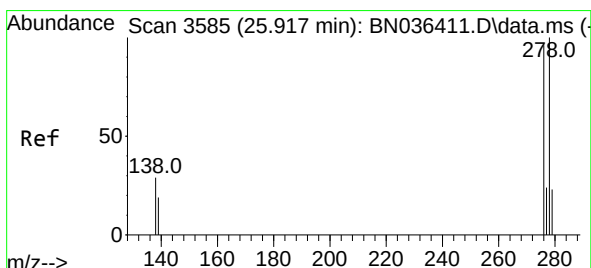
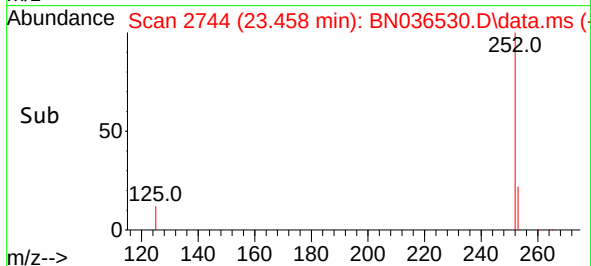
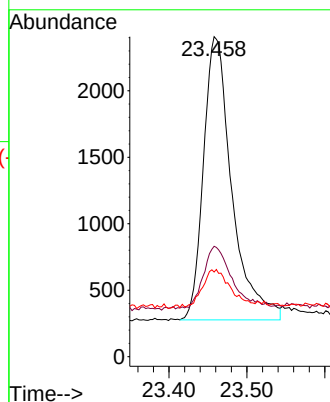
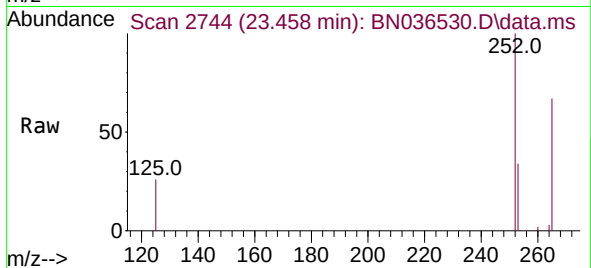
Tgt Ion:252 Resp: 5389

Ion Ratio Lower Upper

252 100

253 34.5 24.4 36.6

125 26.5 18.2 27.2



#40

Dibenzo(a,h)anthracene

Concen: 0.430 ng

RT: 25.867 min Scan# 3568

Delta R.T. 0.015 min

Lab File: BN036530.D

Acq: 05 Mar 2025 18:43

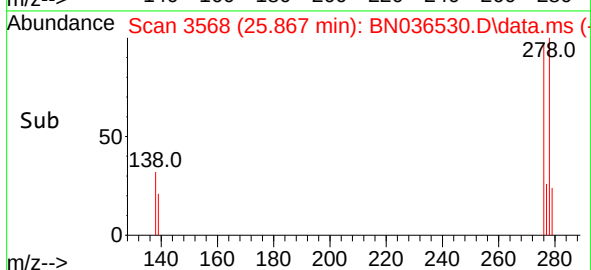
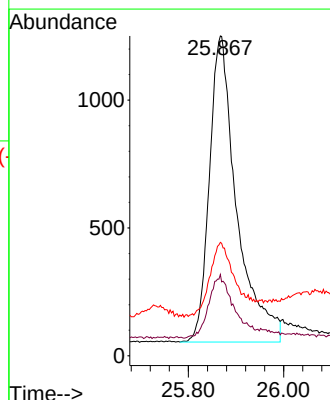
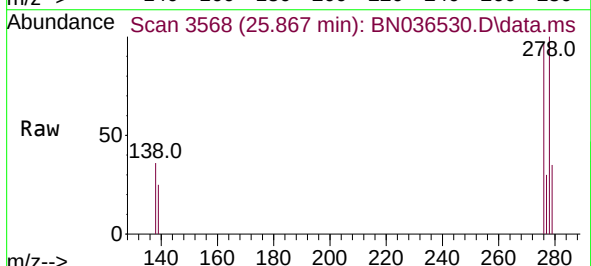
Tgt Ion:278 Resp: 4767

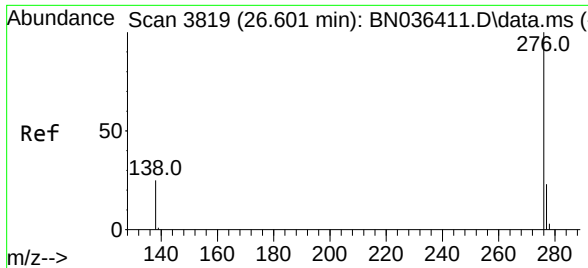
Ion Ratio Lower Upper

278 100

139 25.4 18.5 27.7

279 35.5 24.8 37.2

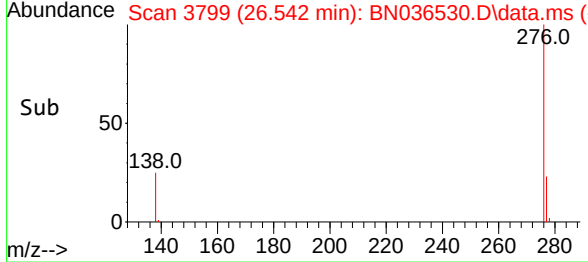
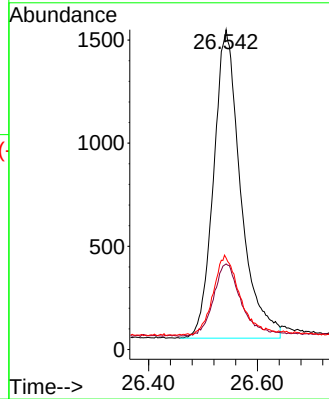
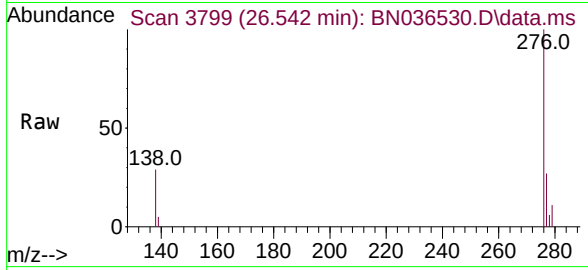




#41
 Benzo(g,h,i)perylene
 Concen: 0.411 ng
 RT: 26.542 min Scan# 31
 Delta R.T. 0.015 min
 Lab File: BN036530.D
 Acq: 05 Mar 2025 18:43

Instrument :
 BNA_N
 ClientSampleId :
 PB166992BS

Tgt Ion:	276	Resp:	5159
Ion	Ratio	Lower	Upper
276	100		
277	26.8	20.7	31.1
138	28.6	21.8	32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
 Data File : BN036531.D
 Acq On : 05 Mar 2025 19:18
 Operator : RC/JU
 Sample : PB166992BSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166992BSD

Quant Time: Mar 06 00:03:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

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

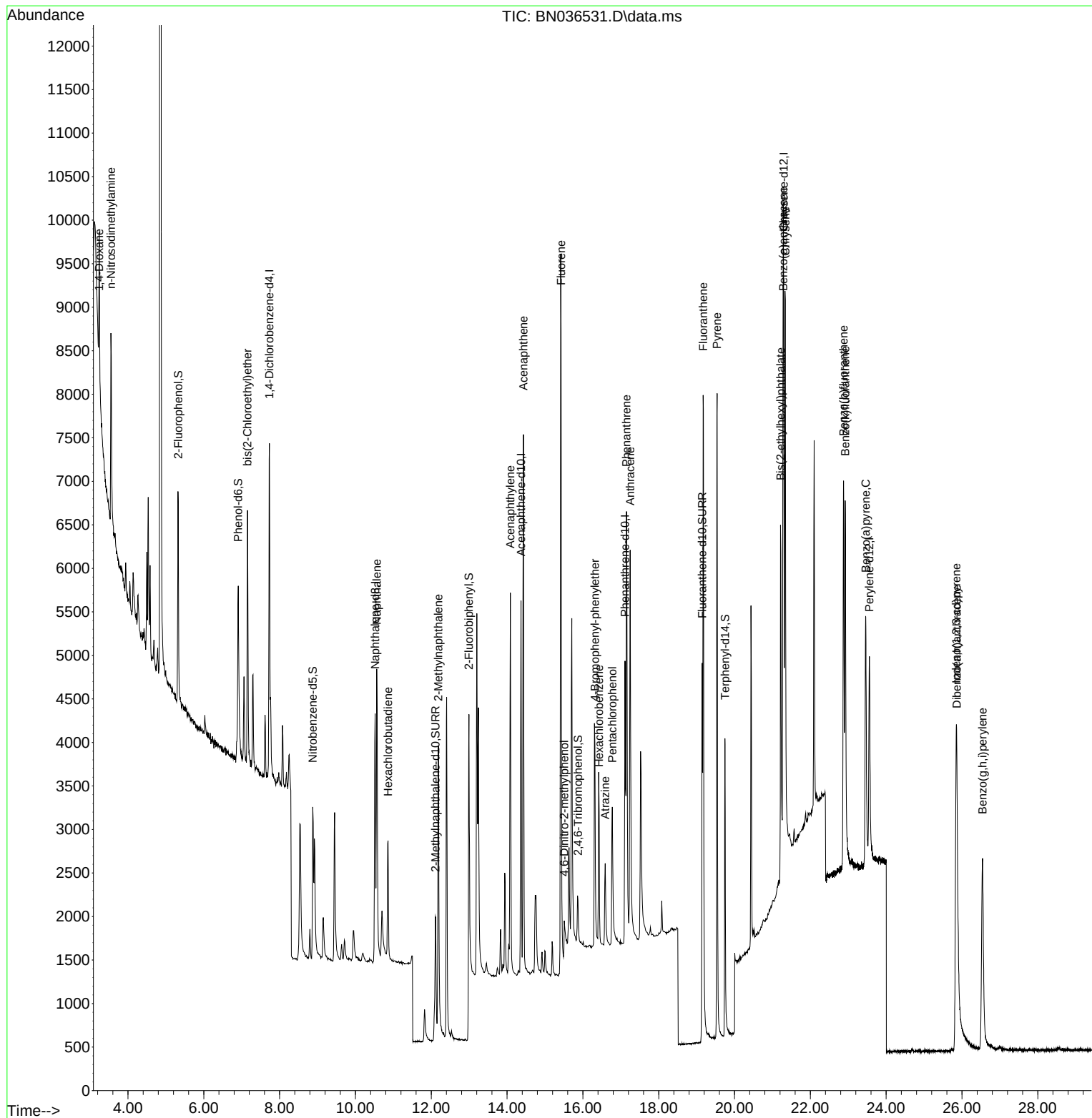
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	1886	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	4343	0.400	ng	0.01
13) Acenaphthene-d10	14.366	164	2423	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	4936	0.400	ng	0.00
29) Chrysene-d12	21.295	240	4101	0.400	ng	# 0.00
35) Perylene-d12	23.557	264	3858	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.327	112	1860	0.417	ng	0.00
5) Phenol-d6	6.908	99	2080	0.398	ng	0.00
8) Nitrobenzene-d5	8.875	82	1742	0.407	ng	0.00
11) 2-Methylnaphthalene-d10	12.111	152	3306	0.495	ng	0.00
14) 2,4,6-Tribromophenol	15.870	330	407	0.339	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	5633	0.618	ng	0.00
27) Fluoranthene-d10	19.146	212	5524	0.402	ng	0.00
31) Terphenyl-d14	19.750	244	4044	0.462	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.239	88	775	0.376	ng	# 58
3) n-Nitrosodimethylamine	3.550	42	1630	0.455	ng	91
6) bis(2-Chloroethyl)ether	7.154	93	2180	0.399	ng	97
9) Naphthalene	10.562	128	4933	0.394	ng	98
10) Hexachlorobutadiene	10.861	225	1251	0.410	ng	# 99
12) 2-Methylnaphthalene	12.187	142	3089	0.376	ng	97
16) Acenaphthylene	14.088	152	5041	0.471	ng	100
17) Acenaphthene	14.430	154	3166	0.443	ng	98
18) Fluorene	15.425	166	4113	0.404	ng	97
20) 4,6-Dinitro-2-methylph...	15.510	198	269	0.278	ng	# 81
21) 4-Bromophenyl-phenylether	16.317	248	1233	0.419	ng	# 81
22) Hexachlorobenzene	16.429	284	1525	0.419	ng	96
23) Atrazine	16.590	200	1087	0.442	ng	95
24) Pentachlorophenol	16.776	266	1113	0.645	ng	99
25) Phenanthrene	17.149	178	6334	0.444	ng	99
26) Anthracene	17.248	178	6001	0.477	ng	99
28) Fluoranthene	19.174	202	7495	0.428	ng	99
30) Pyrene	19.541	202	7760	0.491	ng	99
32) Benzo(a)anthracene	21.286	228	6200	0.459	ng	98
33) Chrysene	21.340	228	6883	0.471	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	3851	0.458	ng	99
36) Indeno(1,2,3-cd)pyrene	25.849	276	6430	0.477	ng	99
37) Benzo(b)fluoranthene	22.876	252	5588	0.440	ng	97
38) Benzo(k)fluoranthene	22.920	252	6430	0.492	ng	95
39) Benzo(a)pyrene	23.461	252	5395	0.487	ng	94
40) Dibenzo(a,h)anthracene	25.864	278	4774	0.449	ng	96
41) Benzo(g,h,i)perylene	26.542	276	5348	0.443	ng	98

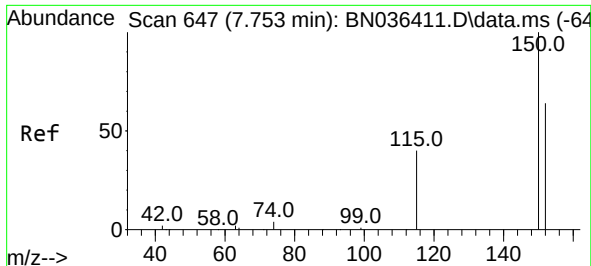
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
 Data File : BN036531.D
 Acq On : 05 Mar 2025 19:18
 Operator : RC/JU
 Sample : PB166992BSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166992BSD

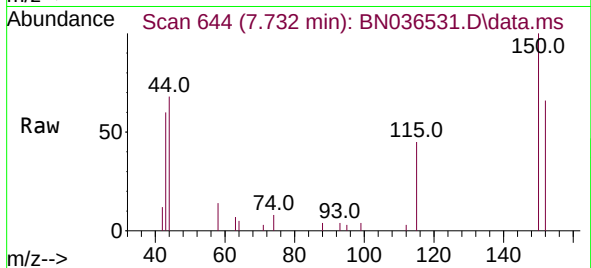
Quant Time: Mar 06 00:03:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration



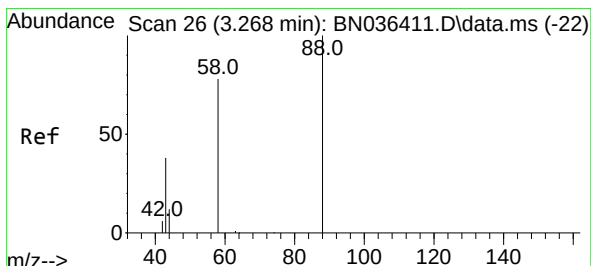
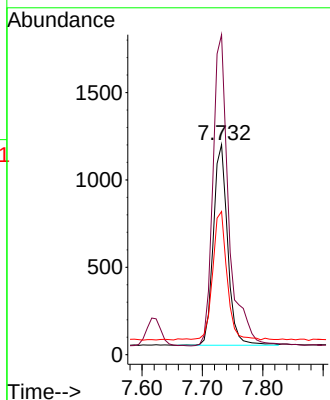
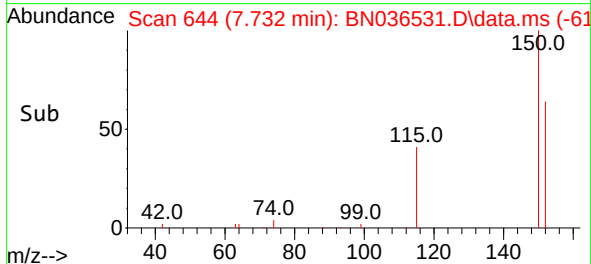


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.732 min Scan# 64
 Delta R.T. -0.000 min
 Lab File: BN036531.D
 Acq: 05 Mar 2025 19:18

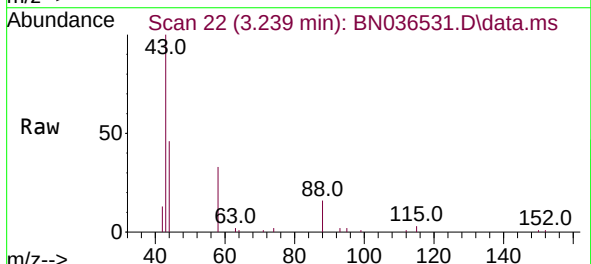
Instrument :
 BNA_N
 ClientSampleId :
 PB166992BSD



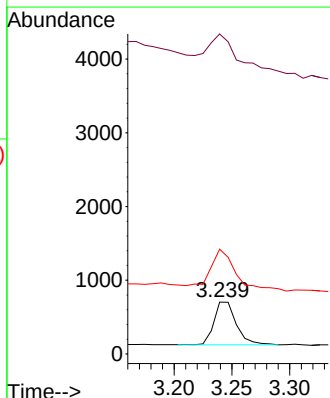
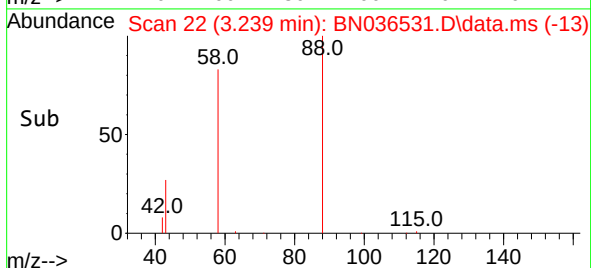
Tgt Ion:152 Resp: 1886
 Ion Ratio Lower Upper
 152 100
 150 152.3 123.7 185.5
 115 68.1 52.5 78.7

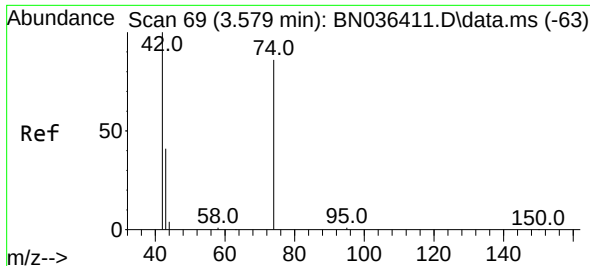


#2
 1,4-Dioxane
 Concen: 0.376 ng
 RT: 3.239 min Scan# 22
 Delta R.T. -0.007 min
 Lab File: BN036531.D
 Acq: 05 Mar 2025 19:18



Tgt Ion: 88 Resp: 775
 Ion Ratio Lower Upper
 88 100
 43 110.6 33.7 50.5#
 58 94.6 68.9 103.3

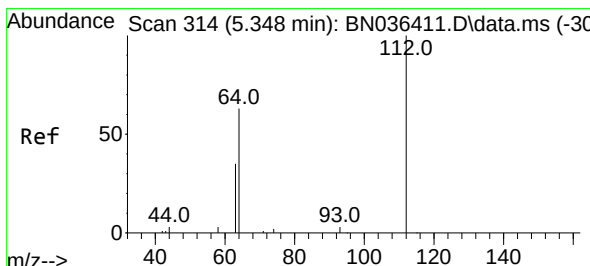
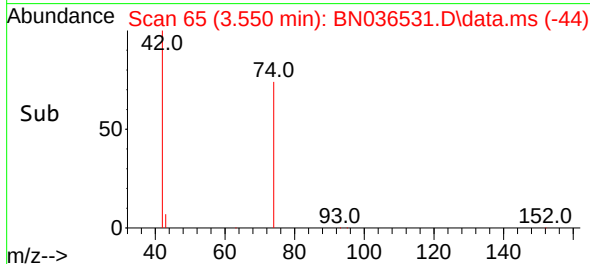
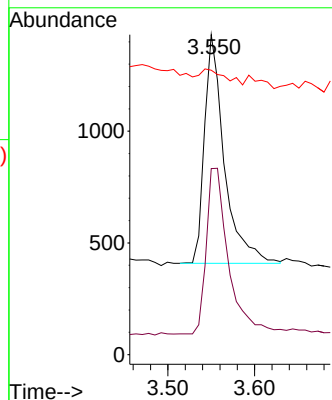
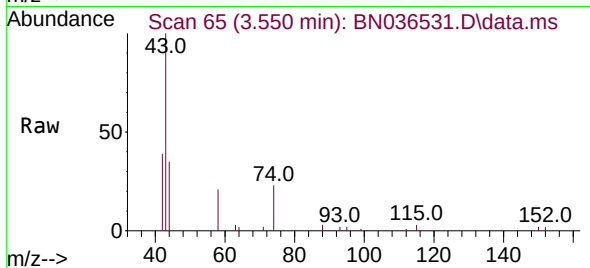




#3
n-Nitrosodimethylamine
Concen: 0.455 ng
RT: 3.550 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

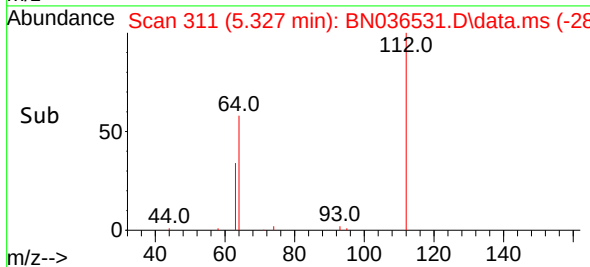
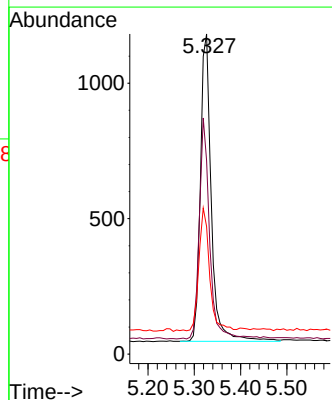
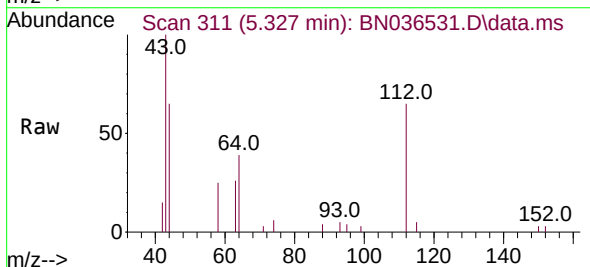
Instrument :
BNA_N
ClientSampleId :
PB166992BSD

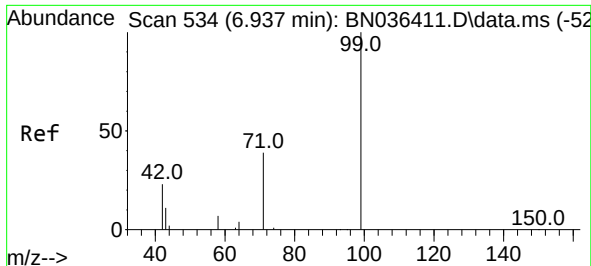
Tgt Ion: 42 Resp: 1630
Ion Ratio Lower Upper
42 100
74 81.1 71.8 107.6
44 8.5 7.8 11.6



#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.327 min Scan# 311
Delta R.T. 0.007 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion: 112 Resp: 1860
Ion Ratio Lower Upper
112 100
64 68.5 53.4 80.0
63 39.3 30.3 45.5

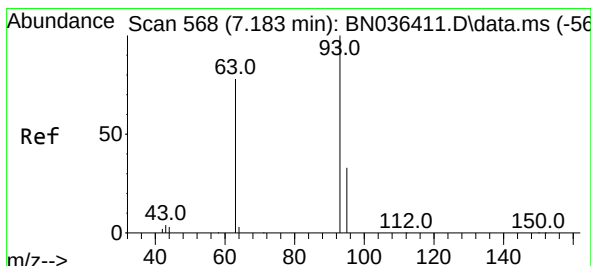
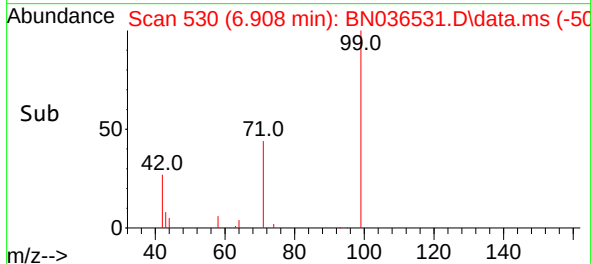
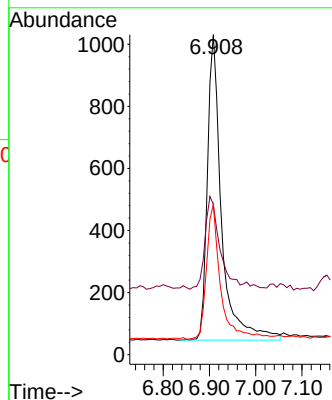
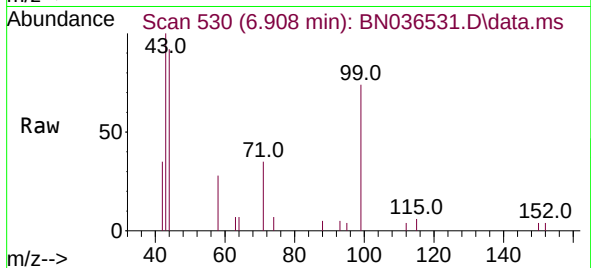




#5
Phenol-d6
Concen: 0.398 ng
RT: 6.908 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

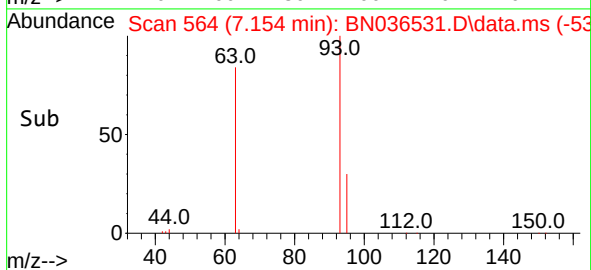
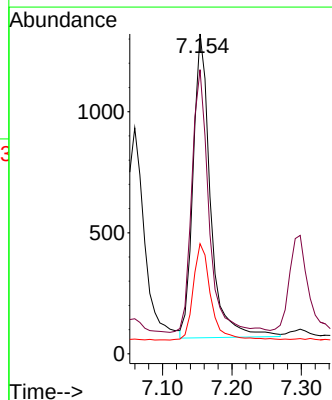
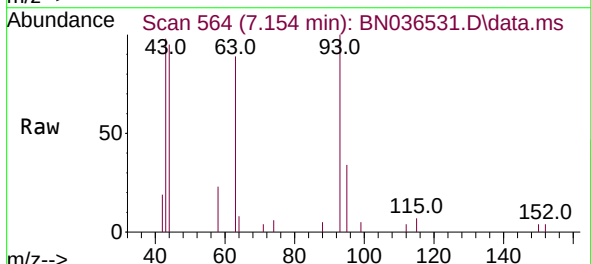
Instrument :
BNA_N
ClientSampleId :
PB166992BSD

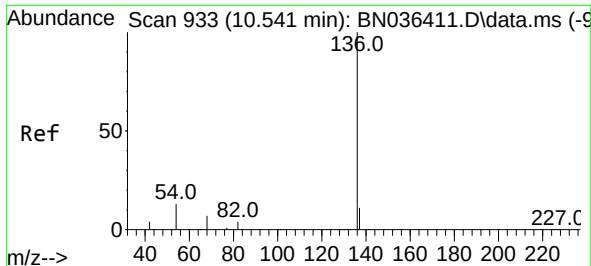
Tgt Ion: 99 Resp: 2080
Ion Ratio Lower Upper
99 100
42 31.8 21.7 32.5
71 43.9 32.6 49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.399 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion: 93 Resp: 2180
Ion Ratio Lower Upper
93 100
63 85.4 66.3 99.5
95 31.7 26.2 39.4

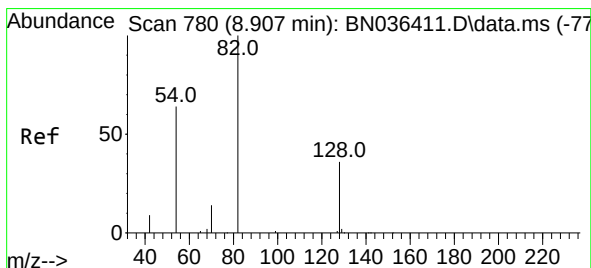
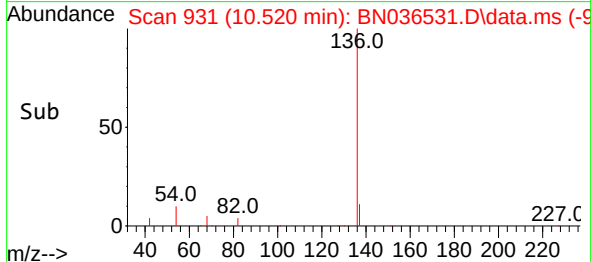
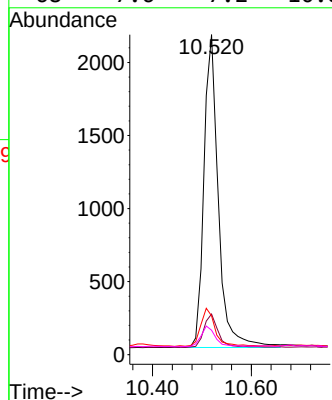
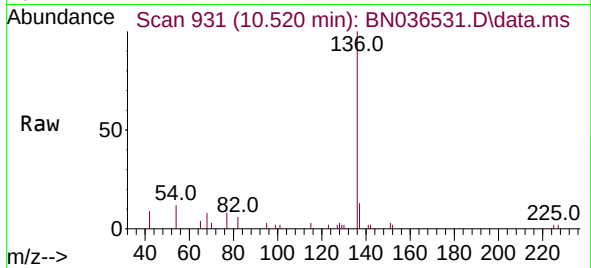




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

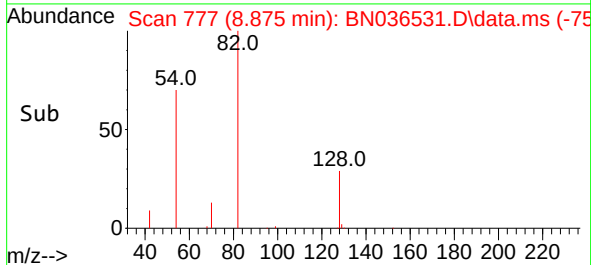
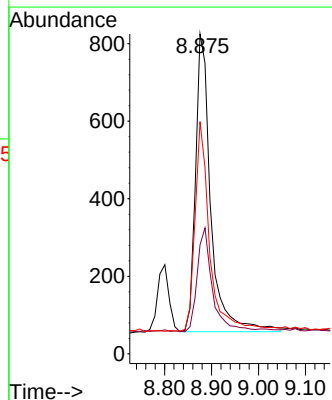
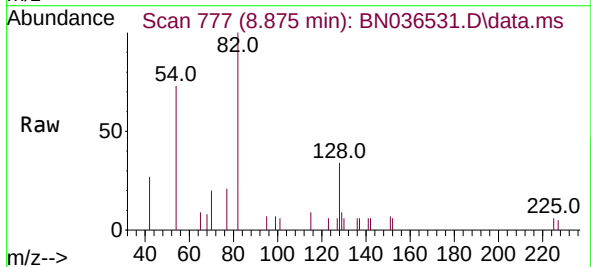
Instrument :
BNA_N
ClientSampleId :
PB166992BSD

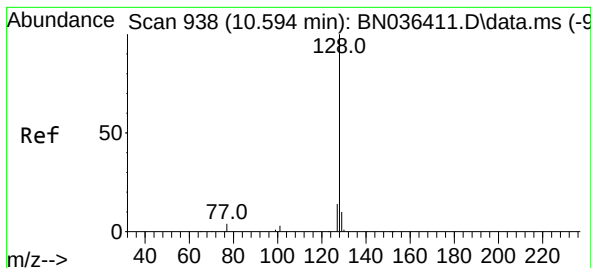
Tgt Ion:	136	Resp:	4343
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.1	15.1
54	12.1	11.8	17.6
68	7.6	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.407 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion:	82	Resp:	1742
Ion	Ratio	Lower	Upper
82	100		
128	34.1	31.9	47.9
54	72.6	53.1	79.7





#9

Naphthalene

Concen: 0.394 ng

RT: 10.562 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036531.D

Acq: 05 Mar 2025 19:18

Instrument :

BNA_N

ClientSampleId :

PB166992BSD

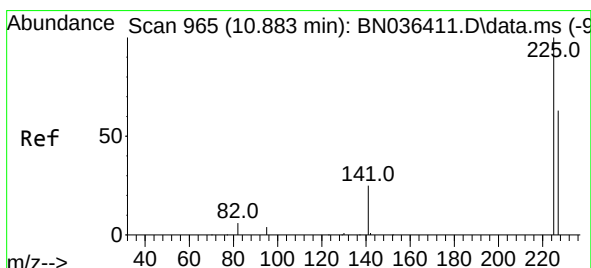
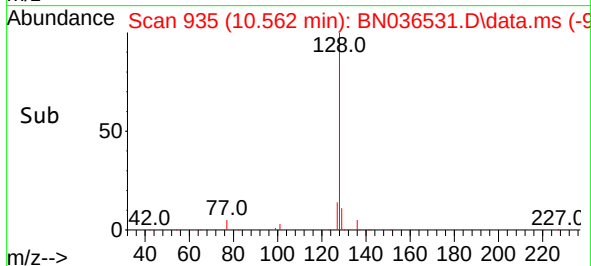
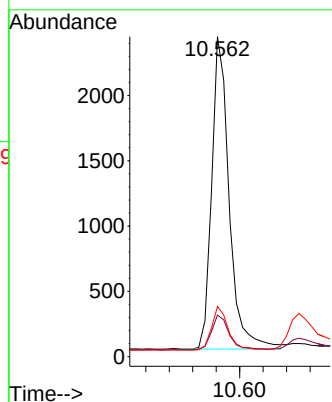
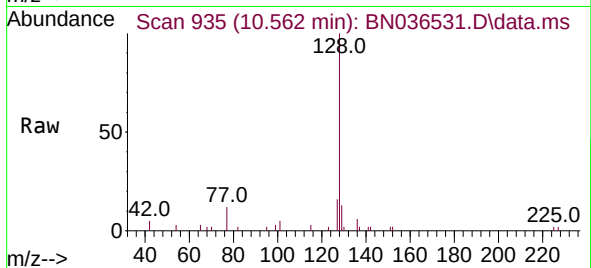
Tgt Ion:128 Resp: 4933

Ion Ratio Lower Upper

128 100

129 13.0 9.6 14.4

127 15.7 12.0 18.0



#10

Hexachlorobutadiene

Concen: 0.410 ng

RT: 10.861 min Scan# 963

Delta R.T. 0.011 min

Lab File: BN036531.D

Acq: 05 Mar 2025 19:18

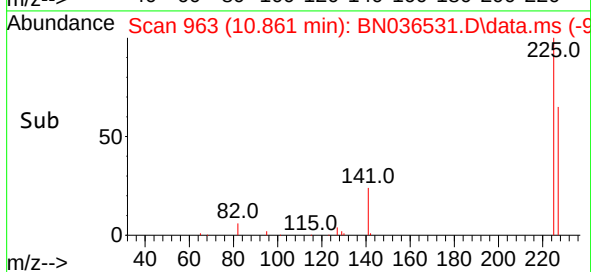
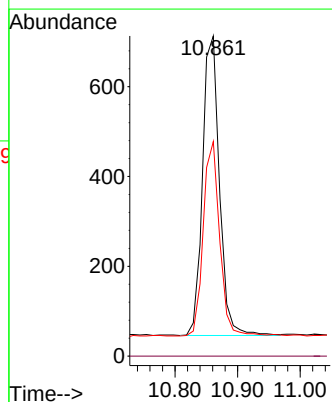
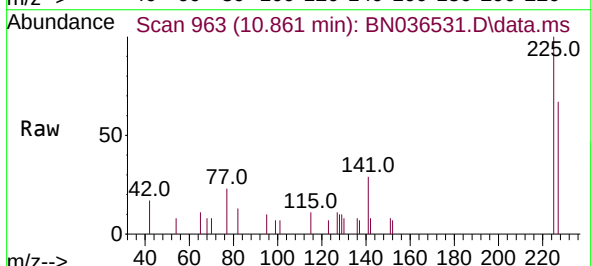
Tgt Ion:225 Resp: 1251

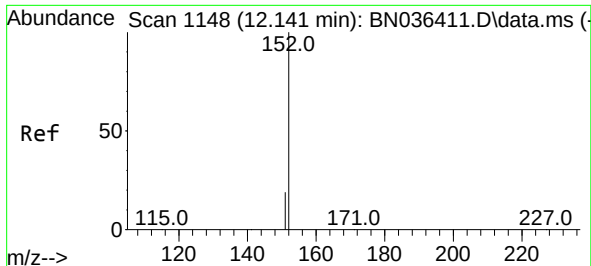
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.1 50.9 76.3

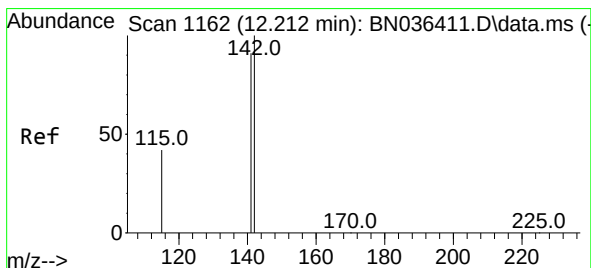
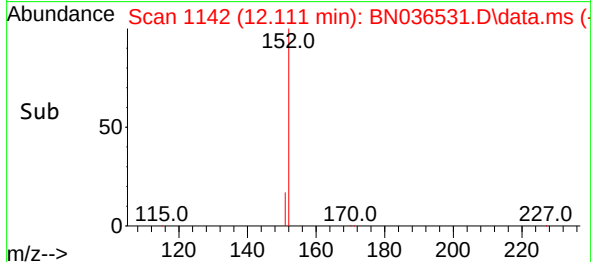
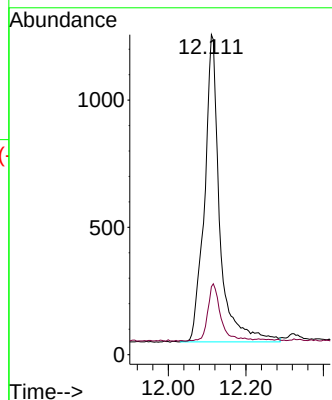
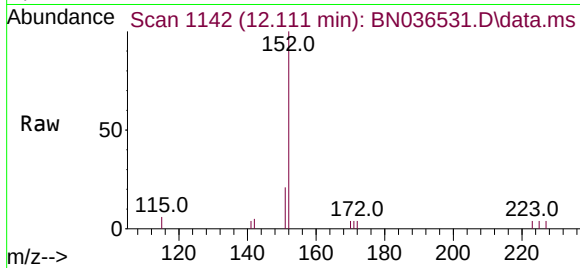




#11
2-Methylnaphthalene-d10
Concen: 0.495 ng
RT: 12.111 min Scan# 1142
Delta R.T. 0.005 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

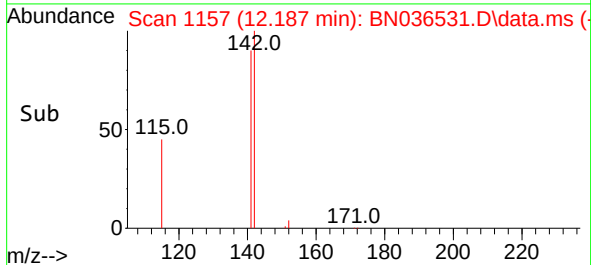
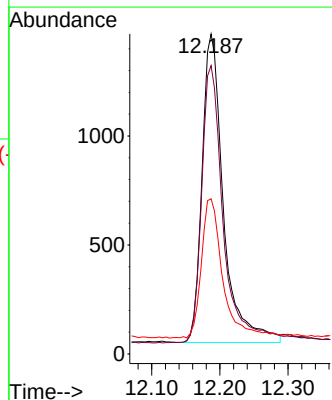
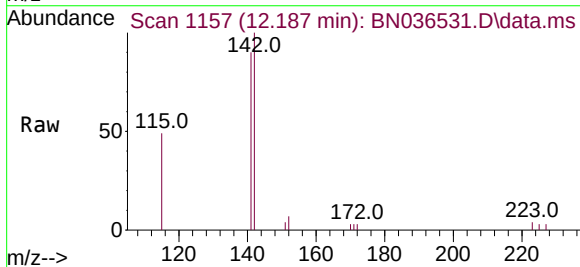
Instrument :
BNA_N
ClientSampleId :
PB166992BSD

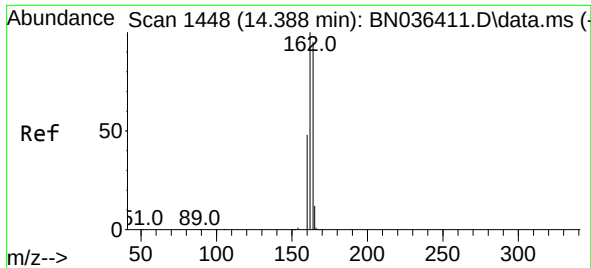
Tgt Ion:152 Resp: 3306
Ion Ratio Lower Upper
152 100
151 15.1 16.6 25.0#



#12
2-Methylnaphthalene
Concen: 0.376 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion:142 Resp: 3089
Ion Ratio Lower Upper
142 100
141 90.1 72.8 109.2
115 48.5 35.5 53.3

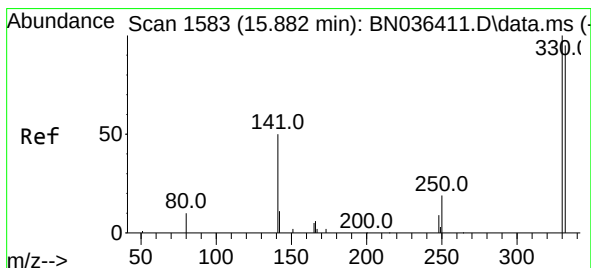
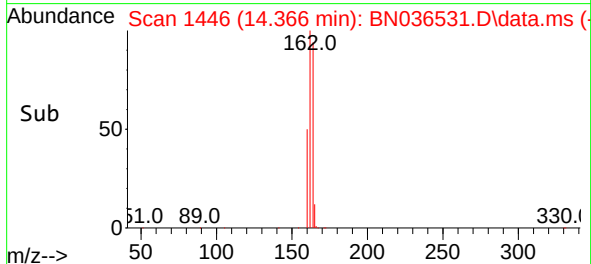
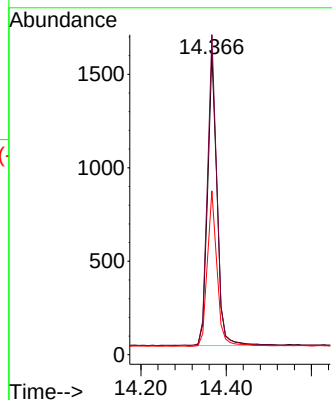
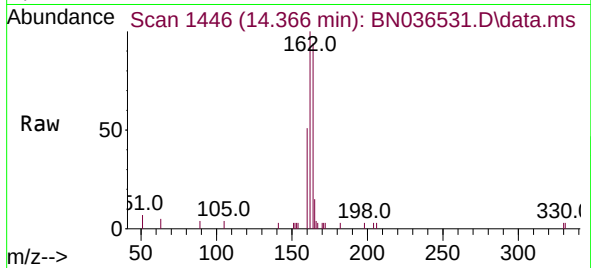




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.366 min Scan# 1446
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

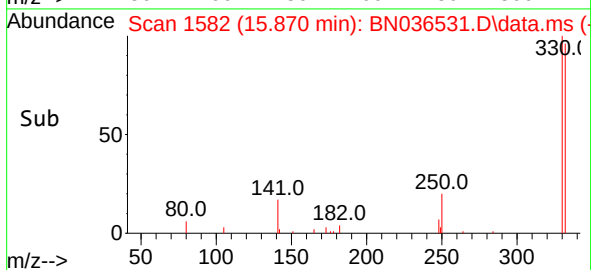
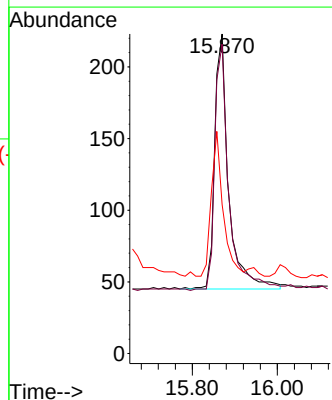
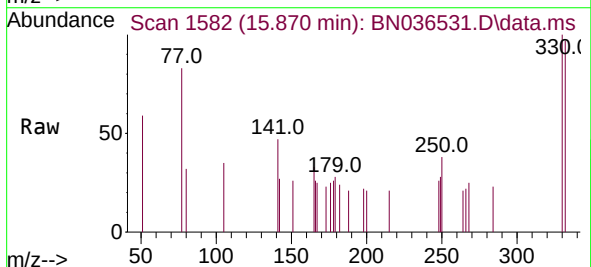
Instrument :
BNA_N
ClientSampleId :
PB166992BSD

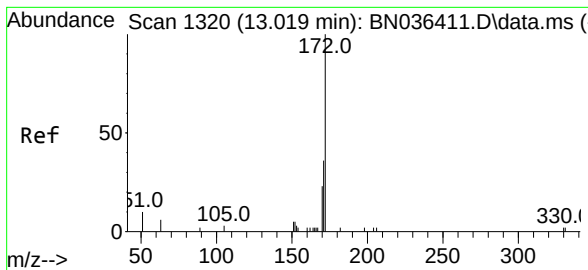
Tgt Ion:164 Resp: 2423
Ion Ratio Lower Upper
164 100
162 106.0 84.1 126.1
160 54.3 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.339 ng
RT: 15.870 min Scan# 1582
Delta R.T. 0.012 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion:330 Resp: 407
Ion Ratio Lower Upper
330 100
332 98.3 76.6 114.8
141 48.4 37.8 56.8

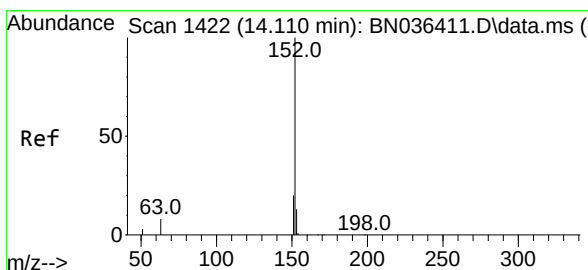
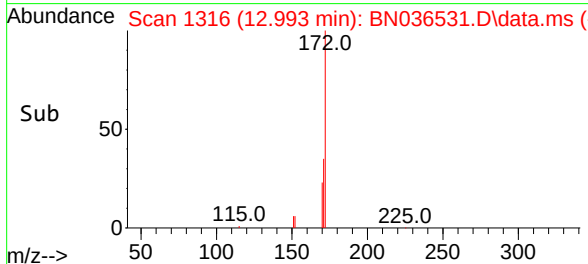
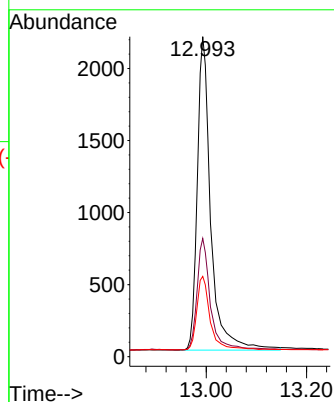
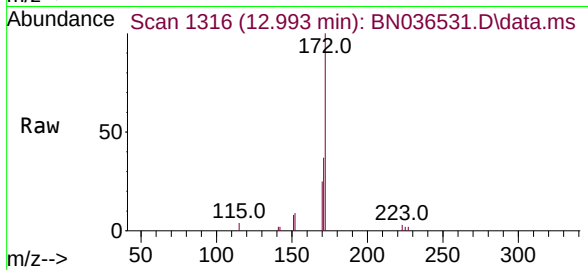




#15
2-Fluorobiphenyl
Concen: 0.618 ng
RT: 12.993 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

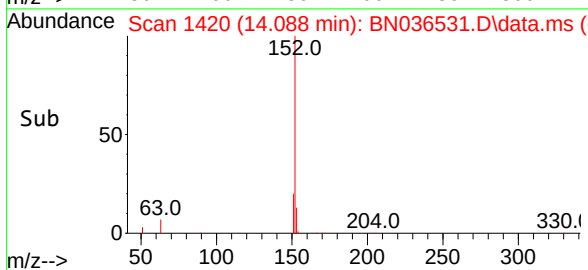
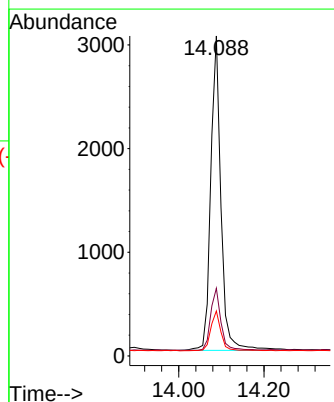
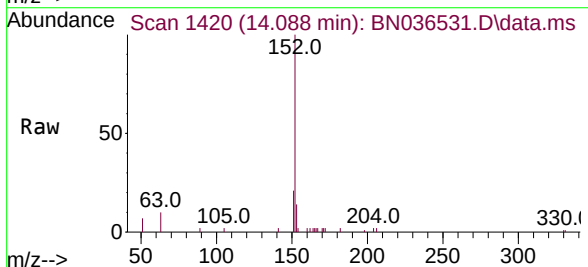
Instrument :
BNA_N
ClientSampleId :
PB166992BSD

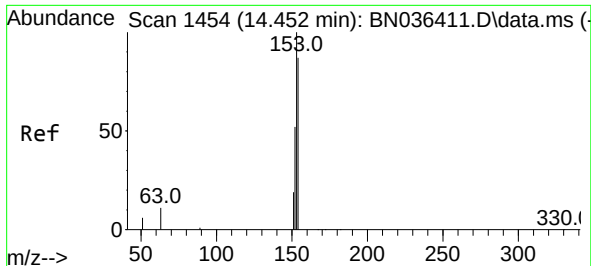
Tgt Ion:172 Resp: 5633
Ion Ratio Lower Upper
172 100
171 36.9 29.6 44.4
170 25.1 19.8 29.6



#16
Acenaphthylene
Concen: 0.471 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion:152 Resp: 5041
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.8
153 12.7 10.2 15.2

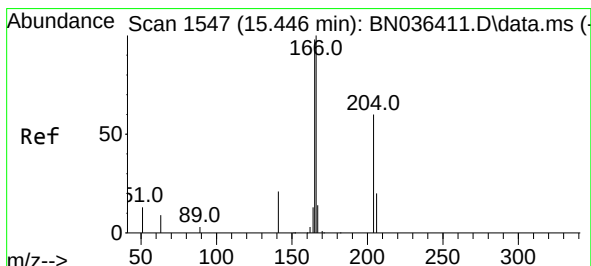
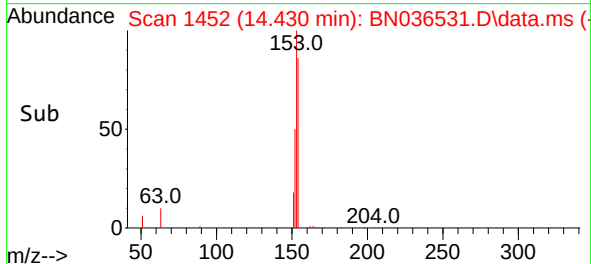
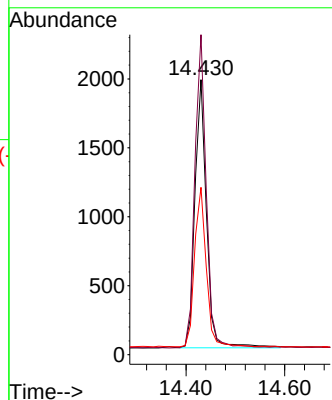
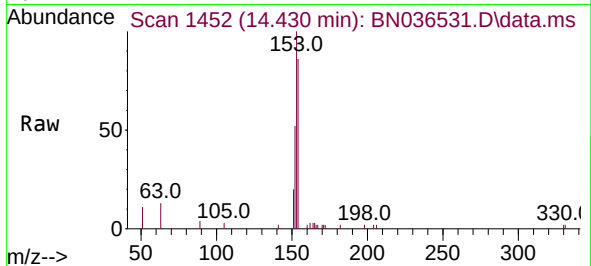




#17
Acenaphthene
Concen: 0.443 ng
RT: 14.430 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

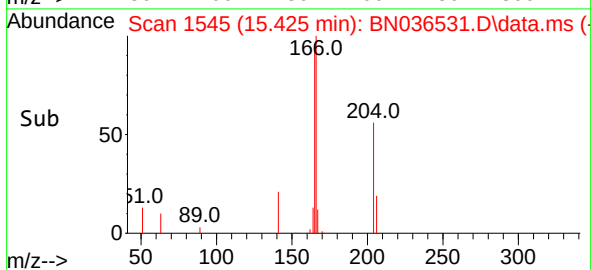
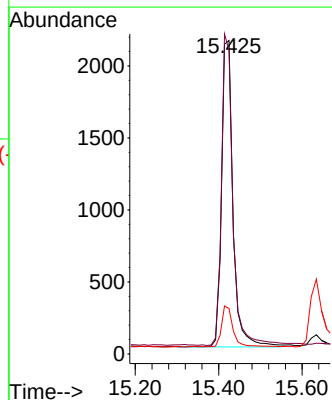
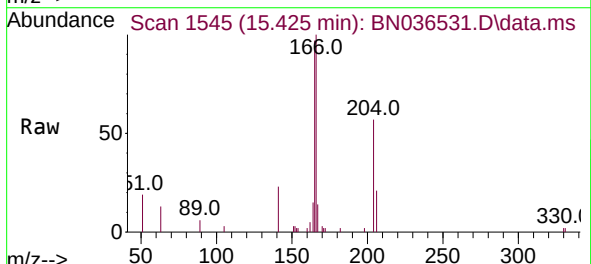
Instrument :
BNA_N
ClientSampleId :
PB166992BSD

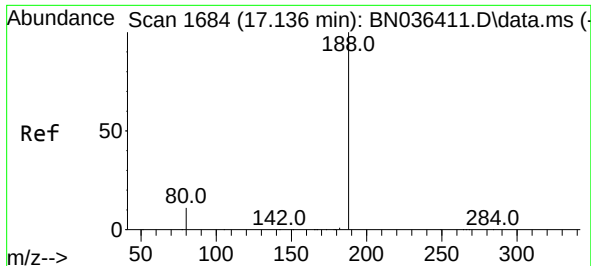
Tgt Ion:154 Resp: 3166
Ion Ratio Lower Upper
154 100
153 115.1 93.3 139.9
152 59.6 48.8 73.2



#18
Fluorene
Concen: 0.404 ng
RT: 15.425 min Scan# 1545
Delta R.T. 0.011 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion:166 Resp: 4113
Ion Ratio Lower Upper
166 100
165 102.2 79.5 119.3
167 13.4 10.4 15.6

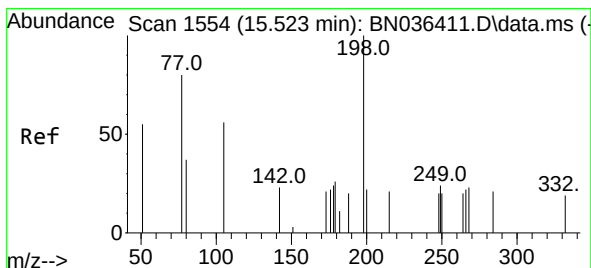
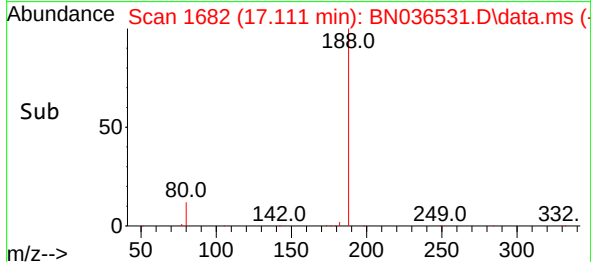
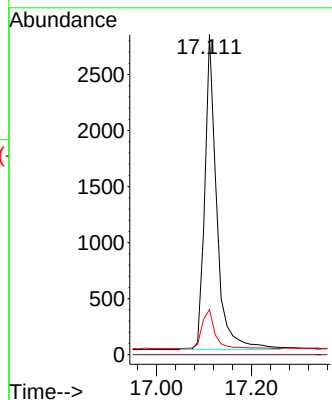
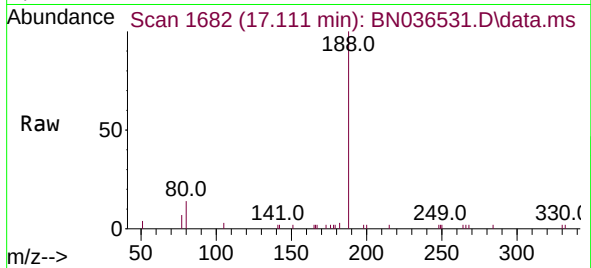




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

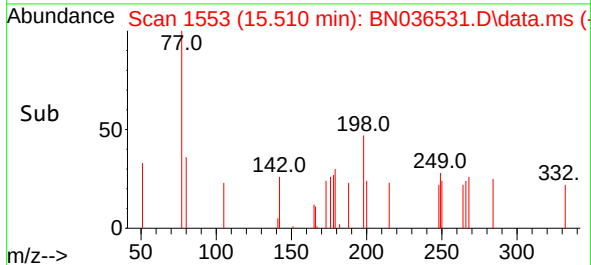
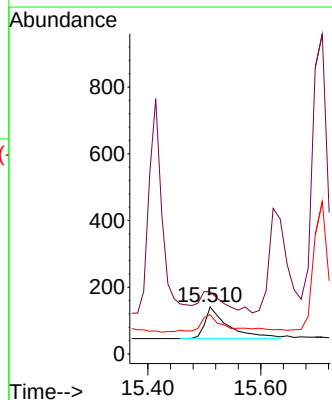
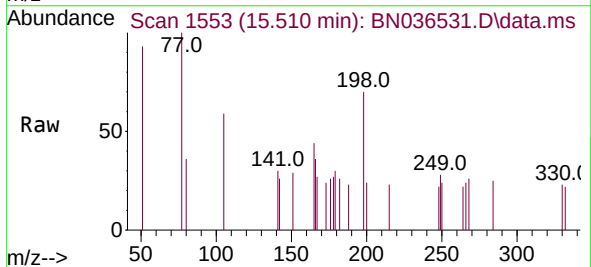
Instrument :
BNA_N
ClientSampleId :
PB166992BSD

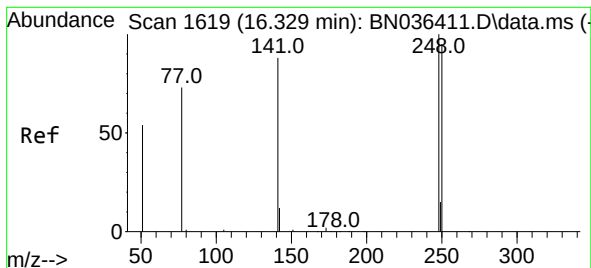
Tgt Ion:188 Resp: 4936
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.1 9.8 14.6



#20
4,6-Dinitro-2-methylphenol
Concen: 0.278 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion:198 Resp: 269
Ion Ratio Lower Upper
198 100
51 131.9 86.6 129.8#
105 83.7 57.5 86.3

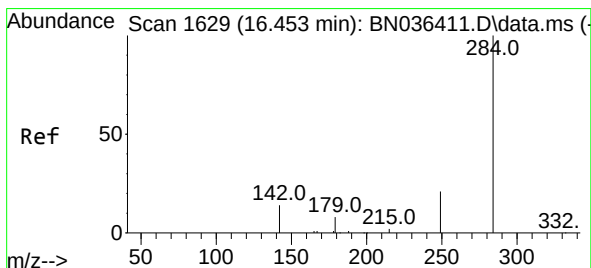
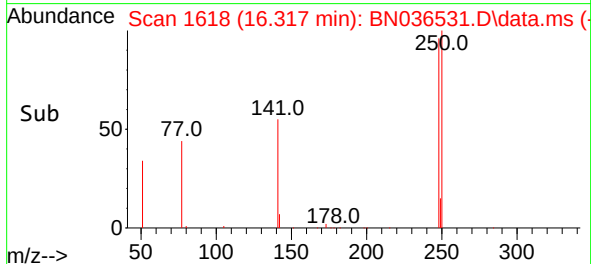
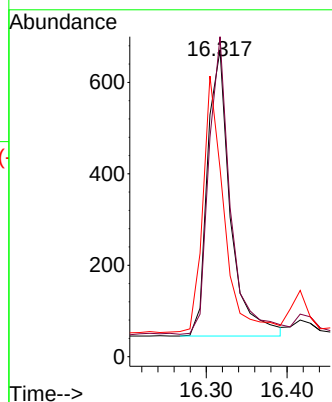
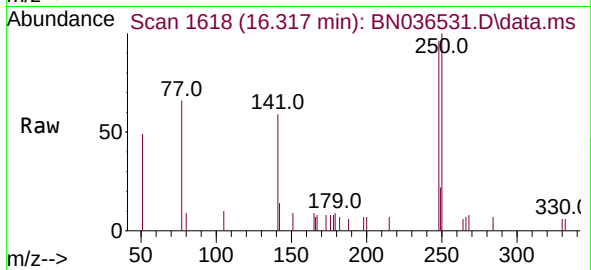




#21
4-Bromophenyl-phenylether
Concen: 0.419 ng
RT: 16.317 min Scan# 1618
Delta R.T. 0.012 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

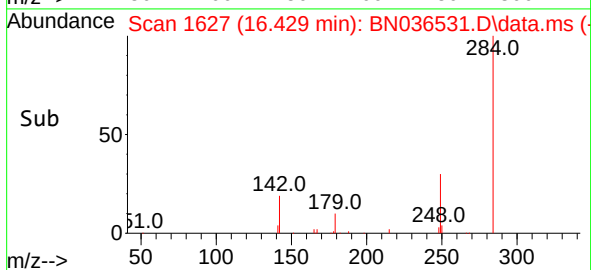
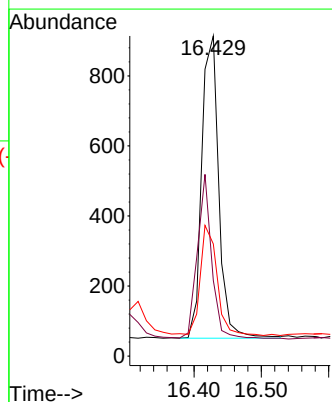
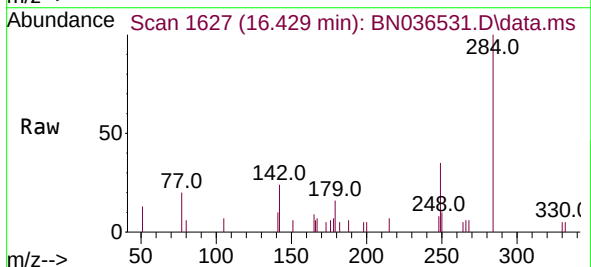
Instrument :
BNA_N
ClientSampleId :
PB166992BSD

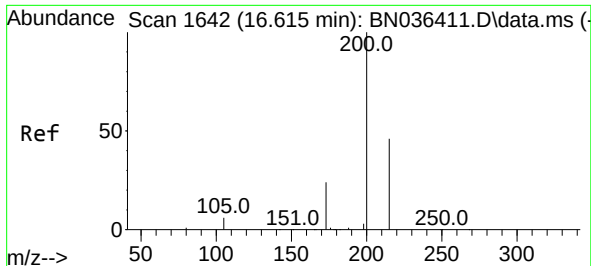
Tgt Ion:248 Resp: 1233
Ion Ratio Lower Upper
248 100
250 104.3 76.1 114.1
141 61.4 71.7 107.5#



#22
Hexachlorobenzene
Concen: 0.419 ng
RT: 16.429 min Scan# 1627
Delta R.T. 0.012 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion:284 Resp: 1525
Ion Ratio Lower Upper
284 100
142 46.0 33.4 50.0
249 35.9 28.6 43.0

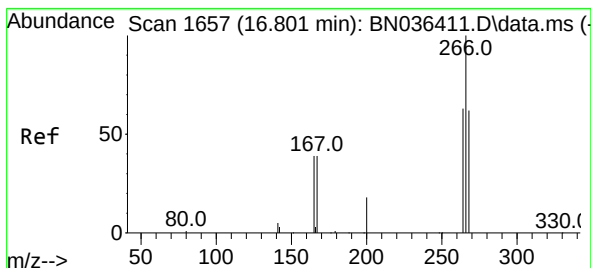
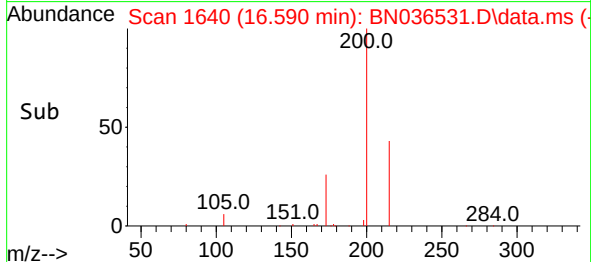
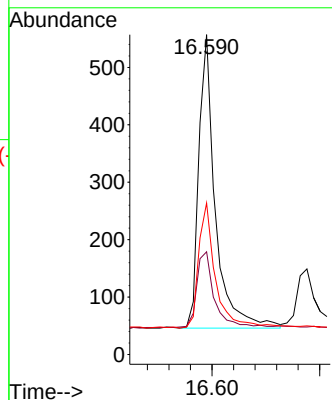
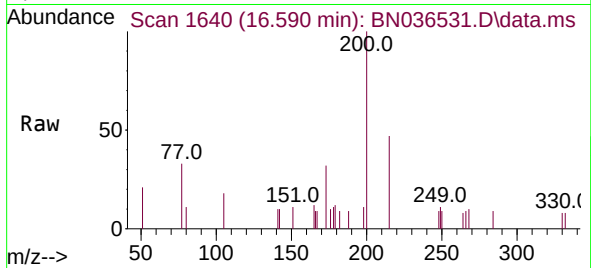




#23
Atrazine
Concen: 0.442 ng
RT: 16.590 min Scan# 1640
Delta R.T. 0.012 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

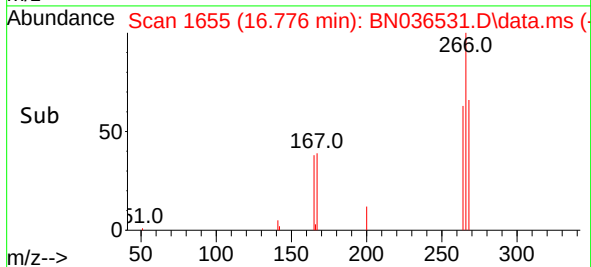
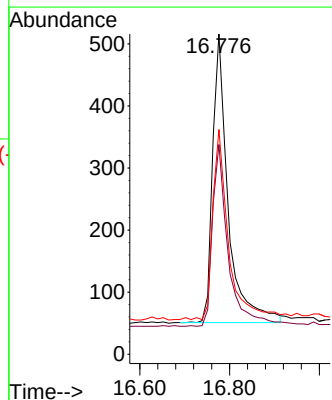
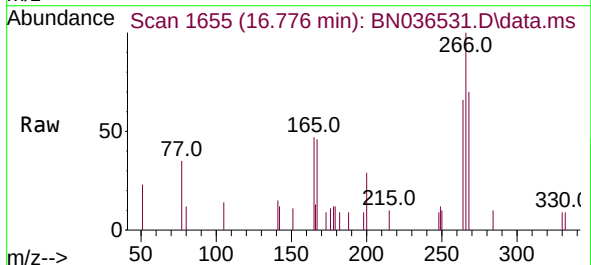
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BNA_N
ClientSampleId :
PB166992BSD

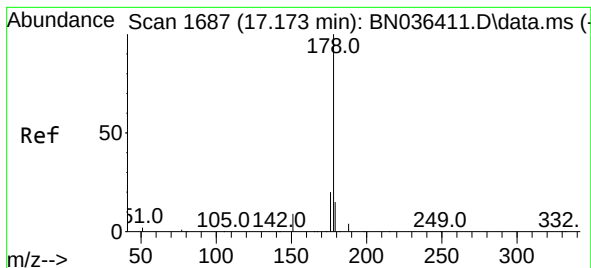
Tgt Ion:200 Resp: 1087
Ion Ratio Lower Upper
200 100
173 32.1 23.2 34.8
215 47.4 40.0 60.0



#24
Pentachlorophenol
Concen: 0.645 ng
RT: 16.776 min Scan# 1655
Delta R.T. 0.012 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion:266 Resp: 1113
Ion Ratio Lower Upper
266 100
264 63.2 50.6 76.0
268 66.8 51.9 77.9

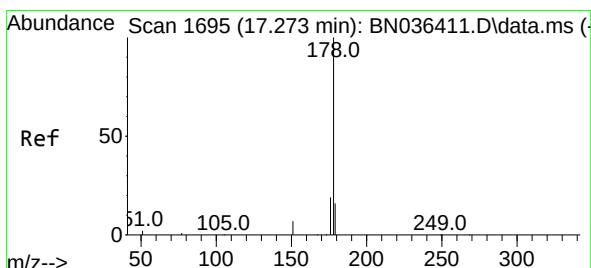
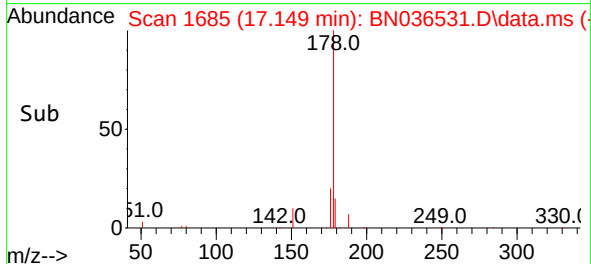
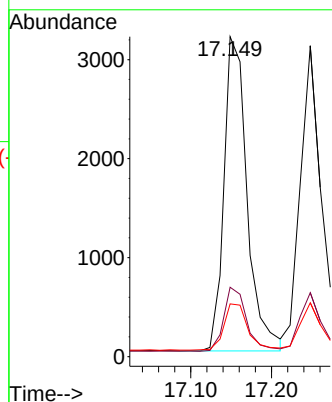
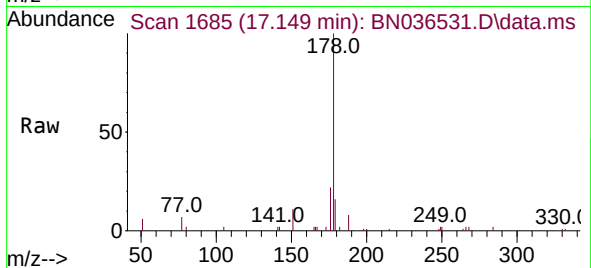




#25
Phenanthrene
Concen: 0.444 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

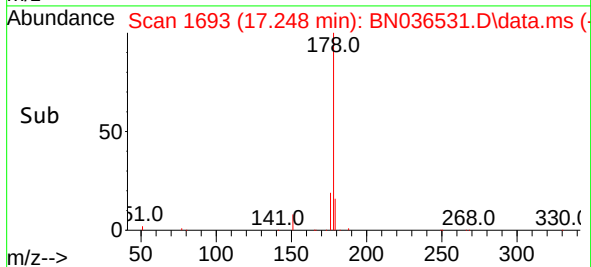
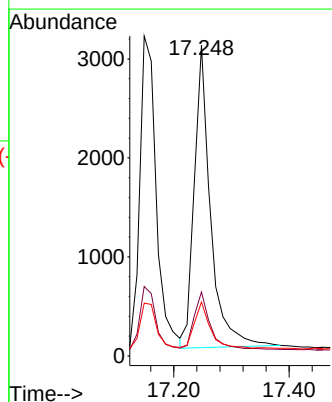
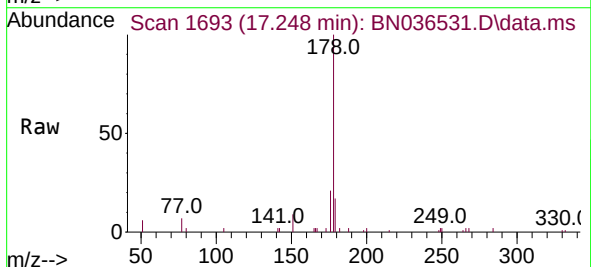
Instrument :
BNA_N
ClientSampleId :
PB166992BSD

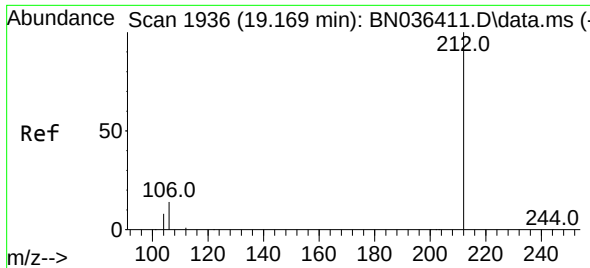
Tgt Ion:178 Resp: 6334
Ion Ratio Lower Upper
178 100
176 19.9 15.7 23.5
179 15.6 12.4 18.6



#26
Anthracene
Concen: 0.477 ng
RT: 17.248 min Scan# 1693
Delta R.T. 0.012 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion:178 Resp: 6001
Ion Ratio Lower Upper
178 100
176 19.2 14.9 22.3
179 15.4 12.4 18.6

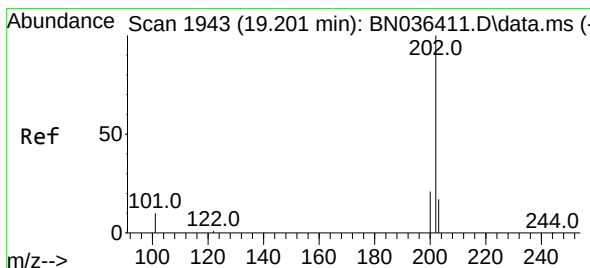
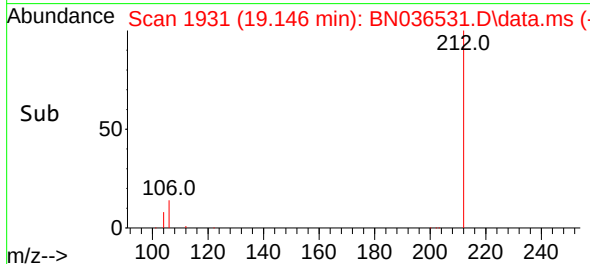
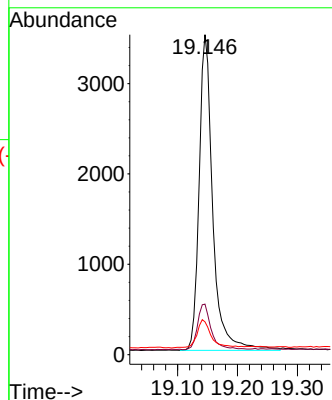
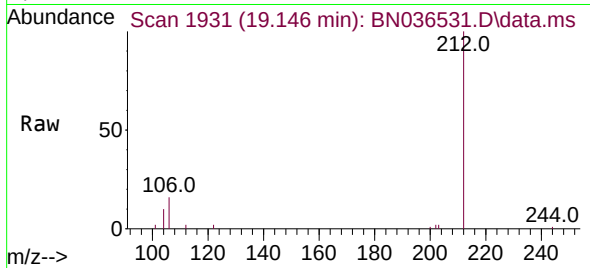




#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 19.146 min Scan# 1931
Delta R.T. 0.005 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

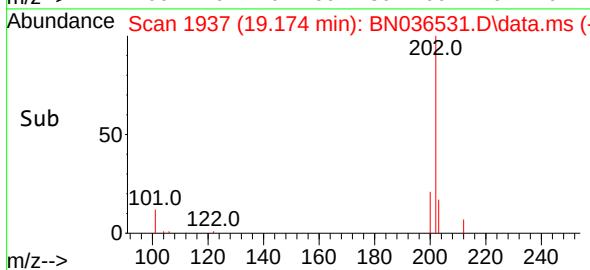
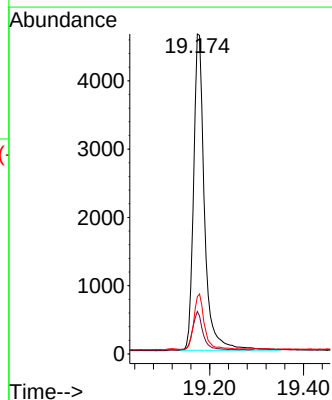
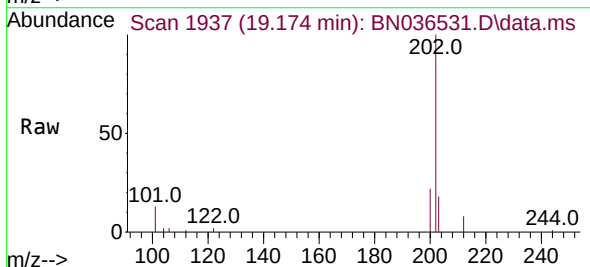
Instrument :
BNA_N
ClientSampleId :
PB166992BSD

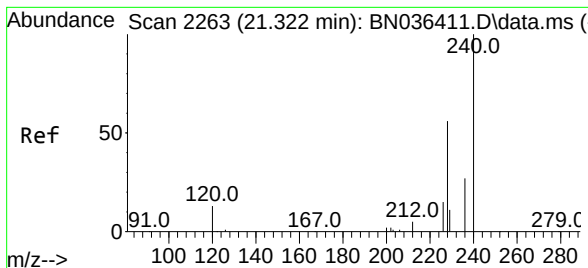
Tgt Ion:212 Resp: 5524
Ion Ratio Lower Upper
212 100
106 14.4 11.5 17.3
104 9.5 7.1 10.7



#28
Fluoranthene
Concen: 0.428 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion:202 Resp: 7495
Ion Ratio Lower Upper
202 100
101 11.6 9.2 13.8
203 17.3 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.295 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036531.D

Acq: 05 Mar 2025 19:18

Instrument :

BNA_N

ClientSampleId :

PB166992BSD

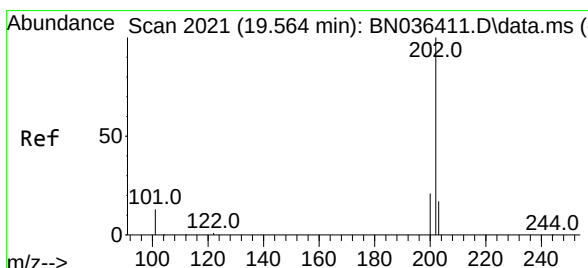
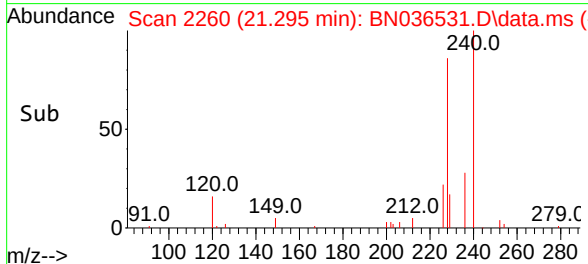
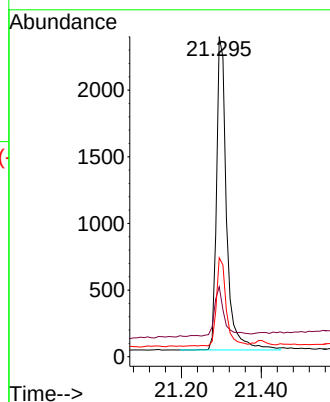
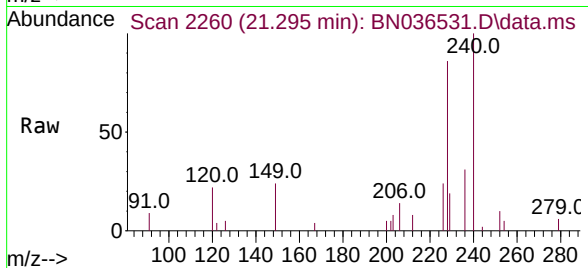
Tgt Ion:240 Resp: 4101

Ion Ratio Lower Upper

240 100

120 21.9 13.3 19.9#

236 30.9 23.0 34.6



#30

Pyrene

Concen: 0.491 ng

RT: 19.541 min Scan# 2016

Delta R.T. 0.005 min

Lab File: BN036531.D

Acq: 05 Mar 2025 19:18

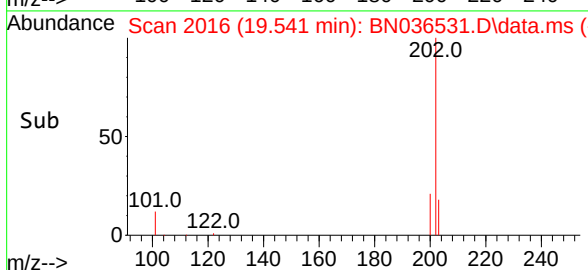
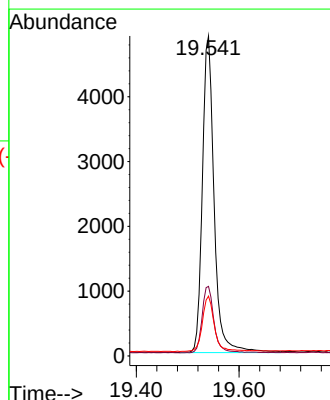
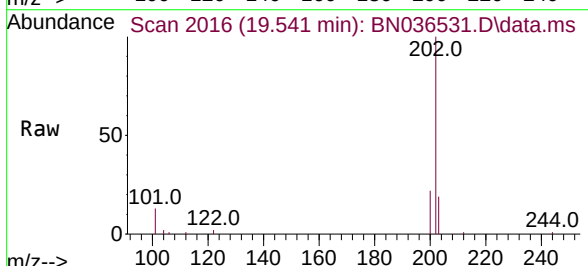
Tgt Ion:202 Resp: 7760

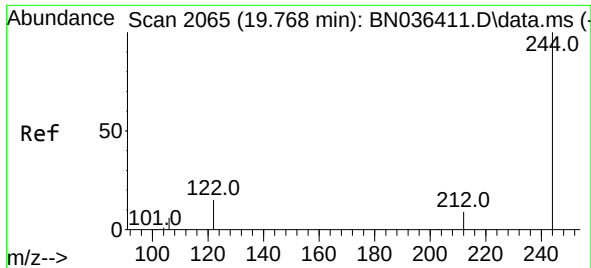
Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

203 17.9 13.9 20.9

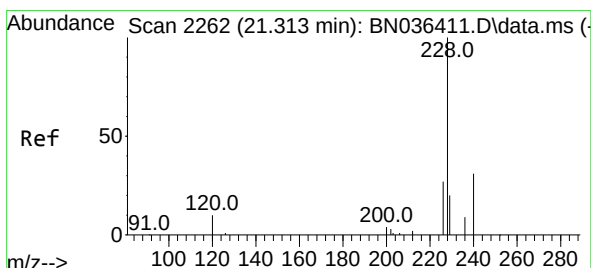
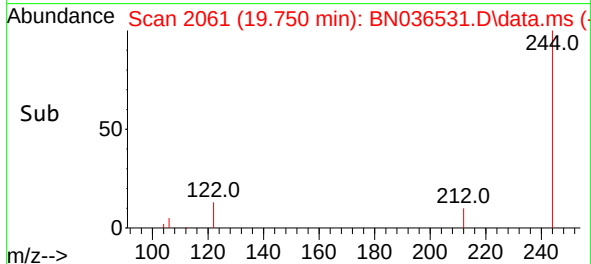
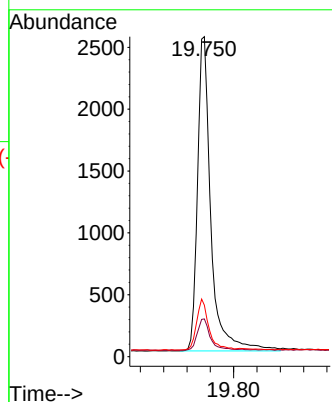
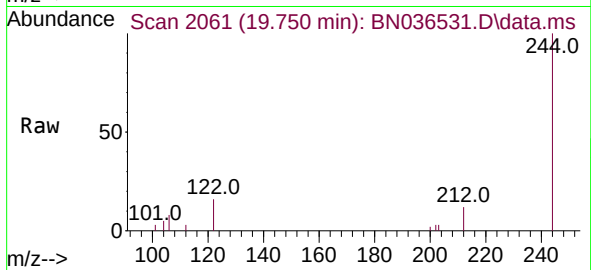




#31
 Terphenyl-d14
 Concen: 0.462 ng
 RT: 19.750 min Scan# 2065
 Delta R.T. 0.005 min
 Lab File: BN036531.D
 Acq: 05 Mar 2025 19:18

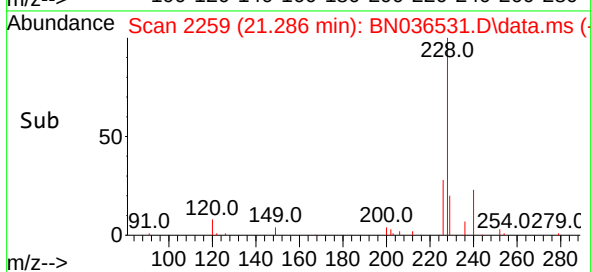
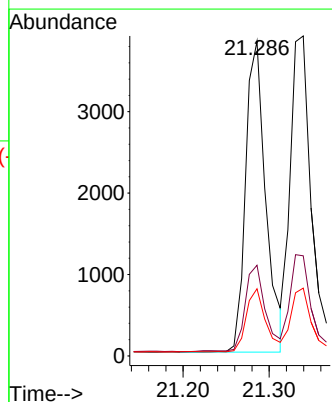
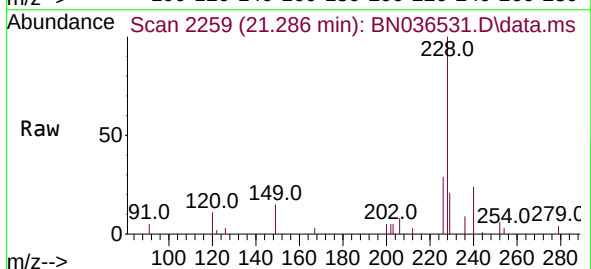
Instrument :
 BNA_N
 ClientSampleId :
 PB166992BSD

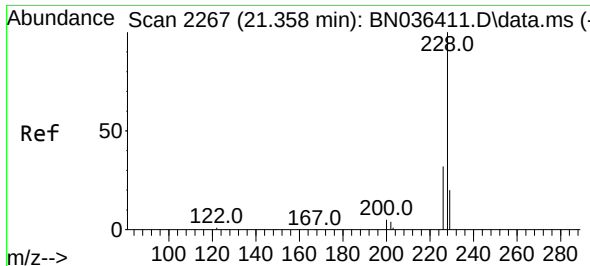
Tgt Ion:244 Resp: 4044
 Ion Ratio Lower Upper
 244 100
 212 11.8 8.1 12.1
 122 16.1 12.8 19.2



#32
 Benzo(a)anthracene
 Concen: 0.459 ng
 RT: 21.286 min Scan# 2259
 Delta R.T. 0.009 min
 Lab File: BN036531.D
 Acq: 05 Mar 2025 19:18

Tgt Ion:228 Resp: 6200
 Ion Ratio Lower Upper
 228 100
 226 28.8 22.2 33.2
 229 21.3 16.5 24.7

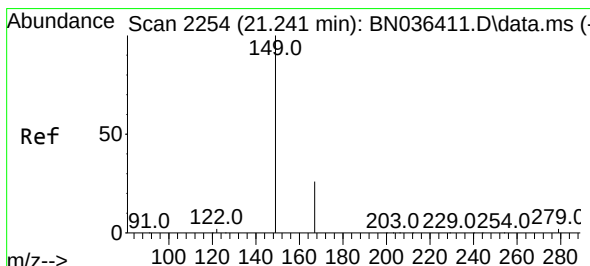
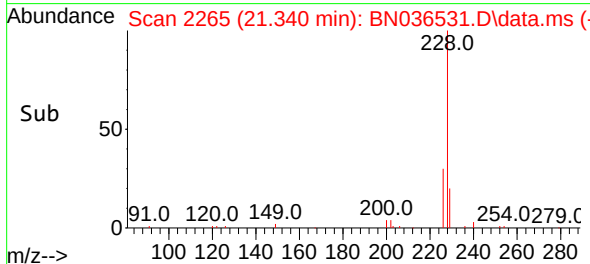
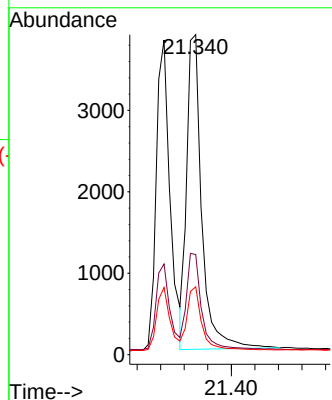
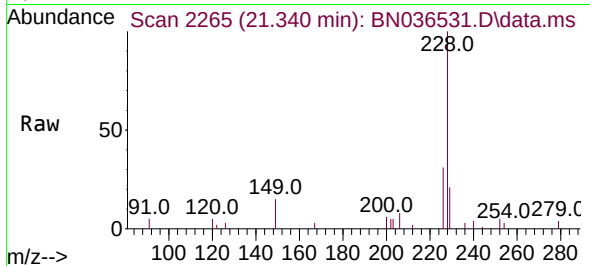




#33
Chrysene
Concen: 0.471 ng
RT: 21.340 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

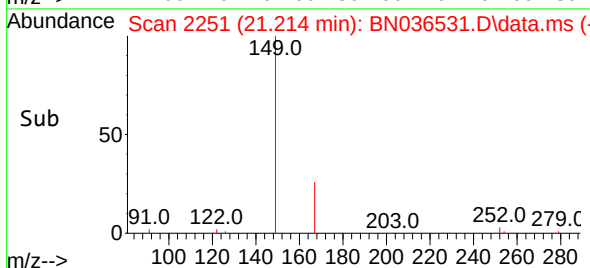
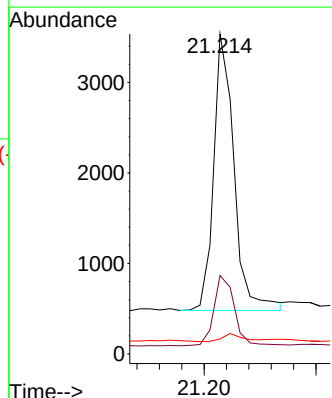
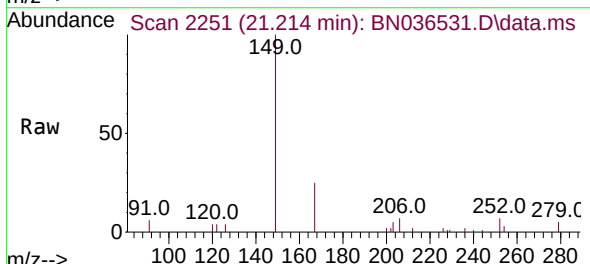
Instrument :
BNA_N
ClientSampleId :
PB166992BSD

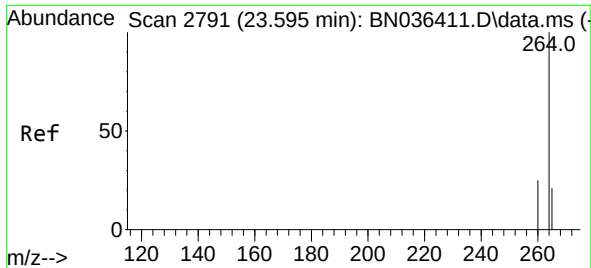
Tgt Ion:228 Resp: 6883
Ion Ratio Lower Upper
228 100
226 31.3 25.5 38.3
229 21.2 16.4 24.6



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.458 ng
RT: 21.214 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion:149 Resp: 3851
Ion Ratio Lower Upper
149 100
167 25.8 21.2 31.8
279 2.9 2.7 4.1

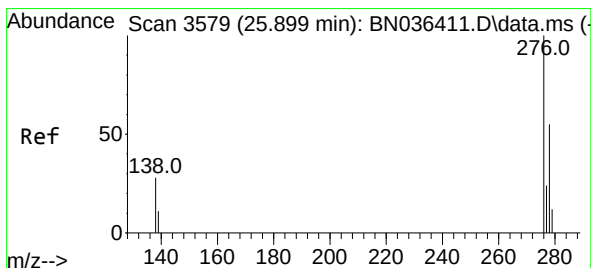
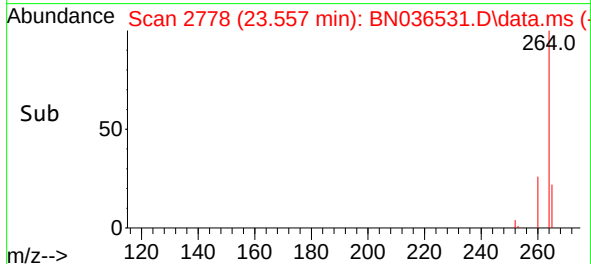
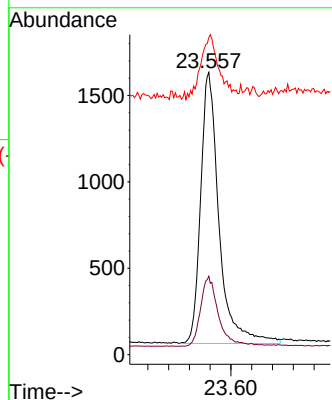
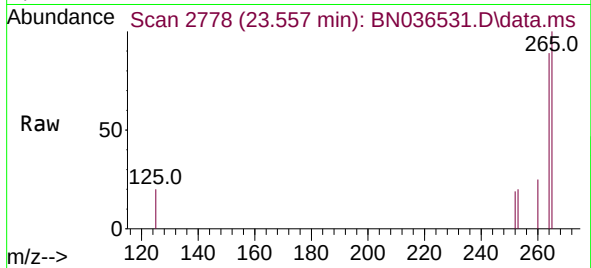




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.557 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: BN036531.D
 Acq: 05 Mar 2025 19:18

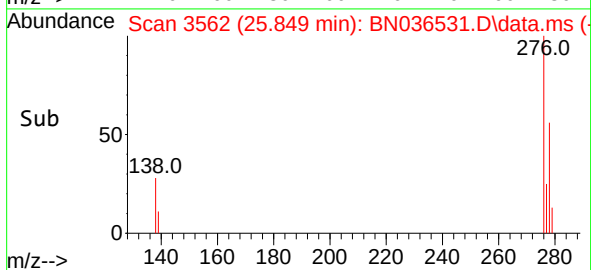
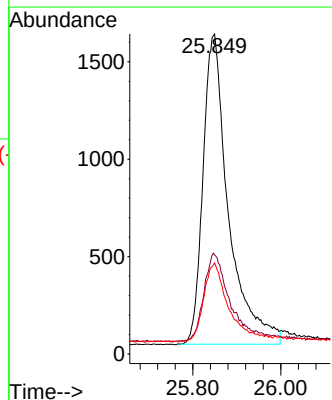
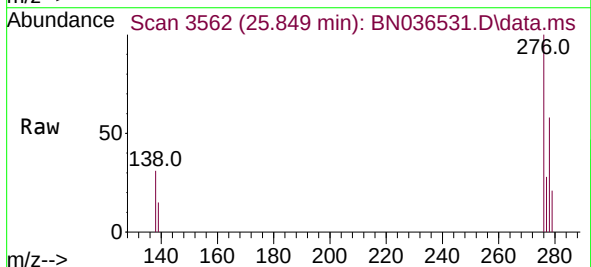
Instrument :
 BNA_N
 ClientSampleId :
 PB166992BSD

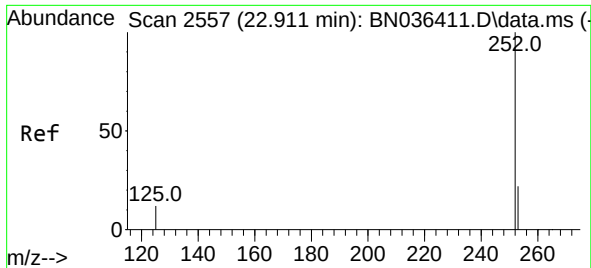
Tgt Ion:264 Resp: 3858
 Ion Ratio Lower Upper
 264 100
 260 27.7 20.9 31.3
 265 112.4 60.7 91.1#



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.477 ng
 RT: 25.849 min Scan# 3562
 Delta R.T. 0.012 min
 Lab File: BN036531.D
 Acq: 05 Mar 2025 19:18

Tgt Ion:276 Resp: 6430
 Ion Ratio Lower Upper
 276 100
 138 28.3 22.2 33.2
 277 24.9 19.8 29.6

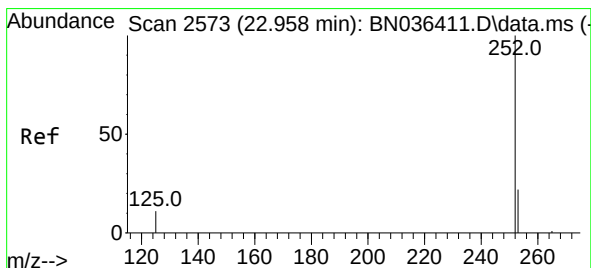
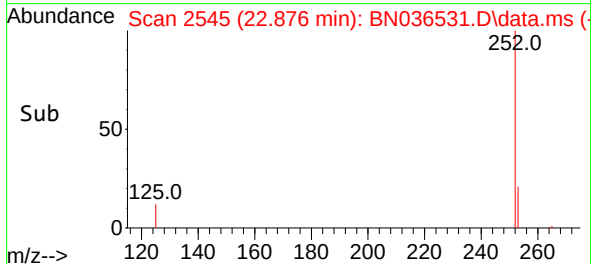
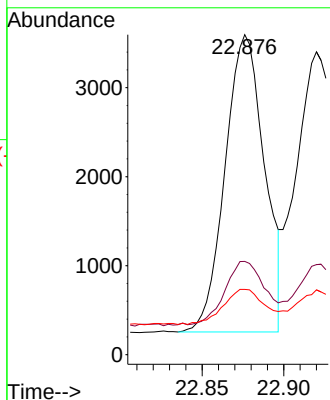
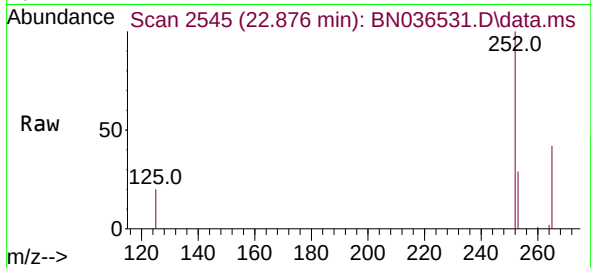




#37
Benzo(b)fluoranthene
Concen: 0.440 ng
RT: 22.876 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

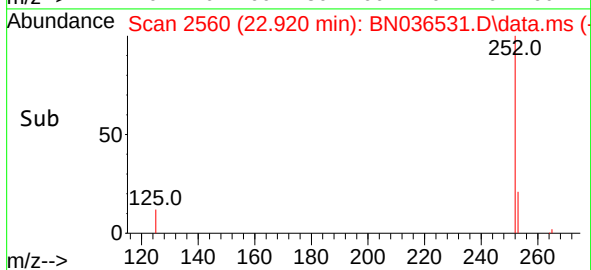
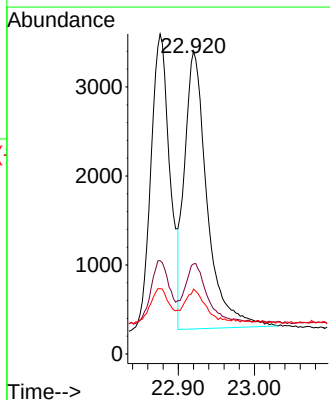
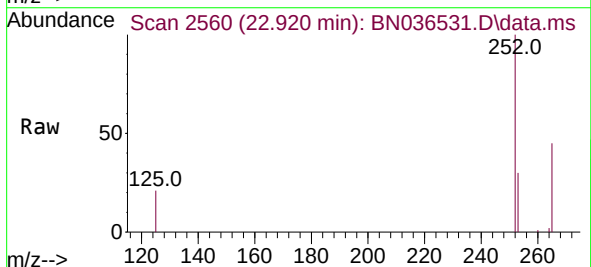
Instrument :
BNA_N
ClientSampleId :
PB166992BSD

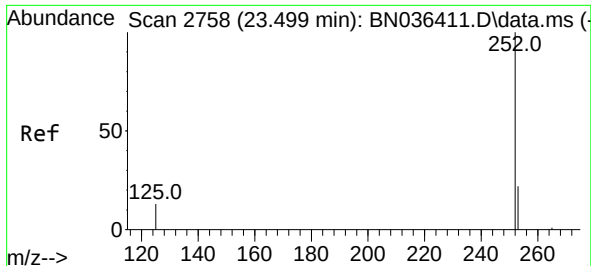
Tgt Ion:252 Resp: 5588
Ion Ratio Lower Upper
252 100
253 29.1 21.9 32.9
125 20.4 15.0 22.6



#38
Benzo(k)fluoranthene
Concen: 0.492 ng
RT: 22.920 min Scan# 2560
Delta R.T. 0.003 min
Lab File: BN036531.D
Acq: 05 Mar 2025 19:18

Tgt Ion:252 Resp: 6430
Ion Ratio Lower Upper
252 100
253 29.8 22.2 33.4
125 21.4 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.487 ng

RT: 23.461 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN036531.D

Acq: 05 Mar 2025 19:18

Instrument :

BNA_N

ClientSampleId :

PB166992BSD

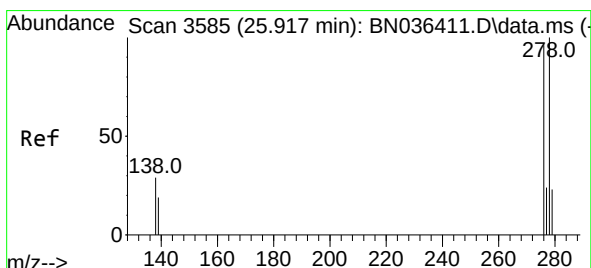
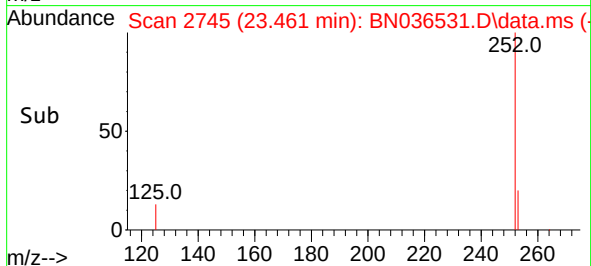
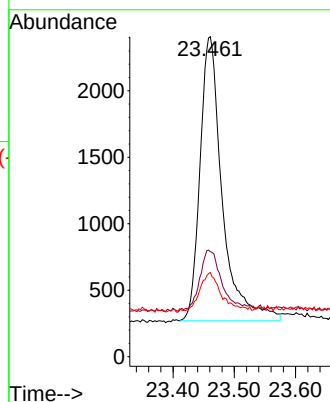
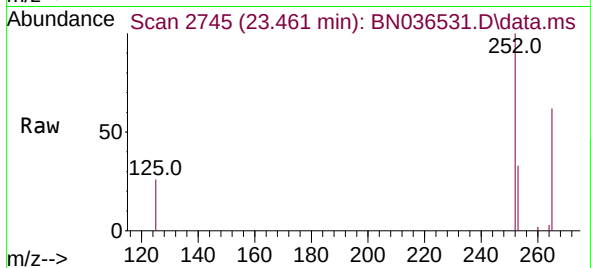
Tgt Ion:252 Resp: 5395

Ion Ratio Lower Upper

252 100

253 32.9 24.4 36.6

125 26.3 18.2 27.2



#40

Dibenzo(a,h)anthracene

Concen: 0.449 ng

RT: 25.864 min Scan# 3567

Delta R.T. 0.012 min

Lab File: BN036531.D

Acq: 05 Mar 2025 19:18

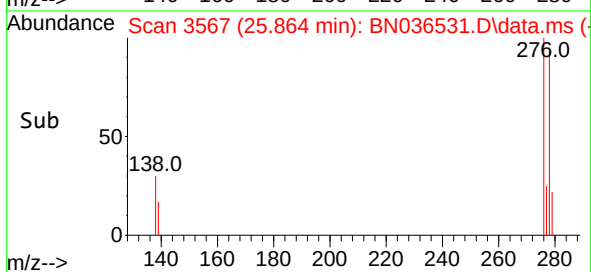
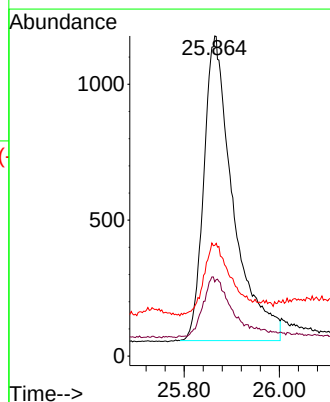
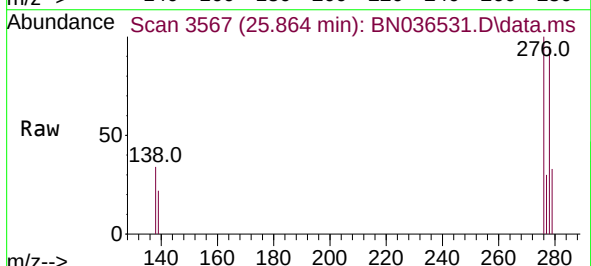
Tgt Ion:278 Resp: 4774

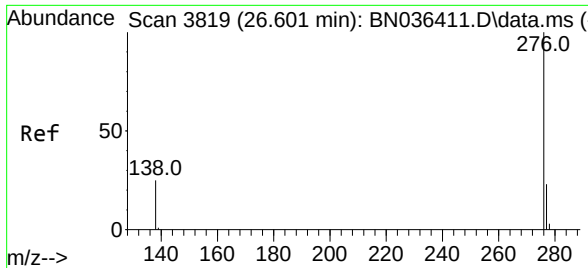
Ion Ratio Lower Upper

278 100

139 23.2 18.5 27.7

279 34.6 24.8 37.2

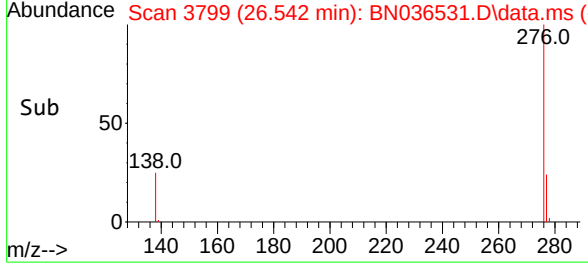
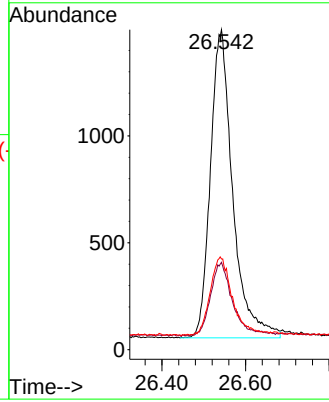
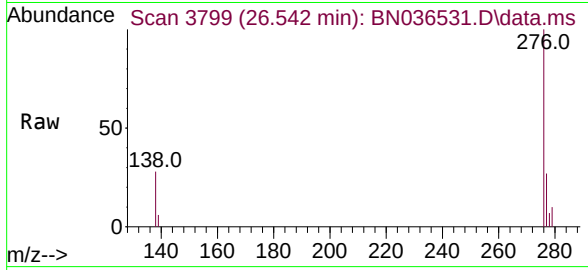




#41
 Benzo(g,h,i)perylene
 Concen: 0.443 ng
 RT: 26.542 min Scan# 31
 Delta R.T. 0.015 min
 Lab File: BN036531.D
 Acq: 05 Mar 2025 19:18

Instrument :
 BNA_N
 ClientSampleId :
 PB166992BSD

Tgt Ion:	276	Resp:	5348
Ion	Ratio	Lower	Upper
276	100		
277	27.3	20.7	31.1
138	28.3	21.8	32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN030525\
 Data File : BN036532.D
 Acq On : 05 Mar 2025 19:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Mar 06 00:03:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 05 16:08:57 2025
 Response via : Initial Calibration

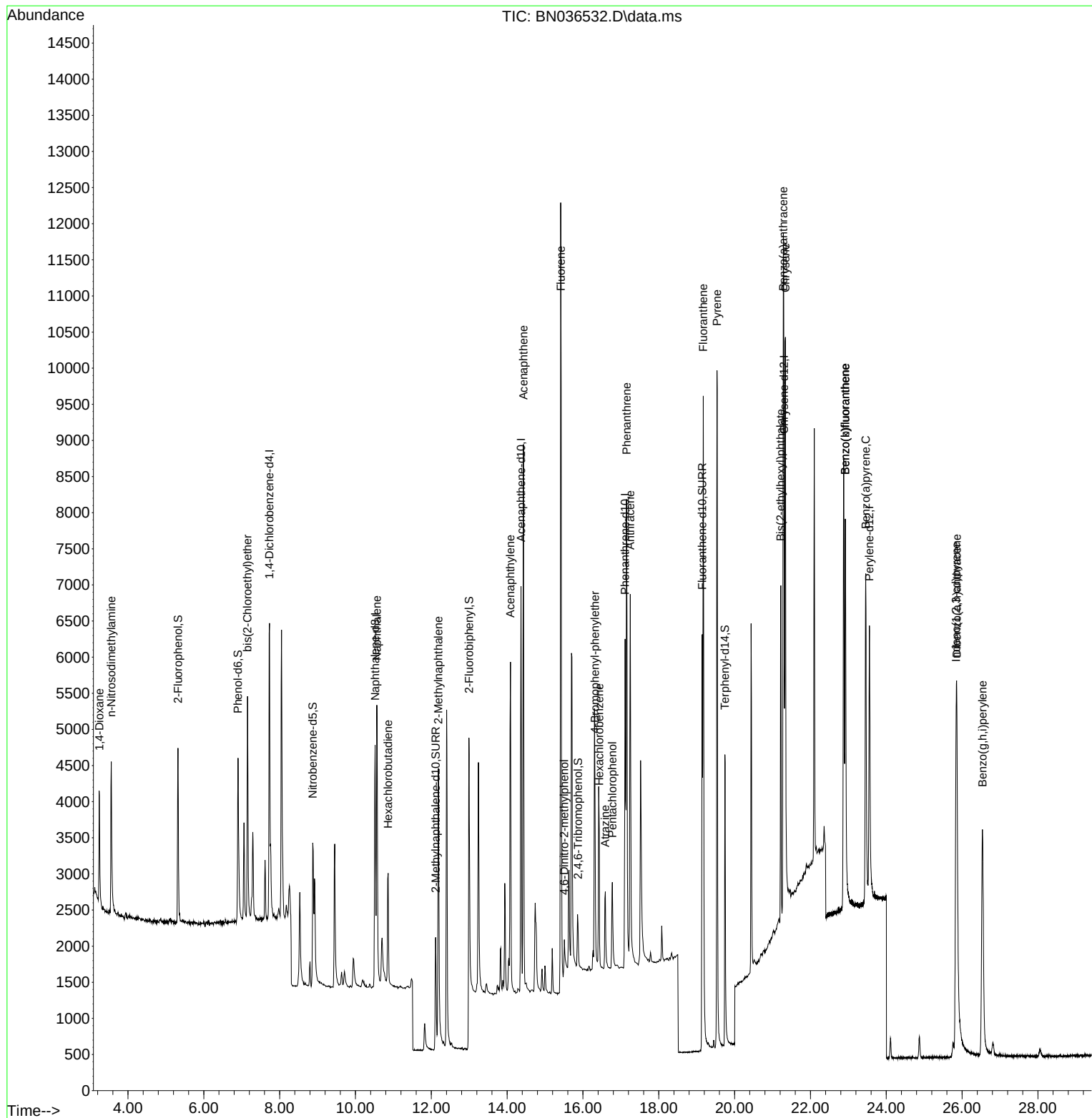
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.732	152	2061	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	4969	0.400	ng	# 0.01
13) Acenaphthene-d10	14.366	164	3255	0.400	ng	0.00
19) Phenanthrene-d10	17.111	188	6522	0.400	ng	0.00
29) Chrysene-d12	21.304	240	5520	0.400	ng	# 0.00
35) Perylene-d12	23.554	264	5583	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.319	112	1844	0.379	ng	0.00
5) Phenol-d6	6.901	99	2180	0.381	ng	0.00
8) Nitrobenzene-d5	8.875	82	1996	0.407	ng	0.00
11) 2-Methylnaphthalene-d10	12.116	152	2849	0.373	ng	0.01
14) 2,4,6-Tribromophenol	15.870	330	505	0.313	ng	0.01
15) 2-Fluorobiphenyl	12.993	172	6095	0.498	ng	0.00
27) Fluoranthene-d10	19.146	212	7039	0.388	ng	0.00
31) Terphenyl-d14	19.745	244	4751	0.403	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.247	88	941	0.417	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.557	42	1790	0.457	ng	92
6) bis(2-Chloroethyl)ether	7.154	93	2364	0.396	ng	99
9) Naphthalene	10.562	128	5646	0.394	ng	99
10) Hexachlorobutadiene	10.861	225	1391	0.399	ng	# 99
12) 2-Methylnaphthalene	12.187	142	3553	0.378	ng	97
16) Acenaphthylene	14.088	152	5459	0.380	ng	99
17) Acenaphthene	14.430	154	3608	0.376	ng	98
18) Fluorene	15.414	166	4982	0.364	ng	100
20) 4,6-Dinitro-2-methylph...	15.510	198	380	0.297	ng	# 83
21) 4-Bromophenyl-phenylether	16.317	248	1518	0.390	ng	# 78
22) Hexachlorobenzene	16.429	284	1859	0.387	ng	96
23) Atrazine	16.590	200	1262	0.388	ng	97
24) Pentachlorophenol	16.776	266	801	0.351	ng	98
25) Phenanthrene	17.149	178	7491	0.397	ng	100
26) Anthracene	17.248	178	6696	0.403	ng	99
28) Fluoranthene	19.174	202	9074	0.392	ng	100
30) Pyrene	19.536	202	9367	0.441	ng	100
32) Benzo(a)anthracene	21.286	228	7308	0.402	ng	100
33) Chrysene	21.340	228	8235	0.419	ng	99
34) Bis(2-ethylhexyl)phtha...	21.214	149	4739	0.419	ng	99
36) Indeno(1,2,3-cd)pyrene	25.844	276	8122	0.416	ng	99
37) Benzo(b)fluoranthene	22.920	252	8080	0.439	ng	99
38) Benzo(k)fluoranthene	22.920	252	8080	0.427	ng	100
39) Benzo(a)pyrene	23.458	252	6903	0.430	ng	# 85
40) Dibenzo(a,h)anthracene	25.861	278	6252	0.406	ng	99
41) Benzo(g,h,i)perylene	26.540	276	7233	0.414	ng	97

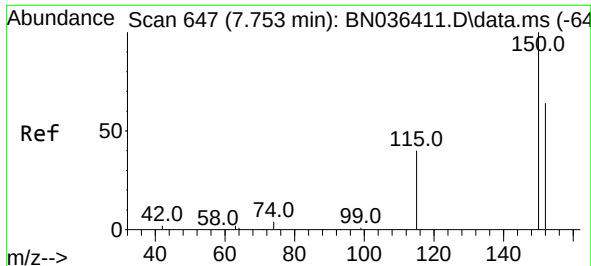
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036532.D
Acq On : 05 Mar 2025 19:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Mar 06 00:03:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 16:08:57 2025
Response via : Initial Calibration

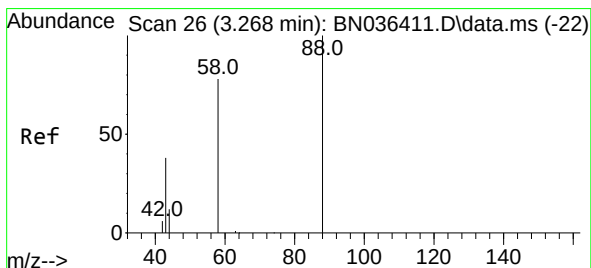
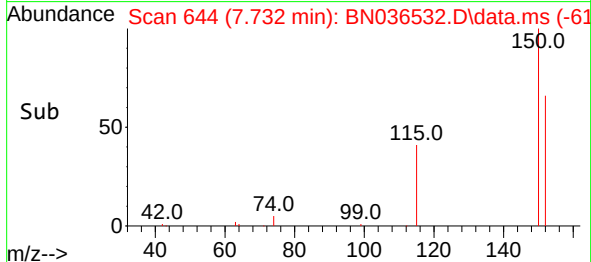
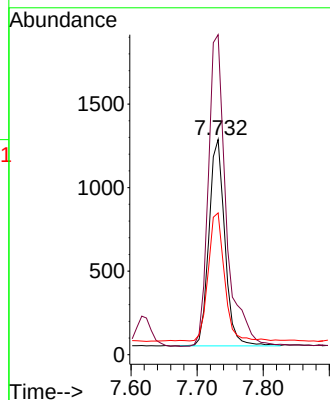
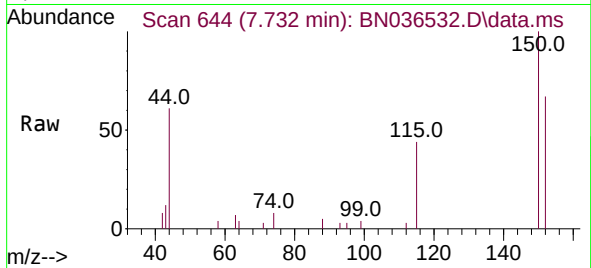




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.732 min Scan# 64
 Delta R.T. -0.000 min
 Lab File: BN036532.D
 Acq: 05 Mar 2025 19:55

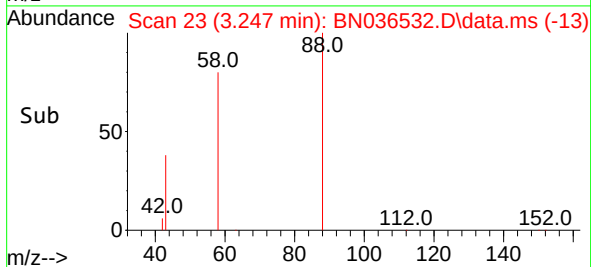
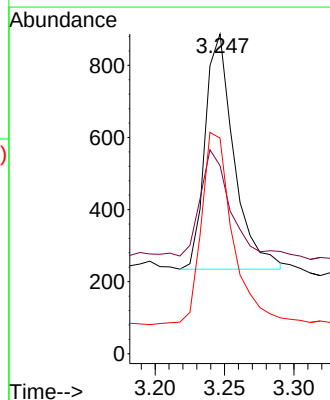
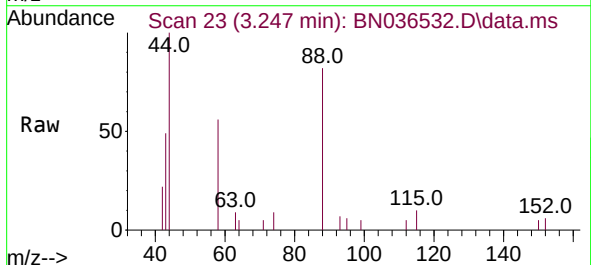
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

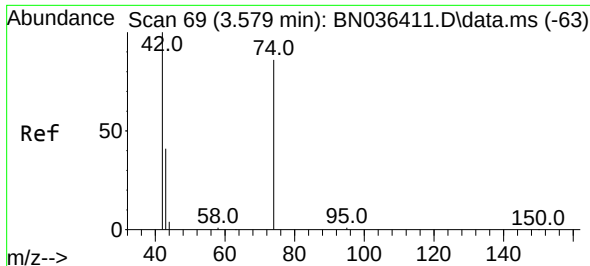
Tgt Ion:152 Resp: 2061
 Ion Ratio Lower Upper
 152 100
 150 148.7 123.7 185.5
 115 65.9 52.5 78.7



#2
 1,4-Dioxane
 Concen: 0.417 ng
 RT: 3.247 min Scan# 23
 Delta R.T. 0.000 min
 Lab File: BN036532.D
 Acq: 05 Mar 2025 19:55

Tgt Ion: 88 Resp: 941
 Ion Ratio Lower Upper
 88 100
 43 43.8 33.7 50.5
 58 89.5 68.9 103.3

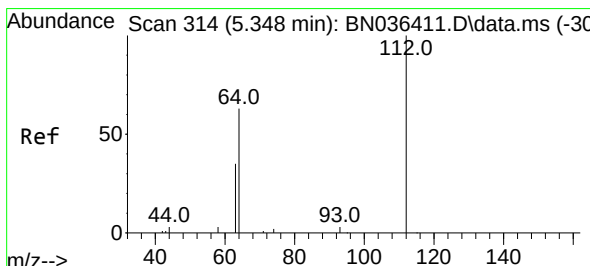
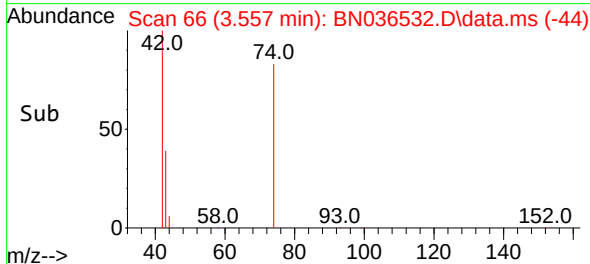
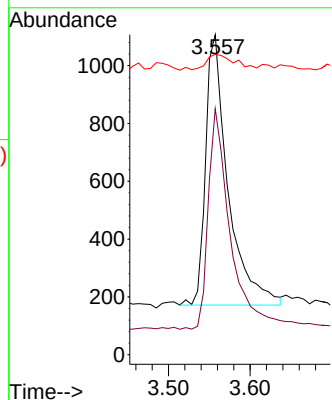
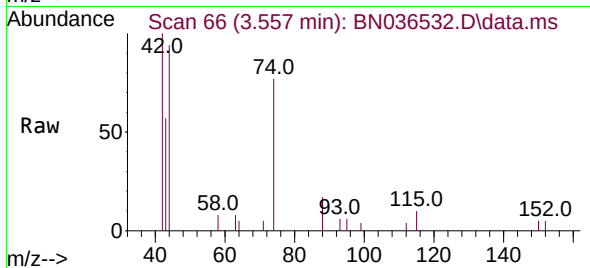




#3
n-Nitrosodimethylamine
Concen: 0.457 ng
RT: 3.557 min Scan# 60
Delta R.T. 0.007 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

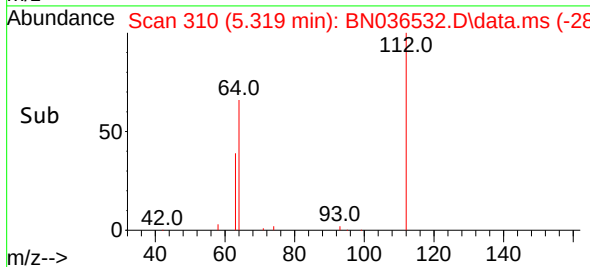
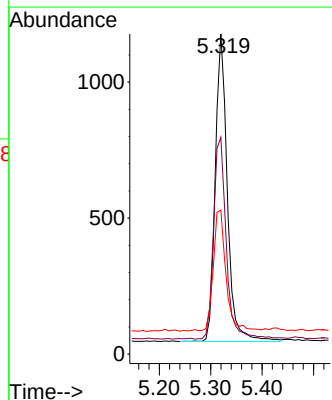
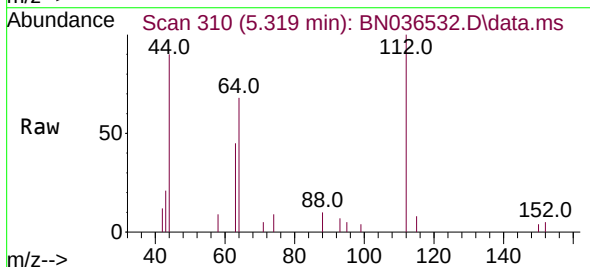
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

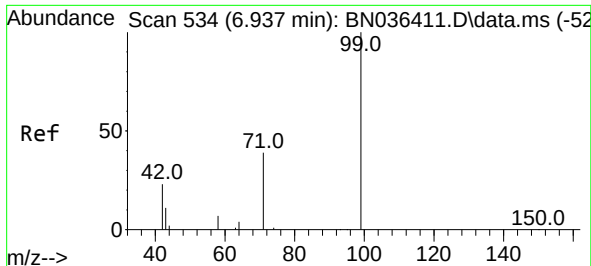
Tgt Ion: 42 Resp: 1790
Ion Ratio Lower Upper
42 100
74 81.8 71.8 107.6
44 7.8 7.8 11.6



#4
2-Fluorophenol
Concen: 0.379 ng
RT: 5.319 min Scan# 310
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion: 112 Resp: 1844
Ion Ratio Lower Upper
112 100
64 69.5 53.4 80.0
63 41.1 30.3 45.5

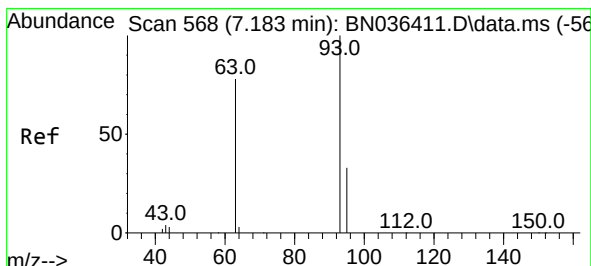
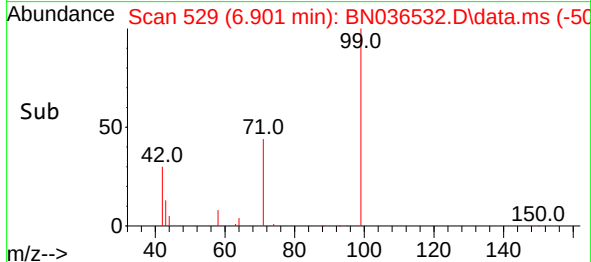
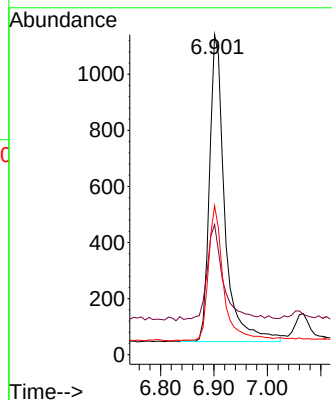
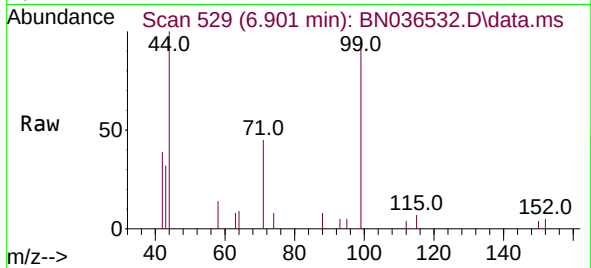




#5
Phenol-d6
Concen: 0.381 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

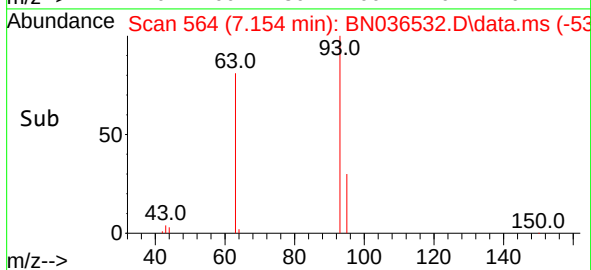
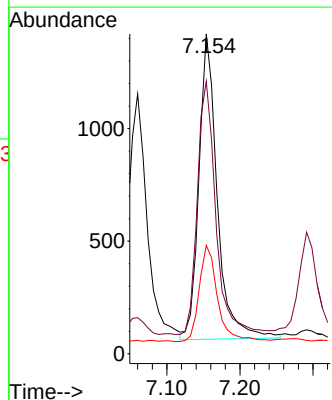
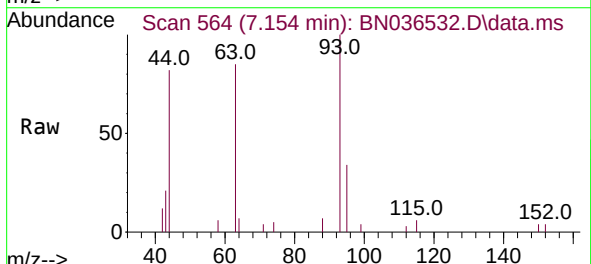
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

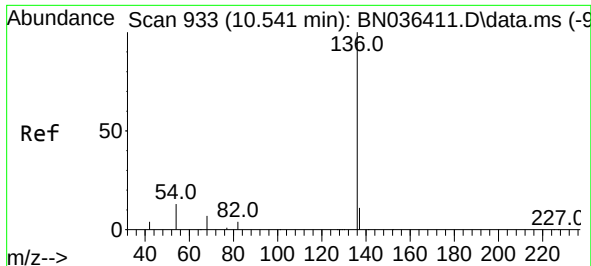
Tgt Ion:	99	Resp:	2180
Ion	Ratio	Lower	Upper
99	100		
42	30.4	21.7	32.5
71	43.5	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.396 ng
RT: 7.154 min Scan# 564
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion:	93	Resp:	2364
Ion	Ratio	Lower	Upper
93	100		
63	83.3	66.3	99.5
95	31.8	26.2	39.4

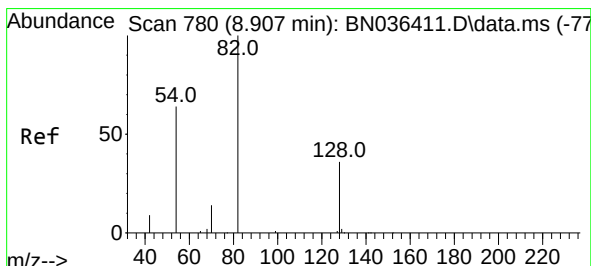
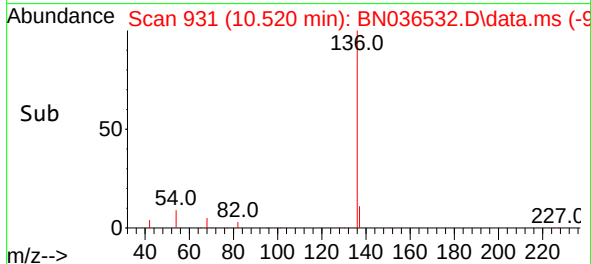
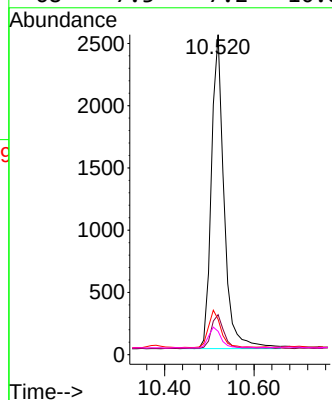
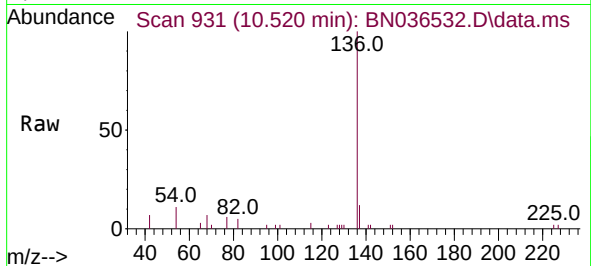




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

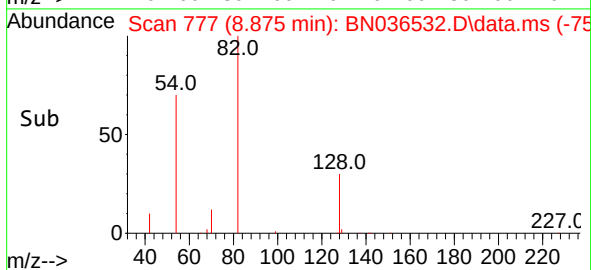
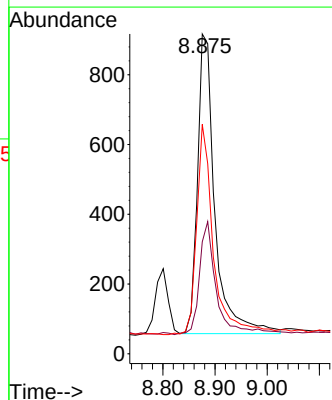
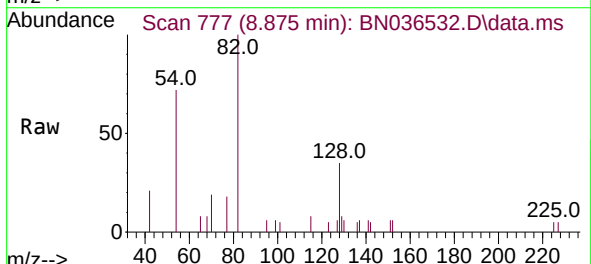
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

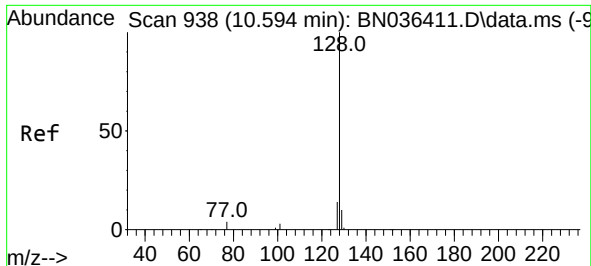
Tgt Ion:	136	Resp:	4969
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.1	15.1
54	11.1	11.8	17.6#
68	7.3	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.407 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion:	82	Resp:	1996
Ion	Ratio	Lower	Upper
82	100		
128	35.0	31.9	47.9
54	71.8	53.1	79.7

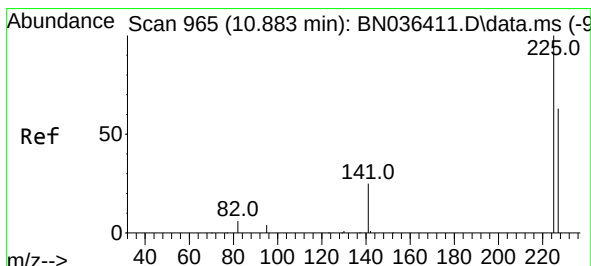
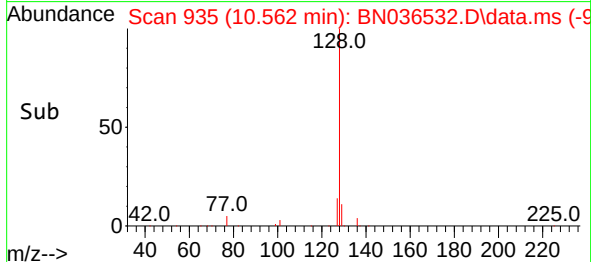
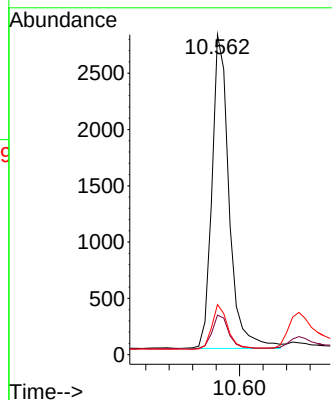
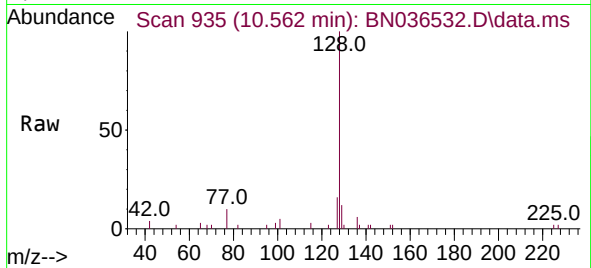




#9
Naphthalene
Concen: 0.394 ng
RT: 10.562 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

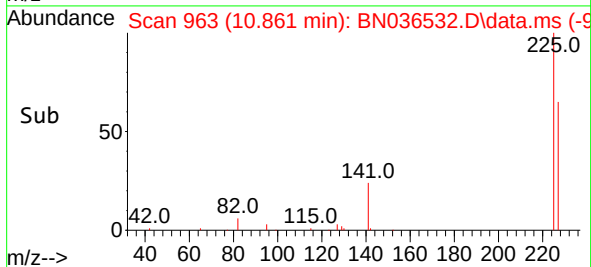
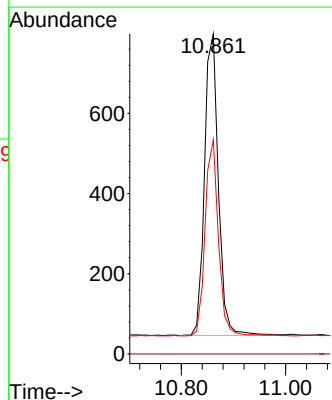
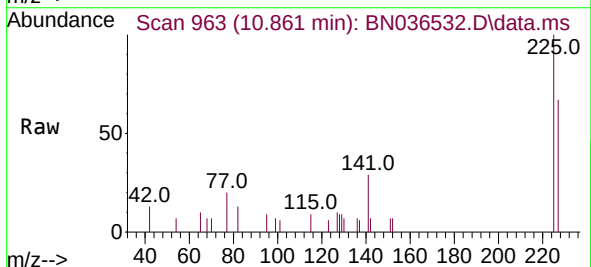
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

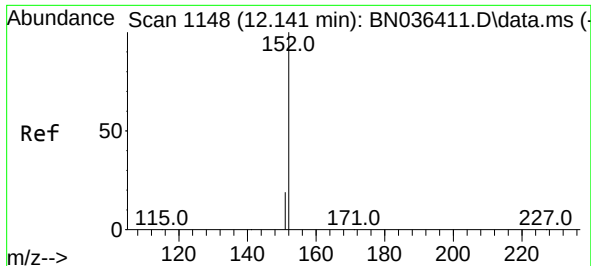
Tgt Ion:128 Resp: 5646
Ion Ratio Lower Upper
128 100
129 12.4 9.6 14.4
127 15.7 12.0 18.0



#10
Hexachlorobutadiene
Concen: 0.399 ng
RT: 10.861 min Scan# 963
Delta R.T. 0.011 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion:225 Resp: 1391
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.6 50.9 76.3

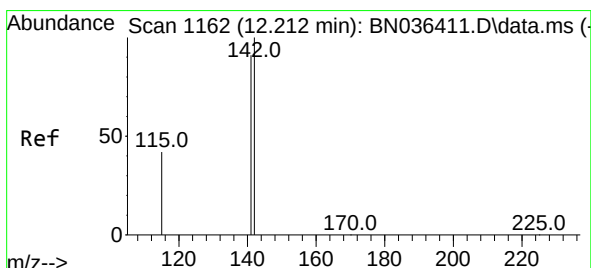
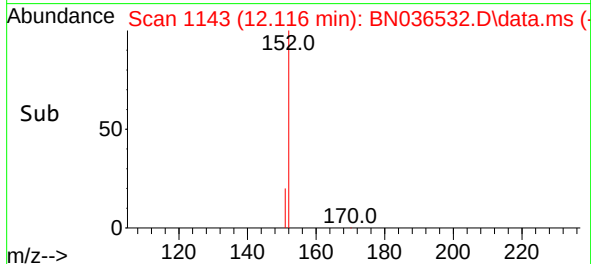
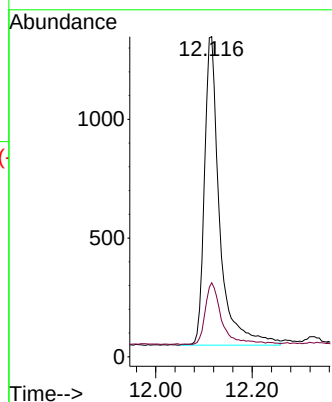
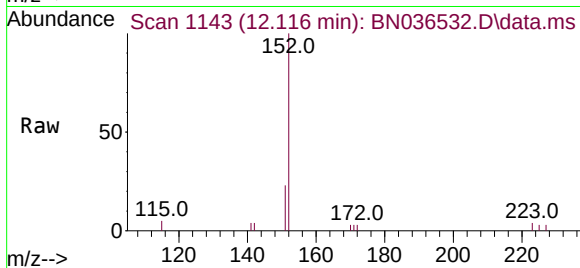




#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 12.116 min Scan# 1143
Delta R.T. 0.010 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

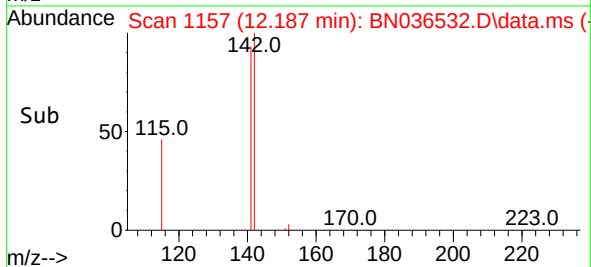
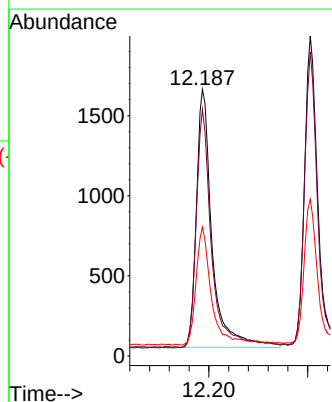
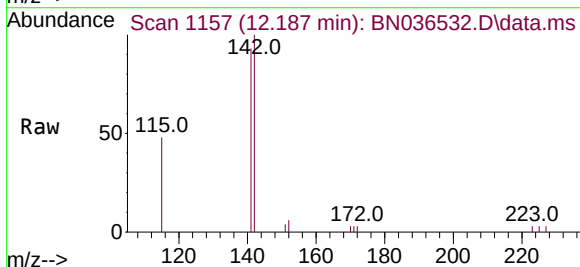
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

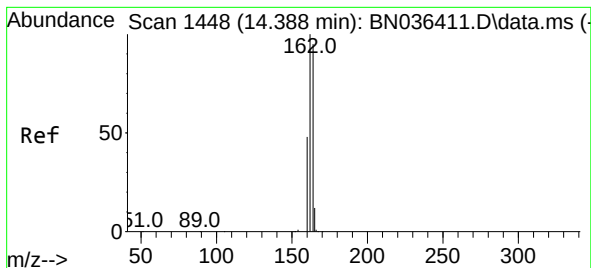
Tgt Ion:152 Resp: 2849
Ion Ratio Lower Upper
152 100
151 21.4 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.378 ng
RT: 12.187 min Scan# 1157
Delta R.T. 0.005 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion:142 Resp: 3553
Ion Ratio Lower Upper
142 100
141 92.5 72.8 109.2
115 48.4 35.5 53.3





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.366 min Scan# 1446

Delta R.T. 0.000 min

Lab File: BN036532.D

Acq: 05 Mar 2025 19:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

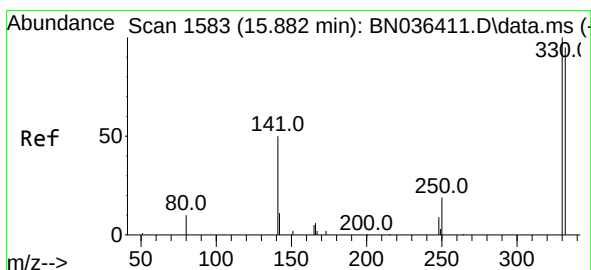
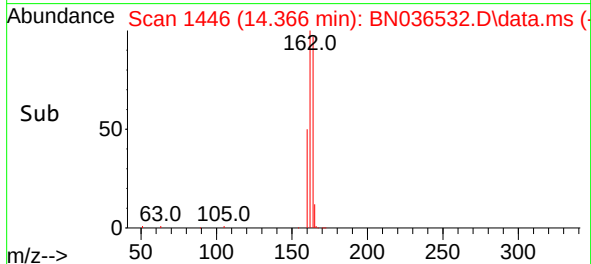
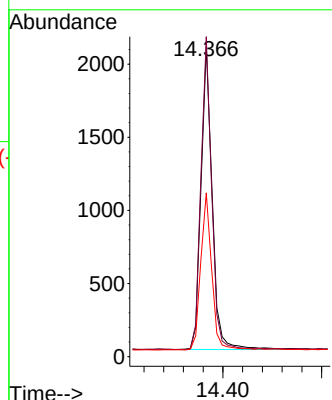
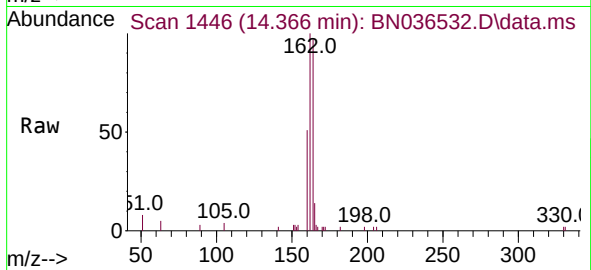
Tgt Ion:164 Resp: 3255

Ion Ratio Lower Upper

164 100

162 103.3 84.1 126.1

160 52.9 41.4 62.0



#14

2,4,6-Tribromophenol

Concen: 0.313 ng

RT: 15.870 min Scan# 1582

Delta R.T. 0.013 min

Lab File: BN036532.D

Acq: 05 Mar 2025 19:55

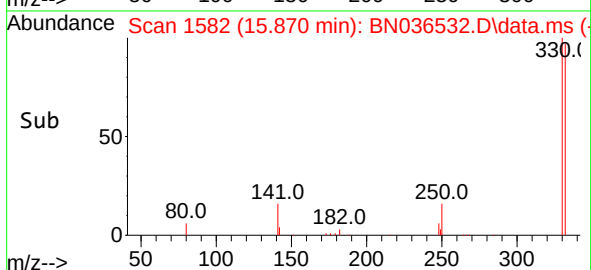
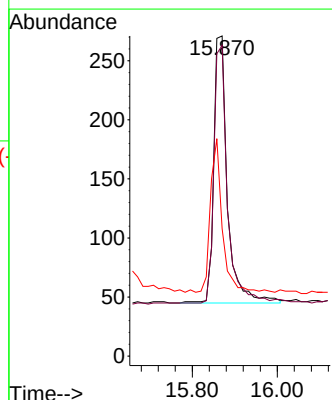
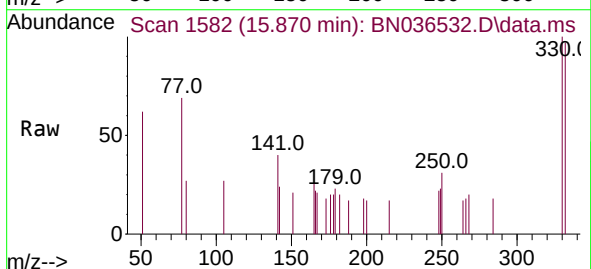
Tgt Ion:330 Resp: 505

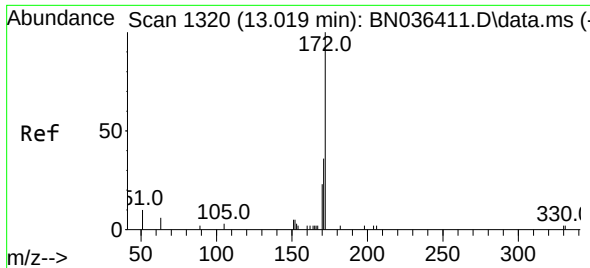
Ion Ratio Lower Upper

330 100

332 95.2 76.6 114.8

141 49.9 37.8 56.8

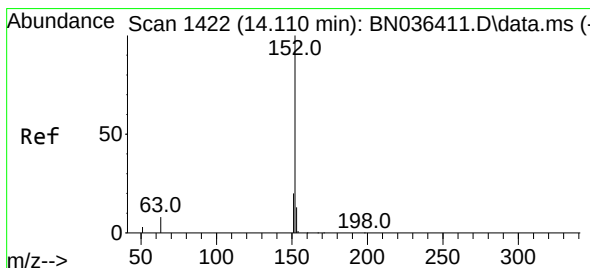
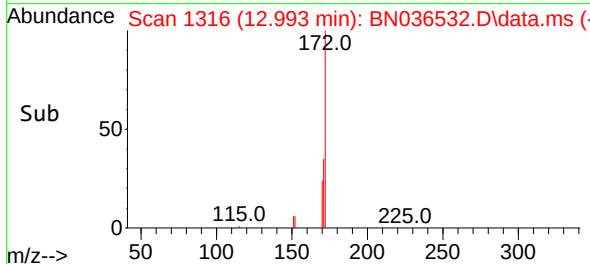
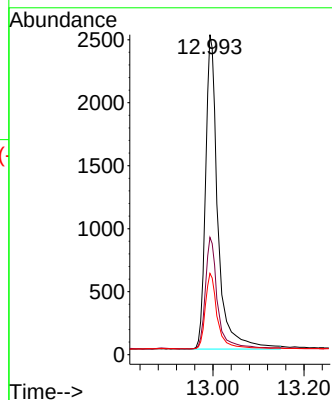
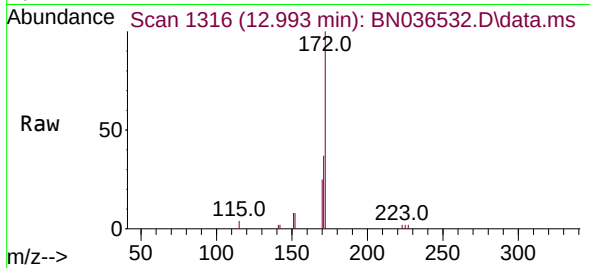




#15
2-Fluorobiphenyl
Concen: 0.498 ng
RT: 12.993 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

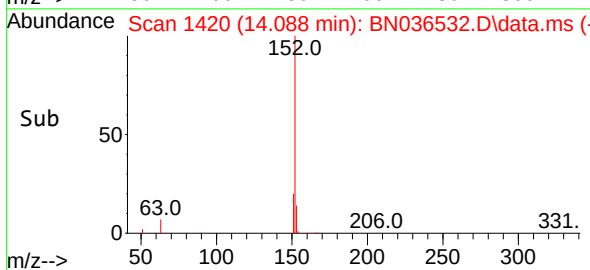
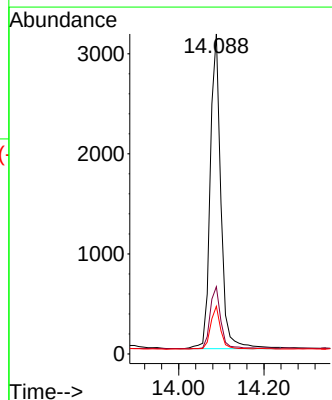
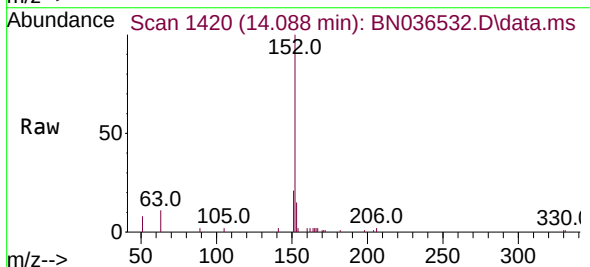
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

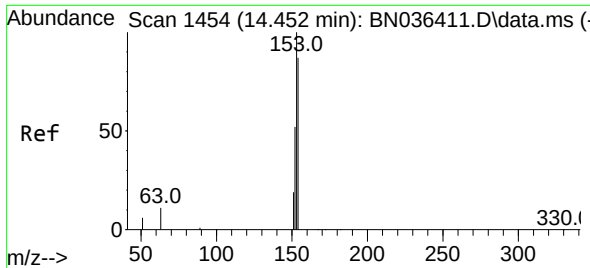
Tgt Ion:172 Resp: 6095
Ion Ratio Lower Upper
172 100
171 36.7 29.6 44.4
170 25.4 19.8 29.6



#16
Acenaphthylene
Concen: 0.380 ng
RT: 14.088 min Scan# 1420
Delta R.T. 0.011 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion:152 Resp: 5459
Ion Ratio Lower Upper
152 100
151 19.6 15.8 23.8
153 13.2 10.2 15.2

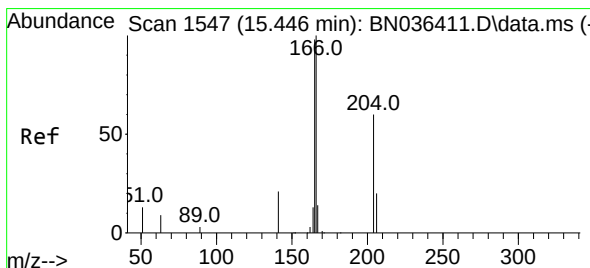
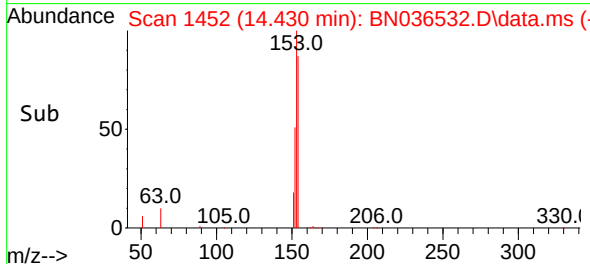
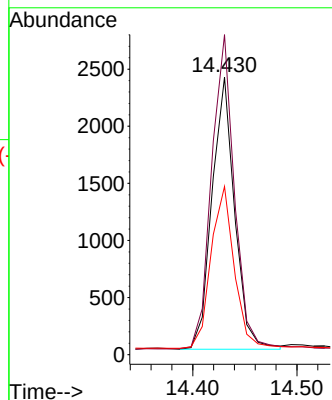
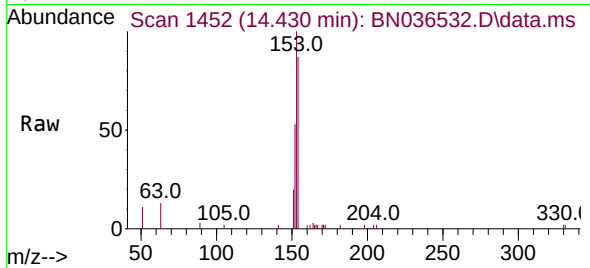




#17
Acenaphthene
Concen: 0.376 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

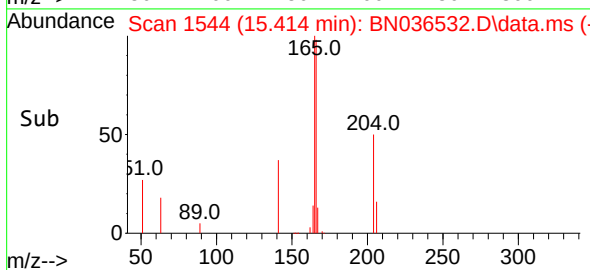
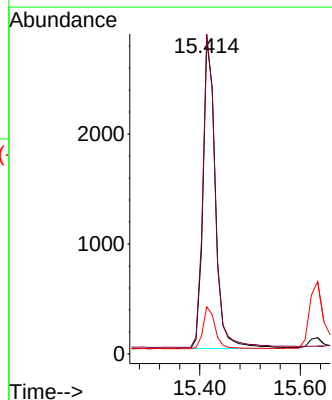
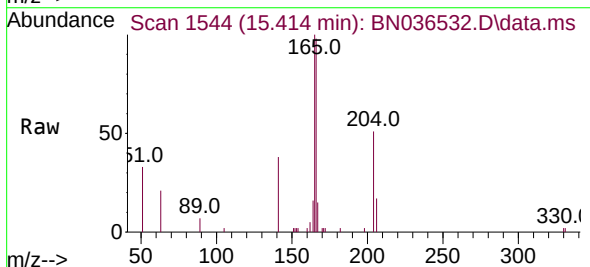
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

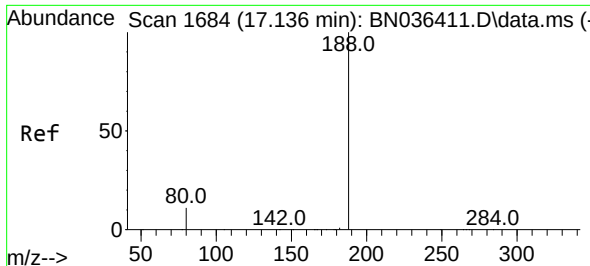
Tgt Ion:154 Resp: 3608
Ion Ratio Lower Upper
154 100
153 118.7 93.3 139.9
152 61.9 48.8 73.2



#18
Fluorene
Concen: 0.364 ng
RT: 15.414 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion:166 Resp: 4982
Ion Ratio Lower Upper
166 100
165 99.7 79.5 119.3
167 13.2 10.4 15.6

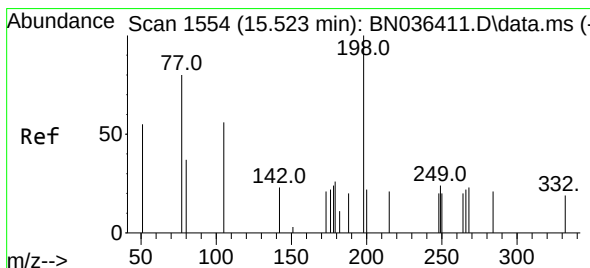
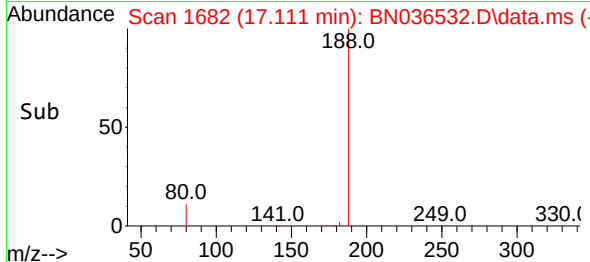
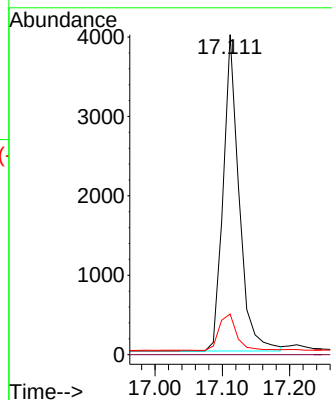
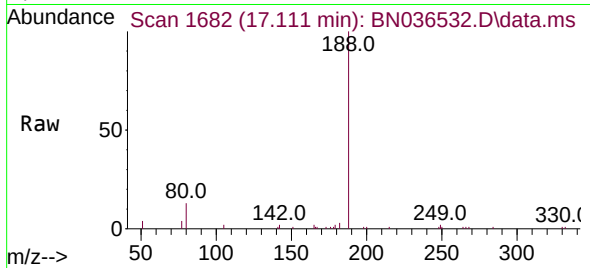




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

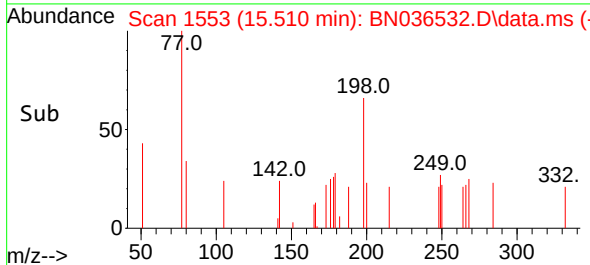
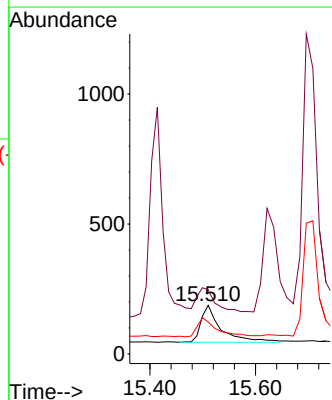
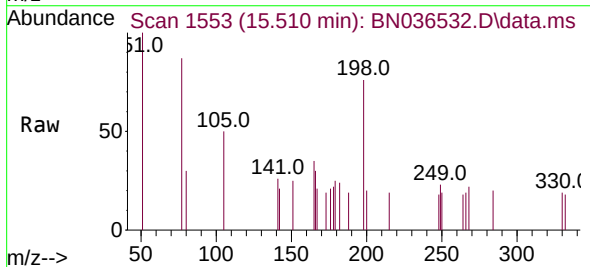
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

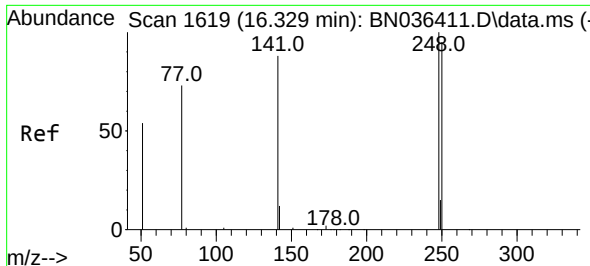
Tgt Ion:188 Resp: 6522
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.7 9.8 14.6



#20
4,6-Dinitro-2-methylphenol
Concen: 0.297 ng
RT: 15.510 min Scan# 1553
Delta R.T. 0.011 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion:198 Resp: 380
Ion Ratio Lower Upper
198 100
51 132.1 86.6 129.8#
105 65.8 57.5 86.3

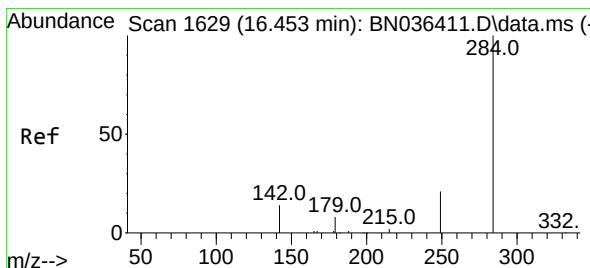
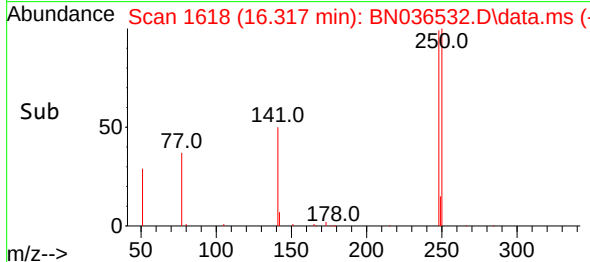
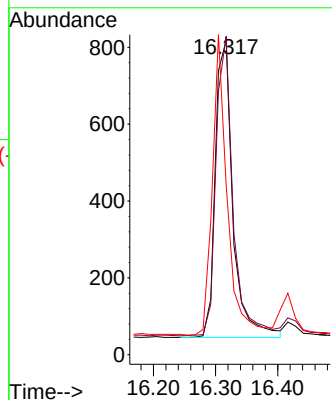
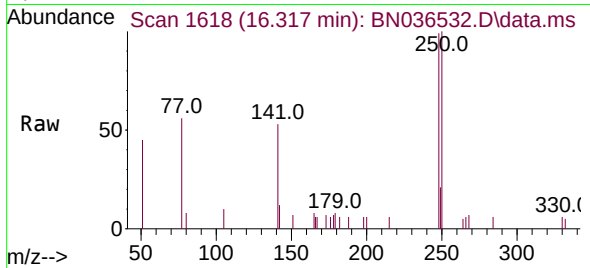




#21
4-Bromophenyl-phenylether
Concen: 0.390 ng
RT: 16.317 min Scan# 1618
Delta R.T. 0.012 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

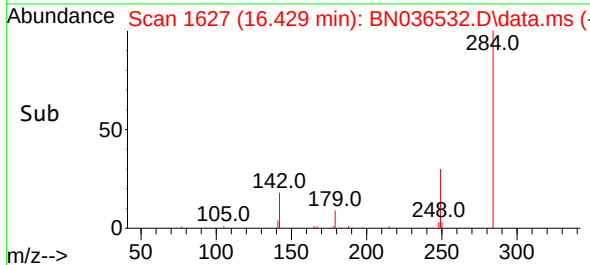
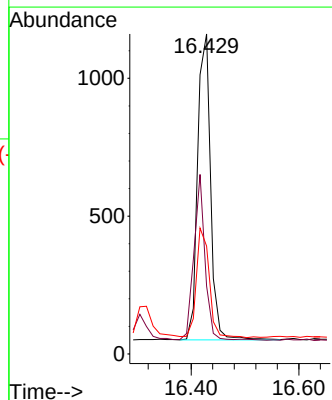
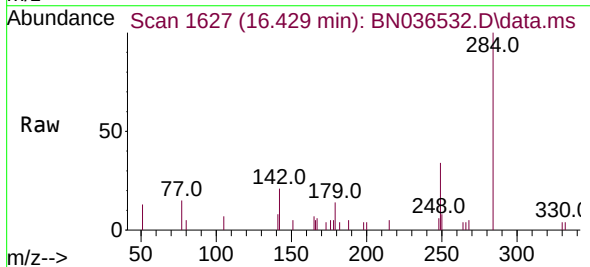
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

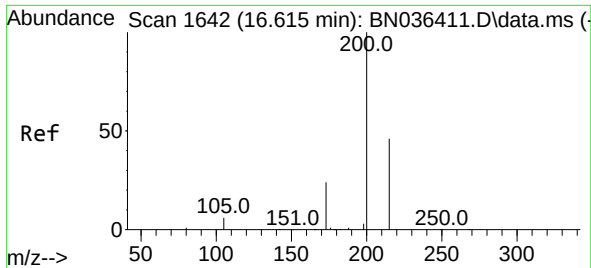
Tgt Ion:248 Resp: 1518
Ion Ratio Lower Upper
248 100
250 101.3 76.1 114.1
141 54.2 71.7 107.5#



#22
Hexachlorobenzene
Concen: 0.387 ng
RT: 16.429 min Scan# 1627
Delta R.T. 0.013 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion:284 Resp: 1859
Ion Ratio Lower Upper
284 100
142 45.7 33.4 50.0
249 36.0 28.6 43.0

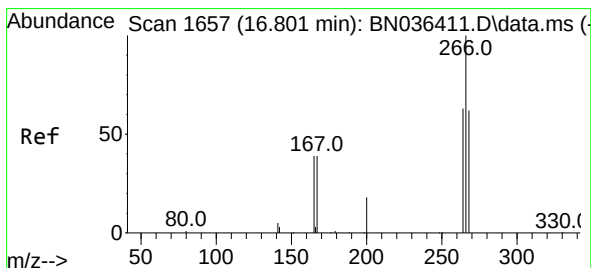
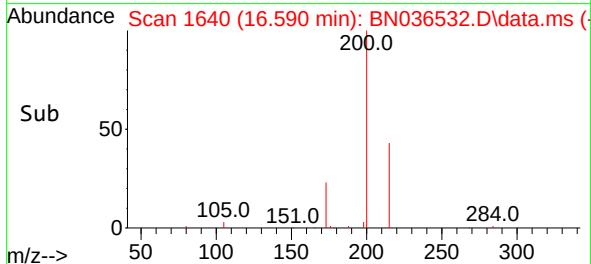
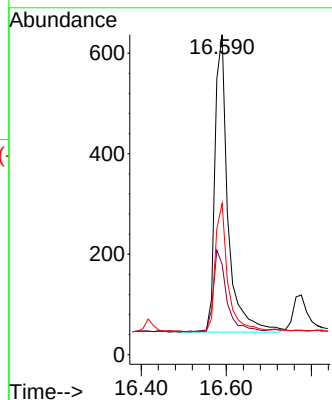
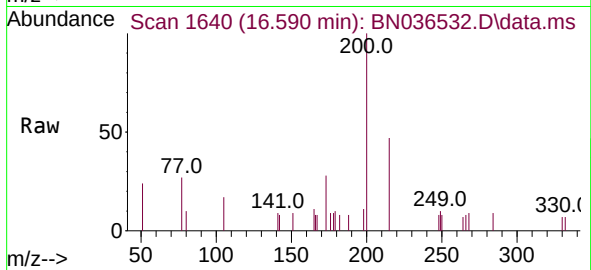




#23
 Atrazine
 Concen: 0.388 ng
 RT: 16.590 min Scan# 1640
 Delta R.T. 0.013 min
 Lab File: BN036532.D
 Acq: 05 Mar 2025 19:55

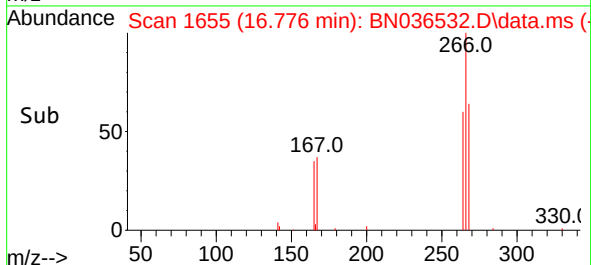
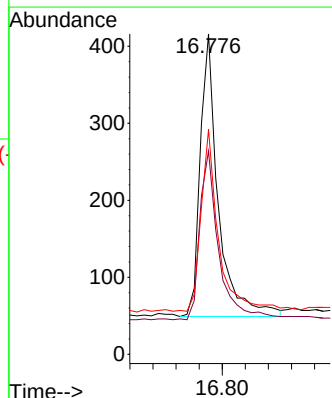
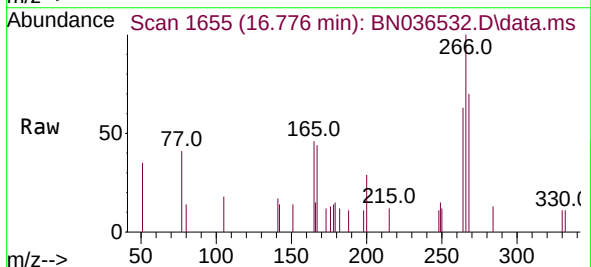
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

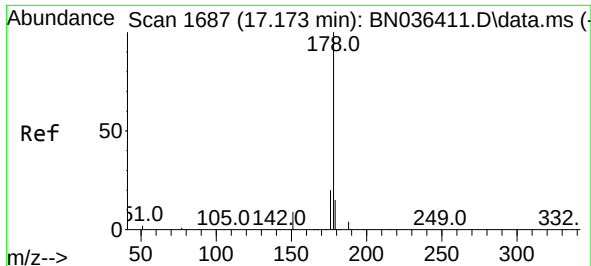
Tgt Ion:200 Resp: 1262
 Ion Ratio Lower Upper
 200 100
 173 28.3 23.2 34.8
 215 47.3 40.0 60.0



#24
 Pentachlorophenol
 Concen: 0.351 ng
 RT: 16.776 min Scan# 1655
 Delta R.T. 0.013 min
 Lab File: BN036532.D
 Acq: 05 Mar 2025 19:55

Tgt Ion:266 Resp: 801
 Ion Ratio Lower Upper
 266 100
 264 62.3 50.6 76.0
 268 62.0 51.9 77.9

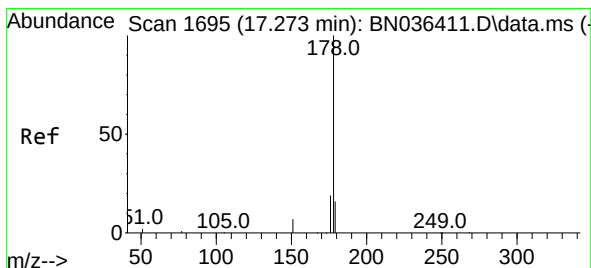
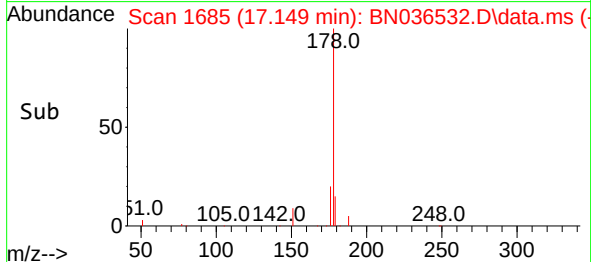
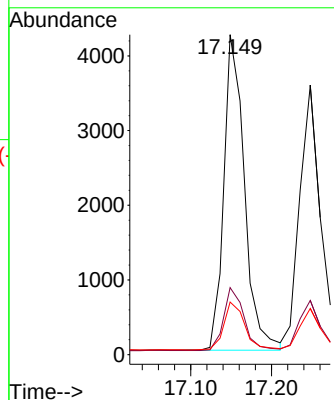
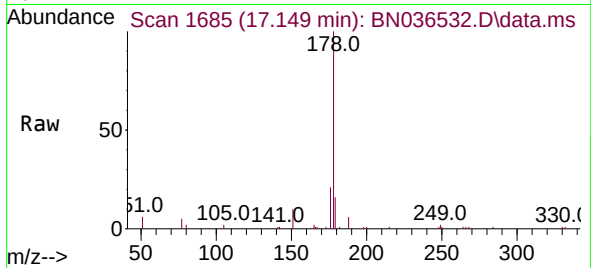




#25
 Phenanthrene
 Concen: 0.397 ng
 RT: 17.149 min Scan# 1685
 Delta R.T. 0.000 min
 Lab File: BN036532.D
 Acq: 05 Mar 2025 19:55

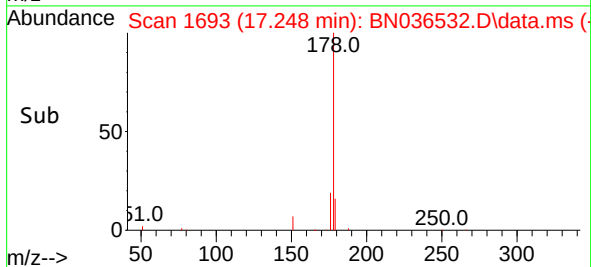
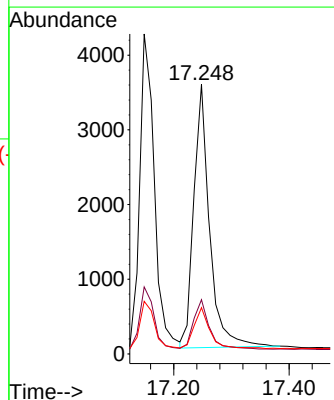
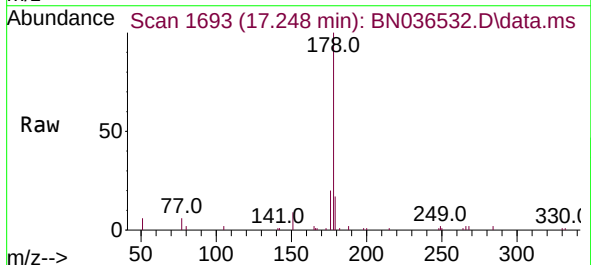
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

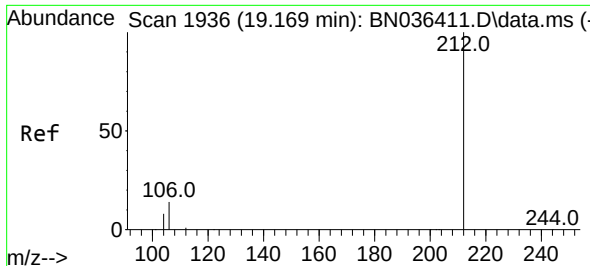
Tgt Ion:178 Resp: 7491
 Ion Ratio Lower Upper
 178 100
 176 19.8 15.7 23.5
 179 15.5 12.4 18.6



#26
 Anthracene
 Concen: 0.403 ng
 RT: 17.248 min Scan# 1693
 Delta R.T. 0.013 min
 Lab File: BN036532.D
 Acq: 05 Mar 2025 19:55

Tgt Ion:178 Resp: 6696
 Ion Ratio Lower Upper
 178 100
 176 19.3 14.9 22.3
 179 15.8 12.4 18.6

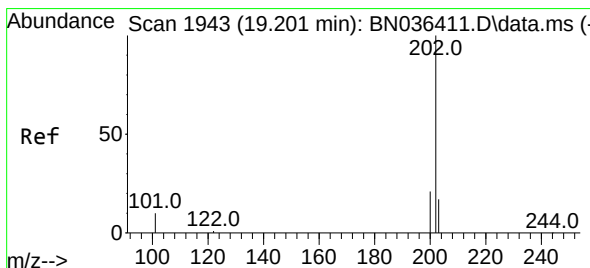
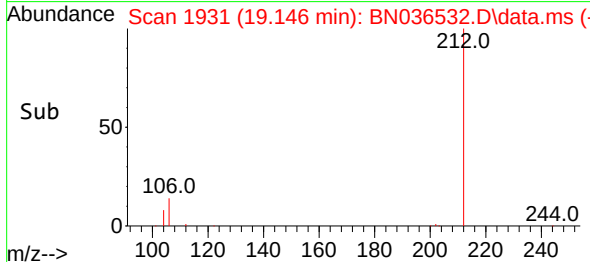
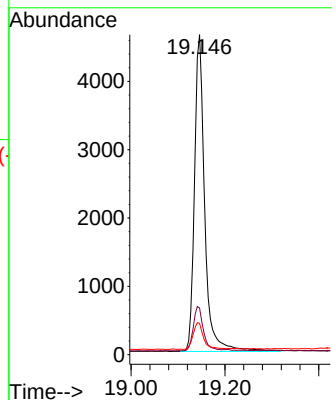
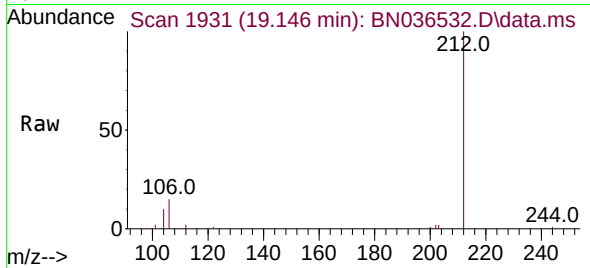




#27
Fluoranthene-d10
Concen: 0.388 ng
RT: 19.146 min Scan# 1936
Delta R.T. 0.005 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

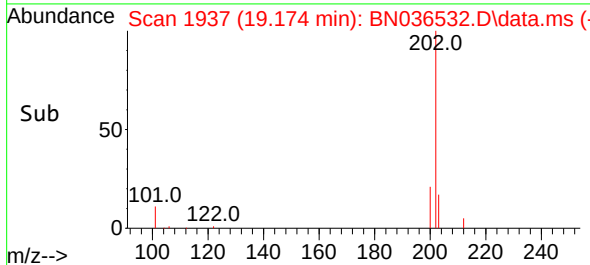
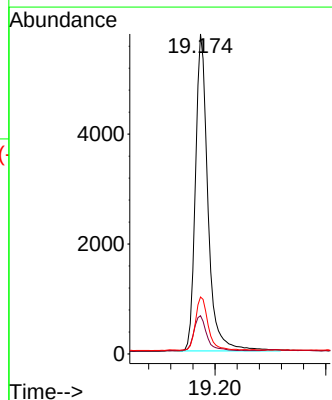
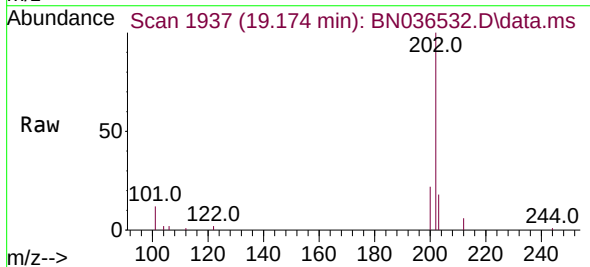
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

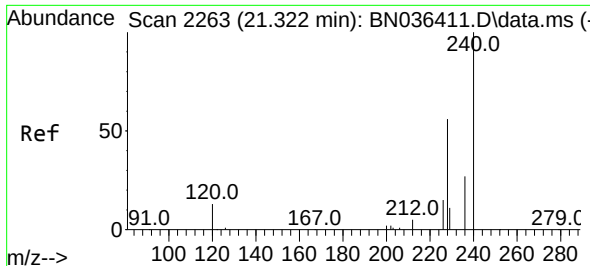
Tgt Ion:212 Resp: 7039
Ion Ratio Lower Upper
212 100
106 13.9 11.5 17.3
104 8.7 7.1 10.7



#28
Fluoranthene
Concen: 0.392 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion:202 Resp: 9074
Ion Ratio Lower Upper
202 100
101 11.4 9.2 13.8
203 16.9 13.4 20.0

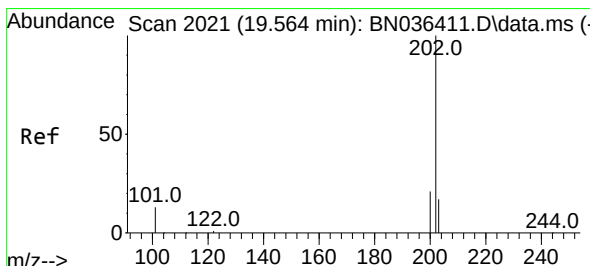
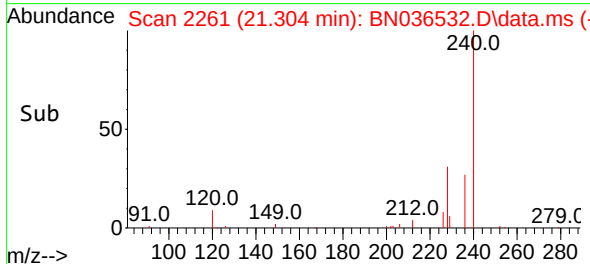
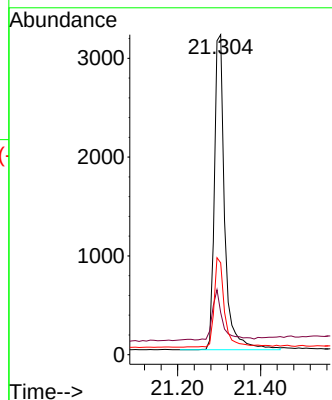
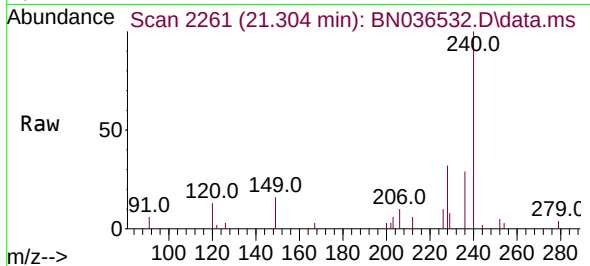




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.304 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

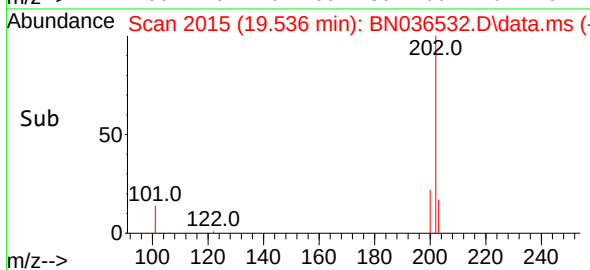
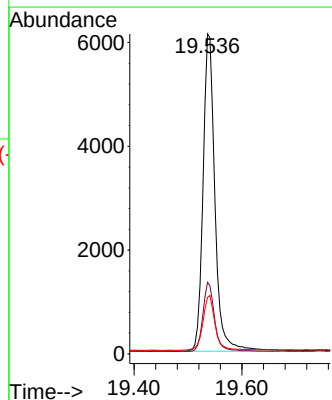
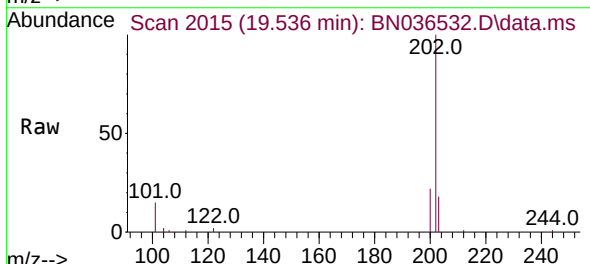
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

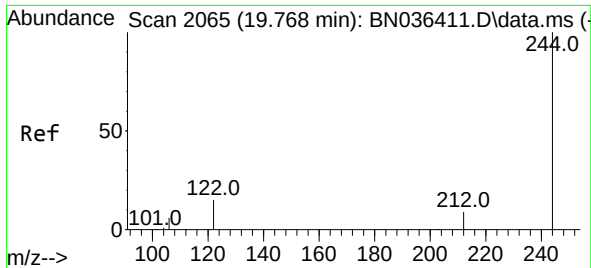
Tgt Ion:240 Resp: 5520
Ion Ratio Lower Upper
240 100
120 13.2 13.3 19.9#
236 28.7 23.0 34.6



#30
Pyrene
Concen: 0.441 ng
RT: 19.536 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion:202 Resp: 9367
Ion Ratio Lower Upper
202 100
200 21.3 16.9 25.3
203 17.5 13.9 20.9

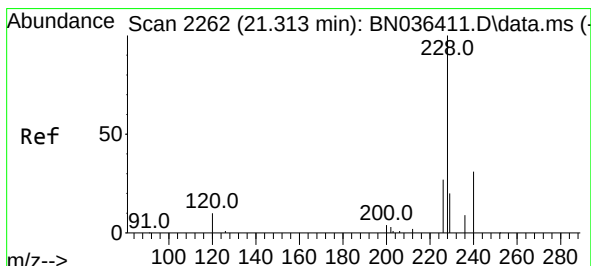
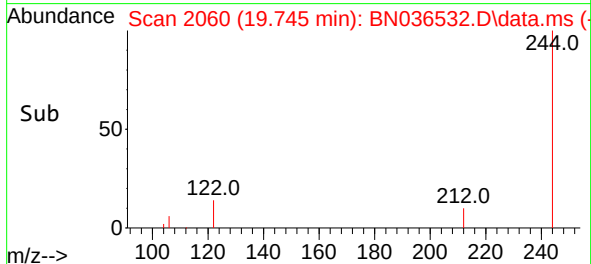
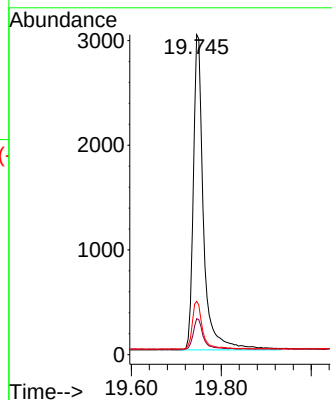
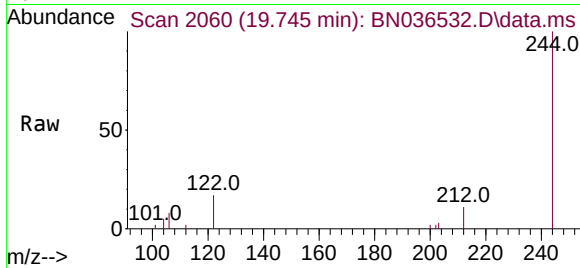




#31
 Terphenyl-d14
 Concen: 0.403 ng
 RT: 19.745 min Scan# 2065
 Delta R.T. 0.000 min
 Lab File: BN036532.D
 Acq: 05 Mar 2025 19:55

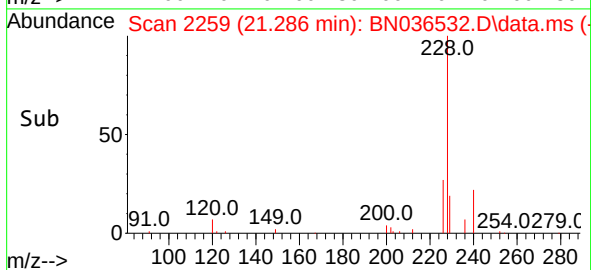
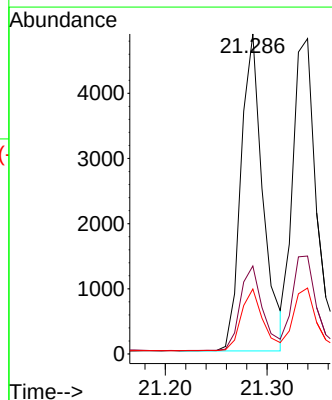
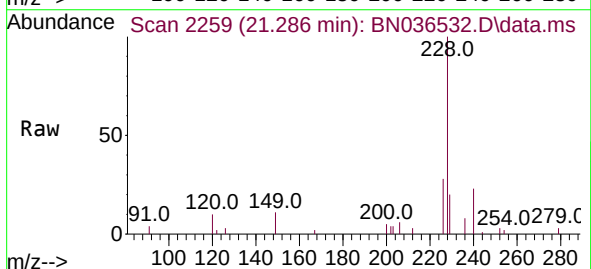
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

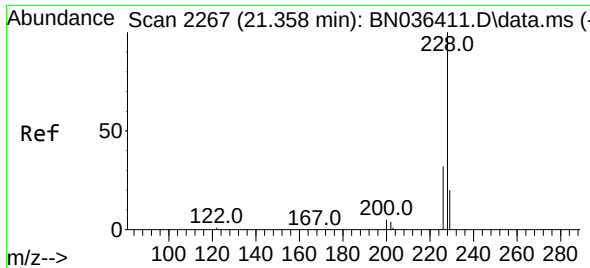
Tgt Ion:244 Resp: 4751
 Ion Ratio Lower Upper
 244 100
 212 11.3 8.1 12.1
 122 16.7 12.8 19.2



#32
 Benzo(a)anthracene
 Concen: 0.402 ng
 RT: 21.286 min Scan# 2259
 Delta R.T. 0.009 min
 Lab File: BN036532.D
 Acq: 05 Mar 2025 19:55

Tgt Ion:228 Resp: 7308
 Ion Ratio Lower Upper
 228 100
 226 27.5 22.2 33.2
 229 20.3 16.5 24.7





#33

Chrysene

Concen: 0.419 ng

RT: 21.340 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036532.D

Acq: 05 Mar 2025 19:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

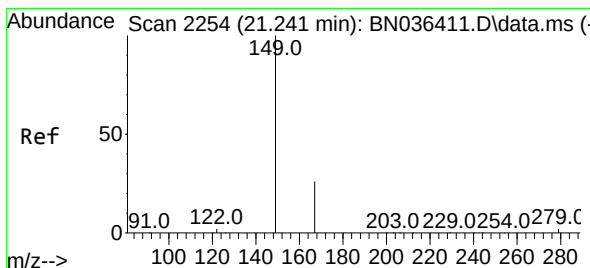
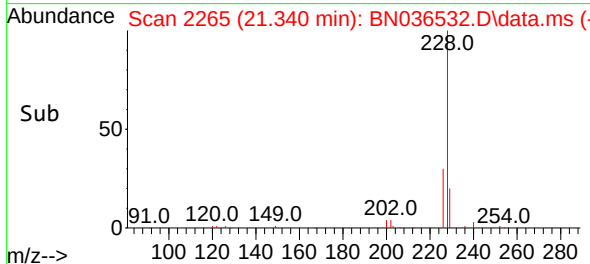
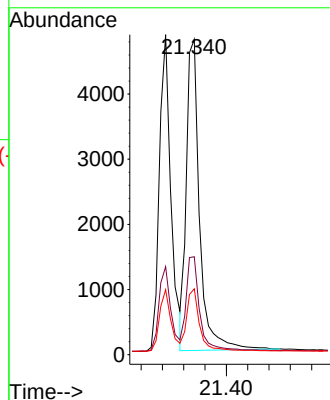
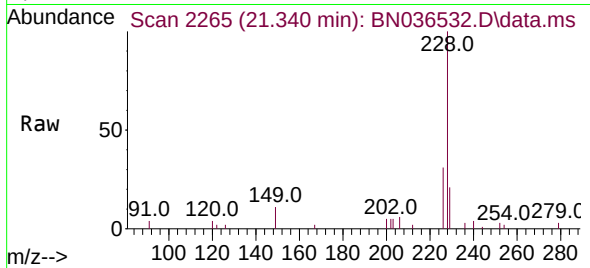
Tgt Ion:228 Resp: 8235

Ion Ratio Lower Upper

228 100

226 31.1 25.5 38.3

229 20.9 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.419 ng

RT: 21.214 min Scan# 2251

Delta R.T. 0.000 min

Lab File: BN036532.D

Acq: 05 Mar 2025 19:55

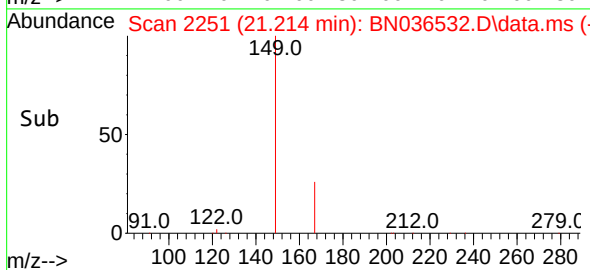
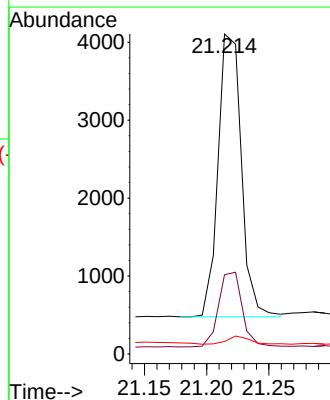
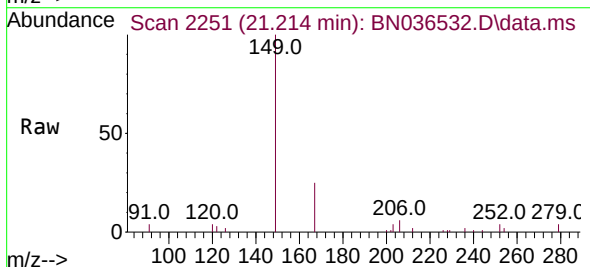
Tgt Ion:149 Resp: 4739

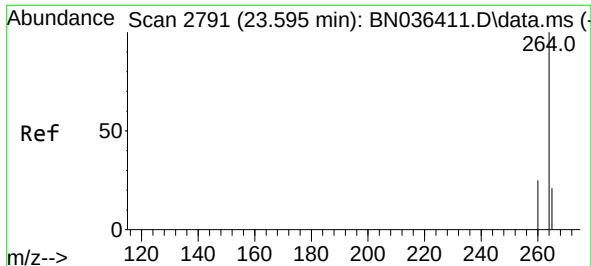
Ion Ratio Lower Upper

149 100

167 27.0 21.2 31.8

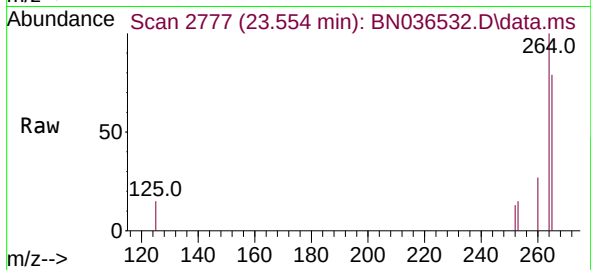
279 2.8 2.7 4.1



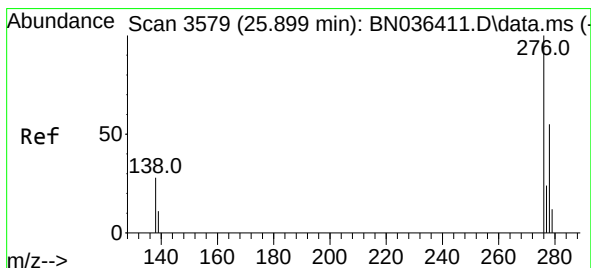
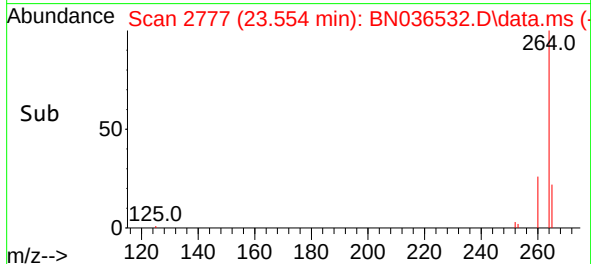
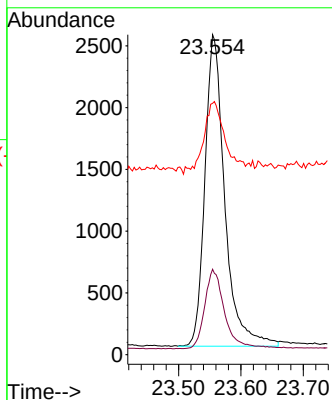


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.554 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

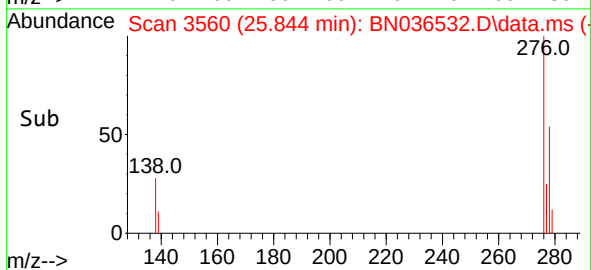
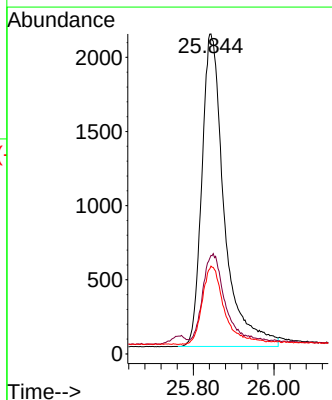
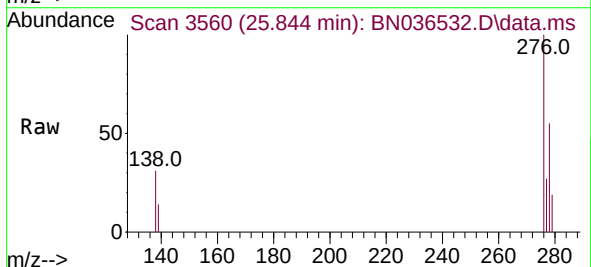


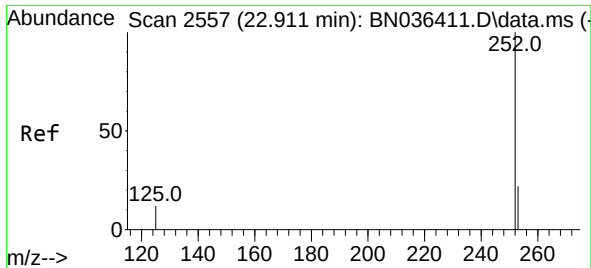
Tgt Ion:264 Resp: 5583
Ion Ratio Lower Upper
264 100
260 26.7 20.9 31.3
265 78.6 60.7 91.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.416 ng
RT: 25.844 min Scan# 3560
Delta R.T. 0.006 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion:276 Resp: 8122
Ion Ratio Lower Upper
276 100
138 26.9 22.2 33.2
277 24.7 19.8 29.6

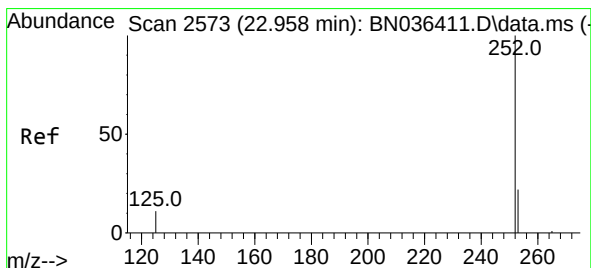
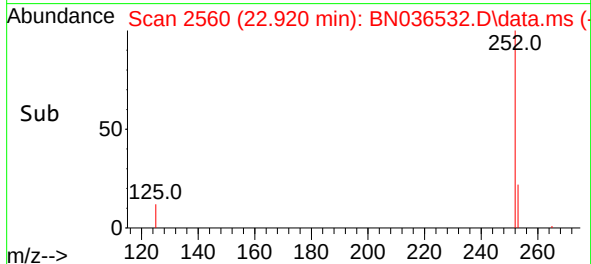
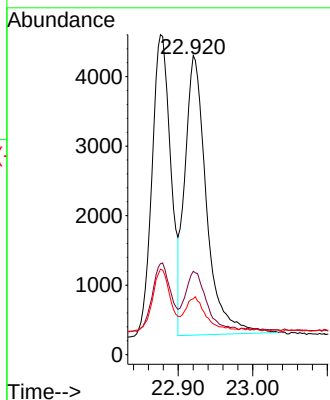
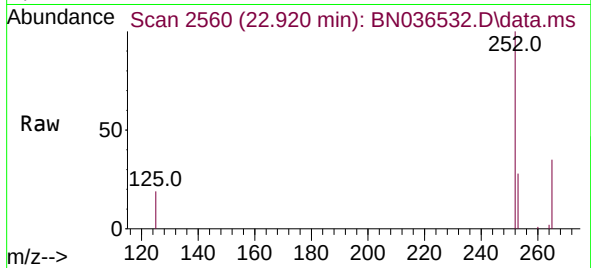




#37
Benzo(b)fluoranthene
Concen: 0.439 ng
RT: 22.920 min Scan# 2560
Delta R.T. 0.047 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

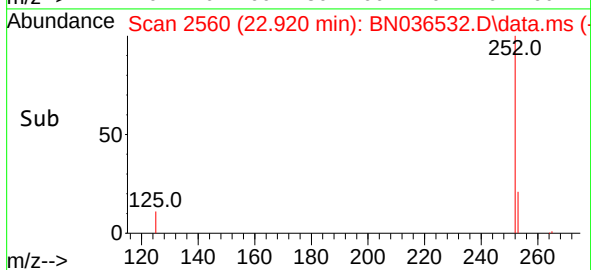
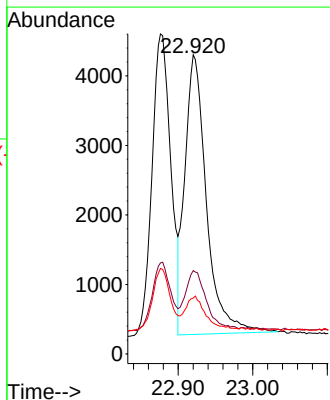
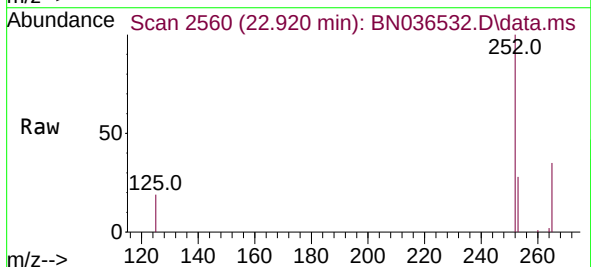
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

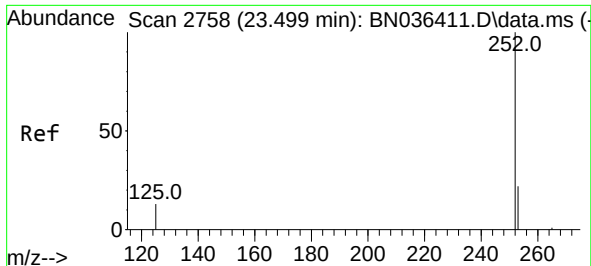
Tgt Ion:252 Resp: 8080
Ion Ratio Lower Upper
252 100
253 27.9 21.9 32.9
125 18.7 15.0 22.6



#38
Benzo(k)fluoranthene
Concen: 0.427 ng
RT: 22.920 min Scan# 2560
Delta R.T. 0.003 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Tgt Ion:252 Resp: 8080
Ion Ratio Lower Upper
252 100
253 27.9 22.2 33.4
125 18.7 15.0 22.4

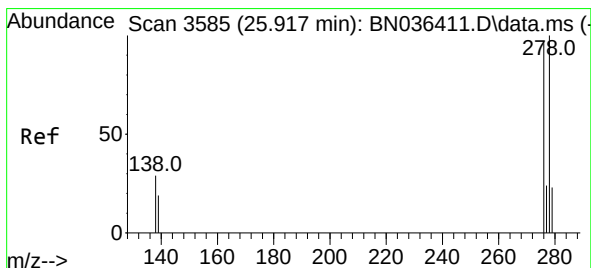
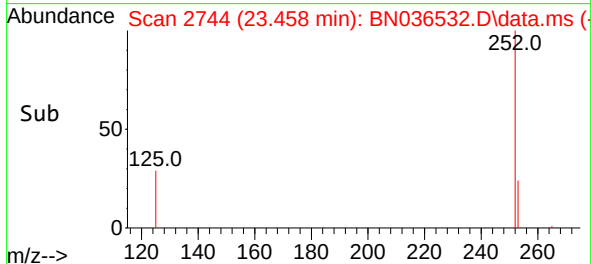
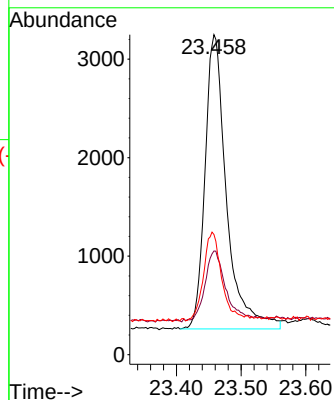
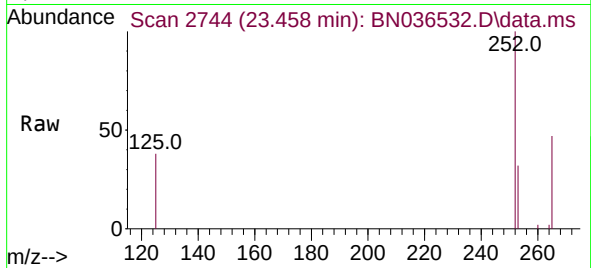




#39
Benzo(a)pyrene
Concen: 0.430 ng
RT: 23.458 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

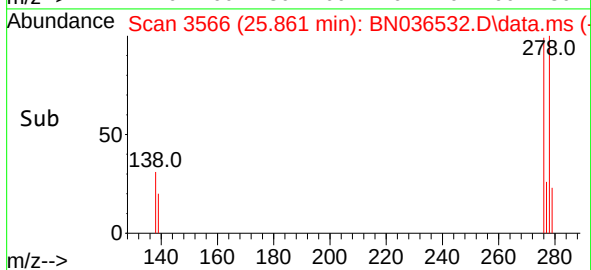
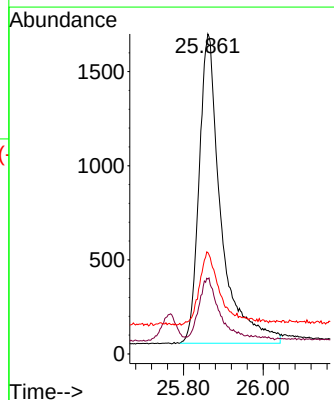
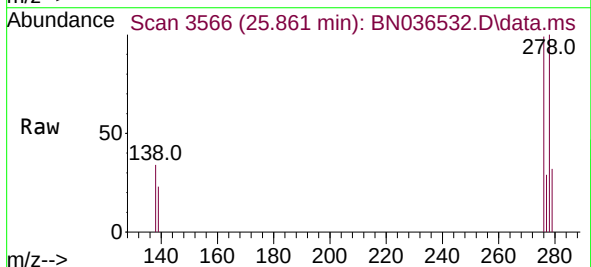
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

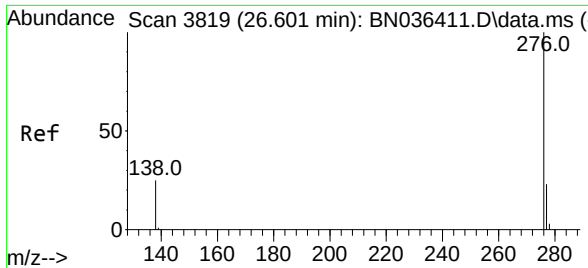
Tgt Ion:252 Resp: 6903
Ion Ratio Lower Upper
252 100
253 32.4 24.4 36.6
125 37.6 18.2 27.2#



#40
Dibenzo(a,h)anthracene
Concen: 0.406 ng
RT: 25.861 min Scan# 3566
Delta R.T. 0.009 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

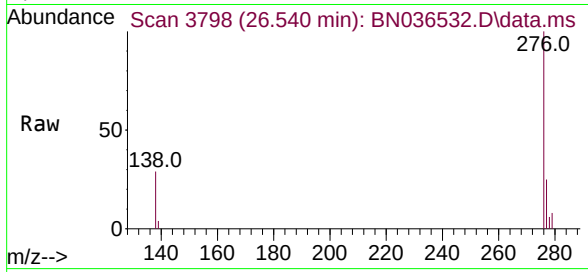
Tgt Ion:278 Resp: 6252
Ion Ratio Lower Upper
278 100
139 23.4 18.5 27.7
279 31.7 24.8 37.2





#41
Benzo(g,h,i)perylene
Concen: 0.414 ng
RT: 26.540 min Scan# 31
Delta R.T. 0.012 min
Lab File: BN036532.D
Acq: 05 Mar 2025 19:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:276 Resp: 7233
Ion Ratio Lower Upper
276 100
277 25.3 20.7 31.1
138 29.3 21.8 32.6

