

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : RW7B - 112G08005-WE13

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

ORDER ID : Q1081
ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1081

Project ID : RW7B - 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1081-01
Q1081-02
Q1081-03
Q1081-04

Client Sample Number

RW7-SP100-20250113
RW7-SP201-20250113
RW7-SP302-20250113
RW7-SP303-20250113

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

Signature : _____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 2:41 pm, Jan 23, 2025

Date: 1/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: RW7B - 112G08005-WE13

Project Manager: Ernie Wu

Chemtech Project # Q1081

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

4 Water samples were received on 01/14/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Metals Group4 and SVOC-SIMGroup1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for PB166053BL [2-Fluorobiphenyl - 127%, Nitrobenzene-d5 - 138%], PB166053BS [Nitrobenzene-d5 - 118%], PB166053BSD [Nitrobenzene-d5 - 113%], RW7-SP100-20250113 [2-Fluorobiphenyl - 117%, Nitrobenzene-d5 - 120%, Terphenyl-d14 - 145%], RW7-SP100-20250113DL [Nitrobenzene-d5 - 122%, Terphenyl-d14 - 138%], RW7-SP201-20250113 [2-Fluorobiphenyl - 108%, Nitrobenzene-d5 - 114%, Terphenyl-d14 - 135%], RW7-SP302-20250113 [2-Fluorobiphenyl - 108%, Nitrobenzene-d5 - 123%, Terphenyl-d14 - 138%], RW7-SP303-20250113 [2-Fluorobiphenyl - 123%, Nitrobenzene-d5 - 128% and Terphenyl-d14 - 152%], The 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 BN035926.D met the requirements except for 2,4,6-Tribromophenol, The failure

compound not associated with the client parameters list, therefore no corrective action was taken.

The Tuning criteria met requirements.

Sample RW7-SP100-20250113 was diluted due to high concentration.

E. Additional Comments:

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

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

The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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

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

Signature_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 2:41 pm, Jan 23, 2025

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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

CHEMTECH PROJECT NUMBER: Q1081

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 BN035926.D met the requirements except for 2,4,6-Tribromophenol, The failure compound not associated with the client parameters list, therefore no corrective action was taken.		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	

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

The Surrogate recoveries met the acceptable criteria except for PB166053BL [2-Fluorobiphenyl - 127%, Nitrobenzene-d5 - 138%], PB166053BS [Nitrobenzene-d5 - 118%], PB166053BSD [Nitrobenzene-d5 - 113%], RW7-SP100-20250113 [2-Fluorobiphenyl - 117%, Nitrobenzene-d5 - 120%, Terphenyl-d14 - 145%], RW7-SP100-20250113DL [Nitrobenzene-d5 - 122%, Terphenyl-d14 - 138%], RW7-SP201-20250113 [2-Fluorobiphenyl - 108%, Nitrobenzene-d5 - 114%, Terphenyl-d14 - 135%], RW7-SP302-20250113 [2-Fluorobiphenyl - 108%, Nitrobenzene-d5 - 123%, Terphenyl-d14 - 138%], RW7-SP303-20250113 [2-Fluorobiphenyl - 123%, Nitrobenzene-d5 - 128% and Terphenyl-d14 - 152%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

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

(CONTINUED)

	NA	NO	YES
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The Blank Spike met requirements for all samples .			
The Blank Spike Duplicate met requirements for all samples .			
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).”
Sample RW7-SP100-20250113 was diluted due to high concentration.

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

The not QT review data is reported in the Miscellaneous.

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

REVIEWED

QA REVIEW

By Sohil Jodhani, QA/QC Director at 2:29 pm, Jan 23, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1081

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MOHAMMAD AHMED

Date: 01/17/2025

LAB CHRONICLE

OrderID:	Q1081	OrderDate:	1/14/2025 10:28:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	RW7B - 112G08005-WE13
Contact:	Ernie Wu	Location:	N41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1081-01	RW7-SP100-20250113	Water			01/13/25			01/14/25
			SVOC-SIMGroup1	8270-Modified		01/14/25	01/15/25	
Q1081-01DL	RW7-SP100-20250113DL	Water			01/13/25			01/14/25
			SVOC-SIMGroup1	8270-Modified		01/14/25	01/15/25	
Q1081-02	RW7-SP201-20250113	Water			01/13/25			01/14/25
			SVOC-SIMGroup1	8270-Modified		01/14/25	01/15/25	
Q1081-03	RW7-SP302-20250113	Water			01/13/25			01/14/25
			SVOC-SIMGroup1	8270-Modified		01/14/25	01/15/25	
Q1081-04	RW7-SP303-20250113	Water			01/13/25			01/14/25
			SVOC-SIMGroup1	8270-Modified		01/14/25	01/15/25	



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

Hit Summary Sheet SW-846

SDG No.: Q1081

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW7-SP100-20250113								
Q1081-01	RW7-SP100-20250113	WATER	1,4-Dioxane	5.200	E	0.07	0.2	0.2 ug/L
			Total Svoc :	5.20				
			Total Concentration:	5.20				
Client ID : RW7-SP100-20250113DL								
Q1081-01DL	RW7-SP100-20250113DI	WATER	1,4-Dioxane	4.600	D	0.14	0.4	0.4 ug/L
			Total Svoc :	4.60				
			Total Concentration:	4.60				



QC SUMMARY

- 1
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Surrogate Summary

SW-846

SDG No.: Q1081

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB166053BL	PB166053BL	2-Methylnaphthalene-d10	0.4	0.50	125		30	150
		Fluoranthene-d10	0.4	0.49	122		30	150
		Nitrobenzene-d5	0.4	0.55	138	*	55	111
		2-Fluorobiphenyl	0.4	0.51	127	*	53	106
		Terphenyl-d14	0.4	0.52	130		58	132
PB166053BS	PB166053BS	2-Methylnaphthalene-d10	0.4	0.40	100		30	150
		Fluoranthene-d10	0.4	0.40	101		30	150
		Nitrobenzene-d5	0.4	0.47	118	*	55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.44	109		58	132
PB166053BSD	PB166053BSD	2-Methylnaphthalene-d10	0.4	0.40	99		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.45	113	*	55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.42	104		58	132
Q1081-01	RW7-SP100-20250113	2-Methylnaphthalene-d10	0.4	0.47	116		30	150
		Fluoranthene-d10	0.4	0.54	134		30	150
		Nitrobenzene-d5	0.4	0.48	120	*	55	111
		2-Fluorobiphenyl	0.4	0.47	117	*	53	106
		Terphenyl-d14	0.4	0.58	145	*	58	132
Q1081-01DL	RW7-SP100-20250113DL	2-Methylnaphthalene-d10	0.4	0.45	113		30	150
		Fluoranthene-d10	0.4	0.52	131		30	150
		Nitrobenzene-d5	0.4	0.49	122	*	55	111
		2-Fluorobiphenyl	0.4	0.42	106		53	106
		Terphenyl-d14	0.4	0.55	138	*	58	132
Q1081-02	RW7-SP201-20250113	2-Methylnaphthalene-d10	0.4	0.44	110		30	150
		Fluoranthene-d10	0.4	0.52	131		30	150
		Nitrobenzene-d5	0.4	0.46	114	*	55	111
		2-Fluorobiphenyl	0.4	0.43	108	*	53	106
		Terphenyl-d14	0.4	0.54	135	*	58	132
Q1081-03	RW7-SP302-20250113	2-Methylnaphthalene-d10	0.4	0.45	113		30	150
		Fluoranthene-d10	0.4	0.55	136		30	150
		Nitrobenzene-d5	0.4	0.49	123	*	55	111
		2-Fluorobiphenyl	0.4	0.43	108	*	53	106
		Terphenyl-d14	0.4	0.55	138	*	58	132
Q1081-04	RW7-SP303-20250113	2-Methylnaphthalene-d10	0.4	0.49	122		30	150
		Fluoranthene-d10	0.4	0.56	139		30	150
		Nitrobenzene-d5	0.4	0.51	128	*	55	111
		2-Fluorobiphenyl	0.4	0.49	123	*	53	106
		Terphenyl-d14	0.4	0.61	152	*	58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1081

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035933.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	
								Qual		High	RPD
PB166053BS	1,4-Dioxane	0.4	0.36	ug/L	90				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1081

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035934.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB166053BSD	1,4-Dioxane	0.4	0.41	ug/L	103	13			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166053BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1081

SAS No.: Q1081 SDG NO.: Q1081

Lab File ID: BN035927.D

Lab Sample ID: PB166053BL

Instrument ID: BNA_N

Date Extracted: 01/14/2025

Matrix: (soil/water) Water

Date Analyzed: 01/15/2025

Level: (low/med) LOW

Time Analyzed: 11:03

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166053BS	PB166053BS	BN035933.D	01/15/2025
RW7-SP100-20250113	Q1081-01	BN035928.D	01/15/2025
RW7-SP201-20250113	Q1081-02	BN035929.D	01/15/2025
RW7-SP302-20250113	Q1081-03	BN035930.D	01/15/2025
PB166053BSD	PB166053BSD	BN035934.D	01/15/2025
RW7-SP303-20250113	Q1081-04	BN035932.D	01/15/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1081SDG NO.: Q1081Lab File ID: BN035870.DDFTPP Injection Date: 01/02/2025Instrument ID: BNA_NDFTPP Injection Time: 10:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.9
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	39
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	43.4
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.2
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	3.3
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	12.1 (19.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN035871.D	01/02/2025	11:28
SSTDICC0.2	SSTDICC0.2	BN035872.D	01/02/2025	12:04
SSTDICCC0.4	SSTDICCC0.4	BN035873.D	01/02/2025	12:40
SSTDICC0.8	SSTDICC0.8	BN035874.D	01/02/2025	13:16
SSTDICC1.6	SSTDICC1.6	BN035875.D	01/02/2025	13:52
SSTDICC3.2	SSTDICC3.2	BN035876.D	01/02/2025	14:28
SSTDICC5.0	SSTDICC5.0	BN035877.D	01/02/2025	15:04



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1081SDG NO.: Q1081Lab File ID: BN035925.DDFTPP Injection Date: 01/15/2025Instrument ID: BNA_NDFTPP Injection Time: 09:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	54.6
68	Less than 2.0% of mass 69	0.4 (1) 1
69	Mass 69 relative abundance	46.9
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	47.2
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	6.9
275	10.0 - 60.0% of mass 198	26.4
365	Greater than 1% of mass 198	4.9
441	Present, but less than mass 443	10
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.8 (17.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035926.D	01/15/2025	10:27
PB166053BL	PB166053BL	BN035927.D	01/15/2025	11:03
RW7-SP100-20250113	Q1081-01	BN035928.D	01/15/2025	11:39
RW7-SP201-20250113	Q1081-02	BN035929.D	01/15/2025	12:15
RW7-SP302-20250113	Q1081-03	BN035930.D	01/15/2025	12:51
RW7-SP100-20250113DL	Q1081-01DL	BN035931.D	01/15/2025	13:27
RW7-SP303-20250113	Q1081-04	BN035932.D	01/15/2025	14:02
PB166053BS	PB166053BS	BN035933.D	01/15/2025	16:24
PB166053BSD	PB166053BSD	BN035934.D	01/15/2025	17:00
SSTDCCC0.4EC	SSTDCCC0.4	BN035935.D	01/15/2025	17:36

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1081 SAS No.: Q1081 SDG NO.: Q1081

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 01/15/2025

Lab File ID: BN035926.D Time Analyzed: 10:27

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	1122	7.824	1996	10.62	954	14.46
UPPER LIMIT	2244	8.324	3992	11.122	1908	14.963
LOWER LIMIT	561	7.324	998	10.122	477	13.963
EPA SAMPLE NO.						
01 PB166053BL	922	7.83	1746	10.62	846	14.46
02 RW7-SP100-20250113	706	7.83	1333	10.62	657	14.46
03 PB166053BS	941	7.82	1790	10.62	956	14.46
04 RW7-SP201-20250113	707	7.83	1337	10.62	689	14.46
05 PB166053BSD	930	7.83	1684	10.62	890	14.46
06 RW7-SP100-20250113DL	697	7.83	1310	10.62	702	14.46
07 RW7-SP302-20250113	624	7.83	1211	10.62	641	14.46
08 RW7-SP303-20250113	634	7.83	1190	10.62	633	14.45

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.: Q1081 SAS No.: Q1081 SDG NO.: Q1081

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 01/15/2025

Lab File ID: BN035926.D Time Analyzed: 10:27

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	1813	17.199	1614	21.376	1998	23.677
UPPER LIMIT	3626	17.699	3228	21.876	3996	24.177
LOWER LIMIT	906.5	16.699	807	20.876	999	23.177
EPA SAMPLE NO.						
01 PB166053BL	1699	17.20	1454	21.38	1672	23.68
02 RW7-SP100-20250113	1190	17.20	1015	21.38	1185	23.68
03 PB166053BS	1886	17.20	1502	21.38	1677	23.68
04 RW7-SP201-20250113	1430	17.19	1321	21.38	1476	23.67
05 PB166053BSD	1752	17.20	1461	21.38	1685	23.68
06 RW7-SP100-20250113DL	1447	17.20	1312	21.38	1477	23.68
07 RW7-SP302-20250113	1308	17.19	1187	21.38	1308	23.67
08 RW7-SP303-20250113	1322	17.20	1184	21.38	1334	23.68

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/13/25
Project:	RW7B - 112G08005-WE13	Date Received:	01/14/25
Client Sample ID:	RW7-SP100-20250113	SDG No.:	Q1081
Lab Sample ID:	Q1081-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035928.D	1	01/14/25 11:00	01/15/25 11:39	PB166053

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.20	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.47		30 - 150		116%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.54		30 - 150		134%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.48	*	55 - 111		120%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.47	*	53 - 106		117%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.58	*	58 - 132		145%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	706		7.832			
1146-65-2	Naphthalene-d8	1330		10.622			
15067-26-2	Acenaphthene-d10	657		14.463			
1517-22-2	Phenanthrene-d10	1190		17.199			
1719-03-5	Chrysene-d12	1020		21.376			
1520-96-3	Perylene-d12	1190		23.678			

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\BN011525\
Data File : BN035928.D
Acq On : 15 Jan 2025 11:39
Operator : RC/JU
Sample : Q1081-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113

Quant Time: Jan 15 12:08:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

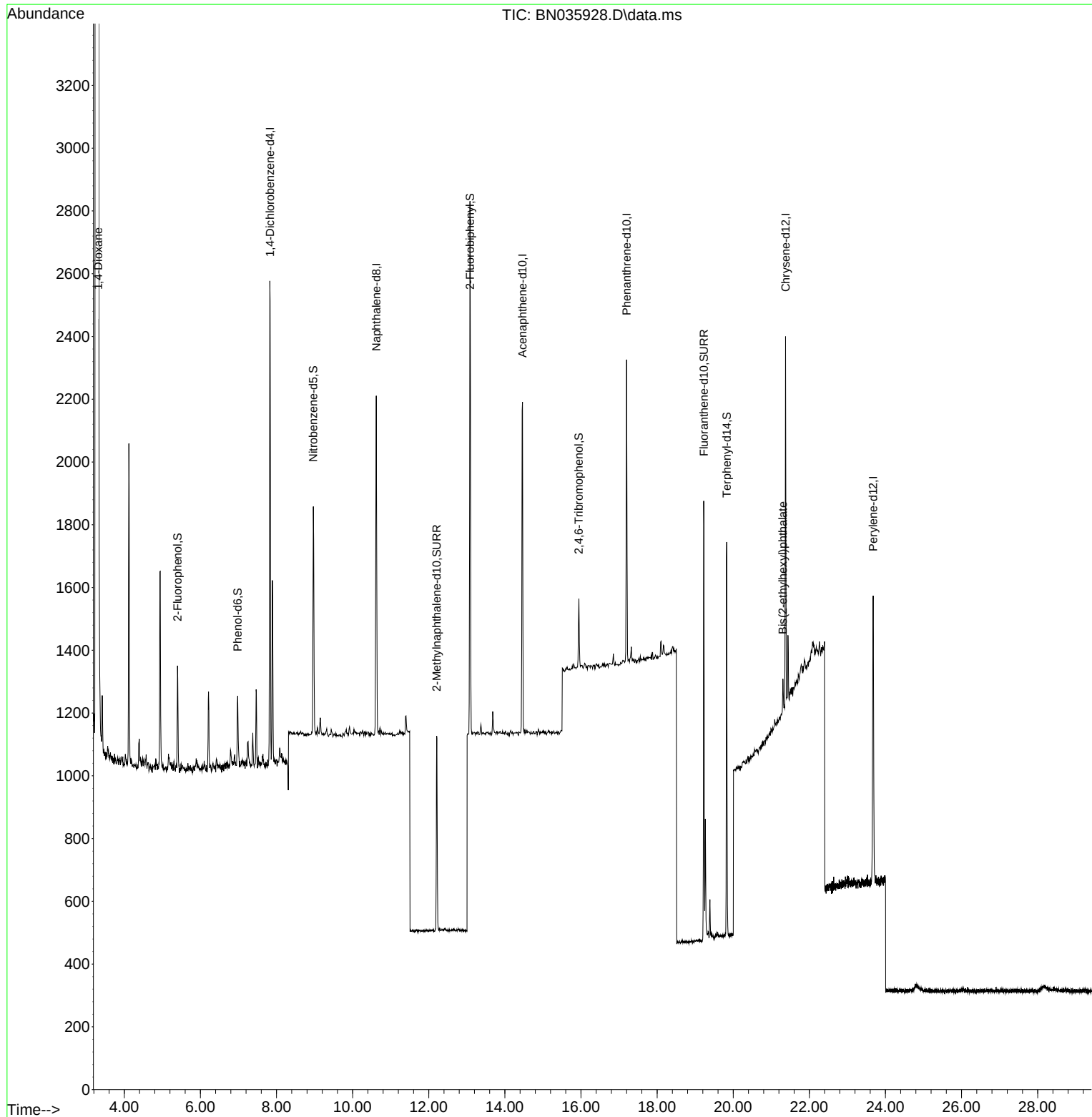
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	706	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1333	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	657	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1190	0.400	ng	#-0.01
29) Chrysene-d12	21.376	240	1015	0.400	ng	0.00
35) Perylene-d12	23.678	264	1185	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.398	112	234	0.135	ng	-0.01
5) Phenol-d6	6.979	99	171	0.079	ng	0.00
8) Nitrobenzene-d5	8.967	82	507	0.480	ng	-0.01
11) 2-Methylnaphthalene-d10	12.208	152	831	0.466	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	124	0.393	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	1353	0.469	ng	0.00
27) Fluoranthene-d10	19.225	212	1584	0.536	ng	-0.01
31) Terphenyl-d14	19.829	244	1173	0.580	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.318	88	3644	5.197	ng	# 93
34) Bis(2-ethylhexyl)phtha...	21.304	149	126	0.087	ng	# 90

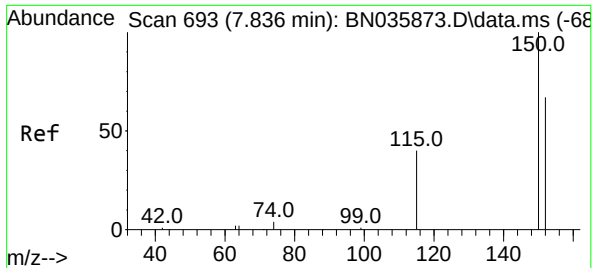
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035928.D
Acq On : 15 Jan 2025 11:39
Operator : RC/JU
Sample : Q1081-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113

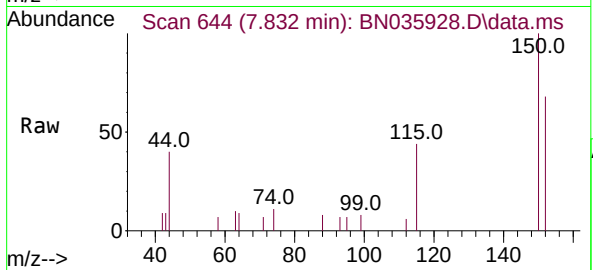
Quant Time: Jan 15 12:08:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration



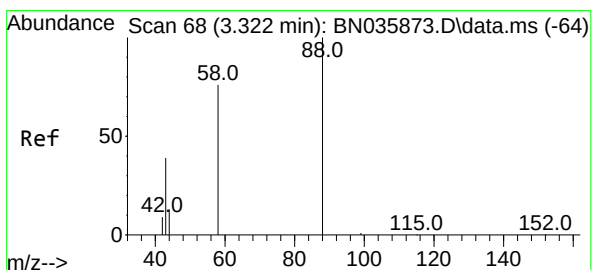
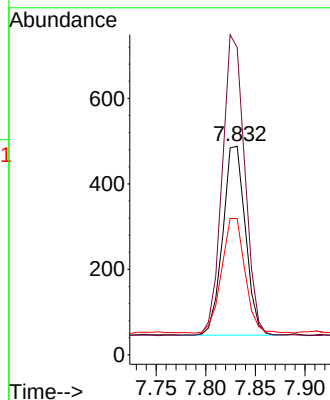
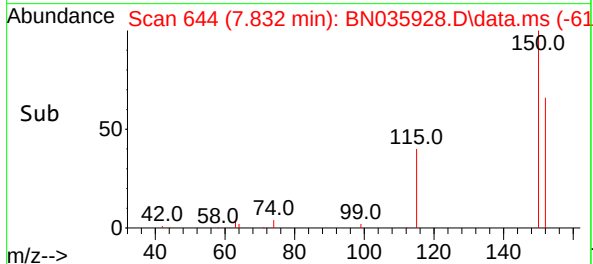


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.832 min Scan# 64
 Delta R.T. -0.004 min
 Lab File: BN035928.D
 Acq: 15 Jan 2025 11:39

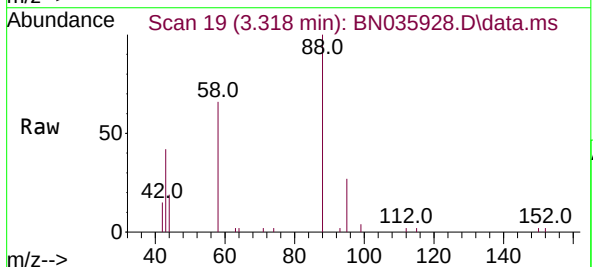
Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP100-20250113



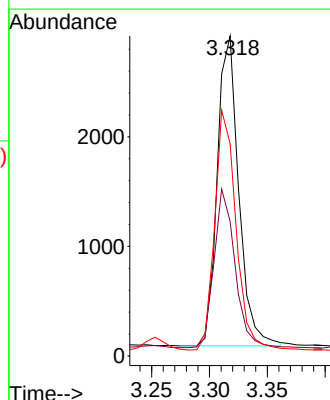
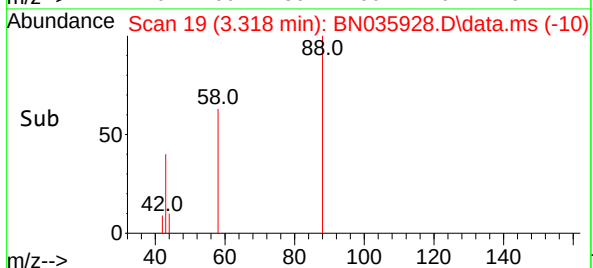
Tgt Ion:152 Resp: 706
 Ion Ratio Lower Upper
 152 100
 150 147.3 117.8 176.6
 115 65.4 51.0 76.4

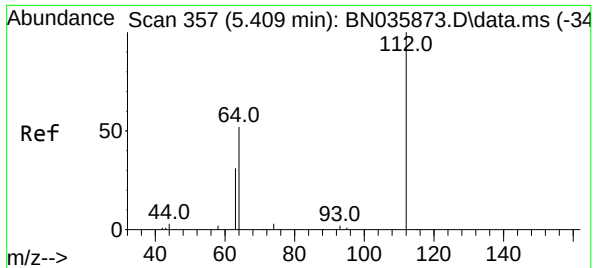


#2
 1,4-Dioxane
 Concen: 5.197 ng
 RT: 3.318 min Scan# 19
 Delta R.T. -0.004 min
 Lab File: BN035928.D
 Acq: 15 Jan 2025 11:39



Tgt Ion: 88 Resp: 3644
 Ion Ratio Lower Upper
 88 100
 43 50.2 32.7 49.1#
 58 76.5 63.0 94.4

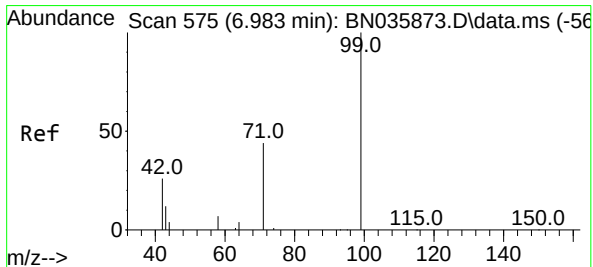
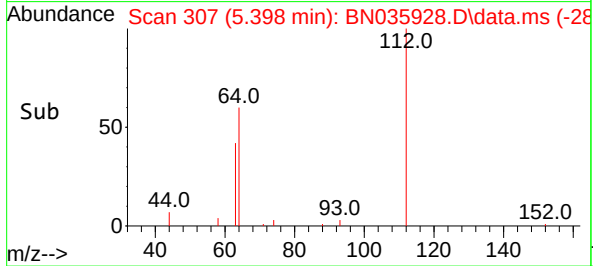
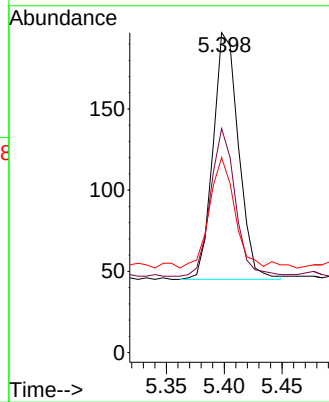
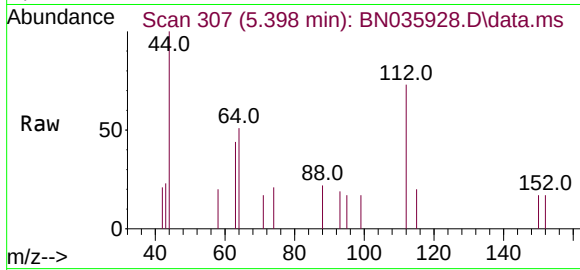




#4
2-Fluorophenol
Concen: 0.135 ng
RT: 5.398 min Scan# 307
Delta R.T. -0.011 min
Lab File: BN035928.D
Acq: 15 Jan 2025 11:39

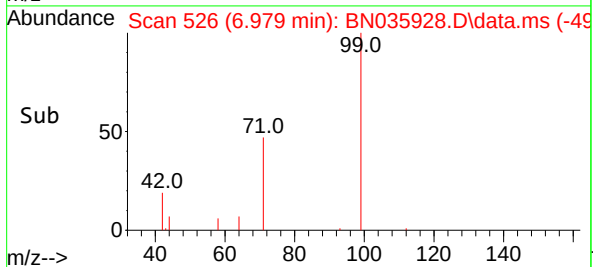
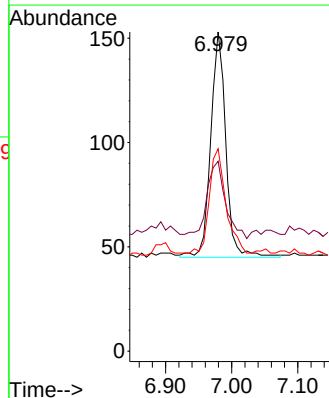
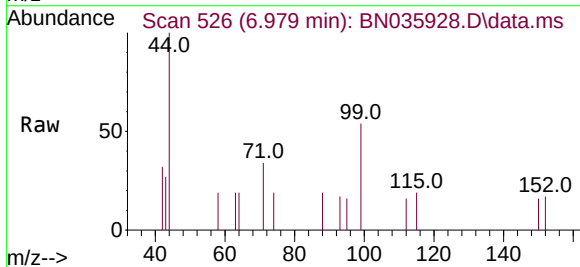
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113

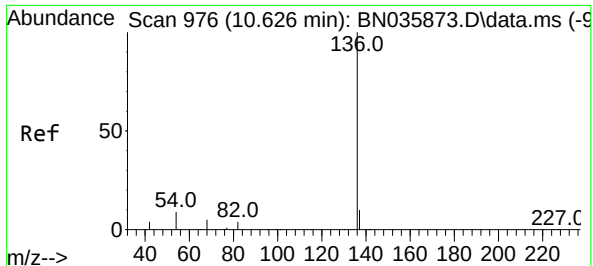
Tgt Ion:	112	Resp:	234
Ion	Ratio	Lower	Upper
112	100		
64	57.7	48.2	72.2
63	43.6	30.0	45.0



#5
Phenol-d6
Concen: 0.079 ng
RT: 6.979 min Scan# 526
Delta R.T. -0.004 min
Lab File: BN035928.D
Acq: 15 Jan 2025 11:39

Tgt Ion:	99	Resp:	171
Ion	Ratio	Lower	Upper
99	100		
42	42.7	23.5	35.3#
71	52.0	35.5	53.3

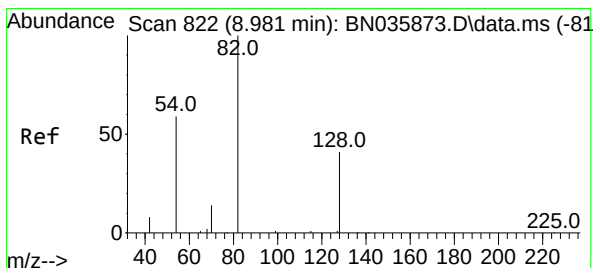
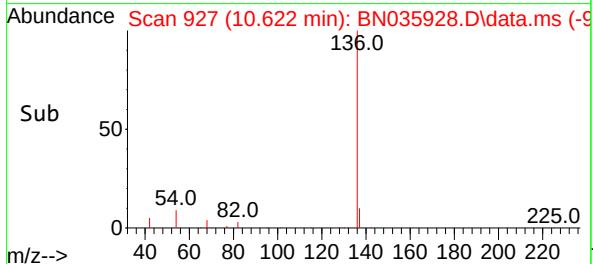
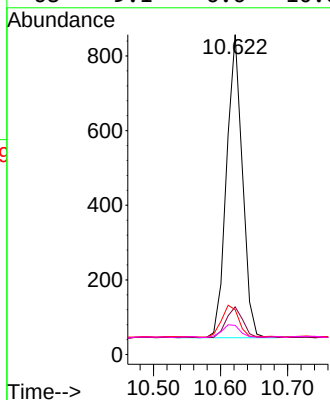
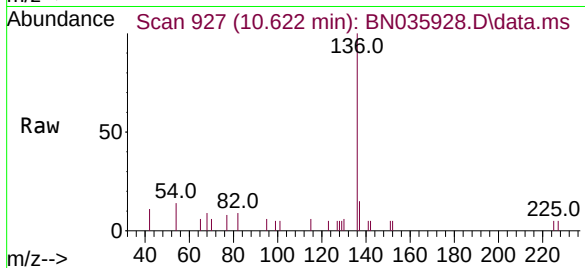




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035928.D
Acq: 15 Jan 2025 11:39

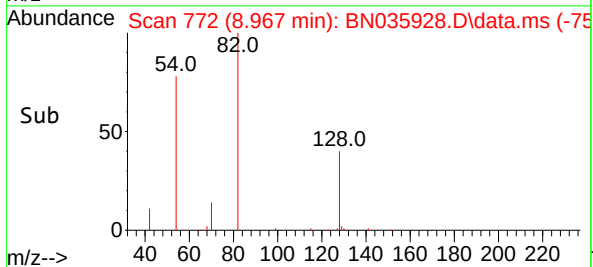
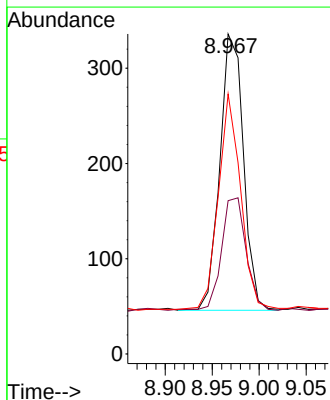
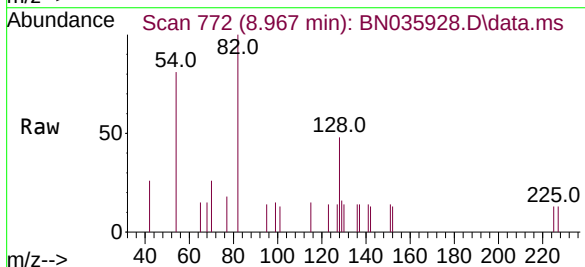
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113

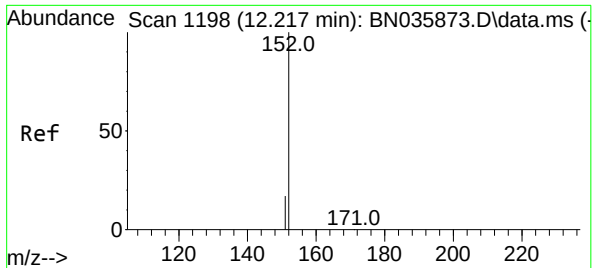
Tgt Ion:	136	Resp:	1333
Ion	Ratio	Lower	Upper
136	100		
137	14.9	10.6	15.8
54	14.0	9.8	14.6
68	9.1	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.480 ng
RT: 8.967 min Scan# 772
Delta R.T. -0.015 min
Lab File: BN035928.D
Acq: 15 Jan 2025 11:39

Tgt Ion:	82	Resp:	507
Ion	Ratio	Lower	Upper
82	100		
128	47.9	36.9	55.3
54	81.3	50.4	75.6

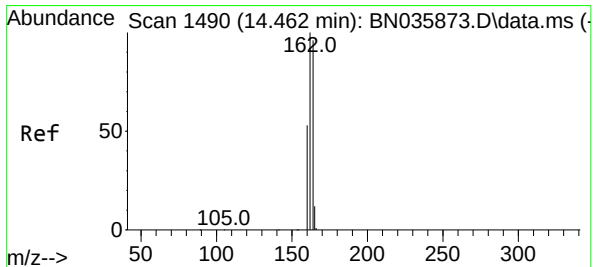
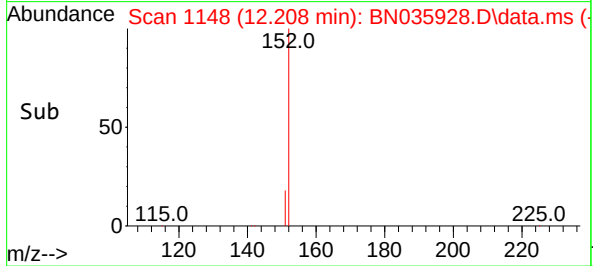
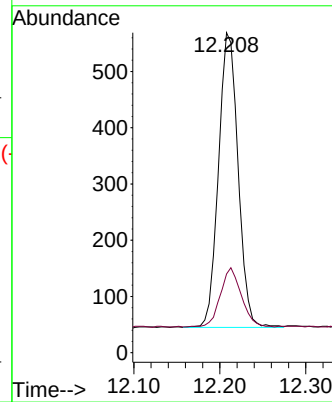
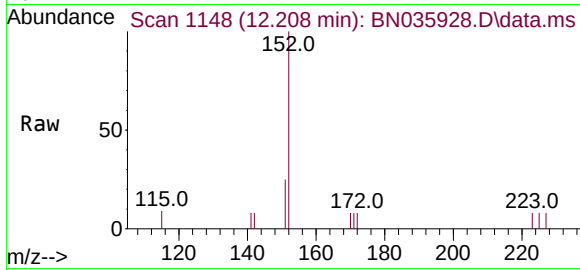




#11
2-Methylnaphthalene-d10
Concen: 0.466 ng
RT: 12.208 min Scan# 1198
Delta R.T. -0.009 min
Lab File: BN035928.D
Acq: 15 Jan 2025 11:39

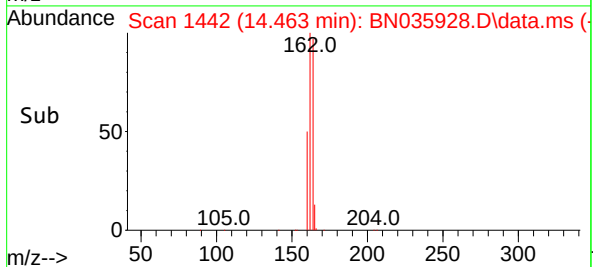
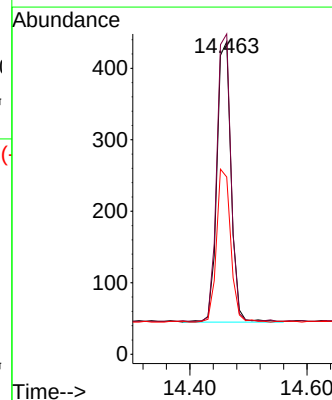
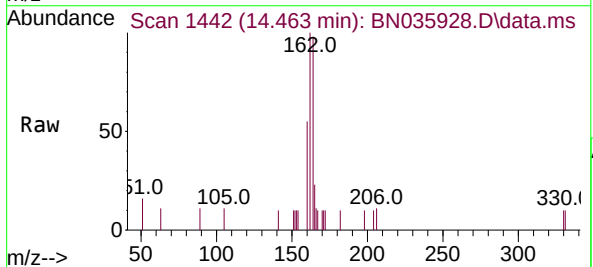
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113

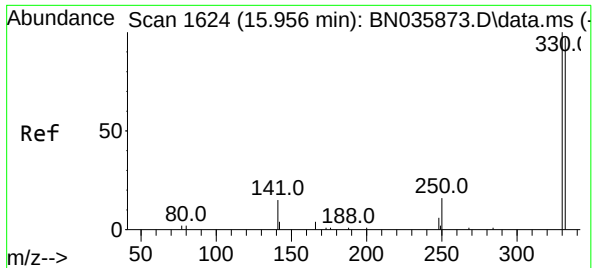
Tgt Ion:152 Resp: 831
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 1442
Delta R.T. 0.001 min
Lab File: BN035928.D
Acq: 15 Jan 2025 11:39

Tgt Ion:164 Resp: 657
Ion Ratio Lower Upper
164 100
162 102.5 83.1 124.7
160 56.8 46.0 69.0

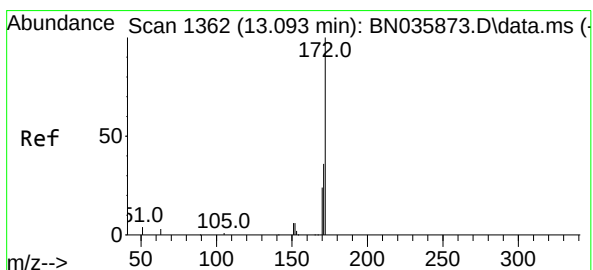
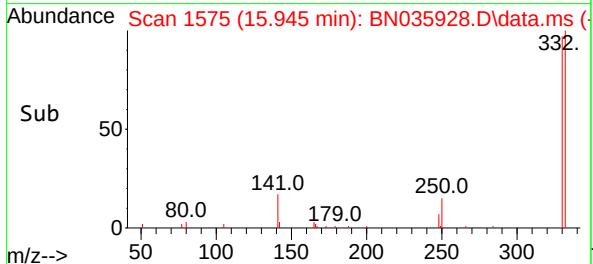
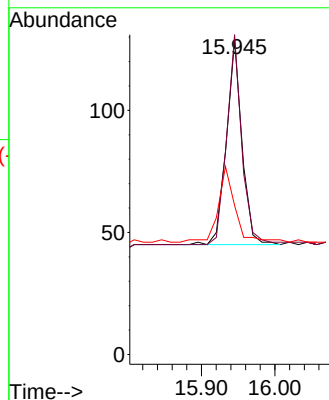
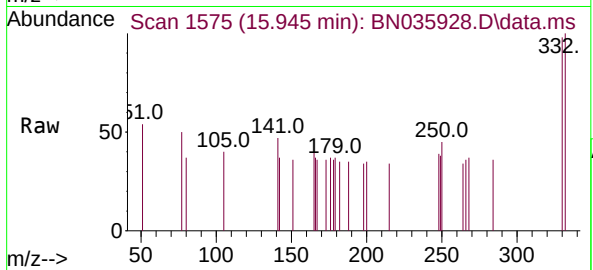




#14
2,4,6-Tribromophenol
Concen: 0.393 ng
RT: 15.945 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035928.D
Acq: 15 Jan 2025 11:39

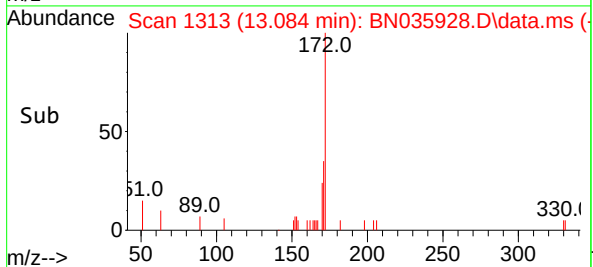
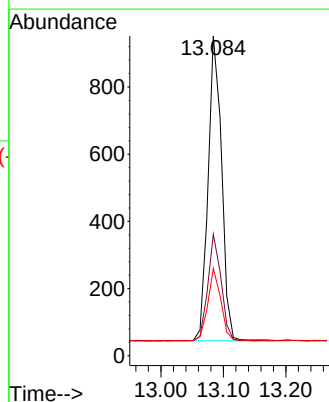
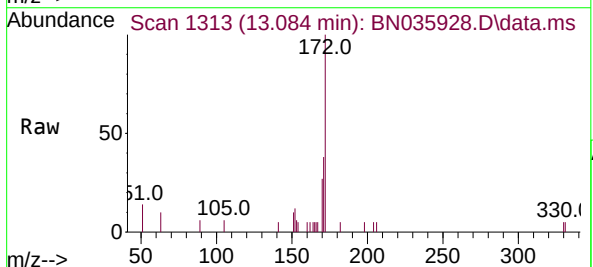
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113

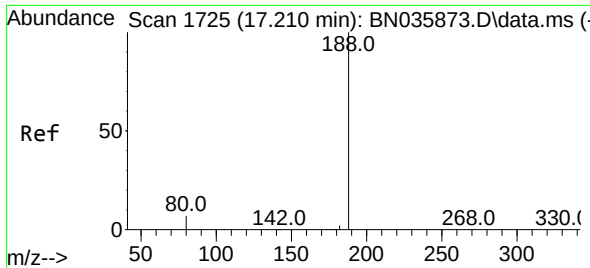
Tgt Ion:330 Resp: 124
Ion Ratio Lower Upper
330 100
332 101.6 77.2 115.8
141 40.3 31.6 47.4



#15
2-Fluorobiphenyl
Concen: 0.469 ng
RT: 13.084 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN035928.D
Acq: 15 Jan 2025 11:39

Tgt Ion:172 Resp: 1353
Ion Ratio Lower Upper
172 100
171 38.0 30.5 45.7
170 27.3 20.8 31.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.199 min Scan# 1

Delta R.T. -0.011 min

Lab File: BN035928.D

Acq: 15 Jan 2025 11:39

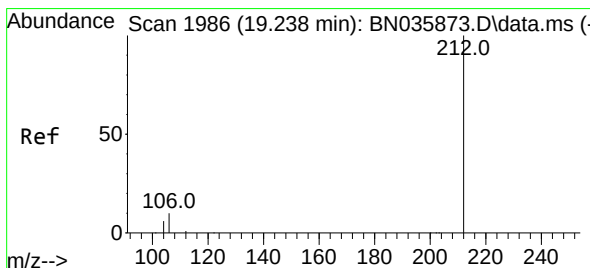
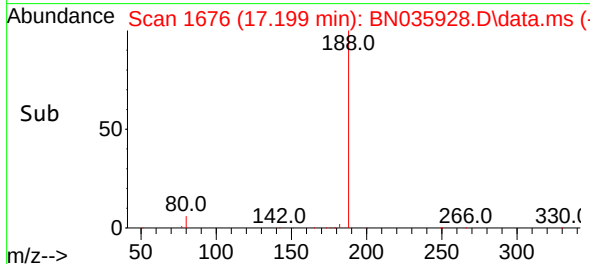
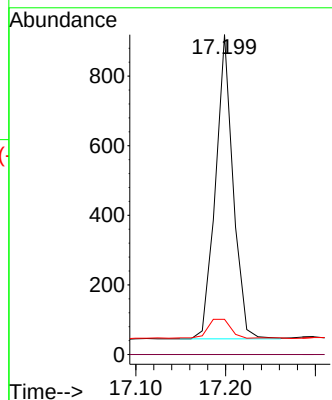
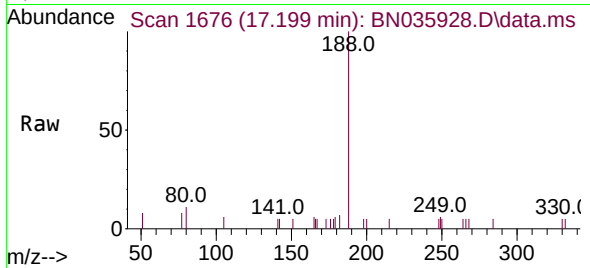
Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20250113

Tgt Ion:188	Resp:	1190
Ion	Ratio	Lower Upper
188	100	
94	0.0	0.0 0.0
80	11.0	7.3 10.9#



#27

Fluoranthene-d10

Concen: 0.536 ng

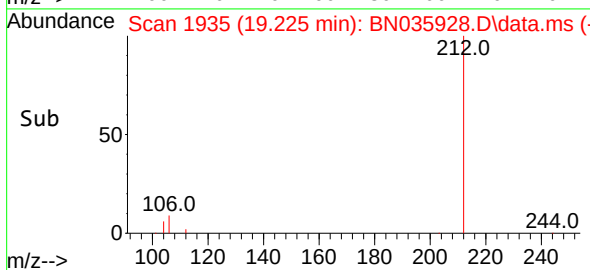
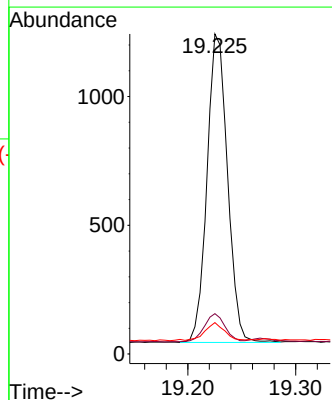
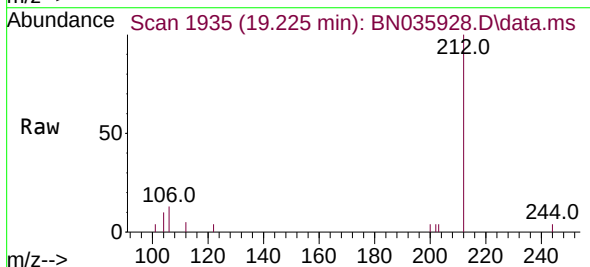
RT: 19.225 min Scan# 1935

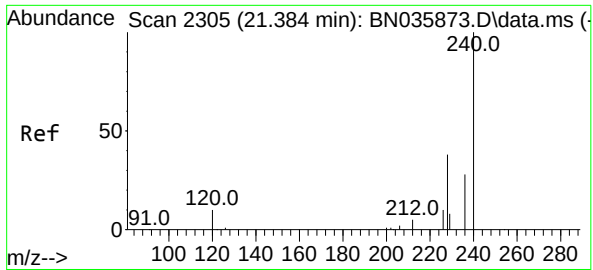
Delta R.T. -0.013 min

Lab File: BN035928.D

Acq: 15 Jan 2025 11:39

Tgt Ion:212	Resp:	1584
Ion	Ratio	Lower Upper
212	100	
106	9.4	9.0 13.6
104	5.7	5.4 8.2

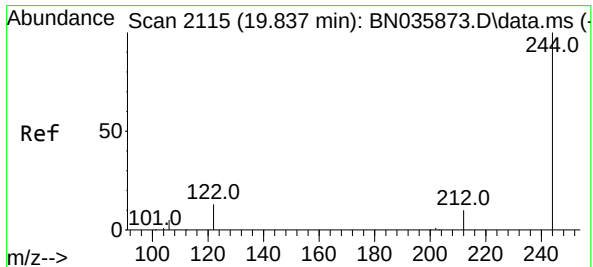
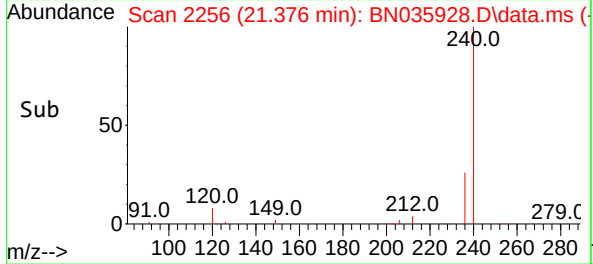
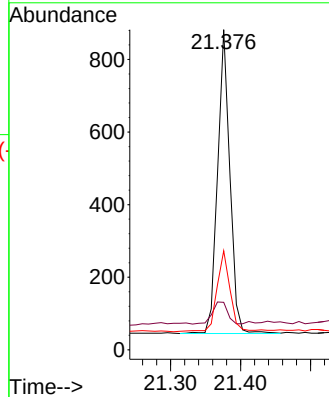
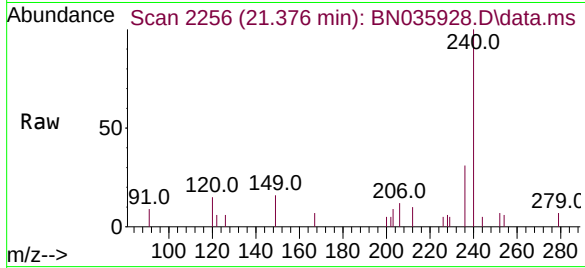




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.376 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035928.D
Acq: 15 Jan 2025 11:39

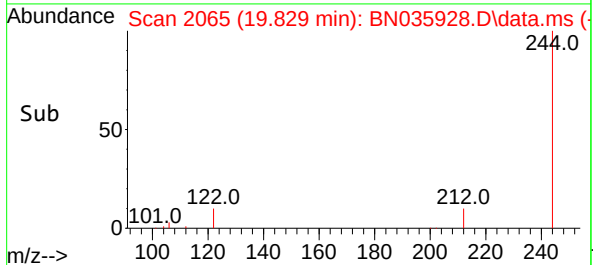
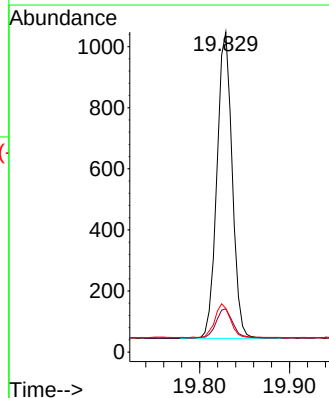
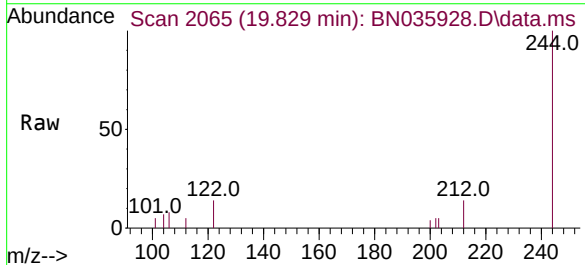
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113

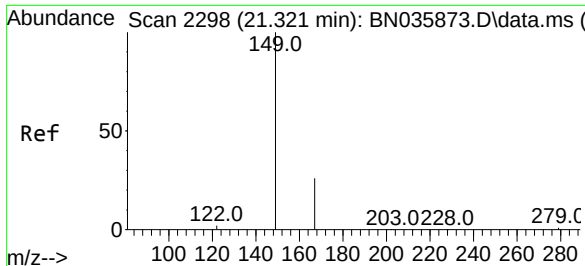
Tgt Ion:	240	Resp:	1015
Ion	Ratio	Lower	Upper
240	100		
120	14.9	11.1	16.7
236	31.0	24.6	36.8



#31
Terphenyl-d14
Concen: 0.580 ng
RT: 19.829 min Scan# 2065
Delta R.T. -0.008 min
Lab File: BN035928.D
Acq: 15 Jan 2025 11:39

Tgt Ion:	244	Resp:	1173
Ion	Ratio	Lower	Upper
244	100		
212	13.5	10.1	15.1
122	13.6	12.2	18.4

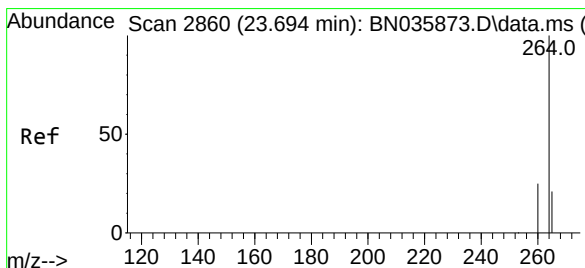
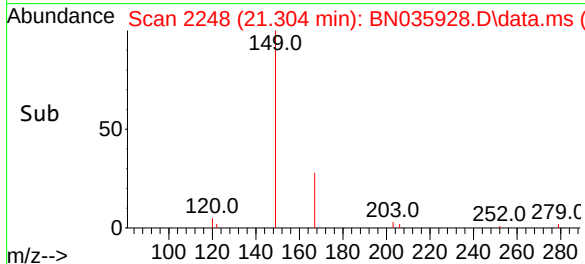
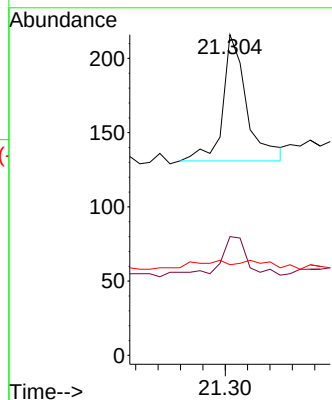
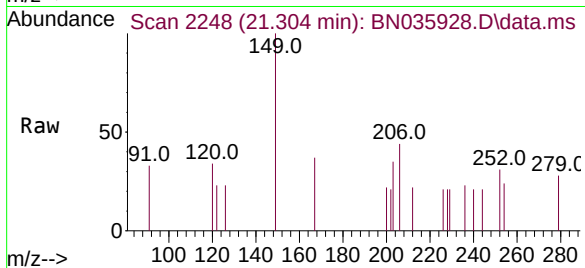




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.087 ng
RT: 21.304 min Scan# 21
Delta R.T. -0.017 min
Lab File: BN035928.D
Acq: 15 Jan 2025 11:39

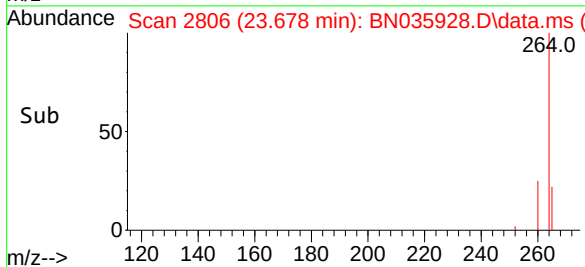
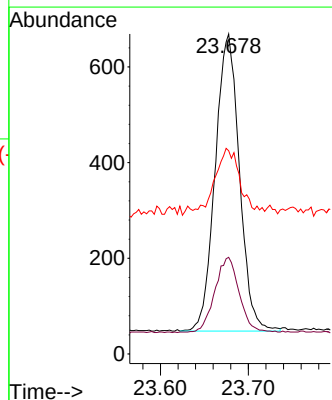
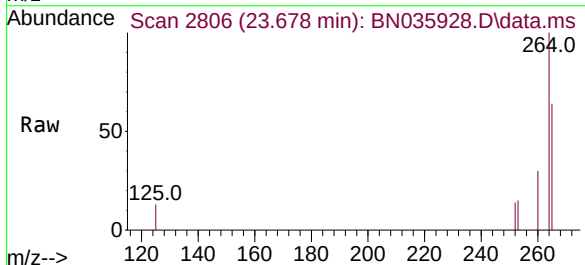
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113

Tgt Ion:149 Resp: 126
Ion Ratio Lower Upper
149 100
167 31.7 21.4 32.0
279 7.1 3.0 4.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.678 min Scan# 2806
Delta R.T. -0.016 min
Lab File: BN035928.D
Acq: 15 Jan 2025 11:39

Tgt Ion:264 Resp: 1185
Ion Ratio Lower Upper
264 100
260 30.2 21.7 32.5
265 63.5 33.9 50.9#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/13/25
Project:	RW7B - 112G08005-WE13	Date Received:	01/14/25
Client Sample ID:	RW7-SP100-20250113DL	SDG No.:	Q1081
Lab Sample ID:	Q1081-01DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035931.D	2	01/14/25 11:00	01/15/25 13:27	PB166053

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	4.60	D	0.14	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.45		30 - 150		113%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.52		30 - 150		131%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.49	*	55 - 111		122%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		106%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		138%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	697		7.831			
1146-65-2	Naphthalene-d8	1310		10.622			
15067-26-2	Acenaphthene-d10	702		14.463			
1517-22-2	Phenanthrene-d10	1450		17.198			
1719-03-5	Chrysene-d12	1310		21.376			
1520-96-3	Perylene-d12	1480		23.675			

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\BN011525\
Data File : BN035931.D
Acq On : 15 Jan 2025 13:27
Operator : RC/JU
Sample : Q1081-01DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113DL

Quant Time: Jan 15 13:51:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

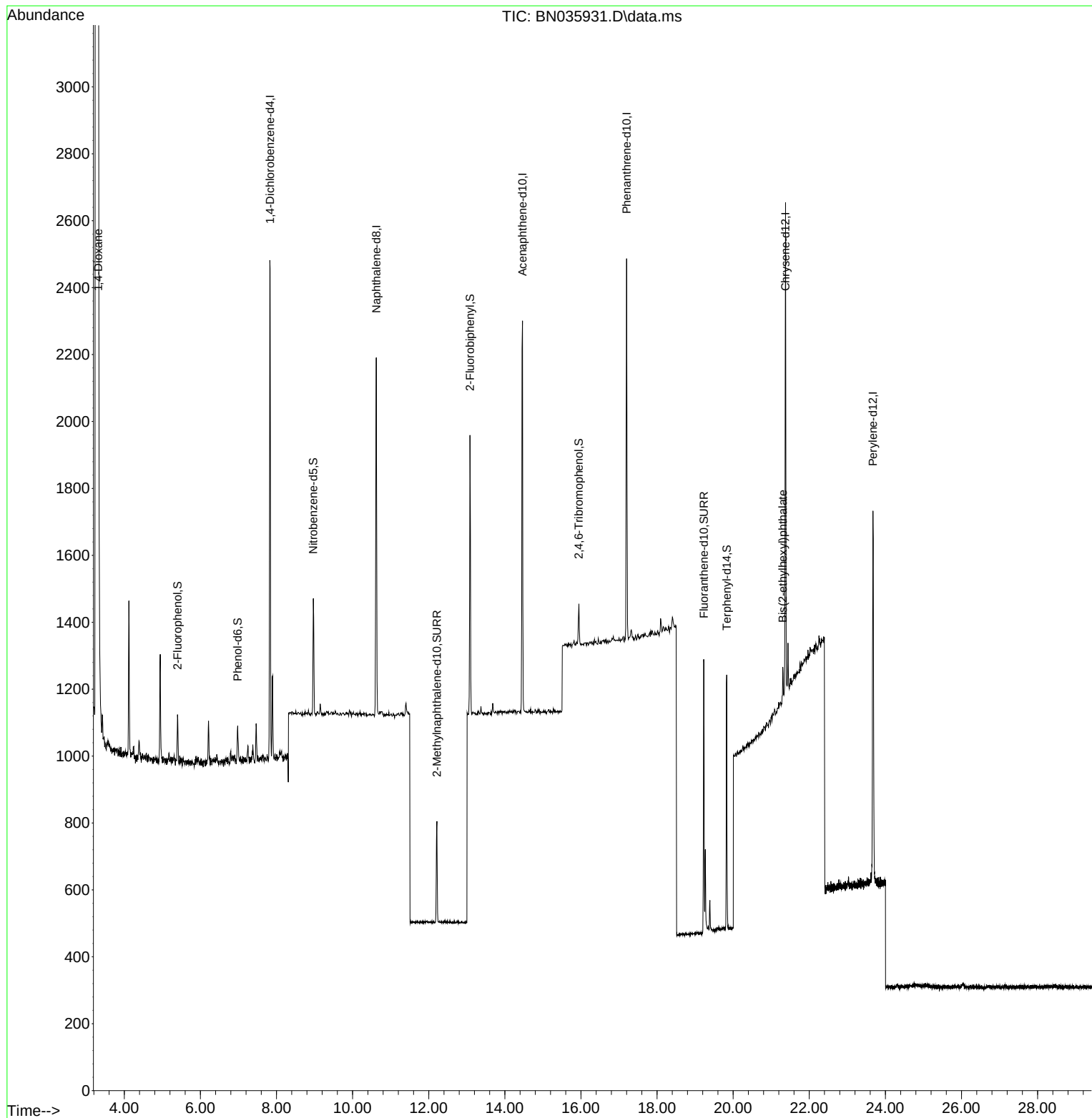
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.831	152	697	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1310	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	702	0.400	ng	0.00
19) Phenanthrene-d10	17.198	188	1447	0.400	ng	-0.01
29) Chrysene-d12	21.376	240	1312	0.400	ng	0.00
35) Perylene-d12	23.675	264	1477	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.398	112	107	0.063	ng	-0.01
5) Phenol-d6	6.979	99	84	0.040	ng	0.00
8) Nitrobenzene-d5	8.967	82	253	0.244	ng	-0.01
11) 2-Methylnaphthalene-d10	12.213	152	397	0.226	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	74	0.220	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	654	0.212	ng	0.00
27) Fluoranthene-d10	19.230	212	938	0.261	ng	0.00
31) Terphenyl-d14	19.829	244	721	0.276	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.318	88	1592	2.300	ng	# 91
34) Bis(2-ethylhexyl)phtha...	21.304	149	98	0.052	ng	92

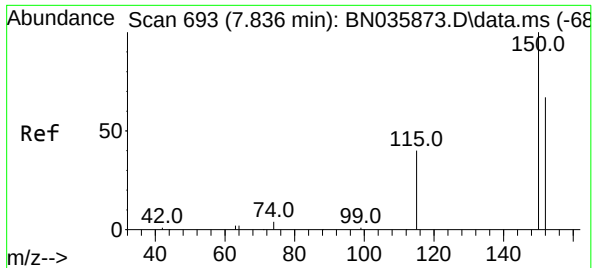
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035931.D
Acq On : 15 Jan 2025 13:27
Operator : RC/JU
Sample : Q1081-01DL 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113DL

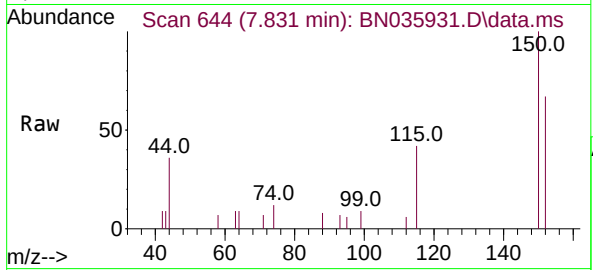
Quant Time: Jan 15 13:51:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration



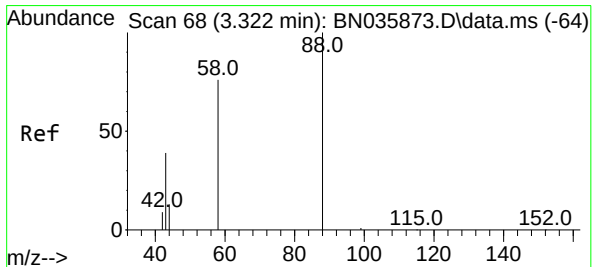
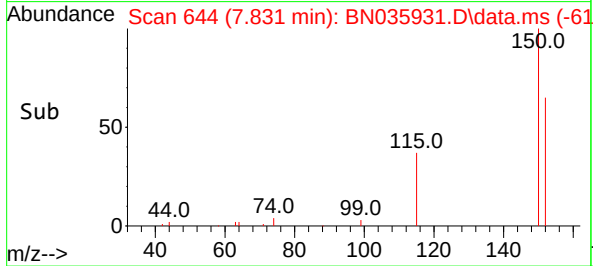
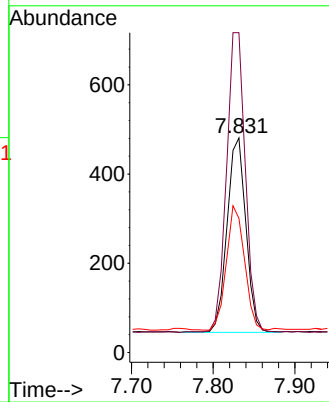


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.831 min Scan# 64
Delta R.T. -0.005 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113DL

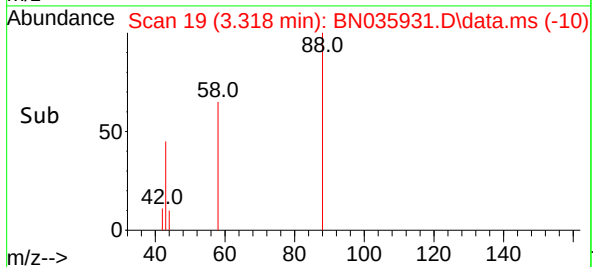
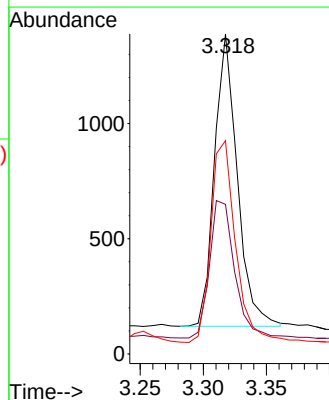
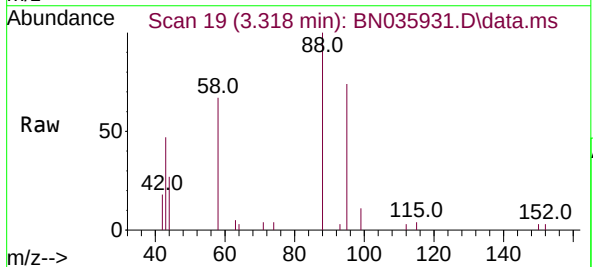


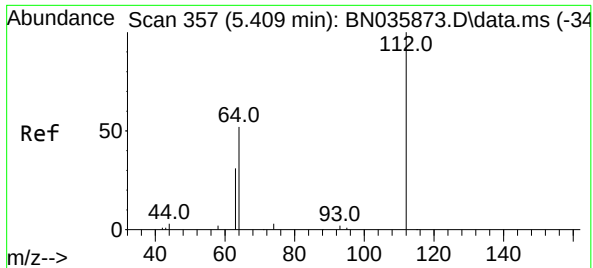
Tgt Ion:152 Resp: 697
Ion Ratio Lower Upper
152 100
150 149.1 117.8 176.6
115 62.6 51.0 76.4



#2
1,4-Dioxane
Concen: 2.300 ng
RT: 3.318 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

Tgt Ion: 88 Resp: 1592
Ion Ratio Lower Upper
88 100
43 51.8 32.7 49.1#
58 74.7 63.0 94.4

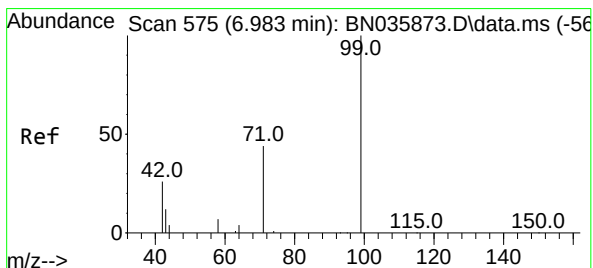
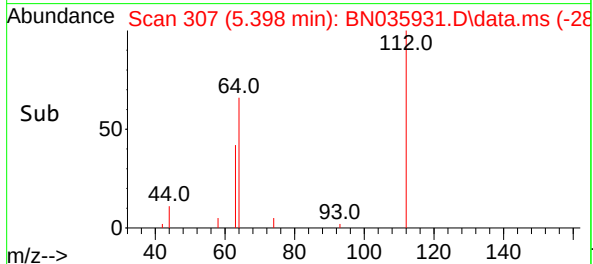
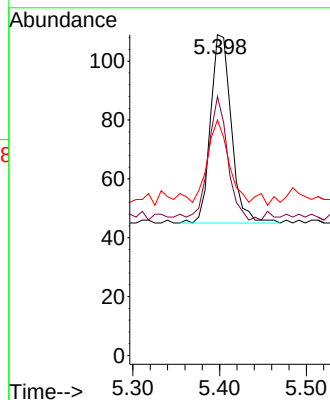
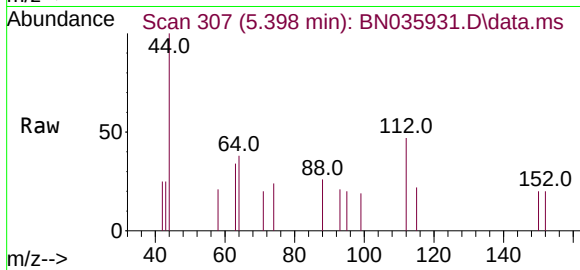




#4
2-Fluorophenol
Concen: 0.063 ng
RT: 5.398 min Scan# 307
Delta R.T. -0.011 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

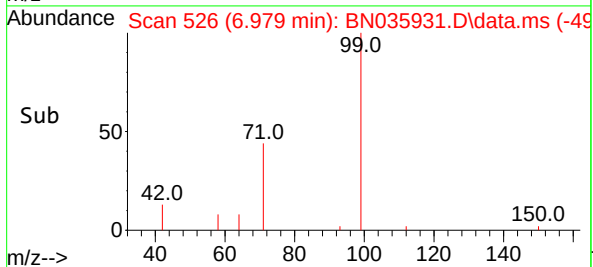
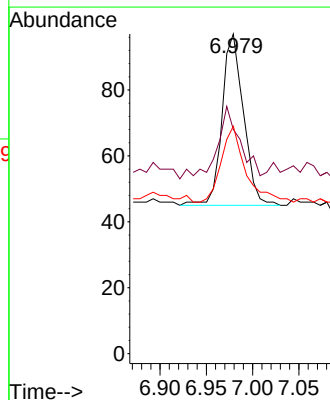
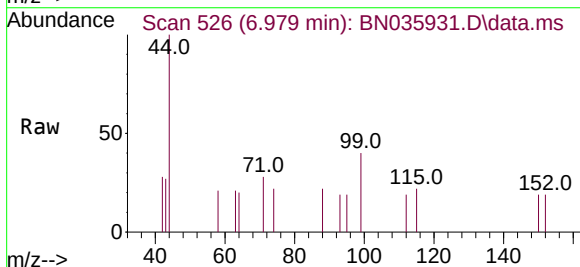
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113DL

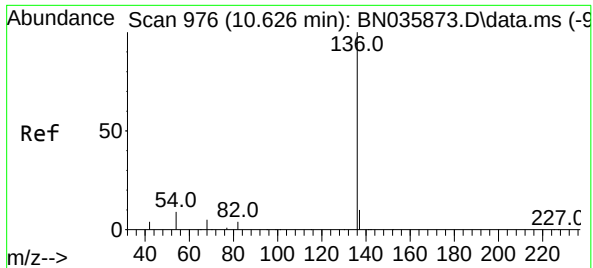
Tgt Ion:	112	Resp:	107
Ion	Ratio	Lower	Upper
112	100		
64	61.7	48.2	72.2
63	43.0	30.0	45.0



#5
Phenol-d6
Concen: 0.040 ng
RT: 6.979 min Scan# 526
Delta R.T. -0.004 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

Tgt Ion:	99	Resp:	84
Ion	Ratio	Lower	Upper
99	100		
42	46.4	23.5	35.3#
71	50.0	35.5	53.3

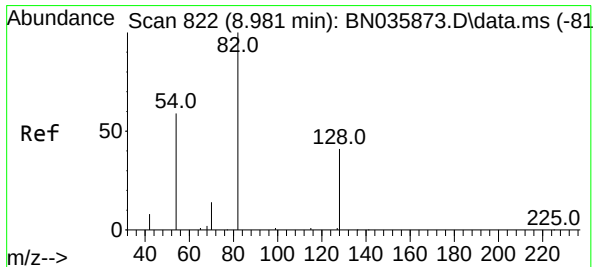
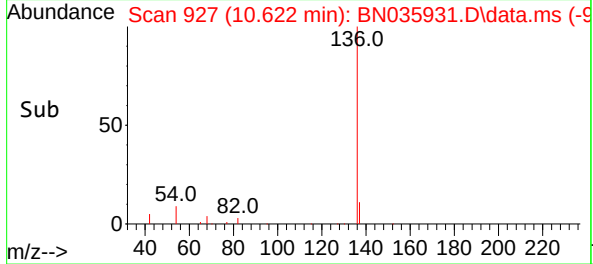
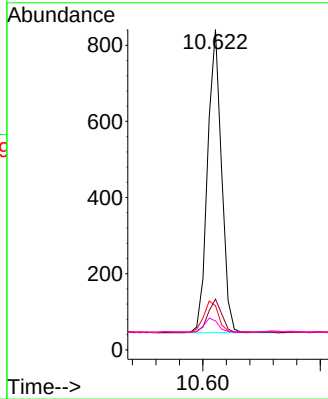
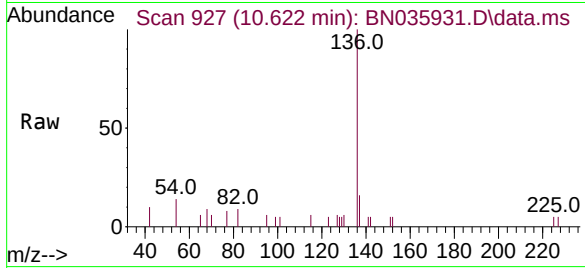




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

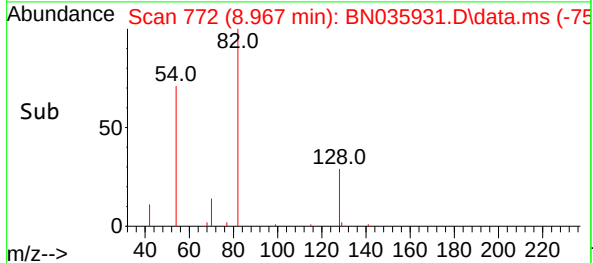
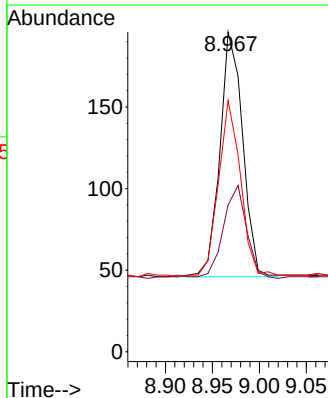
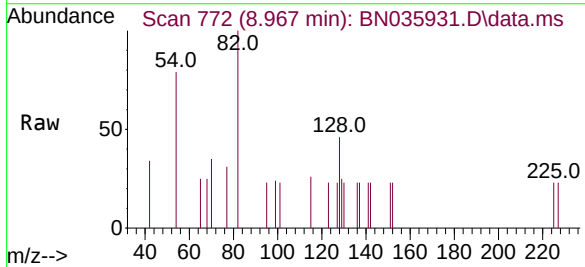
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113DL

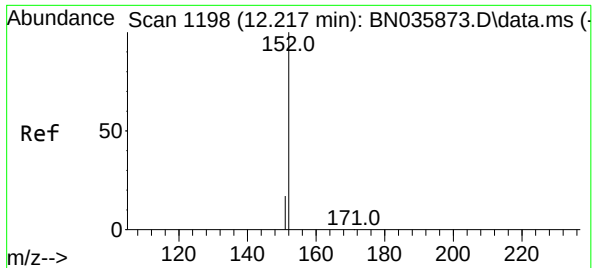
Tgt Ion:	136	Resp:	1310
Ion	Ratio	Lower	Upper
136	100		
137	15.8	10.6	15.8
54	13.8	9.8	14.6
68	9.0	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.244 ng
RT: 8.967 min Scan# 772
Delta R.T. -0.015 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

Tgt Ion:	82	Resp:	253
Ion	Ratio	Lower	Upper
82	100		
128	45.9	36.9	55.3
54	78.6	50.4	75.6

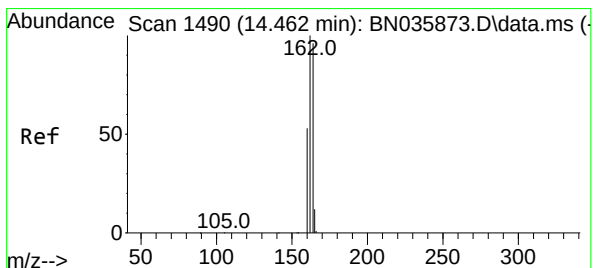
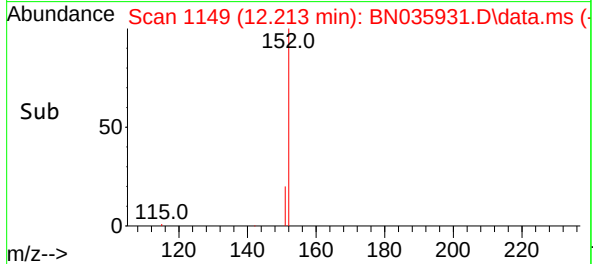
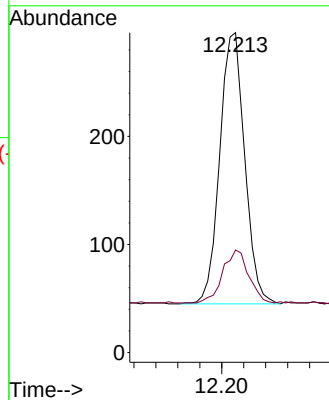
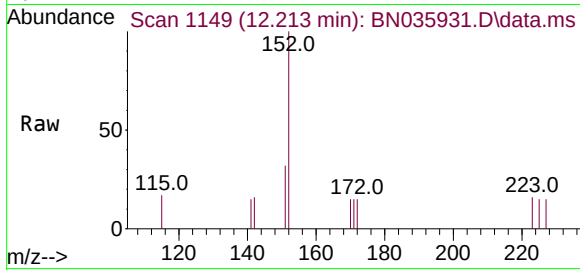




#11
2-Methylnaphthalene-d10
Concen: 0.226 ng
RT: 12.213 min Scan# 1198
Delta R.T. -0.004 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

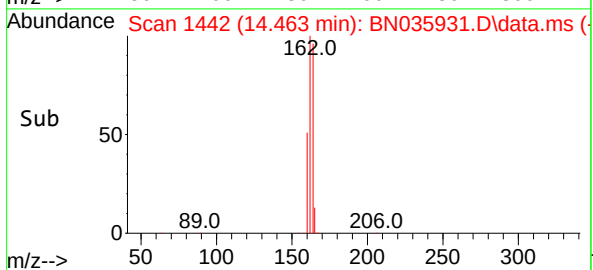
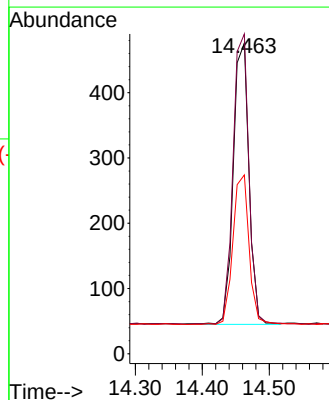
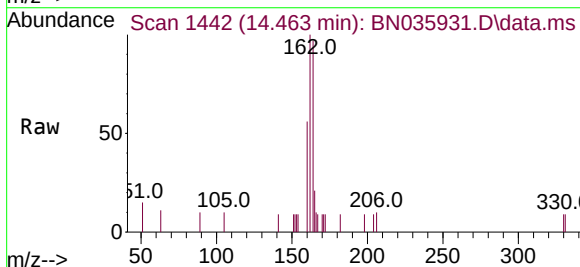
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113DL

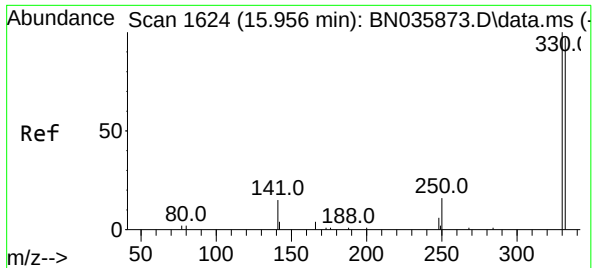
Tgt Ion:152 Resp: 397
Ion Ratio Lower Upper
152 100
151 19.9 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 1442
Delta R.T. 0.001 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

Tgt Ion:164 Resp: 702
Ion Ratio Lower Upper
164 100
162 102.9 83.1 124.7
160 57.6 46.0 69.0

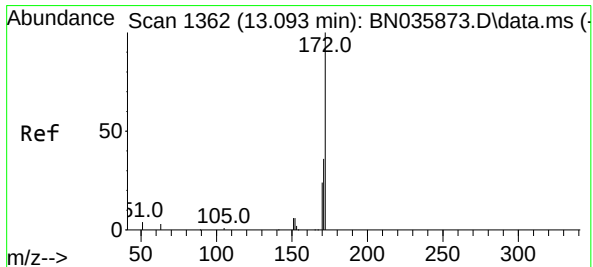
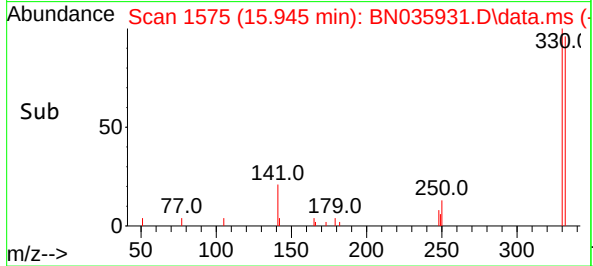
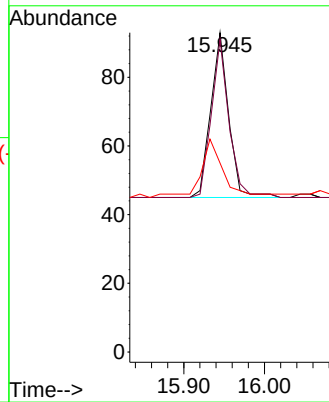
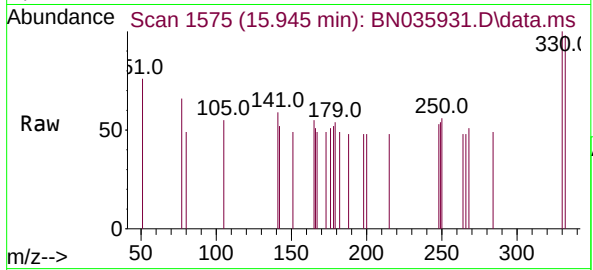




#14
2,4,6-Tribromophenol
Concen: 0.220 ng
RT: 15.945 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

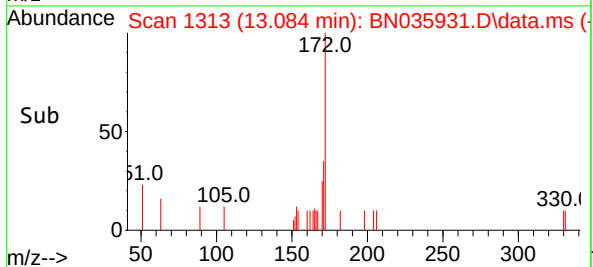
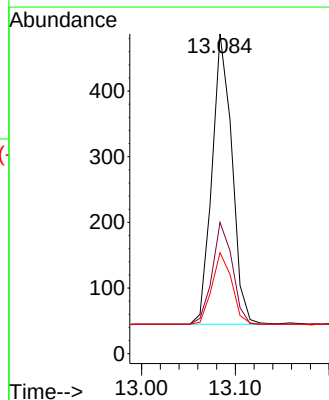
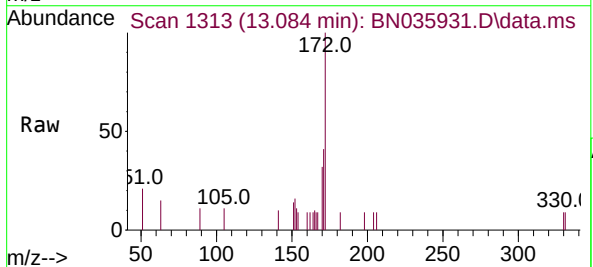
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113DL

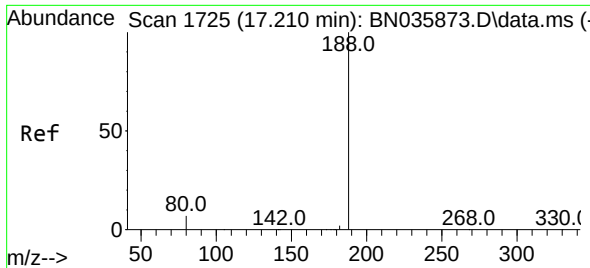
Tgt Ion:330 Resp: 74
Ion Ratio Lower Upper
330 100
332 94.6 77.2 115.8
141 48.6 31.6 47.4#



#15
2-Fluorobiphenyl
Concen: 0.212 ng
RT: 13.084 min Scan# 1313
Delta R.T. -0.010 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

Tgt Ion:172 Resp: 654
Ion Ratio Lower Upper
172 100
171 41.1 30.5 45.7
170 31.6 20.8 31.2#

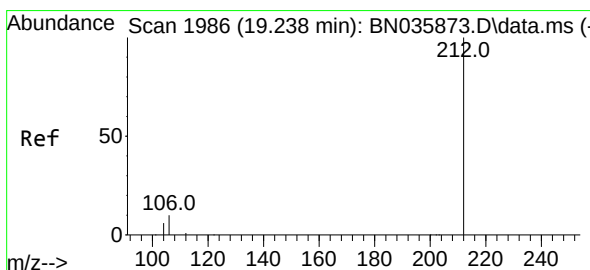
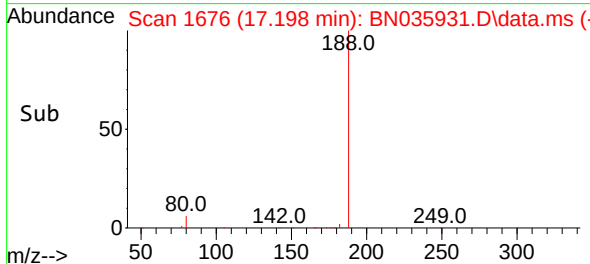
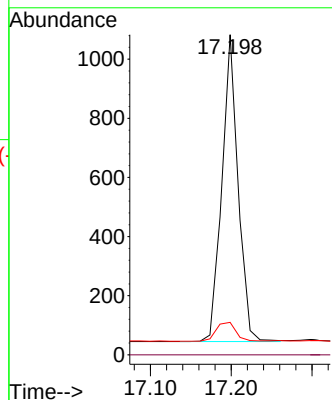
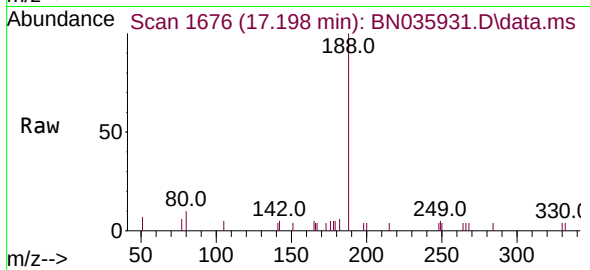




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.198 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

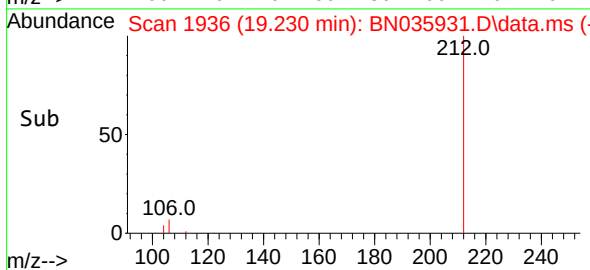
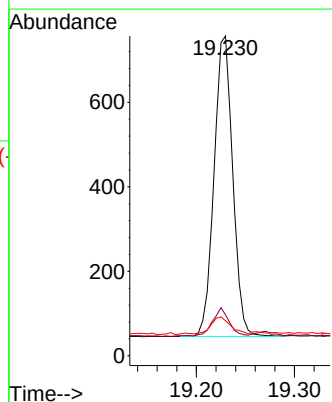
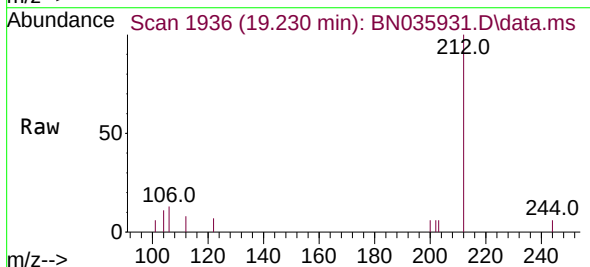
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113DL

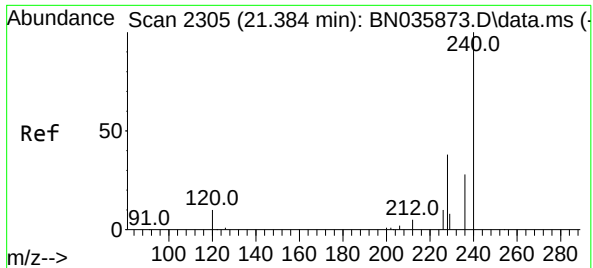
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.2	7.3	10.9



#27
Fluoranthene-d10
Concen: 0.261 ng
RT: 19.230 min Scan# 1936
Delta R.T. -0.008 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

Tgt Ion	Ratio	Lower	Upper
212	100		
106	8.7	9.0	13.6#
104	5.7	5.4	8.2

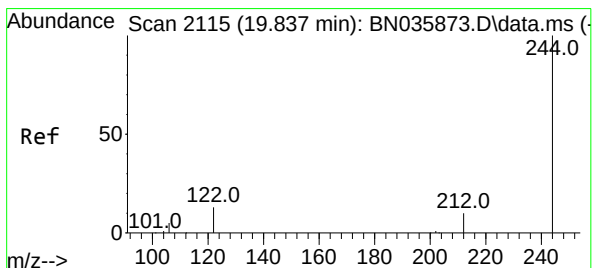
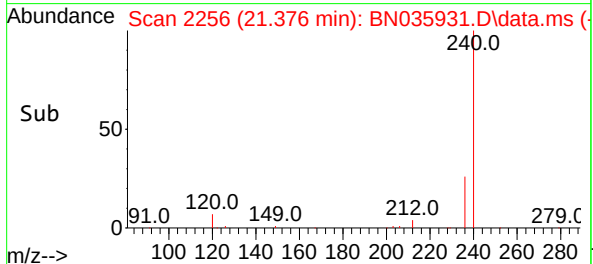
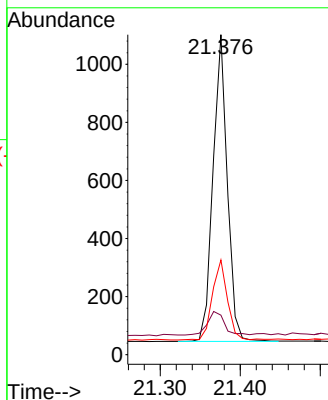
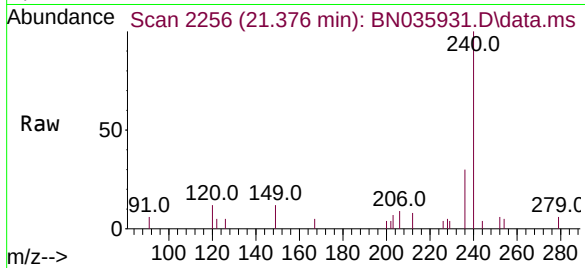




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.376 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

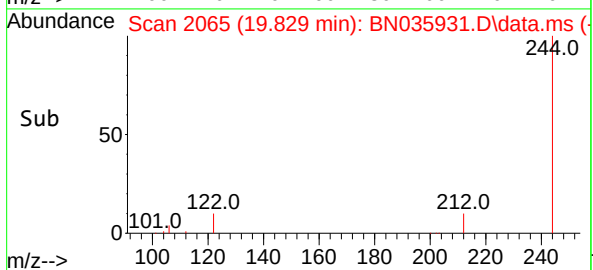
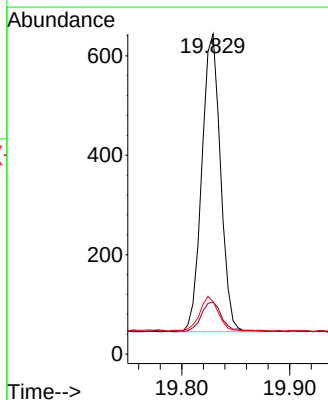
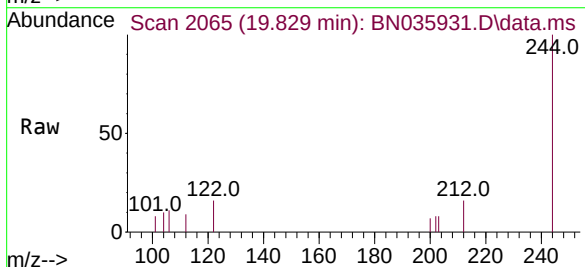
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113DL

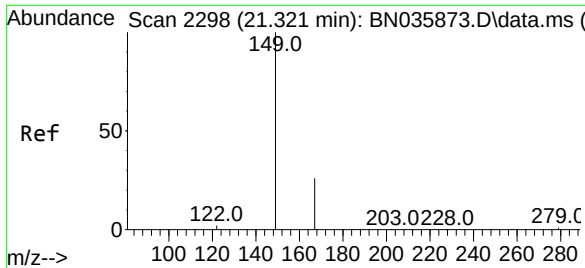
Tgt Ion:240 Resp: 1312
Ion Ratio Lower Upper
240 100
120 12.3 11.1 16.7
236 29.6 24.6 36.8



#31
Terphenyl-d14
Concen: 0.276 ng
RT: 19.829 min Scan# 2065
Delta R.T. -0.008 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

Tgt Ion:244 Resp: 721
Ion Ratio Lower Upper
244 100
212 16.3 10.1 15.1#
122 16.5 12.2 18.4

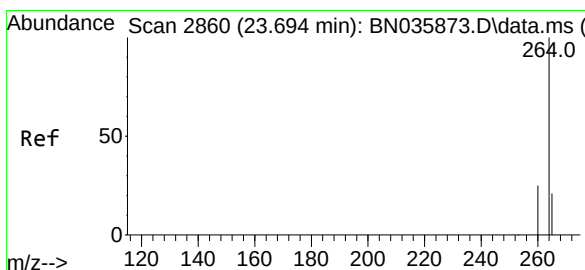
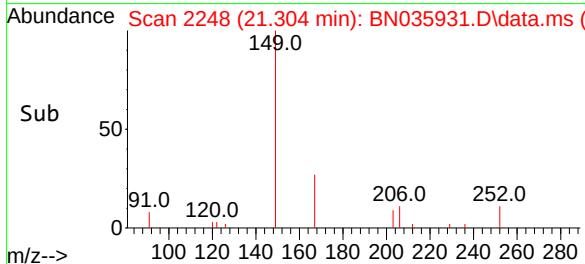
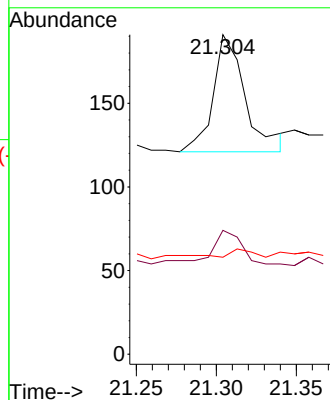
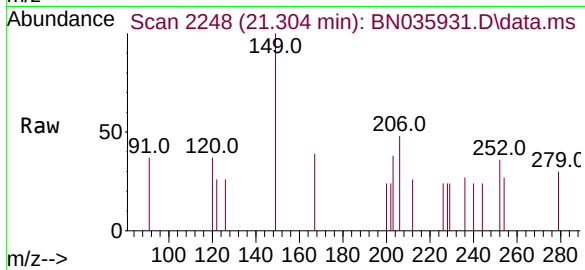




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.052 ng
RT: 21.304 min Scan# 21
Delta R.T. -0.017 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

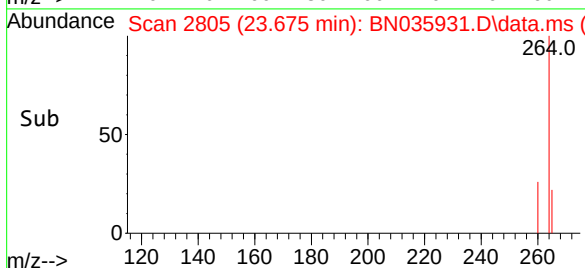
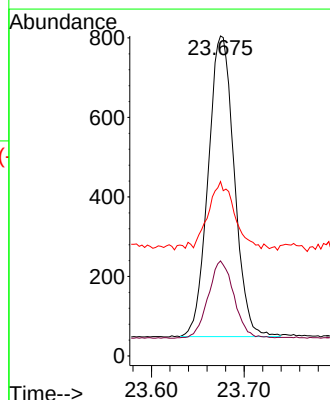
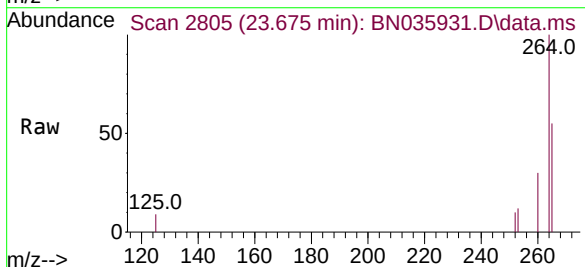
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20250113DL

Tgt Ion:149 Resp: 98
Ion Ratio Lower Upper
149 100
167 31.6 21.4 32.0
279 4.1 3.0 4.6



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.675 min Scan# 2805
Delta R.T. -0.019 min
Lab File: BN035931.D
Acq: 15 Jan 2025 13:27

Tgt Ion:264 Resp: 1477
Ion Ratio Lower Upper
264 100
260 29.7 21.7 32.5
265 54.5 33.9 50.9#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/13/25
Project:	RW7B - 112G08005-WE13	Date Received:	01/14/25
Client Sample ID:	RW7-SP201-20250113	SDG No.:	Q1081
Lab Sample ID:	Q1081-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035929.D	1	01/14/25 11:00	01/15/25 12:15	PB166053

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	0.44		30 - 150		110%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.52		30 - 150		131%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.46	*	55 - 111		114%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		108%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		135%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	707		7.832			
1146-65-2	Naphthalene-d8	1340		10.622			
15067-26-2	Acenaphthene-d10	689		14.458			
1517-22-2	Phenanthrene-d10	1430		17.194			
1719-03-5	Chrysene-d12	1320		21.376			
1520-96-3	Perylene-d12	1480		23.674			

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\BN011525\
Data File : BN035929.D
Acq On : 15 Jan 2025 12:15
Operator : RC/JU
Sample : Q1081-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250113

Quant Time: Jan 15 12:39:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

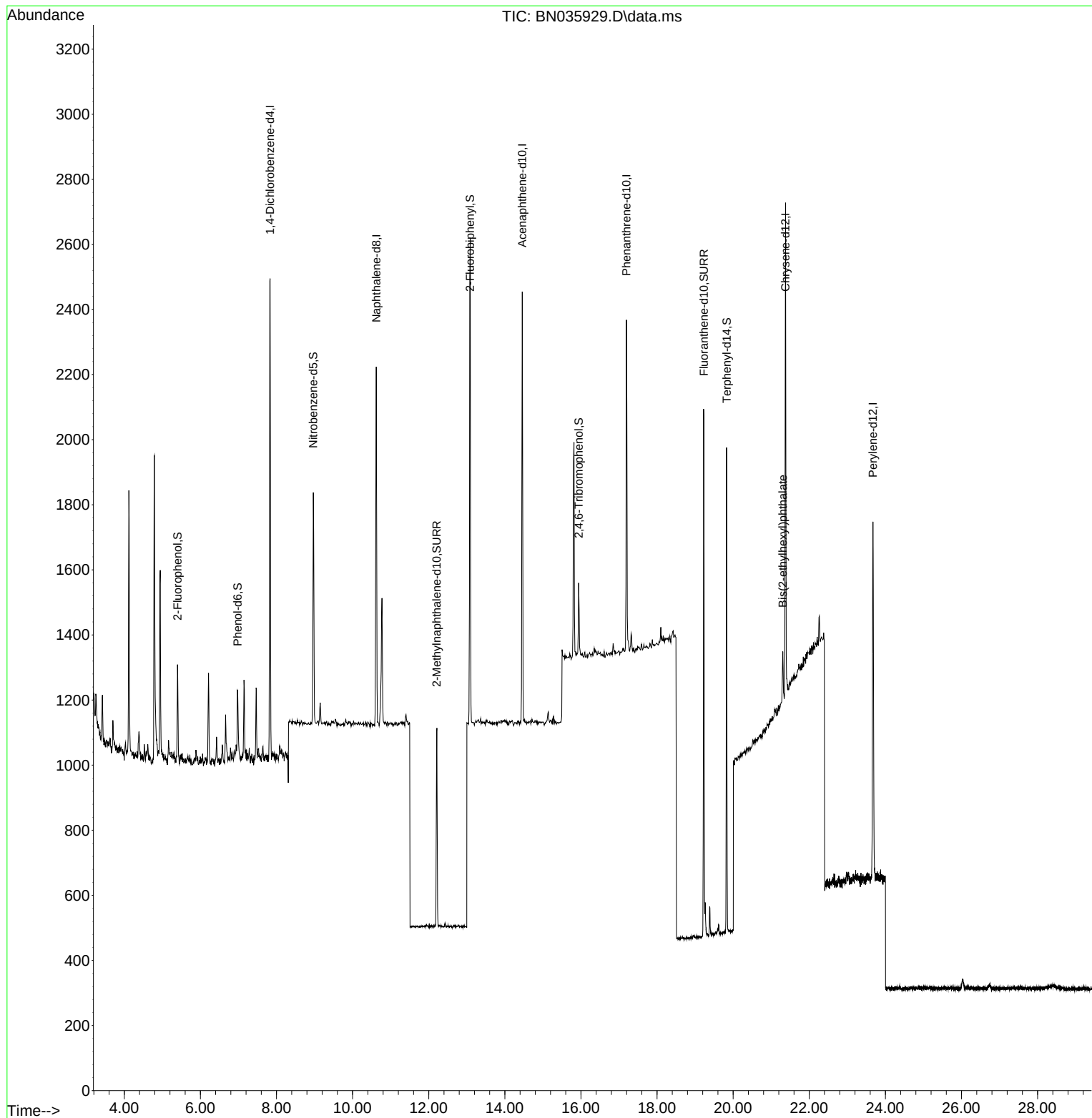
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	707	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1337	0.400	ng	# 0.00
13) Acenaphthene-d10	14.458	164	689	0.400	ng	0.00
19) Phenanthrene-d10	17.194	188	1430	0.400	ng	#-0.02
29) Chrysene-d12	21.376	240	1321	0.400	ng	0.00
35) Perylene-d12	23.674	264	1476	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.398	112	219	0.126	ng	-0.01
5) Phenol-d6	6.979	99	152	0.071	ng	0.00
8) Nitrobenzene-d5	8.967	82	484	0.457	ng	-0.01
11) 2-Methylnaphthalene-d10	12.208	152	788	0.440	ng	0.00
14) 2,4,6-Tribromophenol	15.940	330	137	0.414	ng	-0.02
15) 2-Fluorobiphenyl	13.090	172	1300	0.430	ng	0.00
27) Fluoranthene-d10	19.229	212	1856	0.523	ng	0.00
31) Terphenyl-d14	19.829	244	1420	0.539	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.304	149	151	0.080	ng	# 93

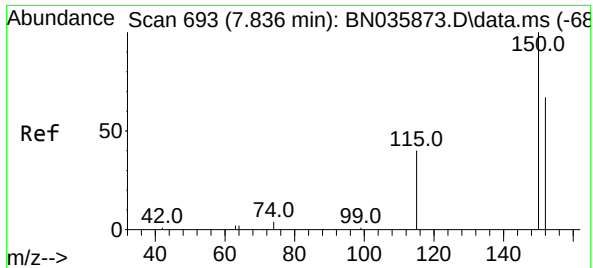
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035929.D
Acq On : 15 Jan 2025 12:15
Operator : RC/JU
Sample : Q1081-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250113

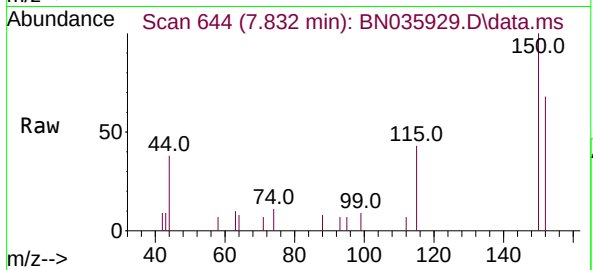
Quant Time: Jan 15 12:39:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration



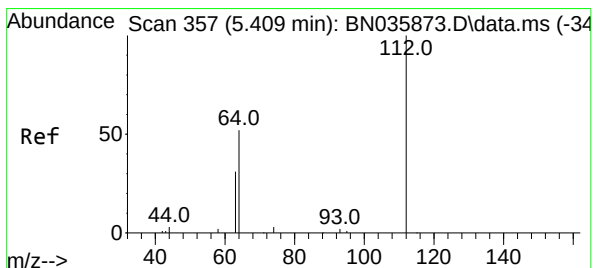
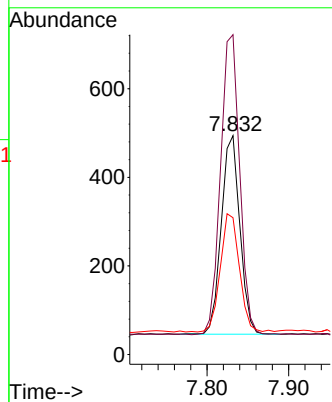
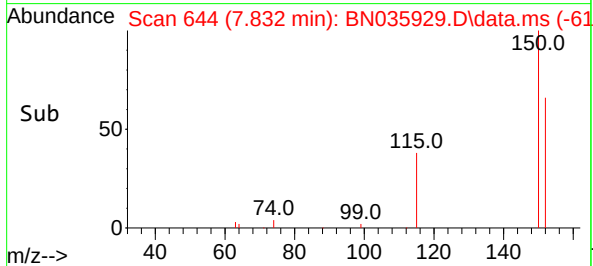


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035929.D
Acq: 15 Jan 2025 12:15

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250113

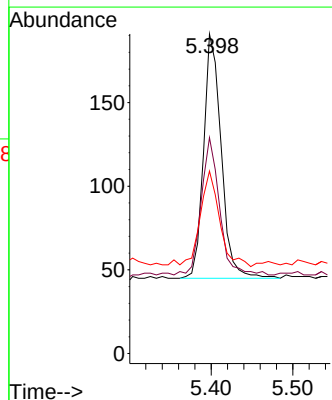
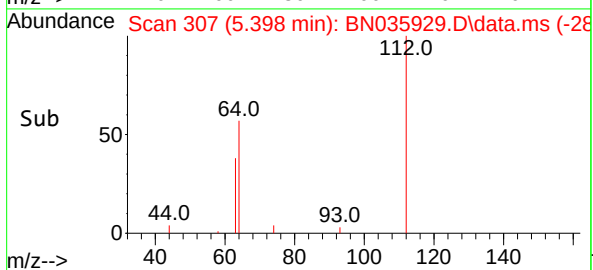
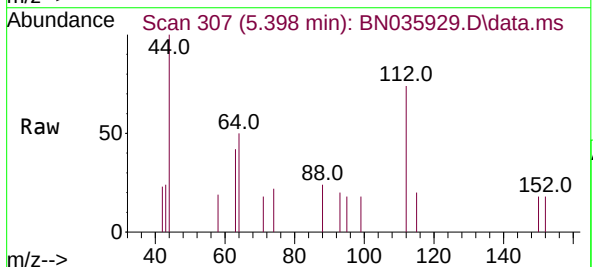


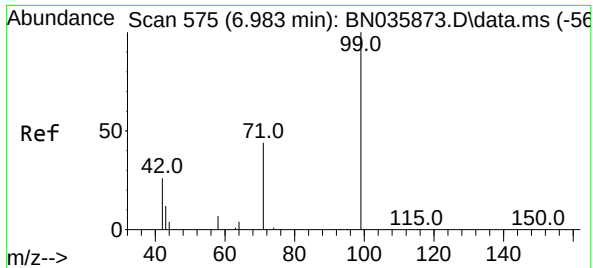
Tgt Ion:152 Resp: 707
Ion Ratio Lower Upper
152 100
150 146.2 117.8 176.6
115 62.6 51.0 76.4



#4
2-Fluorophenol
Concen: 0.126 ng
RT: 5.398 min Scan# 307
Delta R.T. -0.011 min
Lab File: BN035929.D
Acq: 15 Jan 2025 12:15

Tgt Ion:112 Resp: 219
Ion Ratio Lower Upper
112 100
64 58.0 48.2 72.2
63 44.7 30.0 45.0

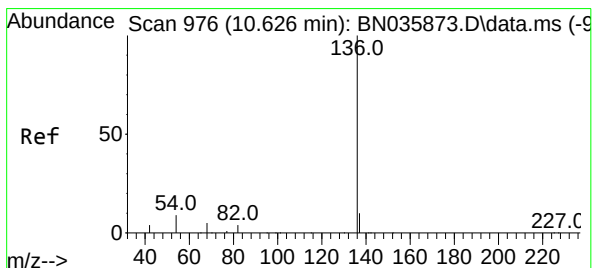
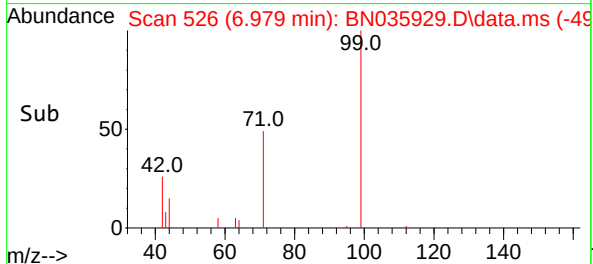
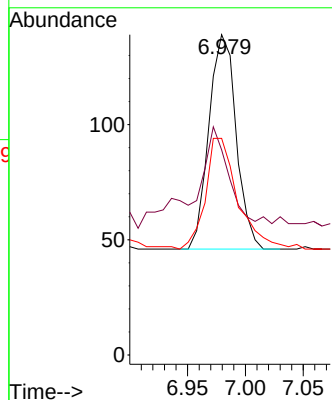
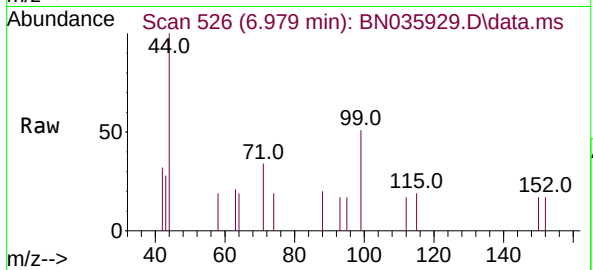




#5
Phenol-d6
Concen: 0.071 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035929.D
Acq: 15 Jan 2025 12:15

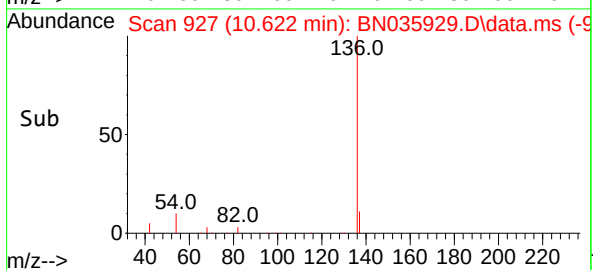
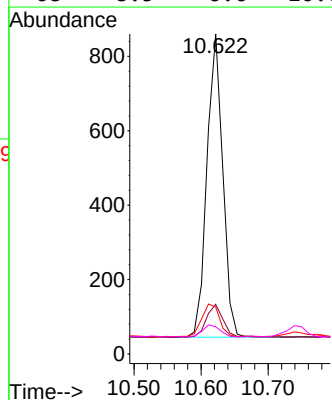
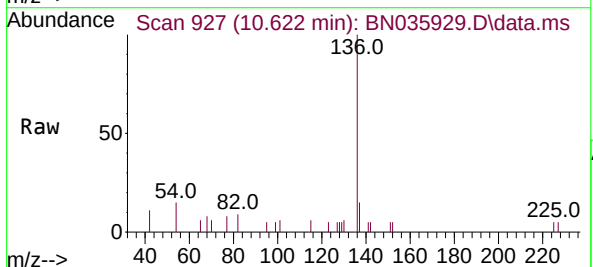
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250113

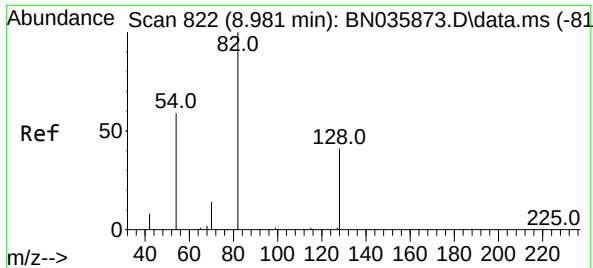
Tgt Ion	Ratio	Lower	Upper
99	100		
42	60.5	23.5	35.3#
71	61.8	35.5	53.3#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 927
Delta R.T. -0.004 min
Lab File: BN035929.D
Acq: 15 Jan 2025 12:15

Tgt Ion	Ratio	Lower	Upper
136	100		
137	15.5	10.6	15.8
54	14.7	9.8	14.6#
68	8.5	6.6	10.0

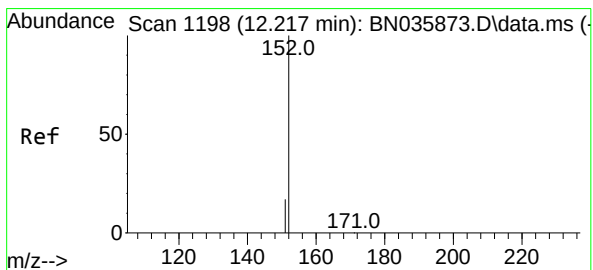
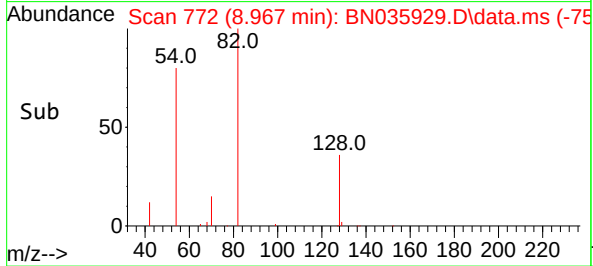
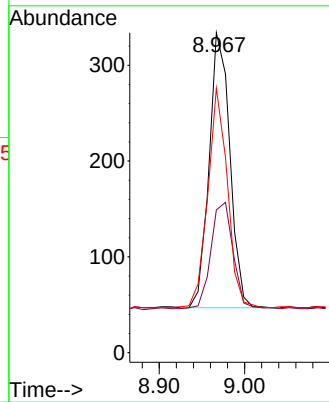
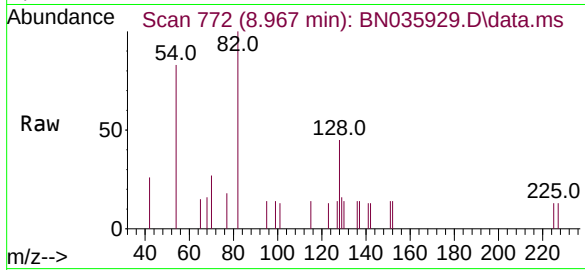




#8
Nitrobenzene-d5
Concen: 0.457 ng
RT: 8.967 min Scan# 71
Delta R.T. -0.014 min
Lab File: BN035929.D
Acq: 15 Jan 2025 12:15

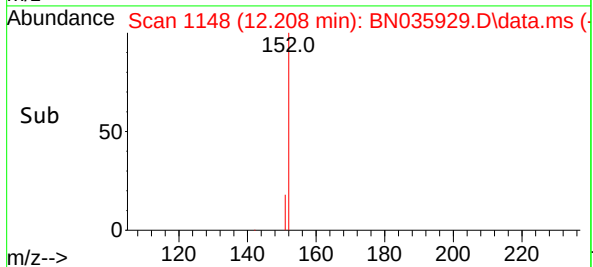
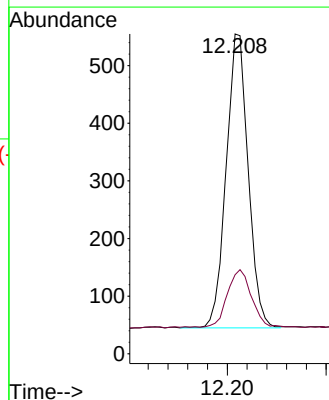
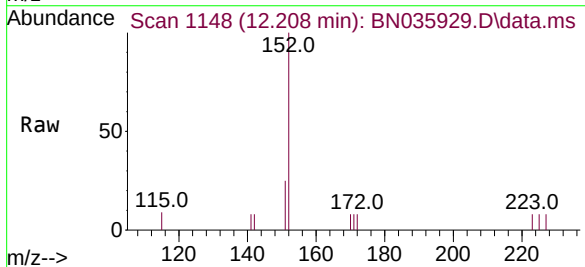
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250113

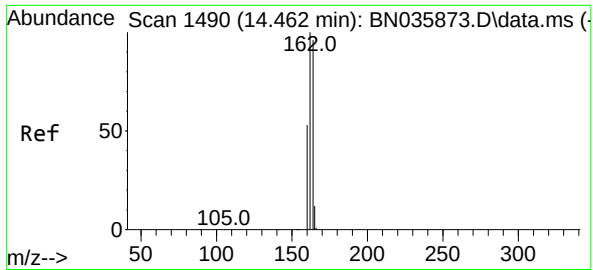
Tgt Ion: 82 Resp: 484
Ion Ratio Lower Upper
82 100
128 44.6 36.9 55.3
54 82.6 50.4 75.6#



#11
2-Methylnaphthalene-d10
Concen: 0.440 ng
RT: 12.208 min Scan# 1148
Delta R.T. -0.009 min
Lab File: BN035929.D
Acq: 15 Jan 2025 12:15

Tgt Ion: 152 Resp: 788
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6

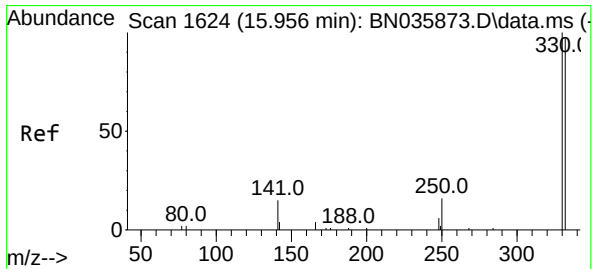
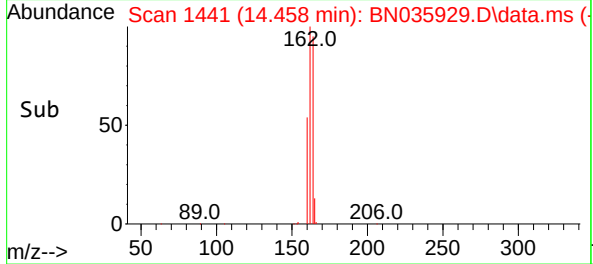
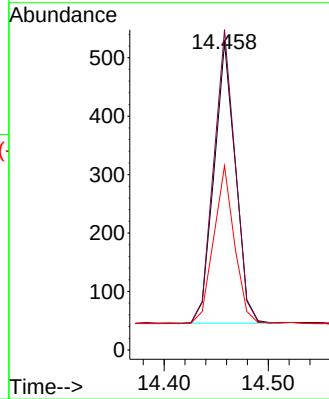
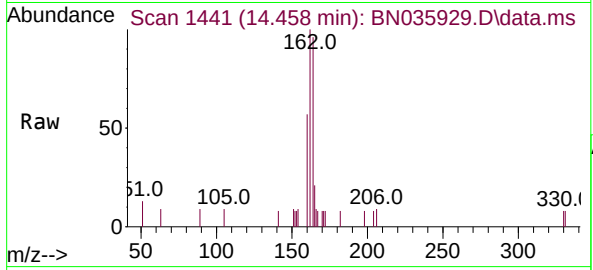




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.458 min Scan# 14
Delta R.T. -0.004 min
Lab File: BN035929.D
Acq: 15 Jan 2025 12:15

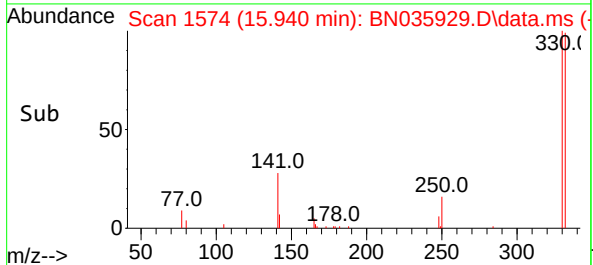
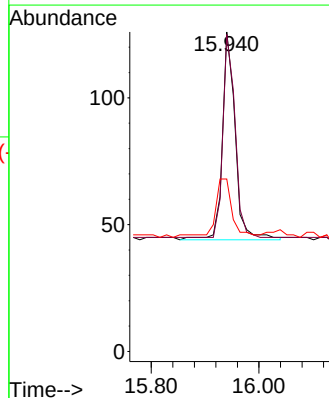
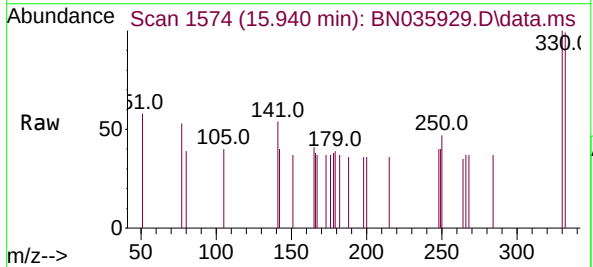
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250113

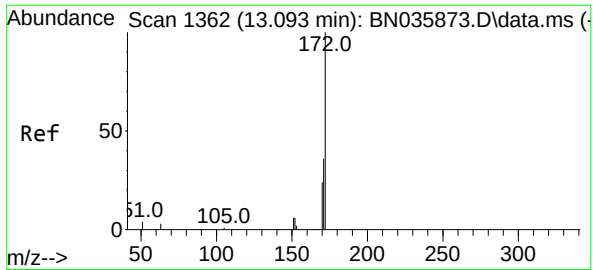
Tgt Ion:164 Resp: 689
Ion Ratio Lower Upper
164 100
162 104.2 83.1 124.7
160 59.9 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 0.414 ng
RT: 15.940 min Scan# 1574
Delta R.T. -0.016 min
Lab File: BN035929.D
Acq: 15 Jan 2025 12:15

Tgt Ion:330 Resp: 137
Ion Ratio Lower Upper
330 100
332 90.5 77.2 115.8
141 35.0 31.6 47.4

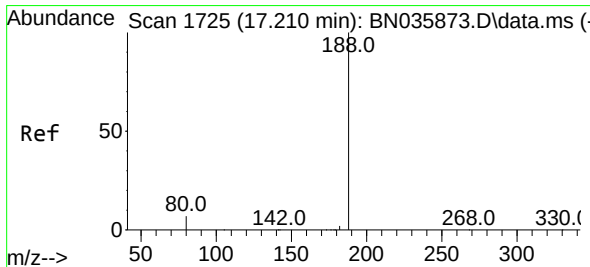
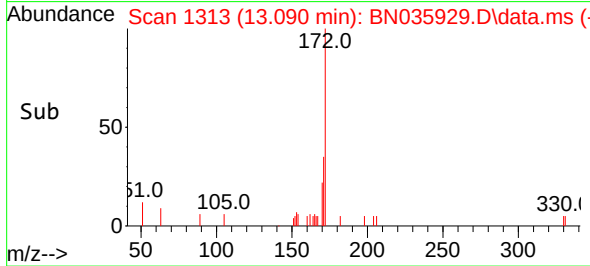
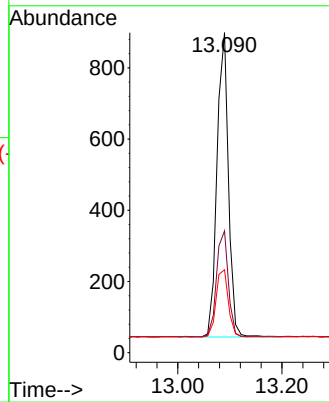
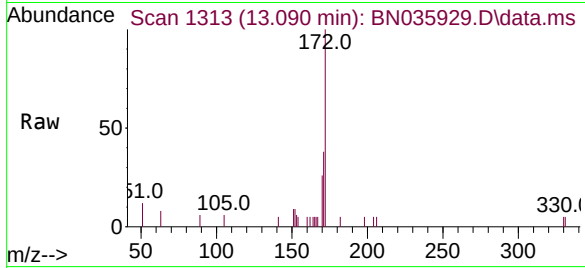




#15
2-Fluorobiphenyl
Concen: 0.430 ng
RT: 13.090 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN035929.D
Acq: 15 Jan 2025 12:15

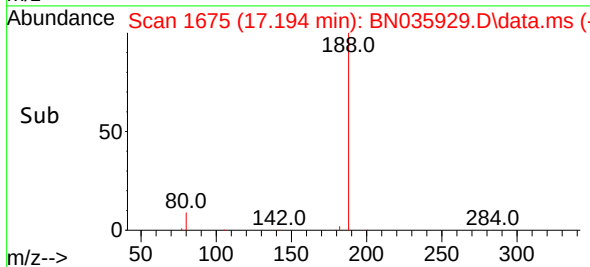
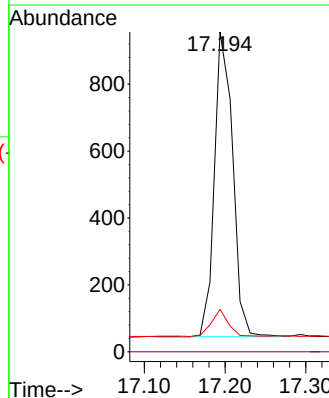
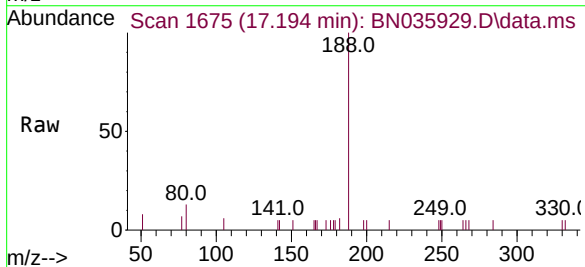
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250113

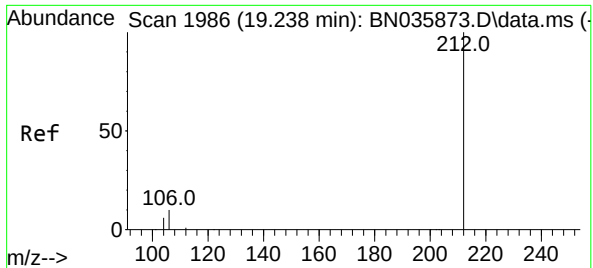
Tgt Ion:	172	Resp:	1300
Ion Ratio	Lower	Upper	
172	100		
171	38.0	30.5	45.7
170	25.9	20.8	31.2



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.194 min Scan# 1675
Delta R.T. -0.016 min
Lab File: BN035929.D
Acq: 15 Jan 2025 12:15

Tgt Ion:	188	Resp:	1430
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.3	7.3	10.9

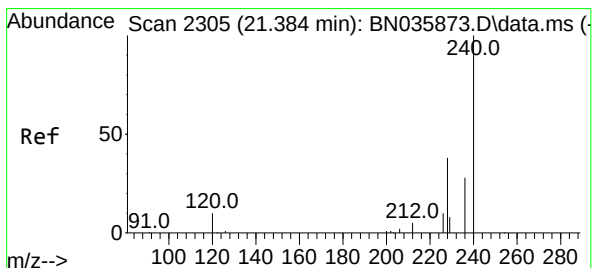
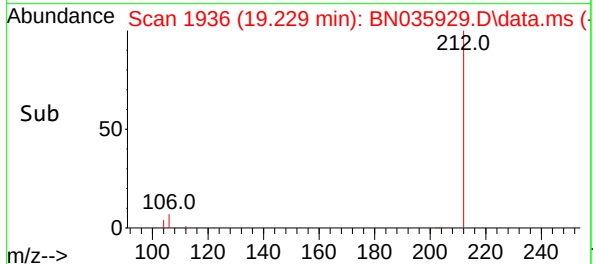
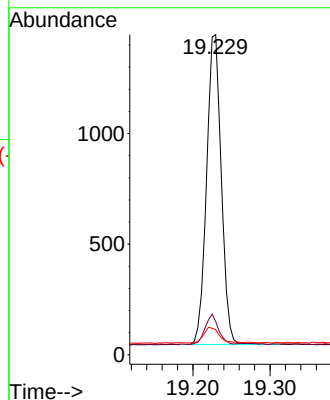
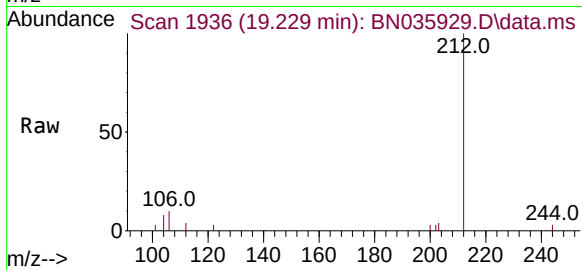




#27
Fluoranthene-d10
Concen: 0.523 ng
RT: 19.229 min Scan# 1986
Delta R.T. -0.008 min
Lab File: BN035929.D
Acq: 15 Jan 2025 12:15

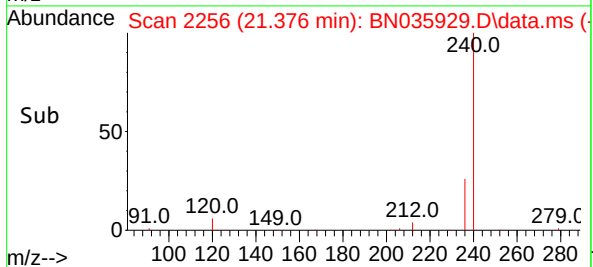
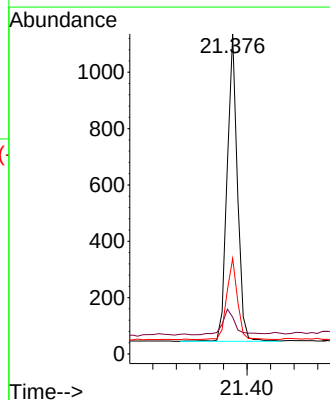
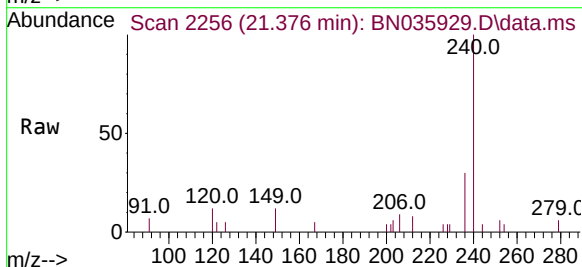
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20250113

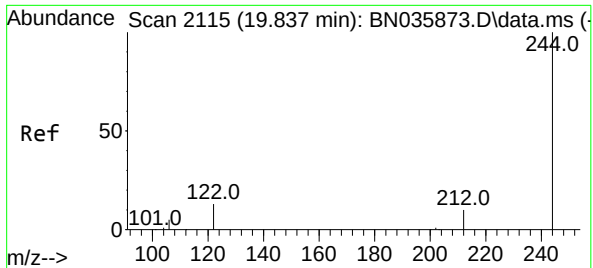
Tgt Ion	Ratio	Lower	Upper
212	100		
106	8.7	9.0	13.6#
104	5.4	5.4	8.2#



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.376 min Scan# 2256
Delta R.T. -0.008 min
Lab File: BN035929.D
Acq: 15 Jan 2025 12:15

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.5	11.1	16.7
236	29.8	24.6	36.8

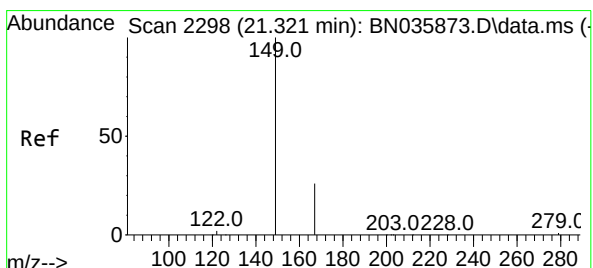
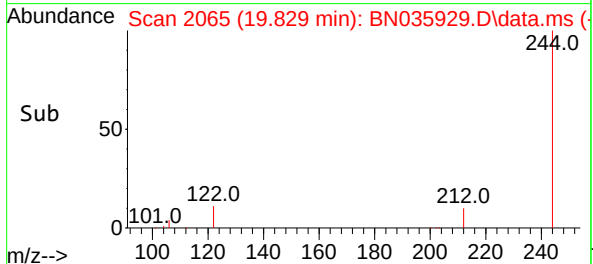
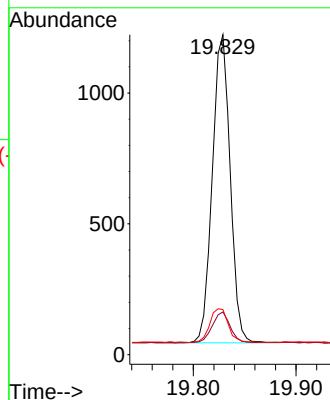
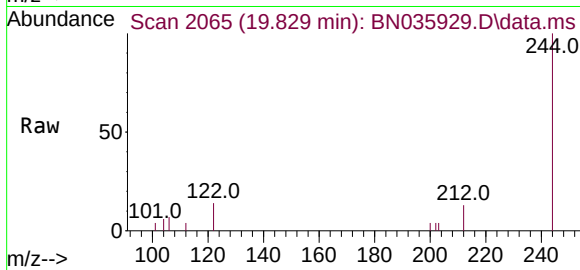




#31
 Terphenyl-d14
 Concen: 0.539 ng
 RT: 19.829 min Scan# 2065
 Delta R.T. -0.008 min
 Lab File: BN035929.D
 Acq: 15 Jan 2025 12:15

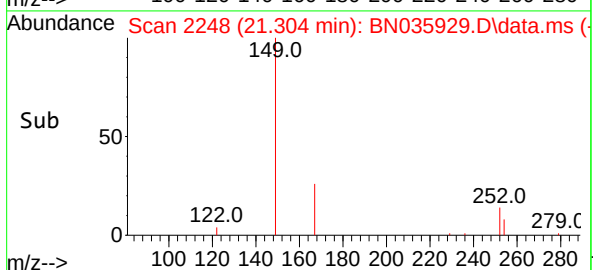
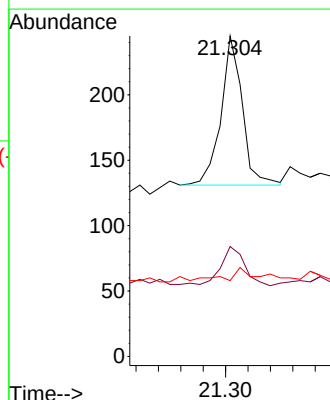
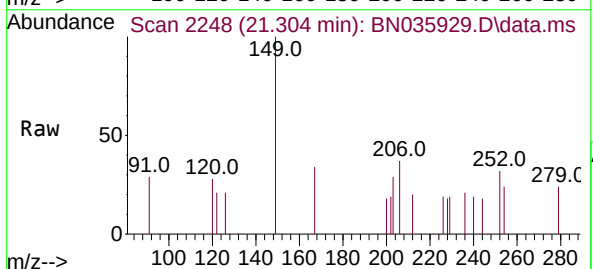
Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP201-20250113

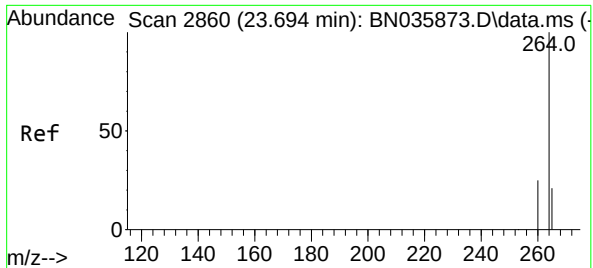
Tgt Ion:244 Resp: 1420
 Ion Ratio Lower Upper
 244 100
 212 13.3 10.1 15.1
 122 14.1 12.2 18.4



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.080 ng
 RT: 21.304 min Scan# 2248
 Delta R.T. -0.017 min
 Lab File: BN035929.D
 Acq: 15 Jan 2025 12:15

Tgt Ion:149 Resp: 151
 Ion Ratio Lower Upper
 149 100
 167 29.8 21.4 32.0
 279 7.9 3.0 4.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.674 min Scan# 21

Delta R.T. -0.020 min

Lab File: BN035929.D

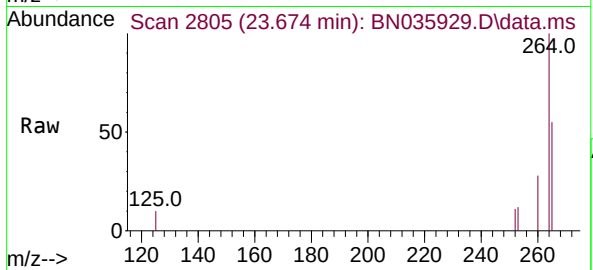
Acq: 15 Jan 2025 12:15

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20250113



Tgt Ion:264 Resp: 1476

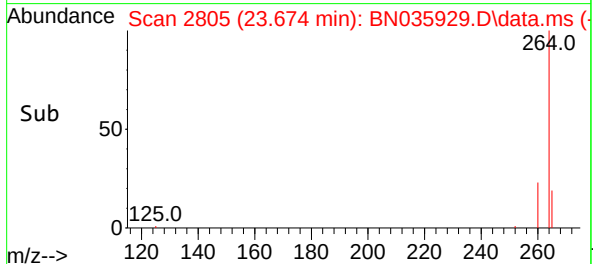
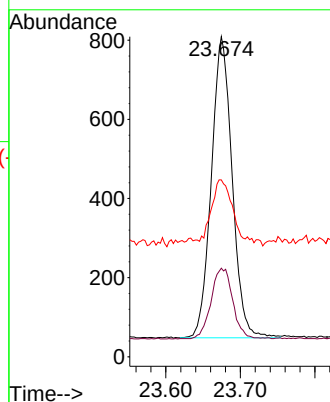
Ion	Ratio	Lower	Upper

264	100		

260	27.7	21.7	32.5

265	55.3	33.9	50.9

#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/13/25
Project:	RW7B - 112G08005-WE13	Date Received:	01/14/25
Client Sample ID:	RW7-SP302-20250113	SDG No.:	Q1081
Lab Sample ID:	Q1081-03	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
BN035930.D	1	01/14/25 11:00	01/15/25 12:51	PB166053

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	0.45		30 - 150		113%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.55		30 - 150		136%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.49	*	55 - 111		123%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		108%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		138%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	624		7.832			
1146-65-2	Naphthalene-d8	1210		10.622			
15067-26-2	Acenaphthene-d10	641		14.458			
1517-22-2	Phenanthrene-d10	1310		17.194			
1719-03-5	Chrysene-d12	1190		21.376			
1520-96-3	Perylene-d12	1310		23.674			

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\BN011525\
Data File : BN035930.D
Acq On : 15 Jan 2025 12:51
Operator : RC/JU
Sample : Q1081-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250113

Quant Time: Jan 15 13:24:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

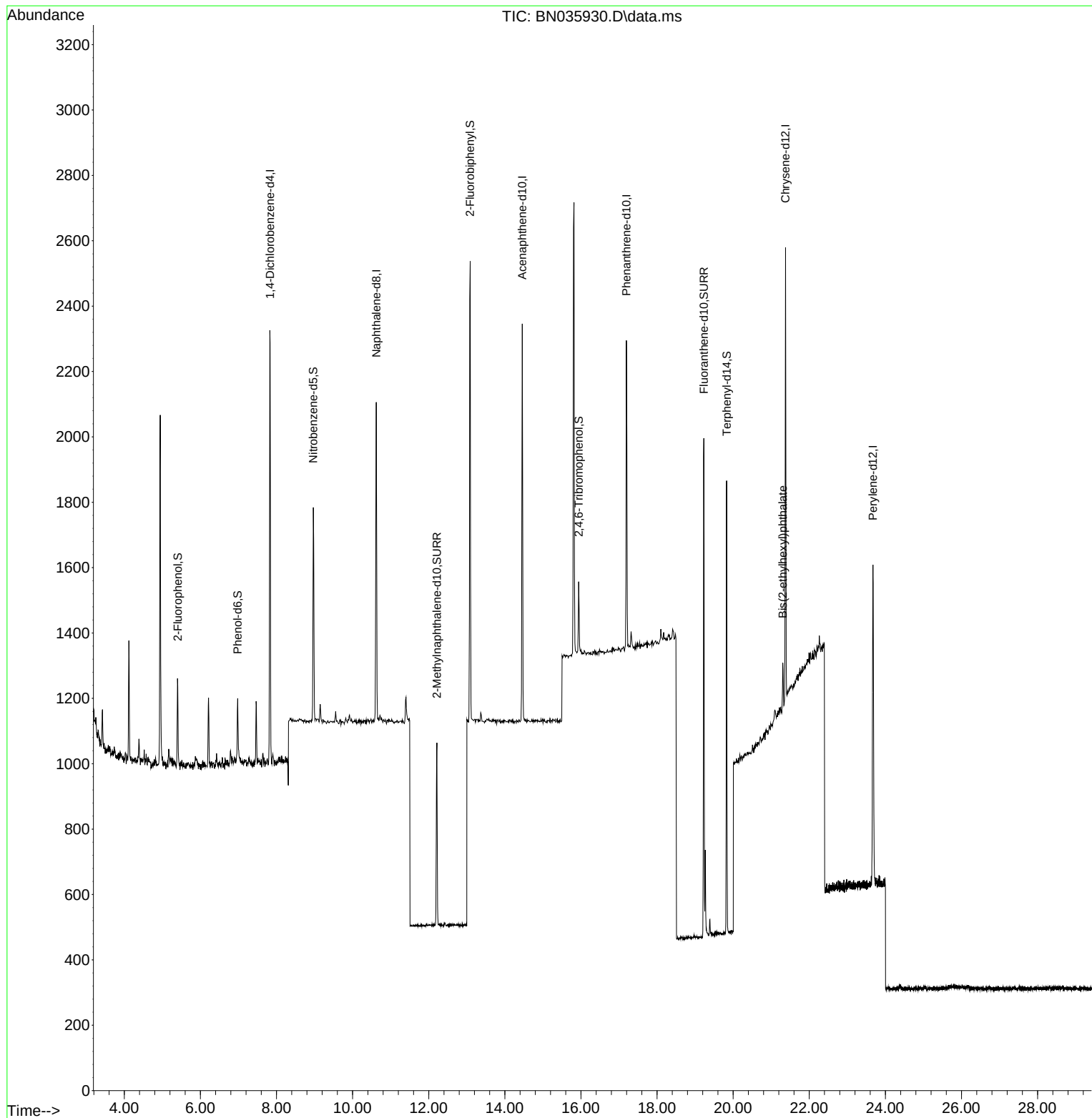
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	624	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1211	0.400	ng	0.00
13) Acenaphthene-d10	14.458	164	641	0.400	ng	0.00
19) Phenanthrene-d10	17.194	188	1308	0.400	ng	#-0.02
29) Chrysene-d12	21.376	240	1187	0.400	ng	0.00
35) Perylene-d12	23.674	264	1308	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.405	112	197	0.129	ng	0.00
5) Phenol-d6	6.979	99	138	0.073	ng	0.00
8) Nitrobenzene-d5	8.967	82	470	0.490	ng	-0.01
11) 2-Methylnaphthalene-d10	12.213	152	731	0.451	ng	0.00
14) 2,4,6-Tribromophenol	15.940	330	130	0.422	ng	-0.02
15) 2-Fluorobiphenyl	13.089	172	1214	0.432	ng	0.00
27) Fluoranthene-d10	19.229	212	1771	0.545	ng	0.00
31) Terphenyl-d14	19.829	244	1306	0.552	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.304	149	181	0.106	ng	# 94

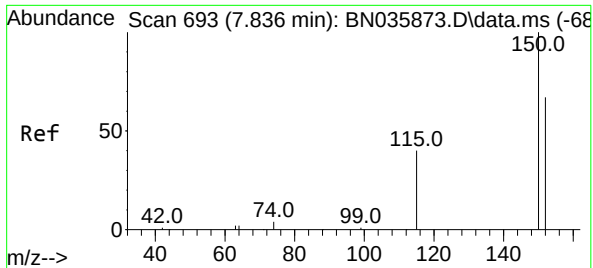
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035930.D
Acq On : 15 Jan 2025 12:51
Operator : RC/JU
Sample : Q1081-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250113

Quant Time: Jan 15 13:24:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

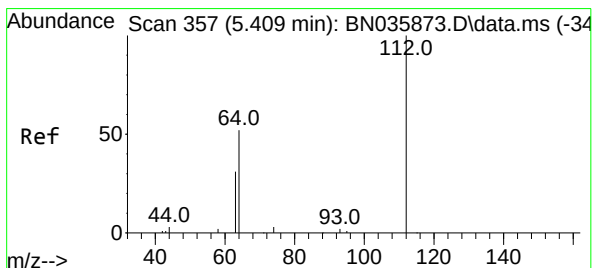
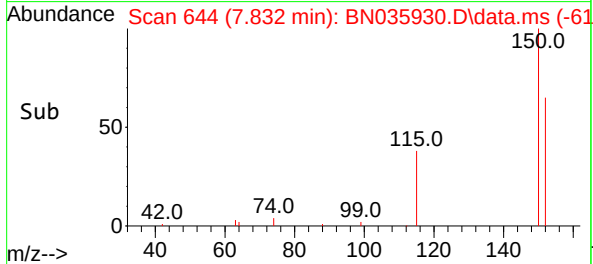
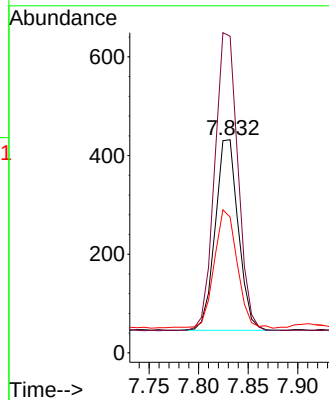
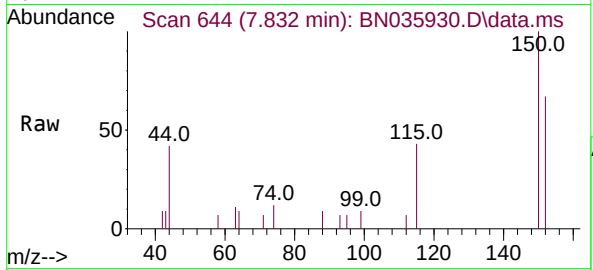




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035930.D
Acq: 15 Jan 2025 12:51

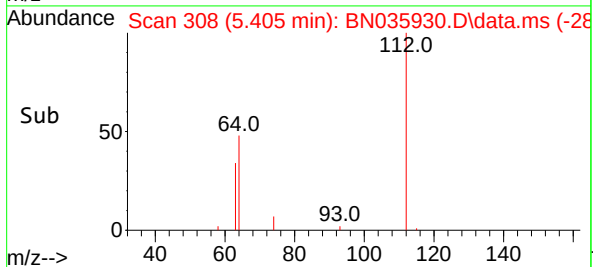
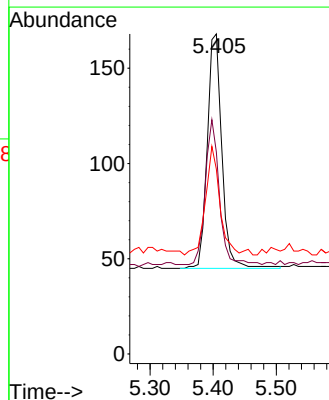
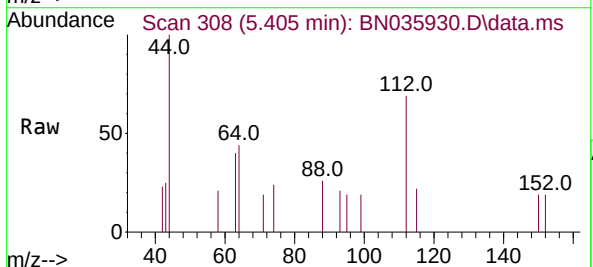
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250113

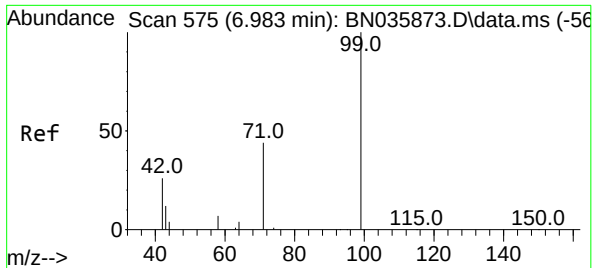
Tgt Ion:152 Resp: 624
Ion Ratio Lower Upper
152 100
150 148.6 117.8 176.6
115 63.7 51.0 76.4



#4
2-Fluorophenol
Concen: 0.129 ng
RT: 5.405 min Scan# 308
Delta R.T. -0.004 min
Lab File: BN035930.D
Acq: 15 Jan 2025 12:51

Tgt Ion:112 Resp: 197
Ion Ratio Lower Upper
112 100
64 58.9 48.2 72.2
63 45.2 30.0 45.0#

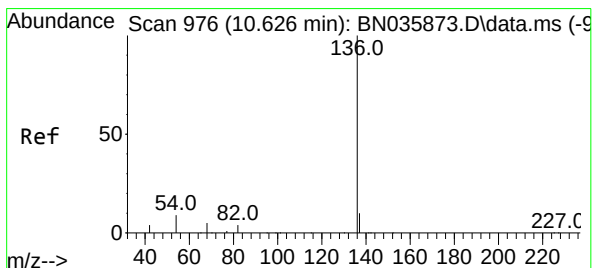
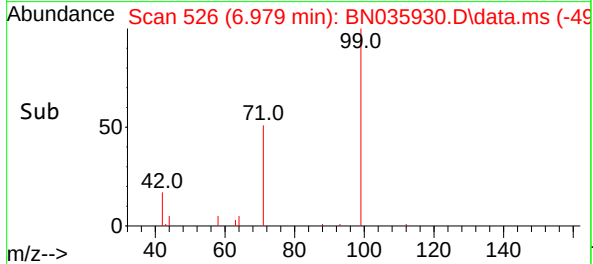
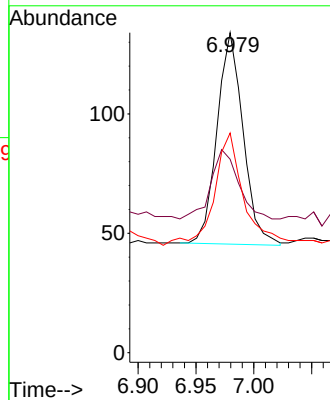
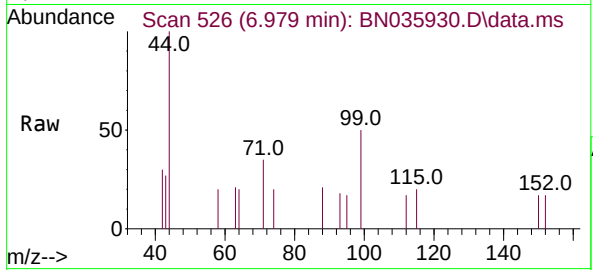




#5
Phenol-d6
Concen: 0.073 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035930.D
Acq: 15 Jan 2025 12:51

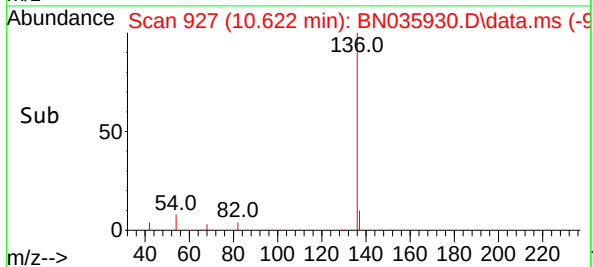
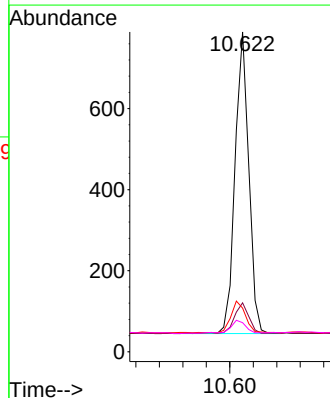
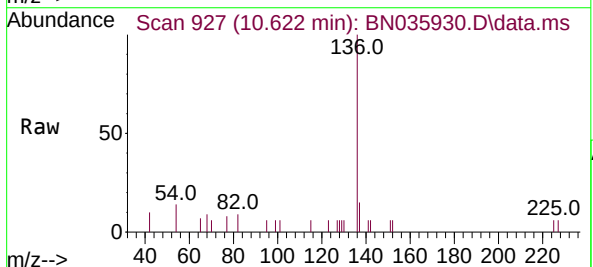
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250113

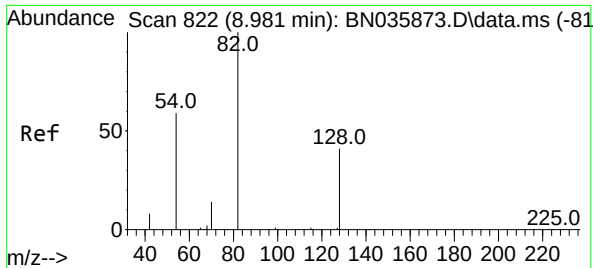
Tgt Ion	Ratio	Lower	Upper
99	100		
42	37.0	23.5	35.3#
71	63.8	35.5	53.3#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 927
Delta R.T. -0.004 min
Lab File: BN035930.D
Acq: 15 Jan 2025 12:51

Tgt Ion	Ratio	Lower	Upper
136	100		
137	15.3	10.6	15.8
54	13.7	9.8	14.6
68	9.1	6.6	10.0

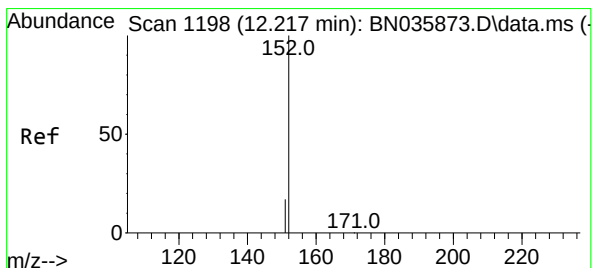
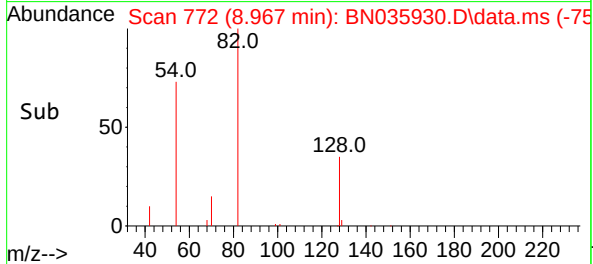
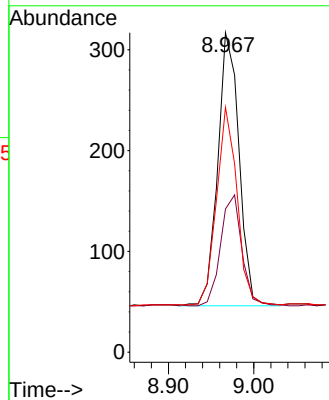
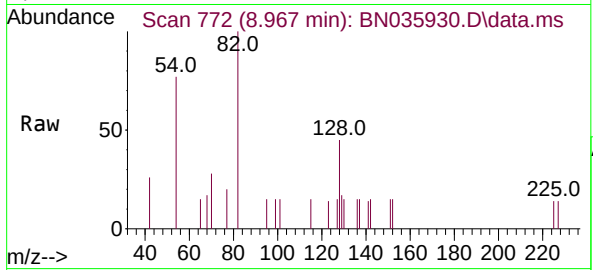




#8
Nitrobenzene-d5
Concen: 0.490 ng
RT: 8.967 min Scan# 71
Delta R.T. -0.015 min
Lab File: BN035930.D
Acq: 15 Jan 2025 12:51

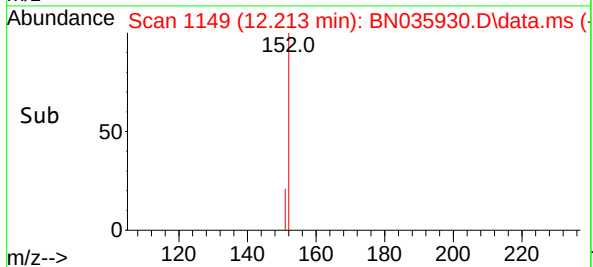
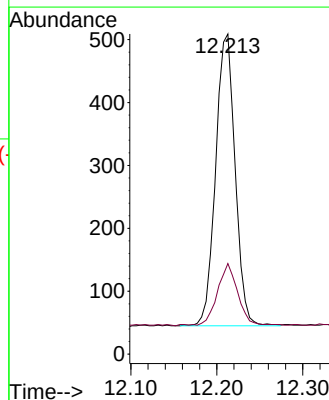
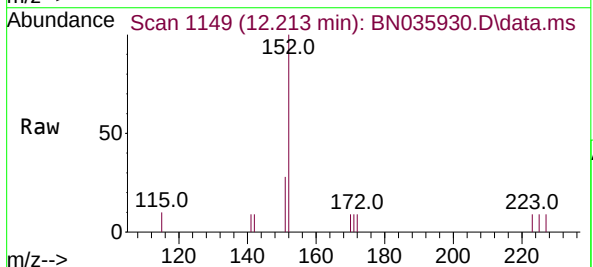
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250113

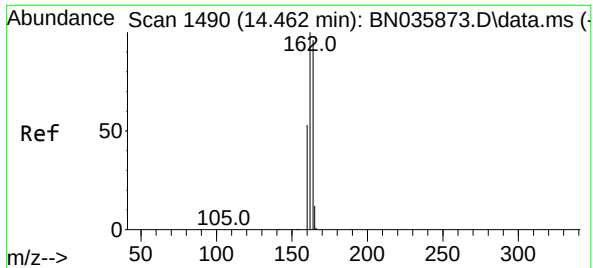
Tgt Ion: 82 Resp: 470
Ion Ratio Lower Upper
82 100
128 44.8 36.9 55.3
54 76.7 50.4 75.6#



#11
2-Methylnaphthalene-d10
Concen: 0.451 ng
RT: 12.213 min Scan# 1149
Delta R.T. -0.004 min
Lab File: BN035930.D
Acq: 15 Jan 2025 12:51

Tgt Ion: 152 Resp: 731
Ion Ratio Lower Upper
152 100
151 21.6 17.0 25.6

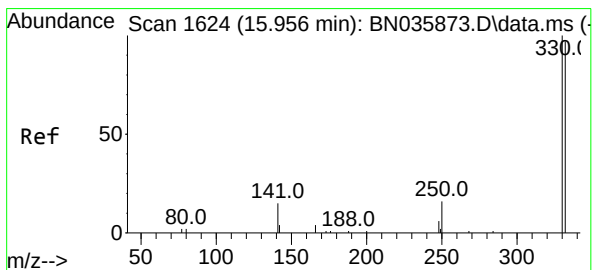
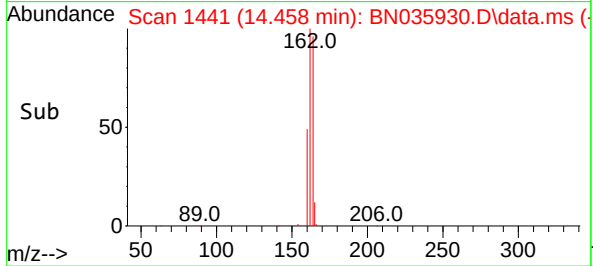
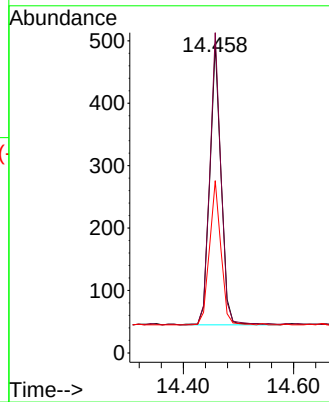
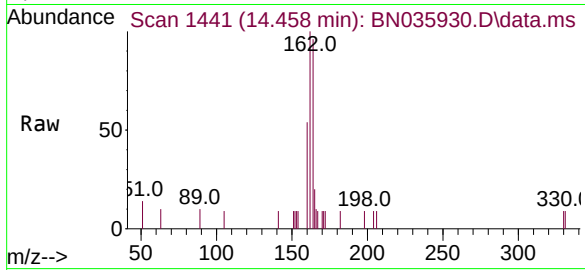




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.458 min Scan# 14
Delta R.T. -0.004 min
Lab File: BN035930.D
Acq: 15 Jan 2025 12:51

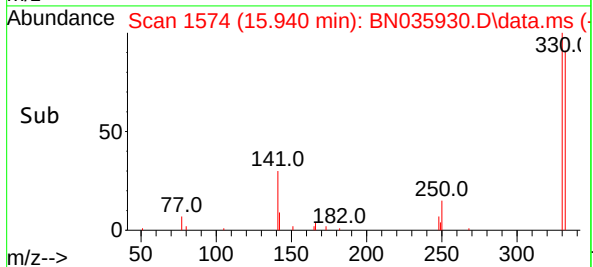
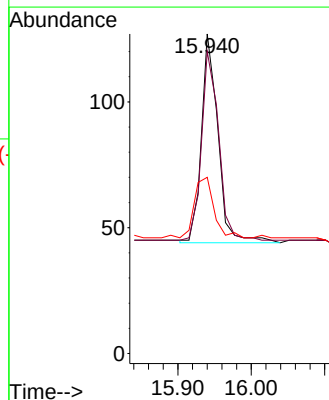
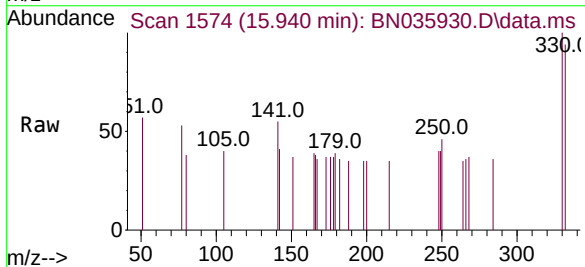
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250113

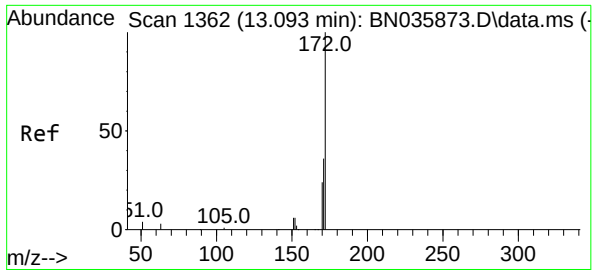
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.6	83.1	124.7
160	55.8	46.0	69.0



#14
2,4,6-Tribromophenol
Concen: 0.422 ng
RT: 15.940 min Scan# 1574
Delta R.T. -0.016 min
Lab File: BN035930.D
Acq: 15 Jan 2025 12:51

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.1	77.2	115.8
141	40.0	31.6	47.4

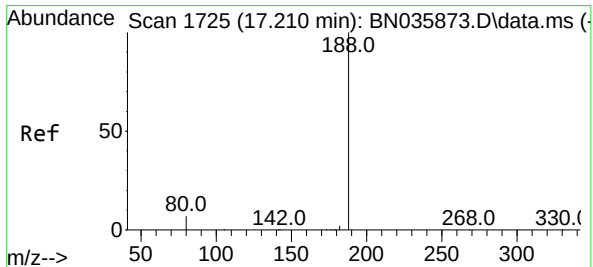
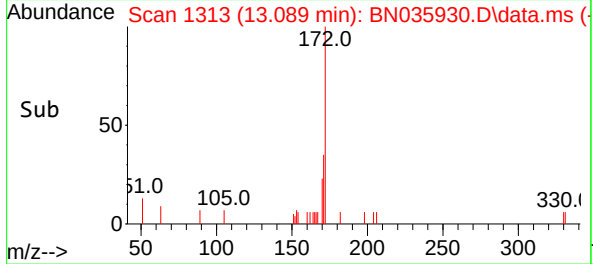
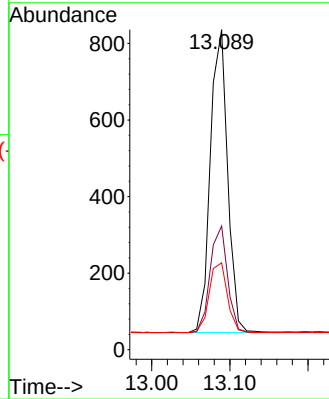
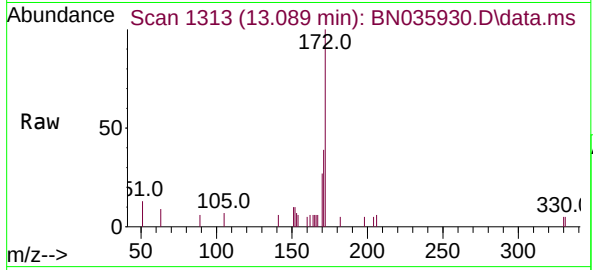




#15
2-Fluorobiphenyl
Concen: 0.432 ng
RT: 13.089 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN035930.D
Acq: 15 Jan 2025 12:51

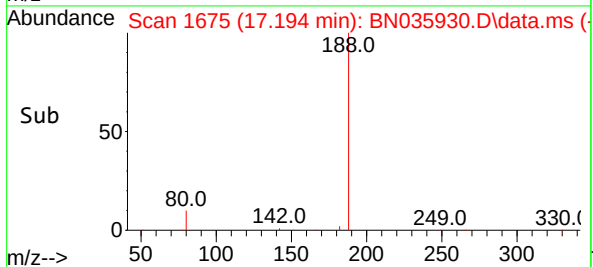
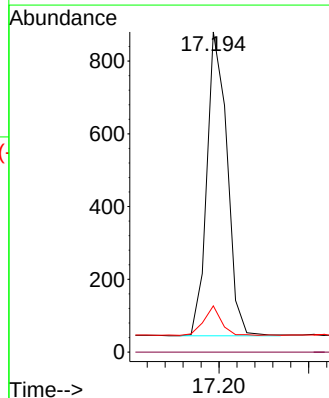
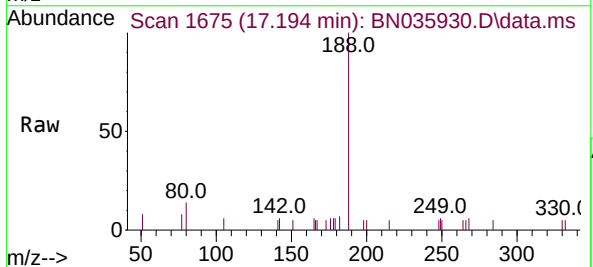
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250113

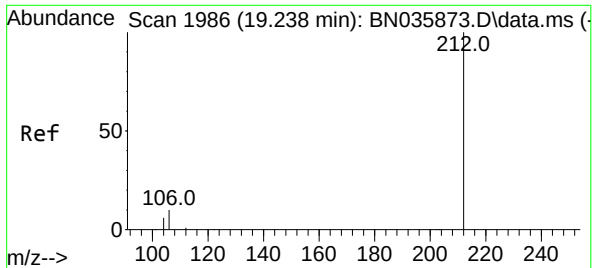
Tgt Ion:	172	Resp:	1214
Ion	Ratio	Lower	Upper
172	100		
171	38.6	30.5	45.7
170	27.2	20.8	31.2



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.194 min Scan# 1675
Delta R.T. -0.016 min
Lab File: BN035930.D
Acq: 15 Jan 2025 12:51

Tgt Ion:	188	Resp:	1308
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.4	7.3	10.9





#27

Fluoranthene-d10

Concen: 0.545 ng

RT: 19.229 min Scan# 1986

Delta R.T. -0.009 min

Lab File: BN035930.D

Acq: 15 Jan 2025 12:51

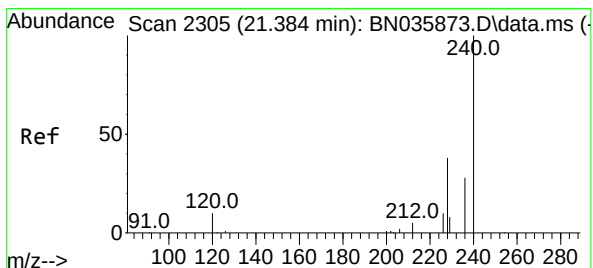
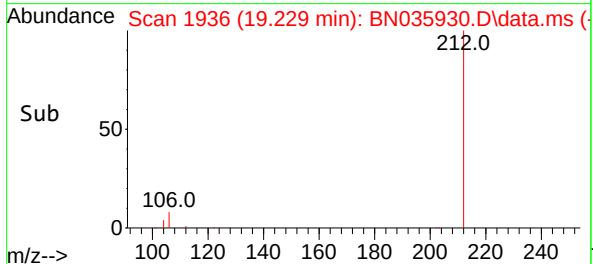
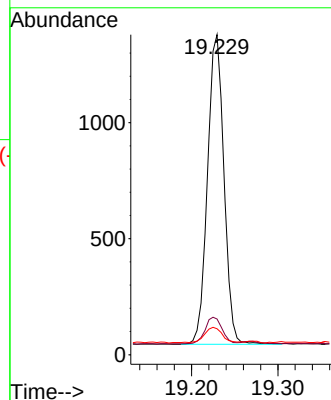
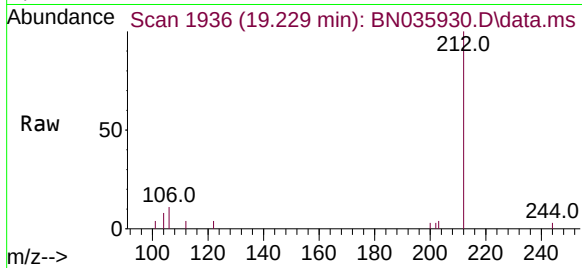
Instrument :

BNA_N

ClientSampleId :

RW7-SP302-20250113

Tgt Ion:212	Resp:	1771
Ion	Ratio	Lower Upper
212	100	
106	8.9	9.0 13.6#
104	5.6	5.4 8.2



#29

Chrysene-d12

Concen: 0.400 ng

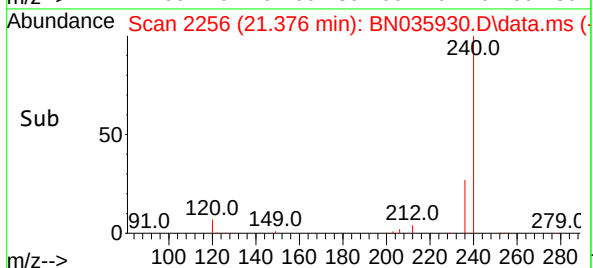
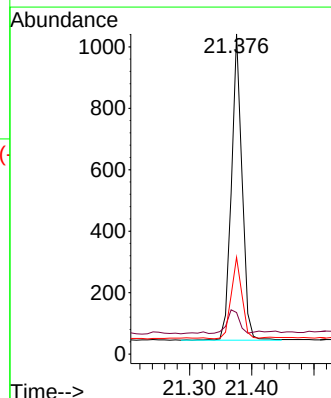
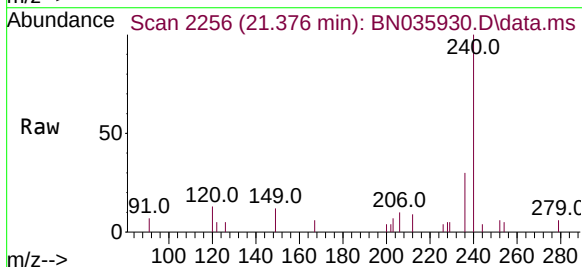
RT: 21.376 min Scan# 2256

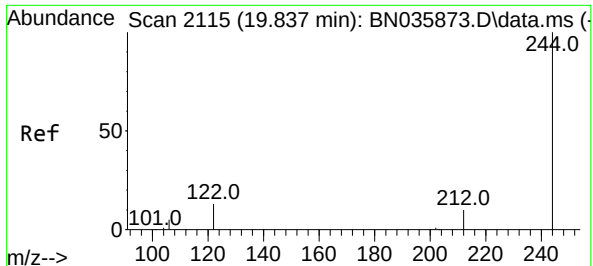
Delta R.T. -0.008 min

Lab File: BN035930.D

Acq: 15 Jan 2025 12:51

Tgt Ion:240	Resp:	1187
Ion	Ratio	Lower Upper
240	100	
120	13.0	11.1 16.7
236	30.2	24.6 36.8

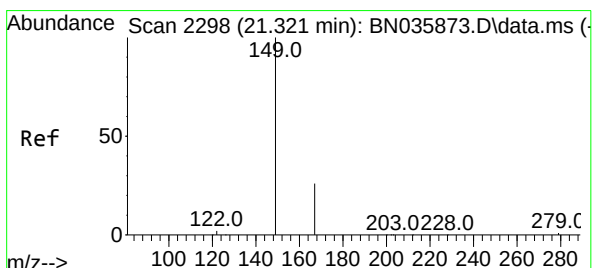
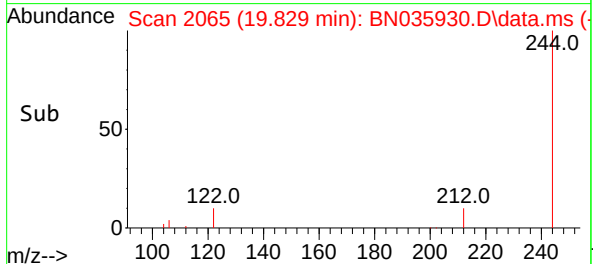
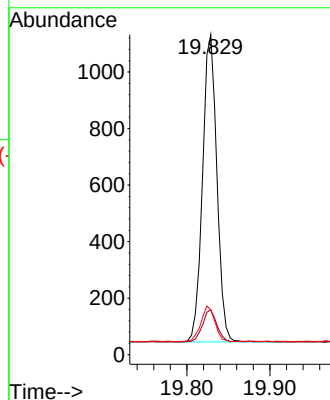
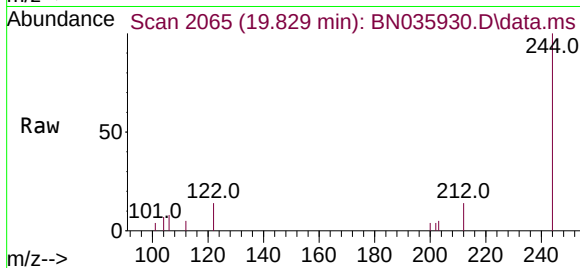




#31
Terphenyl-d14
Concen: 0.552 ng
RT: 19.829 min Scan# 2065
Delta R.T. -0.009 min
Lab File: BN035930.D
Acq: 15 Jan 2025 12:51

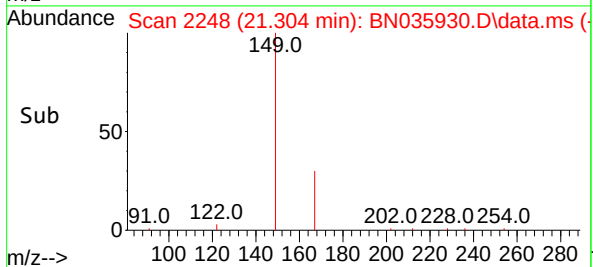
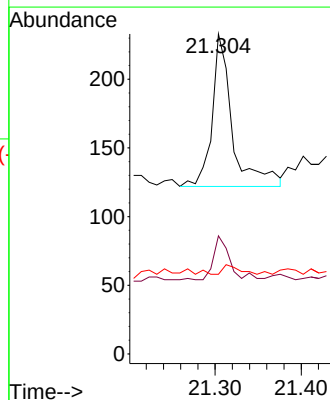
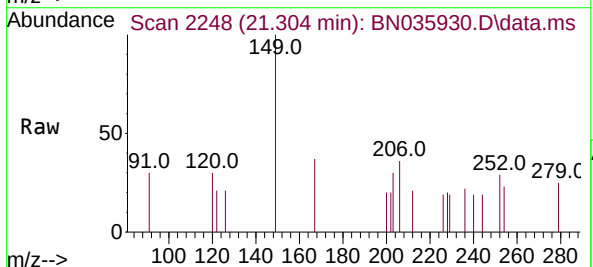
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20250113

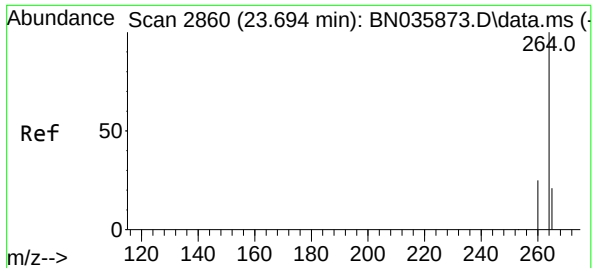
Tgt Ion	Ratio	Lower	Upper
244	100		
212	14.0	10.1	15.1
122	14.0	12.2	18.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.106 ng
RT: 21.304 min Scan# 2248
Delta R.T. -0.017 min
Lab File: BN035930.D
Acq: 15 Jan 2025 12:51

Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.2	21.4	32.0
279	5.0	3.0	4.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.674 min Scan# 21

Delta R.T. -0.020 min

Lab File: BN035930.D

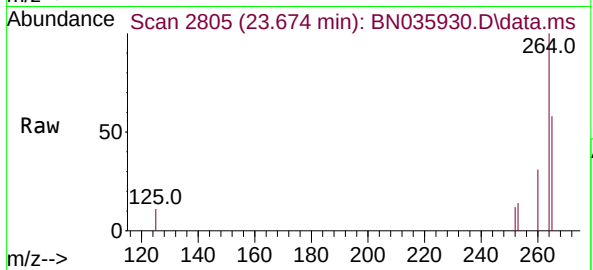
Acq: 15 Jan 2025 12:51

Instrument :

BNA_N

ClientSampleId :

RW7-SP302-20250113



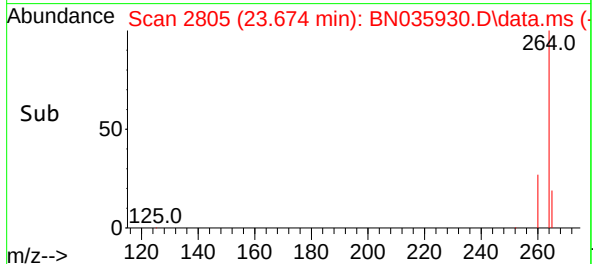
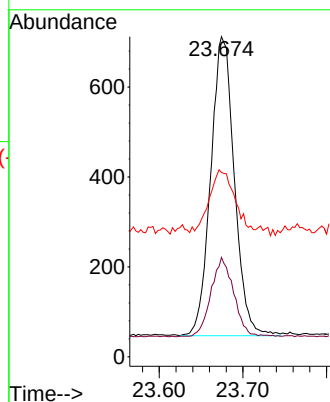
Tgt Ion:264 Resp: 1308

Ion Ratio Lower Upper

264 100

260 31.0 21.7 32.5

265 57.6 33.9 50.9#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/13/25
Project:	RW7B - 112G08005-WE13	Date Received:	01/14/25
Client Sample ID:	RW7-SP303-20250113	SDG No.:	Q1081
Lab Sample ID:	Q1081-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035932.D	1	01/14/25 11:00	01/15/25 14:02	PB166053

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	0.49		30 - 150		122%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.56		30 - 150		139%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.51	*	55 - 111		128%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.49	*	53 - 106		123%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.61	*	58 - 132		152%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	634		7.832			
1146-65-2	Naphthalene-d8	1190		10.622			
15067-26-2	Acenaphthene-d10	633		14.452			
1517-22-2	Phenanthrene-d10	1320		17.199			
1719-03-5	Chrysene-d12	1180		21.376			
1520-96-3	Perylene-d12	1330		23.675			

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\BN011525\
Data File : BN035932.D
Acq On : 15 Jan 2025 14:02
Operator : RC/JU
Sample : Q1081-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250113

Quant Time: Jan 15 14:33:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

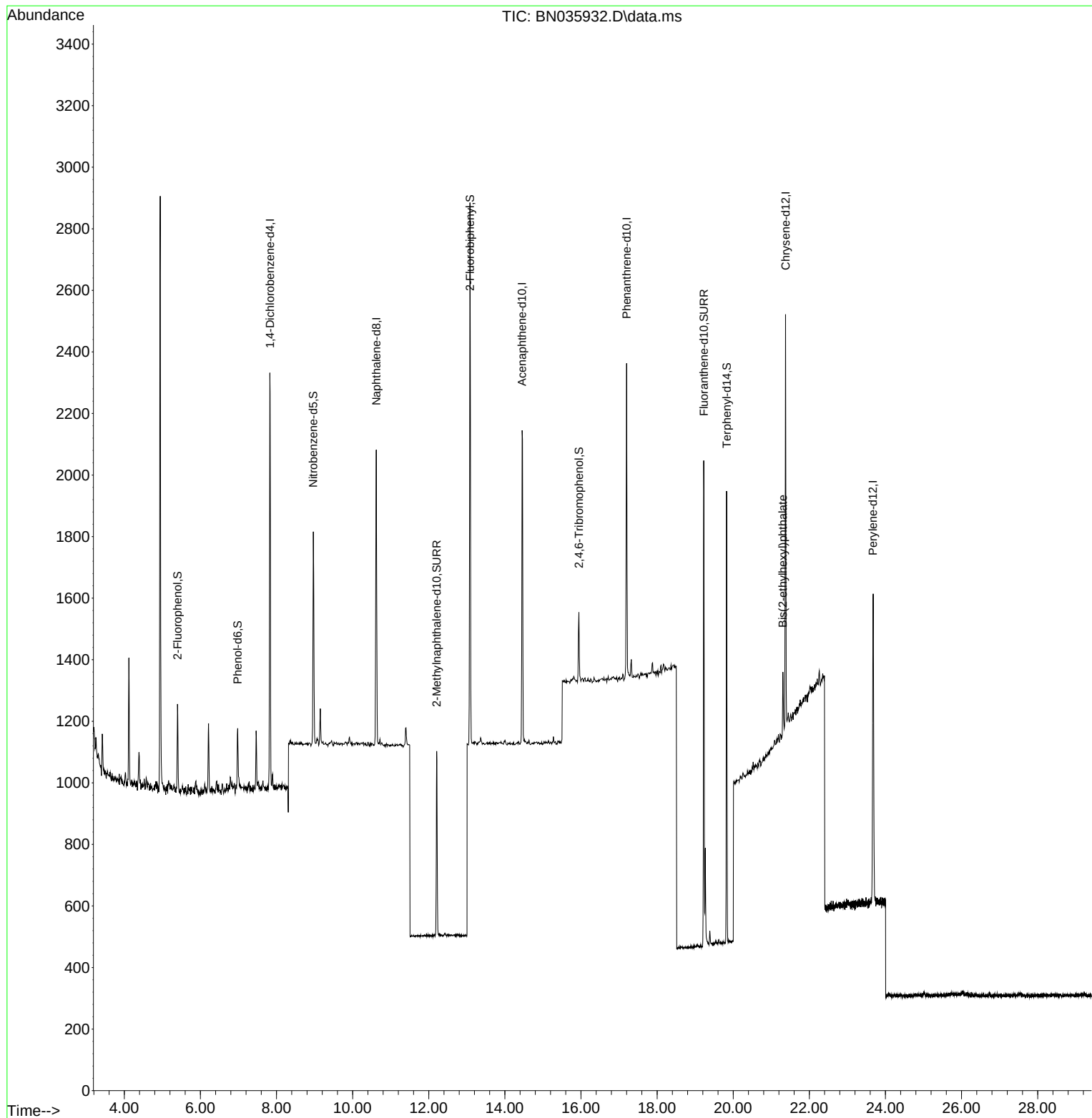
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	634	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1190	0.400	ng	# 0.00
13) Acenaphthene-d10	14.452	164	633	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1322	0.400	ng	-0.01
29) Chrysene-d12	21.376	240	1184	0.400	ng	0.00
35) Perylene-d12	23.675	264	1334	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.398	112	210	0.135	ng	-0.01
5) Phenol-d6	6.979	99	156	0.081	ng	0.00
8) Nitrobenzene-d5	8.967	82	483	0.513	ng	-0.01
11) 2-Methylnaphthalene-d10	12.208	152	774	0.486	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	136	0.447	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	1368	0.493	ng	0.00
27) Fluoranthene-d10	19.225	212	1822	0.555	ng	-0.01
31) Terphenyl-d14	19.829	244	1437	0.609	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.304	149	198	0.117	ng	# 97

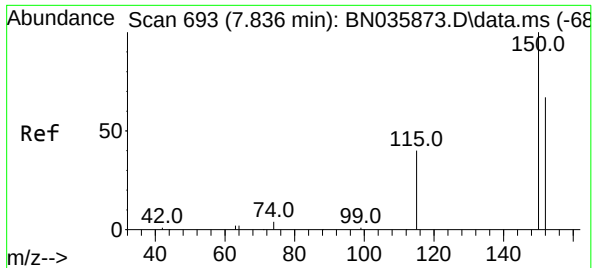
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035932.D
Acq On : 15 Jan 2025 14:02
Operator : RC/JU
Sample : Q1081-04
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250113

Quant Time: Jan 15 14:33:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

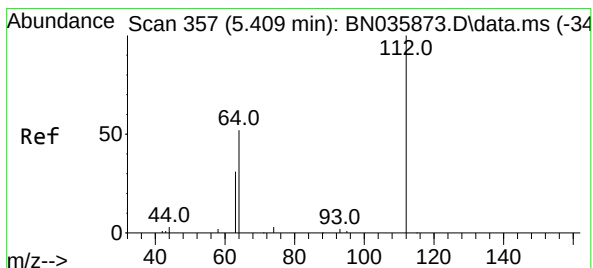
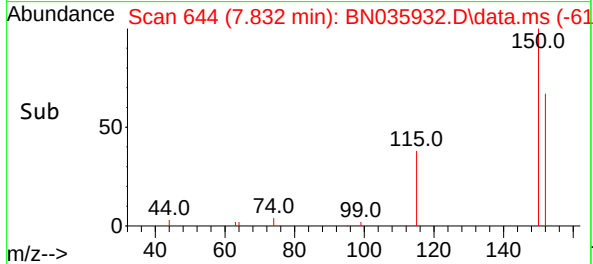
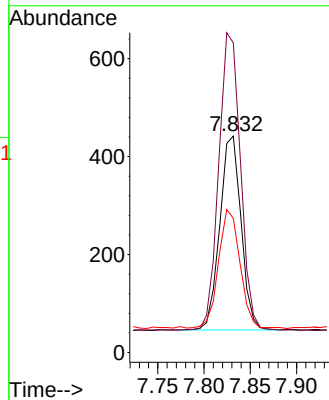
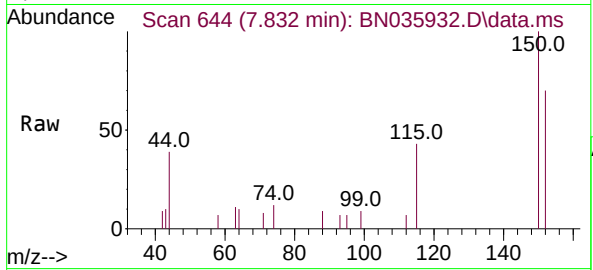




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035932.D
Acq: 15 Jan 2025 14:02

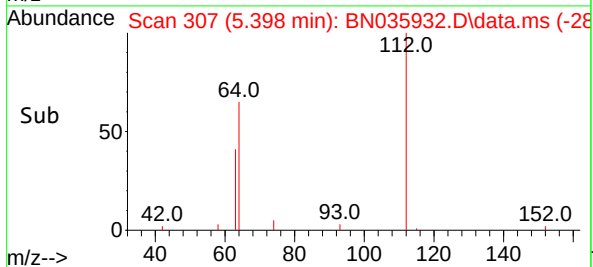
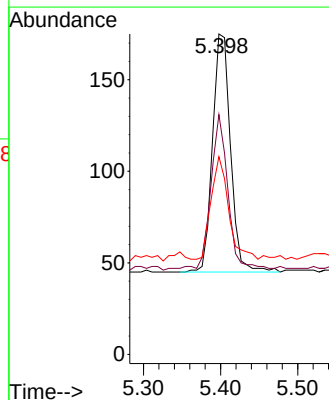
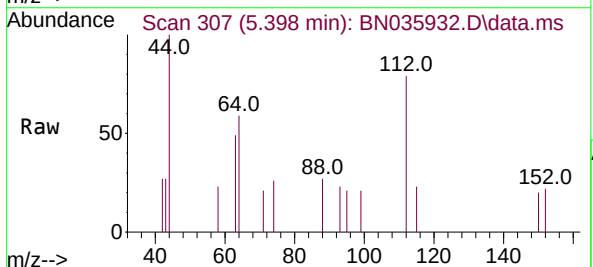
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250113

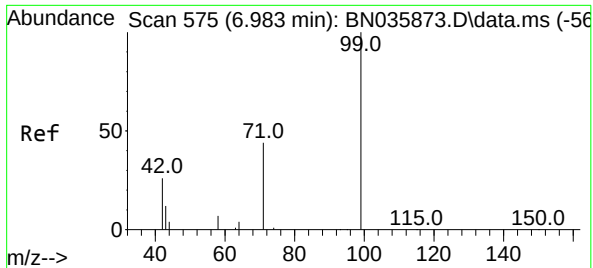
Tgt Ion:152 Resp: 634
Ion Ratio Lower Upper
152 100
150 143.0 117.8 176.6
115 62.0 51.0 76.4



#4
2-Fluorophenol
Concen: 0.135 ng
RT: 5.398 min Scan# 307
Delta R.T. -0.011 min
Lab File: BN035932.D
Acq: 15 Jan 2025 14:02

Tgt Ion:112 Resp: 210
Ion Ratio Lower Upper
112 100
64 61.4 48.2 72.2
63 41.9 30.0 45.0

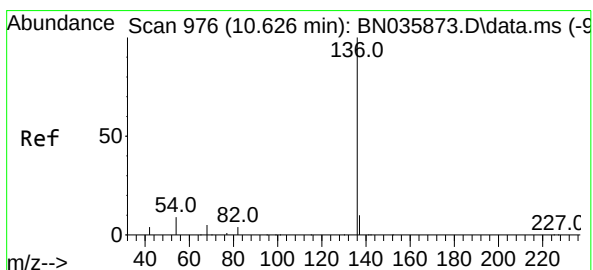
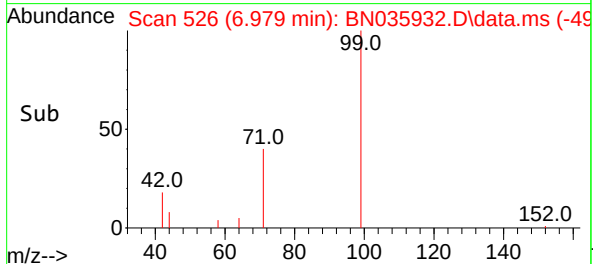
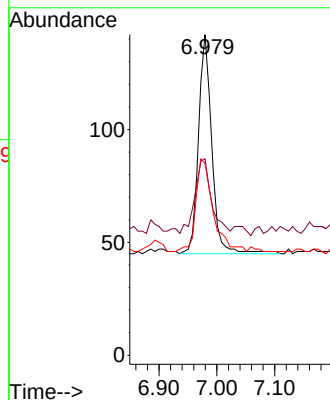
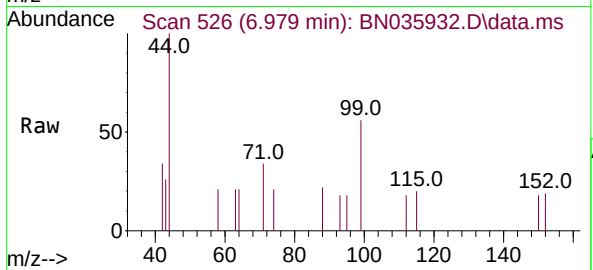




#5
Phenol-d6
Concen: 0.081 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035932.D
Acq: 15 Jan 2025 14:02

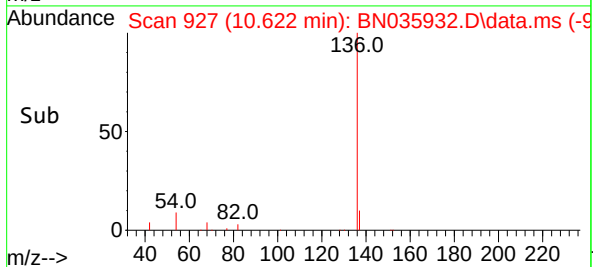
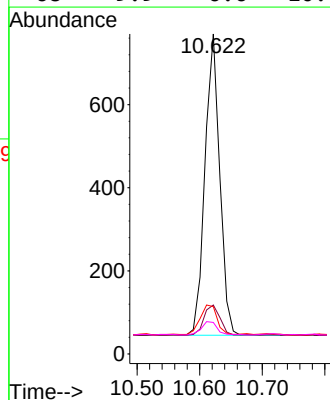
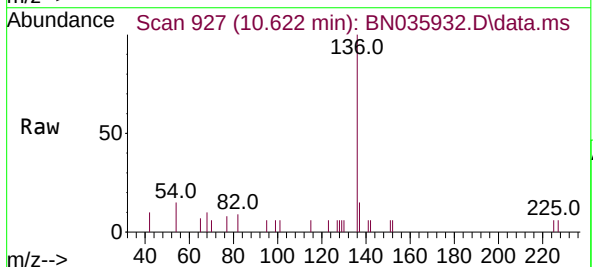
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250113

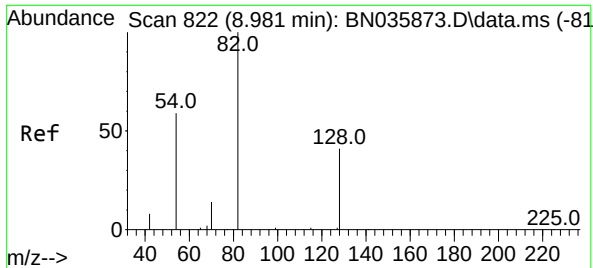
Tgt Ion	Ratio	Lower	Upper
99	100		
42	40.4	23.5	35.3#
71	53.8	35.5	53.3#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 927
Delta R.T. -0.004 min
Lab File: BN035932.D
Acq: 15 Jan 2025 14:02

Tgt Ion	Ratio	Lower	Upper
136	100		
137	15.3	10.6	15.8
54	14.8	9.8	14.6#
68	9.9	6.6	10.0

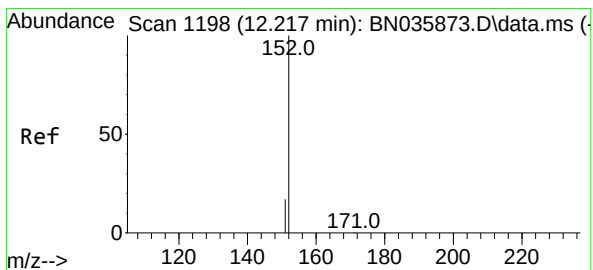
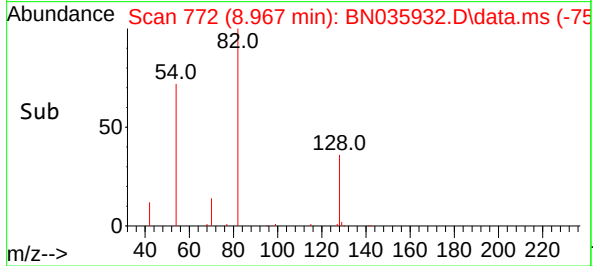
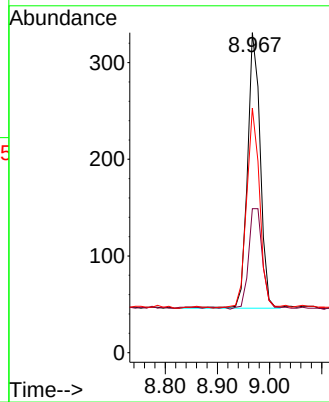
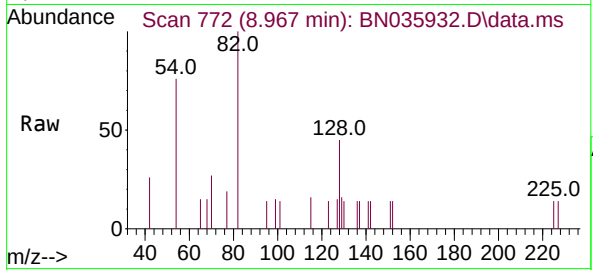




#8
Nitrobenzene-d5
Concen: 0.513 ng
RT: 8.967 min Scan# 71
Delta R.T. -0.015 min
Lab File: BN035932.D
Acq: 15 Jan 2025 14:02

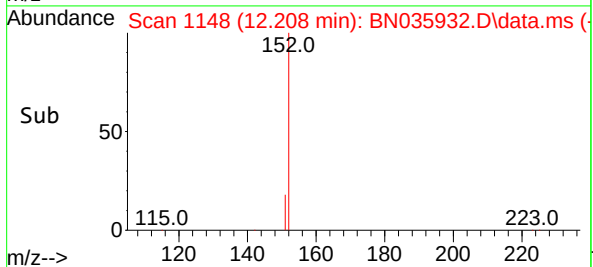
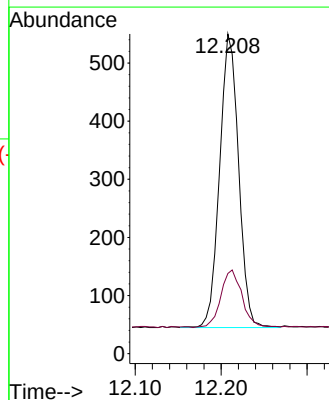
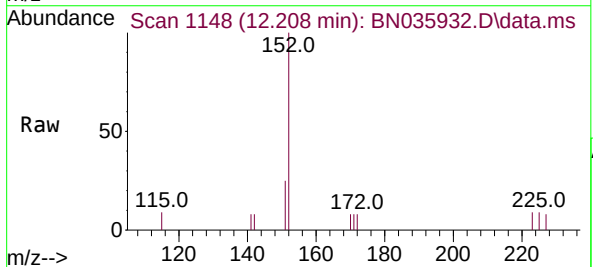
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250113

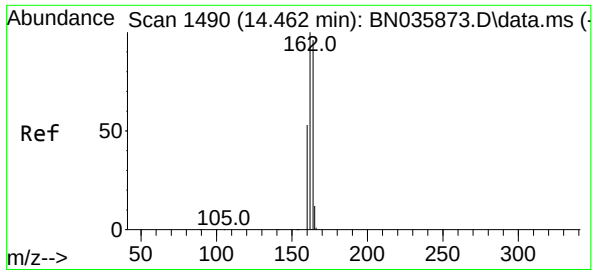
Tgt Ion: 82 Resp: 483
Ion Ratio Lower Upper
82 100
128 45.0 36.9 55.3
54 76.4 50.4 75.6#



#11
2-Methylnaphthalene-d10
Concen: 0.486 ng
RT: 12.208 min Scan# 1148
Delta R.T. -0.009 min
Lab File: BN035932.D
Acq: 15 Jan 2025 14:02

Tgt Ion: 152 Resp: 774
Ion Ratio Lower Upper
152 100
151 22.1 17.0 25.6

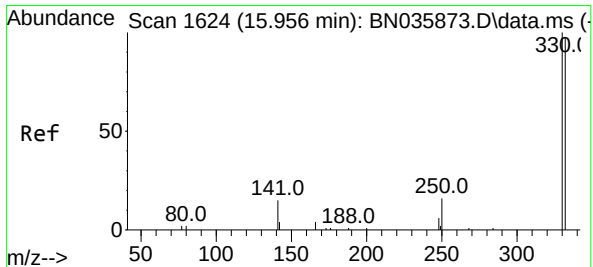
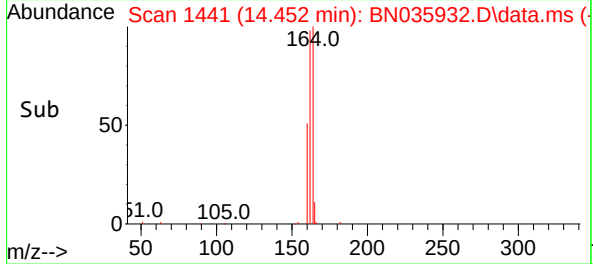
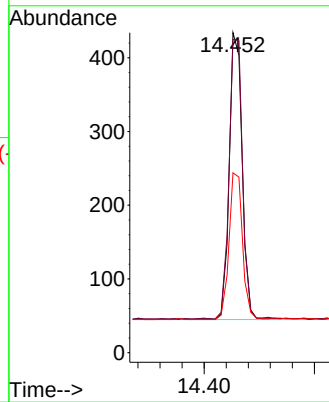
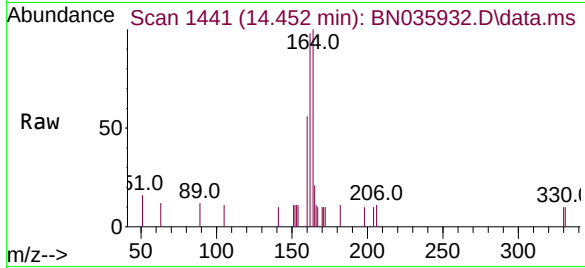




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.452 min Scan# 14
Delta R.T. -0.009 min
Lab File: BN035932.D
Acq: 15 Jan 2025 14:02

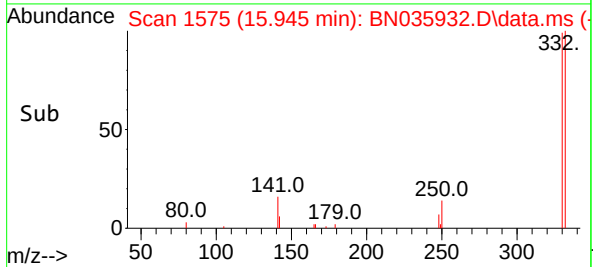
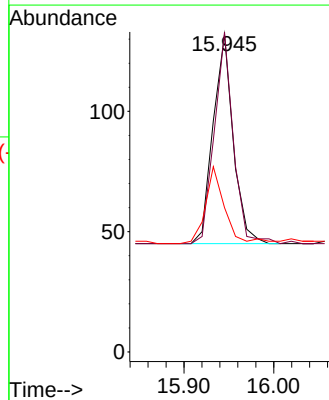
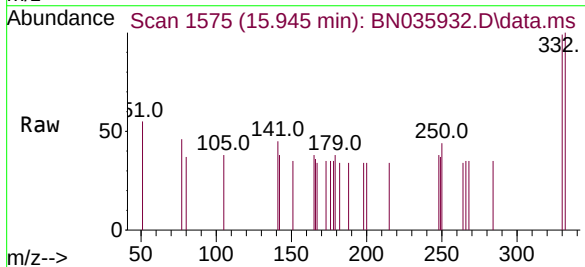
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250113

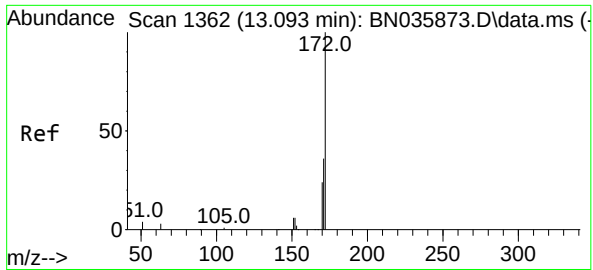
Tgt Ion:164 Resp: 633
Ion Ratio Lower Upper
164 100
162 97.9 83.1 124.7
160 56.2 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 0.447 ng
RT: 15.945 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035932.D
Acq: 15 Jan 2025 14:02

Tgt Ion:330 Resp: 136
Ion Ratio Lower Upper
330 100
332 95.6 77.2 115.8
141 35.3 31.6 47.4

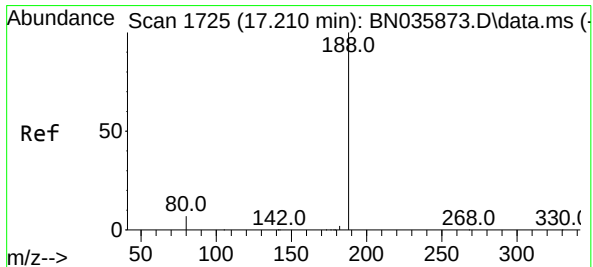
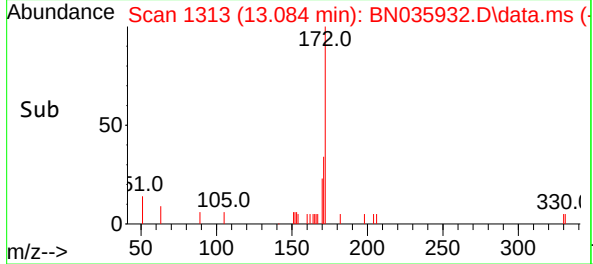
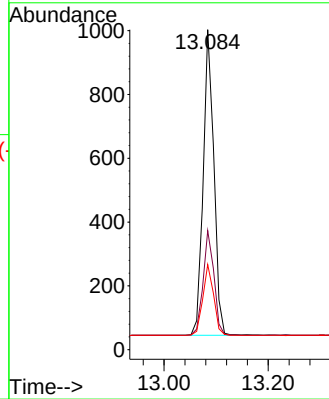
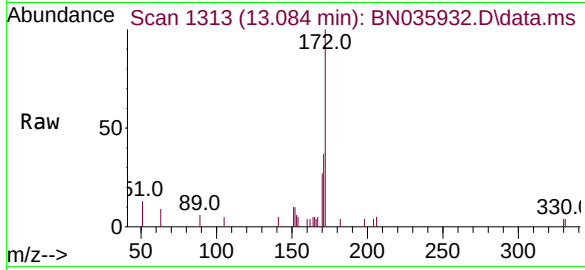




#15
2-Fluorobiphenyl
Concen: 0.493 ng
RT: 13.084 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN035932.D
Acq: 15 Jan 2025 14:02

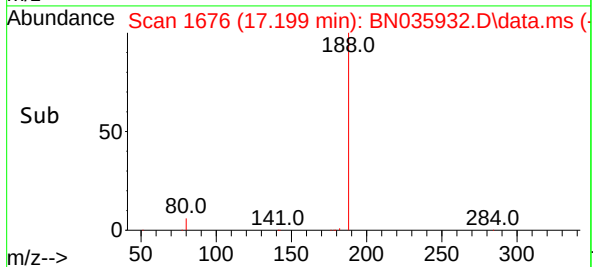
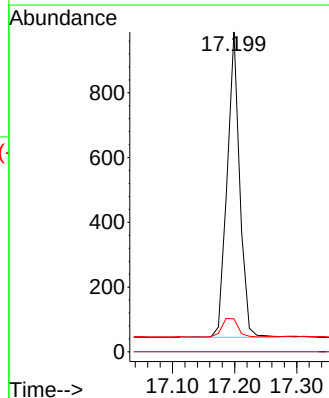
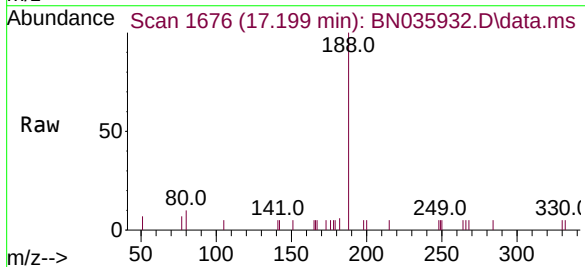
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250113

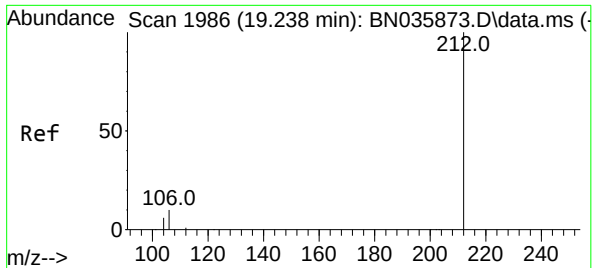
Tgt Ion:	172	Resp:	1368
Ion Ratio	Lower	Upper	
172	100		
171	37.2	30.5	45.7
170	26.6	20.8	31.2



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.199 min Scan# 1676
Delta R.T. -0.011 min
Lab File: BN035932.D
Acq: 15 Jan 2025 14:02

Tgt Ion:	188	Resp:	1322
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	10.3	7.3	10.9

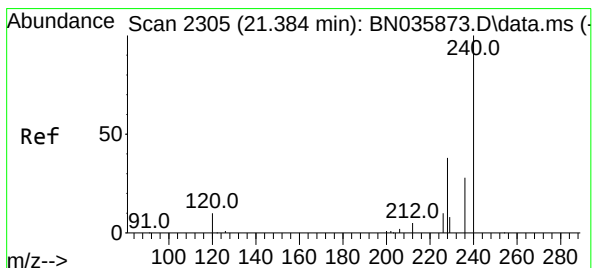
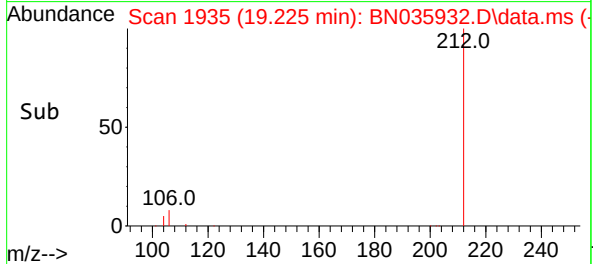
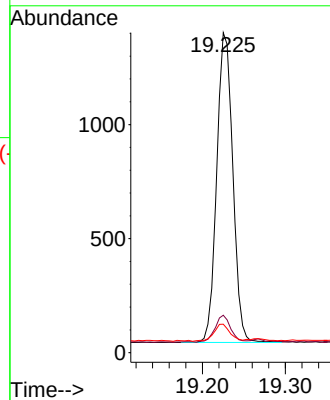
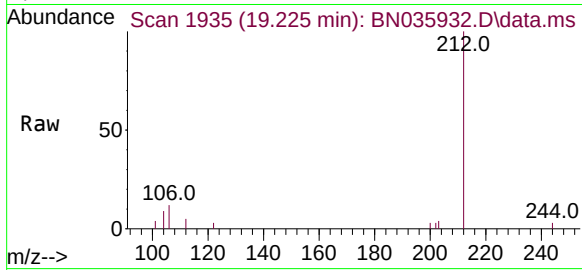




#27
Fluoranthene-d10
Concen: 0.555 ng
RT: 19.225 min Scan# 1986
Delta R.T. -0.013 min
Lab File: BN035932.D
Acq: 15 Jan 2025 14:02

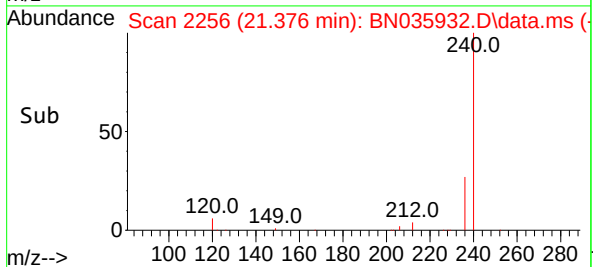
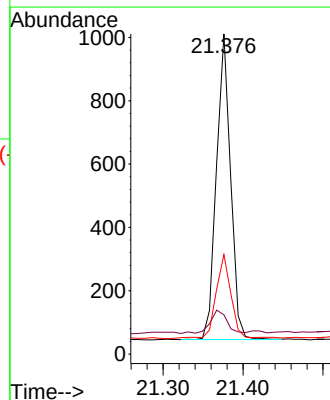
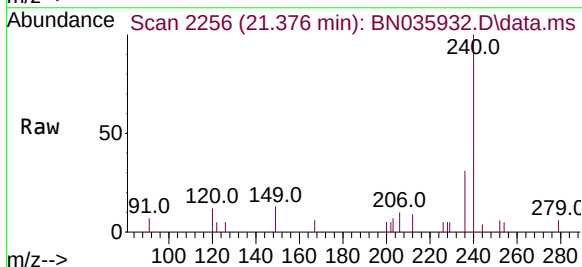
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20250113

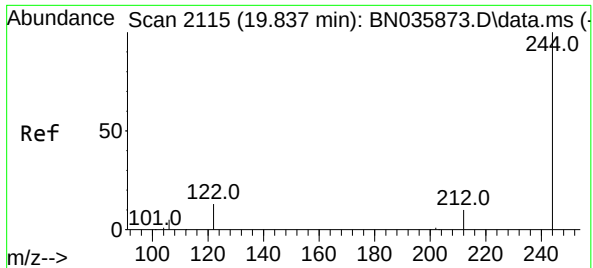
Tgt Ion	Ratio	Lower	Upper
212	100		
106	8.5	9.0	13.6#
104	5.5	5.4	8.2



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.376 min Scan# 2256
Delta R.T. -0.008 min
Lab File: BN035932.D
Acq: 15 Jan 2025 14:02

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.3	11.1	16.7
236	31.1	24.6	36.8

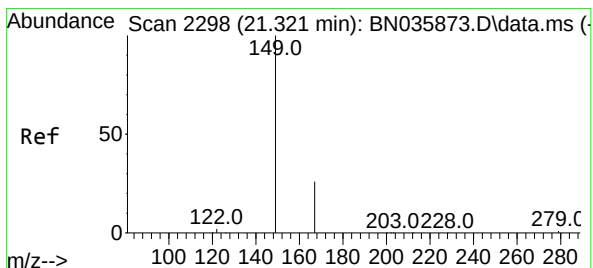
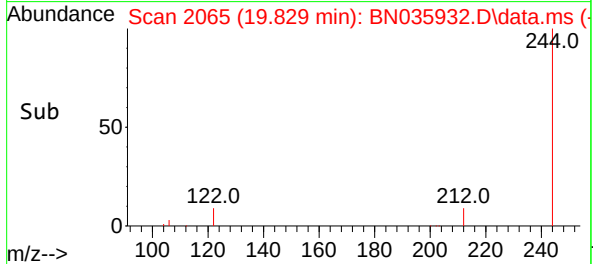
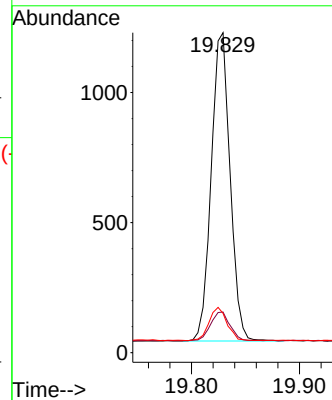
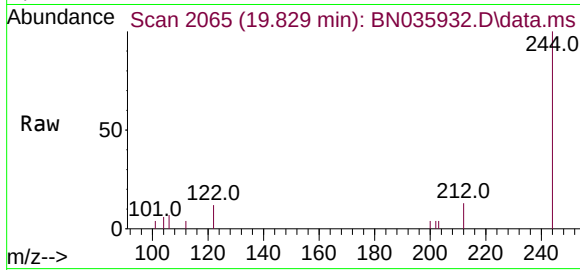




#31
 Terphenyl-d14
 Concen: 0.609 ng
 RT: 19.829 min Scan# 2065
 Delta R.T. -0.008 min
 Lab File: BN035932.D
 Acq: 15 Jan 2025 14:02

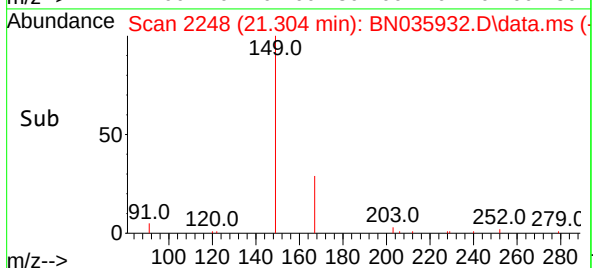
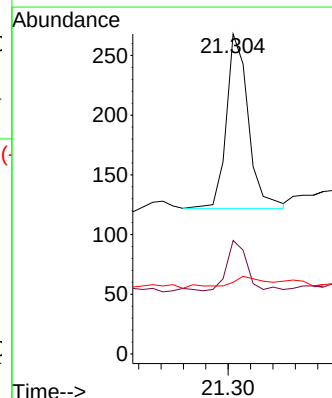
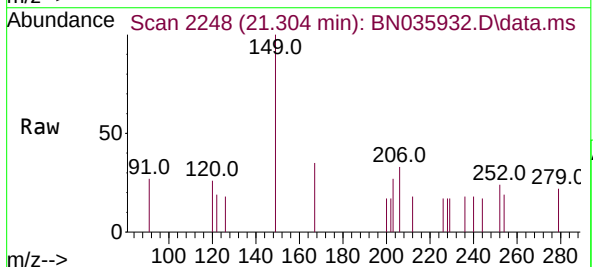
Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP303-20250113

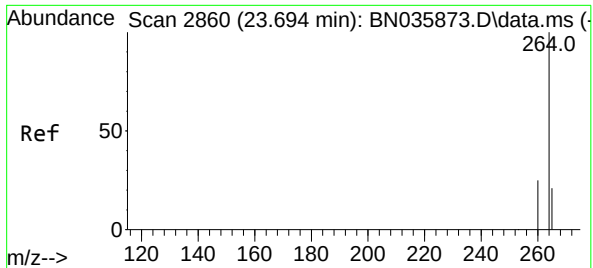
Tgt Ion:244	Resp:	1437
Ion Ratio	Lower	Upper
244	100	
212	12.7	10.1 15.1
122	12.3	12.2 18.4



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.117 ng
 RT: 21.304 min Scan# 2248
 Delta R.T. -0.017 min
 Lab File: BN035932.D
 Acq: 15 Jan 2025 14:02

Tgt Ion:149	Resp:	198
Ion Ratio	Lower	Upper
149	100	
167	26.8	21.4 32.0
279	11.6	3.0 4.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.675 min Scan# 21

Delta R.T. -0.019 min

Lab File: BN035932.D

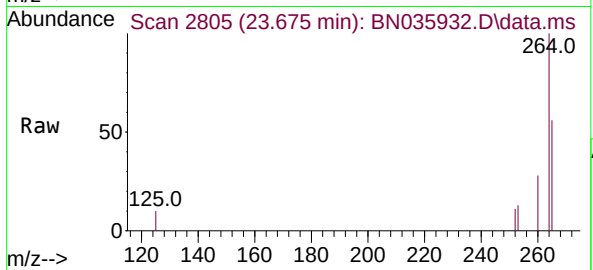
Acq: 15 Jan 2025 14:02

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20250113



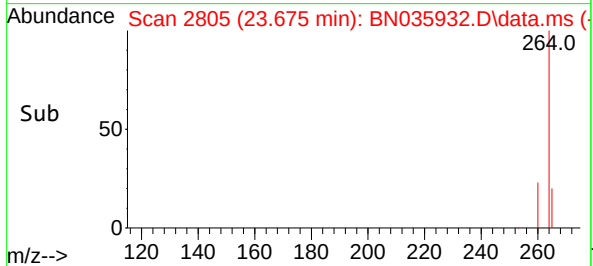
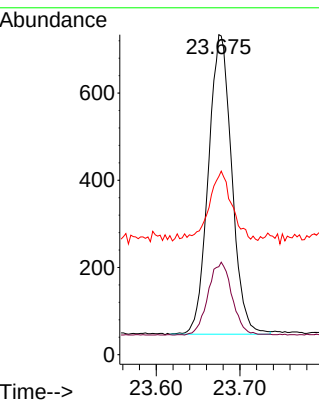
Tgt Ion:264 Resp: 1334

Ion Ratio Lower Upper

264 100

260 27.5 21.7 32.5

265 55.7 33.9 50.9#





CALIBRATION SUMMARY

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Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN010225.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Jan 02 15:39:17 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN035871.D 0.2 =BN035872.D 0.4 =BN035873.D 0.8 =BN035874.D 1.6 =BN035875.D 3.2 =BN035876.D 5.0 =BN035877.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	0.454	0.422	0.373	0.388	0.391	0.377	0.377	0.397	7.52
3)	n-Nitrosodimet...	0.707	0.674	0.676	0.690	0.722	0.690	0.692	0.693	2.45
4) S	2-Fluorophenol	1.031	1.009	0.952	0.958	0.997	0.956	0.968	0.981	3.13
5) S	Phenol-d6	1.351	1.255	1.180	1.197	1.215	1.163	1.170	1.219	5.44
6)	bis(2-Chloroet...	1.001	0.946	0.936	0.913	0.938	0.886	0.879	0.929	4.43
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.346	0.307	0.296	0.302	0.319	0.317	0.330	0.317	5.48
9)	Naphthalene	1.163	1.094	1.086	1.096	1.167	1.113	1.141	1.123	3.00
10)	Hexachlorobuta...	0.368	0.354	0.353	0.363	0.382	0.362	0.369	0.365	2.74
11) SURR2	Methylnaphth...	0.547	0.536	0.527	0.519	0.556	0.524	0.540	0.536	2.50
12)	2-Methylnaphth...	0.691	0.654	0.685	0.680	0.731	0.701	0.722	0.695	3.75
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.164	0.165	0.189	0.189	0.207	0.211	0.220	0.192	11.39
15) S	2-Fluorobiphenyl	1.776	1.675	1.708	1.765	1.823	1.779	1.762	1.755	2.79
16)	Acenaphthylene	1.890	1.766	1.819	1.839	1.962	1.948	1.963	1.884	4.15
17)	Acenaphthene	1.187	1.162	1.198	1.232	1.300	1.275	1.291	1.235	4.43
18)	Fluorene	1.341	1.270	1.307	1.298	1.419	1.444	1.432	1.359	5.28
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.058	0.066	0.067	0.069	0.076	0.076	0.074	0.069	9.51
21)	4-Bromophenyl-...	0.265	0.269	0.268	0.267	0.290	0.283	0.279	0.274	3.47
22)	Hexachlorobenzene	0.393	0.369	0.356	0.362	0.394	0.373	0.371	0.374	3.93
23)	Atrazine	0.169	0.191	0.176	0.171	0.198	0.190	0.193	0.184	6.36
24)	Pentachlorophenol	0.141	0.101	0.118	0.122	0.143	0.148	0.153	0.132	14.40
25)	Phenanthrene	1.131	1.132	1.142	1.144	1.228	1.193	1.200	1.167	3.36
26)	Anthracene	0.996	0.998	1.008	1.033	1.137	1.132	1.130	1.062	6.34
27) SURR	Fluoranthene-d10	0.988	0.952	0.978	0.959	1.028	1.010	1.035	0.993	3.28
28)	Fluoranthene	1.268	1.253	1.330	1.312	1.441	1.446	1.475	1.361	6.71
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.606	1.620	1.571	1.612	1.711	1.621	1.627	1.624	2.63
31) S	Terphenyl-d14	0.814	0.813	0.790	0.777	0.828	0.776	0.781	0.797	2.64
32)	Benzo(a)anthra...	1.379	1.382	1.344	1.407	1.461	1.427	1.466	1.410	3.19
33)	Chrysene	1.484	1.458	1.441	1.451	1.541	1.478	1.471	1.475	2.24
34)	Bis(2-ethylhex...	0.691	0.583	0.582	0.541	0.569	0.519	0.530	0.574	10.05
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN010225.M

36)	Indeno(1,2,3-c...	1.428	1.461	1.414	1.578	1.697	1.712	1.751	1.577	9.15
37)	Benzo(b)fluora...	1.337	1.304	1.294	1.351	1.466	1.420	1.447	1.374	5.06
38)	Benzo(k)fluora...	1.279	1.254	1.251	1.344	1.469	1.442	1.482	1.360	7.55
39) C	Benzo(a)pyrene	1.099	1.181	1.086	1.163	1.270	1.244	1.284	1.190	6.71
40)	Dibenzo(a,h)an...	1.145	1.152	1.106	1.251	1.363	1.365	1.402	1.255	9.75
41)	Benzo(g,h,i)pe...	1.335	1.316	1.245	1.407	1.490	1.501	1.530	1.403	7.72

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035871.D
 Acq On : 02 Jan 2025 11:28
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Jan 02 15:48:52 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

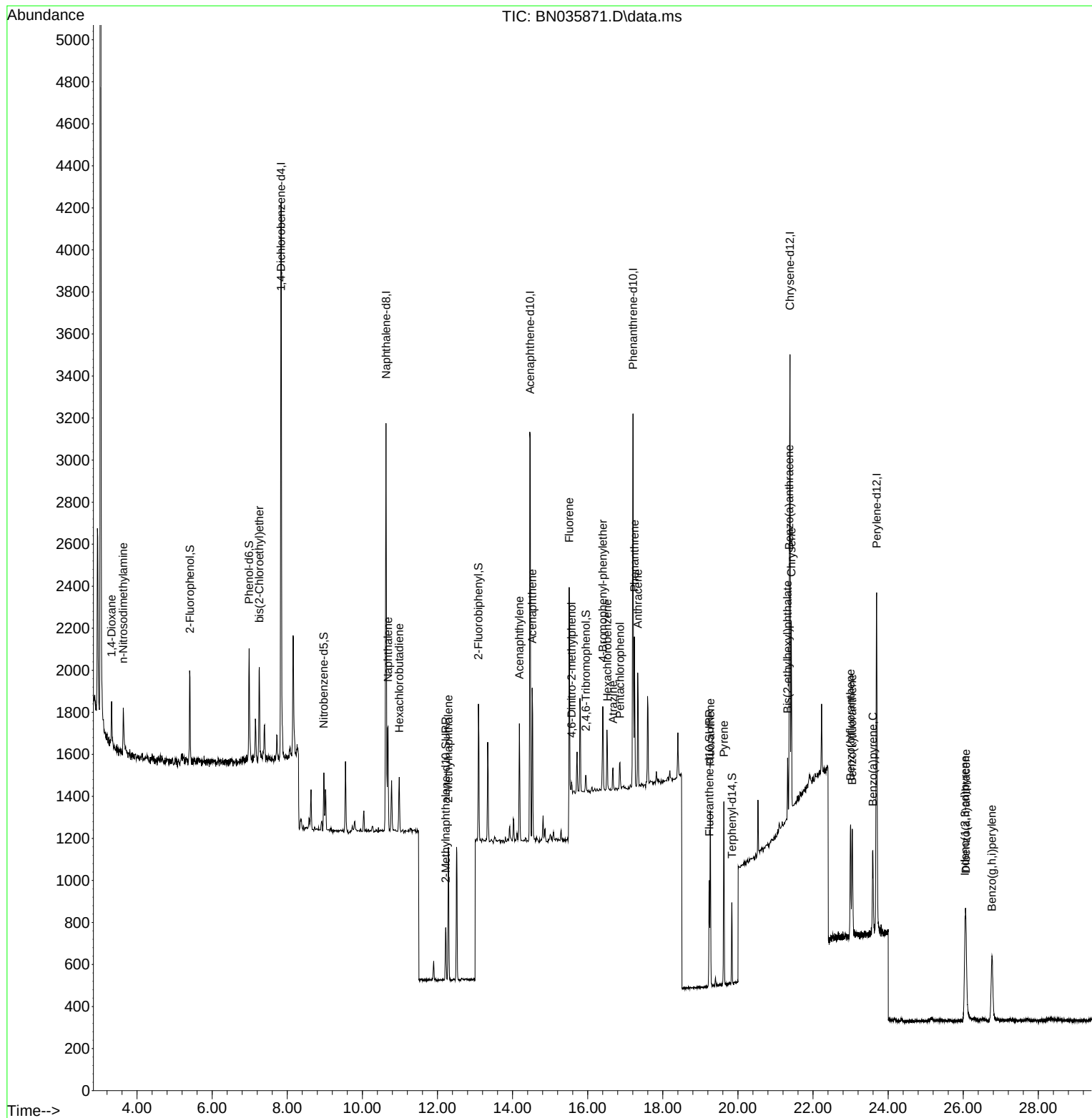
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.836	152	1199	0.400	ng	0.00
7) Naphthalene-d8	10.629	136	2391	0.400	ng	0.00
13) Acenaphthene-d10	14.470	164	1196	0.400	ng	0.00
19) Phenanthrene-d10	17.208	188	2268	0.400	ng	0.00
29) Chrysene-d12	21.386	240	1828	0.400	ng	0.00
35) Perylene-d12	23.694	264	2148	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.409	112	309	0.105	ng	0.00
5) Phenol-d6	6.983	99	405	0.111	ng	0.00
8) Nitrobenzene-d5	8.974	82	207	0.109	ng	0.00
11) 2-Methylnaphthalene-d10	12.220	152	327	0.102	ng	0.00
14) 2,4,6-Tribromophenol	15.954	330	49	0.085	ng	0.00
15) 2-Fluorobiphenyl	13.091	172	531	0.101	ng	0.00
27) Fluoranthene-d10	19.236	212	560	0.099	ng	0.00
31) Terphenyl-d14	19.840	244	372	0.102	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.322	88	136	0.114	ng	# 93
3) n-Nitrosodimethylamine	3.632	42	212	0.102	ng	# 84
6) bis(2-Chloroethyl)ether	7.258	93	300	0.108	ng	95
9) Naphthalene	10.683	128	695	0.104	ng	# 81
10) Hexachlorobutadiene	10.981	225	220	0.101	ng	# 98
12) 2-Methylnaphthalene	12.291	142	413	0.099	ng	96
16) Acenaphthylene	14.182	152	565	0.100	ng	98
17) Acenaphthene	14.524	154	355	0.096	ng	97
18) Fluorene	15.507	166	401	0.099	ng	96
20) 4,6-Dinitro-2-methylph...	15.569	198	33	0.084	ng	# 33
21) 4-Bromophenyl-phenylether	16.401	248	150	0.096	ng	91
22) Hexachlorobenzene	16.525	284	223	0.105	ng	# 90
23) Atrazine	16.674	200	96	0.092	ng	# 78
24) Pentachlorophenol	16.860	266	80	0.107	ng	96
25) Phenanthrene	17.245	178	641	0.097	ng	94
26) Anthracene	17.332	178	565	0.094	ng	97
28) Fluoranthene	19.264	202	719	0.093	ng	98
30) Pyrene	19.626	202	734	0.099	ng	98
32) Benzo(a)anthracene	21.368	228	630	0.098	ng	# 87
33) Chrysene	21.422	228	678	0.101	ng	# 90
34) Bis(2-ethylhexyl)phtha...	21.324	149	316	0.121	ng	94
36) Indeno(1,2,3-cd)pyrene	26.047	276	767	0.091	ng	96
37) Benzo(b)fluoranthene	23.001	252	718	0.097	ng	# 69
38) Benzo(k)fluoranthene	23.045	252	687	0.094	ng	# 68
39) Benzo(a)pyrene	23.591	252	590	0.092	ng	# 61
40) Dibenzo(a,h)anthracene	26.071	278	615	0.091	ng	# 65
41) Benzo(g,h,i)perylene	26.764	276	717	0.095	ng	# 71

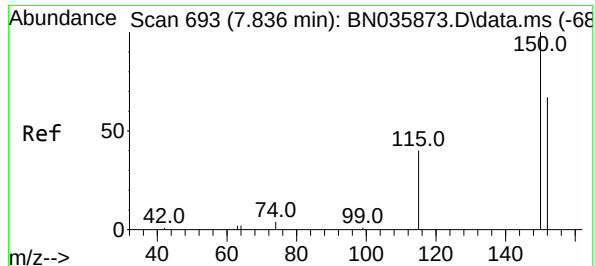
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035871.D
Acq On : 02 Jan 2025 11:28
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Jan 02 15:48:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

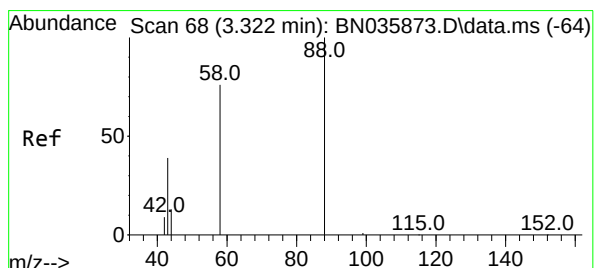
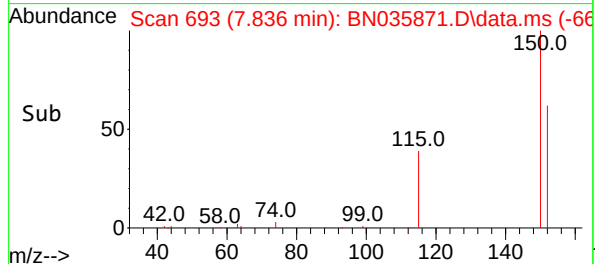
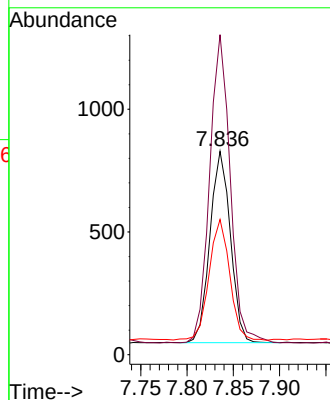
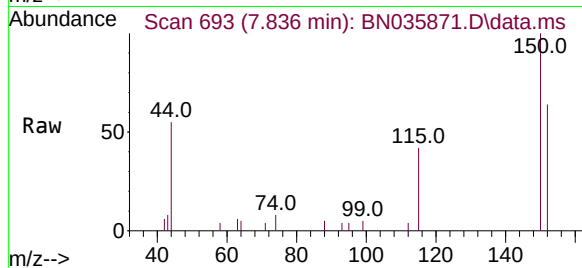




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.836 min Scan# 693
Delta R.T. -0.000 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

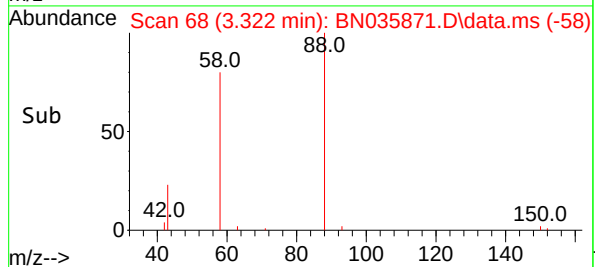
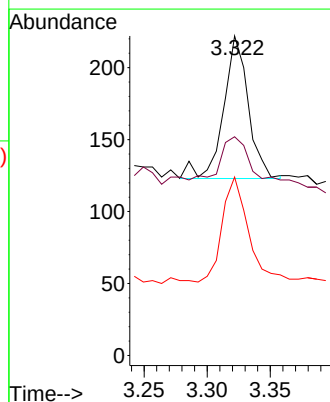
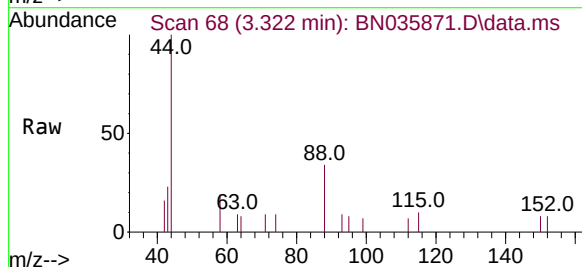
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BNA_N
ClientSampleId :
SSTDICC0.1

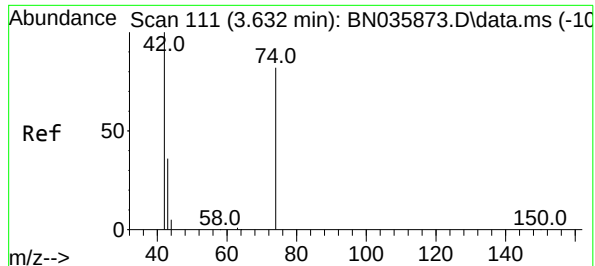
Tgt Ion: 152 Resp: 1199
Ion Ratio Lower Upper
152 100
150 157.3 117.8 176.6
115 66.5 51.0 76.4



#2
1,4-Dioxane
Concen: 0.114 ng
RT: 3.322 min Scan# 68
Delta R.T. 0.000 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion: 88 Resp: 136
Ion Ratio Lower Upper
88 100
43 29.4 32.7 49.1#
58 77.2 63.0 94.4

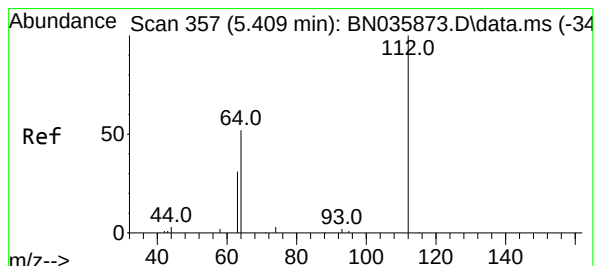
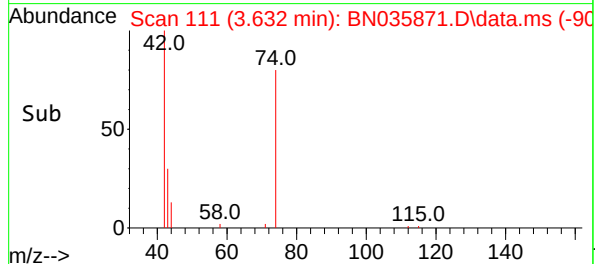
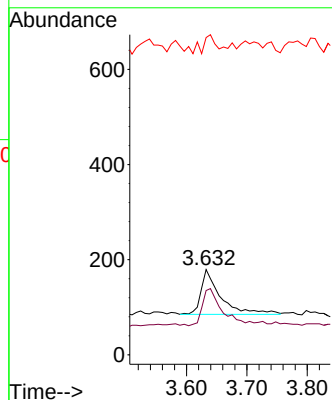
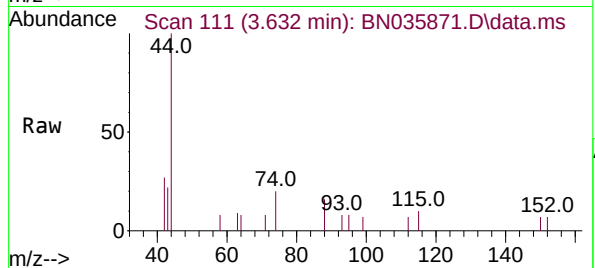




#3
n-Nitrosodimethylamine
Concen: 0.102 ng
RT: 3.632 min Scan# 111
Delta R.T. 0.000 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

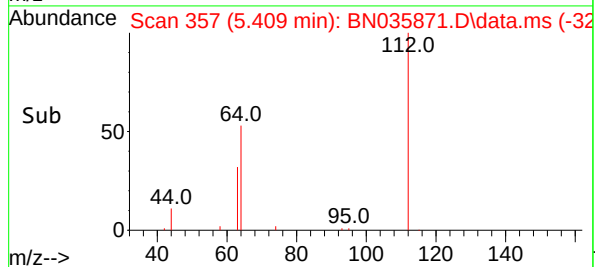
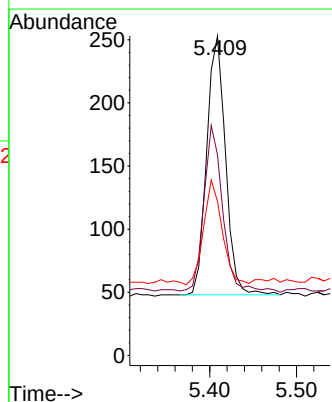
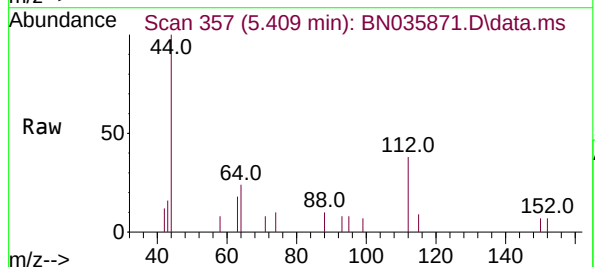
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BNA_N
ClientSampleId :
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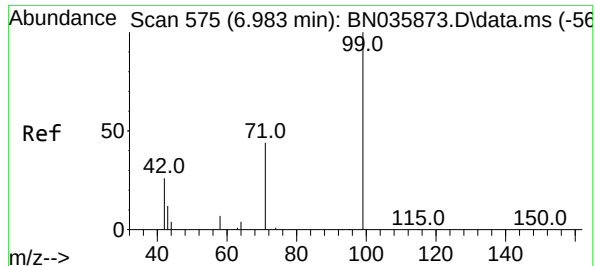
Tgt Ion: 42 Resp: 212
Ion Ratio Lower Upper
42 100
74 88.7 62.2 93.2
44 26.4 7.1 10.7#



#4
2-Fluorophenol
Concen: 0.105 ng
RT: 5.409 min Scan# 357
Delta R.T. 0.000 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion: 112 Resp: 309
Ion Ratio Lower Upper
112 100
64 65.0 48.2 72.2
63 40.1 30.0 45.0

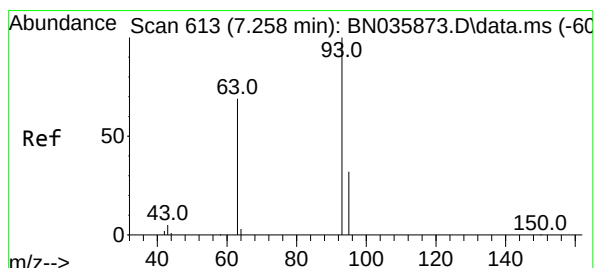
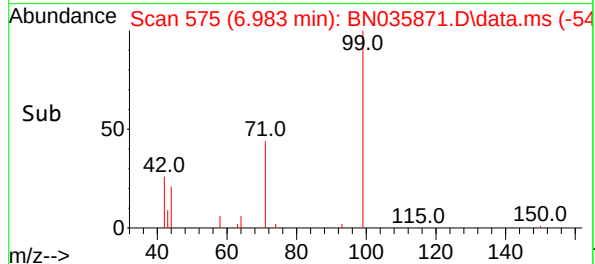
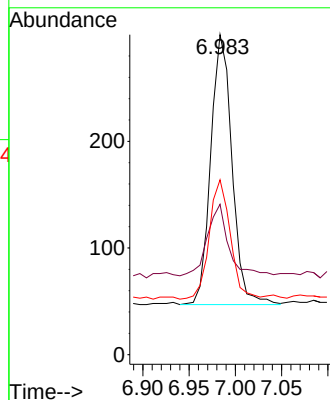
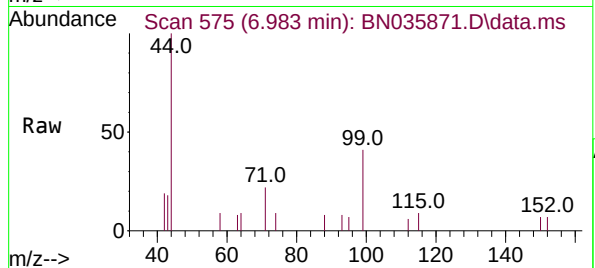




#5
Phenol-d6
Concen: 0.111 ng
RT: 6.983 min Scan# 575
Delta R.T. 0.000 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

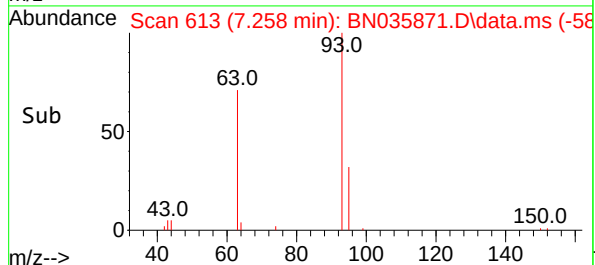
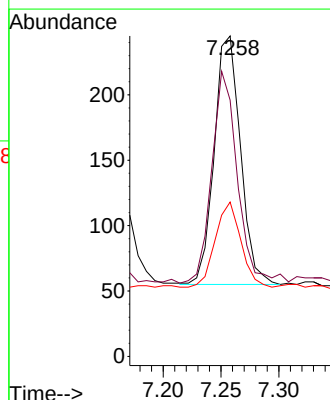
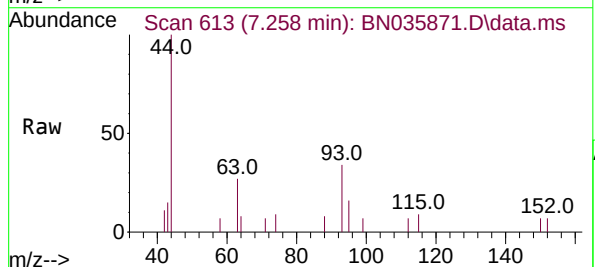
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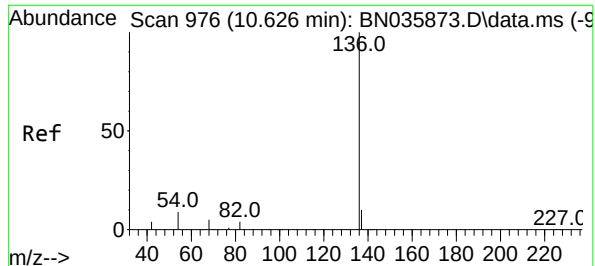
Tgt Ion: 99 Resp: 405
Ion Ratio Lower Upper
99 100
42 26.9 23.5 35.3
71 44.4 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 7.258 min Scan# 613
Delta R.T. 0.000 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion: 93 Resp: 300
Ion Ratio Lower Upper
93 100
63 82.3 62.0 93.0
95 33.3 25.5 38.3

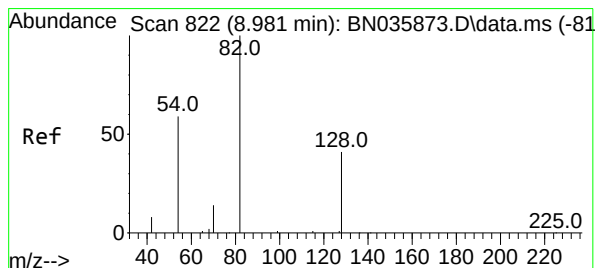
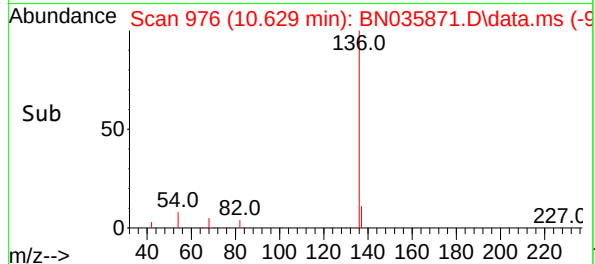
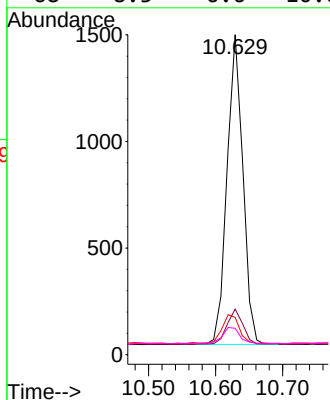
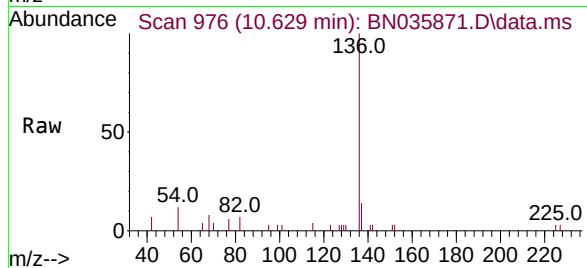




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.629 min Scan# 91
Delta R.T. 0.004 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

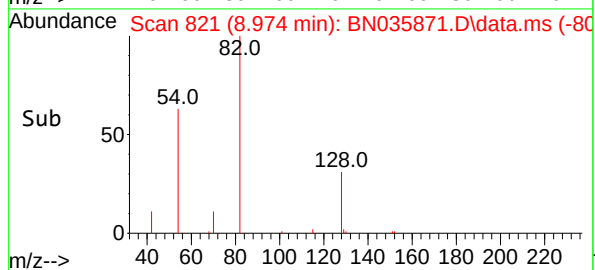
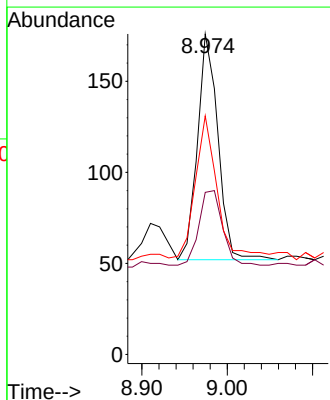
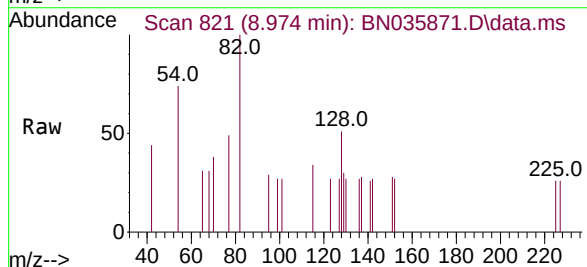
Instrument :
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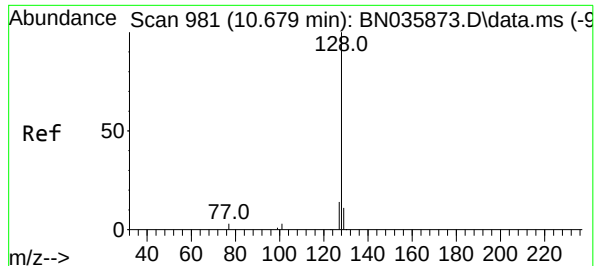
Tgt Ion:	136	Resp:	2391
Ion	Ratio	Lower	Upper
136	100		
137	14.3	10.6	15.8
54	11.7	9.8	14.6
68	8.3	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.109 ng
RT: 8.974 min Scan# 821
Delta R.T. -0.007 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:	82	Resp:	207
Ion	Ratio	Lower	Upper
82	100		
128	50.6	36.9	55.3
54	74.4	50.4	75.6

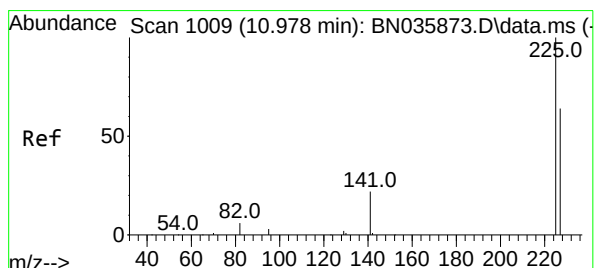
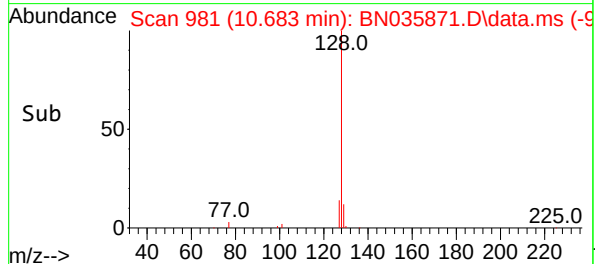
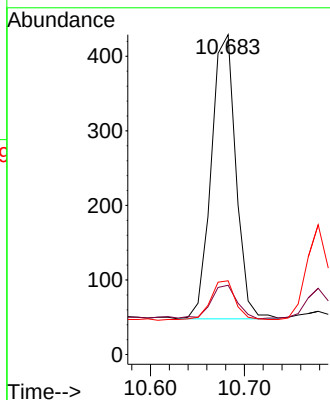
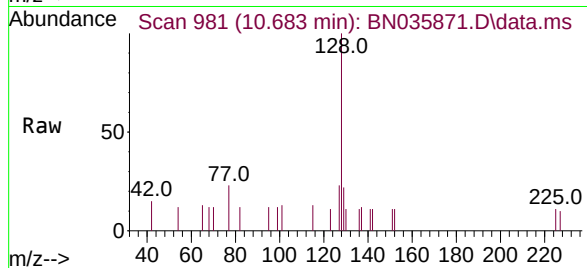




#9
Naphthalene
Concen: 0.104 ng
RT: 10.683 min Scan# 981
Delta R.T. 0.004 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

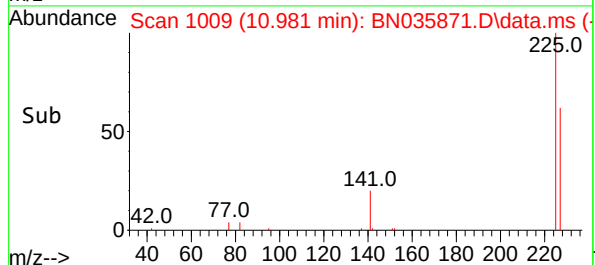
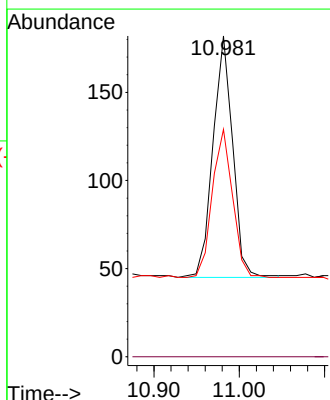
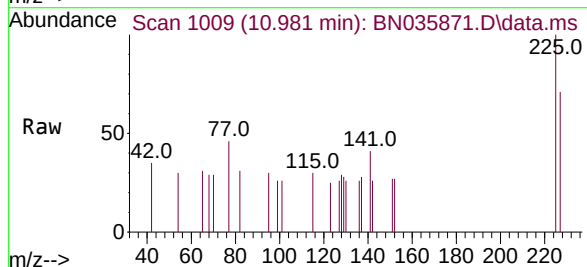
Instrument :
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ClientSampleId :
SSTDICC0.1

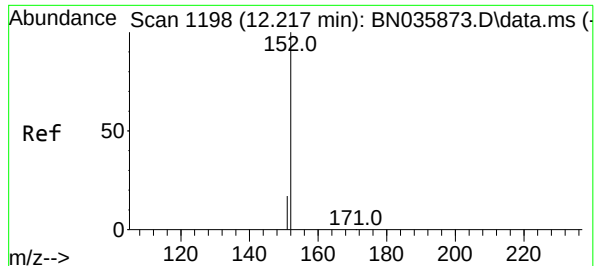
Tgt Ion:128 Resp: 695
Ion Ratio Lower Upper
128 100
129 21.7 10.6 16.0#
127 23.1 12.8 19.2#



#10
Hexachlorobutadiene
Concen: 0.101 ng
RT: 10.981 min Scan# 1009
Delta R.T. 0.004 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:225 Resp: 220
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.7 51.5 77.3

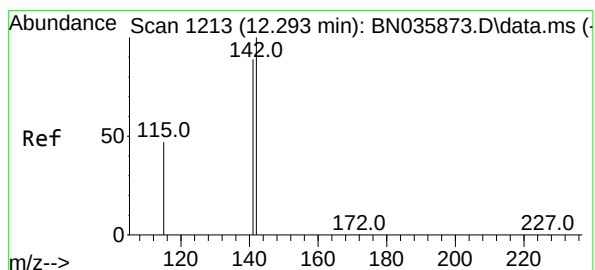
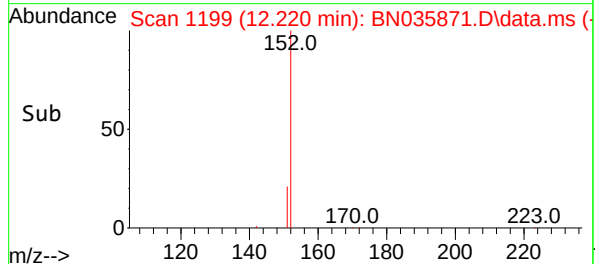
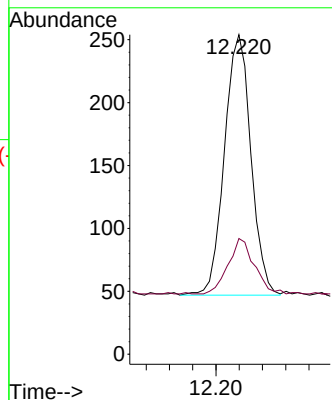
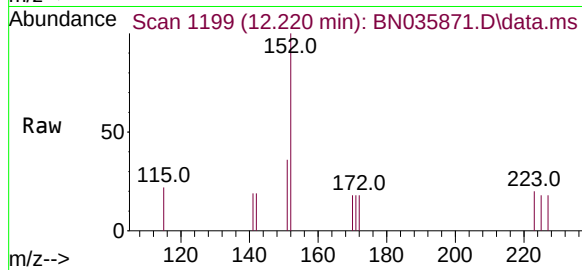




#11
2-Methylnaphthalene-d10
Concen: 0.102 ng
RT: 12.220 min Scan# 1198
Delta R.T. 0.003 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

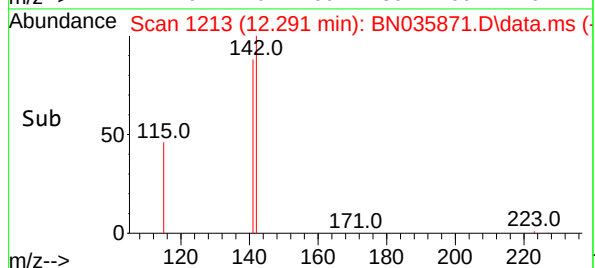
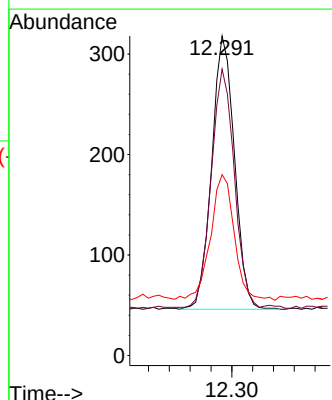
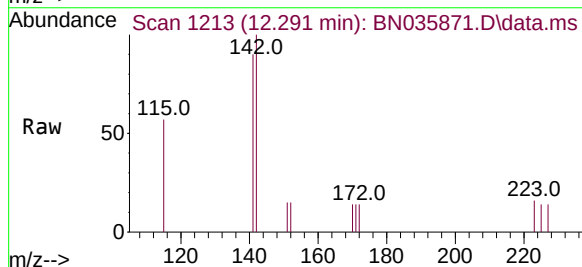
Instrument :
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ClientSampleId :
SSTDICC0.1

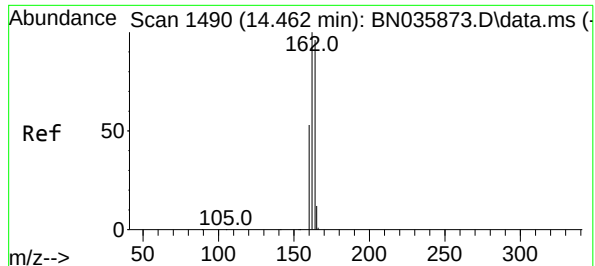
Tgt Ion:152 Resp: 327
Ion Ratio Lower Upper
152 100
151 21.1 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.099 ng
RT: 12.291 min Scan# 1213
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:142 Resp: 413
Ion Ratio Lower Upper
142 100
141 89.6 71.9 107.9
115 56.6 39.6 59.4

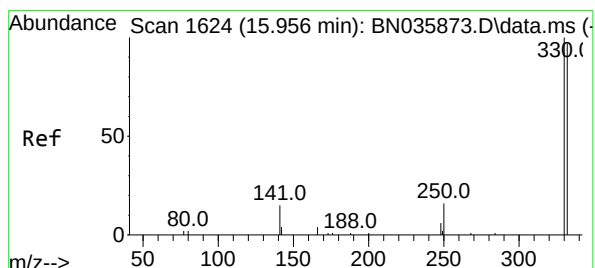
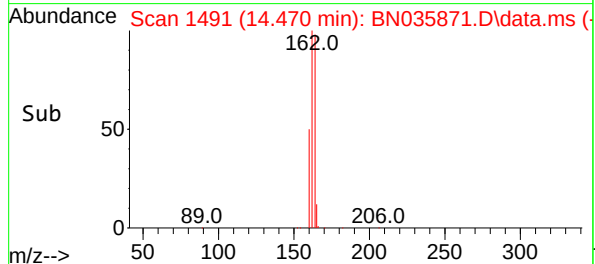
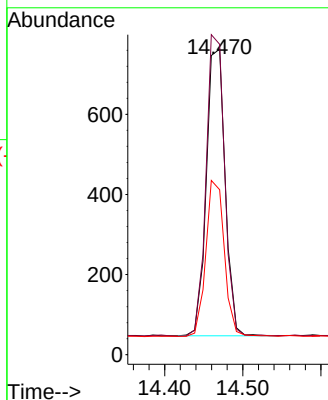
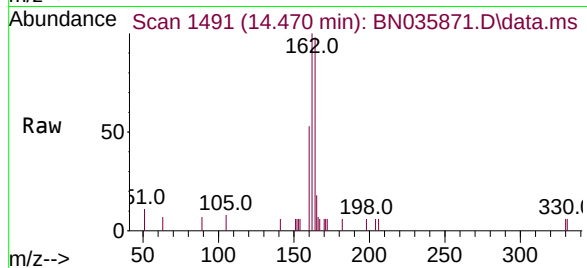




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.470 min Scan# 1491
Delta R.T. 0.009 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

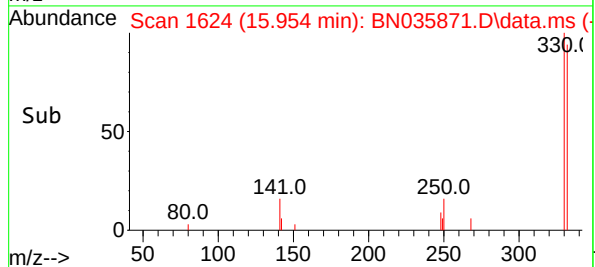
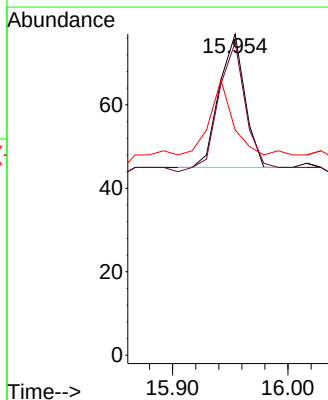
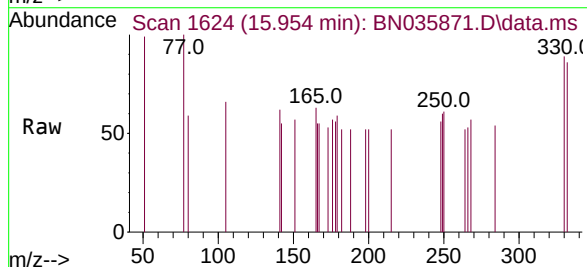
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

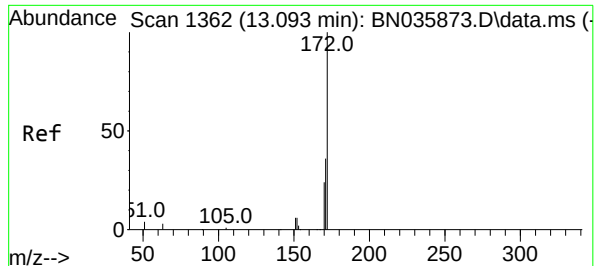
Tgt Ion:164 Resp: 1196
Ion Ratio Lower Upper
164 100
162 101.6 83.1 124.7
160 54.0 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 0.085 ng
RT: 15.954 min Scan# 1624
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:330 Resp: 49
Ion Ratio Lower Upper
330 100
332 106.1 77.2 115.8
141 71.4 31.6 47.4#

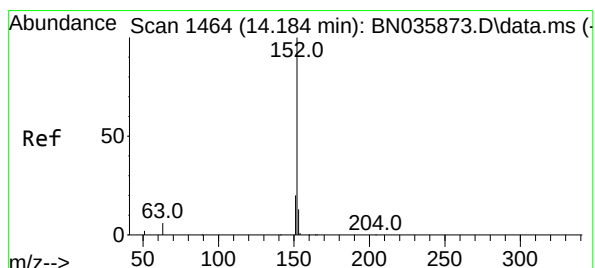
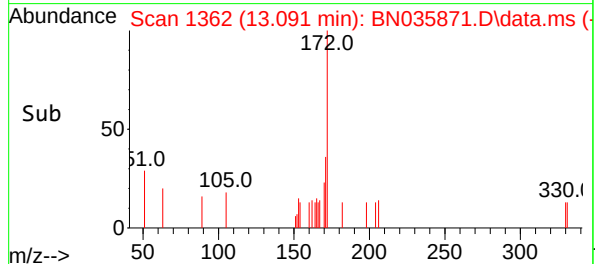
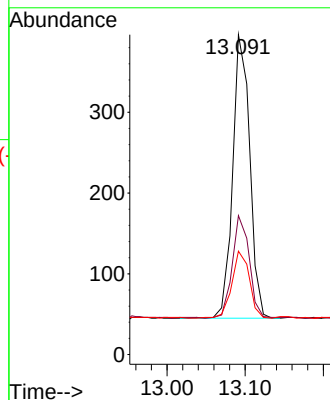
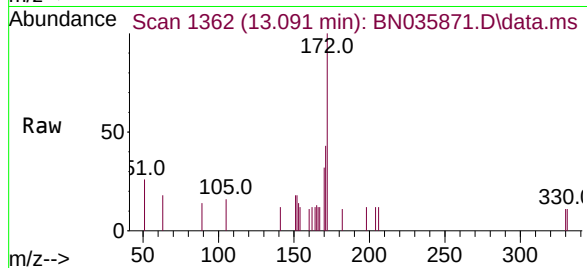




#15
2-Fluorobiphenyl
Concen: 0.101 ng
RT: 13.091 min Scan# 1362
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

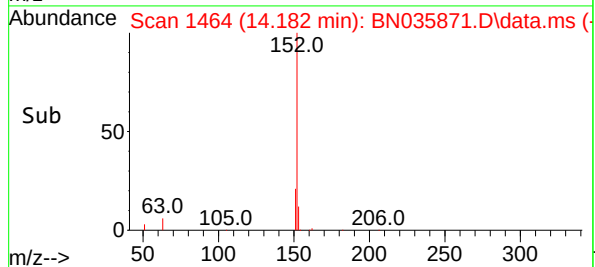
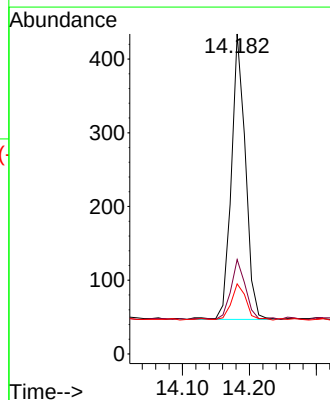
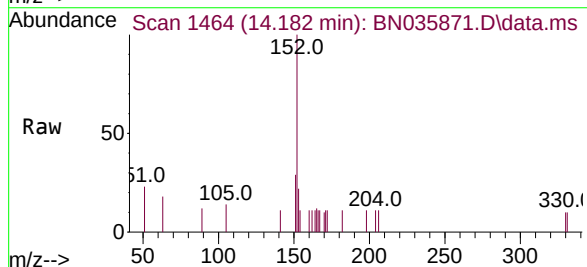
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

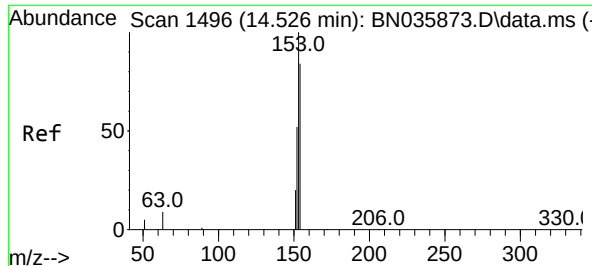
Tgt Ion:172	Resp:	531
Ion	Ratio	Lower Upper
172	100	
171	43.4	30.5 45.7
170	32.3	20.8 31.2#



#16
Acenaphthylene
Concen: 0.100 ng
RT: 14.182 min Scan# 1464
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:152	Resp:	565
Ion	Ratio	Lower Upper
152	100	
151	21.8	16.3 24.5
153	13.3	10.6 15.8

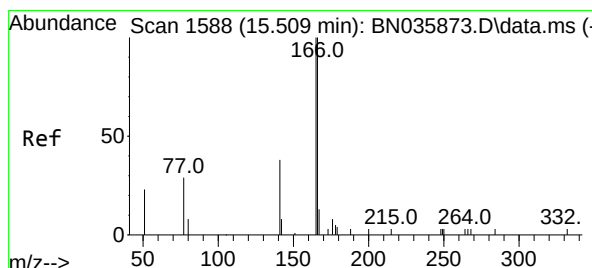
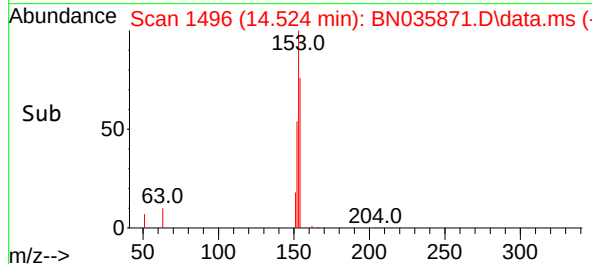
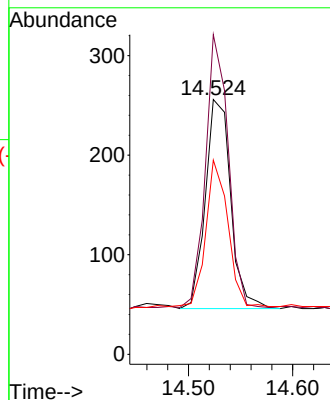
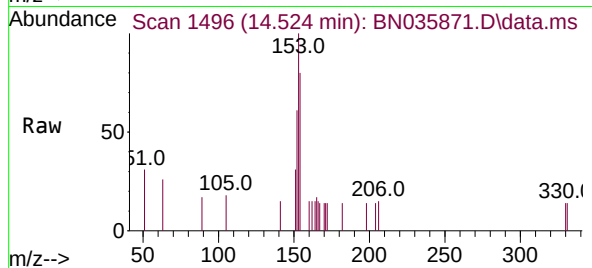




#17
Acenaphthene
Concen: 0.096 ng
RT: 14.524 min Scan# 1496
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

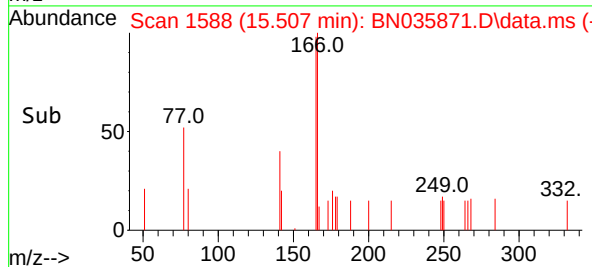
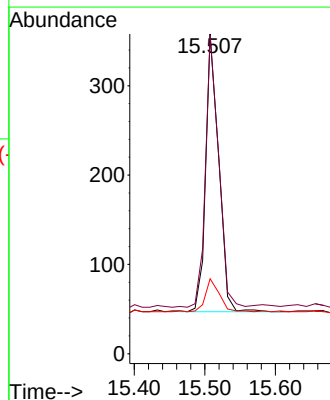
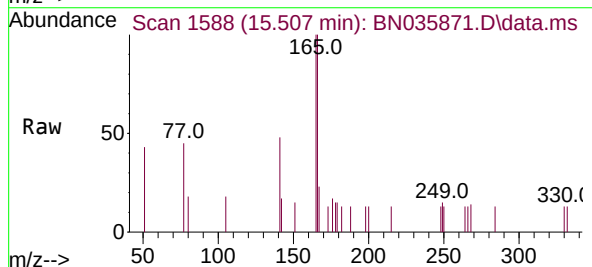
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

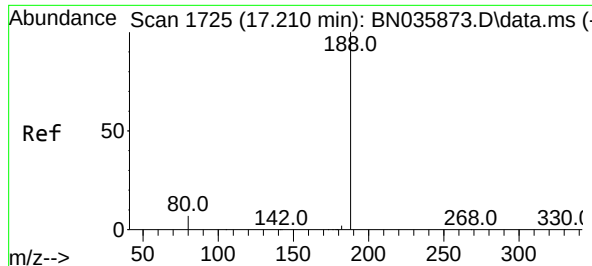
Tgt Ion	154	Resp:	355
Ion Ratio	Lower	Upper	
154	100		
153	116.6	90.5	135.7
152	62.8	48.6	73.0



#18
Fluorene
Concen: 0.099 ng
RT: 15.507 min Scan# 1588
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion	166	Resp:	401
Ion Ratio	Lower	Upper	
166	100		
165	96.5	80.6	120.8
167	12.5	11.4	17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.208 min Scan# 11

Delta R.T. -0.002 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

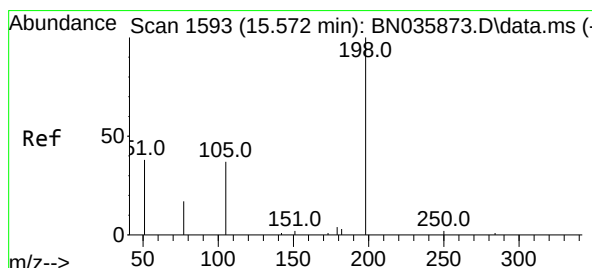
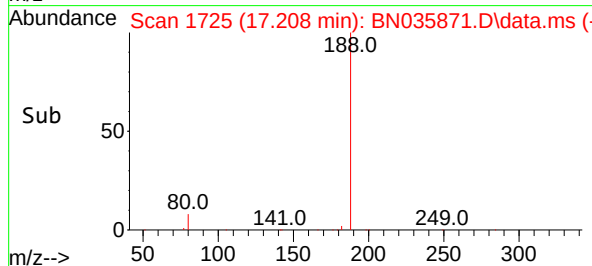
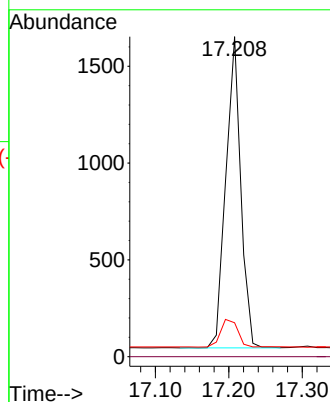
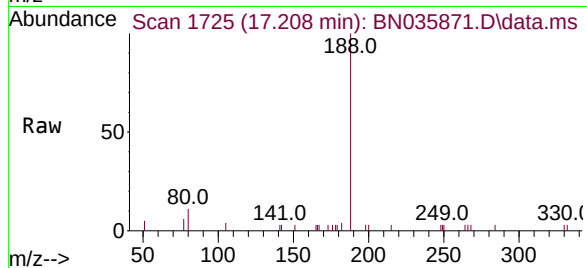
Tgt Ion:188 Resp: 2268

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.6 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.084 ng

RT: 15.569 min Scan# 1593

Delta R.T. -0.002 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

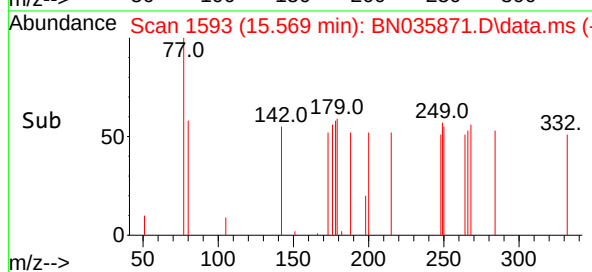
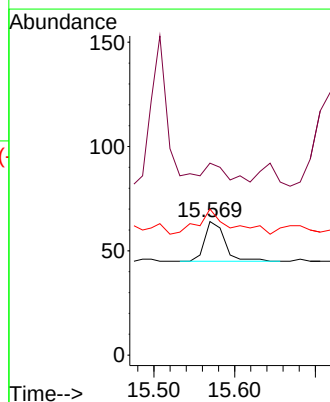
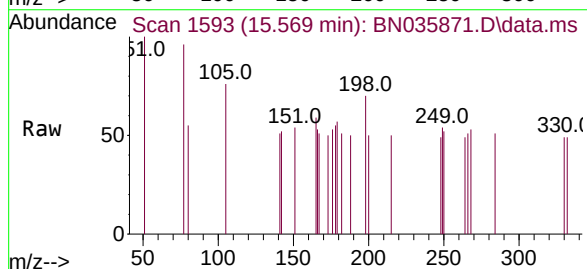
Tgt Ion:198 Resp: 33

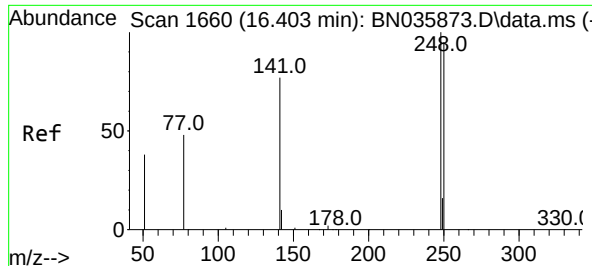
Ion Ratio Lower Upper

198 100

51 143.8 64.3 96.5#

105 109.4 50.0 75.0#

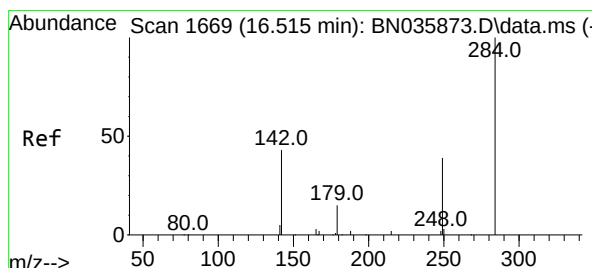
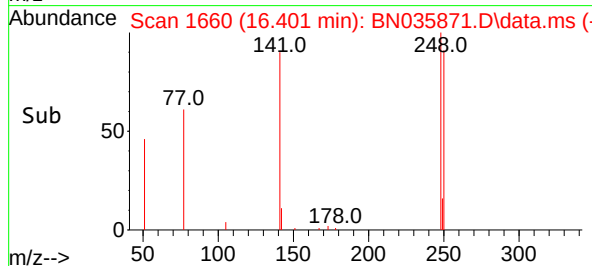
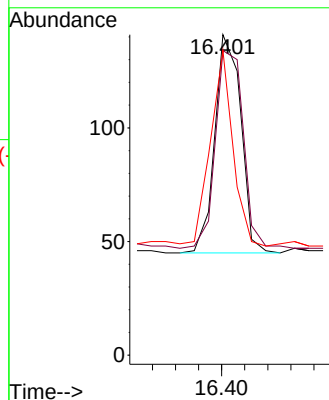
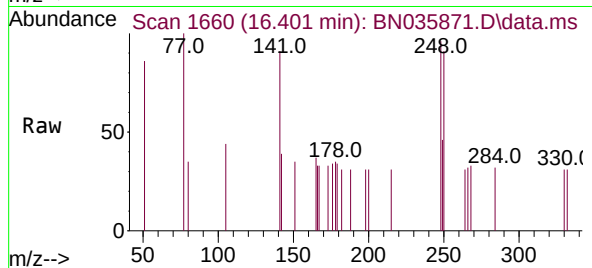




#21
4-Bromophenyl-phenylether
Concen: 0.096 ng
RT: 16.401 min Scan# 1670
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

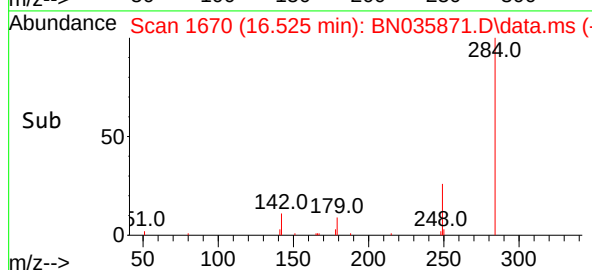
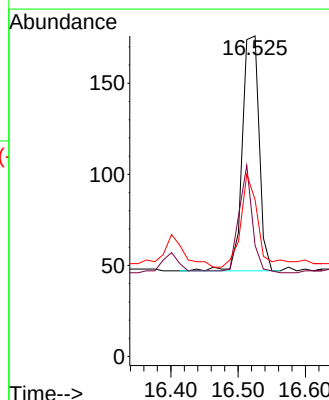
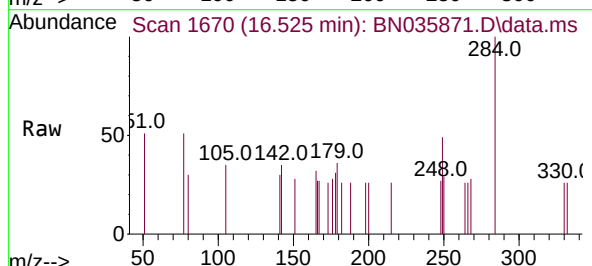
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

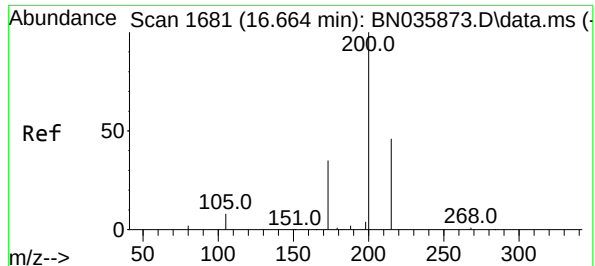
Tgt Ion:248	Resp:	150
Ion Ratio	Lower	Upper
248	100	
250	95.0	76.8 115.2
141	95.0	63.6 95.4



#22
Hexachlorobenzene
Concen: 0.105 ng
RT: 16.525 min Scan# 1670
Delta R.T. 0.010 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:284	Resp:	223
Ion Ratio	Lower	Upper
284	100	
142	38.1	31.4 47.0
249	45.7	27.8 41.8

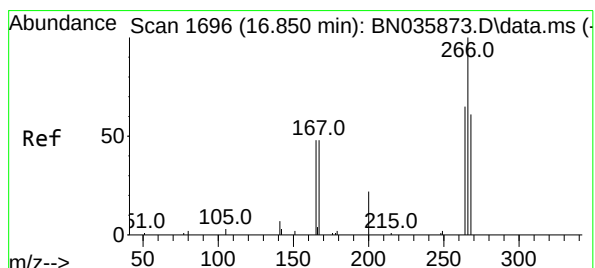
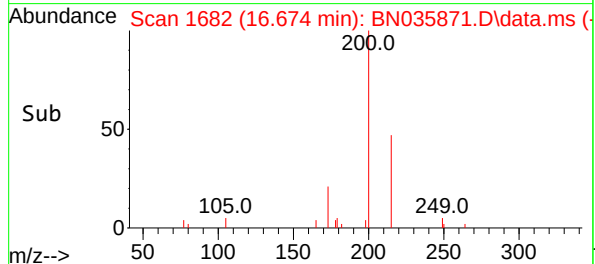
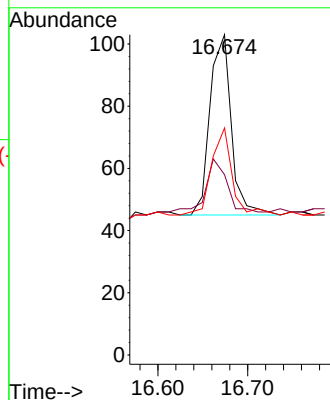
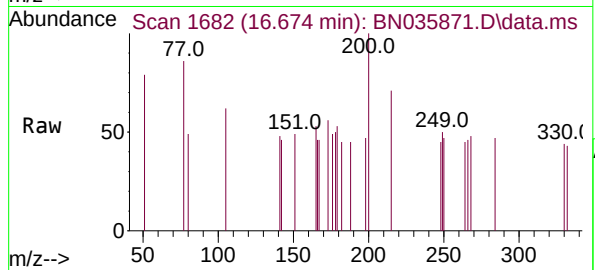




#23
Atrazine
Concen: 0.092 ng
RT: 16.674 min Scan# 1681
Delta R.T. 0.010 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

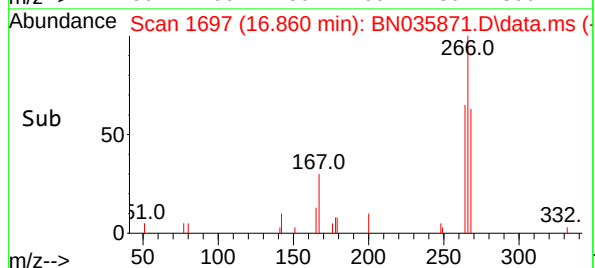
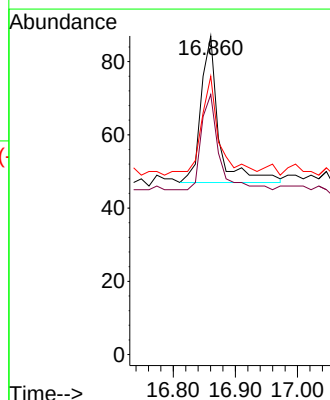
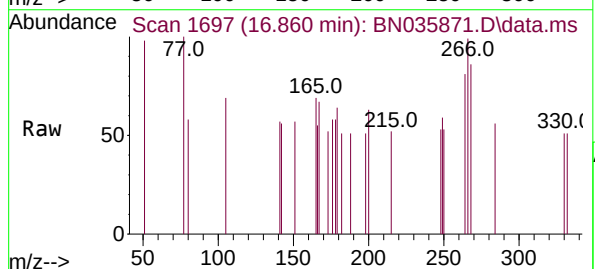
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

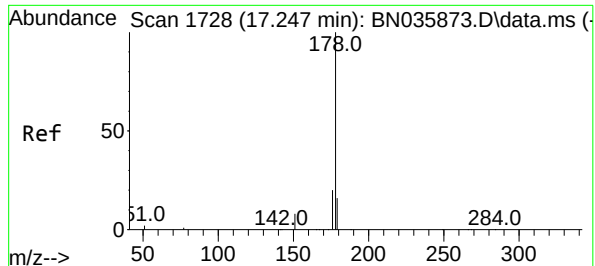
Tgt Ion:200 Resp: 96
Ion Ratio Lower Upper
200 100
173 56.3 35.4 53.0#
215 70.9 42.4 63.6#



#24
Pentachlorophenol
Concen: 0.107 ng
RT: 16.860 min Scan# 1697
Delta R.T. 0.010 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:266 Resp: 80
Ion Ratio Lower Upper
266 100
264 63.7 49.9 74.9
268 67.5 50.2 75.2

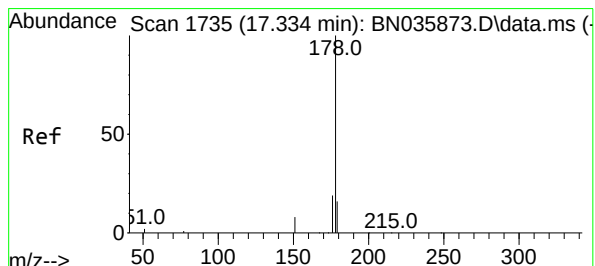
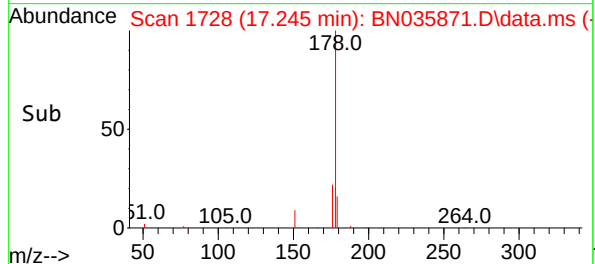
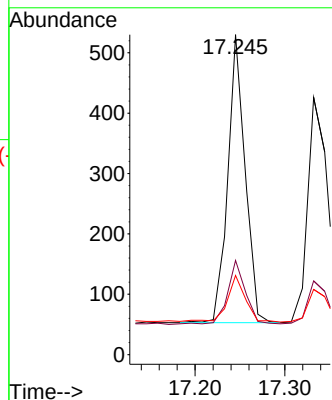
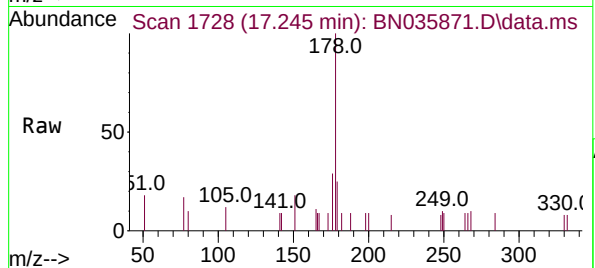




#25
Phenanthrene
Concen: 0.097 ng
RT: 17.245 min Scan# 1728
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

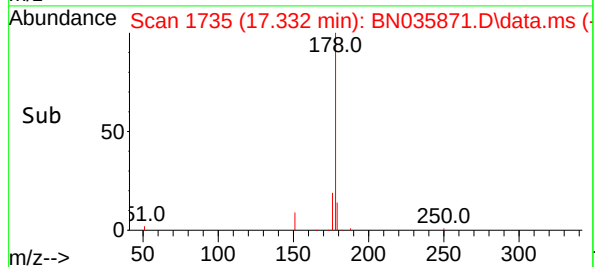
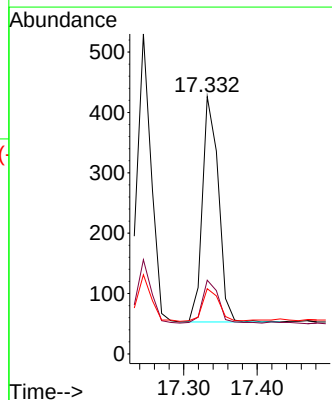
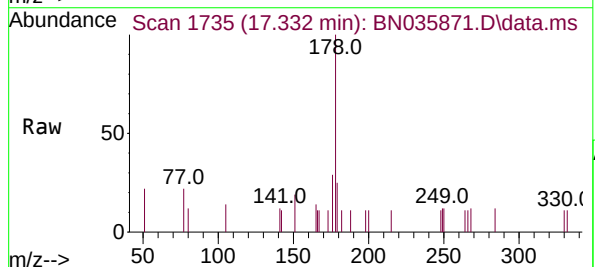
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

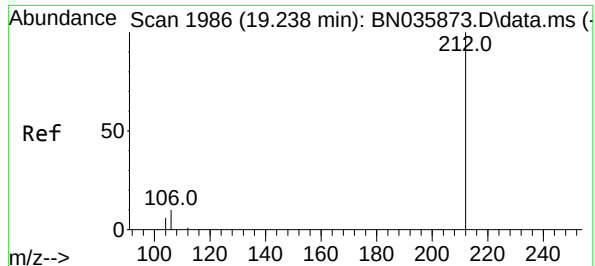
Tgt Ion:178 Resp: 641
Ion Ratio Lower Upper
178 100
176 23.2 15.9 23.9
179 17.8 12.9 19.3



#26
Anthracene
Concen: 0.094 ng
RT: 17.332 min Scan# 1735
Delta R.T. -0.002 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:178 Resp: 565
Ion Ratio Lower Upper
178 100
176 20.4 15.0 22.6
179 15.0 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.099 ng

RT: 19.236 min Scan# 1986

Delta R.T. -0.002 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

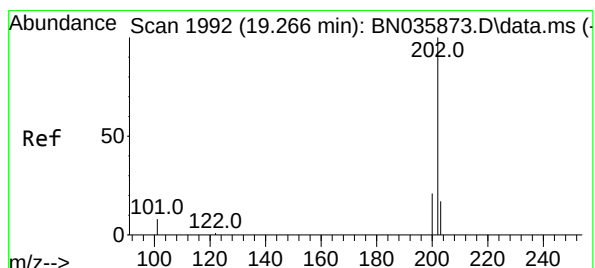
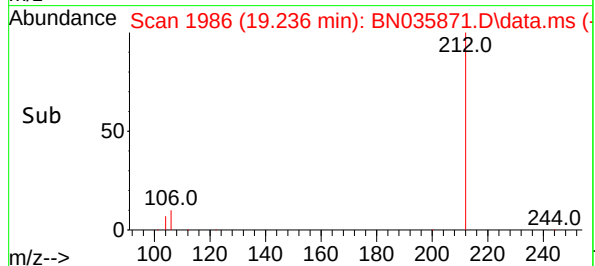
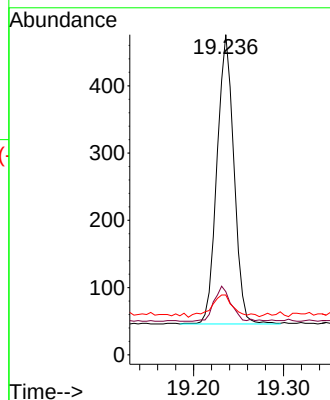
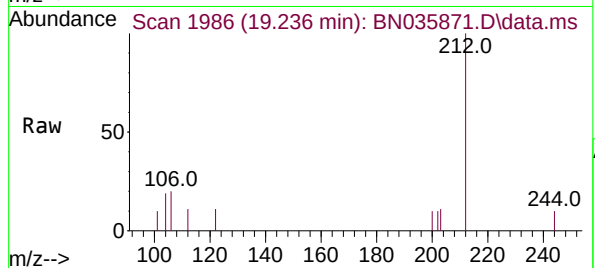
Tgt Ion:212 Resp: 560

Ion Ratio Lower Upper

212 100

106 11.8 9.0 13.6

104 10.4 5.4 8.2#



#28

Fluoranthene

Concen: 0.093 ng

RT: 19.264 min Scan# 1992

Delta R.T. -0.002 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

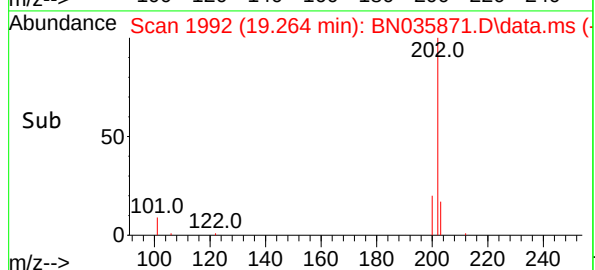
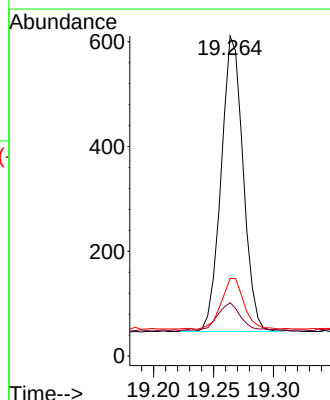
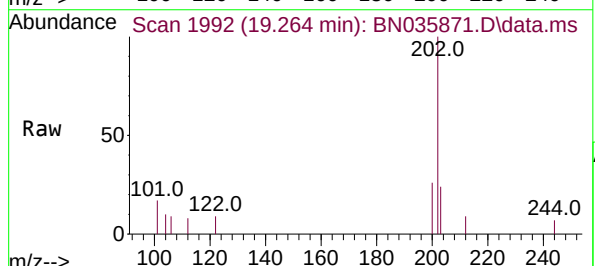
Tgt Ion:202 Resp: 719

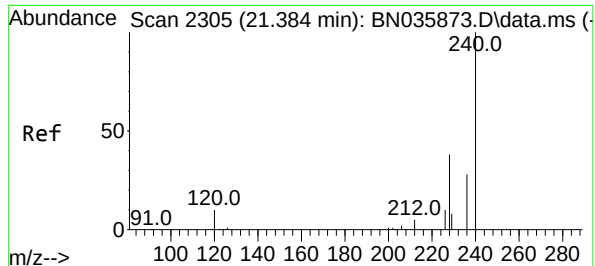
Ion Ratio Lower Upper

202 100

101 10.0 7.2 10.8

203 18.1 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.386 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

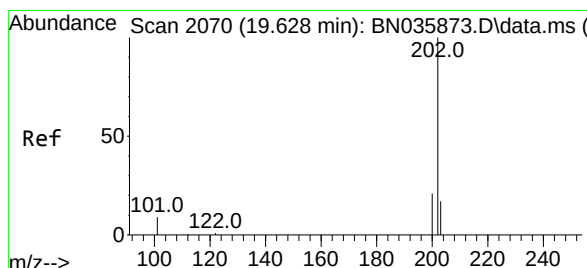
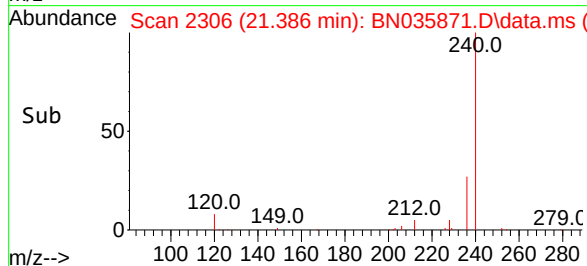
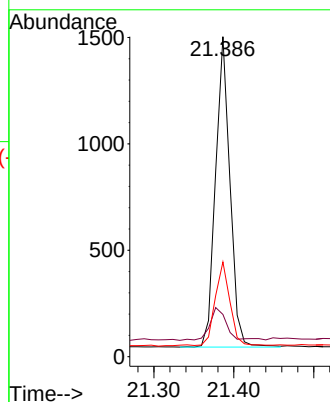
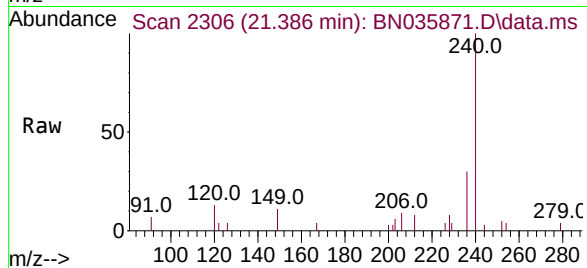
Tgt Ion:240 Resp: 1828

Ion Ratio Lower Upper

240 100

120 13.2 11.1 16.7

236 29.6 24.6 36.8



#30

Pyrene

Concen: 0.099 ng

RT: 19.626 min Scan# 2070

Delta R.T. -0.002 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

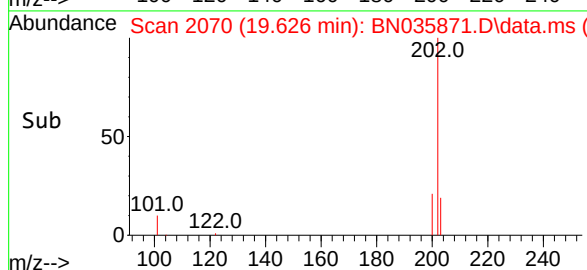
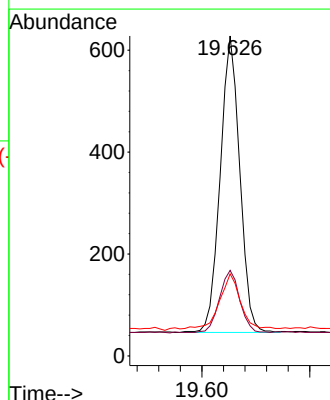
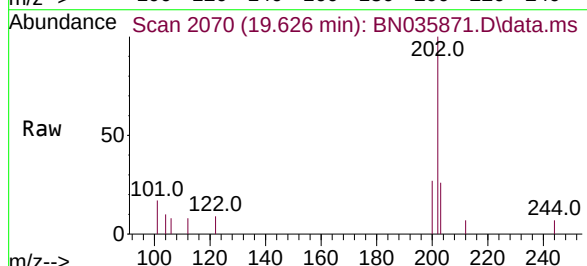
Tgt Ion:202 Resp: 734

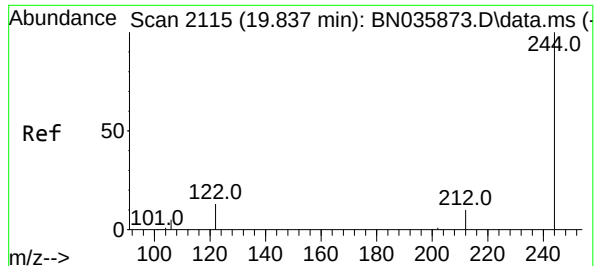
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 20.2 14.6 22.0

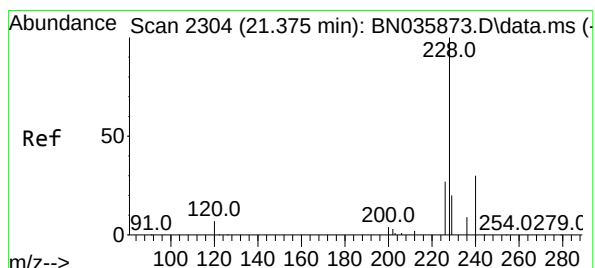
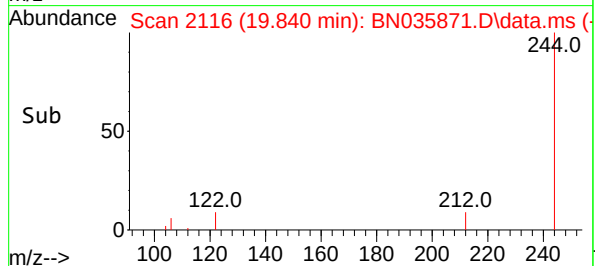
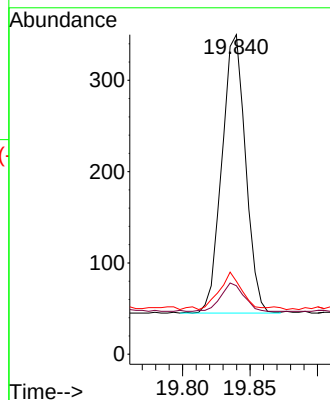
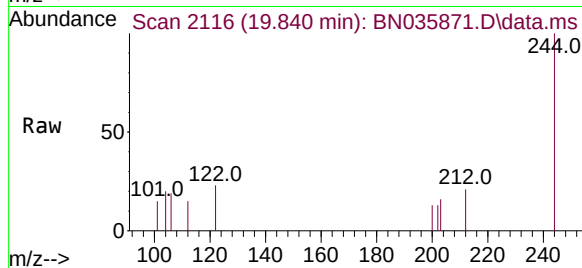




#31
Terphenyl-d14
Concen: 0.102 ng
RT: 19.840 min Scan# 2115
Delta R.T. 0.003 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

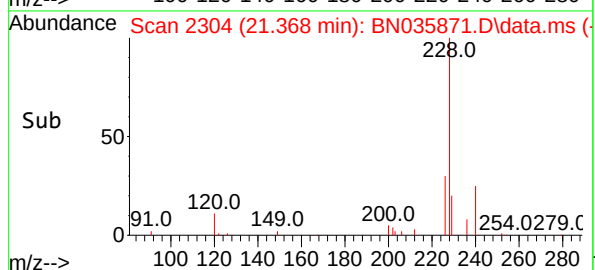
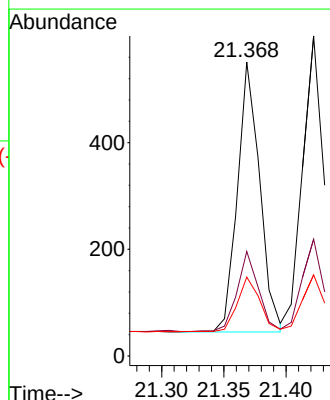
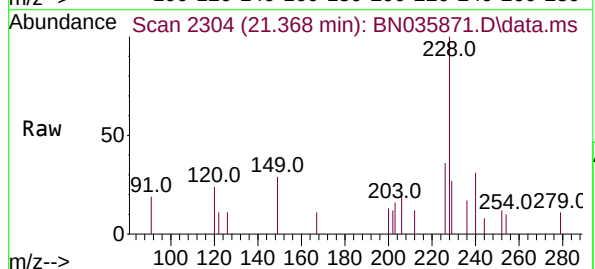
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

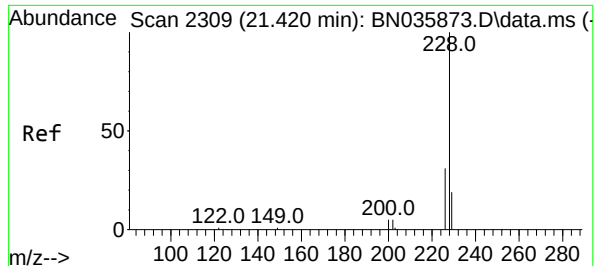
Tgt Ion:244 Resp: 372
Ion Ratio Lower Upper
244 100
212 21.4 10.1 15.1#
122 22.9 12.2 18.4#



#32
Benzo(a)anthracene
Concen: 0.098 ng
RT: 21.368 min Scan# 2304
Delta R.T. -0.006 min
Lab File: BN035871.D
Acq: 02 Jan 2025 11:28

Tgt Ion:228 Resp: 630
Ion Ratio Lower Upper
228 100
226 35.6 22.7 34.1#
229 26.9 17.1 25.7#





#33

Chrysene

Concen: 0.101 ng

RT: 21.422 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

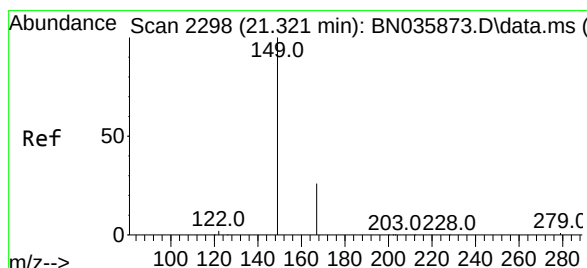
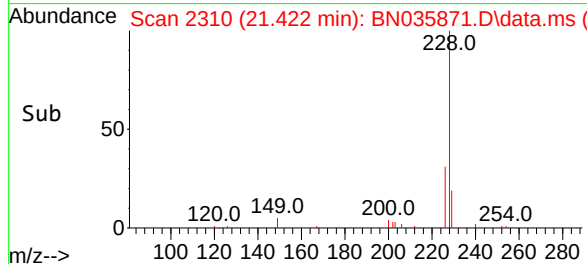
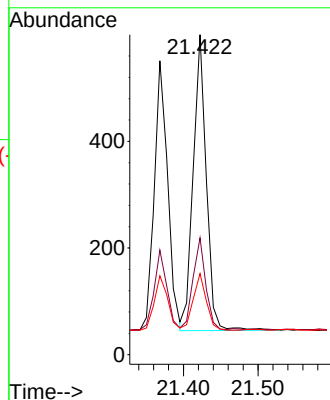
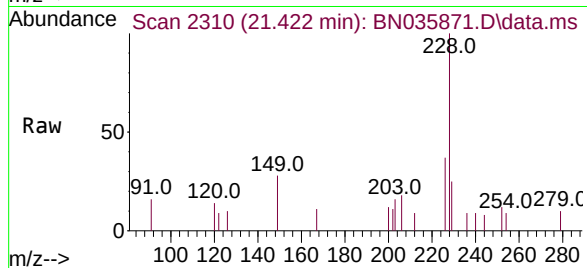
Tgt Ion:228 Resp: 678

Ion Ratio Lower Upper

228 100

226 36.5 25.2 37.8

229 25.3 16.0 24.0#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.121 ng

RT: 21.324 min Scan# 2299

Delta R.T. 0.003 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

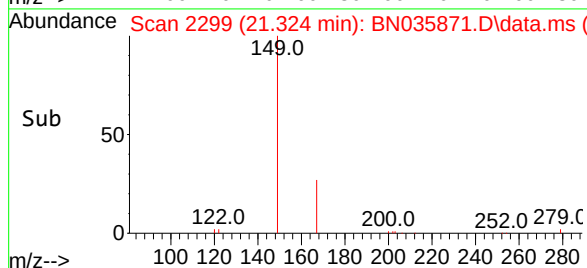
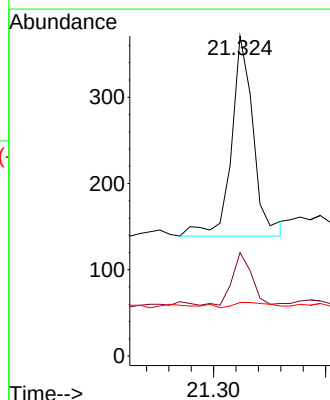
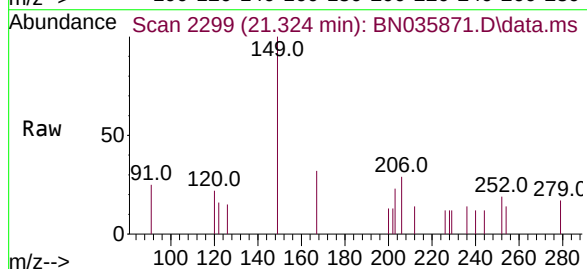
Tgt Ion:149 Resp: 316

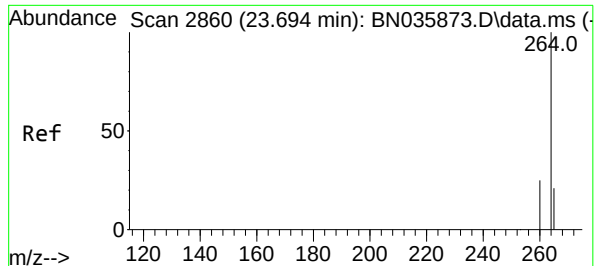
Ion Ratio Lower Upper

149 100

167 23.4 21.4 32.0

279 4.1 3.0 4.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.694 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

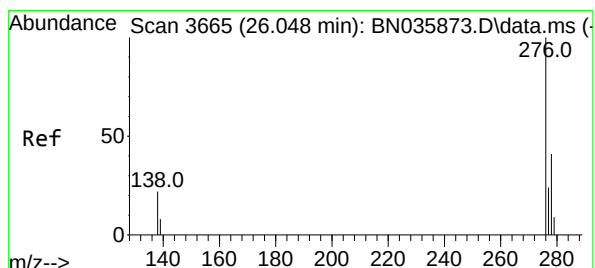
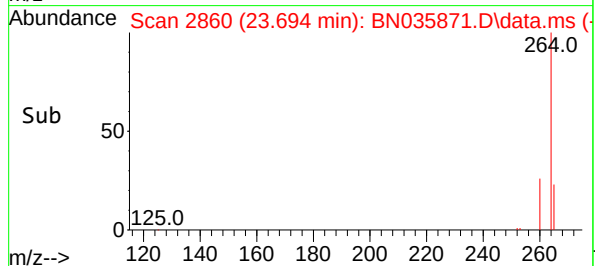
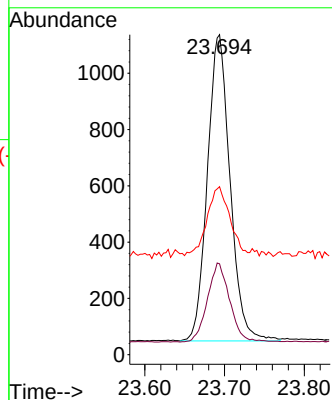
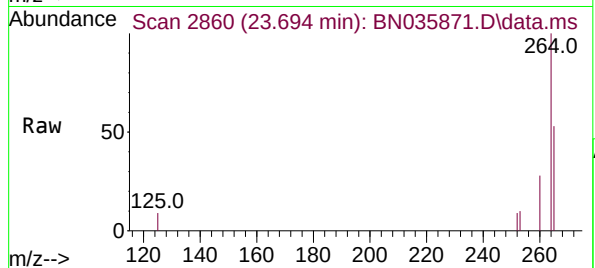
Tgt Ion:264 Resp: 2148

Ion Ratio Lower Upper

264 100

260 28.4 21.7 32.5

265 52.5 33.9 50.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.091 ng

RT: 26.047 min Scan# 3665

Delta R.T. -0.000 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

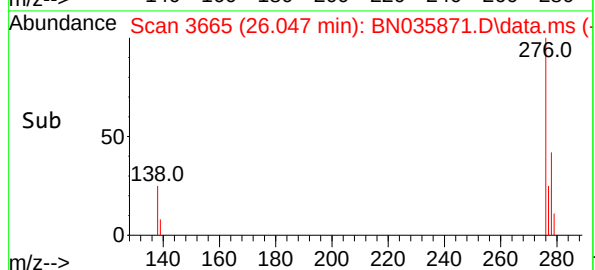
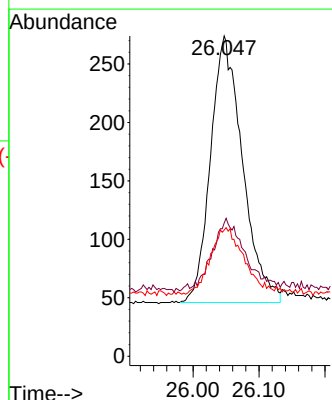
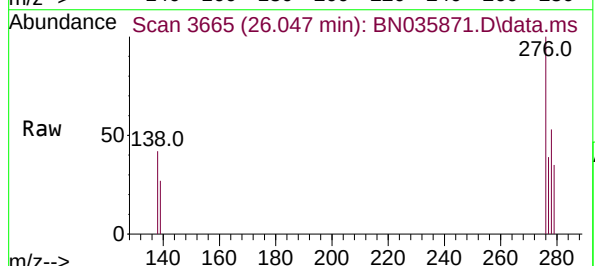
Tgt Ion:276 Resp: 767

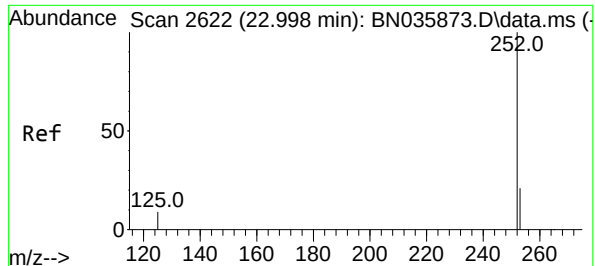
Ion Ratio Lower Upper

276 100

138 26.9 18.9 28.3

277 25.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.097 ng

RT: 23.001 min Scan# 2623

Delta R.T. 0.003 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

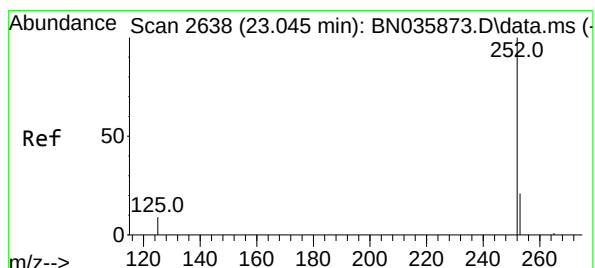
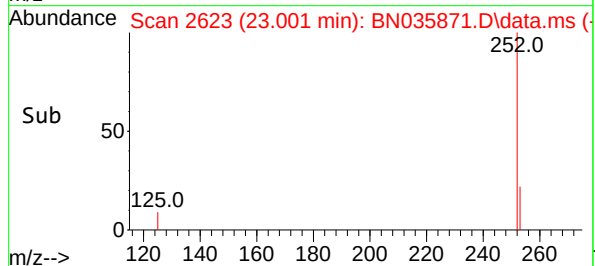
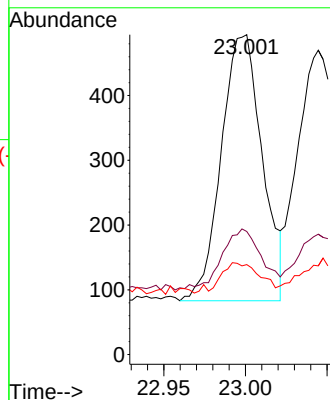
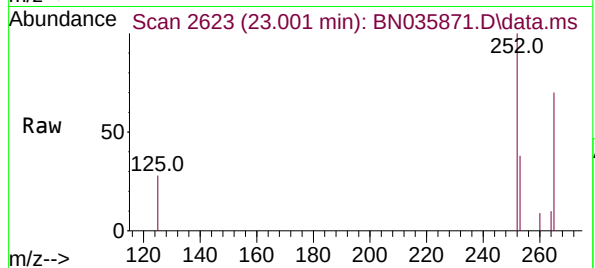
Tgt Ion:252 Resp: 718

Ion Ratio Lower Upper

252 100

253 38.5 20.1 30.1#

125 28.1 9.9 14.9#



#38

Benzo(k)fluoranthene

Concen: 0.094 ng

RT: 23.045 min Scan# 2638

Delta R.T. -0.000 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

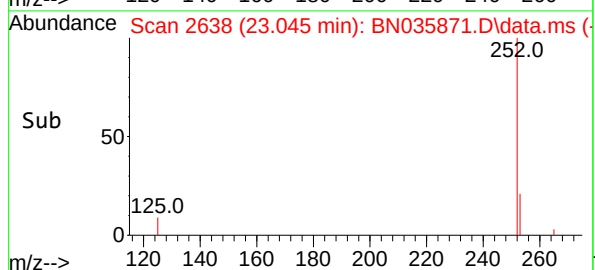
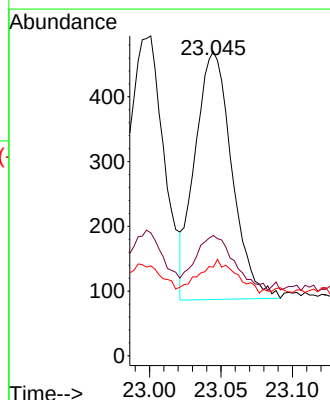
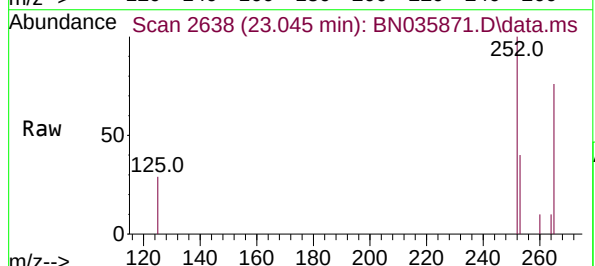
Tgt Ion:252 Resp: 687

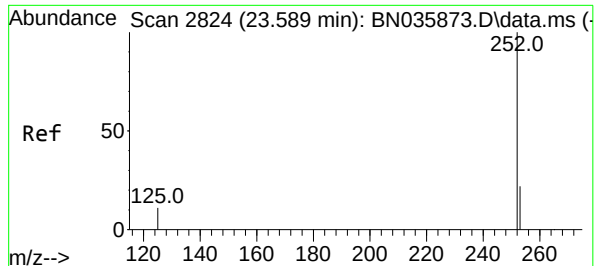
Ion Ratio Lower Upper

252 100

253 39.6 20.5 30.7#

125 29.1 10.6 16.0#





#39

Benzo(a)pyrene

Concen: 0.092 ng

RT: 23.591 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

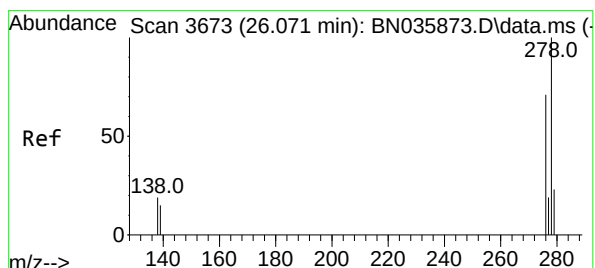
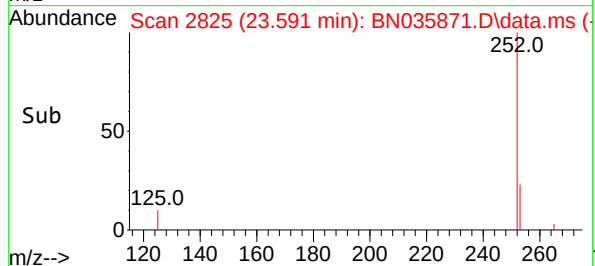
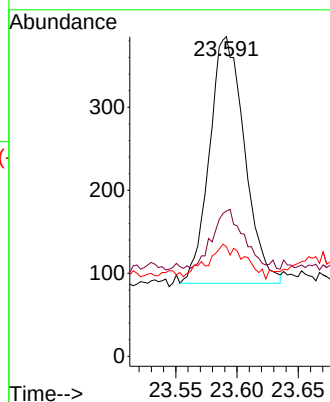
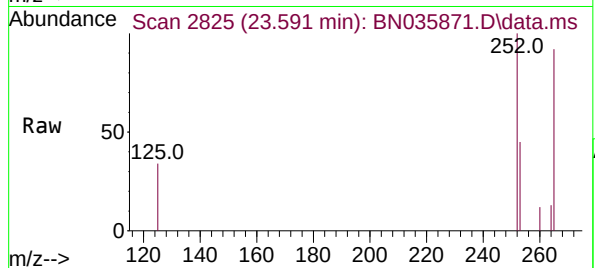
Tgt Ion:252 Resp: 590

Ion Ratio Lower Upper

252 100

253 45.5 21.5 32.3#

125 34.3 12.6 19.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.091 ng

RT: 26.071 min Scan# 3673

Delta R.T. -0.000 min

Lab File: BN035871.D

Acq: 02 Jan 2025 11:28

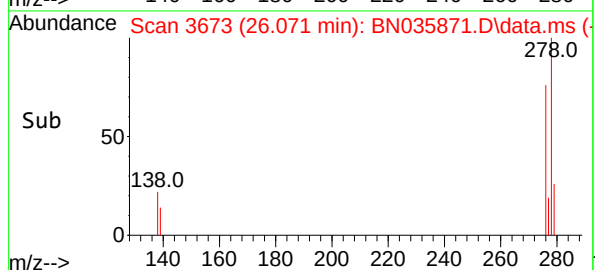
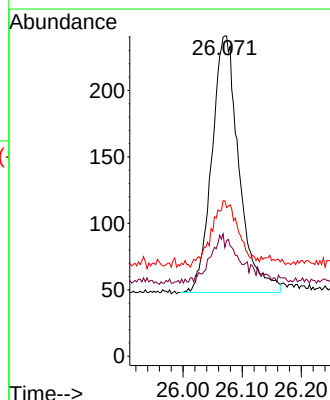
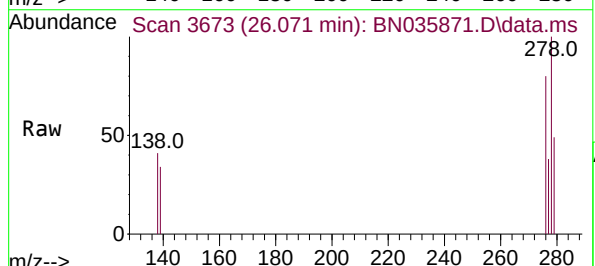
Tgt Ion:278 Resp: 615

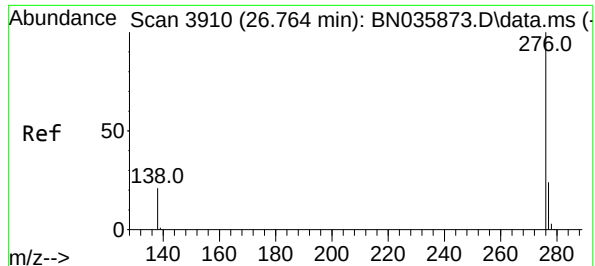
Ion Ratio Lower Upper

278 100

139 34.0 15.9 23.9#

279 48.5 23.0 34.4#





#41

Benzo(g,h,i)perylene

Concen: 0.095 ng

RT: 26.764 min Scan# 3910

Delta R.T. -0.000 min

Lab File: BN035871.D

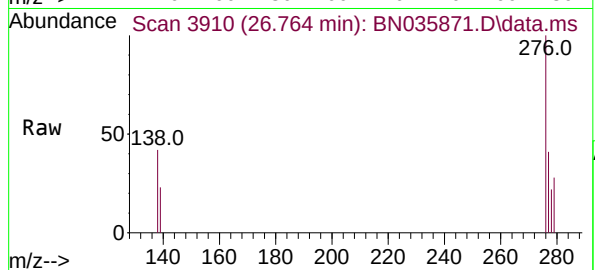
Acq: 02 Jan 2025 11:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



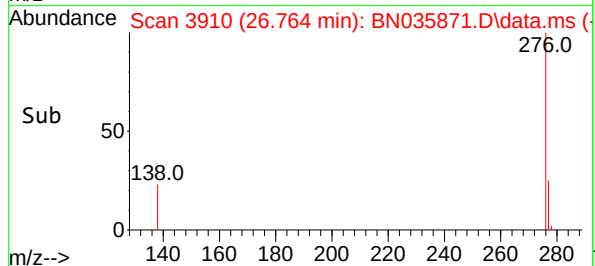
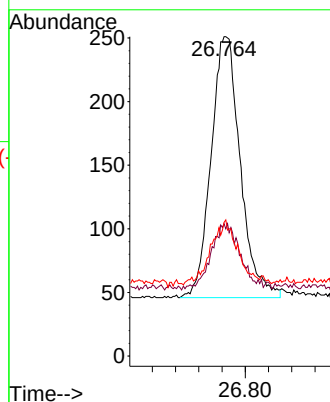
Tgt Ion:276 Resp: 717

Ion Ratio Lower Upper

276 100

277 41.4 22.8 34.2#

138 41.8 20.1 30.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035872.D
 Acq On : 02 Jan 2025 12:04
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Jan 02 15:49:19 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

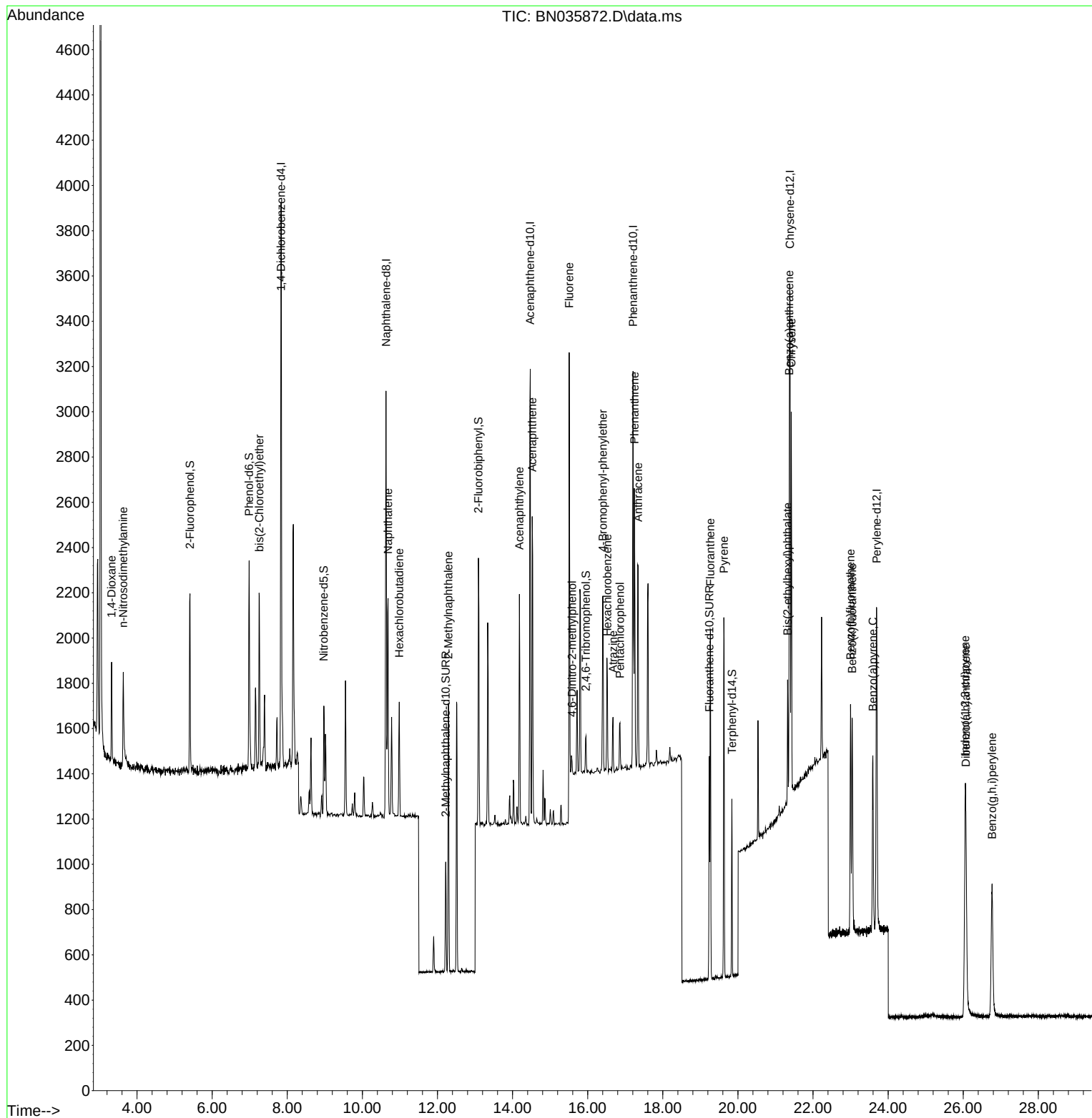
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.835	152	1152	0.400	ng	0.00
7) Naphthalene-d8	10.629	136	2364	0.400	ng	0.00
13) Acenaphthene-d10	14.470	164	1186	0.400	ng	0.00
19) Phenanthrene-d10	17.208	188	2216	0.400	ng	0.00
29) Chrysene-d12	21.386	240	1774	0.400	ng	0.00
35) Perylene-d12	23.694	264	1987	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.409	112	581	0.206	ng	0.00
5) Phenol-d6	6.983	99	723	0.206	ng	0.00
8) Nitrobenzene-d5	8.974	82	363	0.194	ng	0.00
11) 2-Methylnaphthalene-d10	12.220	152	634	0.200	ng	0.00
14) 2,4,6-Tribromophenol	15.954	330	98	0.172	ng	0.00
15) 2-Fluorobiphenyl	13.091	172	993	0.191	ng	0.00
27) Fluoranthene-d10	19.236	212	1055	0.192	ng	0.00
31) Terphenyl-d14	19.840	244	721	0.204	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.322	88	243	0.212	ng	Qvalue 95
3) n-Nitrosodimethylamine	3.632	42	388	0.194	ng	# 86
6) bis(2-Chloroethyl)ether	7.258	93	545	0.204	ng	94
9) Naphthalene	10.682	128	1293	0.195	ng	# 93
10) Hexachlorobutadiene	10.981	225	418	0.194	ng	# 98
12) 2-Methylnaphthalene	12.291	142	773	0.188	ng	97
16) Acenaphthylene	14.182	152	1047	0.187	ng	98
17) Acenaphthene	14.524	154	689	0.188	ng	99
18) Fluorene	15.507	166	753	0.187	ng	98
20) 4,6-Dinitro-2-methylph...	15.582	198	73	0.190	ng	# 79
21) 4-Bromophenyl-phenylether	16.401	248	298	0.196	ng	# 89
22) Hexachlorobenzene	16.525	284	409	0.197	ng	99
23) Atrazine	16.674	200	212	0.208	ng	94
24) Pentachlorophenol	16.860	266	112	0.153	ng	90
25) Phenanthrene	17.245	178	1254	0.194	ng	99
26) Anthracene	17.344	178	1106	0.188	ng	99
28) Fluoranthene	19.268	202	1388	0.184	ng	99
30) Pyrene	19.626	202	1437	0.200	ng	99
32) Benzo(a)anthracene	21.368	228	1226	0.196	ng	97
33) Chrysene	21.422	228	1293	0.198	ng	95
34) Bis(2-ethylhexyl)phtha...	21.323	149	517	0.203	ng	97
36) Indeno(1,2,3-cd)pyrene	26.050	276	1452	0.185	ng	97
37) Benzo(b)fluoranthene	22.998	252	1296	0.190	ng	# 87
38) Benzo(k)fluoranthene	23.042	252	1246	0.184	ng	# 87
39) Benzo(a)pyrene	23.591	252	1173	0.199	ng	# 85
40) Dibenzo(a,h)anthracene	26.070	278	1145	0.184	ng	# 83
41) Benzo(g,h,i)perylene	26.766	276	1307	0.188	ng	# 87

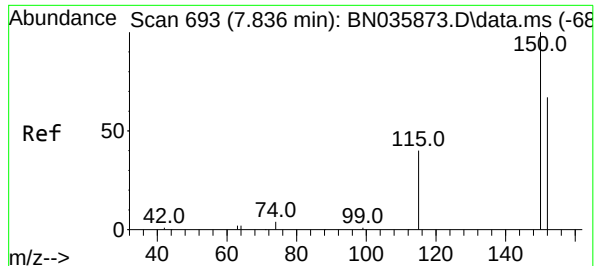
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035872.D
Acq On : 02 Jan 2025 12:04
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jan 02 15:49:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

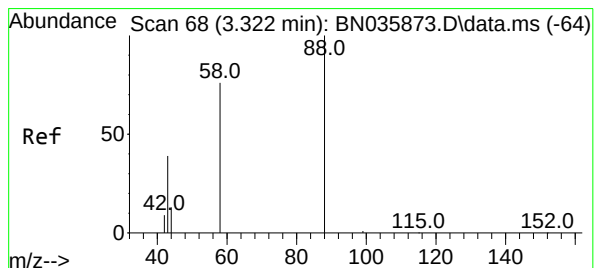
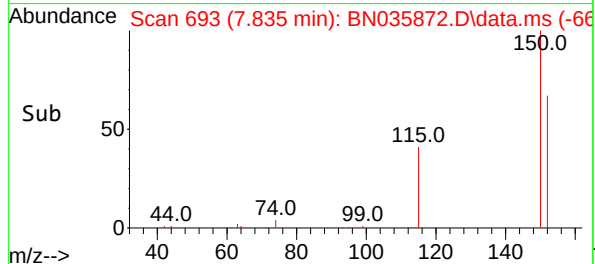
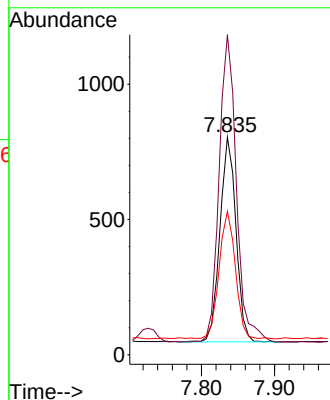
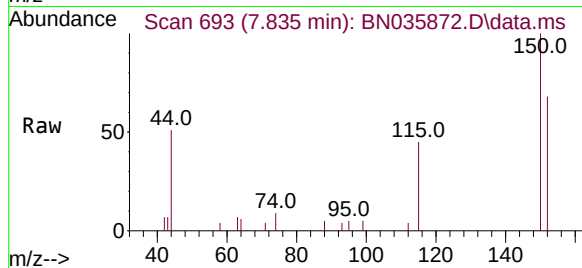




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.835 min Scan# 693
Delta R.T. -0.001 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

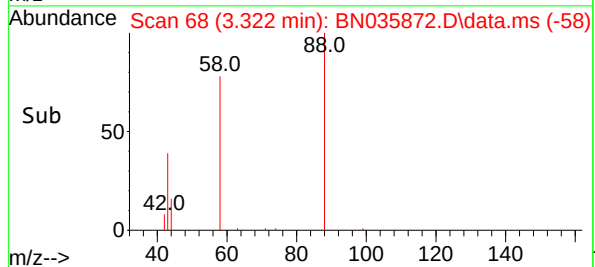
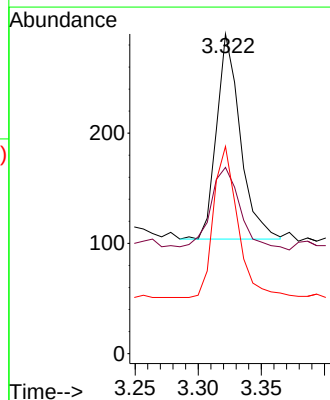
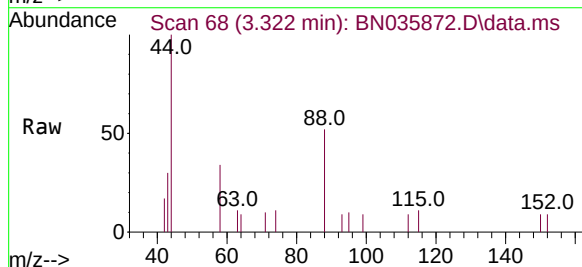
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

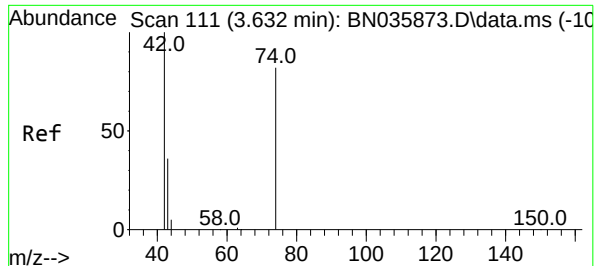
Tgt Ion:152 Resp: 1152
Ion Ratio Lower Upper
152 100
150 147.1 117.8 176.6
115 65.9 51.0 76.4



#2
1,4-Dioxane
Concen: 0.212 ng
RT: 3.322 min Scan# 68
Delta R.T. -0.000 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion: 88 Resp: 243
Ion Ratio Lower Upper
88 100
43 45.7 32.7 49.1
58 74.9 63.0 94.4

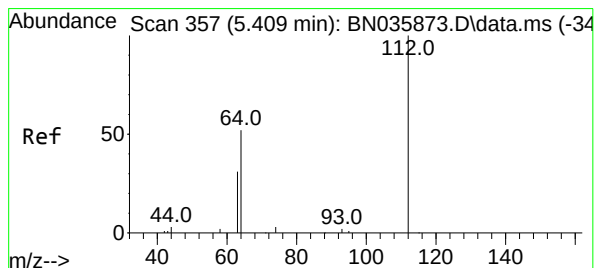
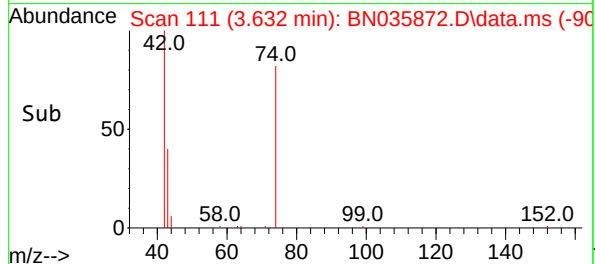
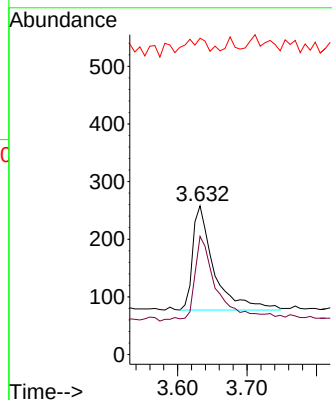
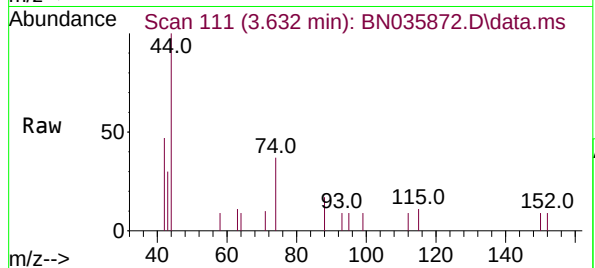




#3
n-Nitrosodimethylamine
Concen: 0.194 ng
RT: 3.632 min Scan# 111
Delta R.T. -0.000 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

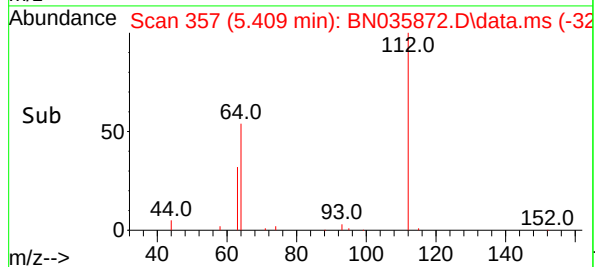
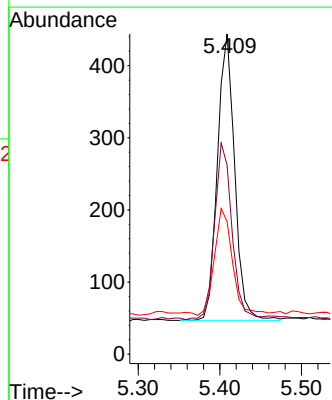
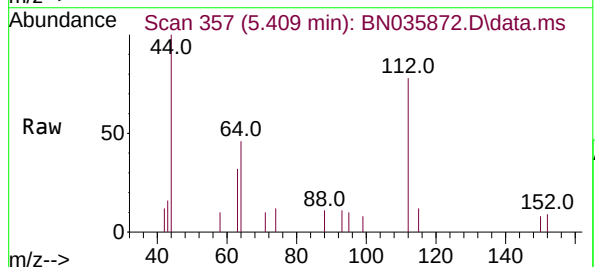
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

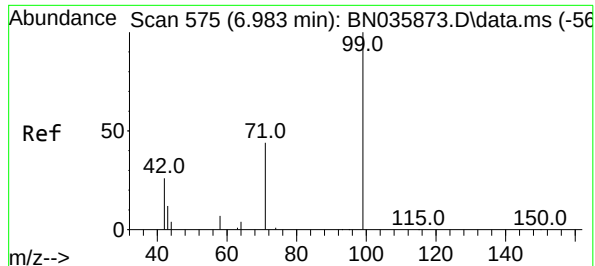
Tgt Ion: 42 Resp: 388
Ion Ratio Lower Upper
42 100
74 88.7 62.2 93.2
44 17.3 7.1 10.7#



#4
2-Fluorophenol
Concen: 0.206 ng
RT: 5.409 min Scan# 357
Delta R.T. -0.000 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion: 112 Resp: 581
Ion Ratio Lower Upper
112 100
64 62.5 48.2 72.2
63 39.1 30.0 45.0

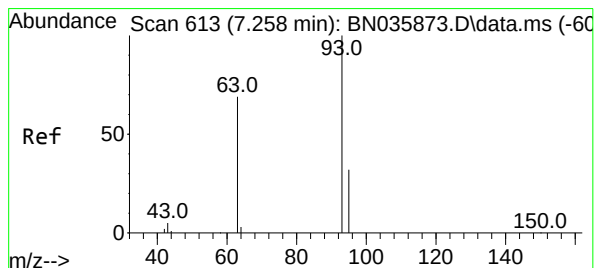
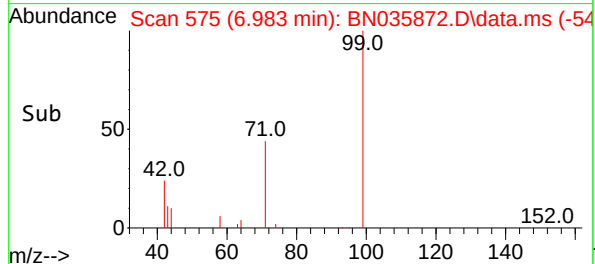
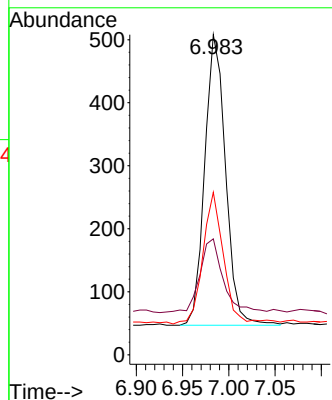
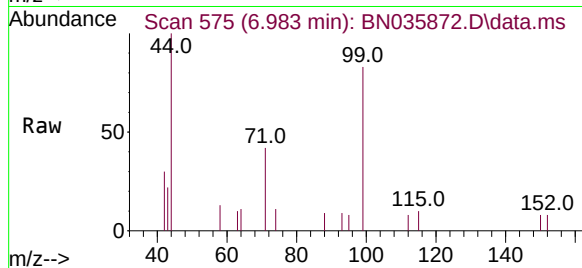




#5
Phenol-d6
Concen: 0.206 ng
RT: 6.983 min Scan# 575
Delta R.T. -0.000 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

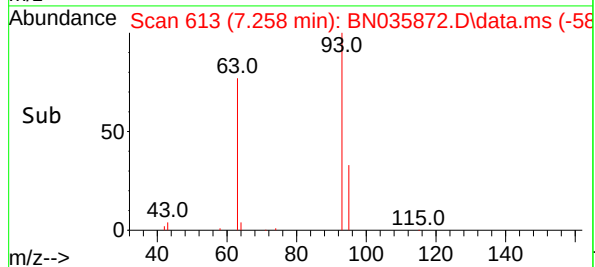
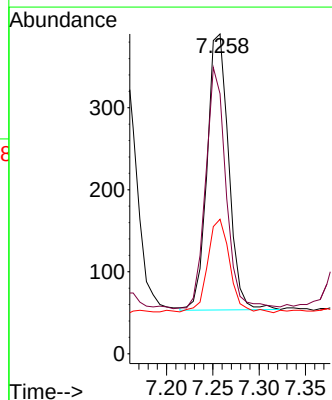
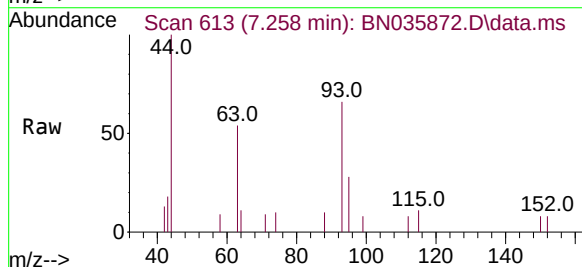
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

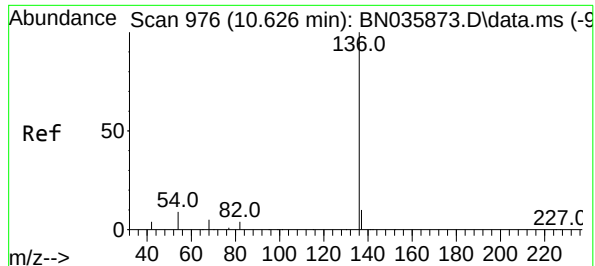
Tgt Ion:	99	Resp:	723
Ion	Ratio	Lower	Upper
99	100		
42	28.2	23.5	35.3
71	44.5	35.5	53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.204 ng
RT: 7.258 min Scan# 613
Delta R.T. -0.000 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:	93	Resp:	545
Ion	Ratio	Lower	Upper
93	100		
63	83.3	62.0	93.0
95	35.0	25.5	38.3

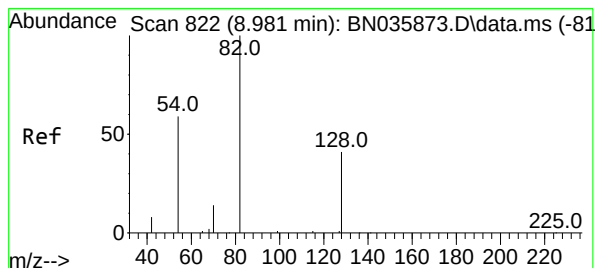
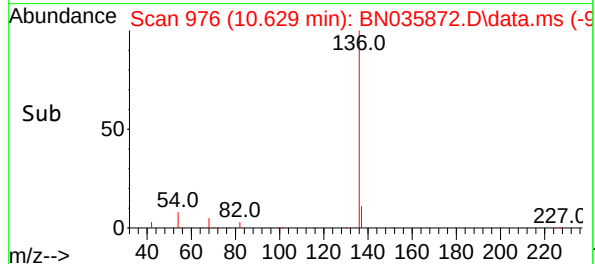
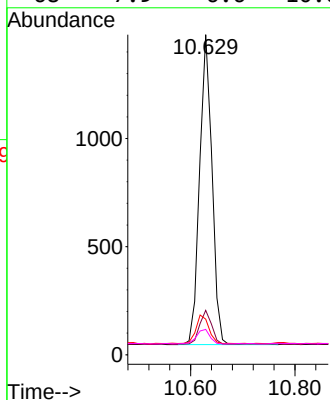
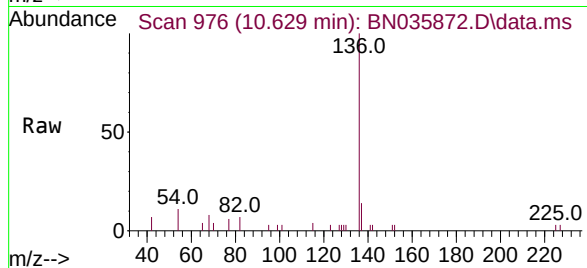




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.629 min Scan# 91
Delta R.T. 0.003 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

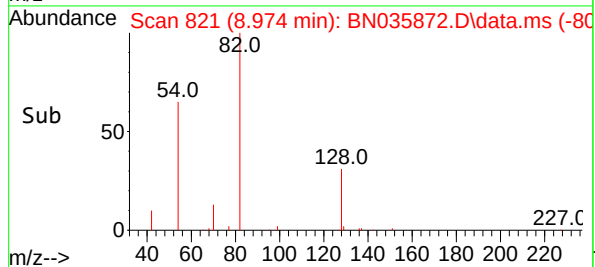
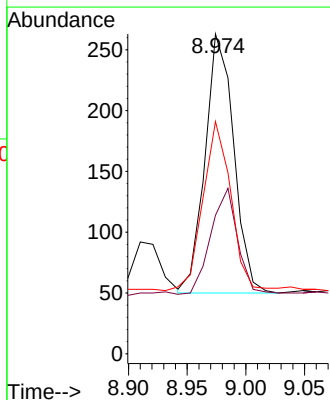
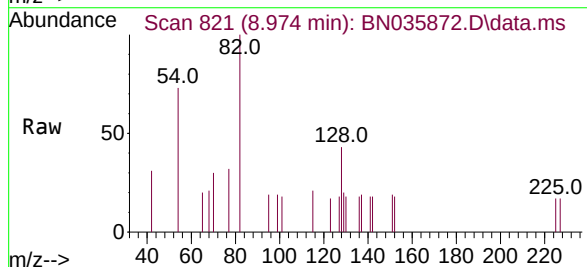
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

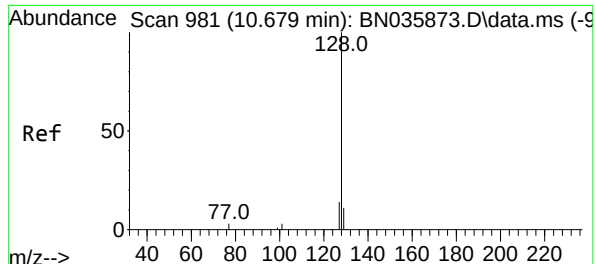
Tgt Ion:	136	Resp:	2364
Ion	Ratio	Lower	Upper
136	100		
137	13.9	10.6	15.8
54	11.1	9.8	14.6
68	7.9	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.194 ng
RT: 8.974 min Scan# 821
Delta R.T. -0.007 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:	82	Resp:	363
Ion	Ratio	Lower	Upper
82	100		
128	43.3	36.9	55.3
54	72.6	50.4	75.6

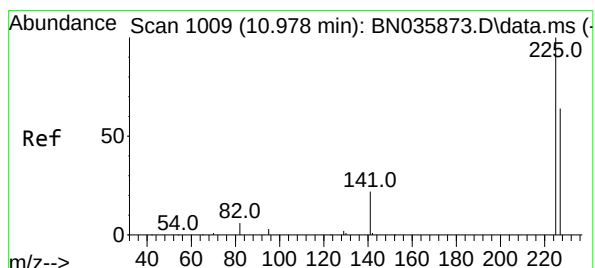
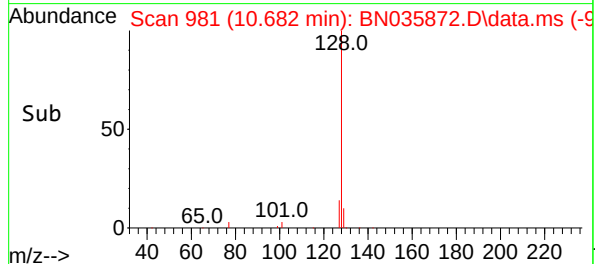
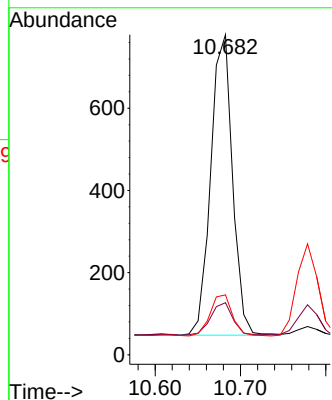
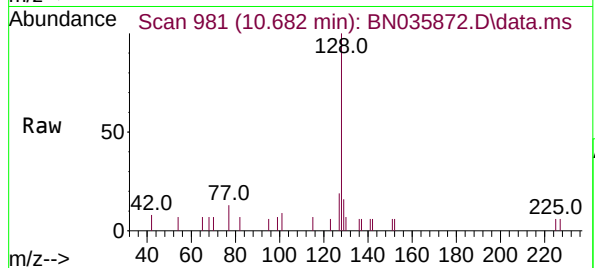




#9
Naphthalene
Concen: 0.195 ng
RT: 10.682 min Scan# 981
Delta R.T. 0.003 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

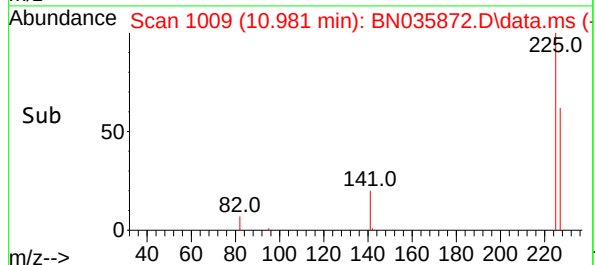
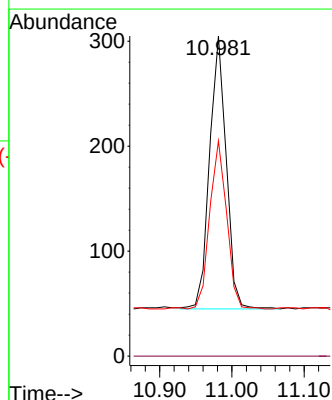
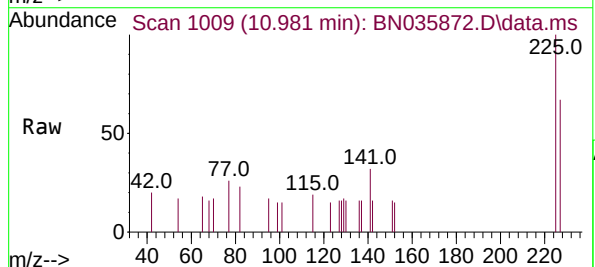
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

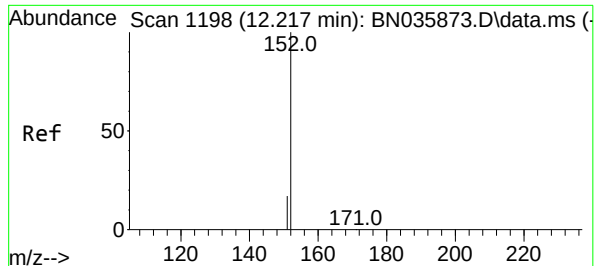
Tgt Ion:128 Resp: 1293
Ion Ratio Lower Upper
128 100
129 16.3 10.6 16.0#
127 18.7 12.8 19.2



#10
Hexachlorobutadiene
Concen: 0.194 ng
RT: 10.981 min Scan# 1009
Delta R.T. 0.003 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:225 Resp: 418
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.9 51.5 77.3

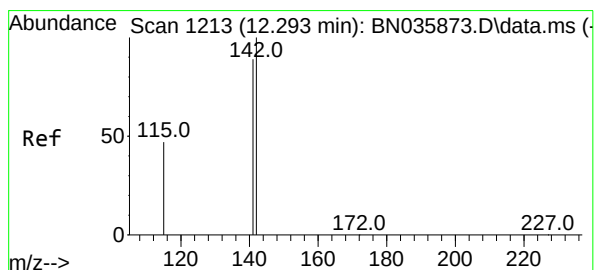
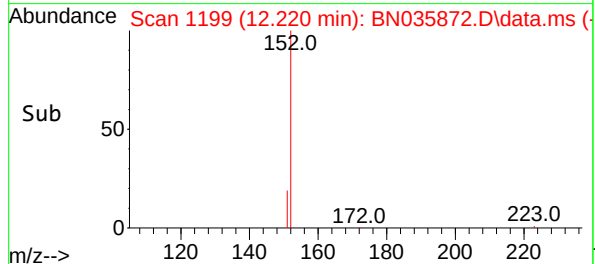
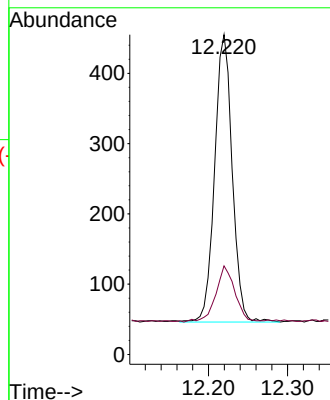
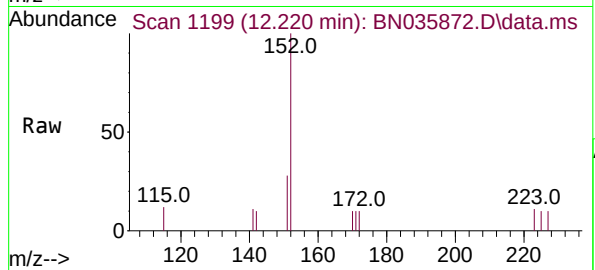




#11
2-Methylnaphthalene-d10
Concen: 0.200 ng
RT: 12.220 min Scan# 1199
Delta R.T. 0.003 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

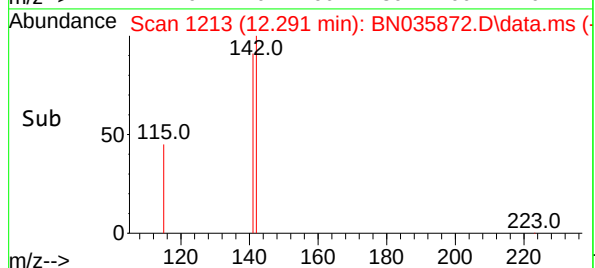
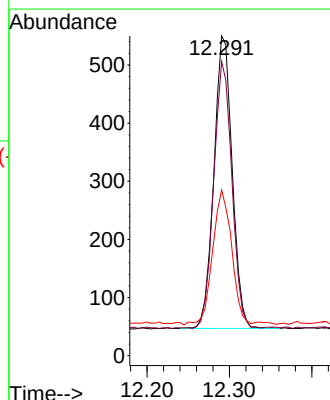
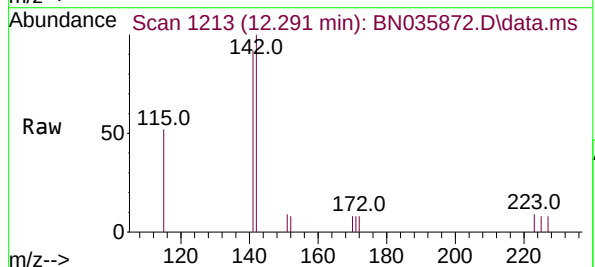
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

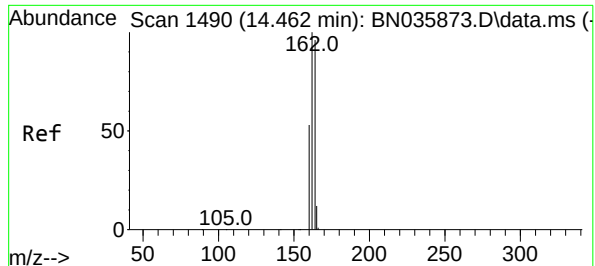
Tgt Ion:152 Resp: 634
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.188 ng
RT: 12.291 min Scan# 1213
Delta R.T. -0.002 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:142 Resp: 773
Ion Ratio Lower Upper
142 100
141 92.0 71.9 107.9
115 51.8 39.6 59.4

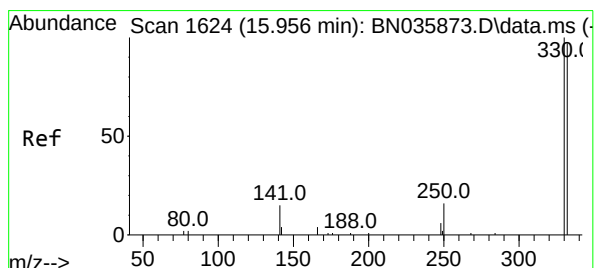
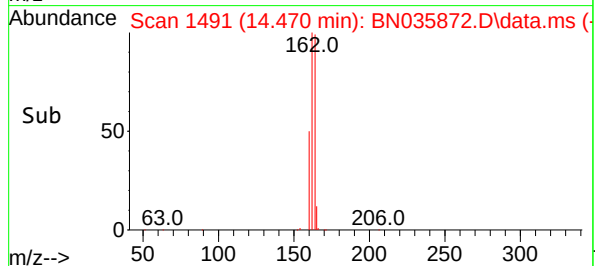
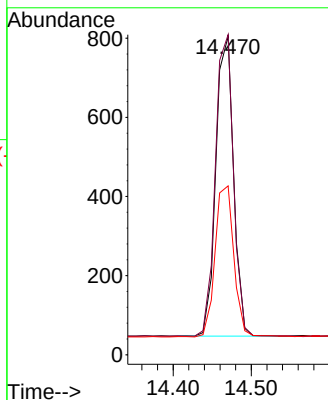
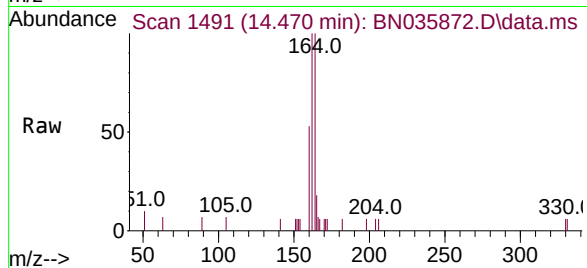




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.470 min Scan# 1491
Delta R.T. 0.008 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

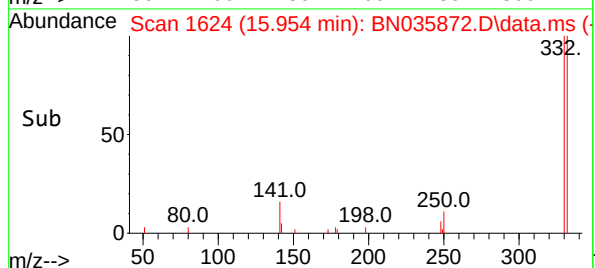
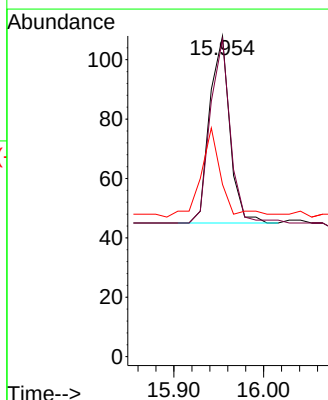
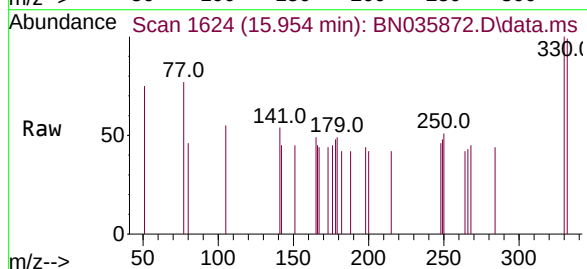
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

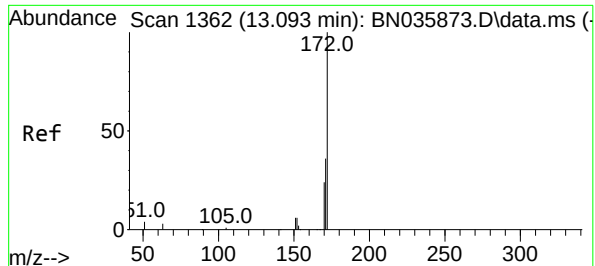
Tgt Ion:164 Resp: 1186
Ion Ratio Lower Upper
164 100
162 100.5 83.1 124.7
160 53.0 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 0.172 ng
RT: 15.954 min Scan# 1624
Delta R.T. -0.002 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:330 Resp: 98
Ion Ratio Lower Upper
330 100
332 99.0 77.2 115.8
141 49.0 31.6 47.4#





#15

2-Fluorobiphenyl

Concen: 0.191 ng

RT: 13.091 min Scan# 1362

Delta R.T. -0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

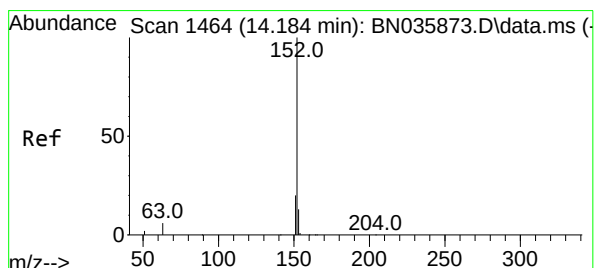
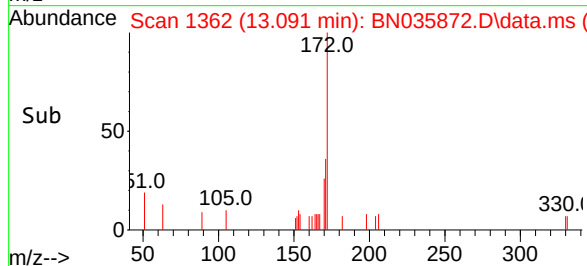
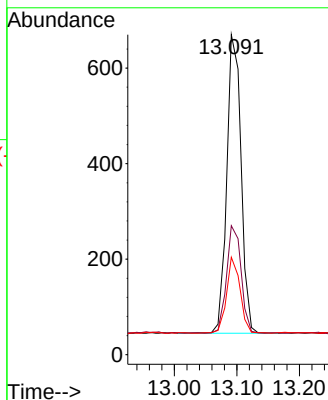
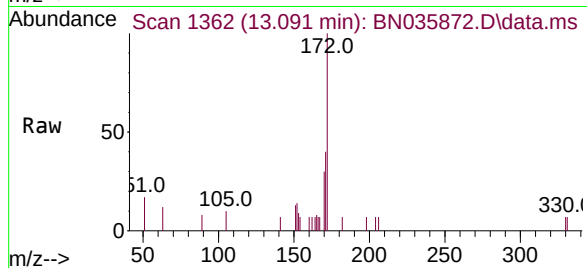
Tgt Ion:172 Resp: 993

Ion Ratio Lower Upper

172 100

171 40.3 30.5 45.7

170 30.4 20.8 31.2



#16

Acenaphthylene

Concen: 0.187 ng

RT: 14.182 min Scan# 1464

Delta R.T. -0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

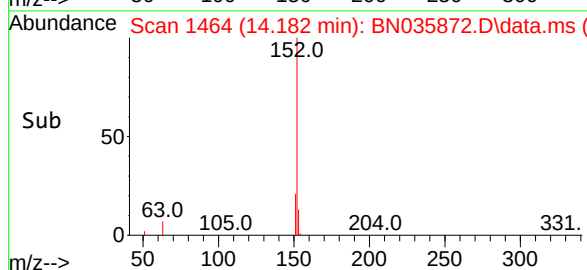
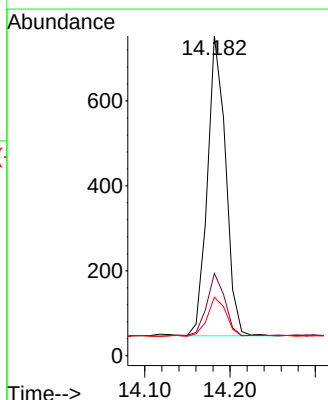
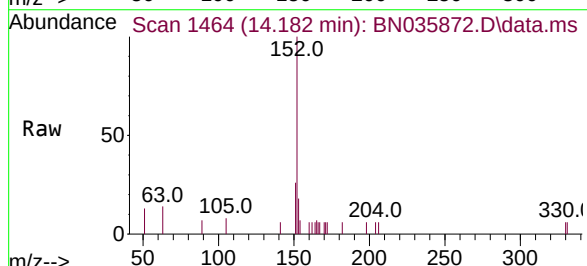
Tgt Ion:152 Resp: 1047

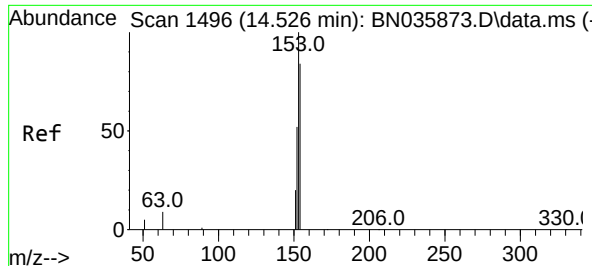
Ion Ratio Lower Upper

152 100

151 21.3 16.3 24.5

153 13.7 10.6 15.8

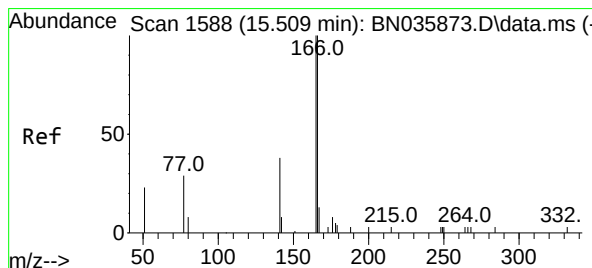
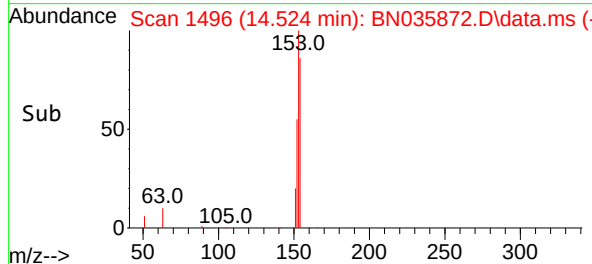
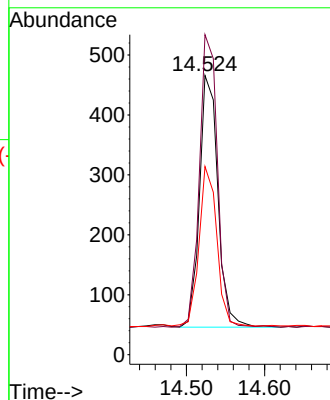
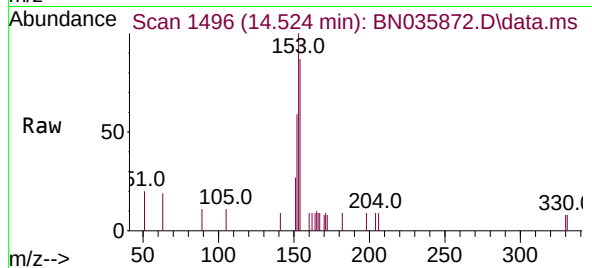




#17
Acenaphthene
Concen: 0.188 ng
RT: 14.524 min Scan# 1496
Delta R.T. -0.002 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

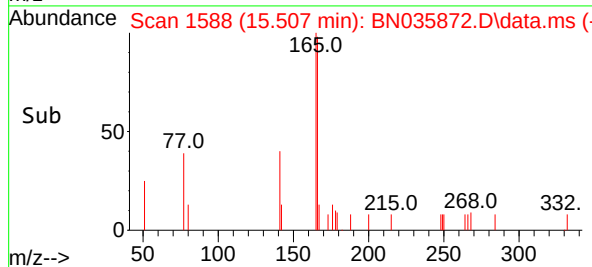
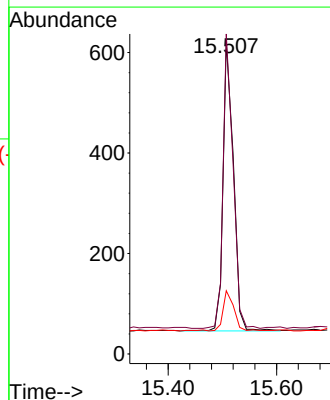
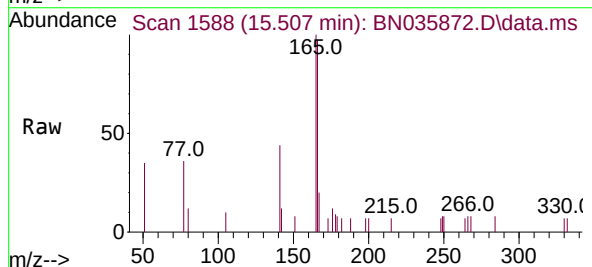
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

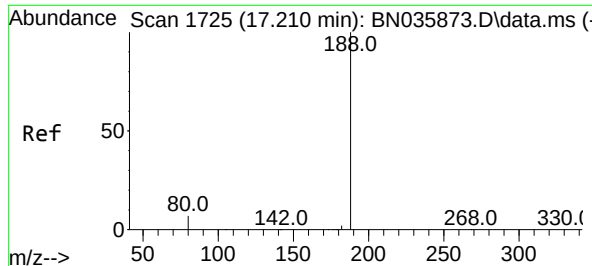
Tgt Ion:154 Resp: 689
Ion Ratio Lower Upper
154 100
153 113.8 90.5 135.7
152 62.1 48.6 73.0



#18
Fluorene
Concen: 0.187 ng
RT: 15.507 min Scan# 1588
Delta R.T. -0.002 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:166 Resp: 753
Ion Ratio Lower Upper
166 100
165 98.4 80.6 120.8
167 14.9 11.4 17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.208 min Scan# 1

Delta R.T. -0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

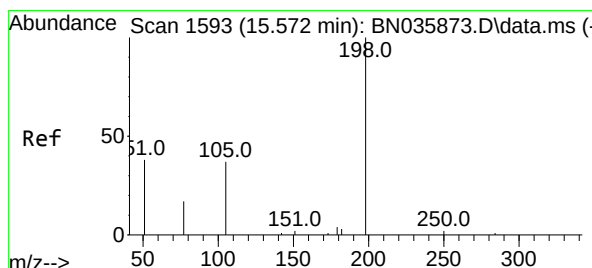
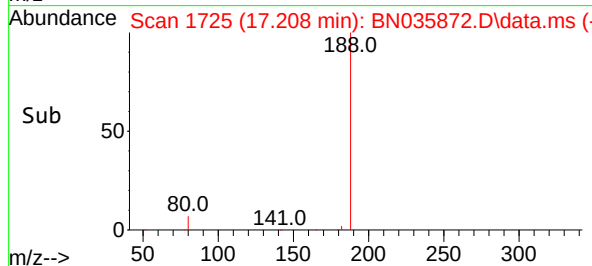
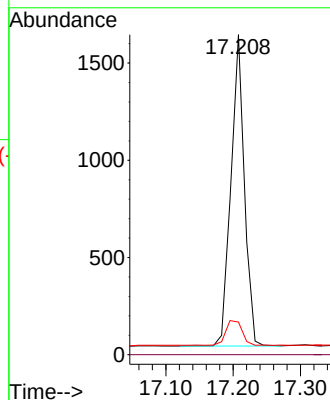
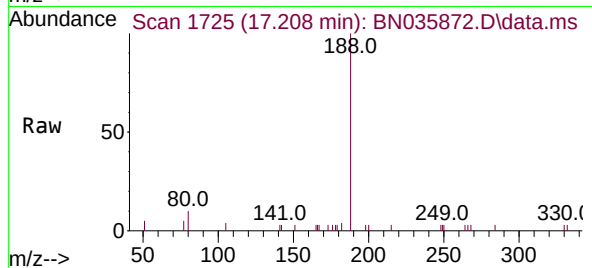
Tgt Ion:188 Resp: 2216

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.190 ng

RT: 15.582 min Scan# 1594

Delta R.T. 0.010 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

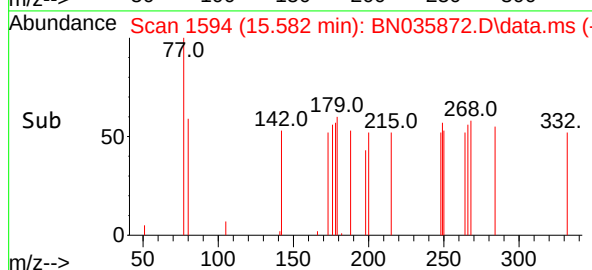
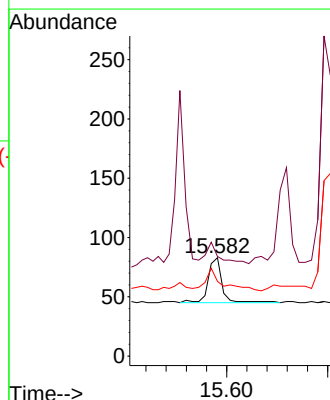
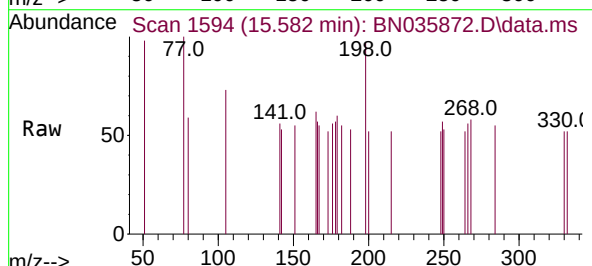
Tgt Ion:198 Resp: 73

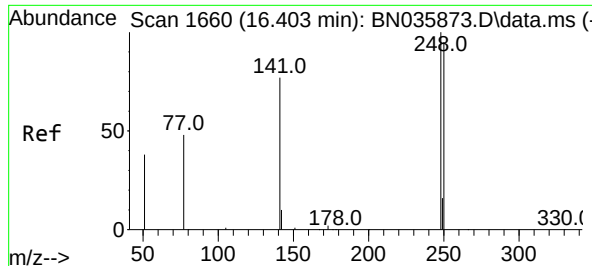
Ion Ratio Lower Upper

198 100

51 101.2 64.3 96.5#

105 75.9 50.0 75.0#

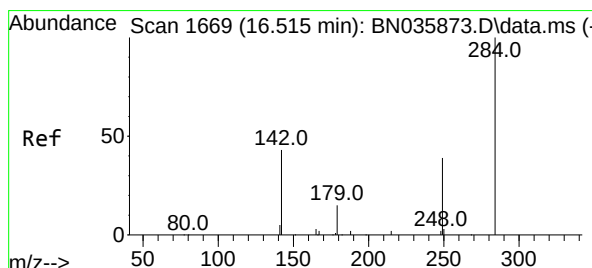
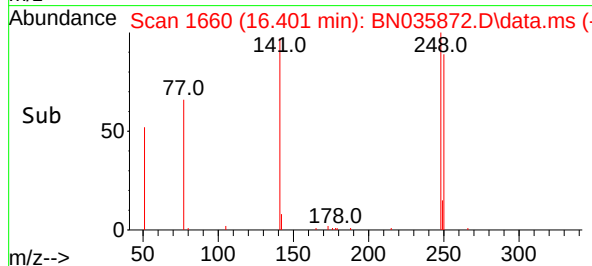
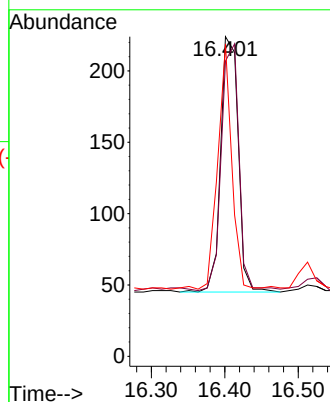
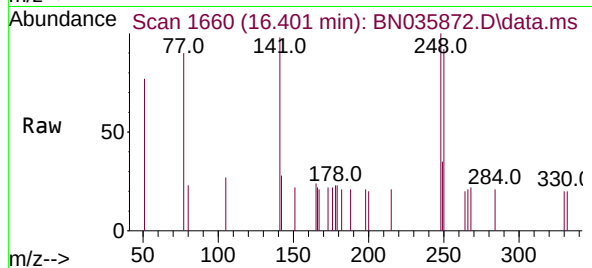




#21
4-Bromophenyl-phenylether
Concen: 0.196 ng
RT: 16.401 min Scan# 1670
Delta R.T. -0.002 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

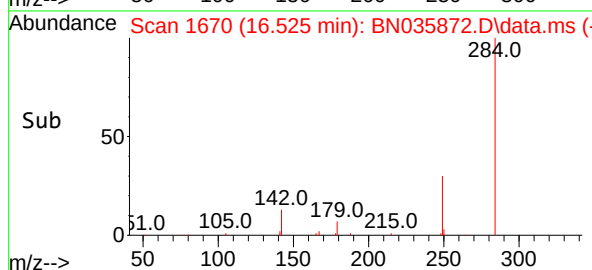
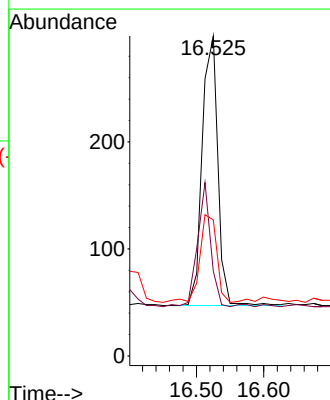
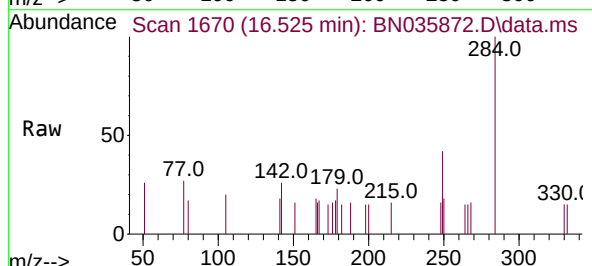
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

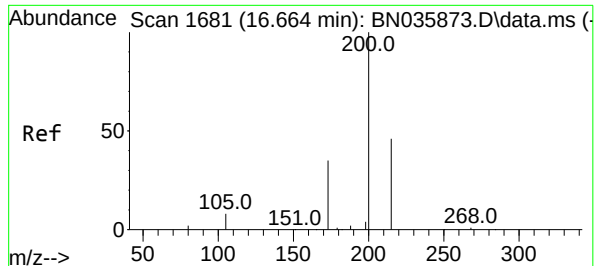
Tgt Ion:248 Resp: 298
Ion Ratio Lower Upper
248 100
250 92.4 76.8 115.2
141 97.8 63.6 95.4#



#22
Hexachlorobenzene
Concen: 0.197 ng
RT: 16.525 min Scan# 1670
Delta R.T. 0.010 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:284 Resp: 409
Ion Ratio Lower Upper
284 100
142 38.6 31.4 47.0
249 35.2 27.8 41.8





#23

Atrazine

Concen: 0.208 ng

RT: 16.674 min Scan# 1682

Delta R.T. 0.010 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

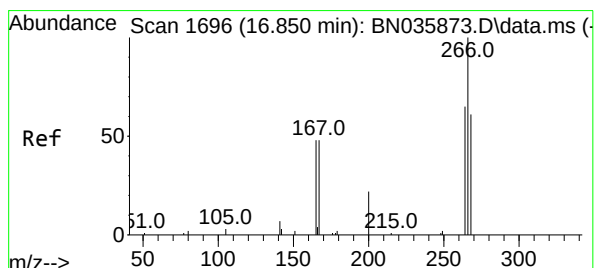
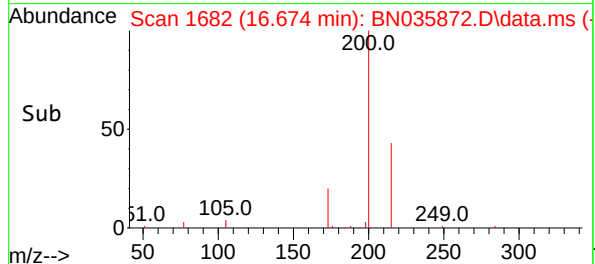
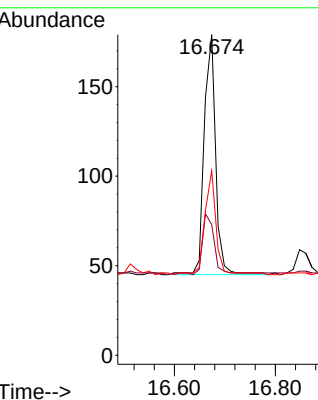
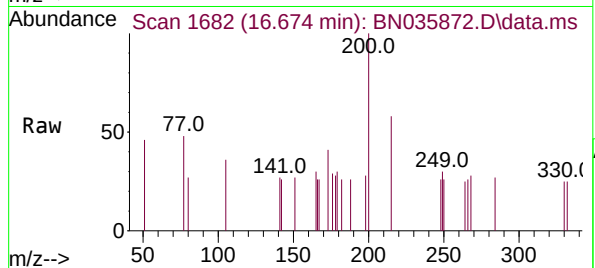
Tgt Ion:200 Resp: 212

Ion Ratio Lower Upper

200 100

173 40.8 35.4 53.0

215 57.5 42.4 63.6



#24

Pentachlorophenol

Concen: 0.153 ng

RT: 16.860 min Scan# 1697

Delta R.T. 0.010 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

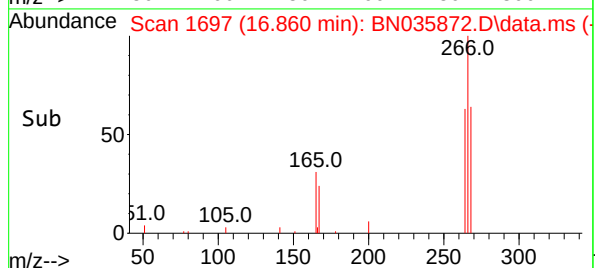
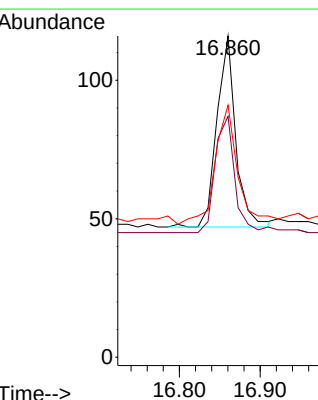
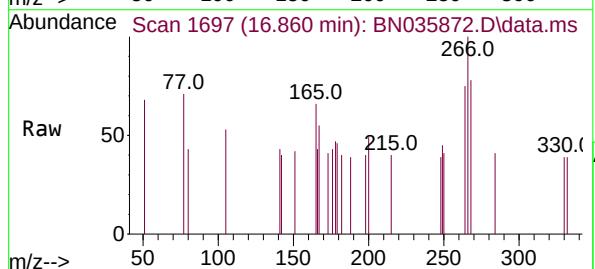
Tgt Ion:266 Resp: 112

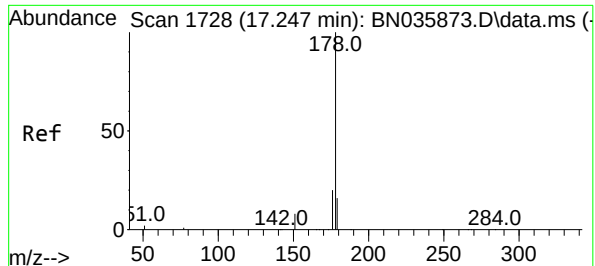
Ion Ratio Lower Upper

266 100

264 65.2 49.9 74.9

268 75.0 50.2 75.2

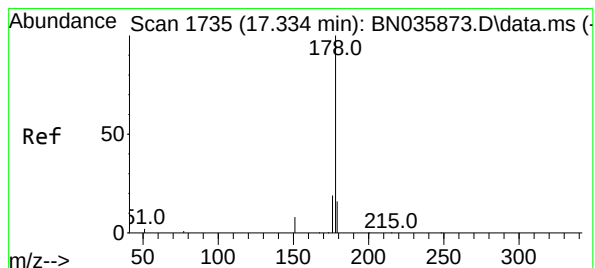
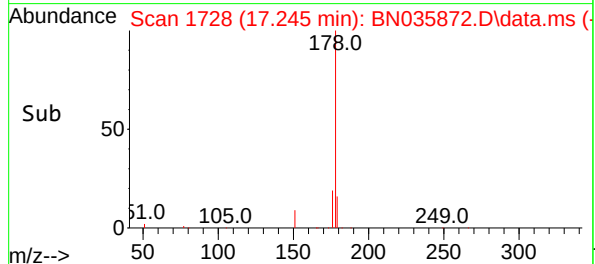
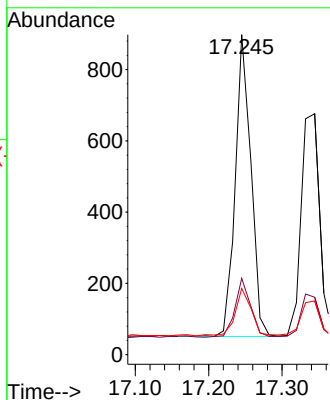
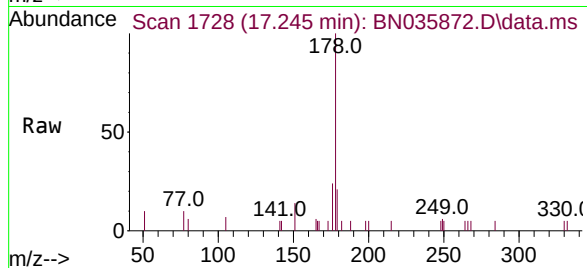




#25
Phenanthrene
Concen: 0.194 ng
RT: 17.245 min Scan# 1728
Delta R.T. -0.002 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

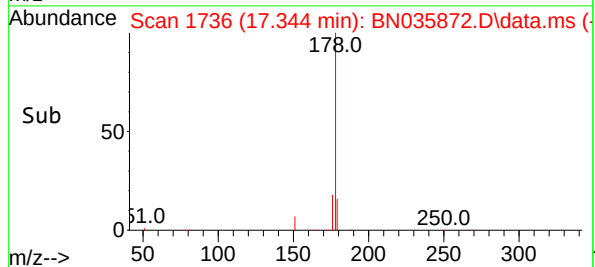
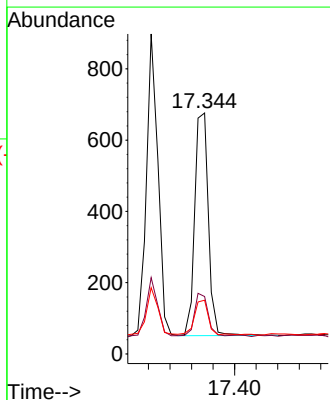
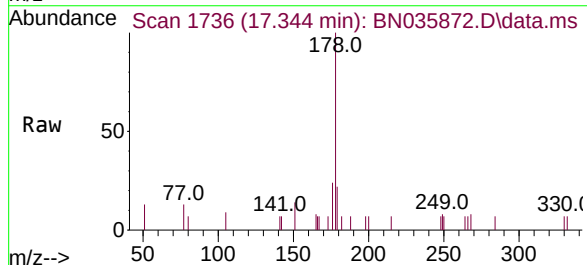
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

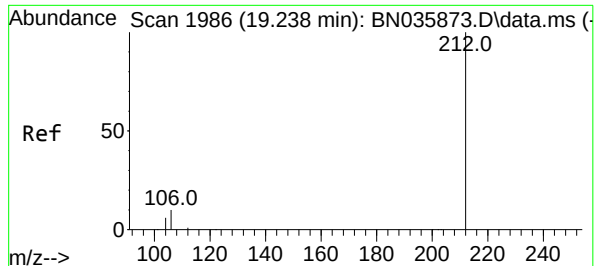
Tgt Ion:178 Resp: 1254
Ion Ratio Lower Upper
178 100
176 19.5 15.9 23.9
179 16.0 12.9 19.3



#26
Anthracene
Concen: 0.188 ng
RT: 17.344 min Scan# 1736
Delta R.T. 0.010 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:178 Resp: 1106
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.5 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.192 ng

RT: 19.236 min Scan# 1986

Delta R.T. -0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

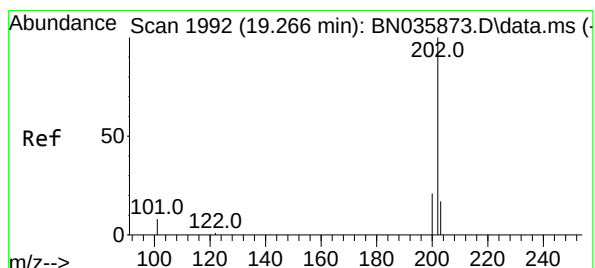
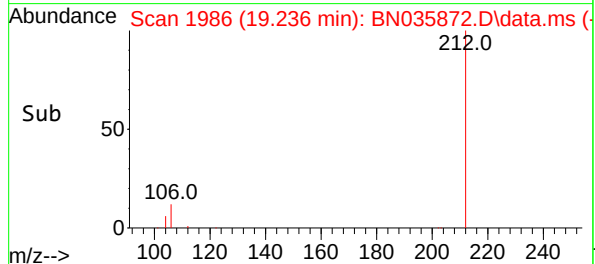
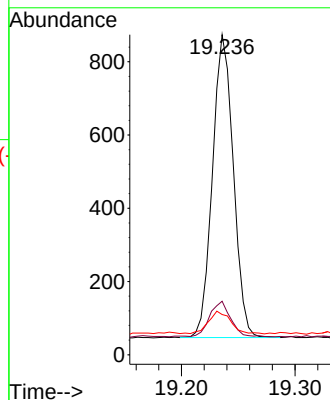
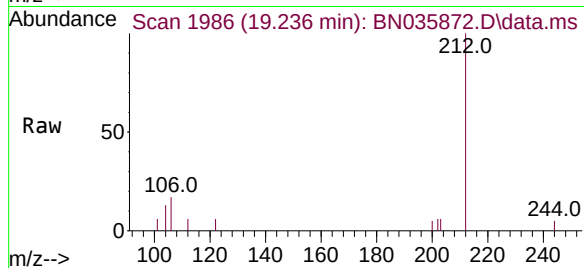
Tgt Ion:212 Resp: 1055

Ion Ratio Lower Upper

212 100

106 11.9 9.0 13.6

104 8.0 5.4 8.2



#28

Fluoranthene

Concen: 0.184 ng

RT: 19.268 min Scan# 1993

Delta R.T. 0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

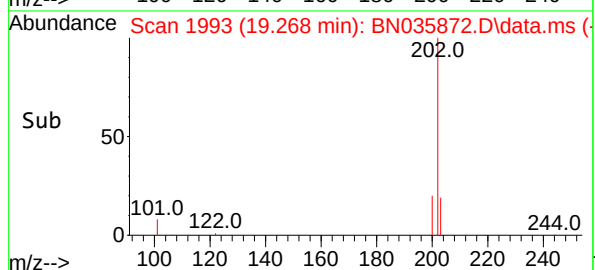
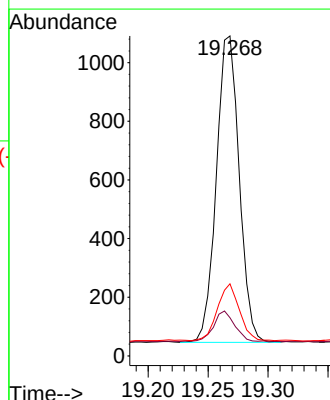
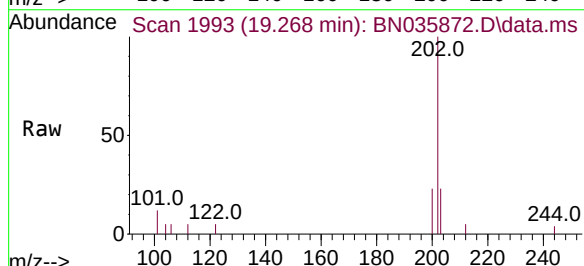
Tgt Ion:202 Resp: 1388

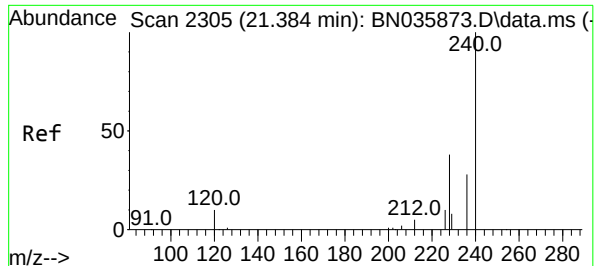
Ion Ratio Lower Upper

202 100

101 9.1 7.2 10.8

203 17.7 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.386 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

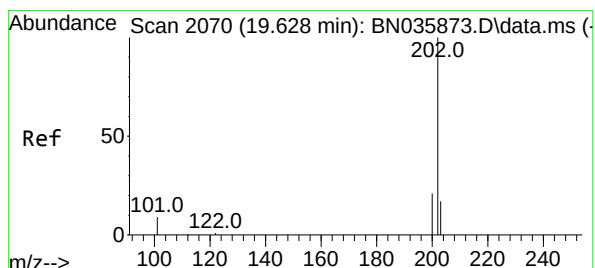
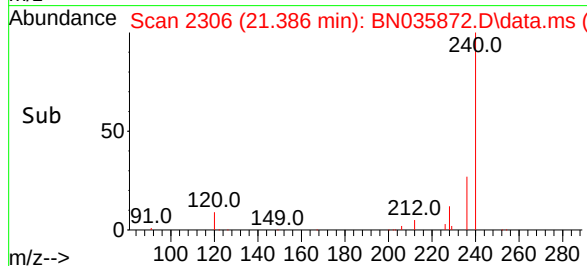
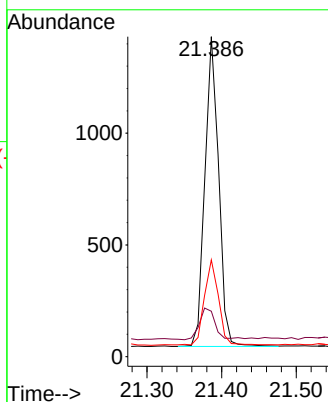
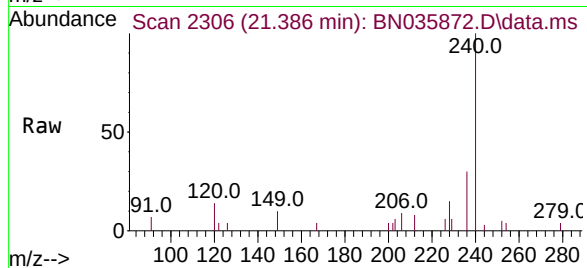
Tgt Ion:240 Resp: 1774

Ion Ratio Lower Upper

240 100

120 14.2 11.1 16.7

236 30.2 24.6 36.8



#30

Pyrene

Concen: 0.200 ng

RT: 19.626 min Scan# 2070

Delta R.T. -0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

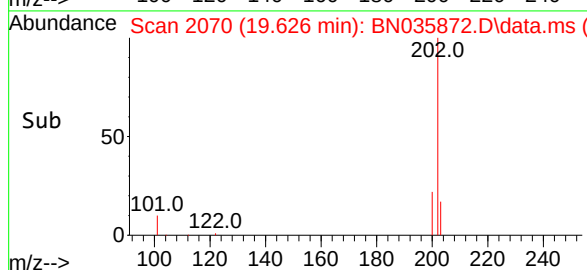
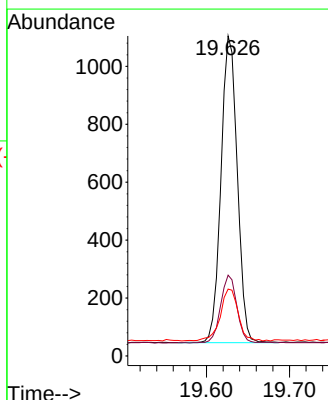
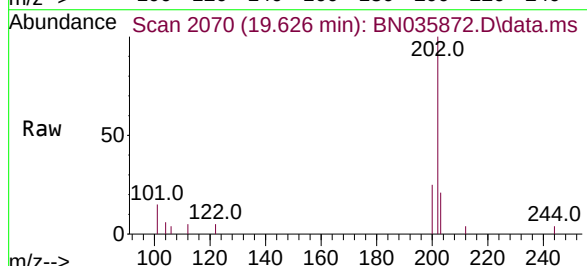
Tgt Ion:202 Resp: 1437

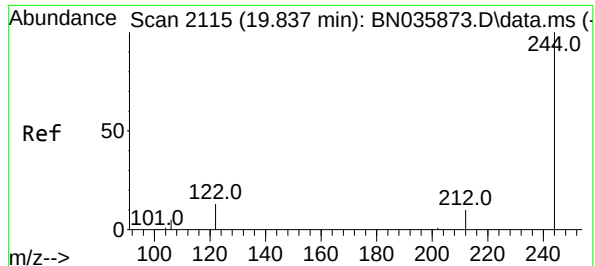
Ion Ratio Lower Upper

202 100

200 22.0 17.0 25.6

203 18.6 14.6 22.0

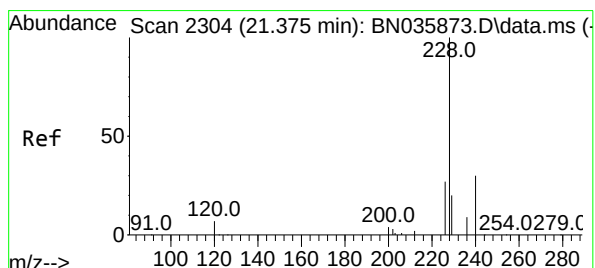
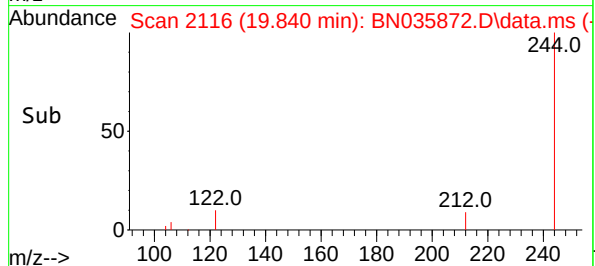
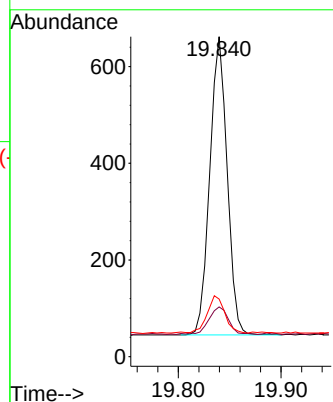
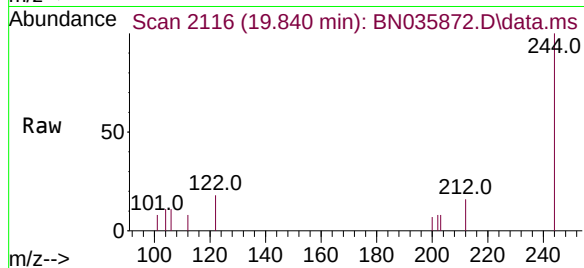




#31
Terphenyl-d14
Concen: 0.204 ng
RT: 19.840 min Scan# 2115
Delta R.T. 0.002 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

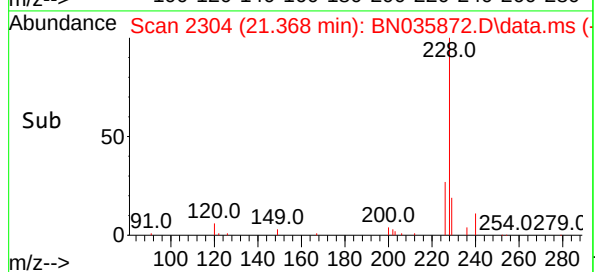
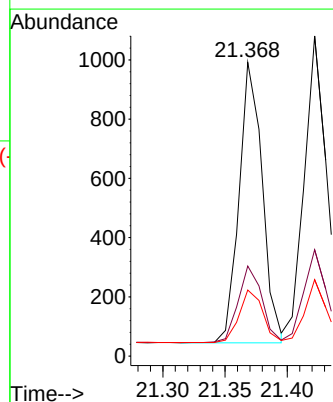
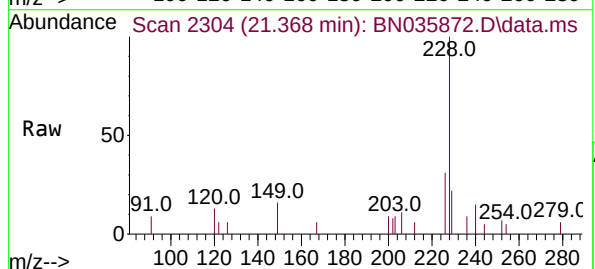
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

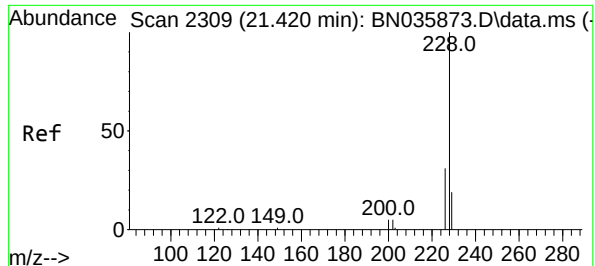
Tgt Ion:244 Resp: 721
Ion Ratio Lower Upper
244 100
212 15.6 10.1 15.1#
122 18.0 12.2 18.4



#32
Benzo(a)anthracene
Concen: 0.196 ng
RT: 21.368 min Scan# 2304
Delta R.T. -0.007 min
Lab File: BN035872.D
Acq: 02 Jan 2025 12:04

Tgt Ion:228 Resp: 1226
Ion Ratio Lower Upper
228 100
226 30.6 22.7 34.1
229 22.5 17.1 25.7





#33

Chrysene

Concen: 0.198 ng

RT: 21.422 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

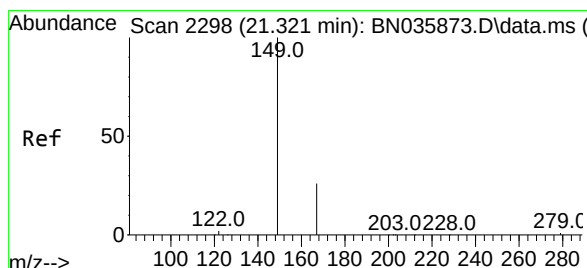
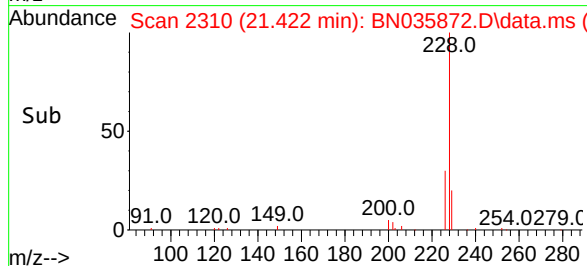
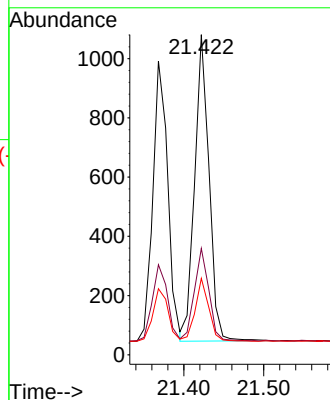
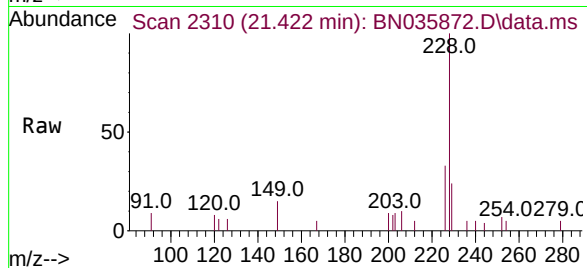
Tgt Ion:228 Resp: 1293

Ion Ratio Lower Upper

228 100

226 33.2 25.2 37.8

229 23.9 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.203 ng

RT: 21.323 min Scan# 2299

Delta R.T. 0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

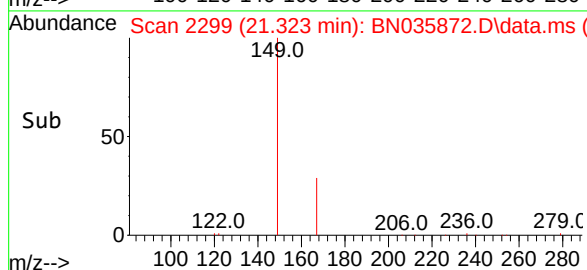
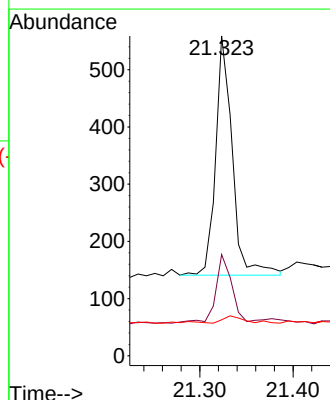
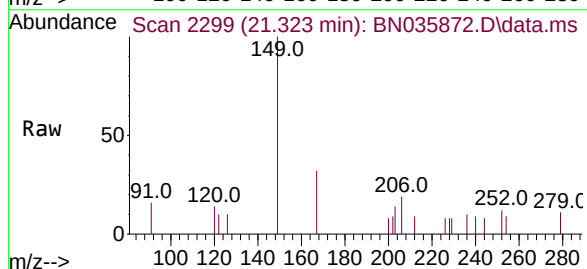
Tgt Ion:149 Resp: 517

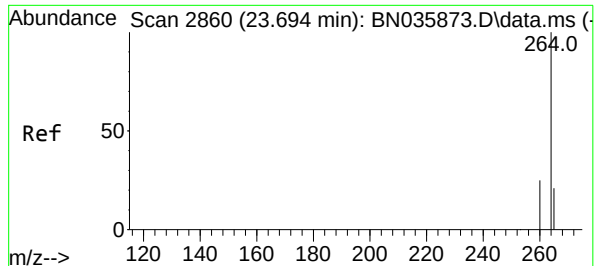
Ion Ratio Lower Upper

149 100

167 28.2 21.4 32.0

279 3.9 3.0 4.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.694 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035872.D

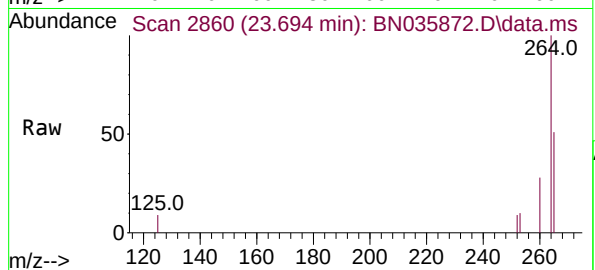
Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



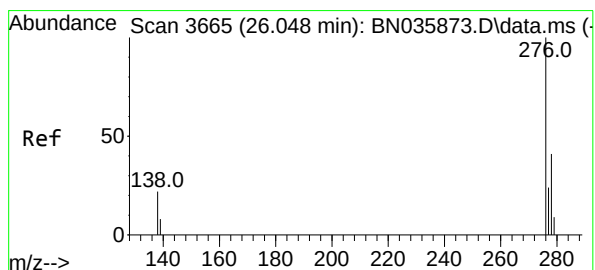
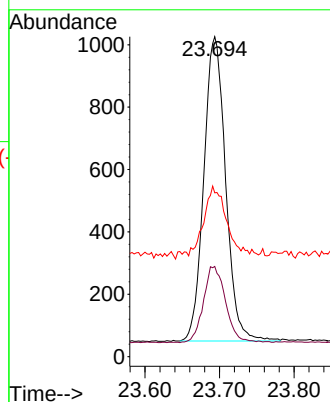
Tgt Ion:264 Resp: 1987

Ion Ratio Lower Upper

264 100

260 28.2 21.7 32.5

265 51.2 33.9 50.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.185 ng

RT: 26.050 min Scan# 3666

Delta R.T. 0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

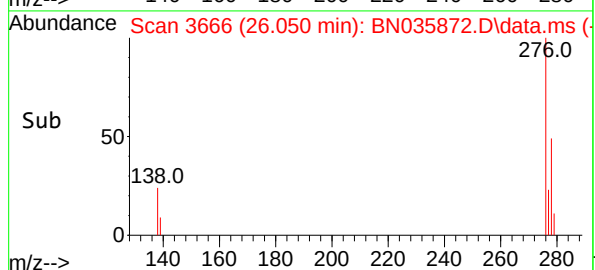
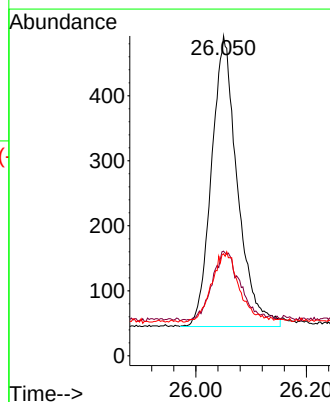
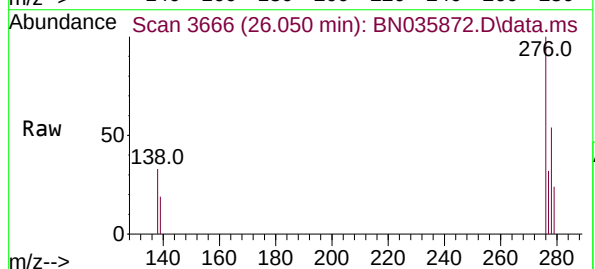
Tgt Ion:276 Resp: 1452

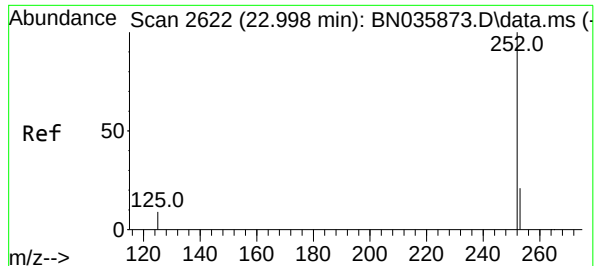
Ion Ratio Lower Upper

276 100

138 24.9 18.9 28.3

277 25.6 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.190 ng

RT: 22.998 min Scan# 2622

Delta R.T. -0.000 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

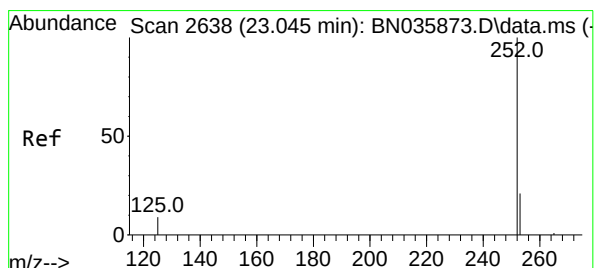
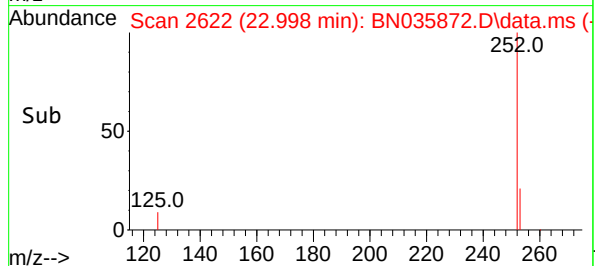
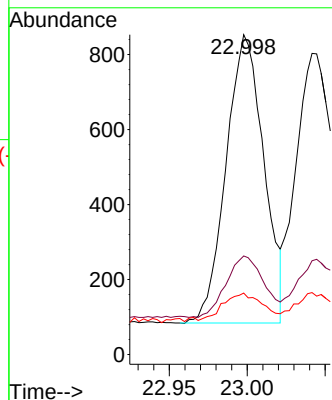
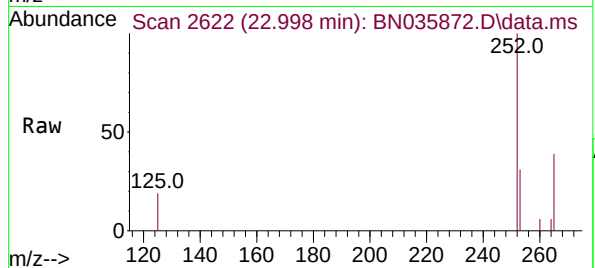
Tgt Ion:252 Resp: 1296

Ion Ratio Lower Upper

252 100

253 30.8 20.1 30.1#

125 19.2 9.9 14.9#



#38

Benzo(k)fluoranthene

Concen: 0.184 ng

RT: 23.042 min Scan# 2637

Delta R.T. -0.003 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

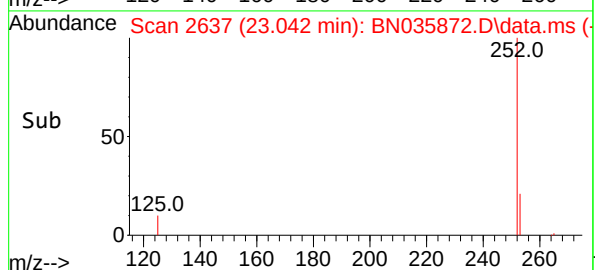
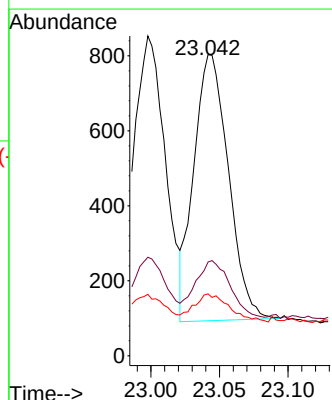
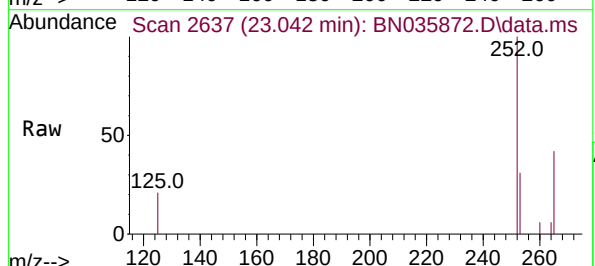
Tgt Ion:252 Resp: 1246

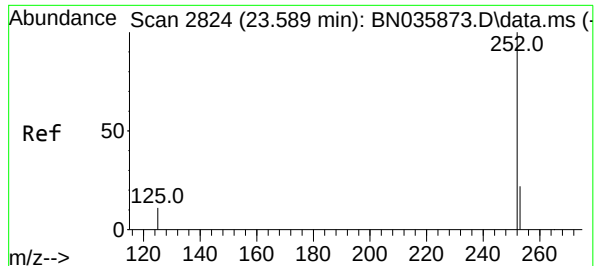
Ion Ratio Lower Upper

252 100

253 31.1 20.5 30.7#

125 20.5 10.6 16.0#





#39

Benzo(a)pyrene

Concen: 0.199 ng

RT: 23.591 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

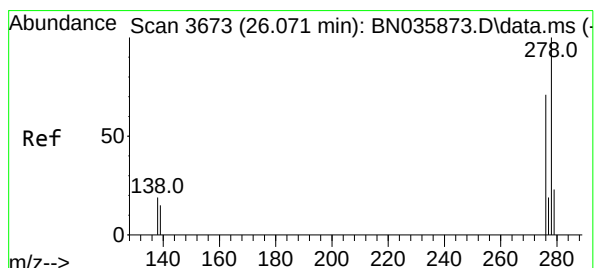
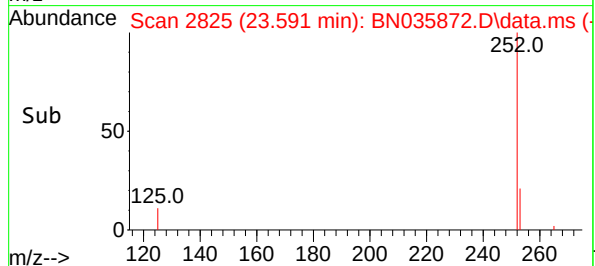
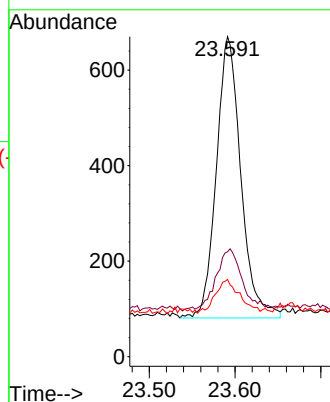
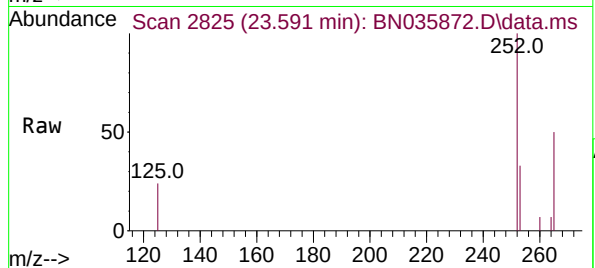
Tgt Ion:252 Resp: 1173

Ion Ratio Lower Upper

252 100

253 32.8 21.5 32.3#

125 24.2 12.6 19.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.184 ng

RT: 26.070 min Scan# 3673

Delta R.T. -0.000 min

Lab File: BN035872.D

Acq: 02 Jan 2025 12:04

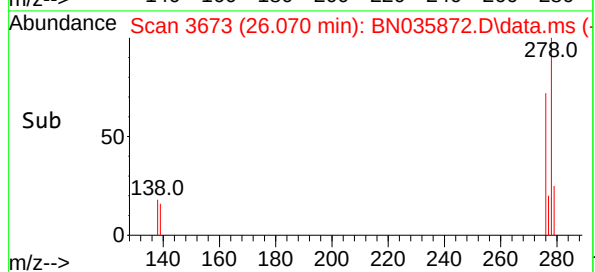
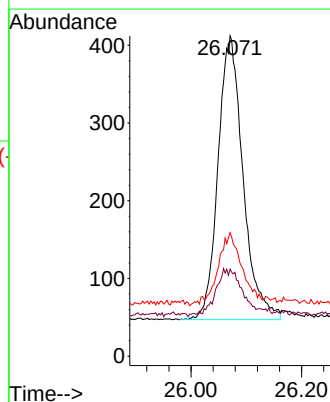
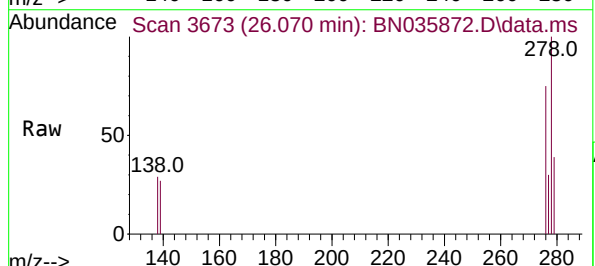
Tgt Ion:278 Resp: 1145

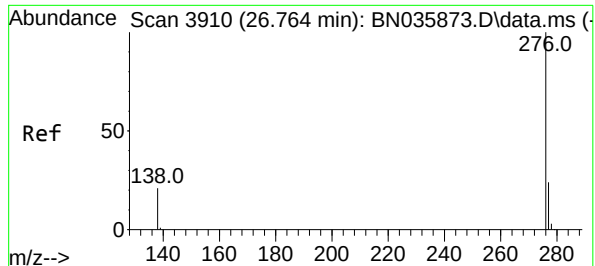
Ion Ratio Lower Upper

278 100

139 27.2 15.9 23.9#

279 38.6 23.0 34.4#





#41

Benzo(g,h,i)perylene

Concen: 0.188 ng

RT: 26.766 min Scan# 3911

Delta R.T. 0.002 min

Lab File: BN035872.D

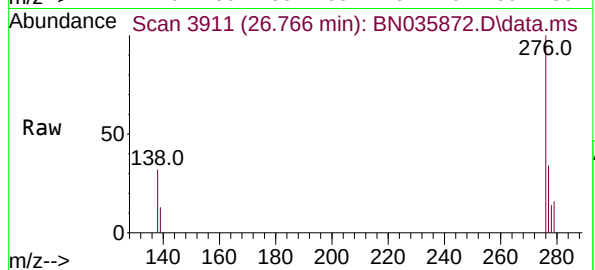
Acq: 02 Jan 2025 12:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



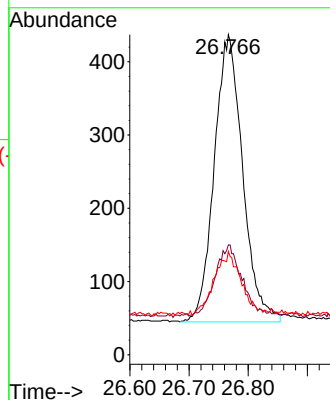
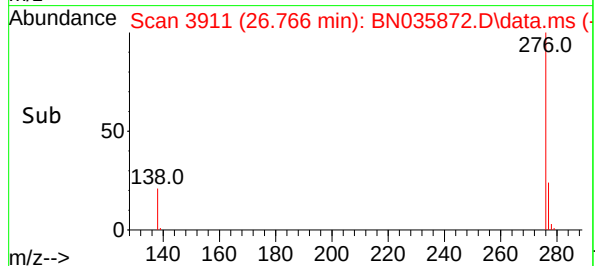
Tgt Ion:276 Resp: 1307

Ion Ratio Lower Upper

276 100

277 34.3 22.8 34.2#

138 32.3 20.1 30.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035873.D
 Acq On : 02 Jan 2025 12:40
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Jan 02 15:49:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

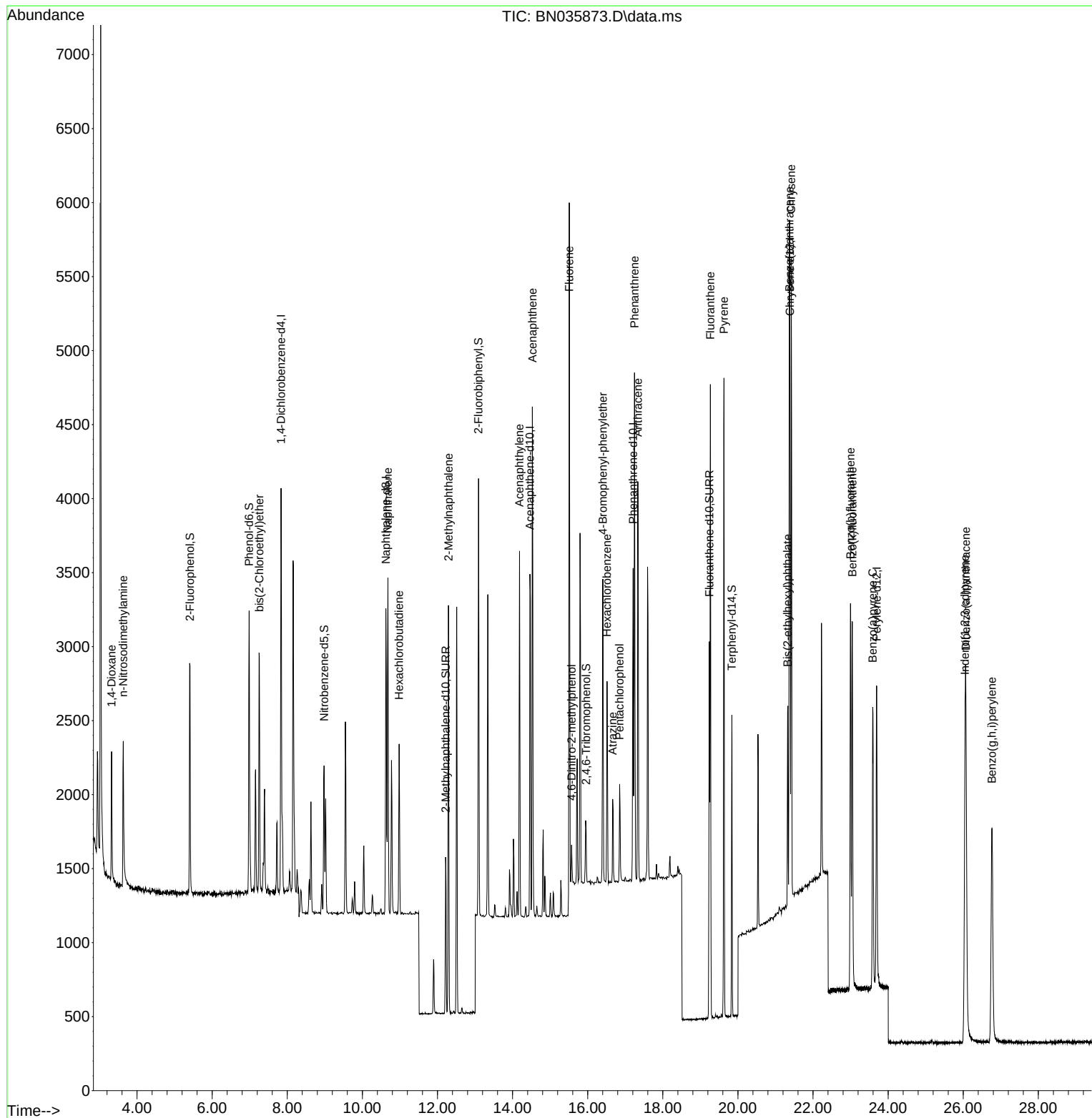
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.836	152	1261	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	2582	0.400	ng	0.00
13) Acenaphthene-d10	14.462	164	1358	0.400	ng	0.00
19) Phenanthrene-d10	17.210	188	2769	0.400	ng	0.00
29) Chrysene-d12	21.384	240	2381	0.400	ng	0.00
35) Perylene-d12	23.694	264	2623	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.409	112	1200	0.388	ng	0.00
5) Phenol-d6	6.983	99	1488	0.387	ng	0.00
8) Nitrobenzene-d5	8.981	82	764	0.374	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	1360	0.393	ng	0.00
14) 2,4,6-Tribromophenol	15.956	330	256	0.393	ng	0.00
15) 2-Fluorobiphenyl	13.093	172	2320	0.389	ng	0.00
27) Fluoranthene-d10	19.238	212	2707	0.394	ng	0.00
31) Terphenyl-d14	19.837	244	1882	0.397	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.322	88	470	0.375	ng	100
3) n-Nitrosodimethylamine	3.632	42	853	0.390	ng	100
6) bis(2-Chloroethyl)ether	7.258	93	1180	0.403	ng	100
9) Naphthalene	10.679	128	2805	0.387	ng	100
10) Hexachlorobutadiene	10.978	225	912	0.388	ng	# 100
12) 2-Methylnaphthalene	12.293	142	1768	0.394	ng	100
16) Acenaphthylene	14.184	152	2470	0.386	ng	100
17) Acenaphthene	14.526	154	1627	0.388	ng	100
18) Fluorene	15.509	166	1775	0.385	ng	100
20) 4,6-Dinitro-2-methylph...	15.572	198	185	0.385	ng	100
21) 4-Bromophenyl-phenylether	16.403	248	743	0.391	ng	100
22) Hexachlorobenzene	16.515	284	986	0.381	ng	100
23) Atrazine	16.664	200	486	0.382	ng	100
24) Pentachlorophenol	16.850	266	327	0.357	ng	100
25) Phenanthrene	17.247	178	3161	0.391	ng	100
26) Anthracene	17.334	178	2792	0.380	ng	100
28) Fluoranthene	19.266	202	3684	0.391	ng	100
30) Pyrene	19.628	202	3740	0.387	ng	100
32) Benzo(a)anthracene	21.375	228	3201	0.381	ng	100
33) Chrysene	21.420	228	3430	0.391	ng	100
34) Bis(2-ethylhexyl)phtha...	21.321	149	1386	0.406	ng	100
36) Indeno(1,2,3-cd)pyrene	26.048	276	3709	0.359	ng	100
37) Benzo(b)fluoranthene	22.998	252	3395	0.377	ng	100
38) Benzo(k)fluoranthene	23.045	252	3282	0.368	ng	100
39) Benzo(a)pyrene	23.589	252	2848	0.365	ng	100
40) Dibenzo(a,h)anthracene	26.071	278	2902	0.353	ng	100
41) Benzo(g,h,i)perylene	26.764	276	3265	0.355	ng	100

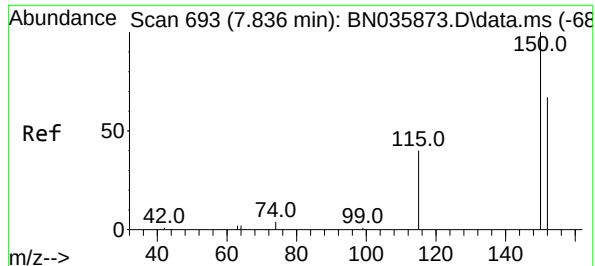
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035873.D
Acq On : 02 Jan 2025 12:40
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jan 02 15:49:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

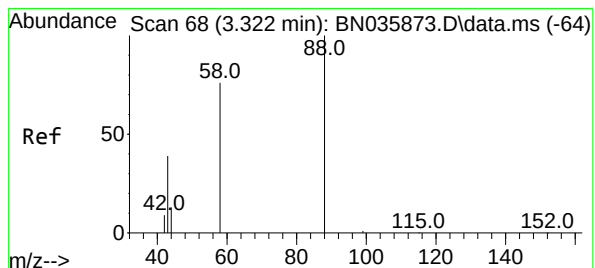
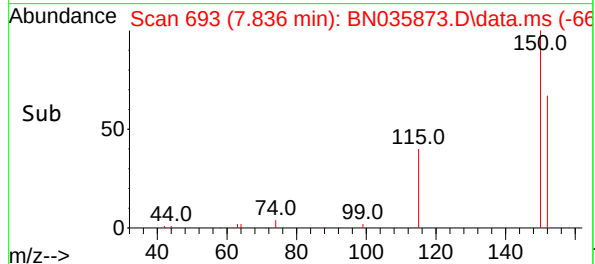
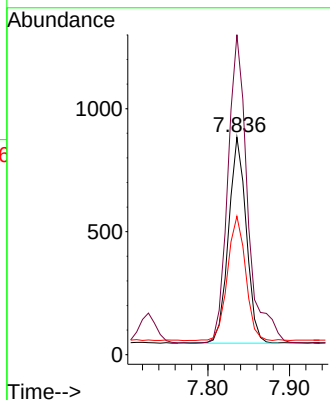
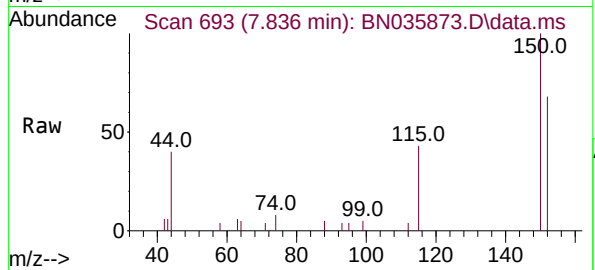




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.836 min Scan# 693
Delta R.T. -0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

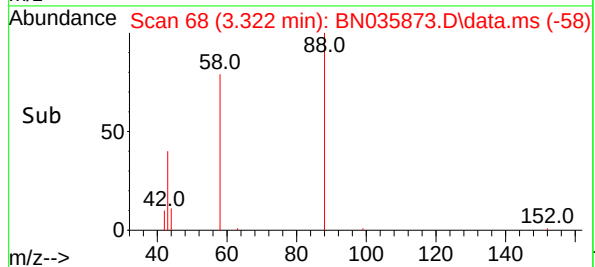
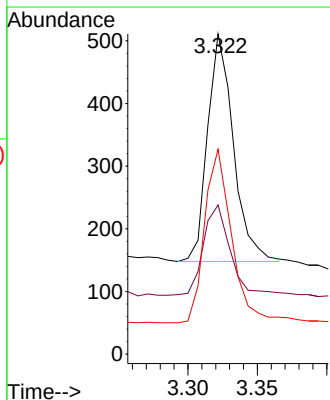
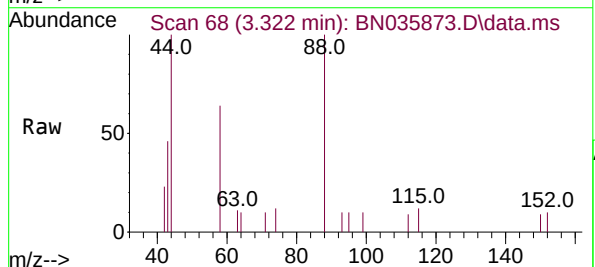
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

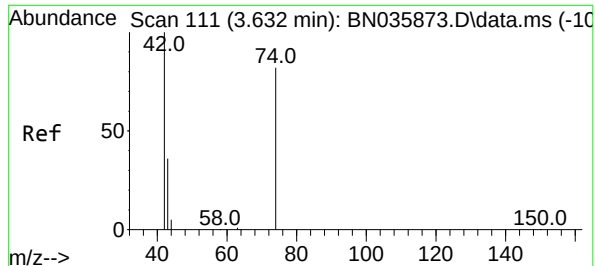
Tgt Ion: 152 Resp: 1261
Ion Ratio Lower Upper
152 100
150 147.2 117.8 176.6
115 63.7 51.0 76.4



#2
1,4-Dioxane
Concen: 0.375 ng
RT: 3.322 min Scan# 68
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion: 88 Resp: 470
Ion Ratio Lower Upper
88 100
43 40.9 32.7 49.1
58 78.7 63.0 94.4

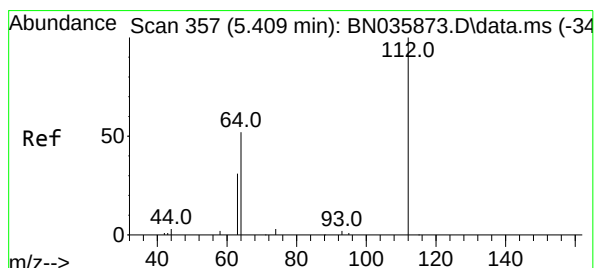
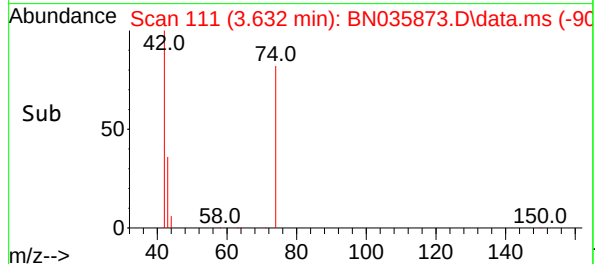
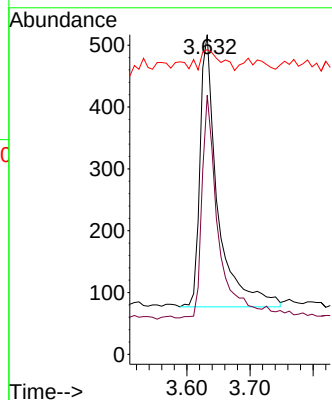
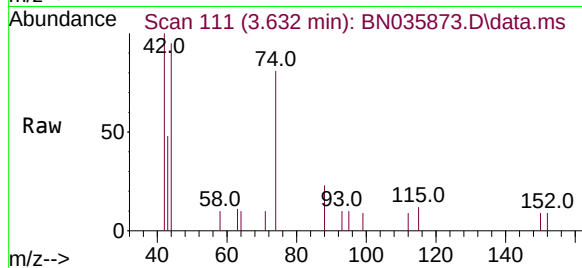




#3
n-Nitrosodimethylamine
Concen: 0.390 ng
RT: 3.632 min Scan# 111
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

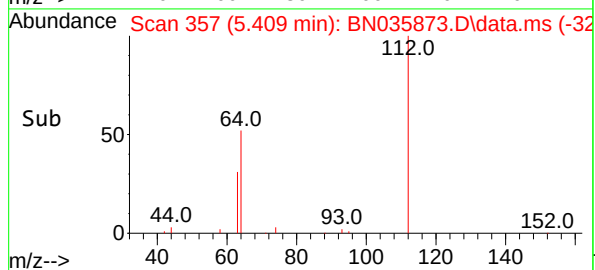
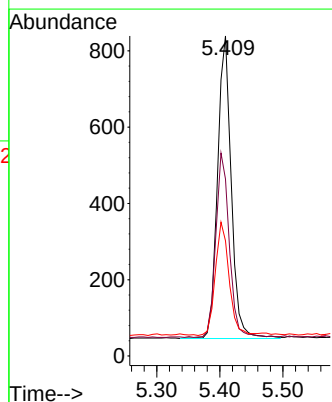
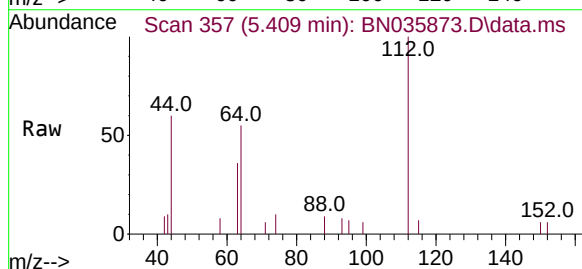
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

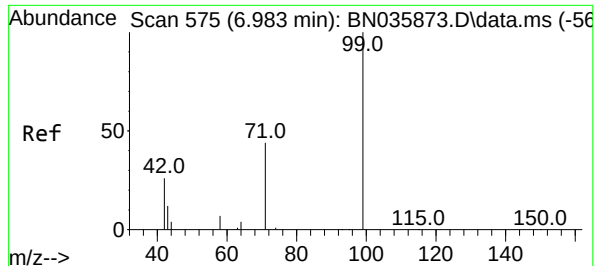
Tgt Ion: 42 Resp: 853
Ion Ratio Lower Upper
42 100
74 77.7 62.2 93.2
44 8.9 7.1 10.7



#4
2-Fluorophenol
Concen: 0.388 ng
RT: 5.409 min Scan# 357
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion: 112 Resp: 1200
Ion Ratio Lower Upper
112 100
64 60.2 48.2 72.2
63 37.5 30.0 45.0

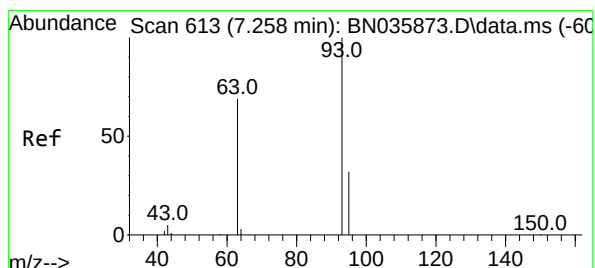
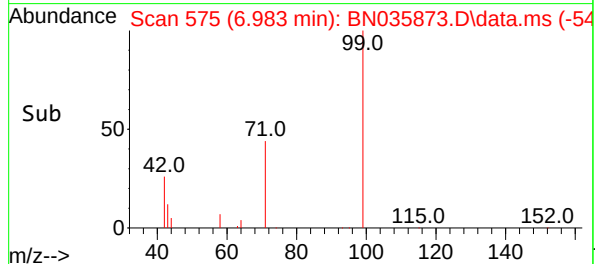
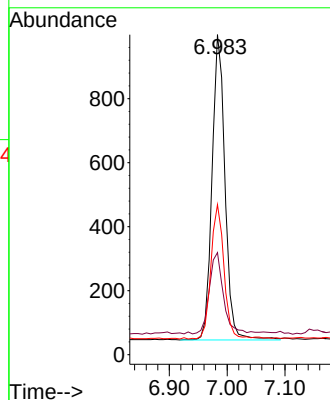
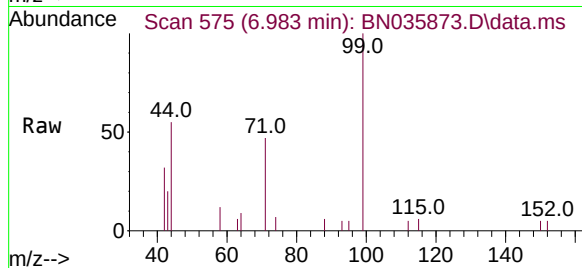




#5
Phenol-d6
Concen: 0.387 ng
RT: 6.983 min Scan# 575
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

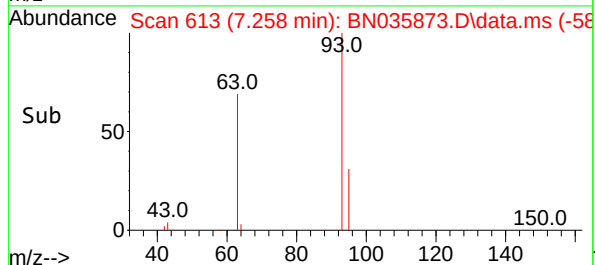
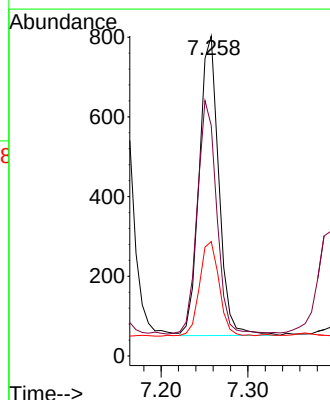
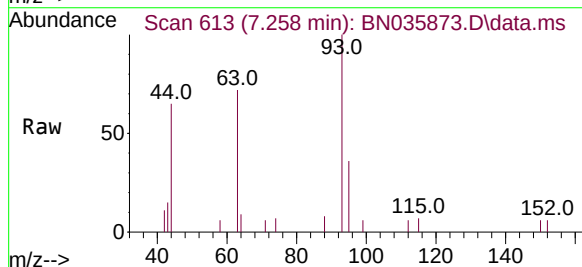
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

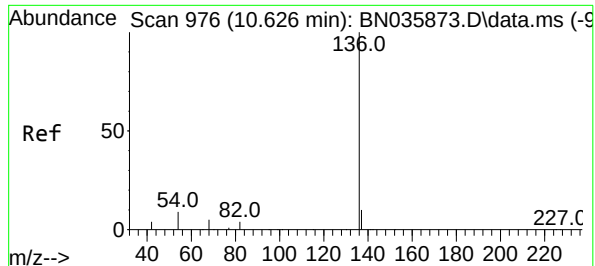
Tgt Ion: 99 Resp: 1488
Ion Ratio Lower Upper
99 100
42 29.4 23.5 35.3
71 44.4 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 7.258 min Scan# 613
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion: 93 Resp: 1180
Ion Ratio Lower Upper
93 100
63 77.5 62.0 93.0
95 31.9 25.5 38.3

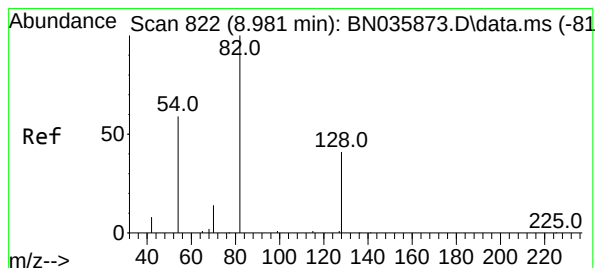
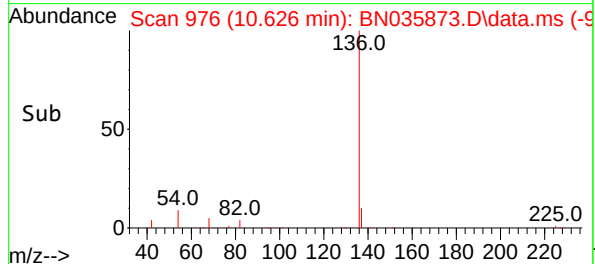
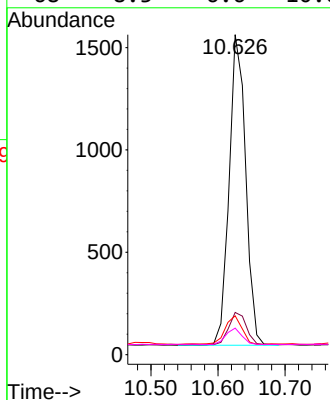
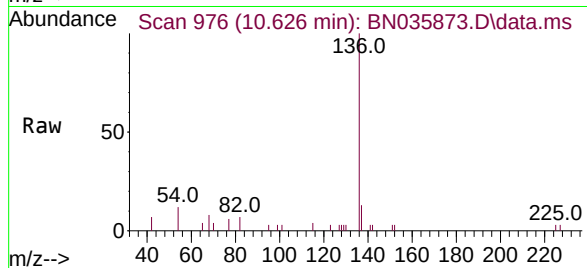




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

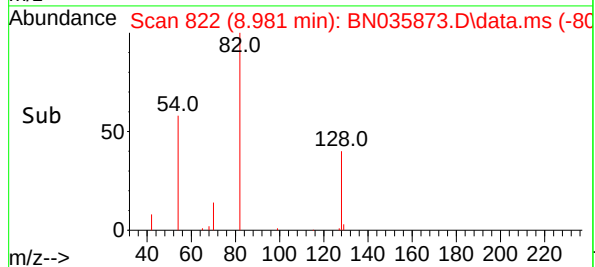
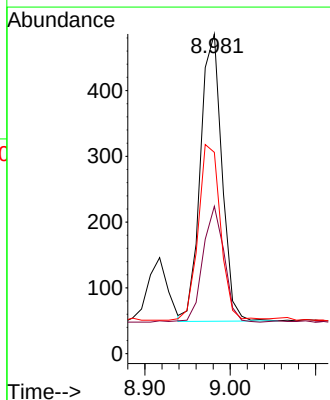
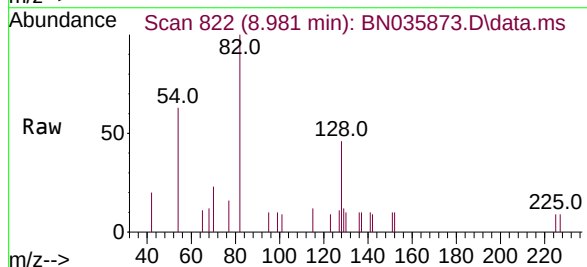
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BNA_N
ClientSampleId :
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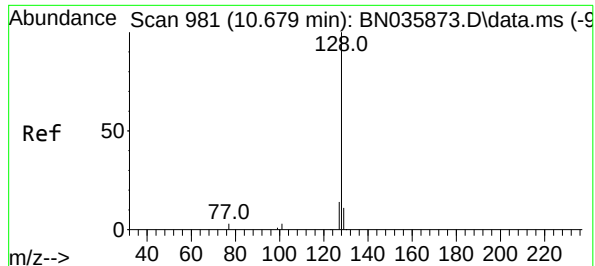
Tgt Ion:	136	Resp:	2582
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.6	15.8
54	12.2	9.8	14.6
68	8.3	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.374 ng
RT: 8.981 min Scan# 822
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion:	82	Resp:	764
Ion	Ratio	Lower	Upper
82	100		
128	46.1	36.9	55.3
54	63.0	50.4	75.6

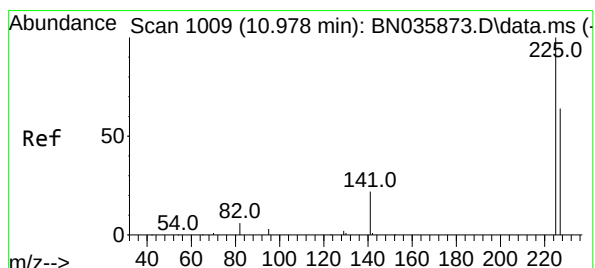
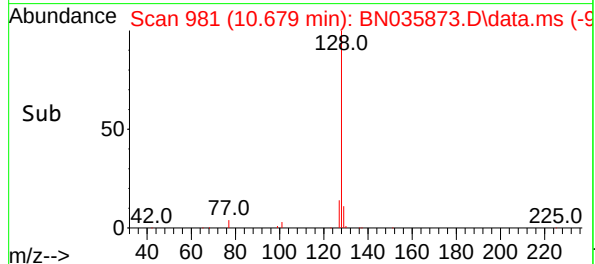
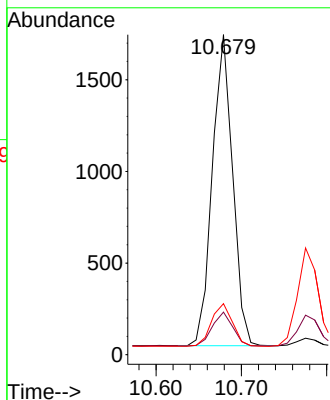
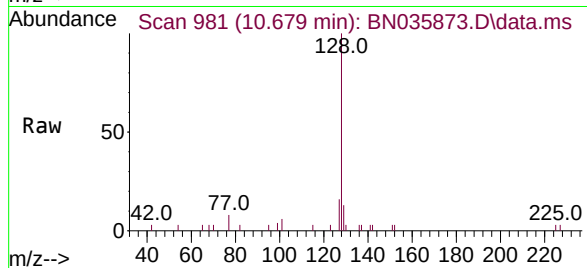




#9
Naphthalene
Concen: 0.387 ng
RT: 10.679 min Scan# 981
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

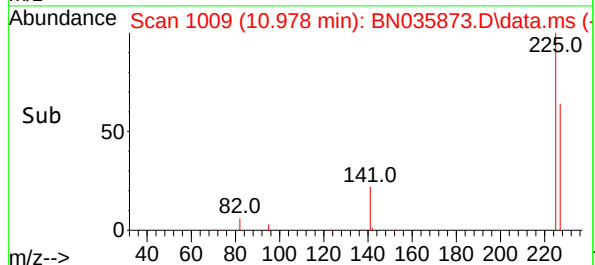
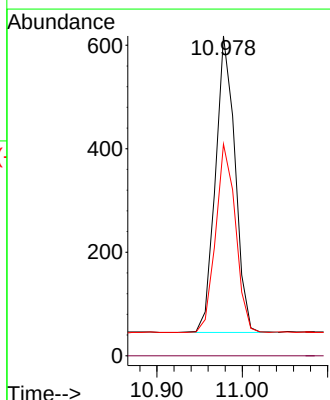
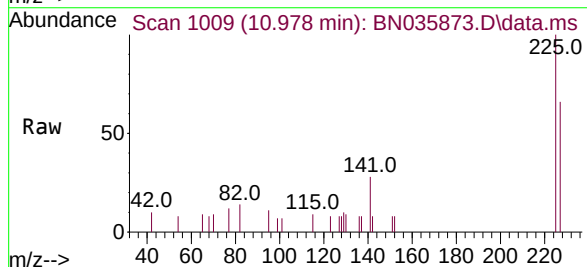
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

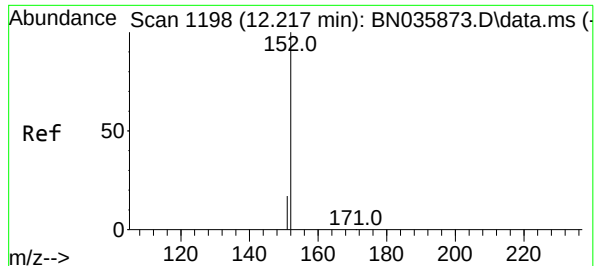
Tgt Ion:	128	Resp:	2805
Ion	Ratio	Lower	Upper
128	100		
129	13.3	10.6	16.0
127	16.0	12.8	19.2



#10
Hexachlorobutadiene
Concen: 0.388 ng
RT: 10.978 min Scan# 1009
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion:	225	Resp:	912
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	51.5	77.3

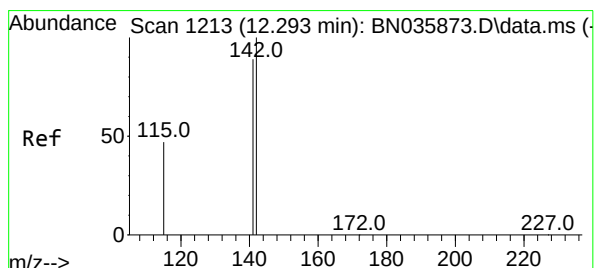
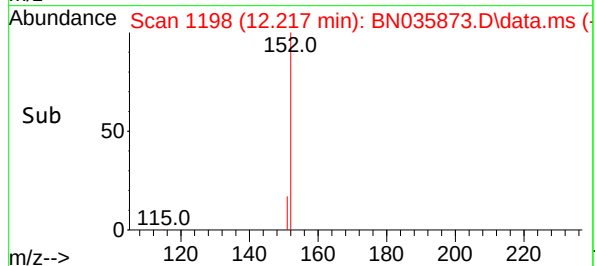
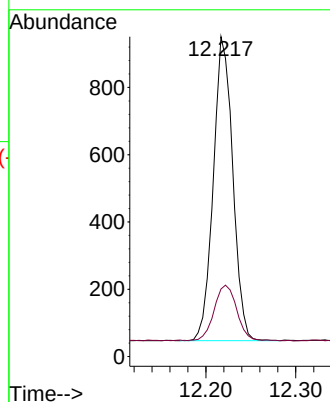
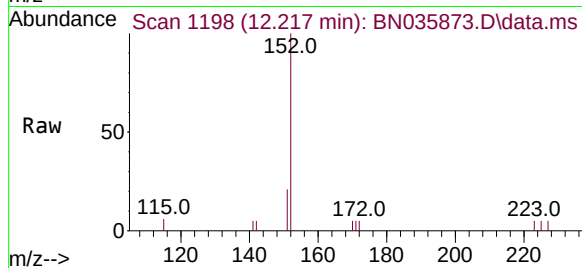




#11
2-Methylnaphthalene-d10
Concen: 0.393 ng
RT: 12.217 min Scan# 1198
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

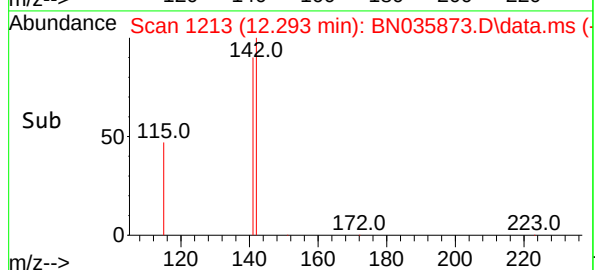
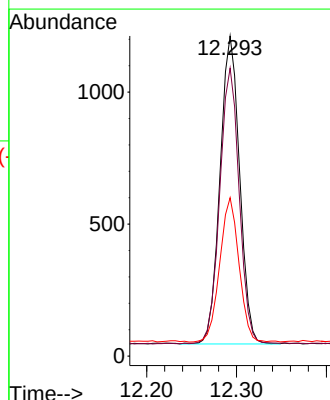
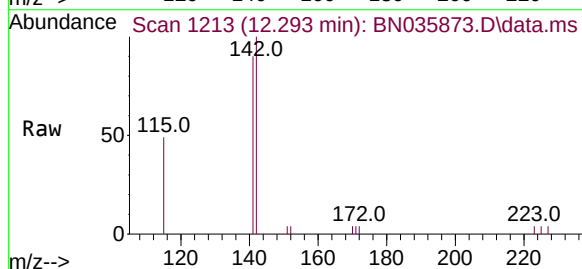
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

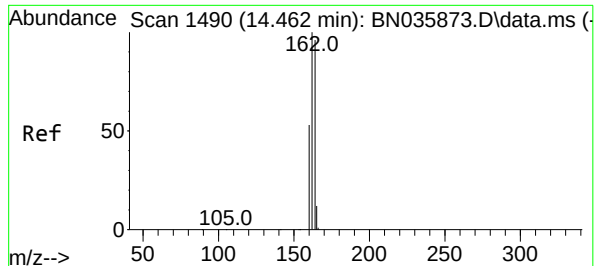
Tgt Ion:152 Resp: 1360
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.394 ng
RT: 12.293 min Scan# 1213
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion:142 Resp: 1768
Ion Ratio Lower Upper
142 100
141 89.9 71.9 107.9
115 49.5 39.6 59.4

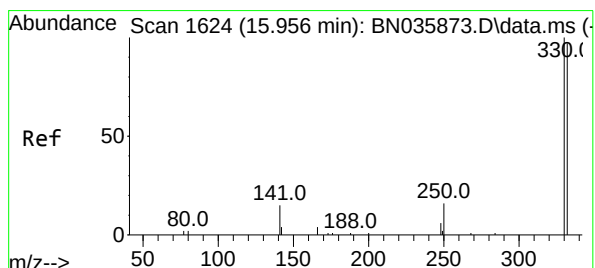
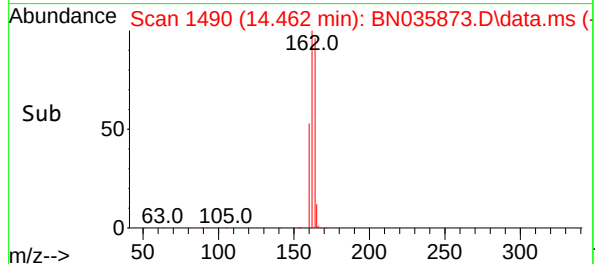
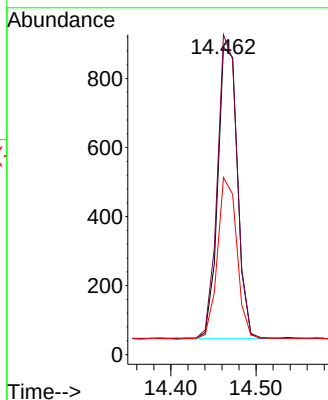
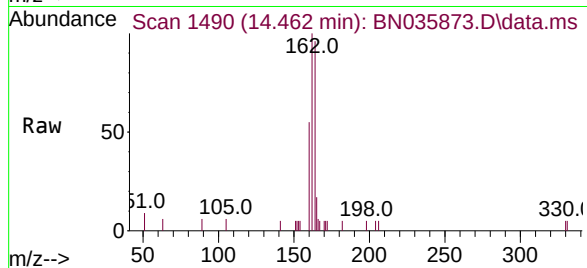




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.462 min Scan# 1490
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

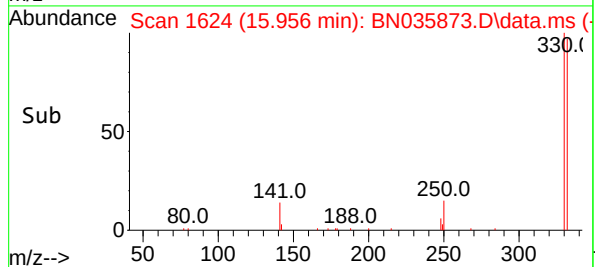
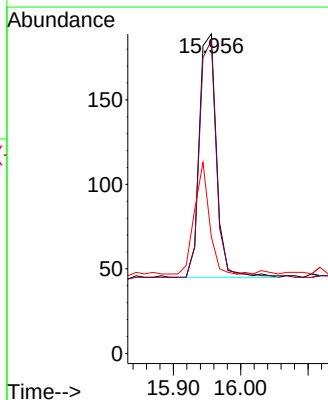
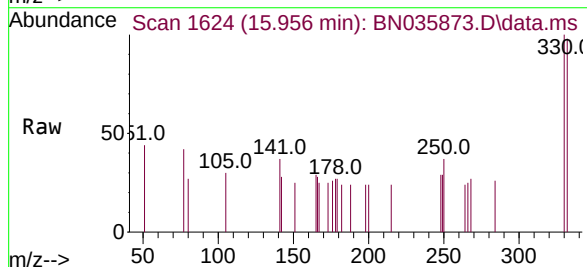
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

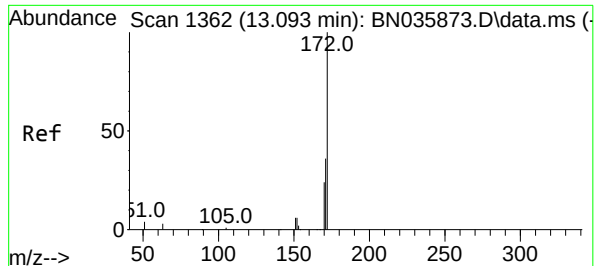
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.9	83.1	124.7
160	57.5	46.0	69.0



#14
2,4,6-Tribromophenol
Concen: 0.393 ng
RT: 15.956 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.2	115.8
141	39.5	31.6	47.4





#15

2-Fluorobiphenyl

Concen: 0.389 ng

RT: 13.093 min Scan# 1362

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

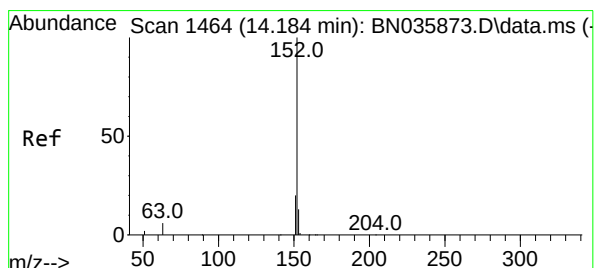
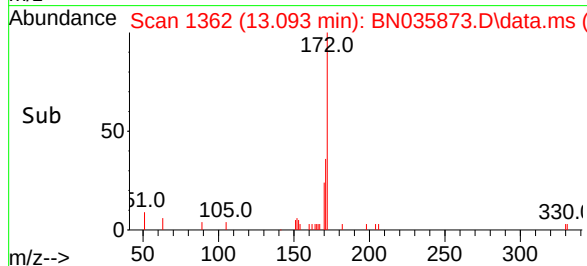
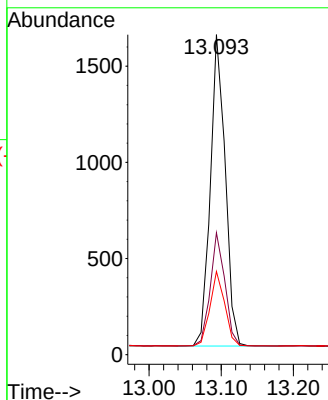
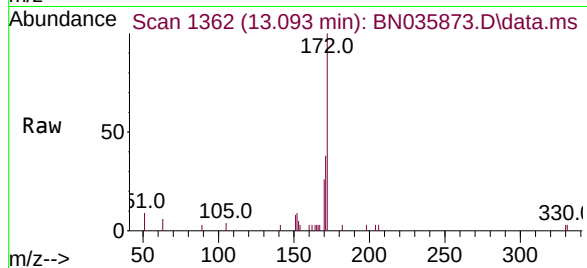
Tgt Ion:172 Resp: 2320

Ion Ratio Lower Upper

172 100

171 38.1 30.5 45.7

170 26.0 20.8 31.2



#16

Acenaphthylene

Concen: 0.386 ng

RT: 14.184 min Scan# 1464

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

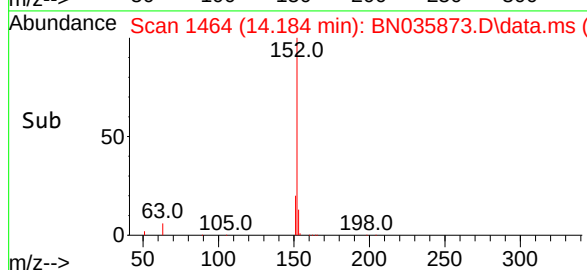
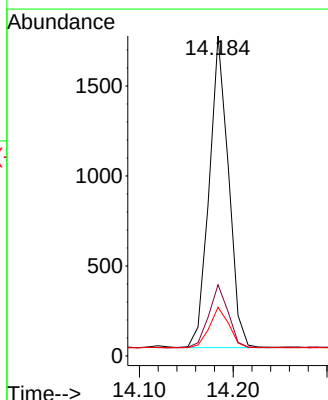
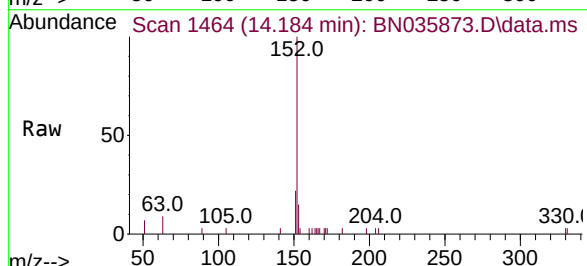
Tgt Ion:152 Resp: 2470

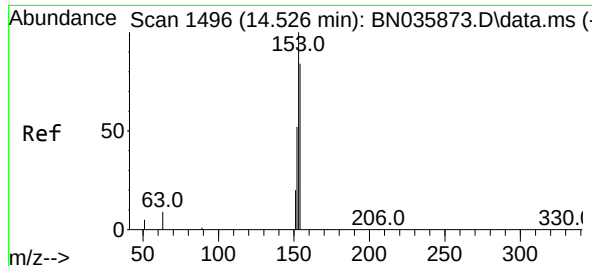
Ion Ratio Lower Upper

152 100

151 20.4 16.3 24.5

153 13.2 10.6 15.8





#17

Acenaphthene

Concen: 0.388 ng

RT: 14.526 min Scan# 1496

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

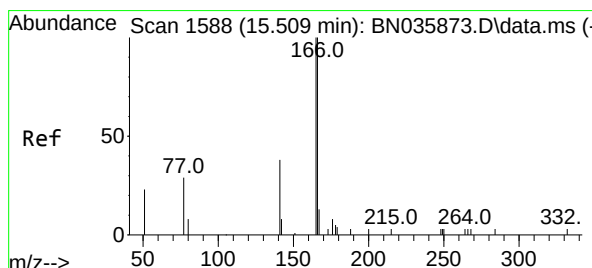
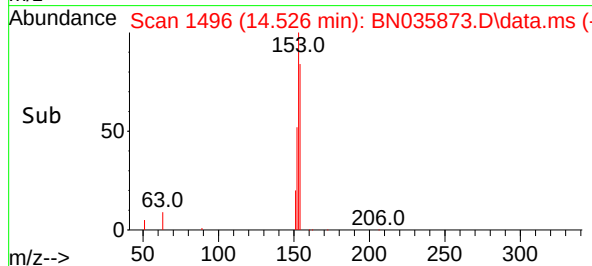
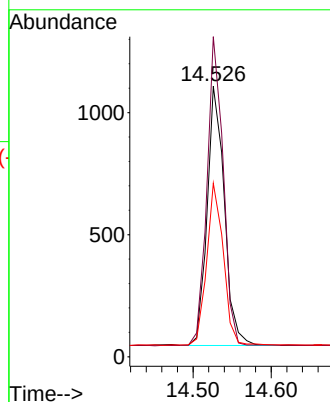
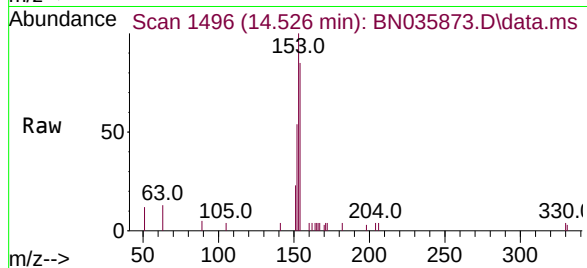
Tgt Ion:154 Resp: 1627

Ion Ratio Lower Upper

154 100

153 113.1 90.5 135.7

152 60.8 48.6 73.0



#18

Fluorene

Concen: 0.385 ng

RT: 15.509 min Scan# 1588

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

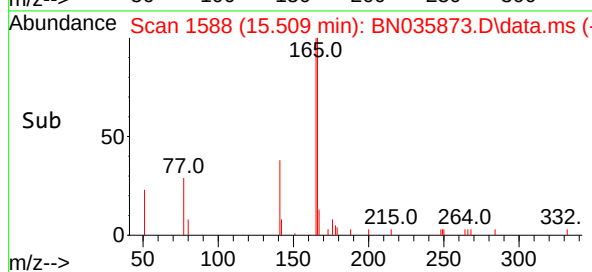
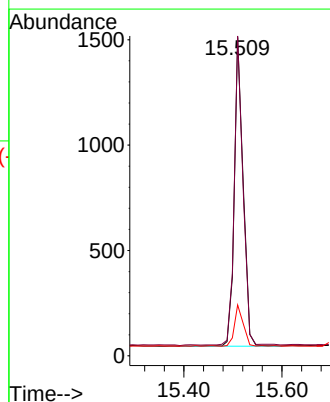
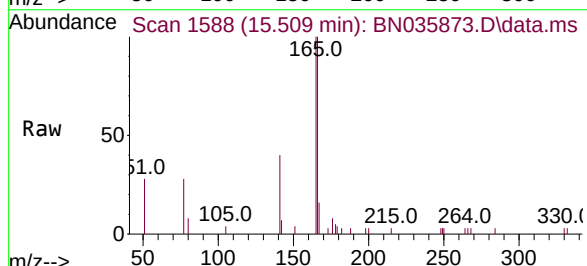
Tgt Ion:166 Resp: 1775

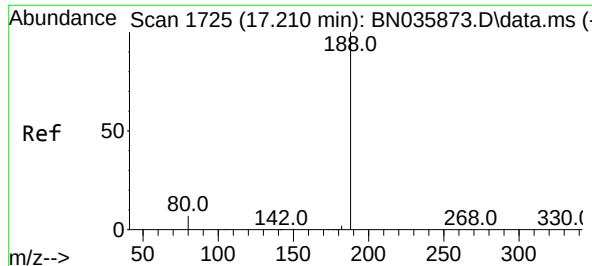
Ion Ratio Lower Upper

166 100

165 100.7 80.6 120.8

167 14.2 11.4 17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

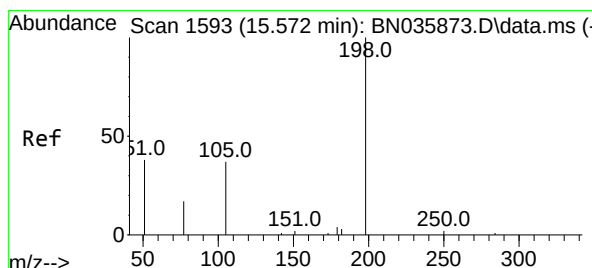
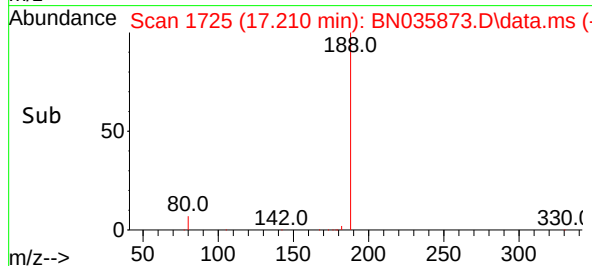
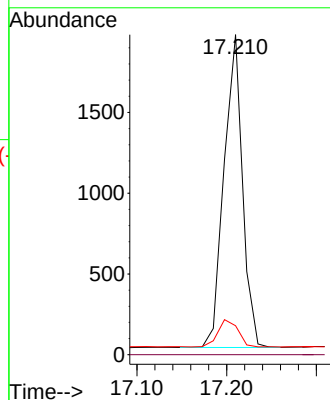
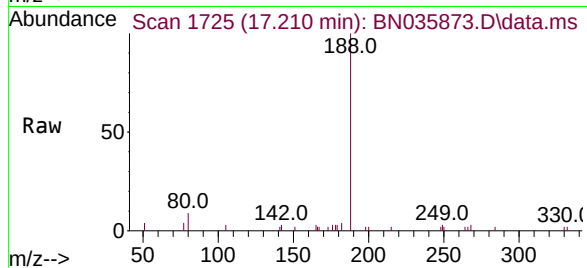
Tgt Ion:188 Resp: 2769

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.1 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.385 ng

RT: 15.572 min Scan# 1593

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

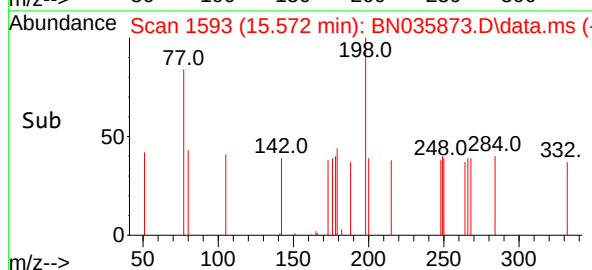
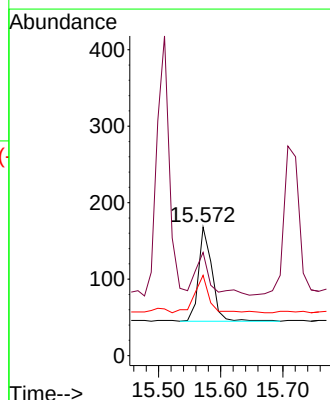
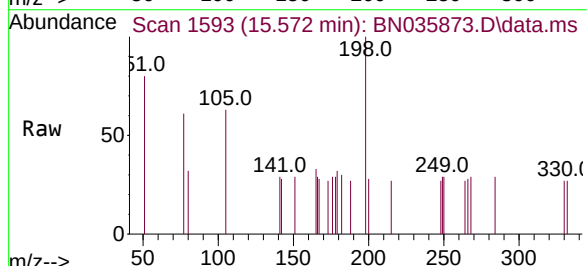
Tgt Ion:198 Resp: 185

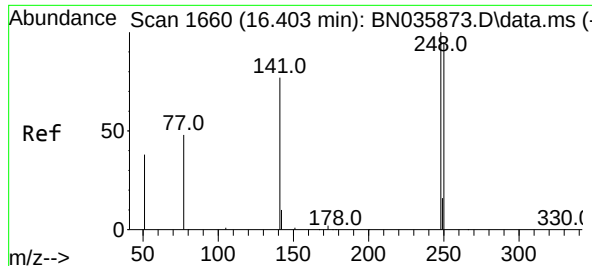
Ion Ratio Lower Upper

198 100

51 80.4 64.3 96.5

105 62.5 50.0 75.0

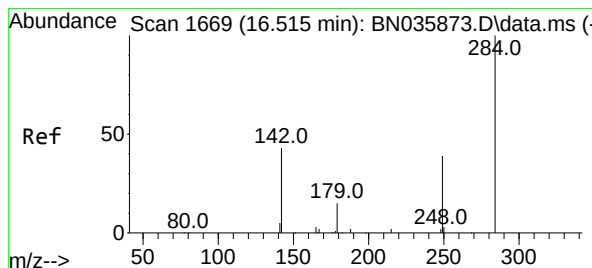
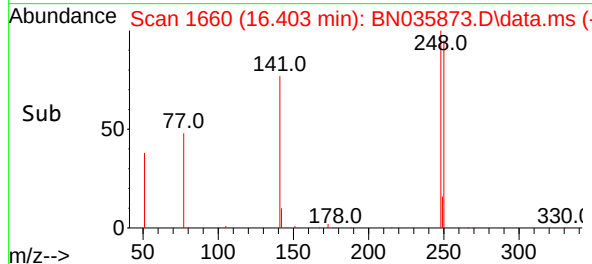
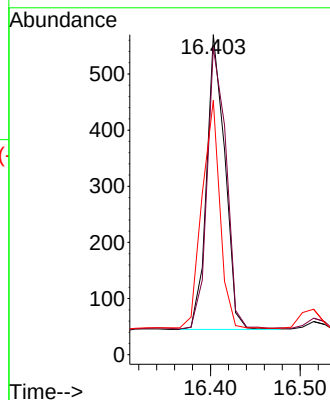
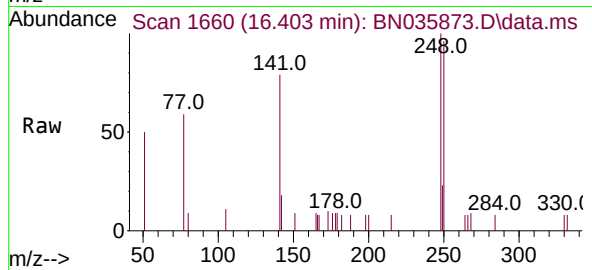




#21
4-Bromophenyl-phenylether
Concen: 0.391 ng
RT: 16.403 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

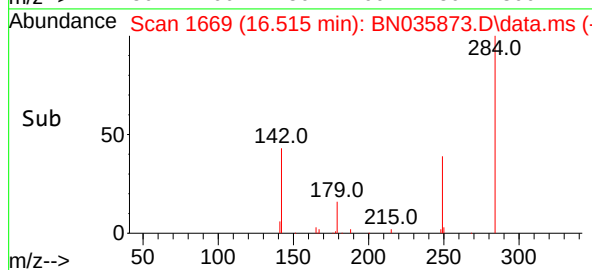
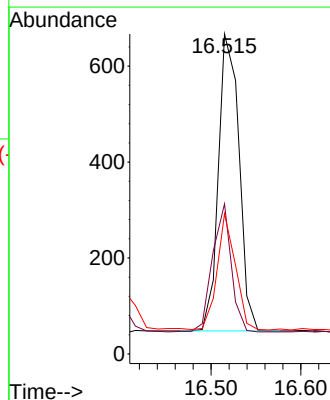
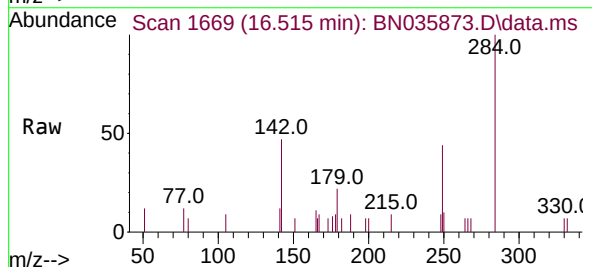
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

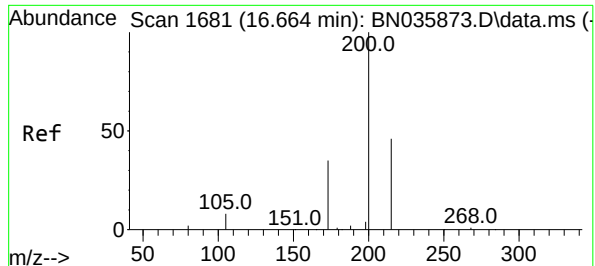
Tgt Ion:	248	Resp:	743
Ion	Ratio	Lower	Upper
248	100		
250	96.0	76.8	115.2
141	79.5	63.6	95.4



#22
Hexachlorobenzene
Concen: 0.381 ng
RT: 16.515 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion:	284	Resp:	986
Ion	Ratio	Lower	Upper
284	100		
142	39.2	31.4	47.0
249	34.8	27.8	41.8

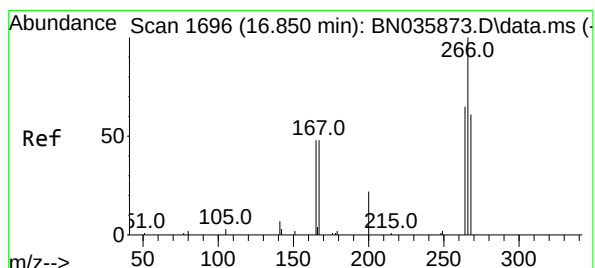
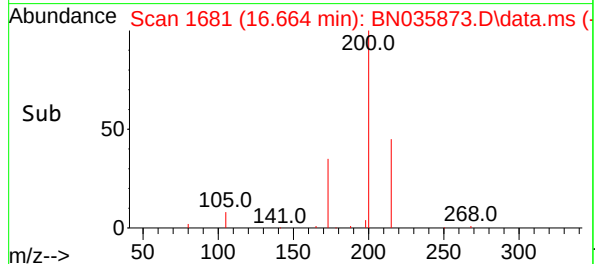
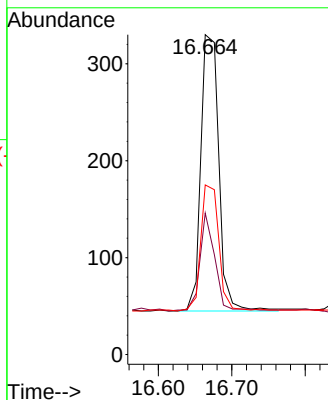
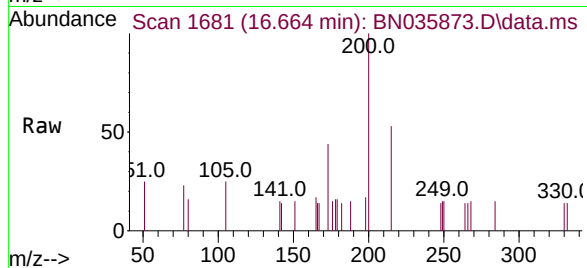




#23
Atrazine
Concen: 0.382 ng
RT: 16.664 min Scan# 1681
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

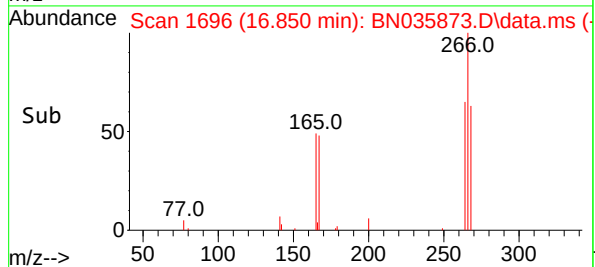
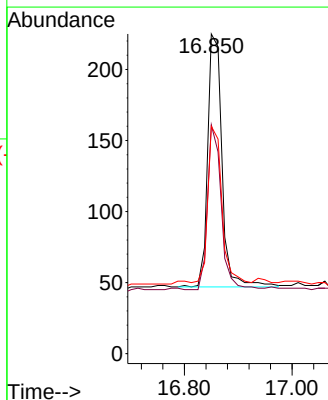
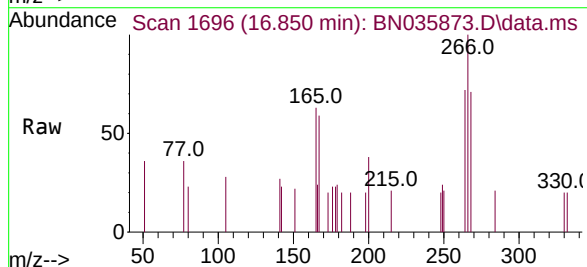
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

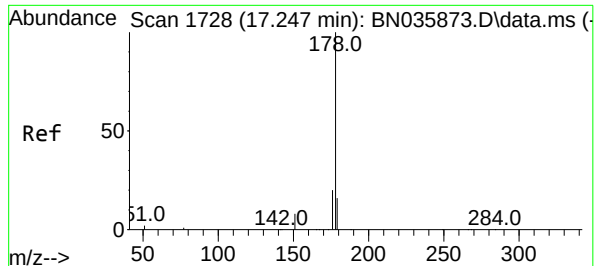
Tgt Ion	Ratio	Lower	Upper
200	100		
173	44.2	35.4	53.0
215	53.0	42.4	63.6



#24
Pentachlorophenol
Concen: 0.357 ng
RT: 16.850 min Scan# 1696
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.4	49.9	74.9
268	62.7	50.2	75.2

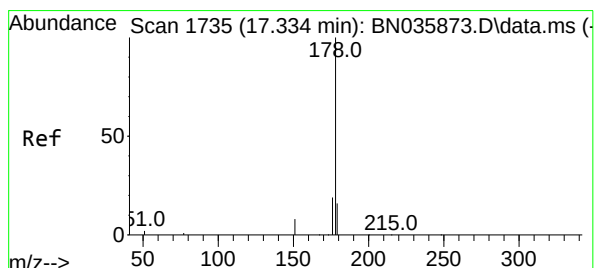
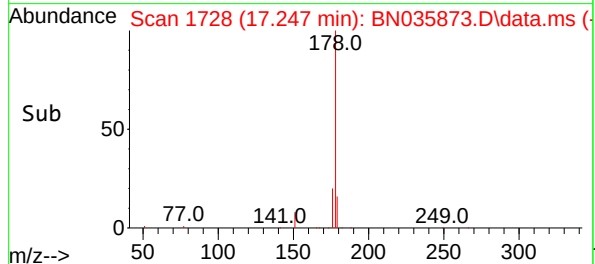
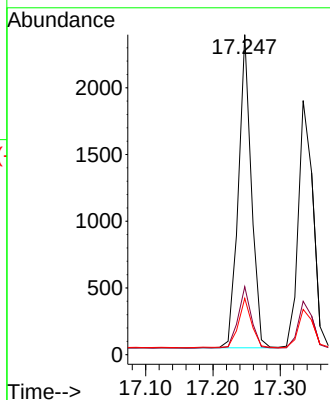
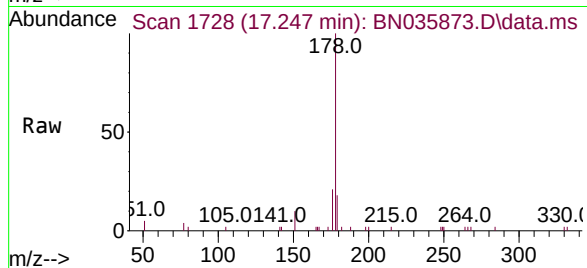




#25
Phenanthrene
Concen: 0.391 ng
RT: 17.247 min Scan# 1728
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

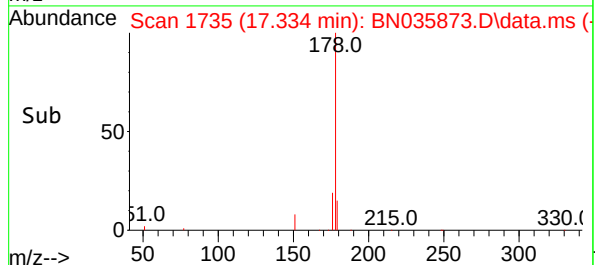
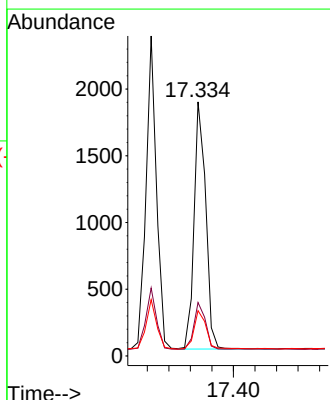
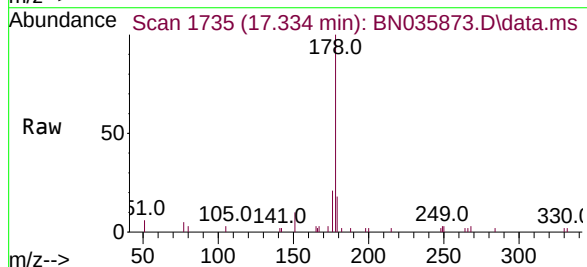
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

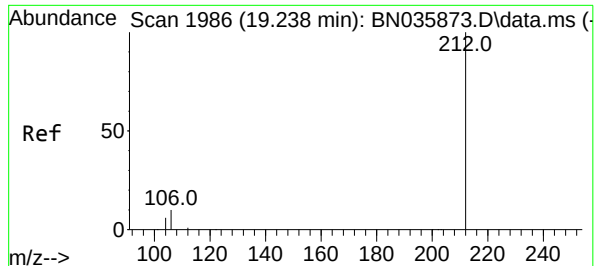
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	16.1	12.9	19.3



#26
Anthracene
Concen: 0.380 ng
RT: 17.334 min Scan# 1735
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	16.3	13.0	19.6





#27

Fluoranthene-d10

Concen: 0.394 ng

RT: 19.238 min Scan# 1986

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

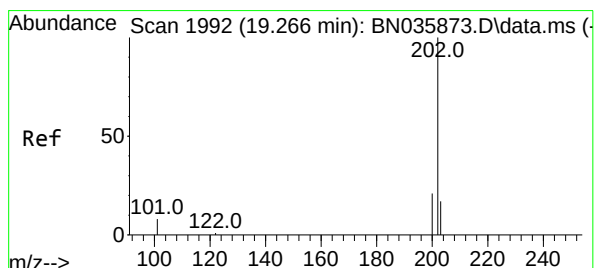
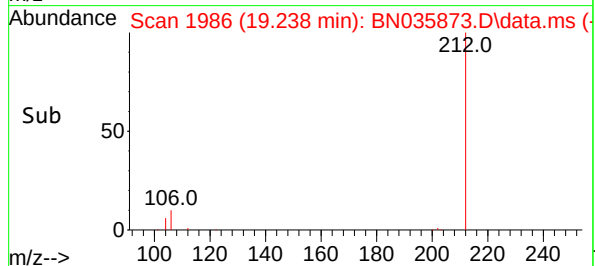
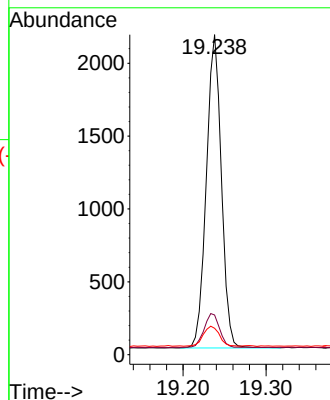
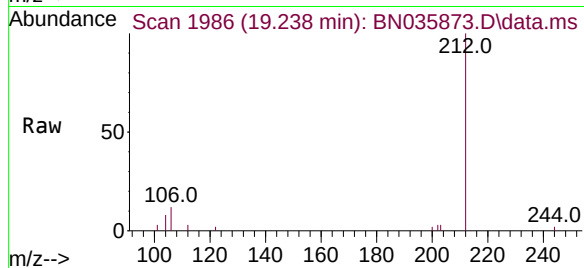
Tgt Ion:212 Resp: 2707

Ion Ratio Lower Upper

212 100

106 11.3 9.0 13.6

104 6.8 5.4 8.2



#28

Fluoranthene

Concen: 0.391 ng

RT: 19.266 min Scan# 1992

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

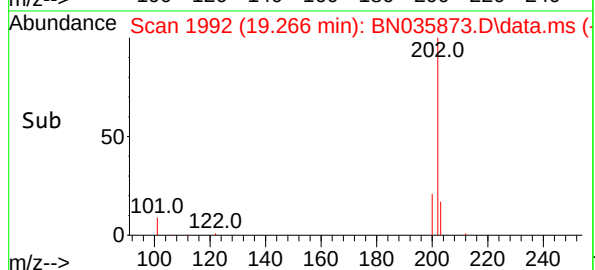
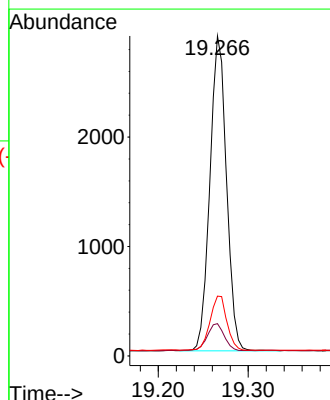
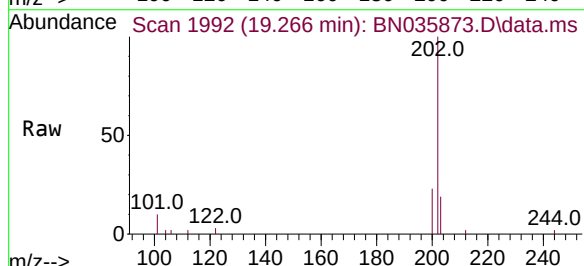
Tgt Ion:202 Resp: 3684

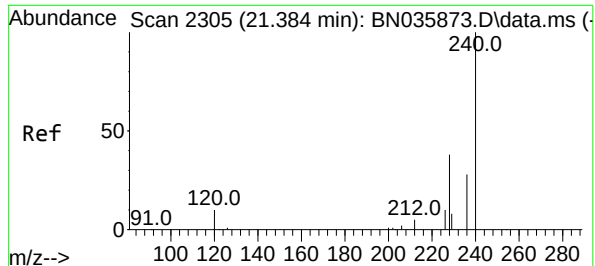
Ion Ratio Lower Upper

202 100

101 9.0 7.2 10.8

203 17.4 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

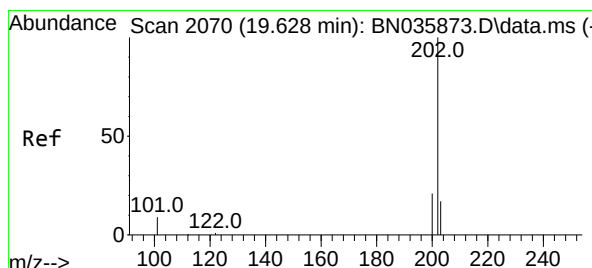
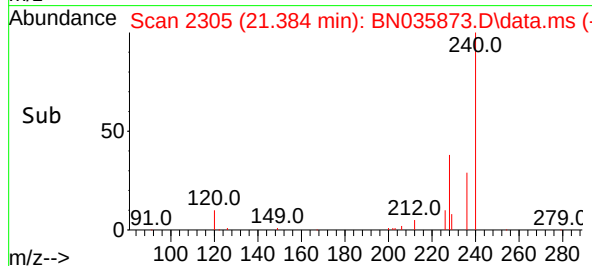
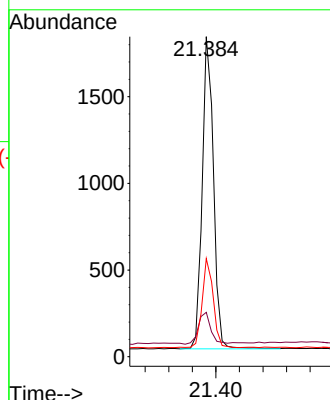
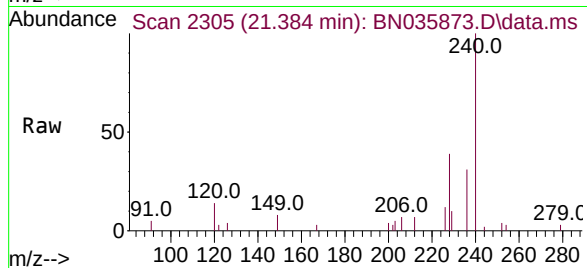
Tgt Ion:240 Resp: 2381

Ion Ratio Lower Upper

240 100

120 13.9 11.1 16.7

236 30.7 24.6 36.8



#30

Pyrene

Concen: 0.387 ng

RT: 19.628 min Scan# 2070

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

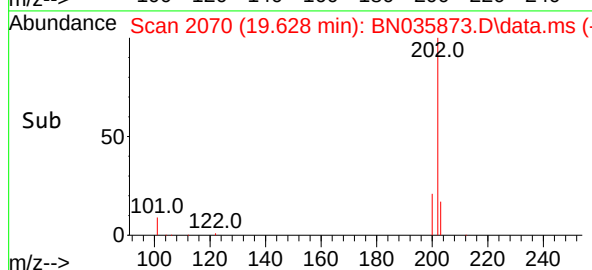
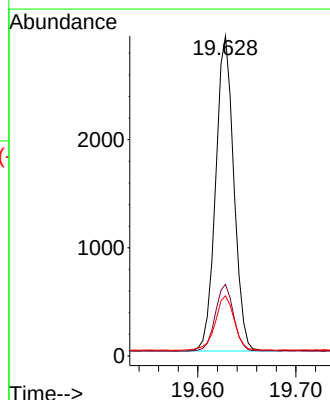
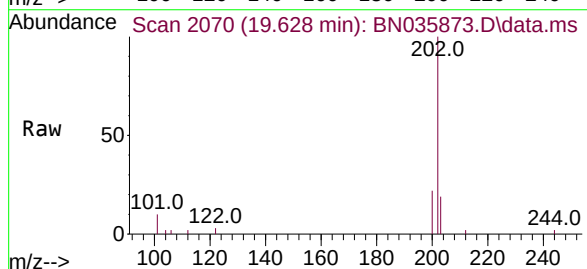
Tgt Ion:202 Resp: 3740

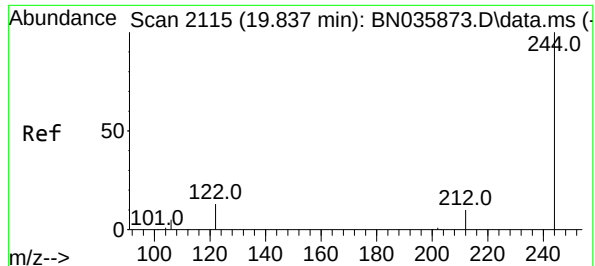
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.6

203 18.3 14.6 22.0

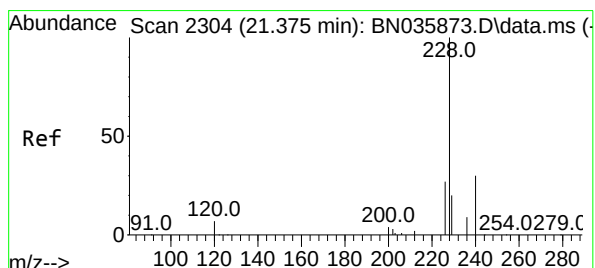
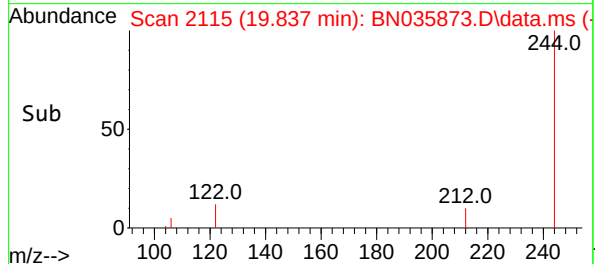
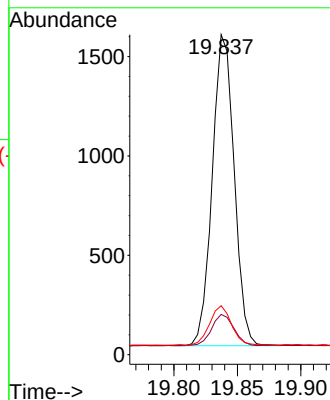
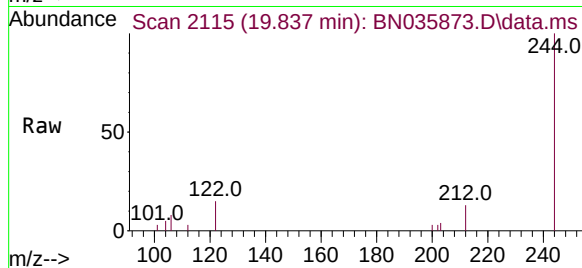




#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.837 min Scan# 2115
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

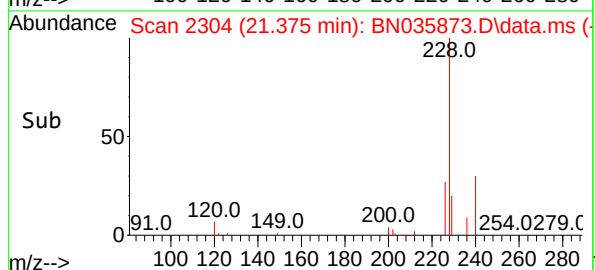
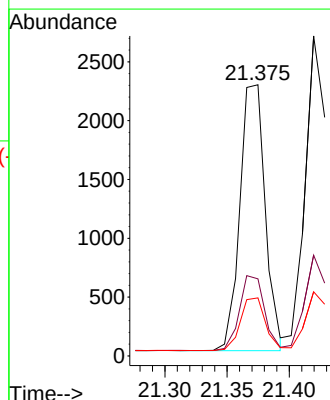
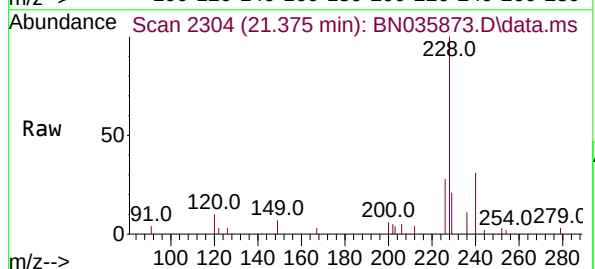
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

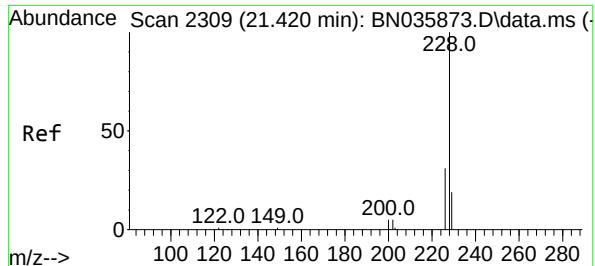
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.6	10.1	15.1
122	15.3	12.2	18.4



#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.375 min Scan# 2304
Delta R.T. 0.000 min
Lab File: BN035873.D
Acq: 02 Jan 2025 12:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.7	34.1
229	21.4	17.1	25.7





#33

Chrysene

Concen: 0.391 ng

RT: 21.420 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

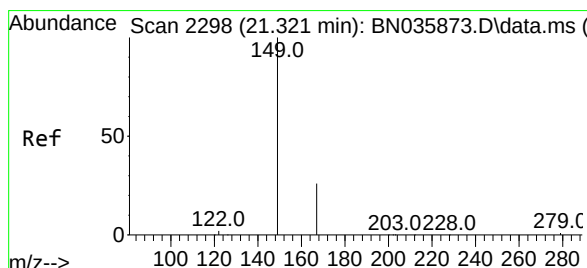
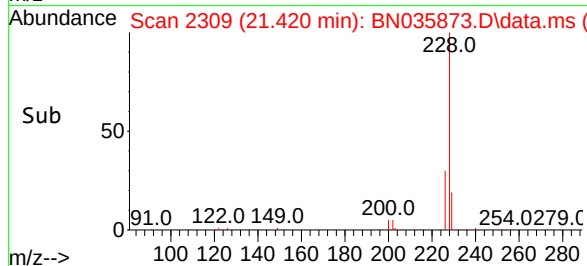
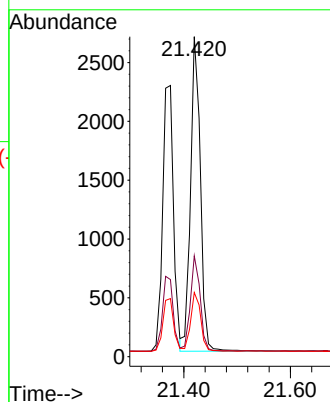
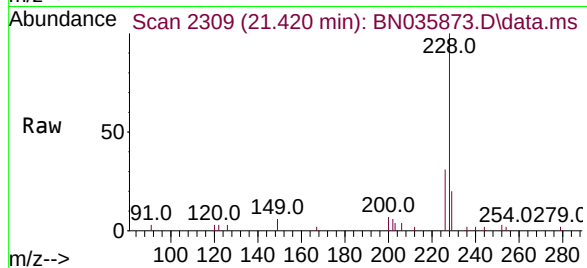
Tgt Ion:228 Resp: 3430

Ion Ratio Lower Upper

228 100

226 31.5 25.2 37.8

229 20.0 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.406 ng

RT: 21.321 min Scan# 2298

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

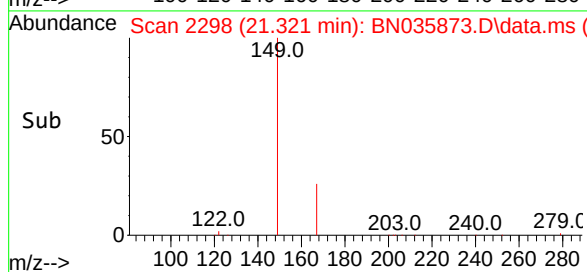
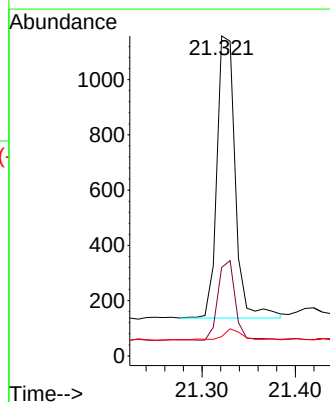
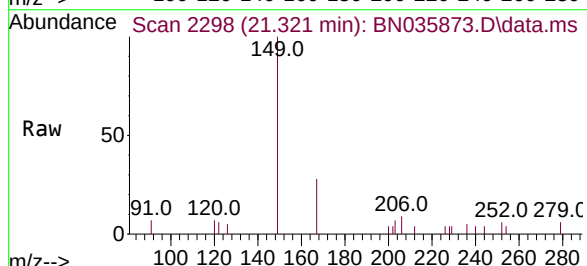
Tgt Ion:149 Resp: 1386

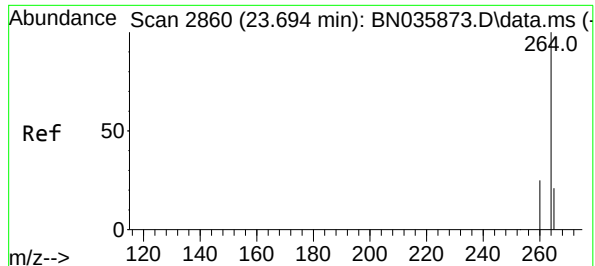
Ion Ratio Lower Upper

149 100

167 26.7 21.4 32.0

279 3.8 3.0 4.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.694 min Scan# 2860

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

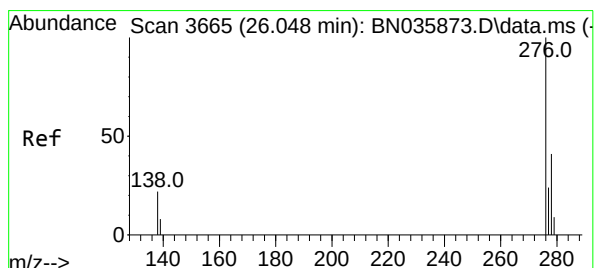
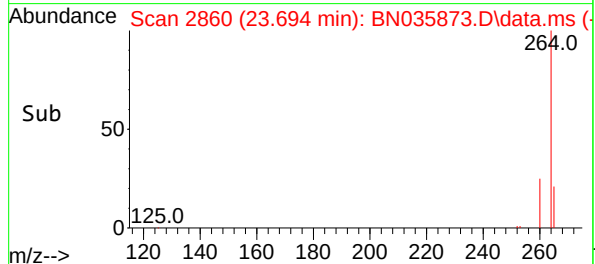
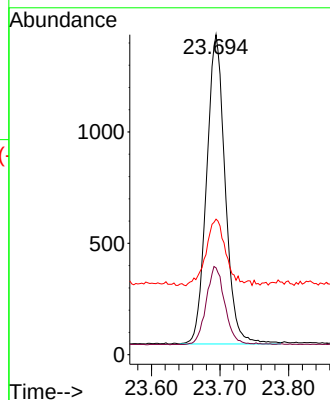
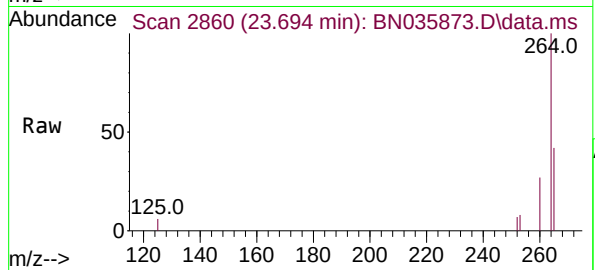
Tgt Ion:264 Resp: 2623

Ion Ratio Lower Upper

264 100

260 27.1 21.7 32.5

265 42.4 33.9 50.9



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.359 ng

RT: 26.048 min Scan# 3665

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

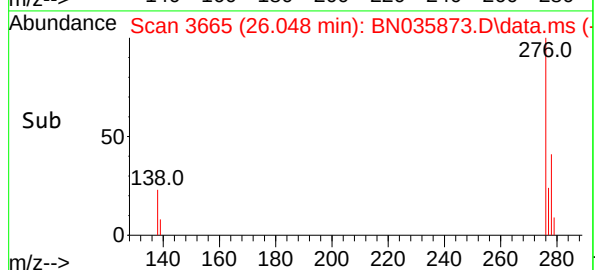
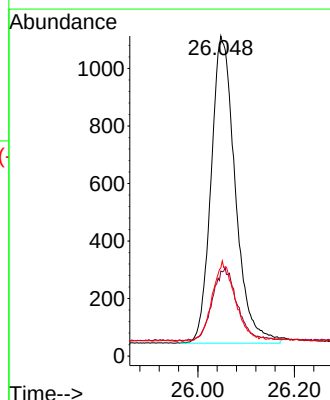
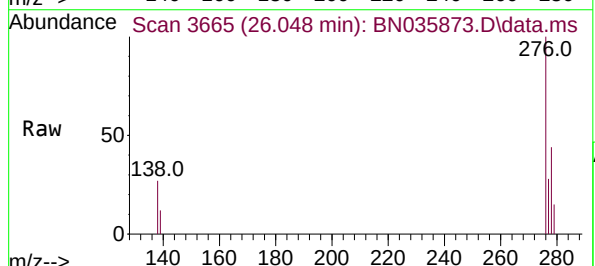
Tgt Ion:276 Resp: 3709

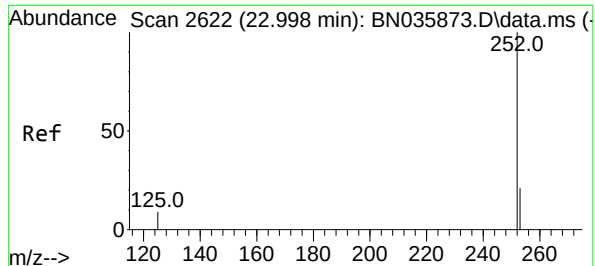
Ion Ratio Lower Upper

276 100

138 23.6 18.9 28.3

277 24.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.377 ng

RT: 22.998 min Scan# 2622

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

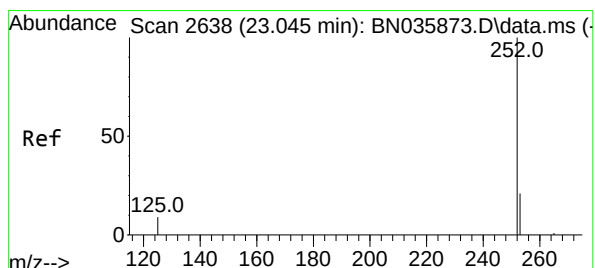
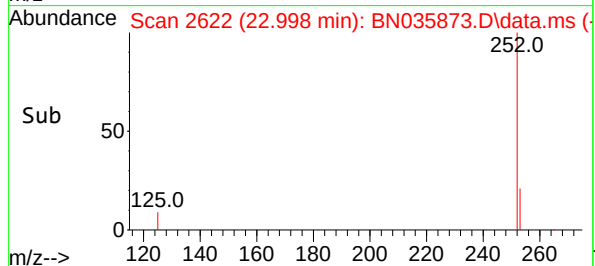
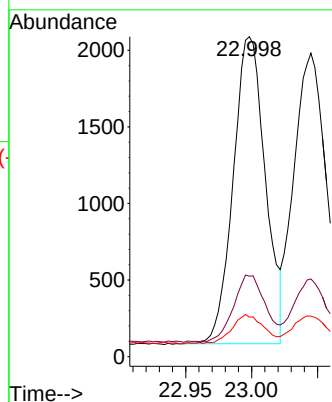
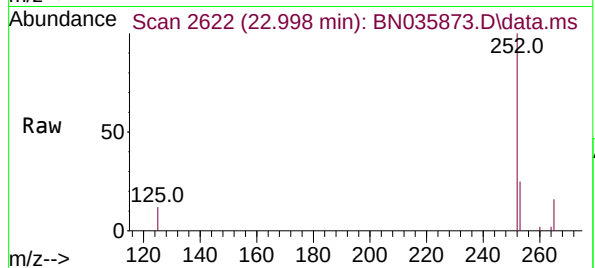
Tgt Ion:252 Resp: 3395

Ion Ratio Lower Upper

252 100

253 25.1 20.1 30.1

125 12.4 9.9 14.9



#38

Benzo(k)fluoranthene

Concen: 0.368 ng

RT: 23.045 min Scan# 2638

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

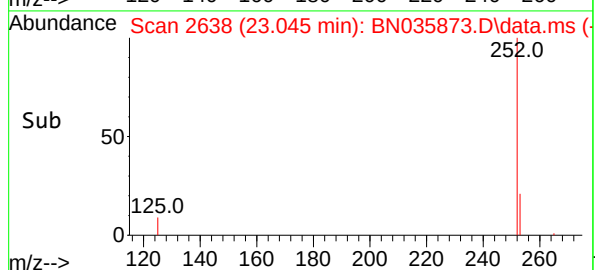
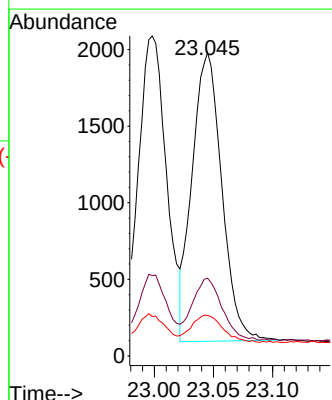
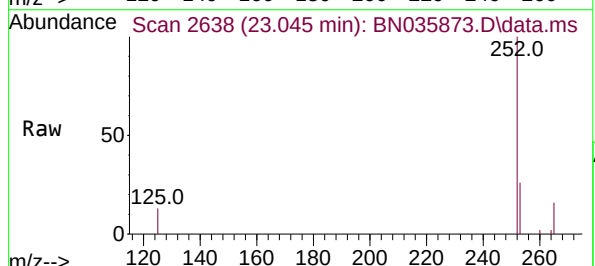
Tgt Ion:252 Resp: 3282

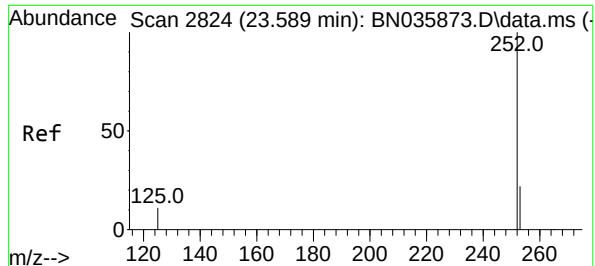
Ion Ratio Lower Upper

252 100

253 25.6 20.5 30.7

125 13.3 10.6 16.0





#39

Benzo(a)pyrene

Concen: 0.365 ng

RT: 23.589 min Scan# 2824

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

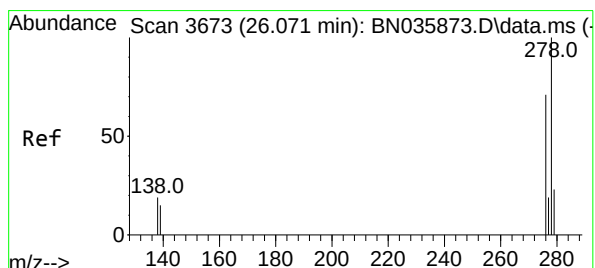
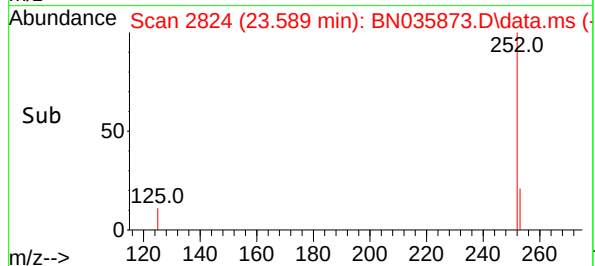
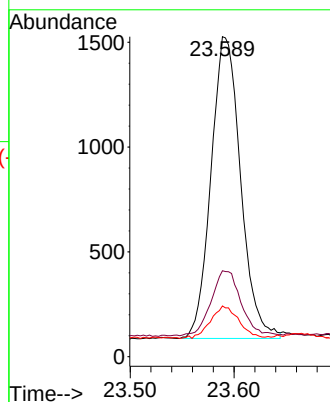
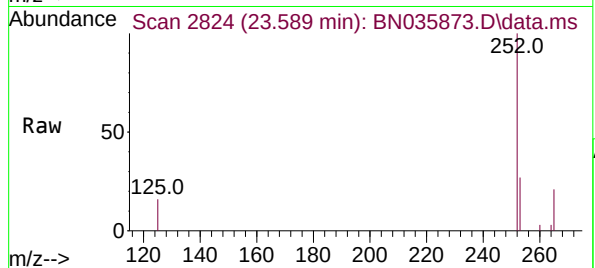
Tgt Ion:252 Resp: 2848

Ion Ratio Lower Upper

252 100

253 26.9 21.5 32.3

125 15.8 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.353 ng

RT: 26.071 min Scan# 3673

Delta R.T. 0.000 min

Lab File: BN035873.D

Acq: 02 Jan 2025 12:40

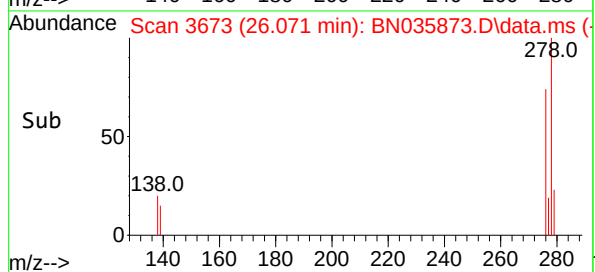
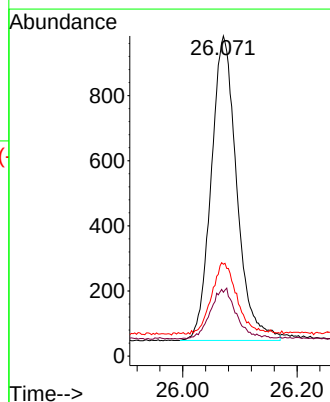
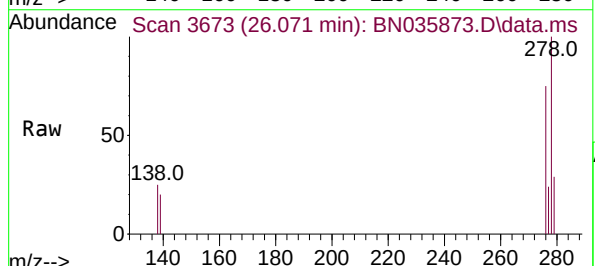
Tgt Ion:278 Resp: 2902

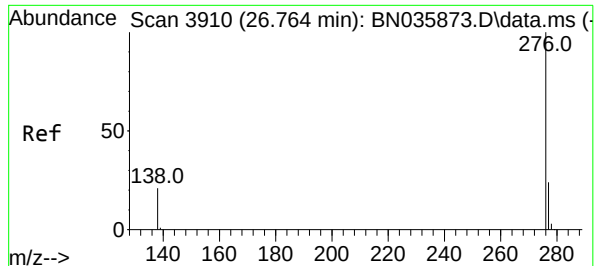
Ion Ratio Lower Upper

278 100

139 19.9 15.9 23.9

279 28.7 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.355 ng

RT: 26.764 min Scan# 3910

Delta R.T. 0.000 min

Lab File: BN035873.D

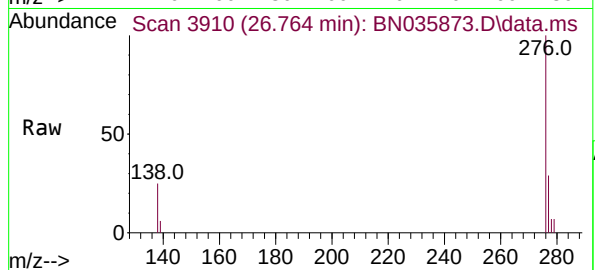
Acq: 02 Jan 2025 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



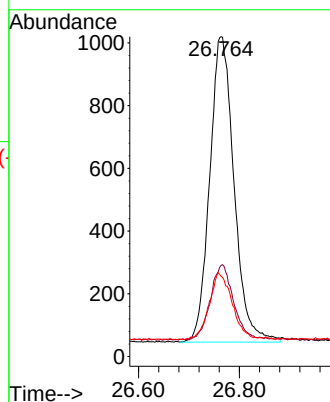
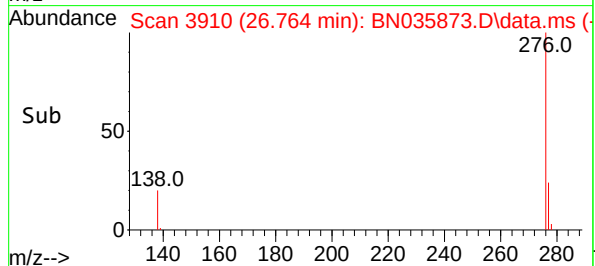
Tgt Ion:276 Resp: 3265

Ion Ratio Lower Upper

276 100

277 28.5 22.8 34.2

138 25.1 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035874.D
 Acq On : 02 Jan 2025 13:16
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Jan 02 15:50:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

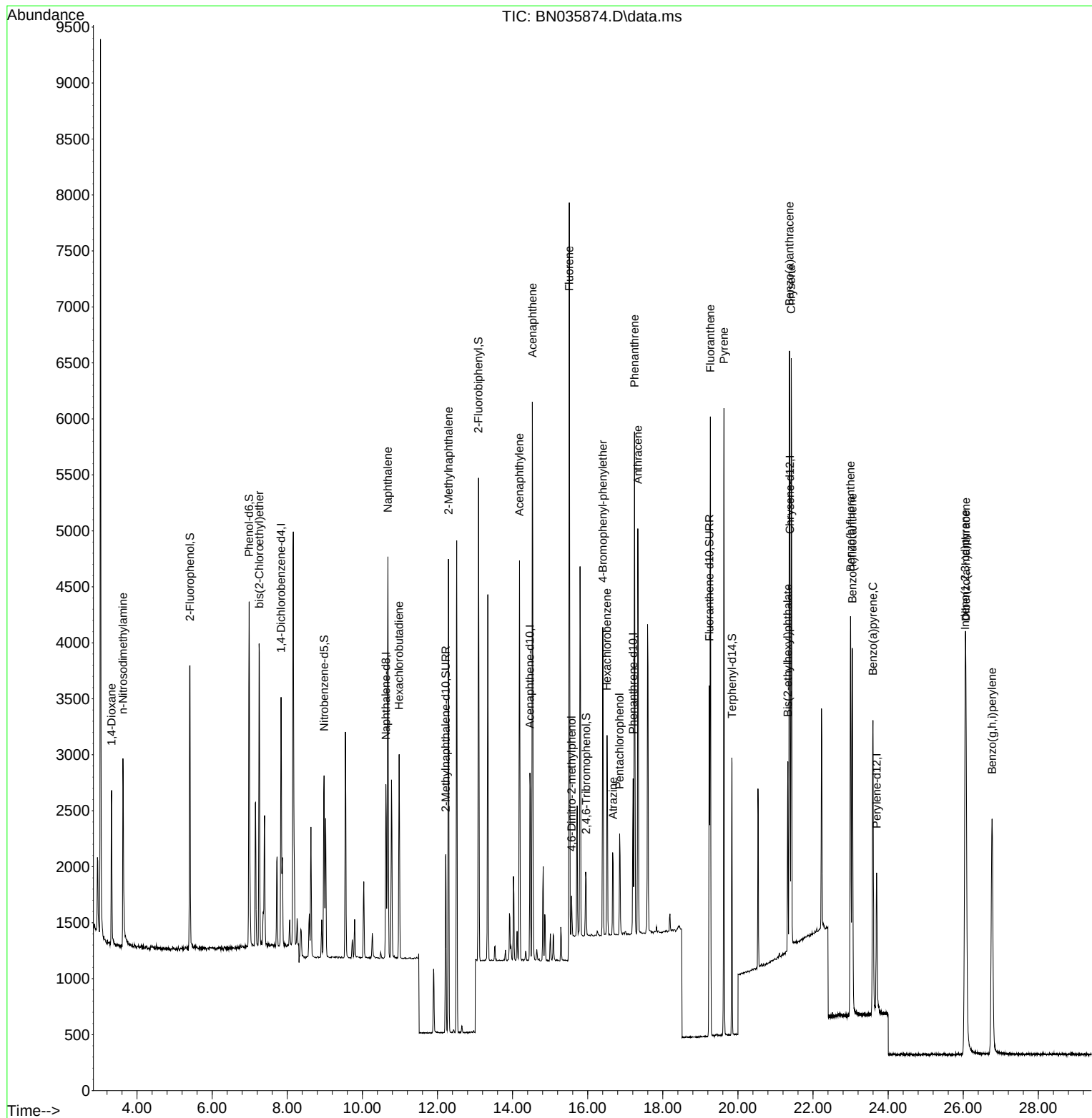
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.835	152	1005	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	2000	0.400	ng	0.00
13) Acenaphthene-d10	14.462	164	985	0.400	ng	0.00
19) Phenanthrene-d10	17.210	188	1825	0.400	ng	0.00
29) Chrysene-d12	21.384	240	1508	0.400	ng	# 0.00
35) Perylene-d12	23.694	264	1682	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.409	112	1925	0.781	ng	0.00
5) Phenol-d6	6.983	99	2406	0.786	ng	0.00
8) Nitrobenzene-d5	8.981	82	1207	0.762	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	2075	0.775	ng	0.00
14) 2,4,6-Tribromophenol	15.956	330	373	0.789	ng	0.00
15) 2-Fluorobiphenyl	13.093	172	3477	0.804	ng	0.00
27) Fluoranthene-d10	19.238	212	3502	0.773	ng	0.00
31) Terphenyl-d14	19.842	244	2344	0.780	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.322	88	779	0.780	ng	Qvalue 99
3) n-Nitrosodimethylamine	3.625	42	1387	0.796	ng	98
6) bis(2-Chloroethyl)ether	7.258	93	1835	0.787	ng	99
9) Naphthalene	10.679	128	4384	0.781	ng	98
10) Hexachlorobutadiene	10.978	225	1454	0.798	ng	# 99
12) 2-Methylnaphthalene	12.293	142	2720	0.783	ng	99
16) Acenaphthylene	14.184	152	3623	0.781	ng	99
17) Acenaphthene	14.526	154	2427	0.798	ng	97
18) Fluorene	15.509	166	2558	0.764	ng	99
20) 4,6-Dinitro-2-methylph...	15.571	198	251	0.792	ng	85
21) 4-Bromophenyl-phenylether	16.403	248	973	0.778	ng	97
22) Hexachlorobenzene	16.515	284	1320	0.774	ng	99
23) Atrazine	16.676	200	624	0.743	ng	# 87
24) Pentachlorophenol	16.850	266	444	0.735	ng	97
25) Phenanthrene	17.247	178	4177	0.784	ng	99
26) Anthracene	17.334	178	3772	0.778	ng	98
28) Fluoranthene	19.266	202	4790	0.772	ng	100
30) Pyrene	19.628	202	4863	0.794	ng	100
32) Benzo(a)anthracene	21.375	228	4245	0.799	ng	99
33) Chrysene	21.419	228	4376	0.787	ng	99
34) Bis(2-ethylhexyl)phtha...	21.330	149	1633	0.755	ng	99
36) Indeno(1,2,3-cd)pyrene	26.050	276	5308	0.800	ng	99
37) Benzo(b)fluoranthene	22.998	252	4545	0.787	ng	99
38) Benzo(k)fluoranthene	23.045	252	4521	0.790	ng	97
39) Benzo(a)pyrene	23.595	252	3913	0.782	ng	96
40) Dibenzo(a,h)anthracene	26.071	278	4209	0.798	ng	98
41) Benzo(g,h,i)perylene	26.767	276	4732	0.802	ng	96

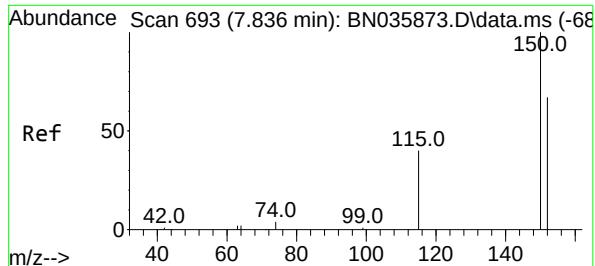
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035874.D
Acq On : 02 Jan 2025 13:16
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jan 02 15:50:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

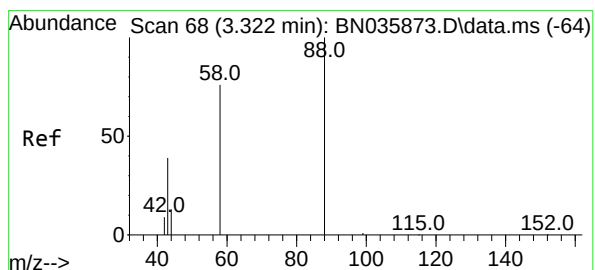
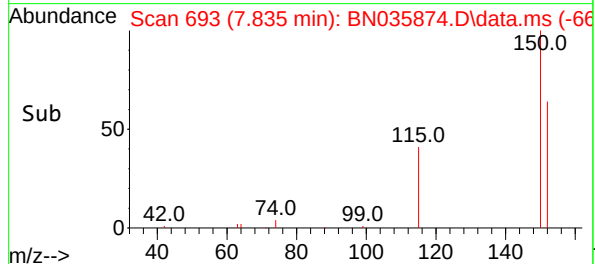
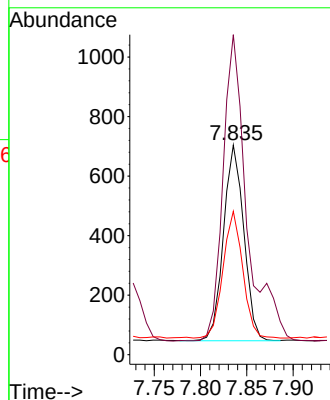
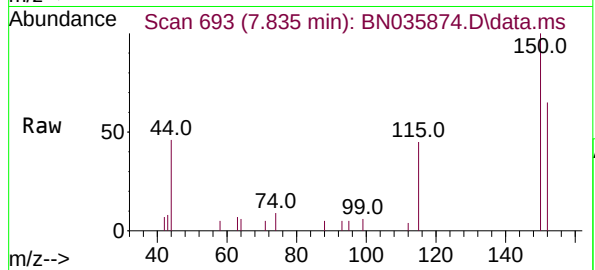




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.835 min Scan# 69
Delta R.T. -0.001 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

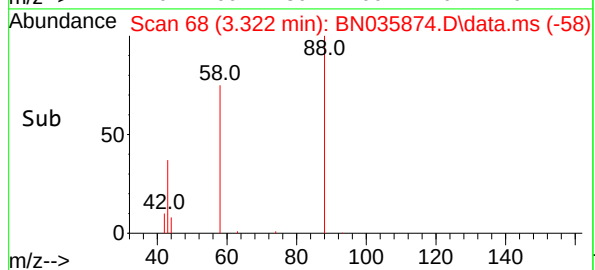
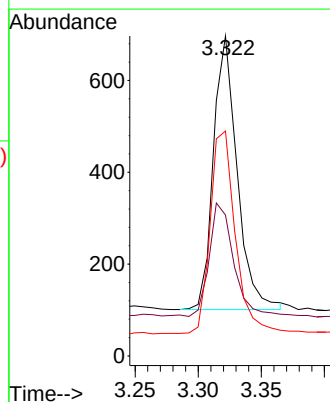
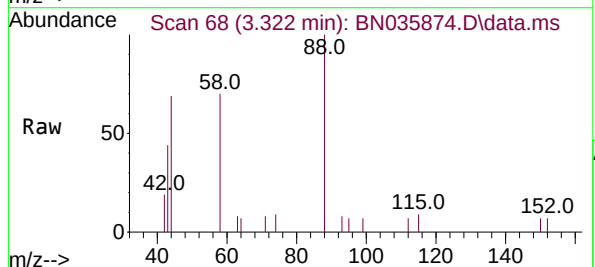
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

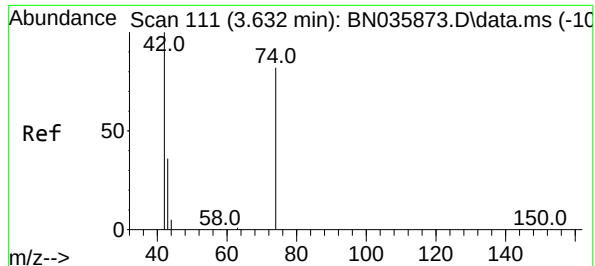
Tgt Ion:152 Resp: 1005
Ion Ratio Lower Upper
152 100
150 152.7 117.8 176.6
115 68.5 51.0 76.4



#2
1,4-Dioxane
Concen: 0.780 ng
RT: 3.322 min Scan# 68
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion: 88 Resp: 779
Ion Ratio Lower Upper
88 100
43 41.3 32.7 49.1
58 78.2 63.0 94.4

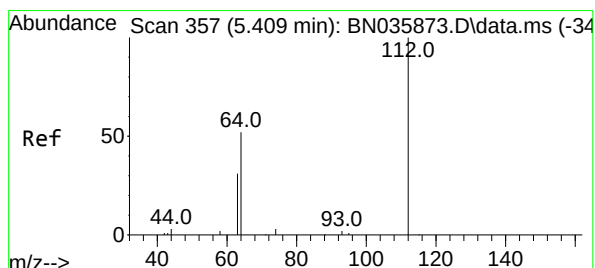
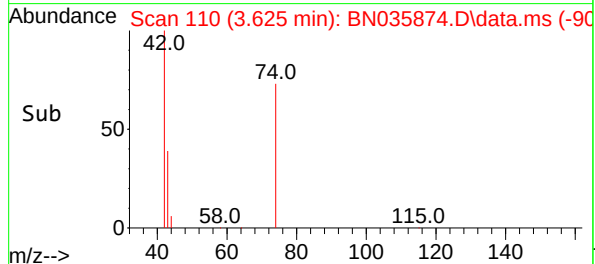
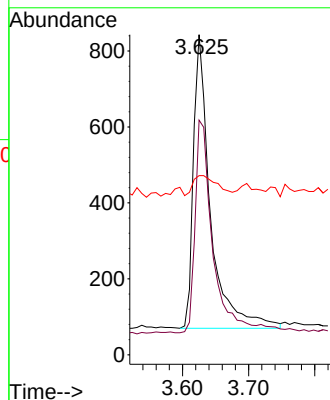
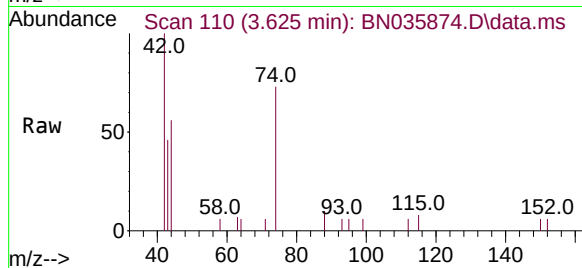




#3
n-Nitrosodimethylamine
Concen: 0.796 ng
RT: 3.625 min Scan# 111
Delta R.T. -0.007 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

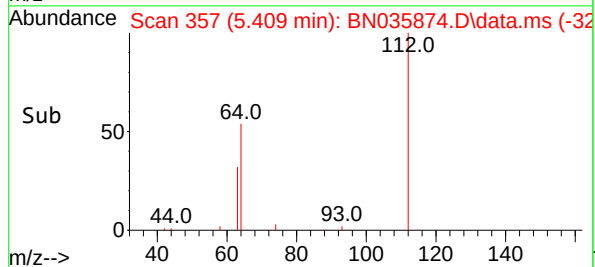
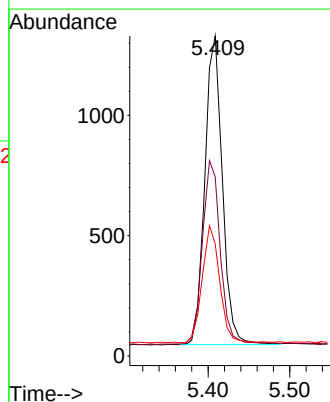
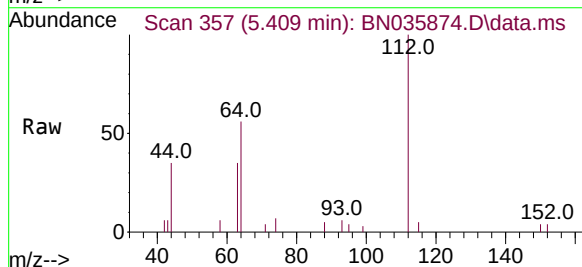
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

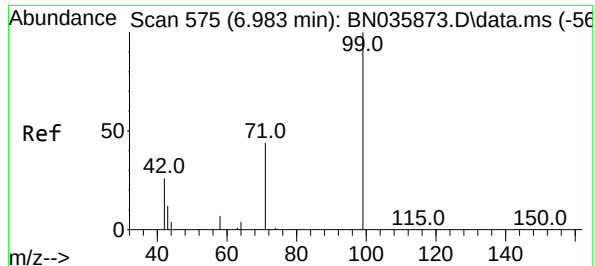
Tgt Ion: 42 Resp: 1387
Ion Ratio Lower Upper
42 100
74 76.2 62.2 93.2
44 9.6 7.1 10.7



#4
2-Fluorophenol
Concen: 0.781 ng
RT: 5.409 min Scan# 357
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion: 112 Resp: 1925
Ion Ratio Lower Upper
112 100
64 61.5 48.2 72.2
63 37.6 30.0 45.0





#5

Phenol-d6

Concen: 0.786 ng

RT: 6.983 min Scan# 51

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

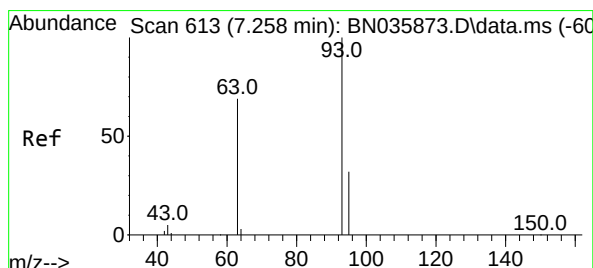
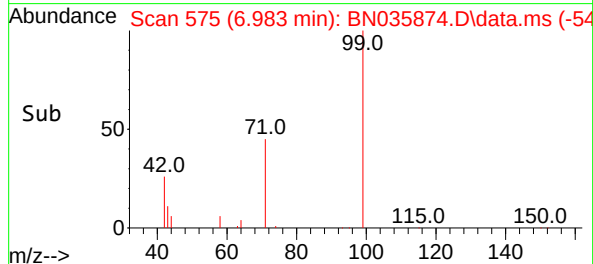
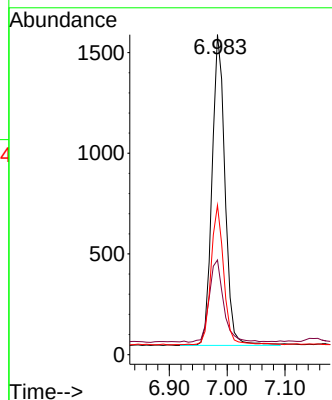
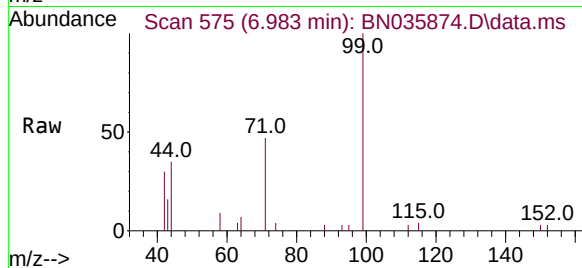
BNA_N

ClientSampleId :

SSTDICC0.8

Tgt Ion: 99 Resp: 2406

Ion	Ratio	Lower	Upper
99	100		
42	29.4	23.5	35.3
71	44.2	35.5	53.3



#6

bis(2-Chloroethyl)ether

Concen: 0.787 ng

RT: 7.258 min Scan# 613

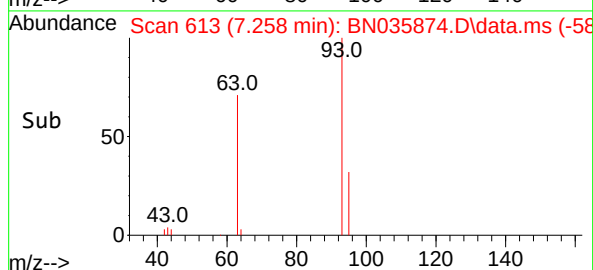
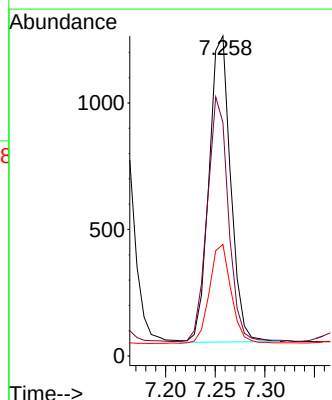
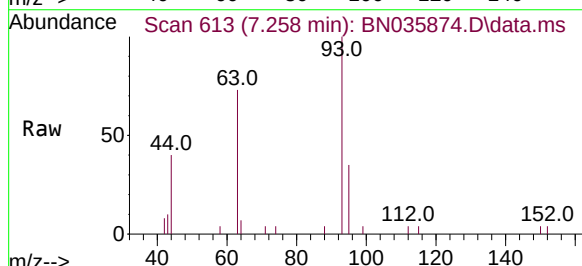
Delta R.T. -0.000 min

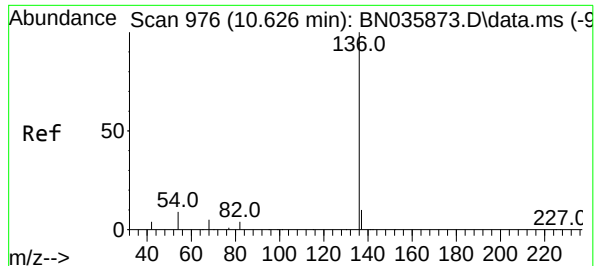
Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Tgt Ion: 93 Resp: 1835

Ion	Ratio	Lower	Upper
93	100		
63	78.4	62.0	93.0
95	33.1	25.5	38.3

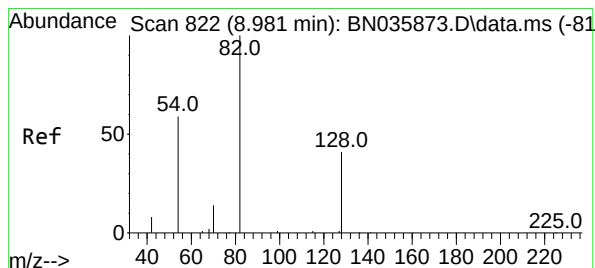
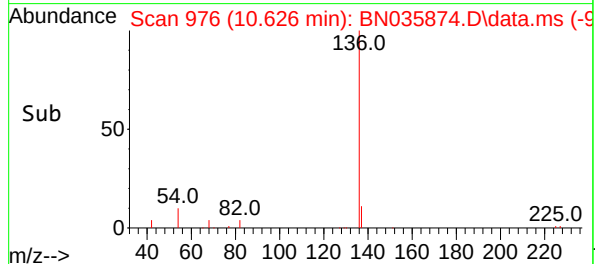
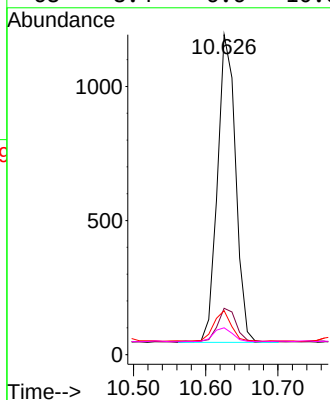
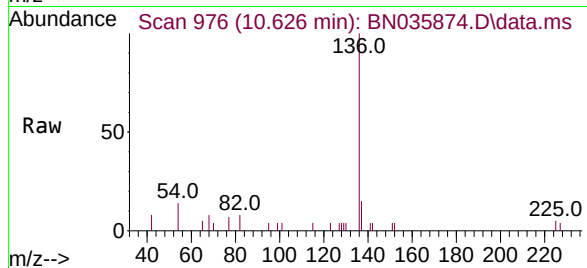




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

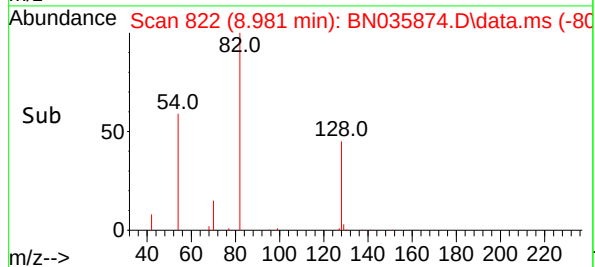
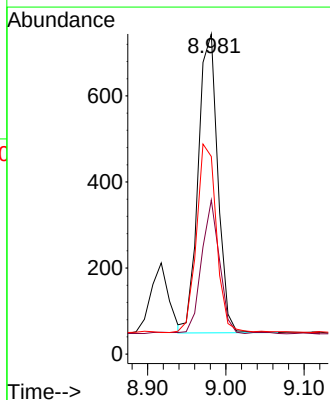
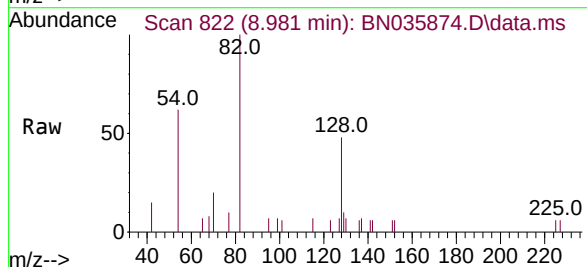
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

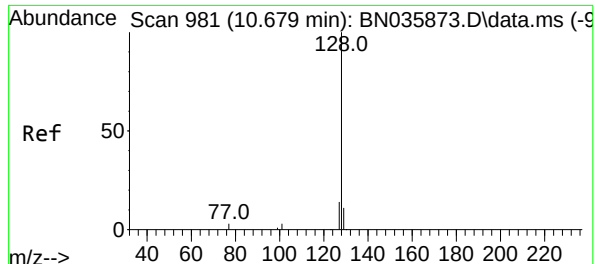
Tgt Ion:	136	Resp:	2000
Ion	Ratio	Lower	Upper
136	100		
137	14.5	10.6	15.8
54	13.7	9.8	14.6
68	8.4	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.762 ng
RT: 8.981 min Scan# 822
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion:	82	Resp:	1207
Ion	Ratio	Lower	Upper
82	100		
128	48.1	36.9	55.3
54	61.7	50.4	75.6





#9

Naphthalene

Concen: 0.781 ng

RT: 10.679 min Scan# 981

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

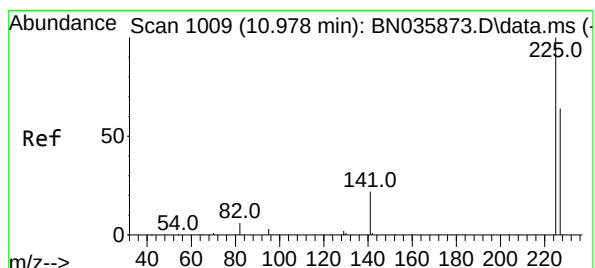
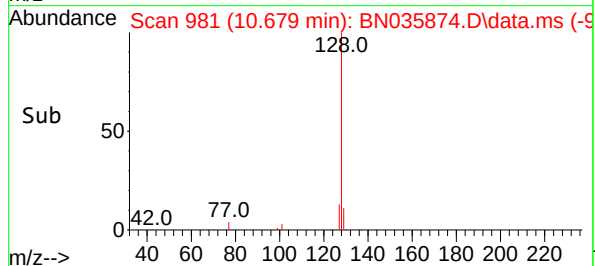
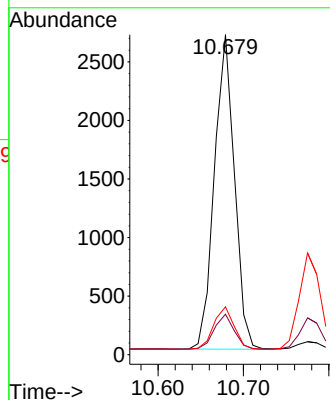
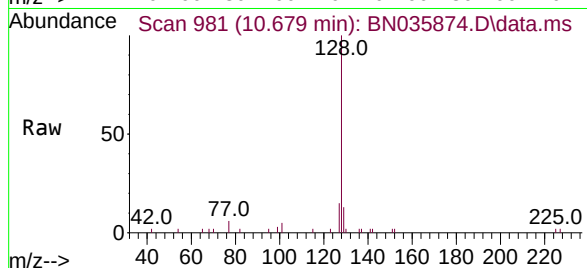
Tgt Ion:128 Resp: 4384

Ion Ratio Lower Upper

128 100

129 12.6 10.6 16.0

127 14.9 12.8 19.2



#10

Hexachlorobutadiene

Concen: 0.798 ng

RT: 10.978 min Scan# 1009

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

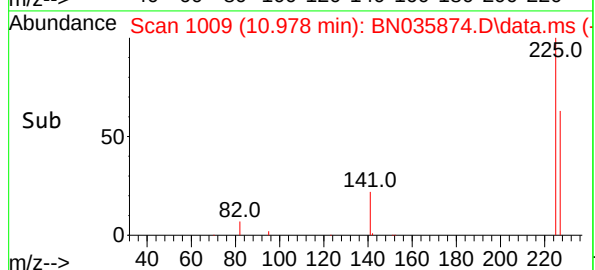
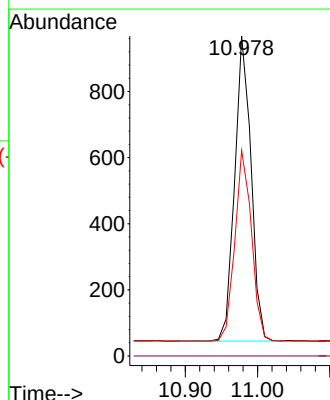
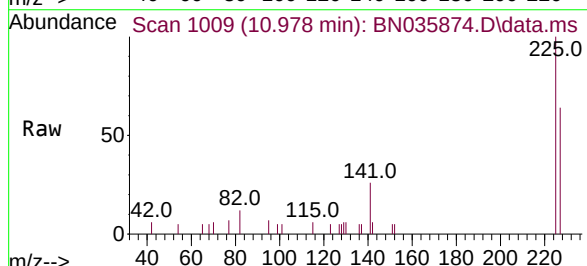
Tgt Ion:225 Resp: 1454

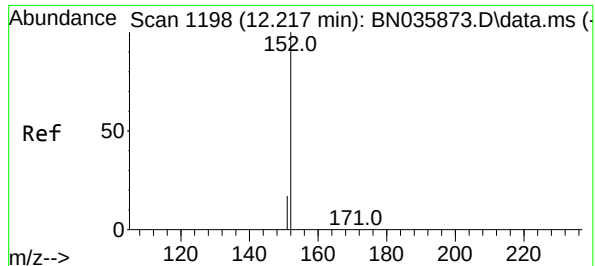
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.5 51.5 77.3

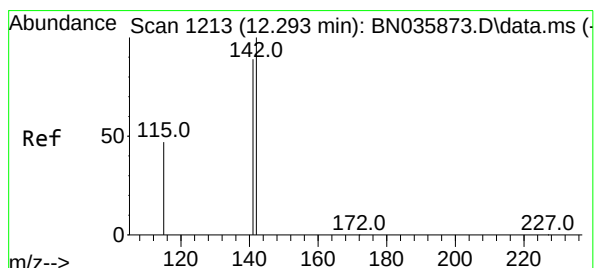
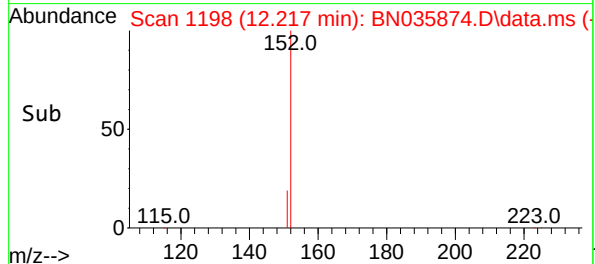
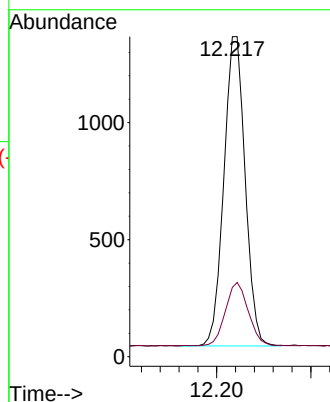
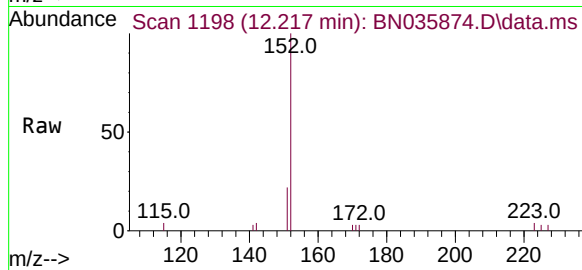




#11
2-Methylnaphthalene-d10
Concen: 0.775 ng
RT: 12.217 min Scan# 1198
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

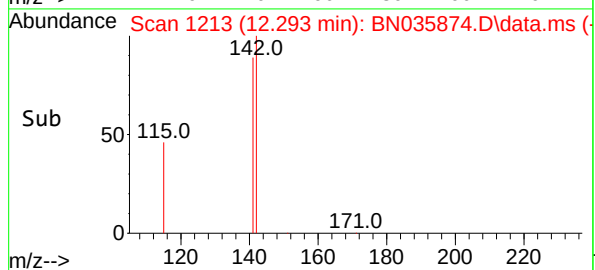
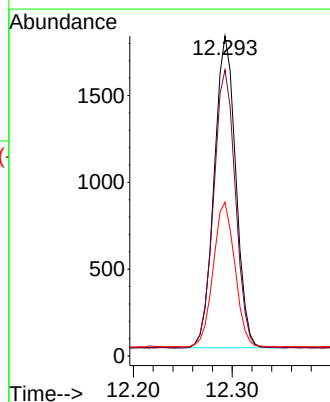
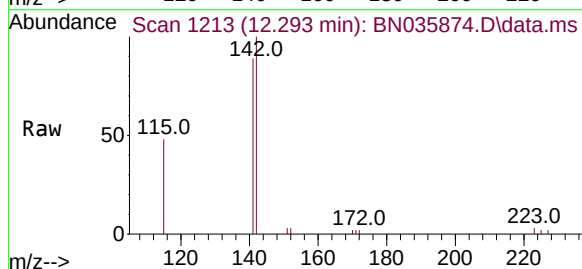
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

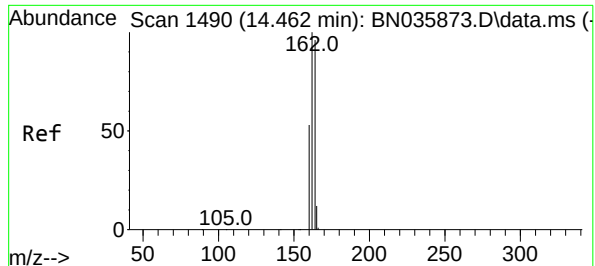
Tgt Ion:152 Resp: 2075
Ion Ratio Lower Upper
152 100
151 21.8 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.783 ng
RT: 12.293 min Scan# 1213
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion:142 Resp: 2720
Ion Ratio Lower Upper
142 100
141 89.4 71.9 107.9
115 48.0 39.6 59.4

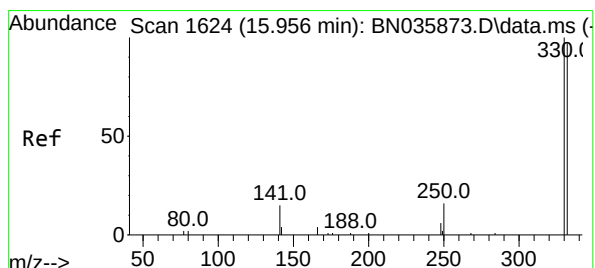
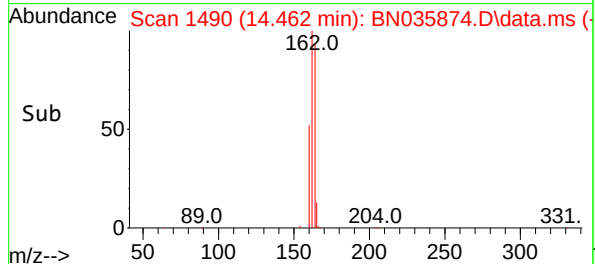
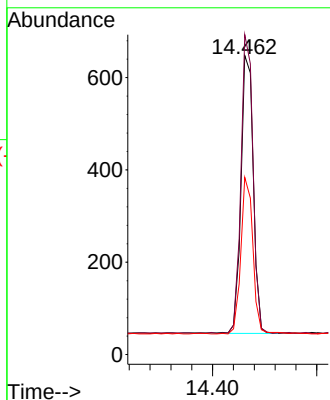
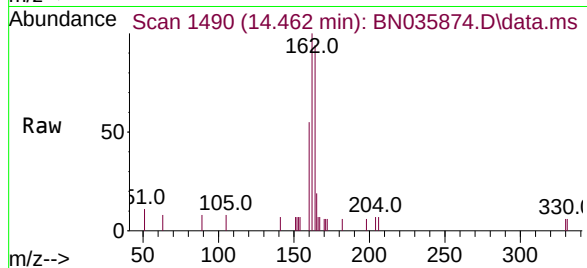




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.462 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

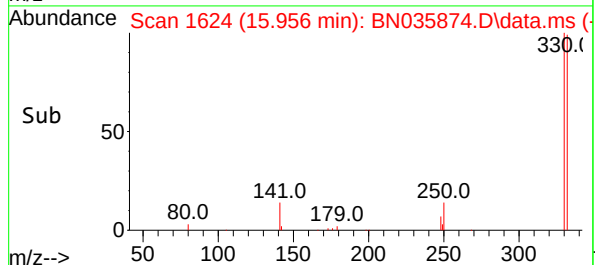
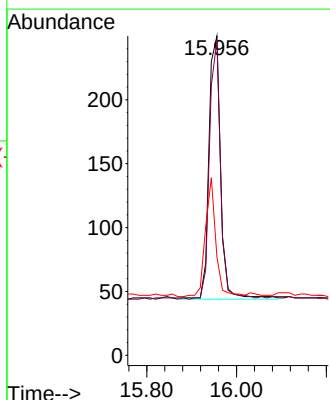
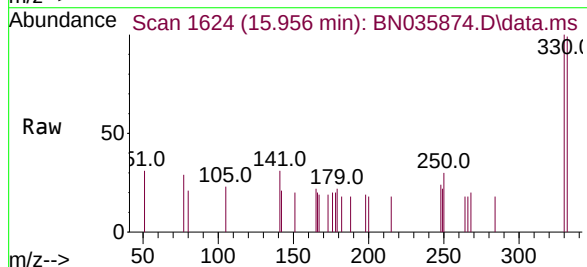
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

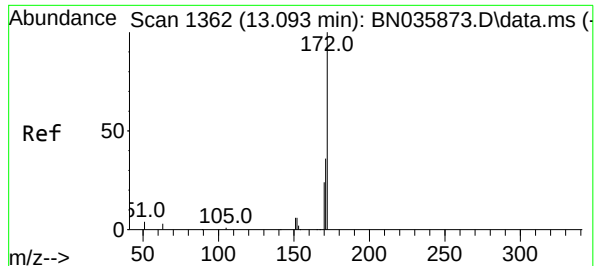
Tgt Ion	164	Resp	985
Ion	Ratio	Lower	Upper
164	100		
162	106.9	83.1	124.7
160	59.3	46.0	69.0



#14
2,4,6-Tribromophenol
Concen: 0.789 ng
RT: 15.956 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion	330	Resp	373
Ion	Ratio	Lower	Upper
330	100		
332	92.2	77.2	115.8
141	40.2	31.6	47.4





#15

2-Fluorobiphenyl

Concen: 0.804 ng

RT: 13.093 min Scan# 1362

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

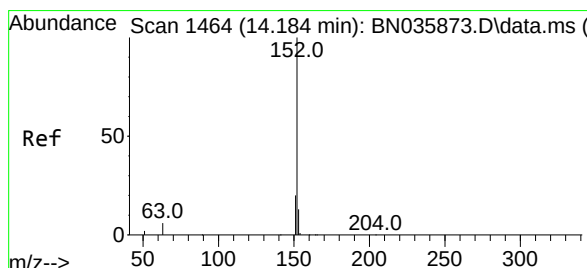
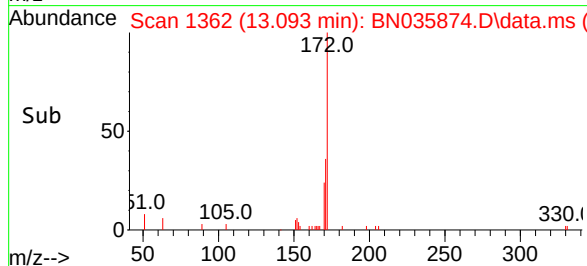
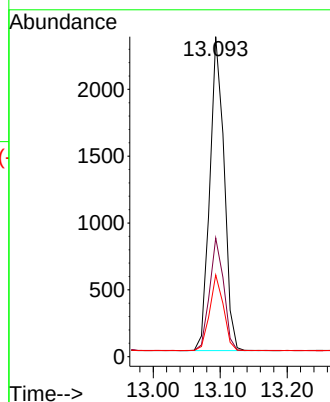
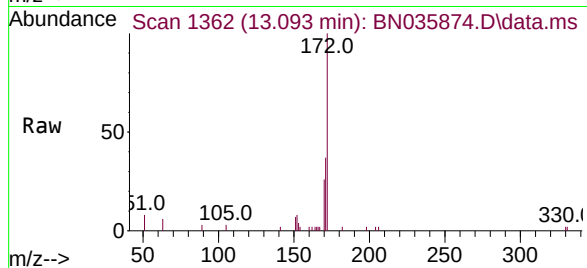
Tgt Ion:172 Resp: 3477

Ion Ratio Lower Upper

172 100

171 37.1 30.5 45.7

170 25.5 20.8 31.2



#16

Acenaphthylene

Concen: 0.781 ng

RT: 14.184 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

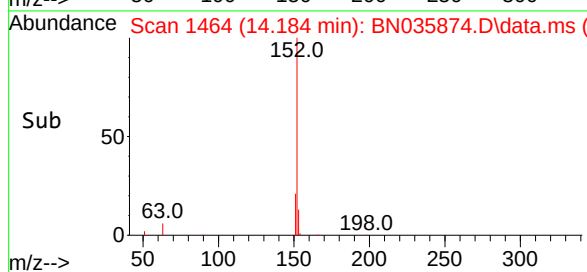
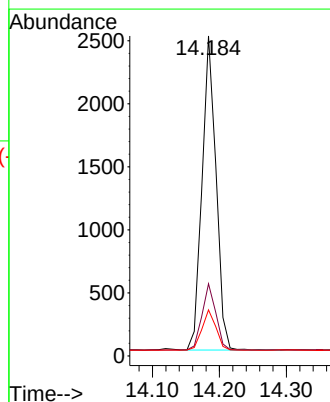
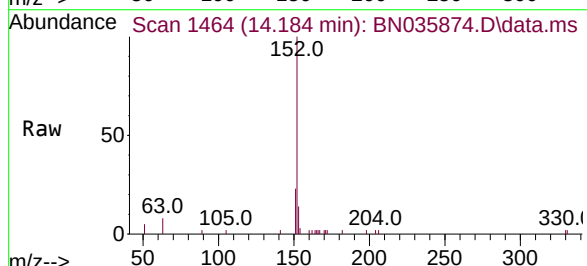
Tgt Ion:152 Resp: 3623

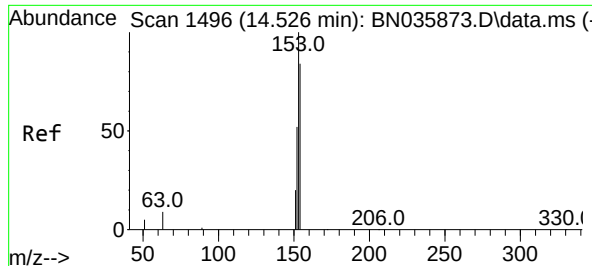
Ion Ratio Lower Upper

152 100

151 20.8 16.3 24.5

153 12.8 10.6 15.8





#17

Acenaphthene

Concen: 0.798 ng

RT: 14.526 min Scan# 1496

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

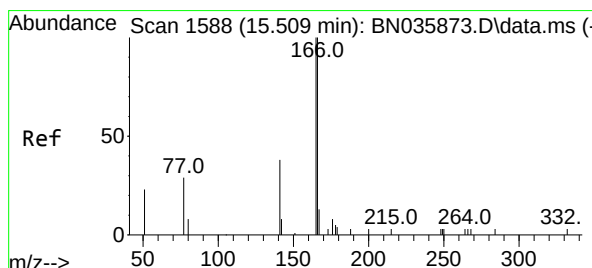
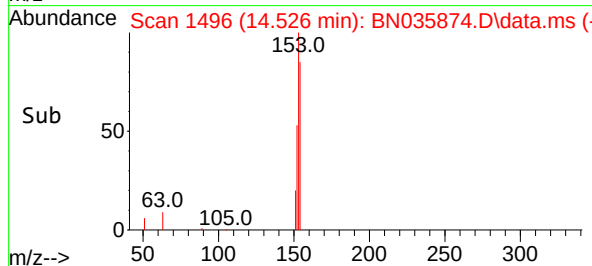
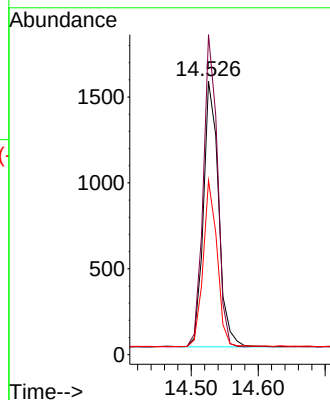
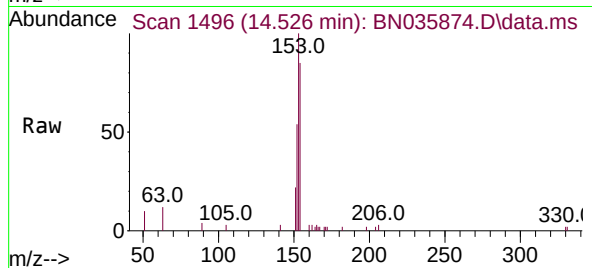
Tgt Ion:154 Resp: 2427

Ion Ratio Lower Upper

154 100

153 109.9 90.5 135.7

152 57.7 48.6 73.0



#18

Fluorene

Concen: 0.764 ng

RT: 15.509 min Scan# 1588

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

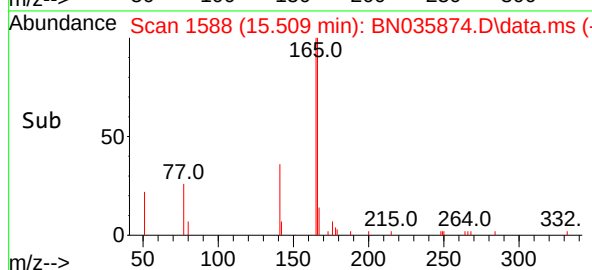
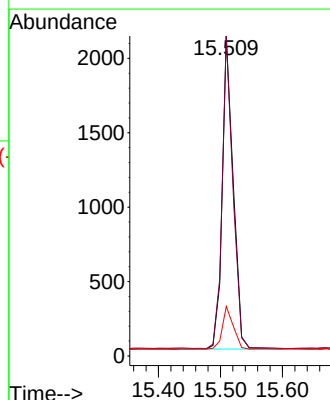
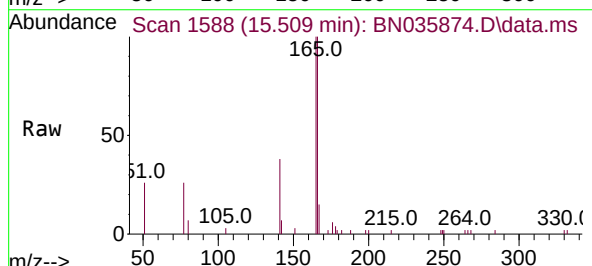
Tgt Ion:166 Resp: 2558

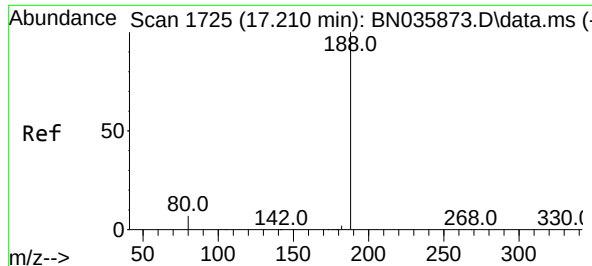
Ion Ratio Lower Upper

166 100

165 100.2 80.6 120.8

167 13.4 11.4 17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

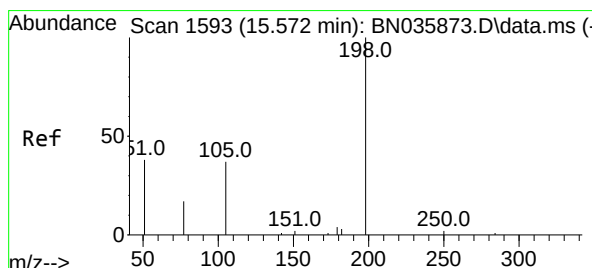
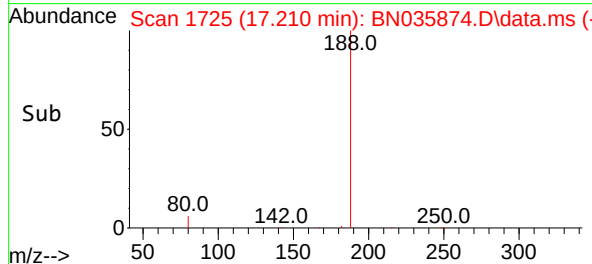
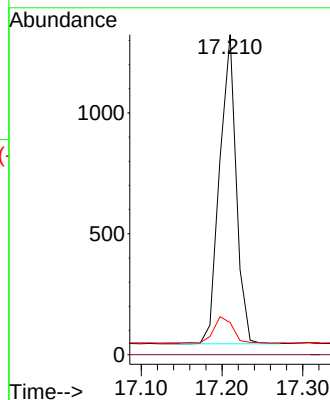
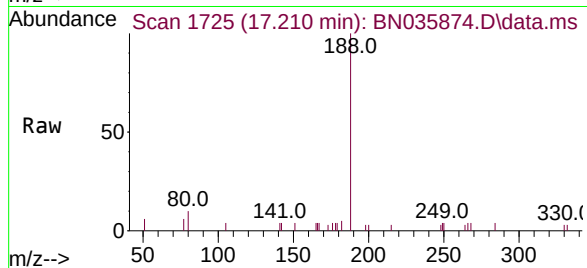
Tgt Ion:188 Resp: 1825

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.0 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.792 ng

RT: 15.571 min Scan# 1593

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

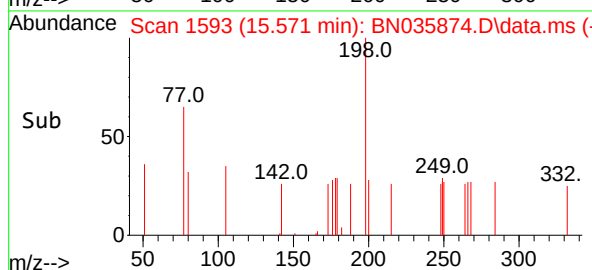
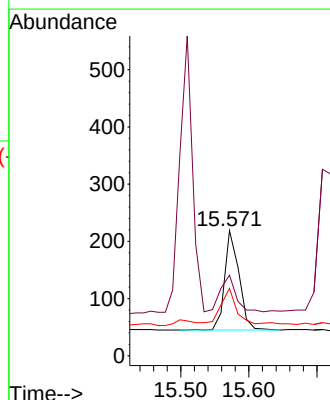
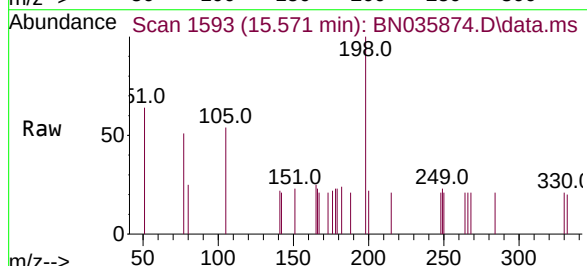
Tgt Ion:198 Resp: 251

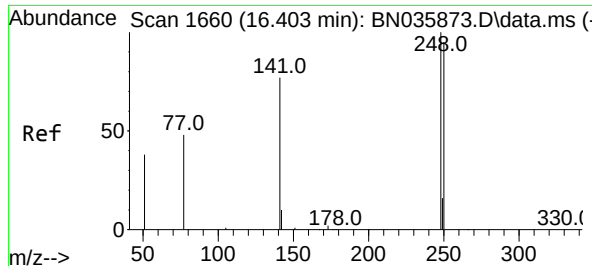
Ion Ratio Lower Upper

198 100

51 64.4 64.3 96.5

105 53.9 50.0 75.0

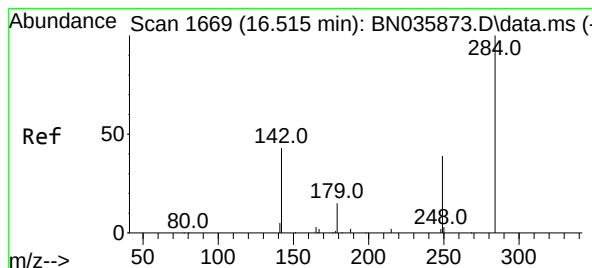
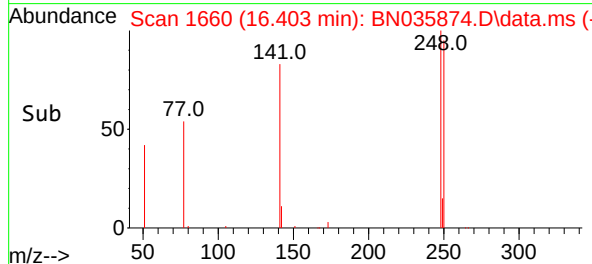
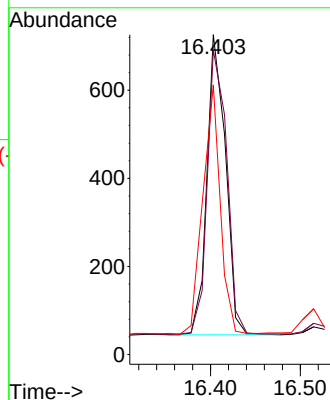
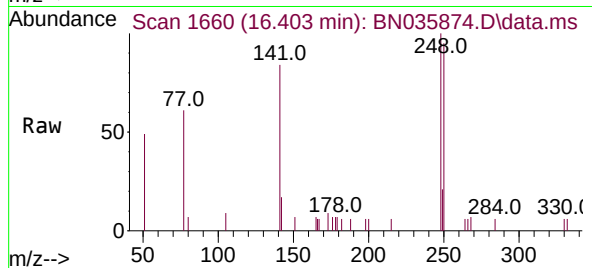




#21
4-Bromophenyl-phenylether
Concen: 0.778 ng
RT: 16.403 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

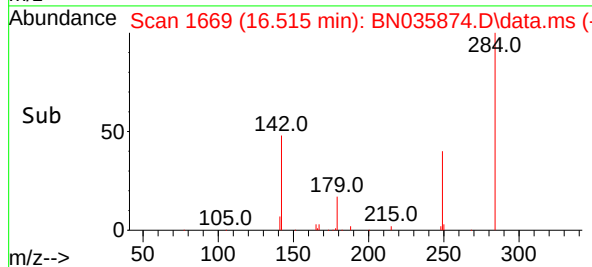
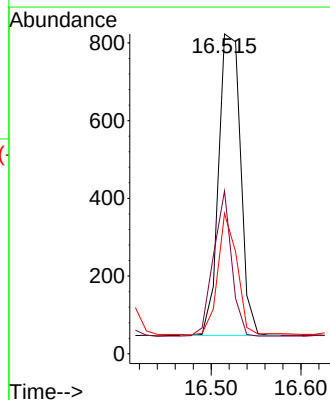
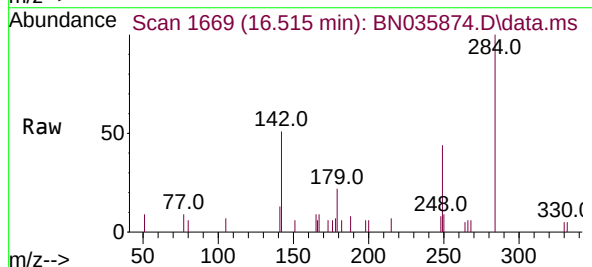
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

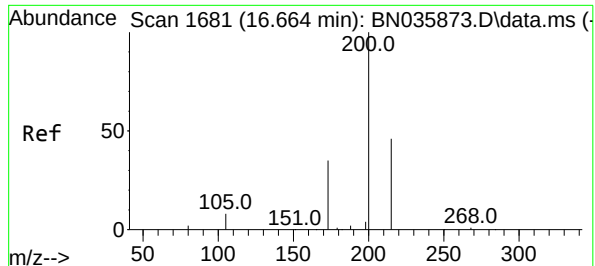
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.2	76.8	115.2
141	84.3	63.6	95.4



#22
Hexachlorobenzene
Concen: 0.774 ng
RT: 16.515 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.6	31.4	47.0
249	35.0	27.8	41.8





#23

Atrazine

Concen: 0.743 ng

RT: 16.676 min Scan# 1682

Delta R.T. 0.012 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

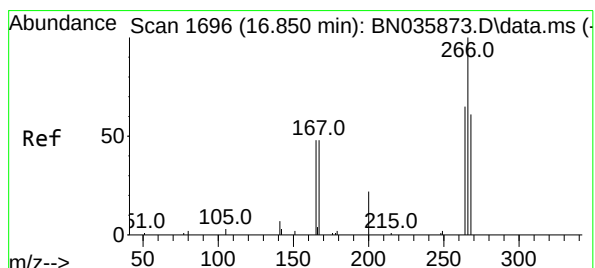
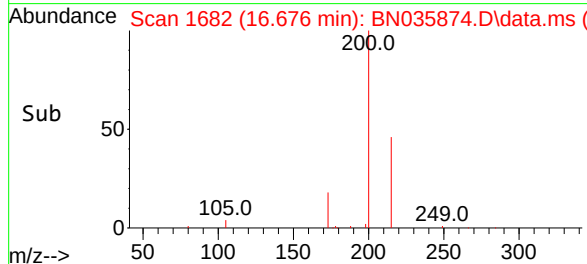
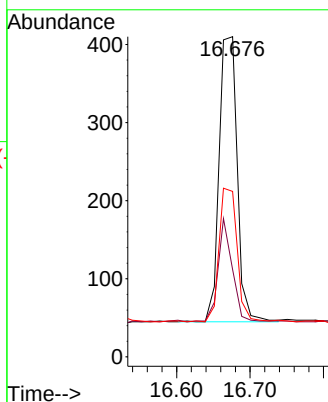
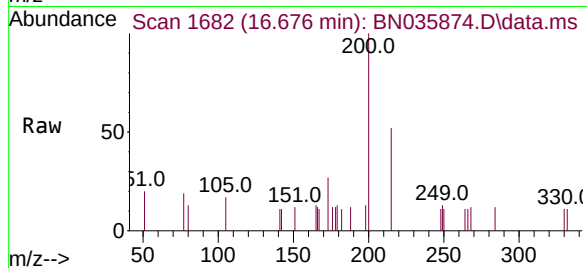
Tgt Ion:200 Resp: 624

Ion Ratio Lower Upper

200 100

173 27.3 35.4 53.0#

215 51.7 42.4 63.6



#24

Pentachlorophenol

Concen: 0.735 ng

RT: 16.850 min Scan# 1696

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

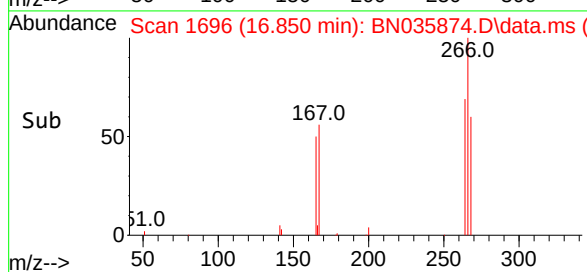
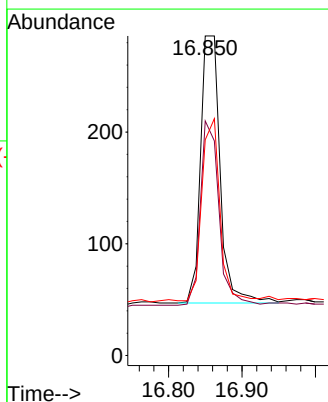
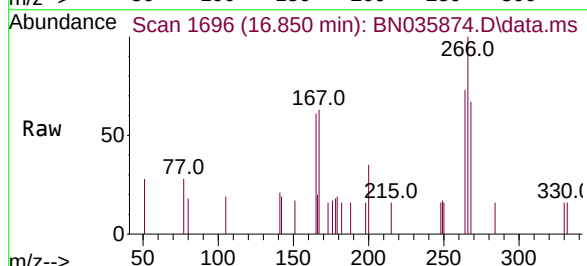
Tgt Ion:266 Resp: 444

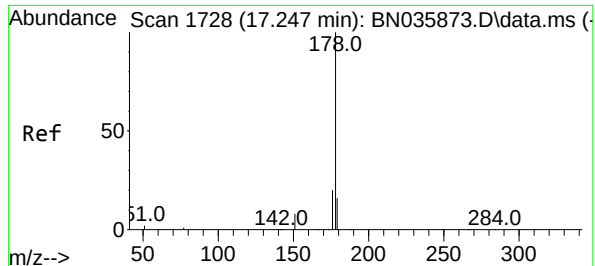
Ion Ratio Lower Upper

266 100

264 64.6 49.9 74.9

268 64.6 50.2 75.2

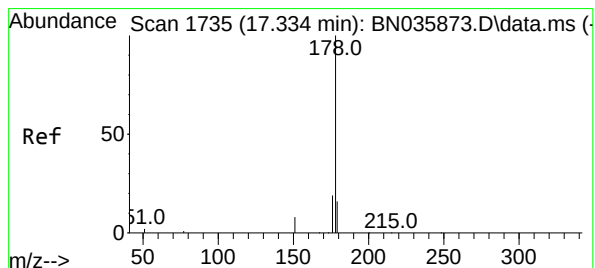
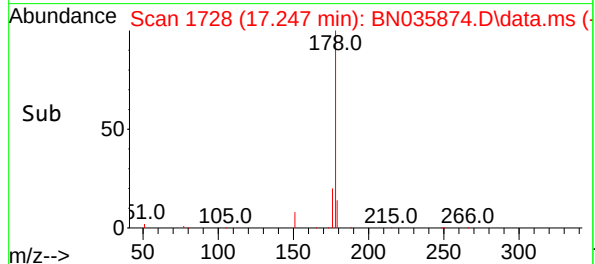
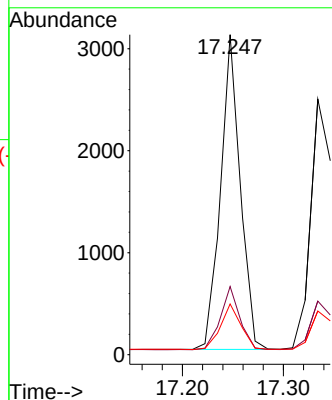
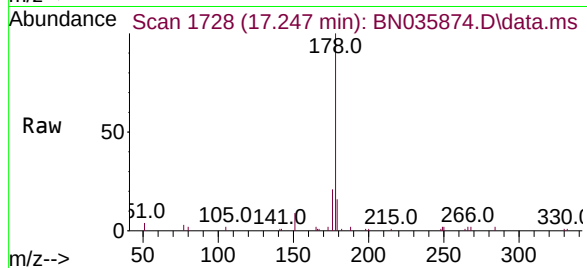




#25
Phenanthrene
Concen: 0.784 ng
RT: 17.247 min Scan# 1728
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

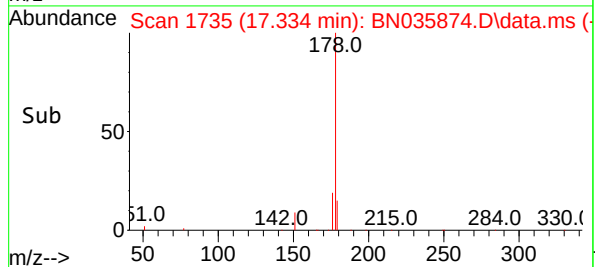
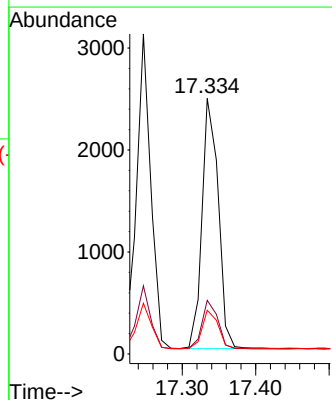
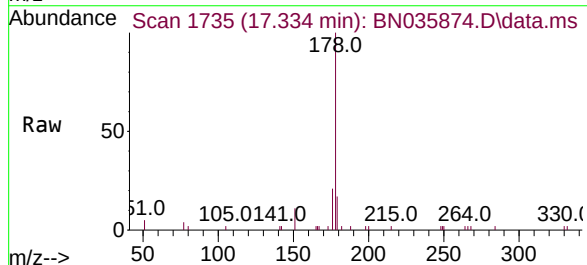
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

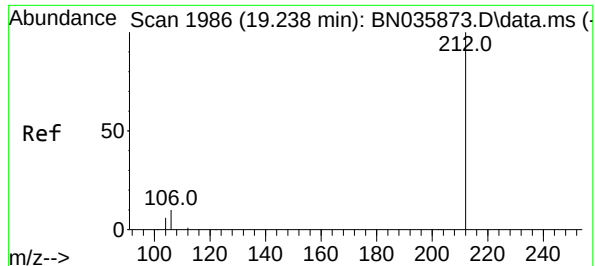
Tgt Ion:178 Resp: 4177
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 14.8 12.9 19.3



#26
Anthracene
Concen: 0.778 ng
RT: 17.334 min Scan# 1735
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion:178 Resp: 3772
Ion Ratio Lower Upper
178 100
176 19.2 15.0 22.6
179 15.3 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.773 ng

RT: 19.238 min Scan# 1986

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

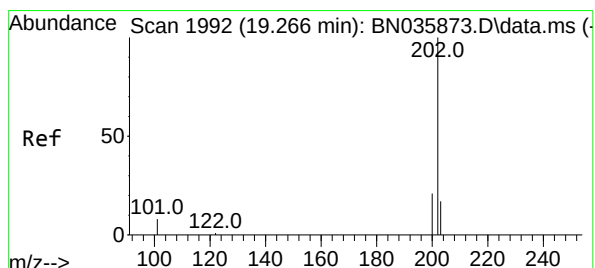
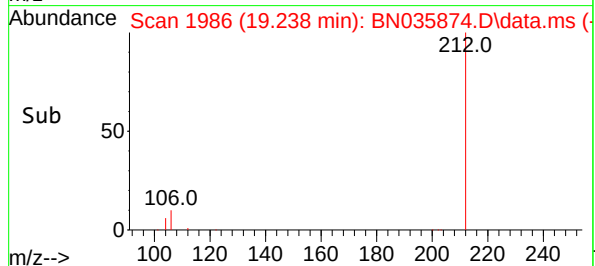
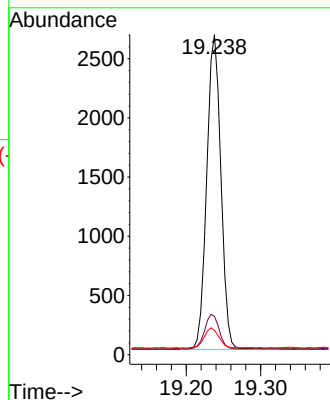
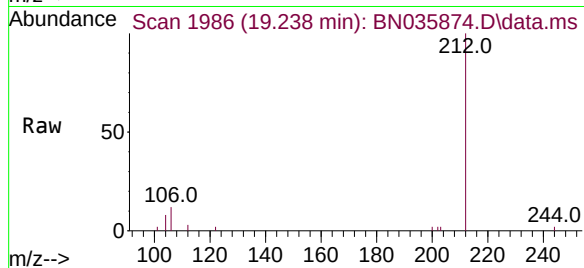
Tgt Ion:212 Resp: 3502

Ion Ratio Lower Upper

212 100

106 11.3 9.0 13.6

104 6.8 5.4 8.2



#28

Fluoranthene

Concen: 0.772 ng

RT: 19.266 min Scan# 1992

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

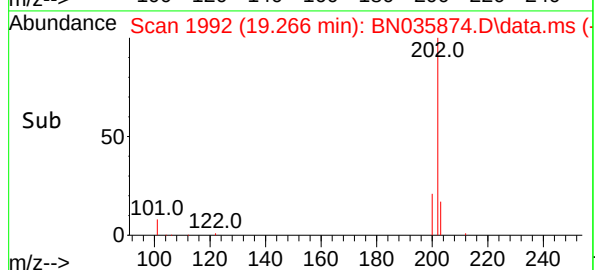
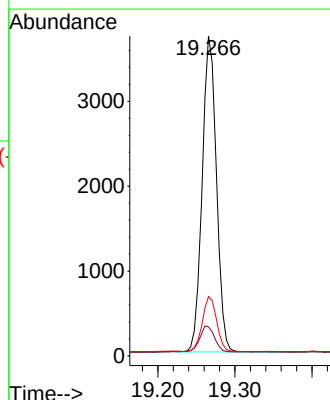
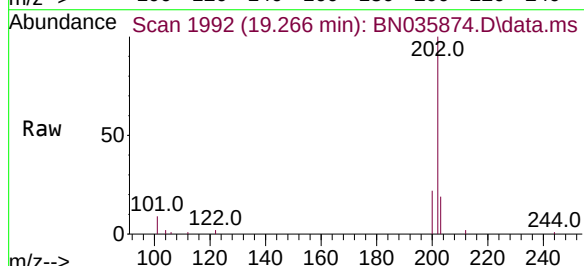
Tgt Ion:202 Resp: 4790

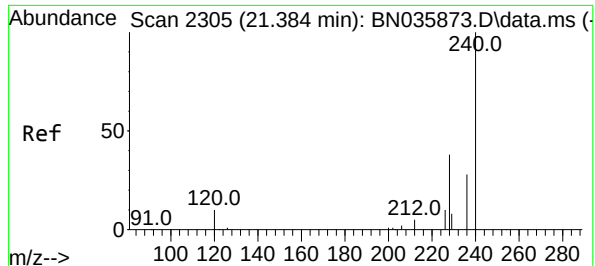
Ion Ratio Lower Upper

202 100

101 8.8 7.2 10.8

203 17.4 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

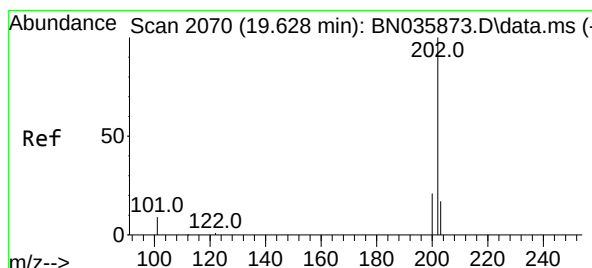
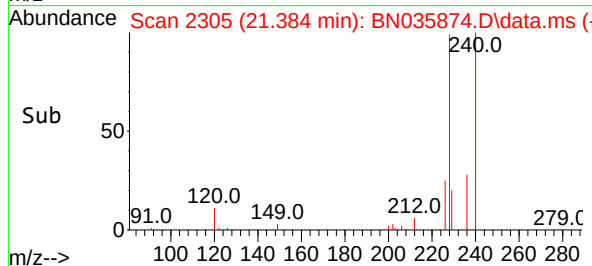
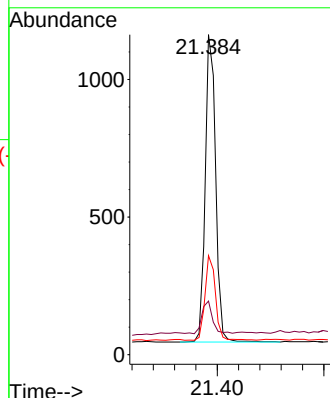
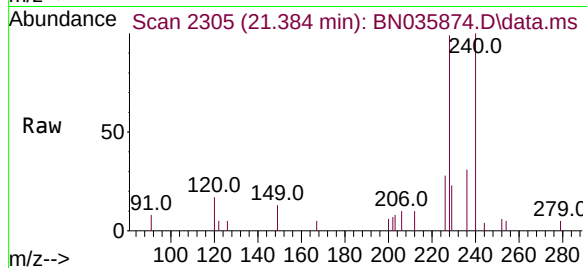
Tgt Ion:240 Resp: 1508

Ion Ratio Lower Upper

240 100

120 16.8 11.1 16.7#

236 31.0 24.6 36.8



#30

Pyrene

Concen: 0.794 ng

RT: 19.628 min Scan# 2070

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

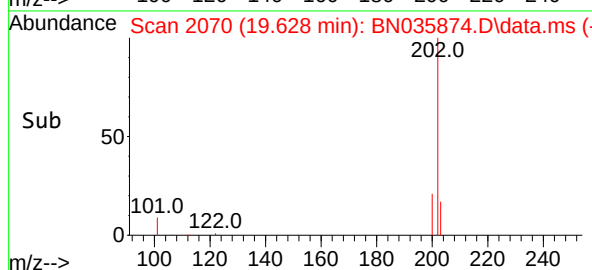
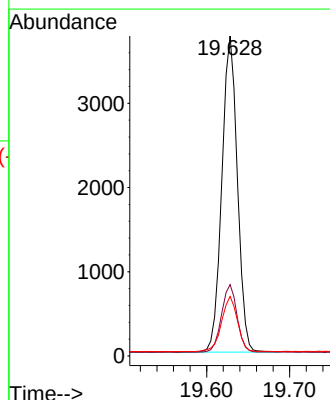
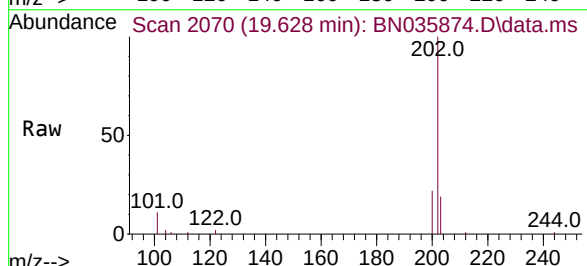
Tgt Ion:202 Resp: 4863

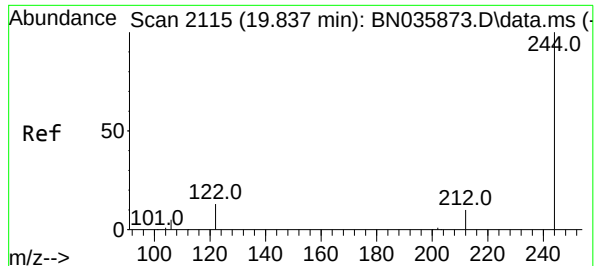
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.6

203 17.9 14.6 22.0

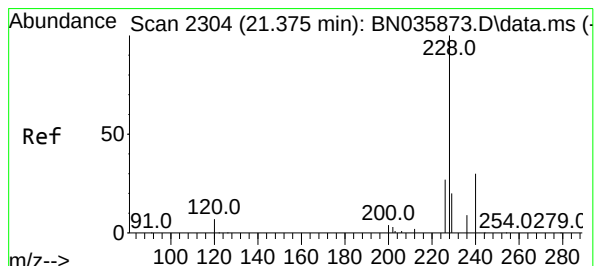
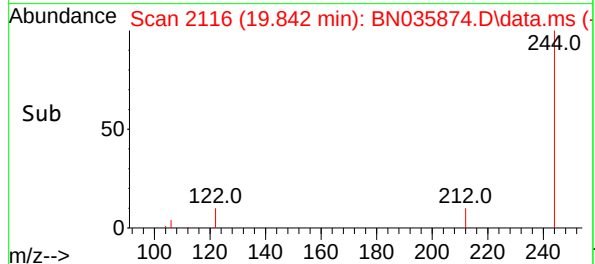
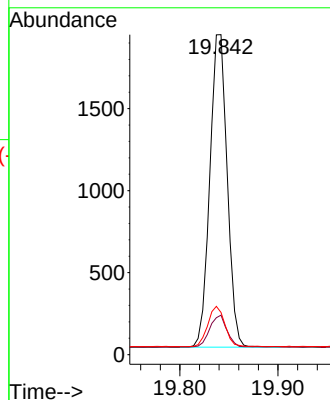
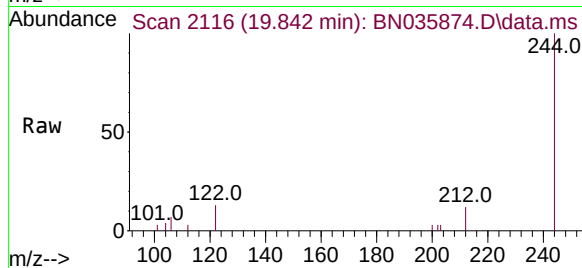




#31
Terphenyl-d14
Concen: 0.780 ng
RT: 19.842 min Scan# 2116
Delta R.T. 0.005 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

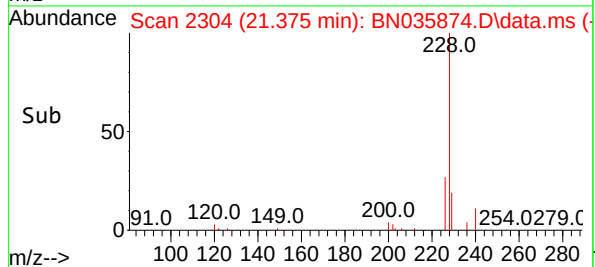
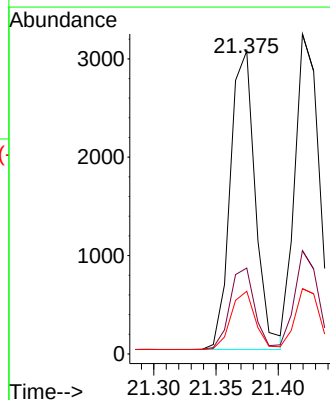
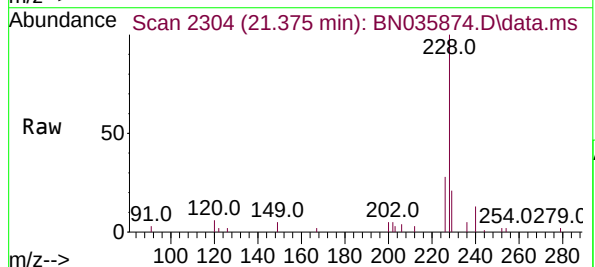
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

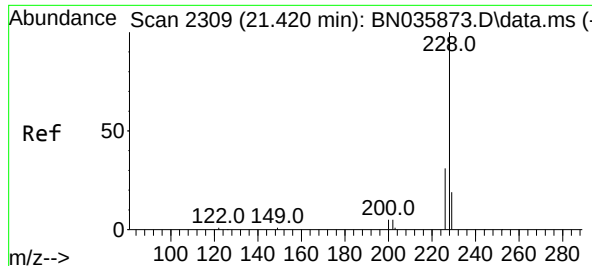
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.4	10.1	15.1
122	13.2	12.2	18.4



#32
Benzo(a)anthracene
Concen: 0.799 ng
RT: 21.375 min Scan# 2304
Delta R.T. -0.000 min
Lab File: BN035874.D
Acq: 02 Jan 2025 13:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.7	34.1
229	20.7	17.1	25.7





#33

Chrysene

Concen: 0.787 ng

RT: 21.419 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

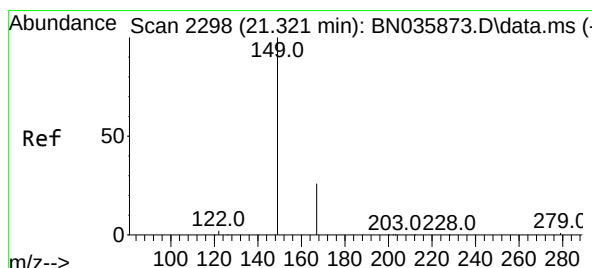
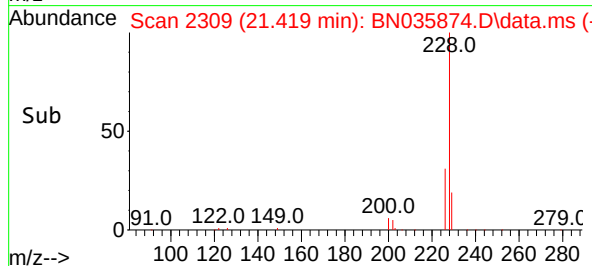
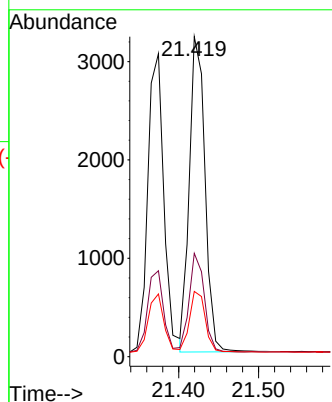
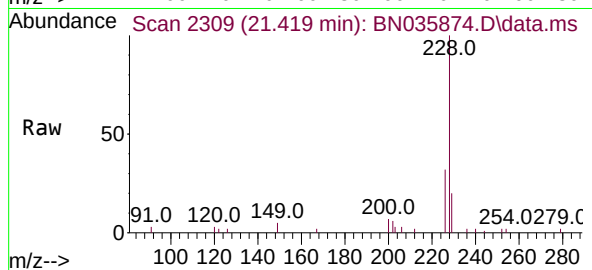
Tgt Ion:228 Resp: 4376

Ion Ratio Lower Upper

228 100

226 32.3 25.2 37.8

229 20.4 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.755 ng

RT: 21.330 min Scan# 2299

Delta R.T. 0.009 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

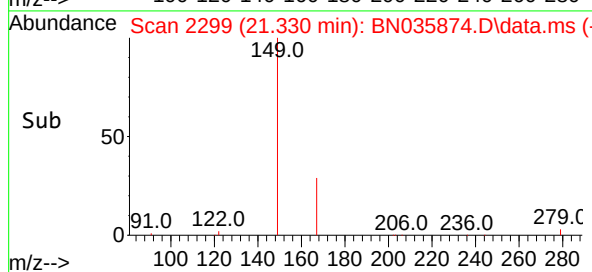
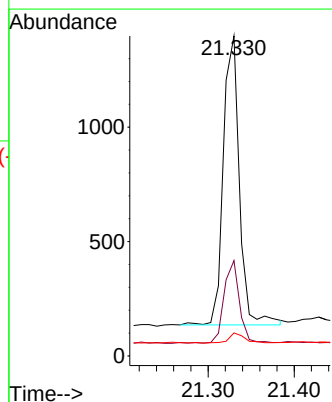
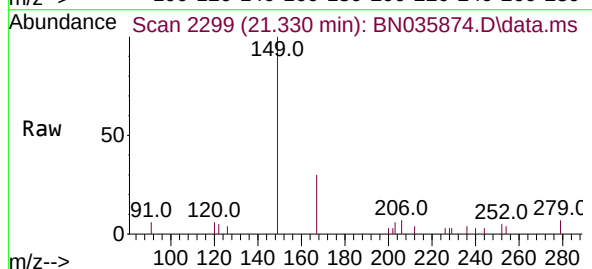
Tgt Ion:149 Resp: 1633

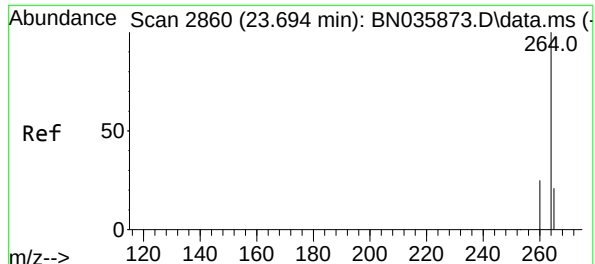
Ion Ratio Lower Upper

149 100

167 26.9 21.4 32.0

279 3.6 3.0 4.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.694 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

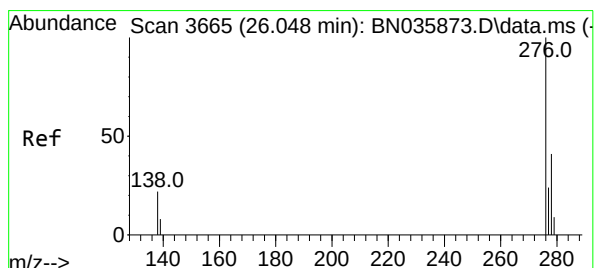
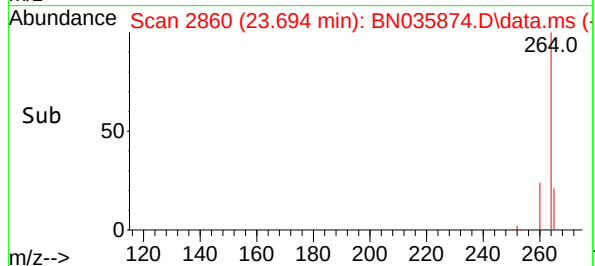
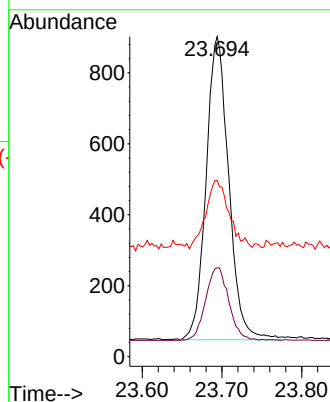
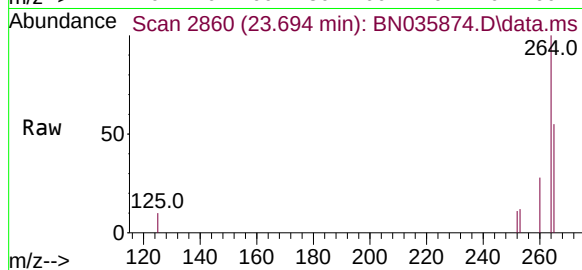
Tgt Ion:264 Resp: 1682

Ion Ratio Lower Upper

264 100

260 27.8 21.7 32.5

265 55.1 33.9 50.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.800 ng

RT: 26.050 min Scan# 3666

Delta R.T. 0.003 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

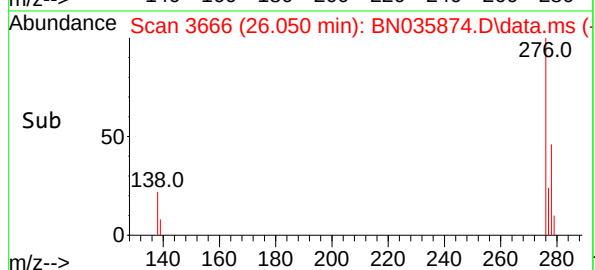
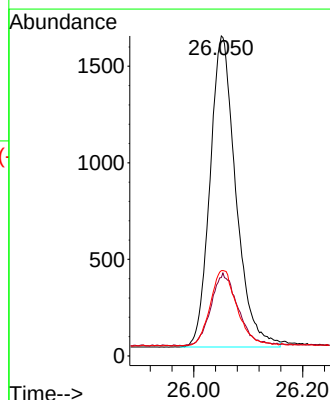
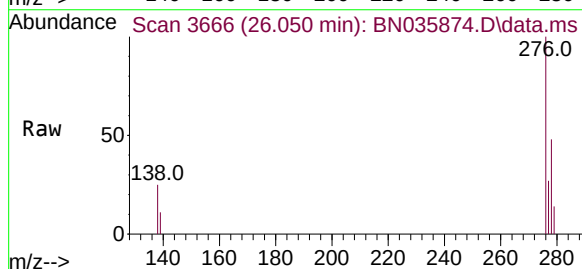
Tgt Ion:276 Resp: 5308

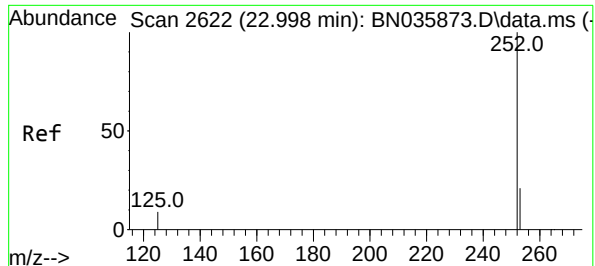
Ion Ratio Lower Upper

276 100

138 23.9 18.9 28.3

277 25.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.787 ng

RT: 22.998 min Scan# 2622

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

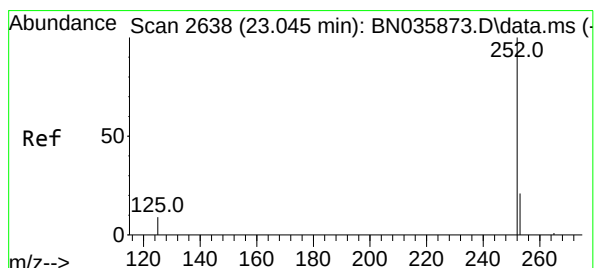
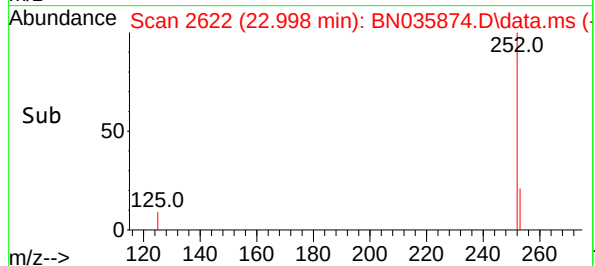
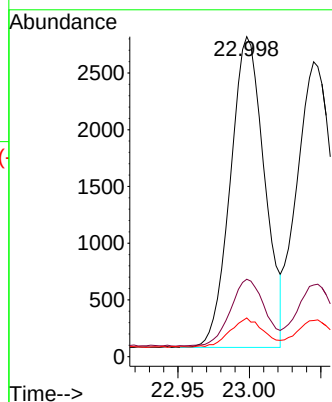
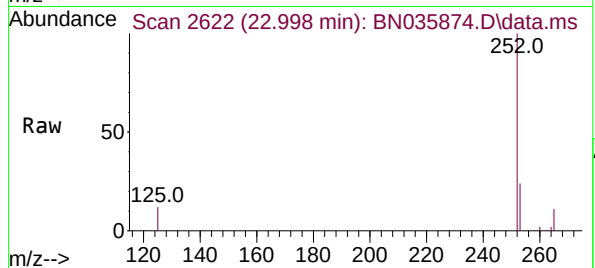
Tgt Ion:252 Resp: 4545

Ion Ratio Lower Upper

252 100

253 24.2 20.1 30.1

125 12.1 9.9 14.9



#38

Benzo(k)fluoranthene

Concen: 0.790 ng

RT: 23.045 min Scan# 2638

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

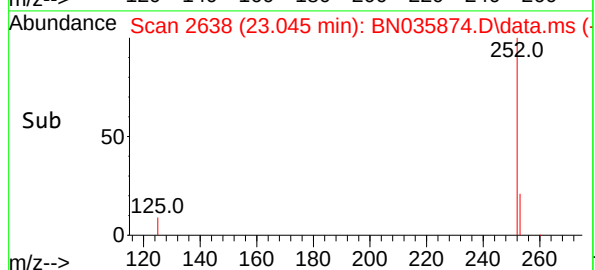
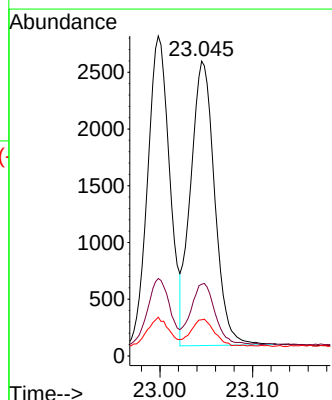
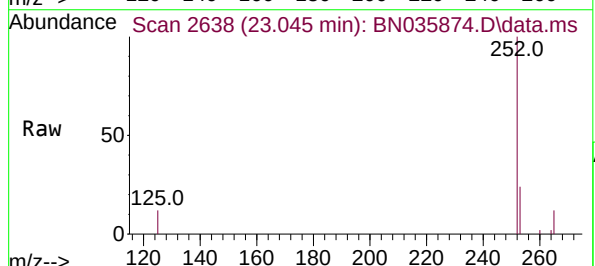
Tgt Ion:252 Resp: 4521

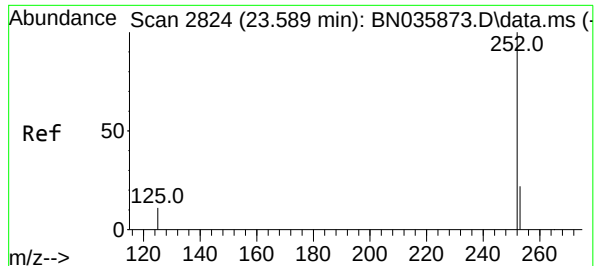
Ion Ratio Lower Upper

252 100

253 24.3 20.5 30.7

125 12.3 10.6 16.0





#39

Benzo(a)pyrene

Concen: 0.782 ng

RT: 23.595 min Scan# 2826

Delta R.T. 0.006 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

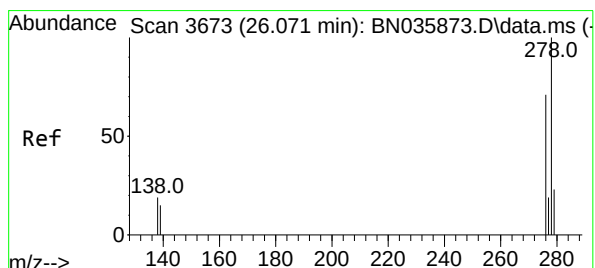
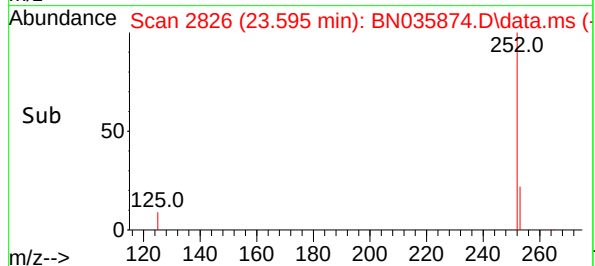
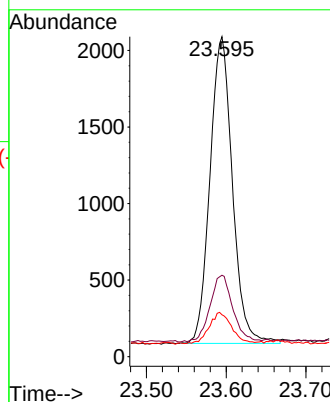
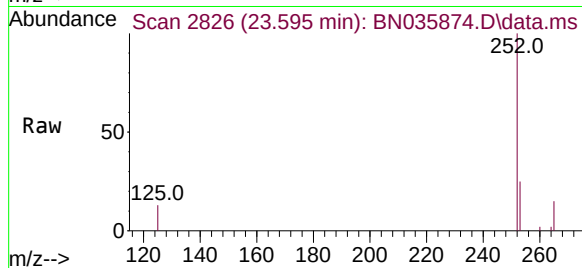
Tgt Ion:252 Resp: 3913

Ion Ratio Lower Upper

252 100

253 25.5 21.5 32.3

125 13.1 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.798 ng

RT: 26.071 min Scan# 3673

Delta R.T. -0.000 min

Lab File: BN035874.D

Acq: 02 Jan 2025 13:16

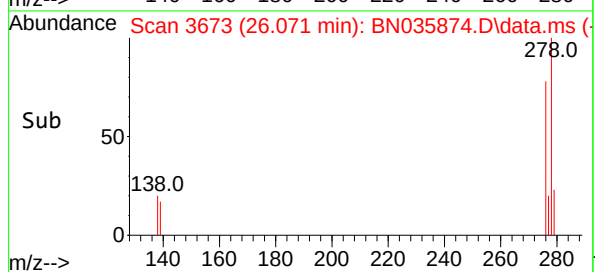
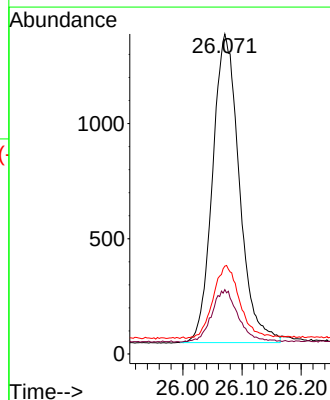
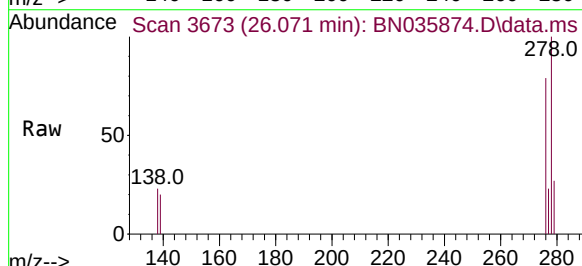
Tgt Ion:278 Resp: 4209

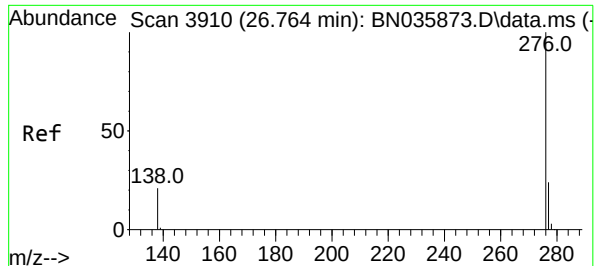
Ion Ratio Lower Upper

278 100

139 20.1 15.9 23.9

279 27.4 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.802 ng

RT: 26.767 min Scan# 3911

Delta R.T. 0.003 min

Lab File: BN035874.D

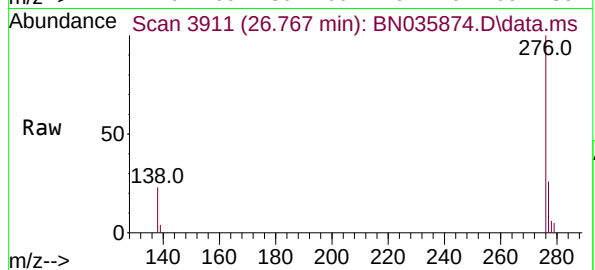
Acq: 02 Jan 2025 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



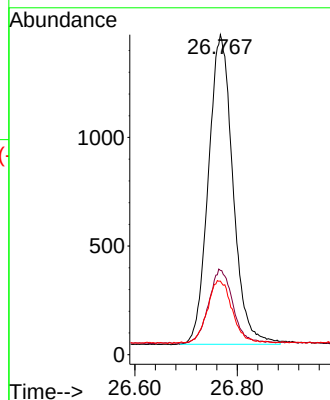
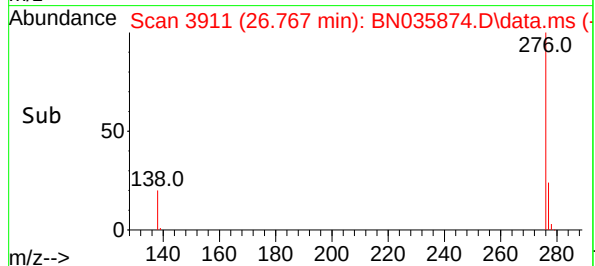
Tgt Ion:276 Resp: 4732

Ion Ratio Lower Upper

276 100

277 26.3 22.8 34.2

138 23.0 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035875.D
 Acq On : 02 Jan 2025 13:52
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Jan 02 15:50:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

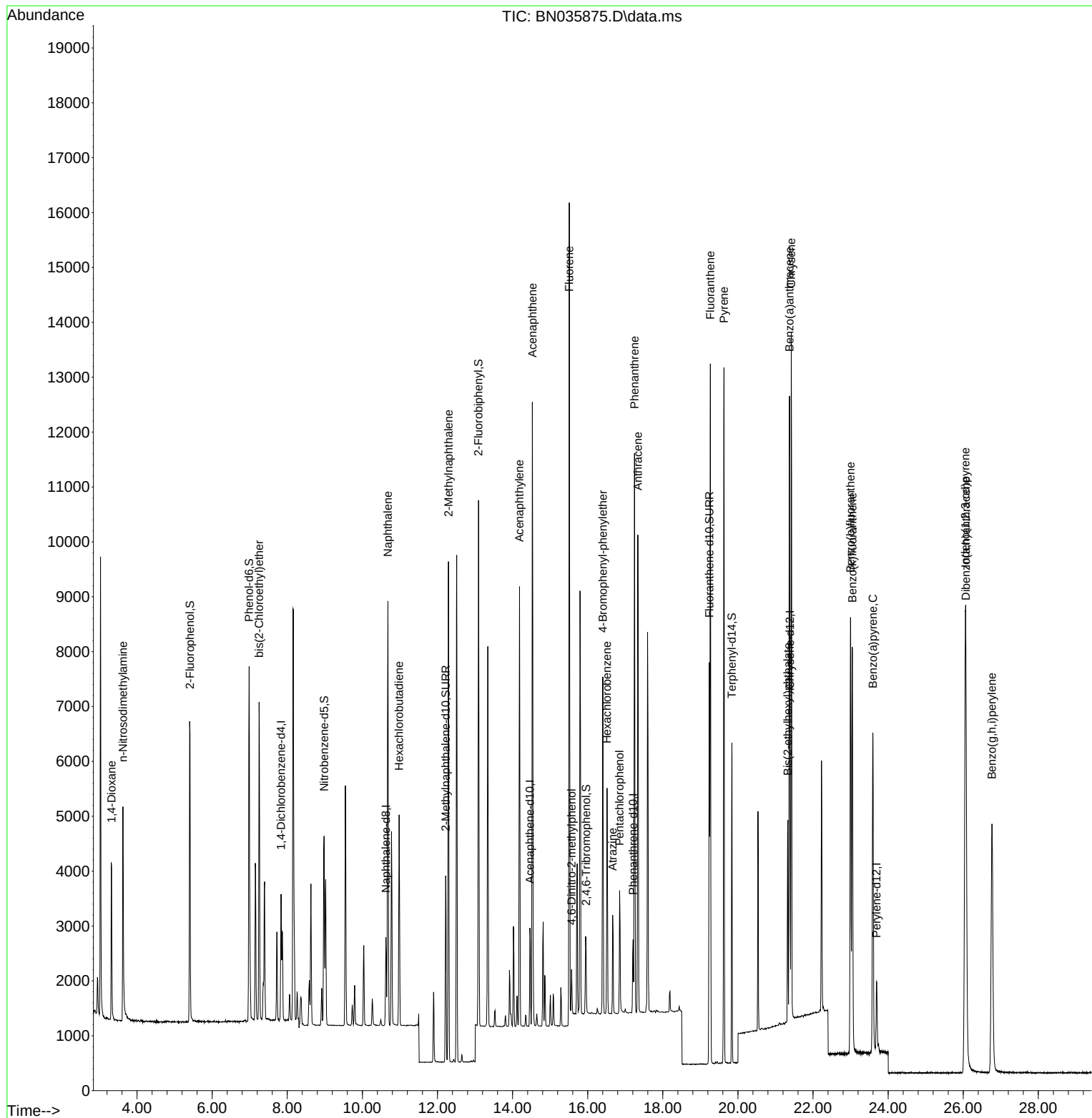
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.835	152	1039	0.400	ng	0.00
7) Naphthalene-d8	10.625	136	2002	0.400	ng	0.00
13) Acenaphthene-d10	14.462	164	1024	0.400	ng	0.00
19) Phenanthrene-d10	17.210	188	1916	0.400	ng	0.00
29) Chrysene-d12	21.384	240	1622	0.400	ng	0.00
35) Perylene-d12	23.691	264	1727	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.409	112	4142	1.625	ng	0.00
5) Phenol-d6	6.983	99	5048	1.595	ng	0.00
8) Nitrobenzene-d5	8.981	82	2556	1.612	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	4454	1.662	ng	0.00
14) 2,4,6-Tribromophenol	15.956	330	847	1.723	ng	0.00
15) 2-Fluorobiphenyl	13.093	172	7465	1.661	ng	0.00
27) Fluoranthene-d10	19.238	212	7879	1.657	ng	0.00
31) Terphenyl-d14	19.837	244	5373	1.662	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.321	88	1627	1.577	ng	97
3) n-Nitrosodimethylamine	3.625	42	3002	1.667	ng	# 97
6) bis(2-Chloroethyl)ether	7.250	93	3900	1.617	ng	100
9) Naphthalene	10.679	128	9344	1.663	ng	96
10) Hexachlorobutadiene	10.978	225	3062	1.678	ng	# 99
12) 2-Methylnaphthalene	12.293	142	5850	1.682	ng	99
16) Acenaphthylene	14.184	152	8035	1.666	ng	100
17) Acenaphthene	14.526	154	5325	1.684	ng	97
18) Fluorene	15.509	166	5812	1.671	ng	97
20) 4,6-Dinitro-2-methylph...	15.571	198	585	1.758	ng	# 72
21) 4-Bromophenyl-phenylether	16.403	248	2219	1.689	ng	98
22) Hexachlorobenzene	16.515	284	3022	1.687	ng	98
23) Atrazine	16.664	200	1516	1.720	ng	# 87
24) Pentachlorophenol	16.850	266	1099	1.733	ng	99
25) Phenanthrene	17.247	178	9410	1.683	ng	99
26) Anthracene	17.334	178	8714	1.713	ng	99
28) Fluoranthene	19.266	202	11040	1.694	ng	99
30) Pyrene	19.628	202	11104	1.686	ng	99
32) Benzo(a)anthracene	21.375	228	9482	1.659	ng	98
33) Chrysene	21.419	228	10000	1.672	ng	99
34) Bis(2-ethylhexyl)phtha...	21.330	149	3691	1.586	ng	98
36) Indeno(1,2,3-cd)pyrene	26.056	276	11724	1.721	ng	99
37) Benzo(b)fluoranthene	22.998	252	10128	1.707	ng	95
38) Benzo(k)fluoranthene	23.045	252	10151	1.728	ng	# 94
39) Benzo(a)pyrene	23.592	252	8775	1.709	ng	# 92
40) Dibenzo(a,h)anthracene	26.071	278	9415	1.738	ng	94
41) Benzo(g,h,i)perylene	26.764	276	10294	1.699	ng	93

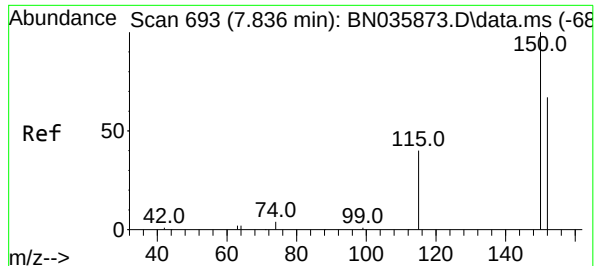
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035875.D
Acq On : 02 Jan 2025 13:52
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jan 02 15:50:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

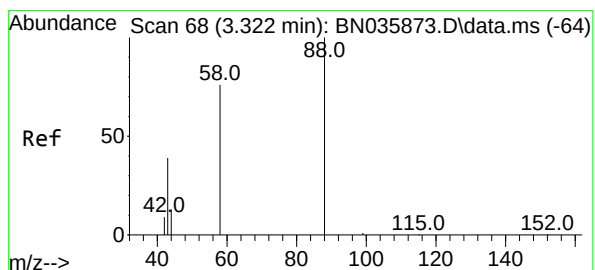
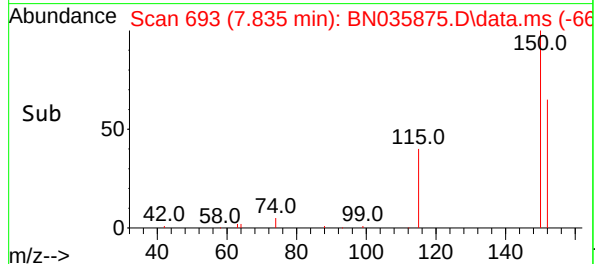
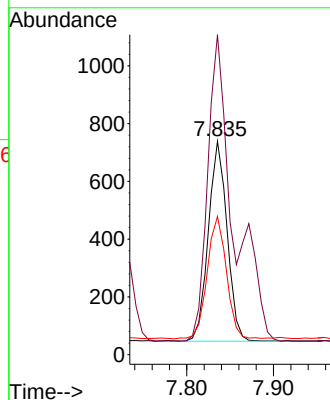
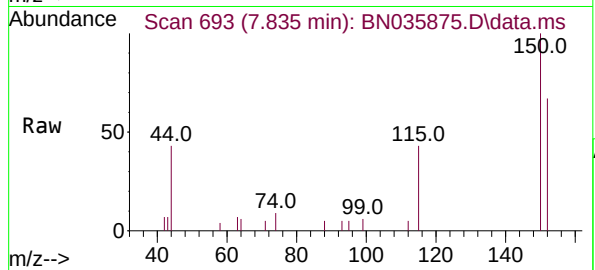




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.835 min Scan# 69
Delta R.T. -0.001 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

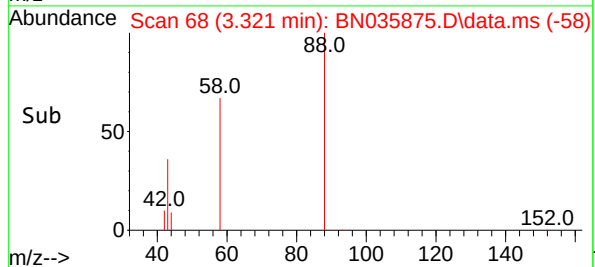
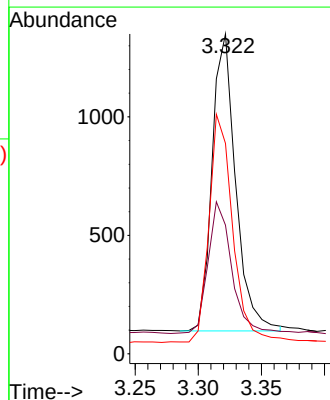
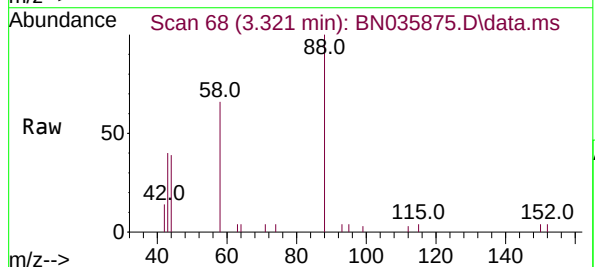
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

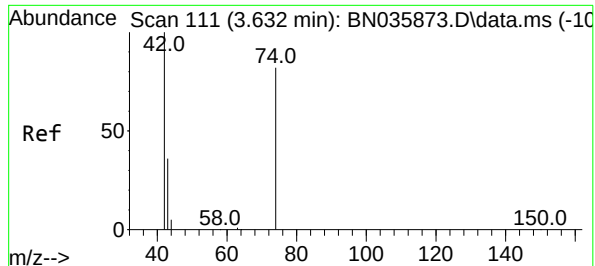
Tgt Ion:152 Resp: 1039
Ion Ratio Lower Upper
152 100
150 149.9 117.8 176.6
115 64.8 51.0 76.4



#2
1,4-Dioxane
Concen: 1.577 ng
RT: 3.321 min Scan# 68
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion: 88 Resp: 1627
Ion Ratio Lower Upper
88 100
43 44.4 32.7 49.1
58 77.4 63.0 94.4





#3

n-Nitrosodimethylamine

Concen: 1.667 ng

RT: 3.625 min Scan# 111

Delta R.T. -0.007 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

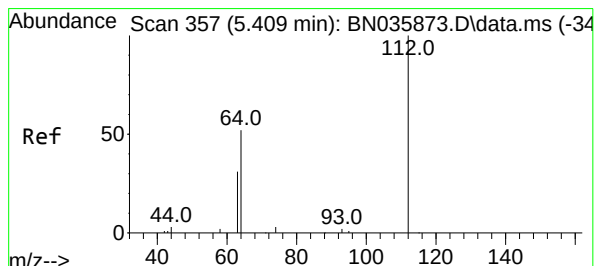
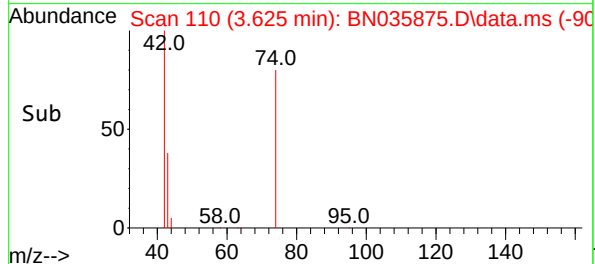
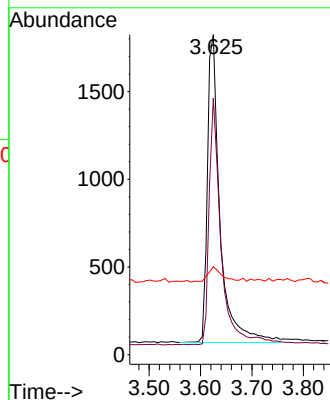
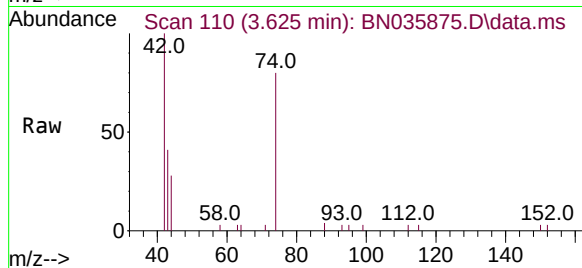
Tgt Ion: 42 Resp: 3002

Ion Ratio Lower Upper

42 100

74 75.3 62.2 93.2

44 5.5 7.1 10.7#



#4

2-Fluorophenol

Concen: 1.625 ng

RT: 5.409 min Scan# 357

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

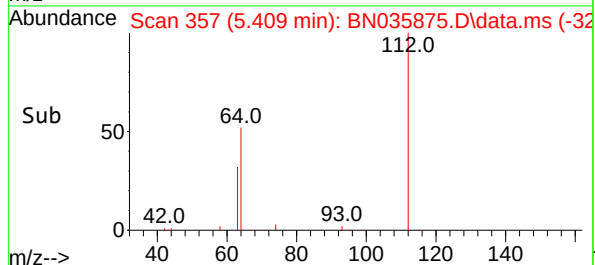
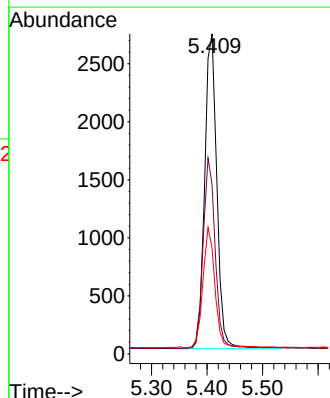
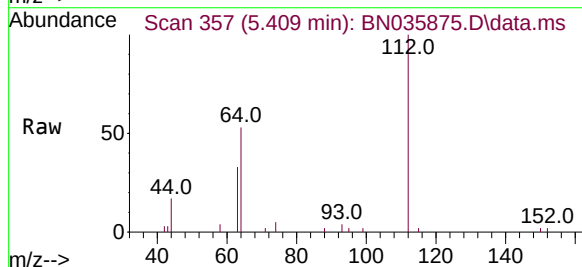
Tgt Ion: 112 Resp: 4142

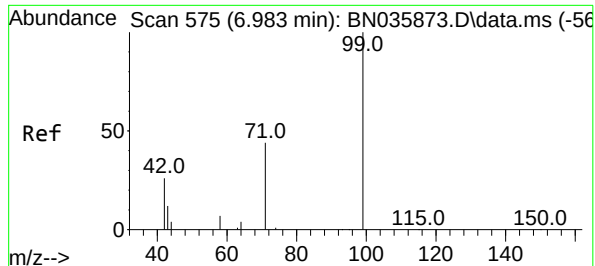
Ion Ratio Lower Upper

112 100

64 60.1 48.2 72.2

63 37.0 30.0 45.0

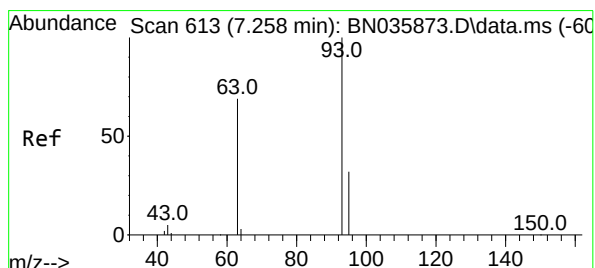
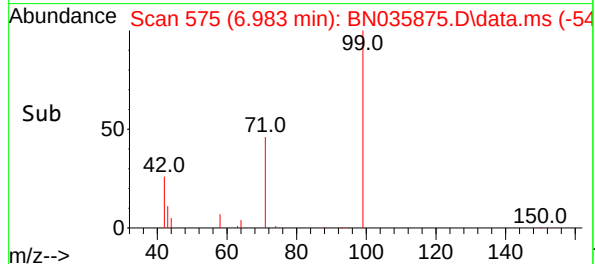
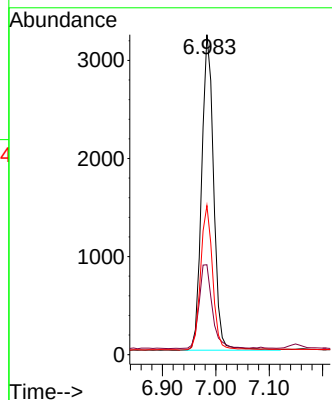
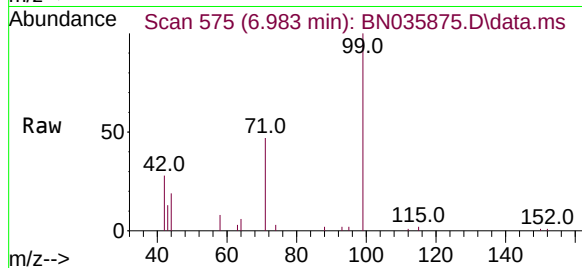




#5
Phenol-d6
Concen: 1.595 ng
RT: 6.983 min Scan# 575
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

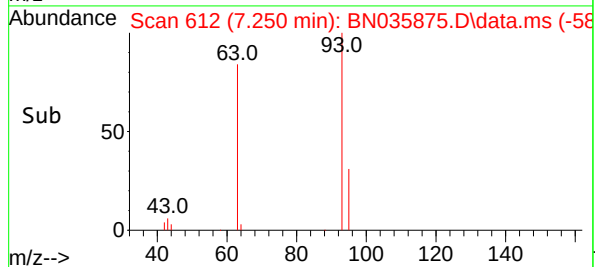
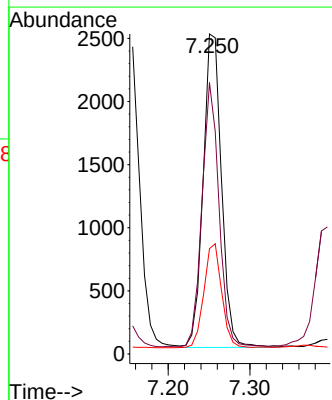
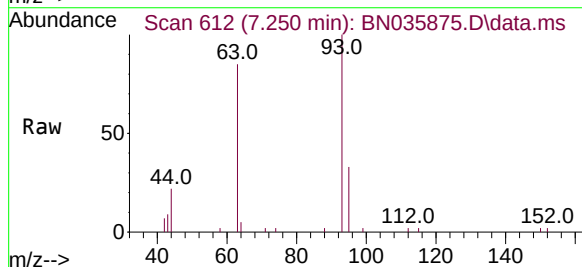
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

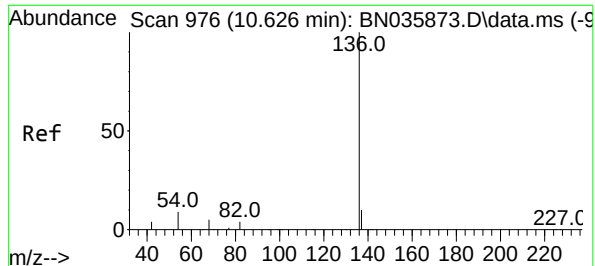
Tgt Ion	Ratio	Lower	Upper
99	100		
42	29.5	23.5	35.3
71	45.9	35.5	53.3



#6
bis(2-Chloroethyl)ether
Concen: 1.617 ng
RT: 7.250 min Scan# 612
Delta R.T. -0.007 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion	Ratio	Lower	Upper
93	100		
63	77.8	62.0	93.0
95	32.1	25.5	38.3

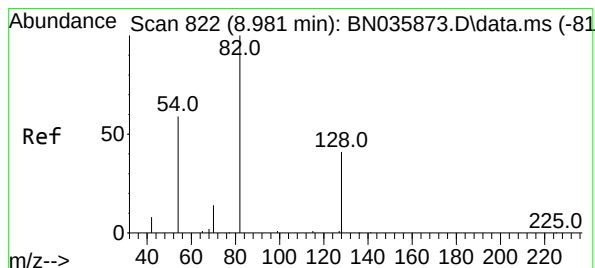
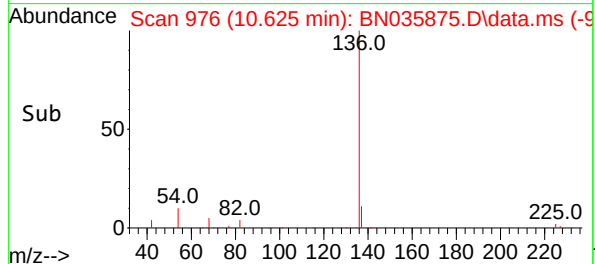
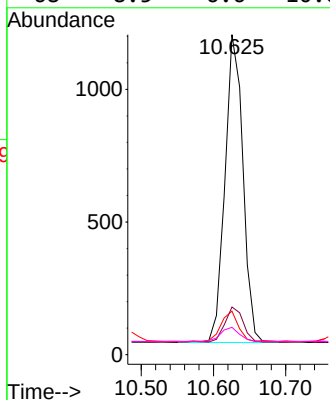
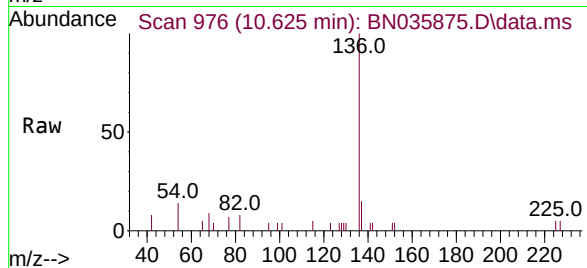




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.625 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

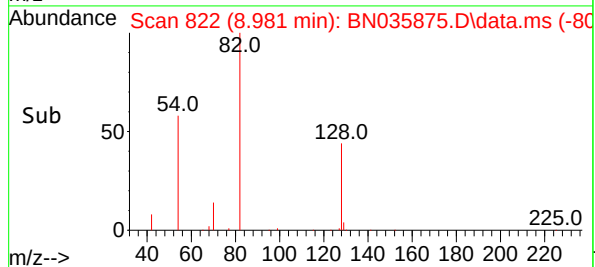
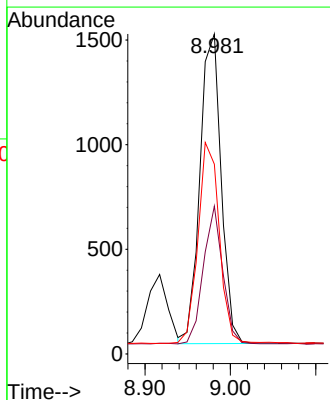
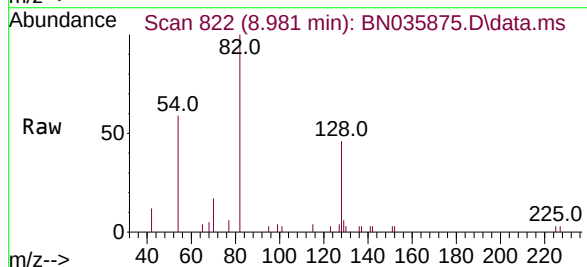
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

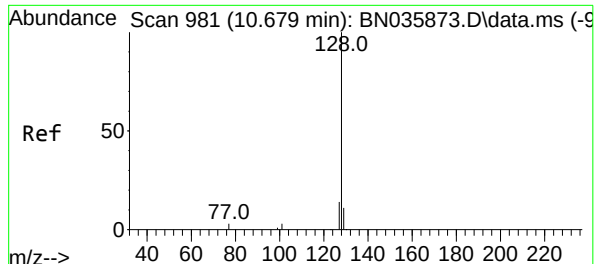
Tgt Ion:	136	Resp:	2002
Ion	Ratio	Lower	Upper
136	100		
137	14.9	10.6	15.8
54	13.6	9.8	14.6
68	8.5	6.6	10.0



#8
Nitrobenzene-d5
Concen: 1.612 ng
RT: 8.981 min Scan# 822
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion:	82	Resp:	2556
Ion	Ratio	Lower	Upper
82	100		
128	46.2	36.9	55.3
54	59.3	50.4	75.6





#9

Naphthalene

Concen: 1.663 ng

RT: 10.679 min Scan# 981

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

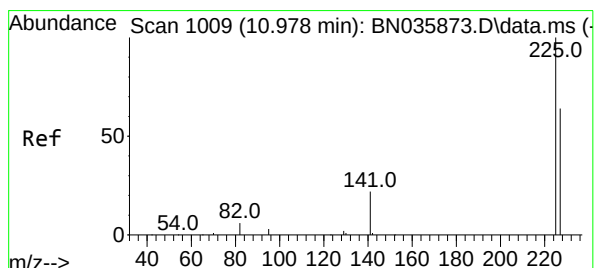
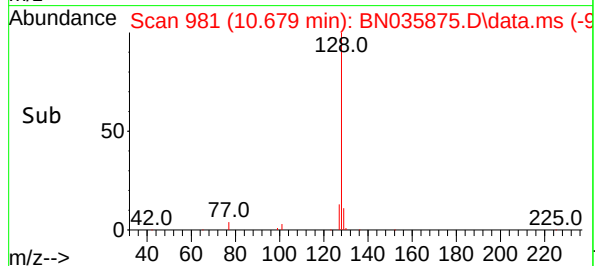
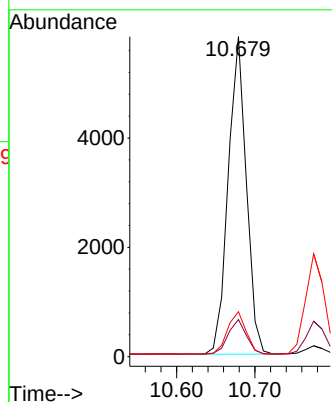
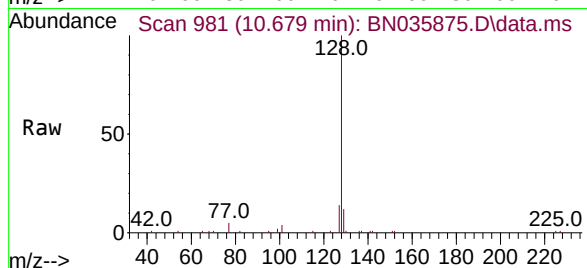
Tgt Ion:128 Resp: 9344

Ion Ratio Lower Upper

128 100

129 11.6 10.6 16.0

127 14.1 12.8 19.2



#10

Hexachlorobutadiene

Concen: 1.678 ng

RT: 10.978 min Scan# 1009

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

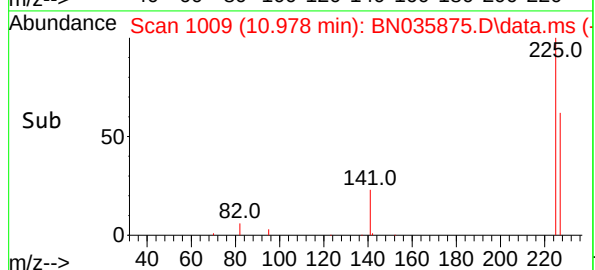
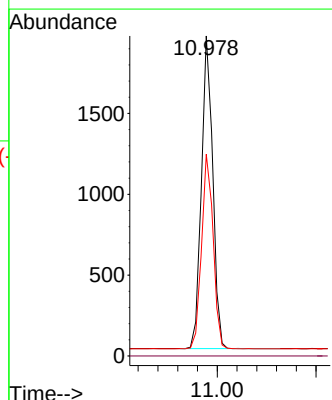
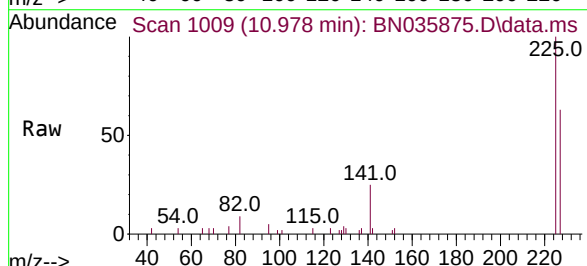
Tgt Ion:225 Resp: 3062

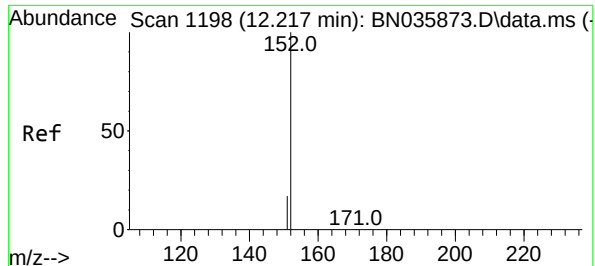
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.7 51.5 77.3

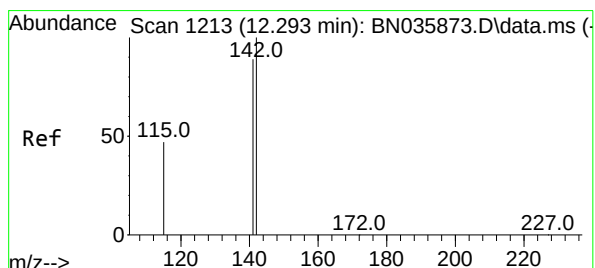
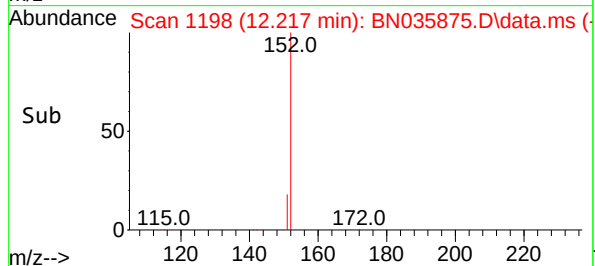
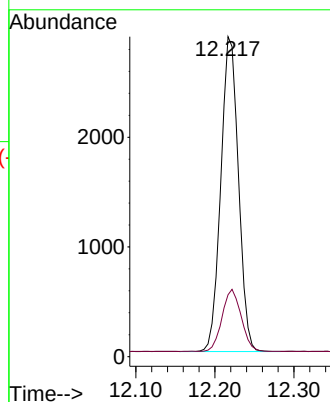
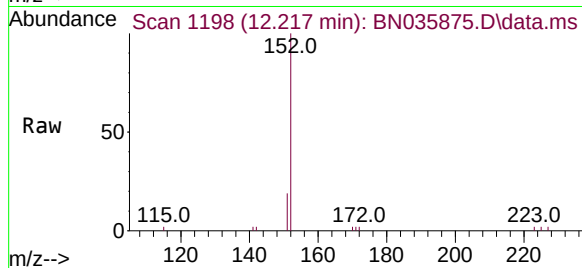




#11
2-Methylnaphthalene-d10
Concen: 1.662 ng
RT: 12.217 min Scan# 1198
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

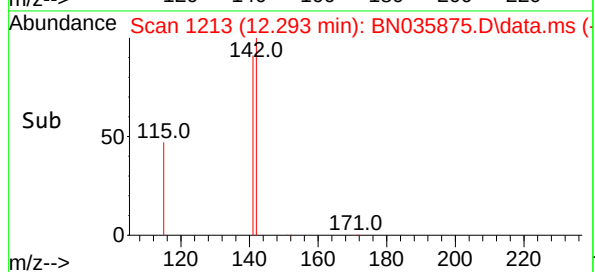
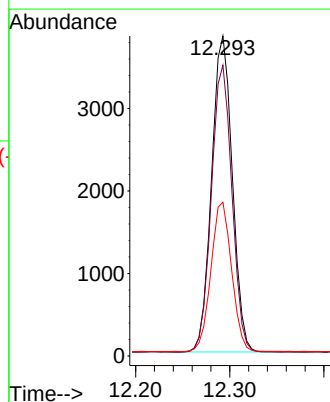
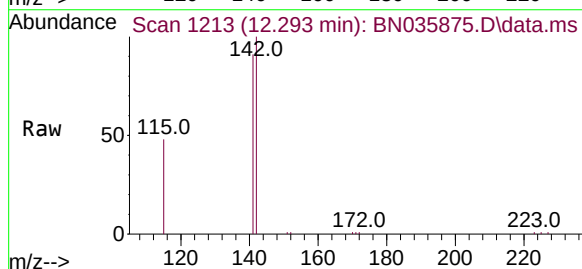
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

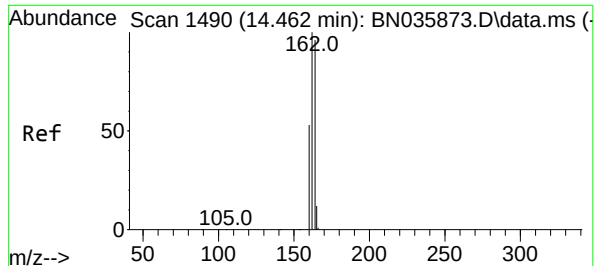
Tgt Ion:152 Resp: 4454
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 1.682 ng
RT: 12.293 min Scan# 1213
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion:142 Resp: 5850
Ion Ratio Lower Upper
142 100
141 90.9 71.9 107.9
115 48.1 39.6 59.4

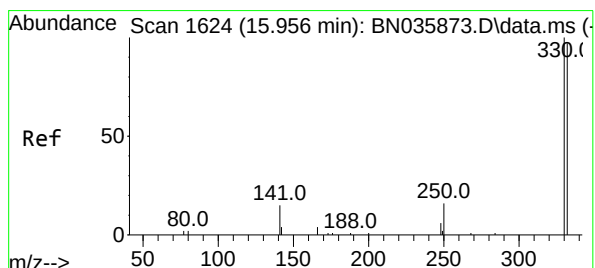
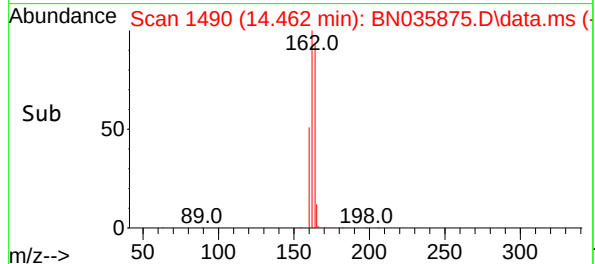
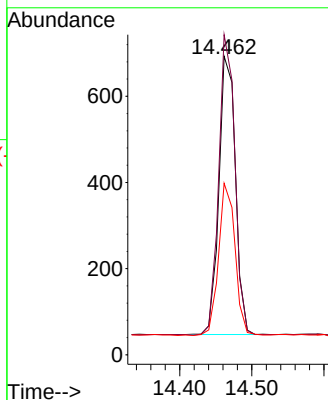
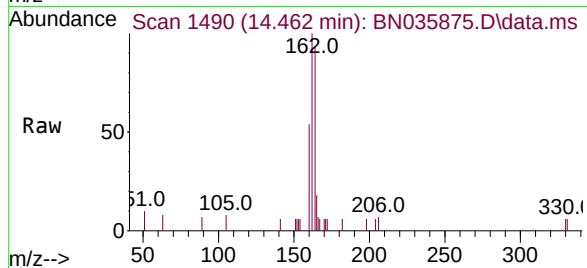




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.462 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

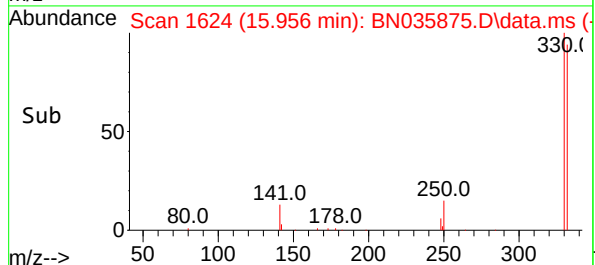
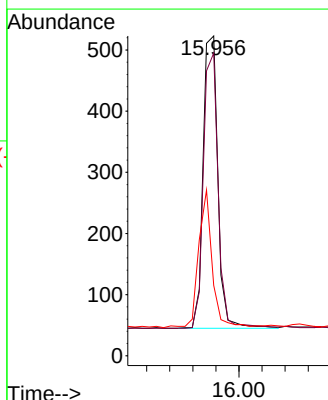
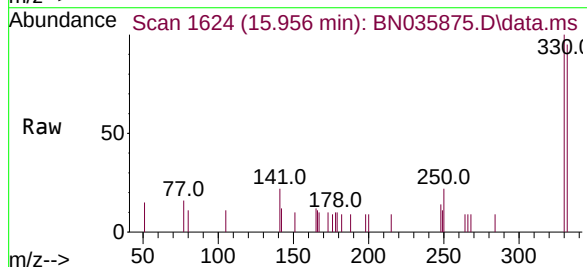
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

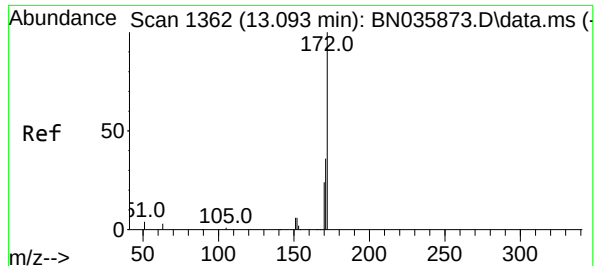
Tgt Ion:164 Resp: 1024
Ion Ratio Lower Upper
164 100
162 107.2 83.1 124.7
160 57.4 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 1.723 ng
RT: 15.956 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion:330 Resp: 847
Ion Ratio Lower Upper
330 100
332 94.3 77.2 115.8
141 43.6 31.6 47.4





#15

2-Fluorobiphenyl

Concen: 1.661 ng

RT: 13.093 min Scan# 1362

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

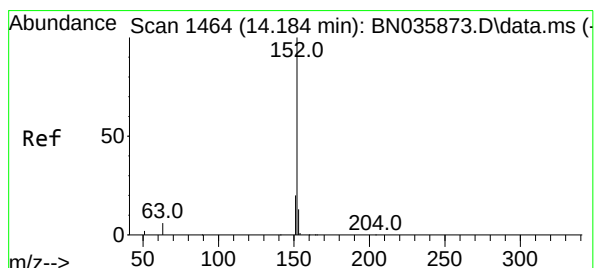
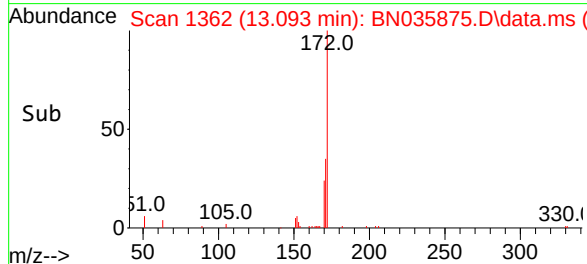
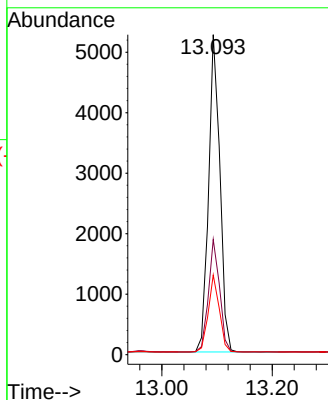
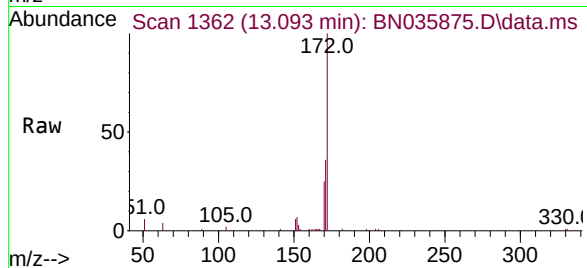
Tgt Ion:172 Resp: 7465

Ion Ratio Lower Upper

172 100

171 36.0 30.5 45.7

170 24.9 20.8 31.2



#16

Acenaphthylene

Concen: 1.666 ng

RT: 14.184 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

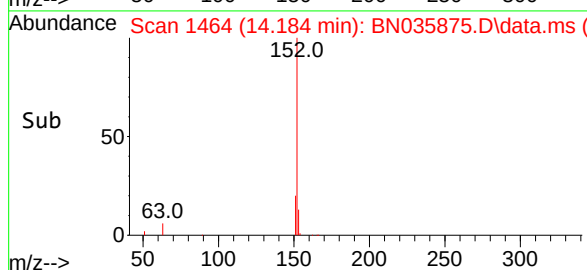
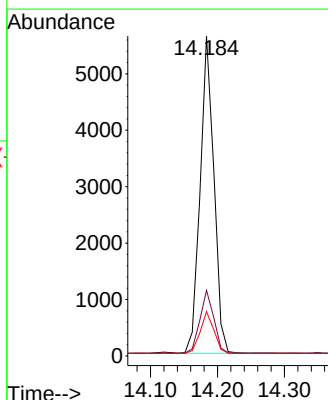
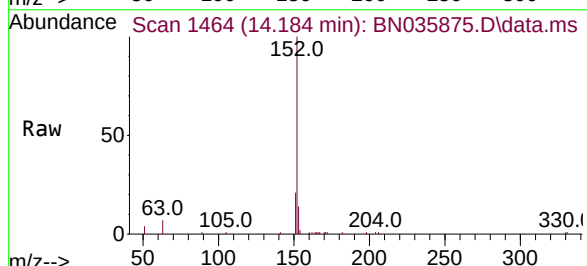
Tgt Ion:152 Resp: 8035

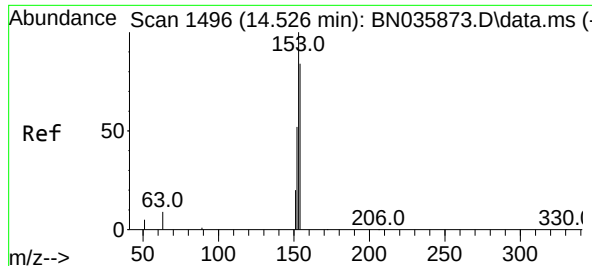
Ion Ratio Lower Upper

152 100

151 20.2 16.3 24.5

153 13.1 10.6 15.8





#17

Acenaphthene

Concen: 1.684 ng

RT: 14.526 min Scan# 1496

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

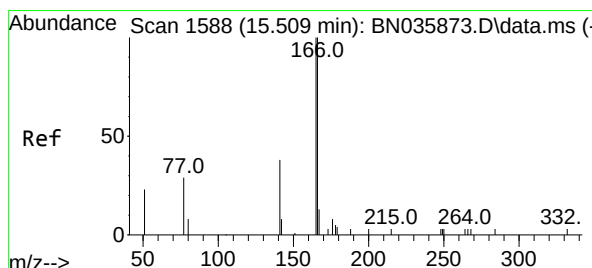
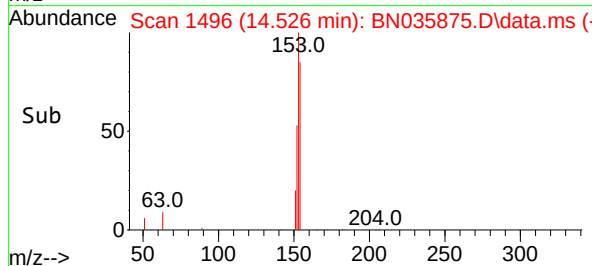
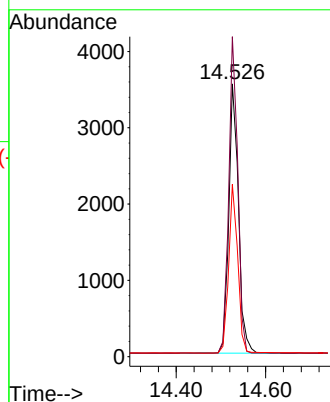
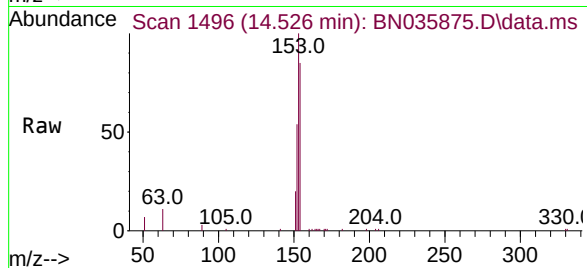
Tgt Ion:154 Resp: 5325

Ion Ratio Lower Upper

154 100

153 109.7 90.5 135.7

152 59.1 48.6 73.0



#18

Fluorene

Concen: 1.671 ng

RT: 15.509 min Scan# 1588

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

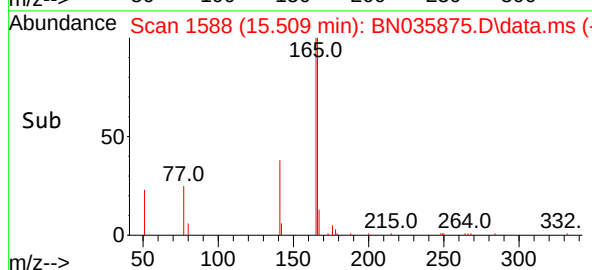
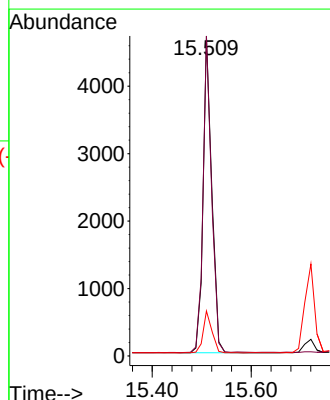
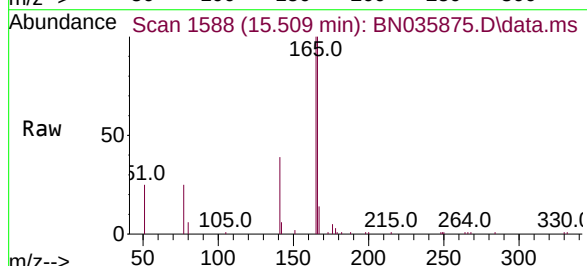
Tgt Ion:166 Resp: 5812

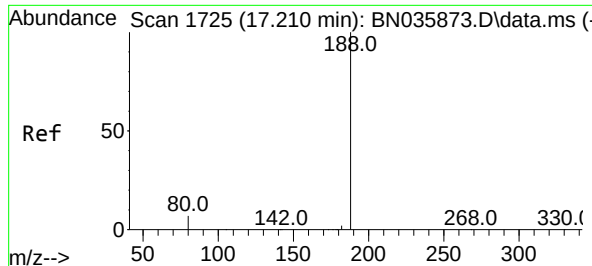
Ion Ratio Lower Upper

166 100

165 98.0 80.6 120.8

167 13.1 11.4 17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

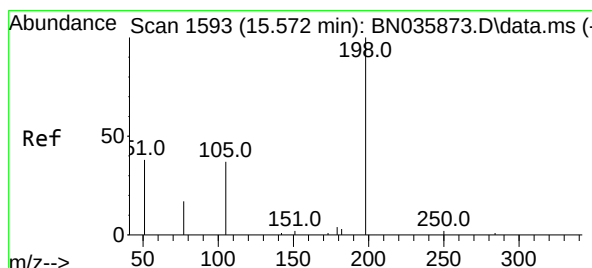
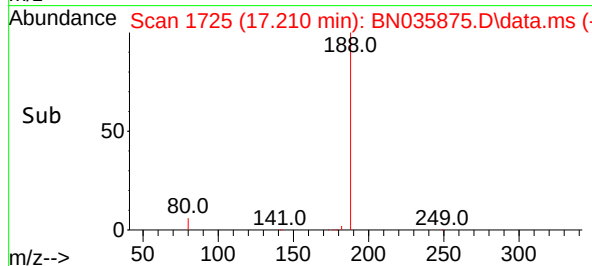
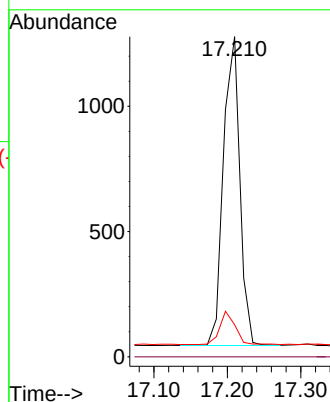
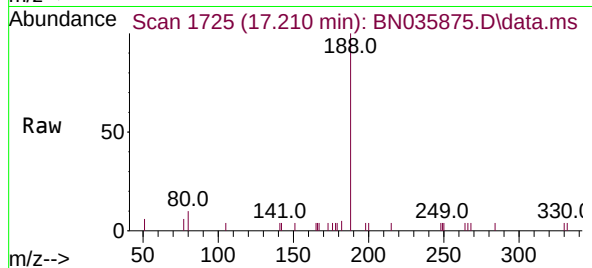
Tgt Ion:188 Resp: 1916

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.0 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 1.758 ng

RT: 15.571 min Scan# 1593

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

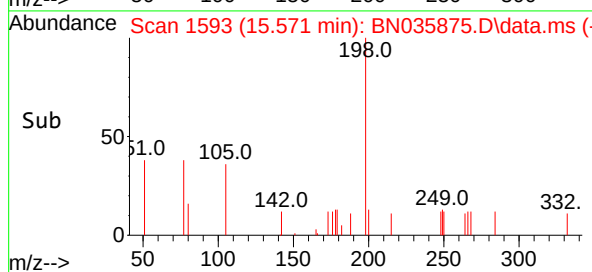
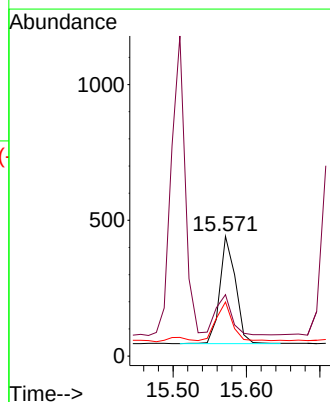
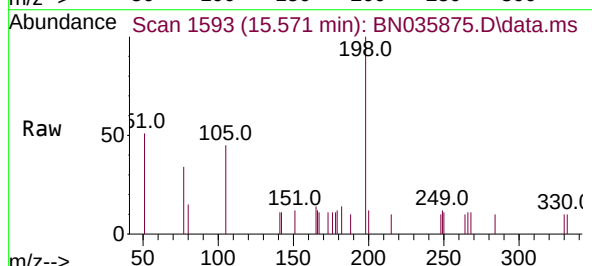
Tgt Ion:198 Resp: 585

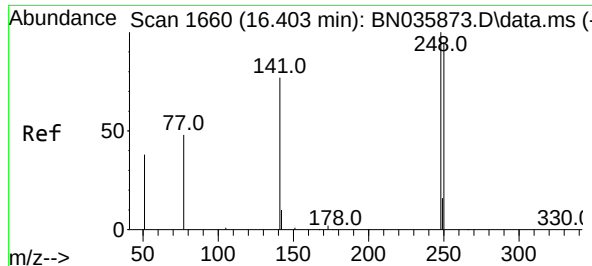
Ion Ratio Lower Upper

198 100

51 51.2 64.3 96.5#

105 45.1 50.0 75.0#

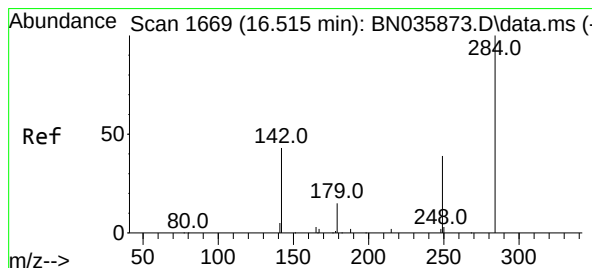
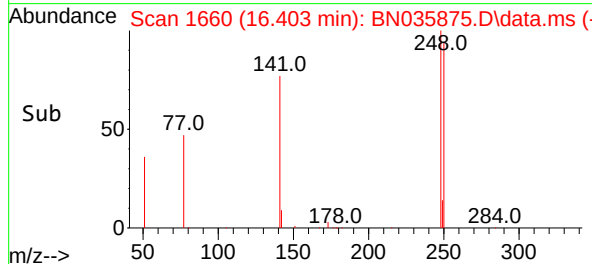
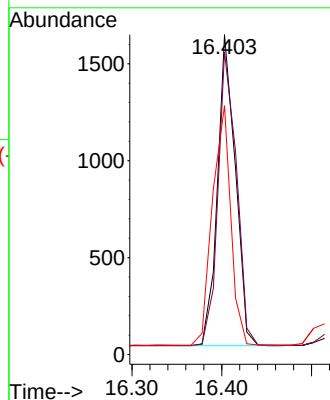
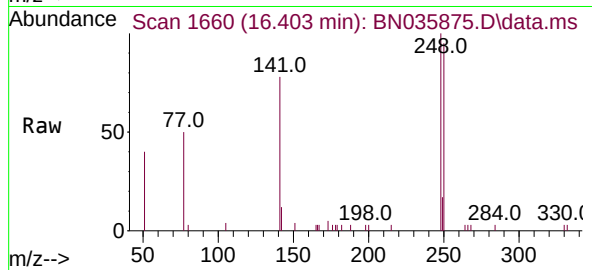




#21
4-Bromophenyl-phenylether
Concen: 1.689 ng
RT: 16.403 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

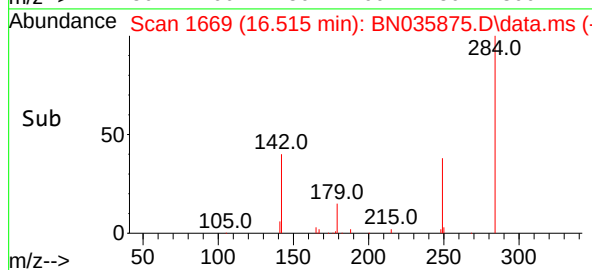
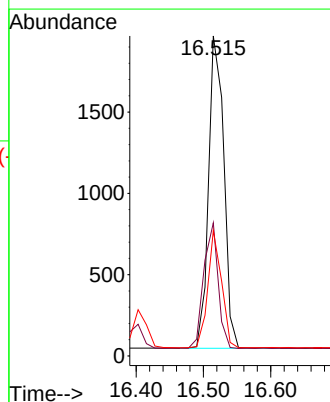
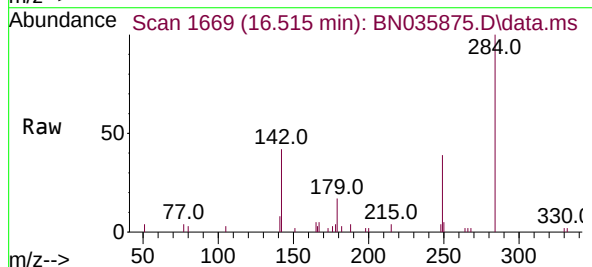
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

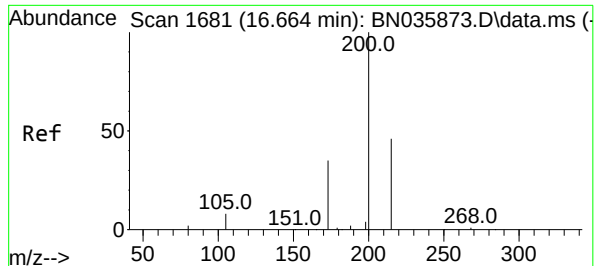
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.7	76.8	115.2
141	77.8	63.6	95.4



#22
Hexachlorobenzene
Concen: 1.687 ng
RT: 16.515 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.1	31.4	47.0
249	33.9	27.8	41.8

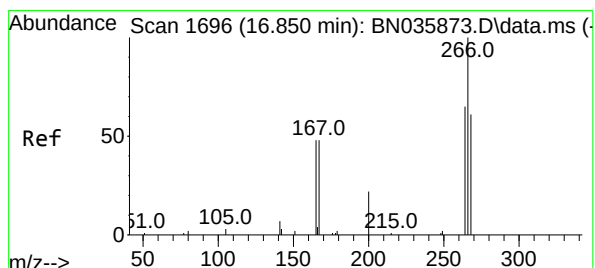
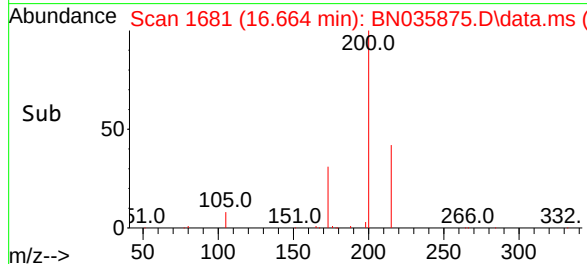
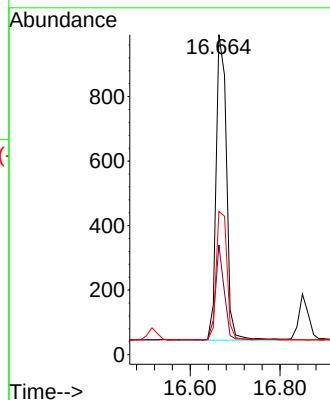
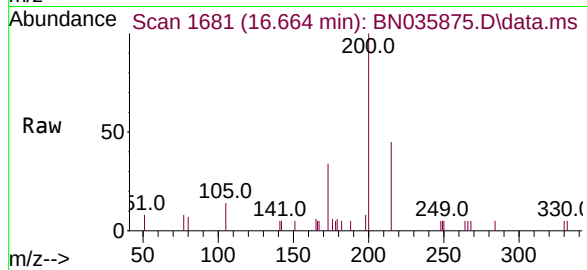




#23
Atrazine
Concen: 1.720 ng
RT: 16.664 min Scan# 1681
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

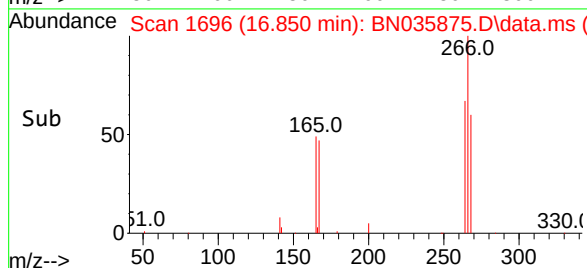
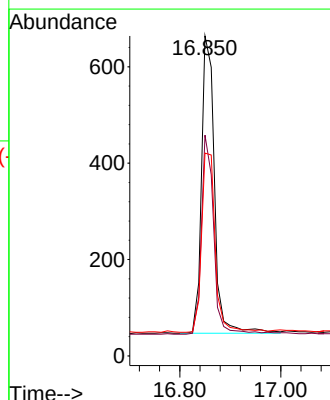
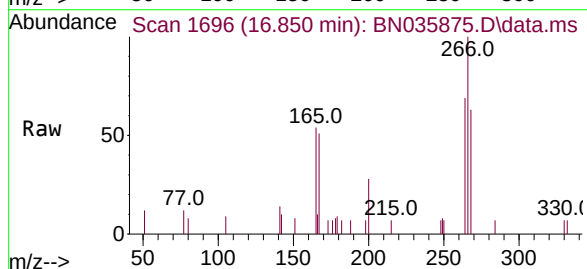
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

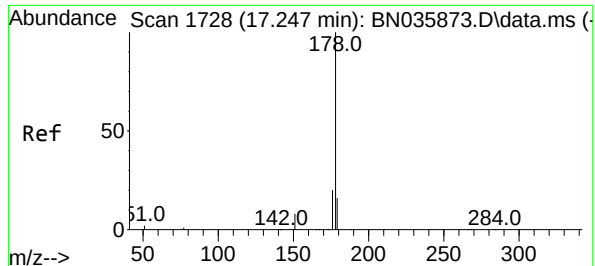
Tgt Ion:200 Resp: 1516
Ion Ratio Lower Upper
200 100
173 34.3 35.4 53.0#
215 44.8 42.4 63.6



#24
Pentachlorophenol
Concen: 1.733 ng
RT: 16.850 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion:266 Resp: 1099
Ion Ratio Lower Upper
266 100
264 63.3 49.9 74.9
268 64.0 50.2 75.2

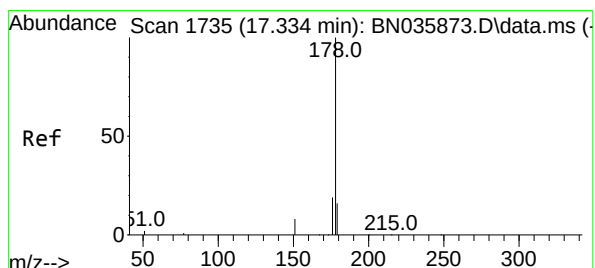
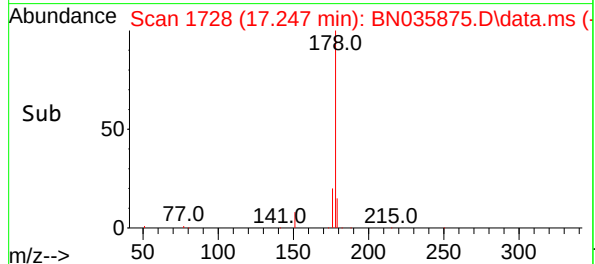
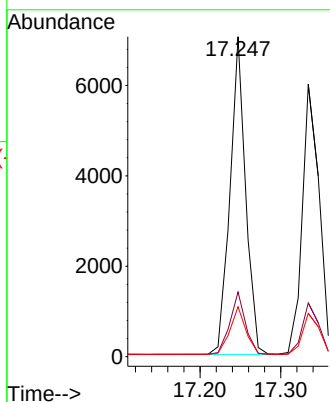
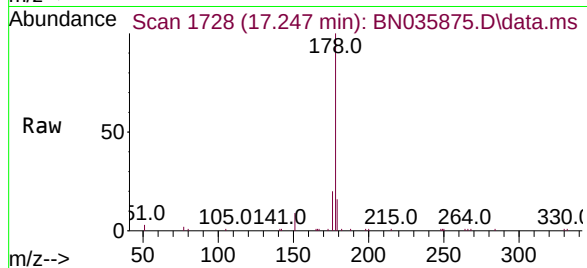




#25
Phenanthrene
Concen: 1.683 ng
RT: 17.247 min Scan# 1728
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

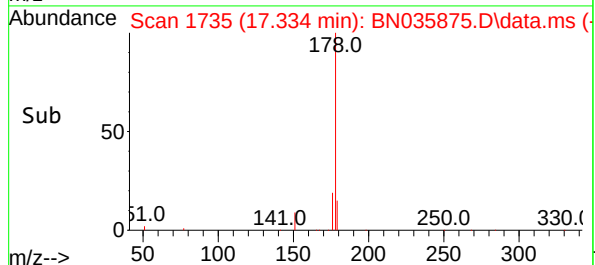
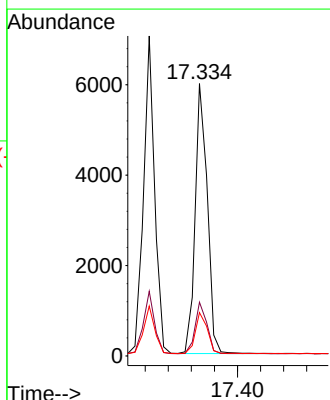
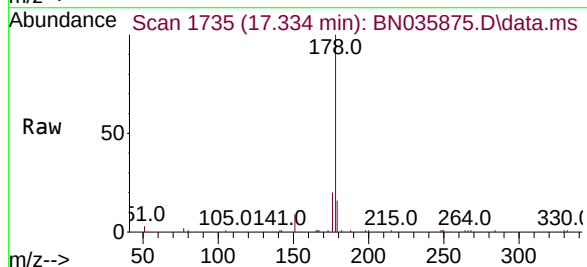
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

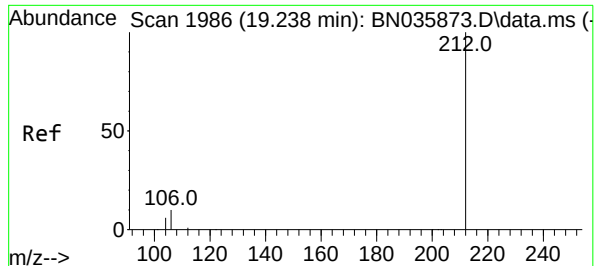
Tgt Ion:178 Resp: 9410
Ion Ratio Lower Upper
178 100
176 19.5 15.9 23.9
179 15.2 12.9 19.3



#26
Anthracene
Concen: 1.713 ng
RT: 17.334 min Scan# 1735
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion:178 Resp: 8714
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.3 13.0 19.6





#27

Fluoranthene-d10

Concen: 1.657 ng

RT: 19.238 min Scan# 1986

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

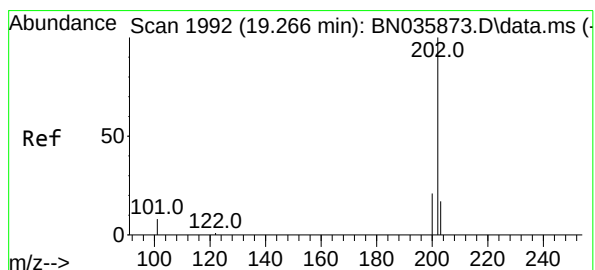
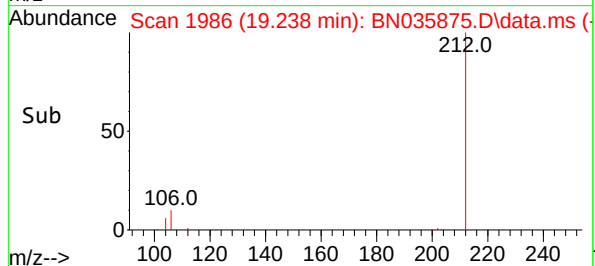
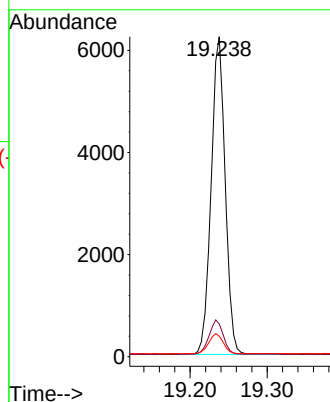
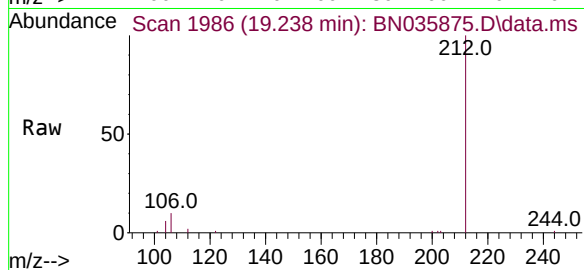
Tgt Ion:212 Resp: 7879

Ion Ratio Lower Upper

212 100

106 10.8 9.0 13.6

104 6.6 5.4 8.2



#28

Fluoranthene

Concen: 1.694 ng

RT: 19.266 min Scan# 1992

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

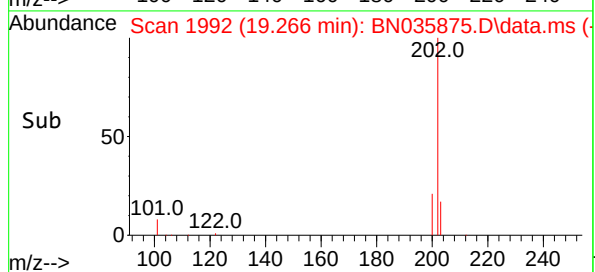
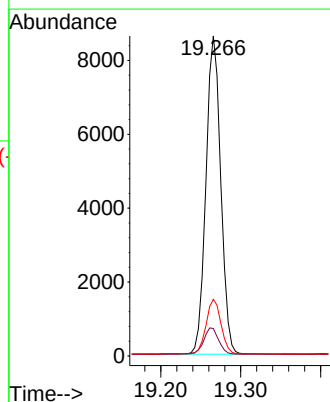
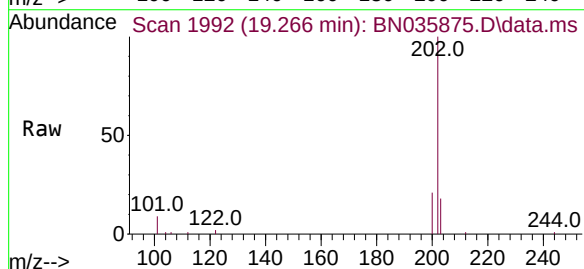
Tgt Ion:202 Resp: 11040

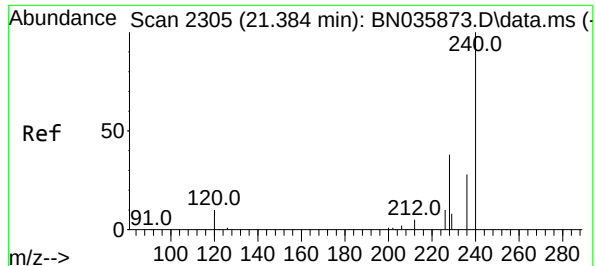
Ion Ratio Lower Upper

202 100

101 8.5 7.2 10.8

203 17.3 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

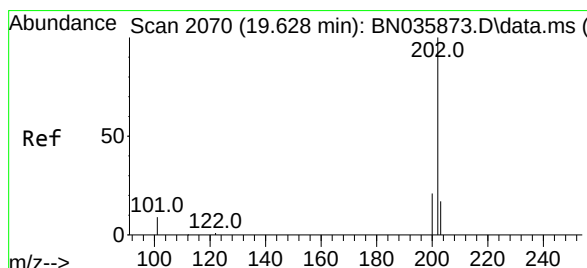
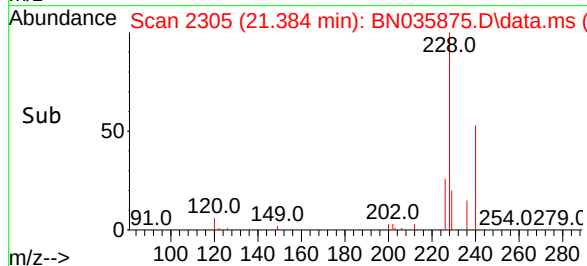
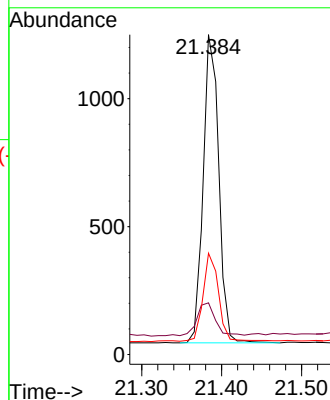
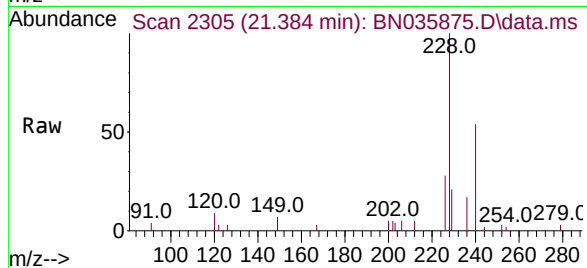
Tgt Ion:240 Resp: 1622

Ion Ratio Lower Upper

240 100

120 16.2 11.1 16.7

236 31.7 24.6 36.8



#30

Pyrene

Concen: 1.686 ng

RT: 19.628 min Scan# 2070

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

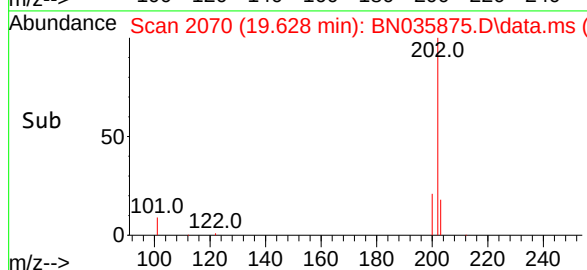
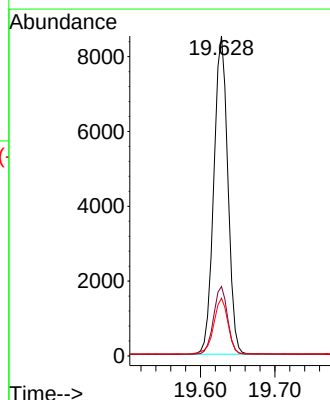
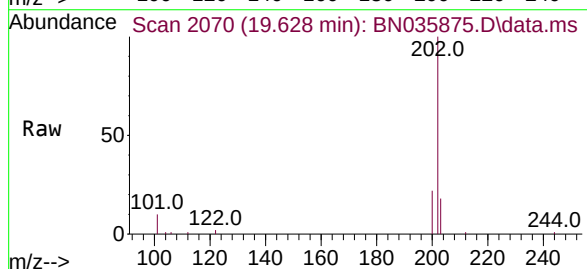
Tgt Ion:202 Resp: 11104

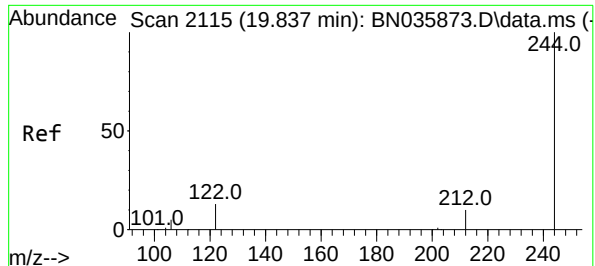
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.6

203 17.8 14.6 22.0

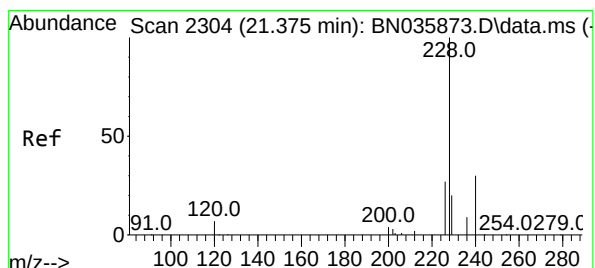
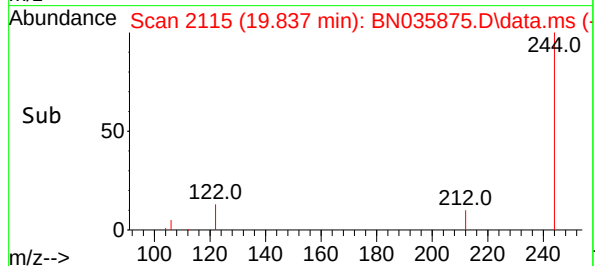
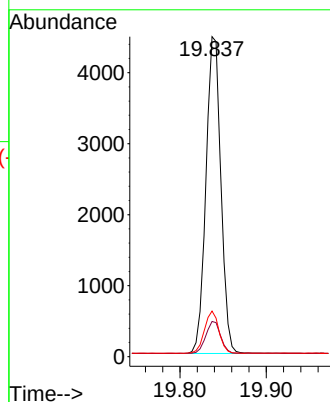
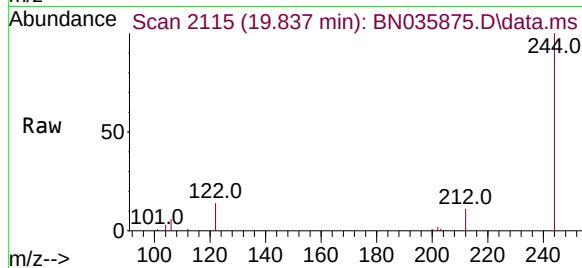




#31
Terphenyl-d14
Concen: 1.662 ng
RT: 19.837 min Scan# 2115
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

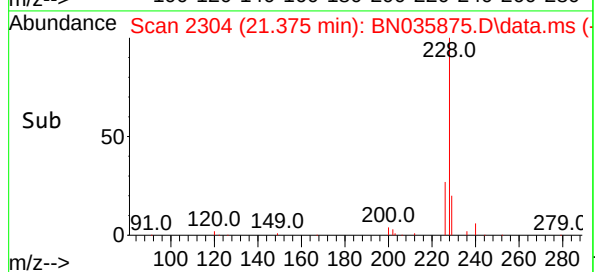
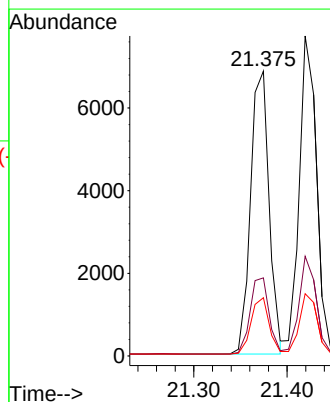
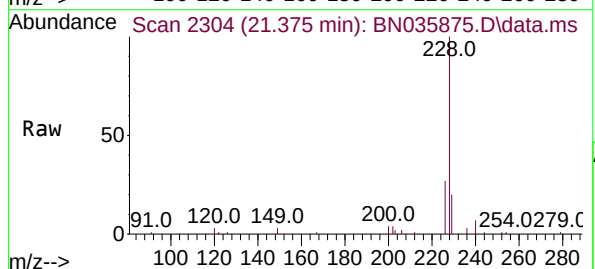
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

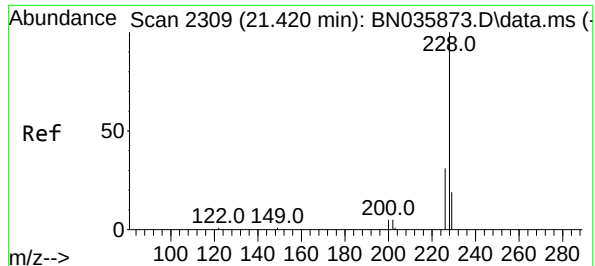
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.0	10.1	15.1
122	14.3	12.2	18.4



#32
Benzo(a)anthracene
Concen: 1.659 ng
RT: 21.375 min Scan# 2304
Delta R.T. -0.000 min
Lab File: BN035875.D
Acq: 02 Jan 2025 13:52

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.7	34.1
229	20.4	17.1	25.7





#33

Chrysene

Concen: 1.672 ng

RT: 21.419 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

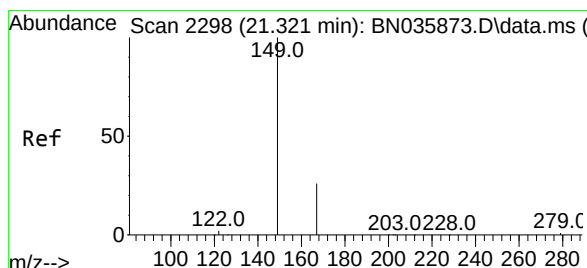
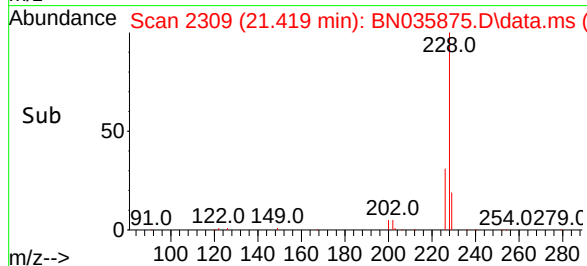
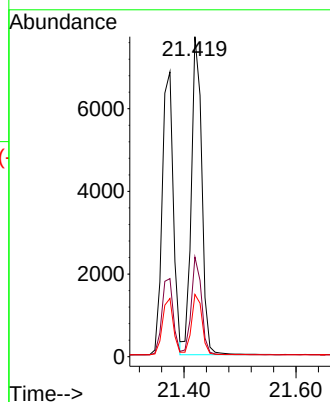
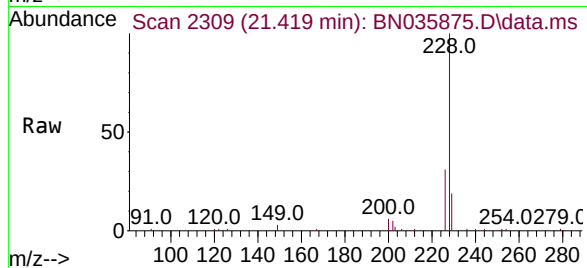
Tgt Ion:228 Resp: 10000

Ion Ratio Lower Upper

228 100

226 31.1 25.2 37.8

229 19.5 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.586 ng

RT: 21.330 min Scan# 2299

Delta R.T. 0.009 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

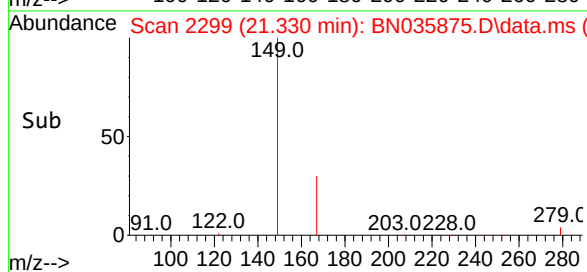
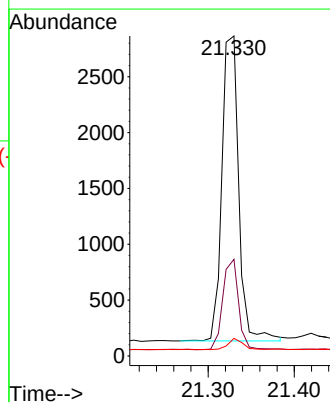
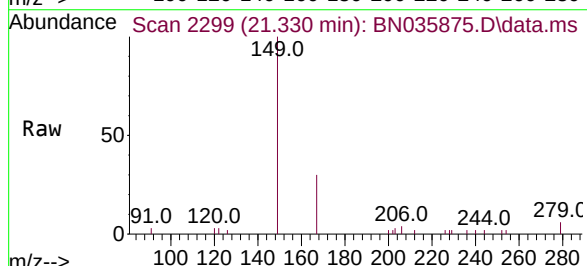
Tgt Ion:149 Resp: 3691

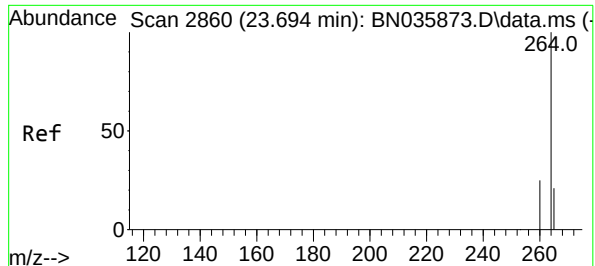
Ion Ratio Lower Upper

149 100

167 27.8 21.4 32.0

279 3.2 3.0 4.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.691 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

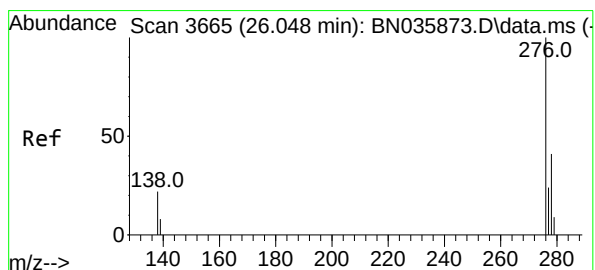
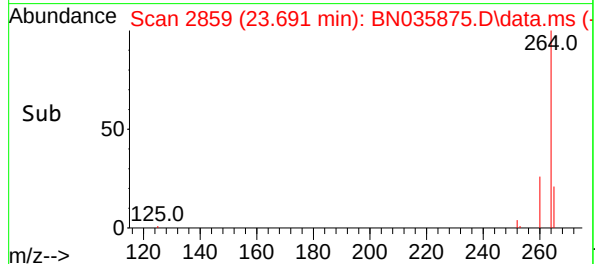
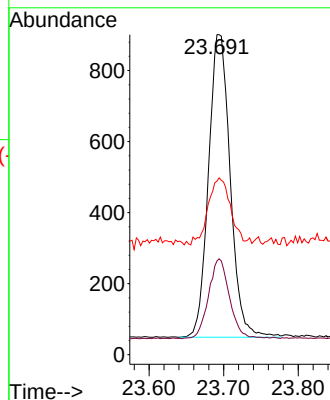
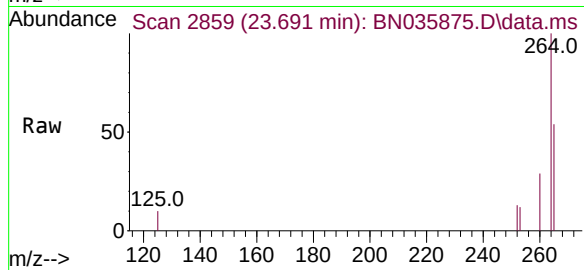
Tgt Ion:264 Resp: 1727

Ion Ratio Lower Upper

264 100

260 29.3 21.7 32.5

265 54.3 33.9 50.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.721 ng

RT: 26.056 min Scan# 3668

Delta R.T. 0.009 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

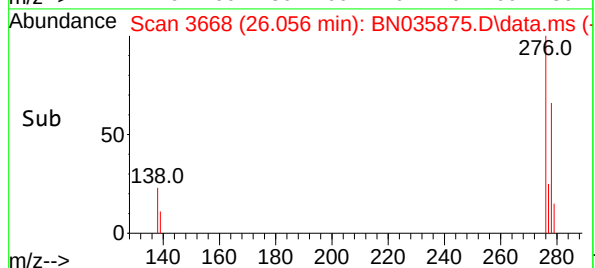
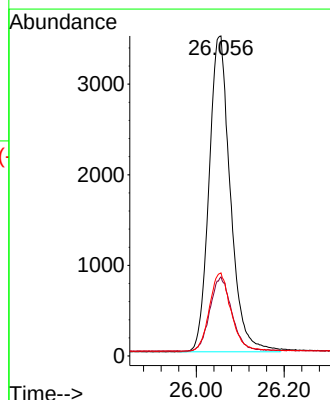
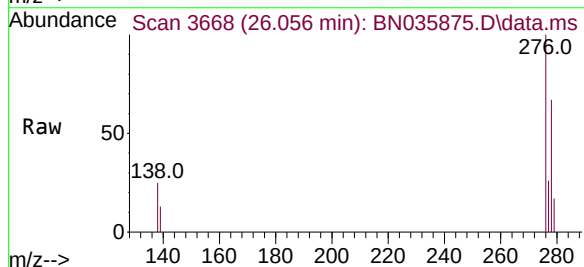
Tgt Ion:276 Resp: 11724

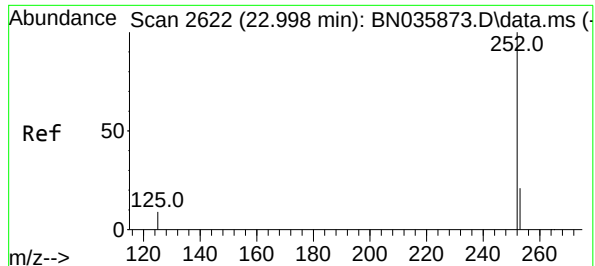
Ion Ratio Lower Upper

276 100

138 24.1 18.9 28.3

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 1.707 ng

RT: 22.998 min Scan# 2622

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

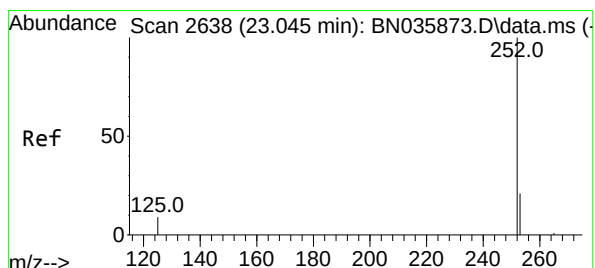
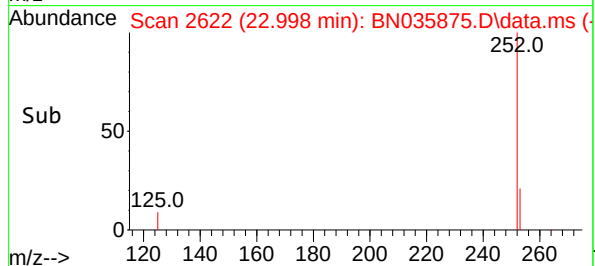
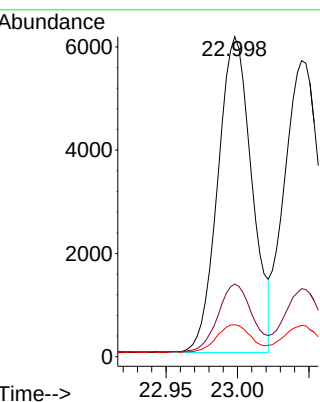
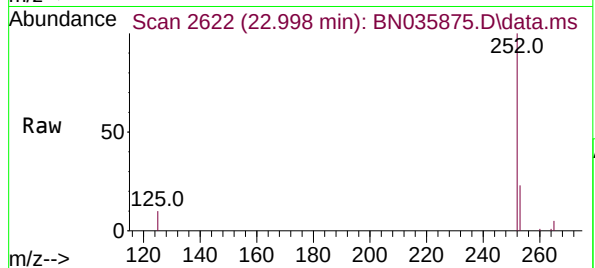
Tgt Ion:252 Resp: 10128

Ion Ratio Lower Upper

252 100

253 22.7 20.1 30.1

125 10.0 9.9 14.9



#38

Benzo(k)fluoranthene

Concen: 1.728 ng

RT: 23.045 min Scan# 2638

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

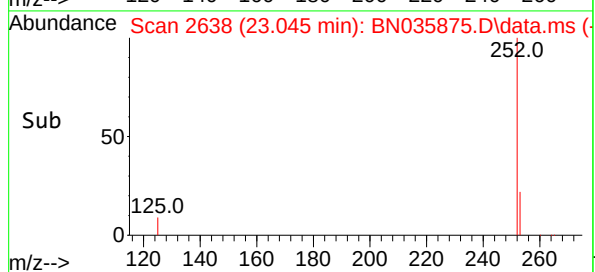
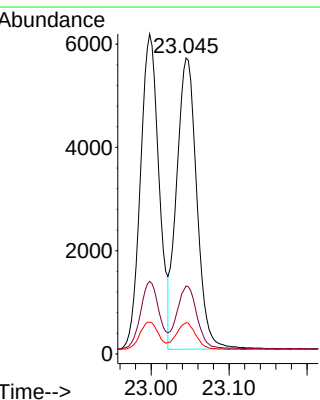
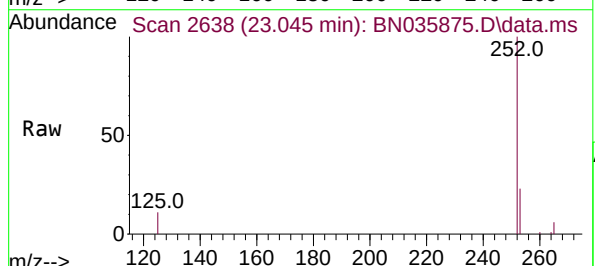
Tgt Ion:252 Resp: 10151

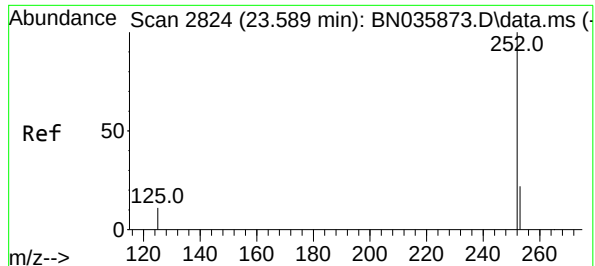
Ion Ratio Lower Upper

252 100

253 23.0 20.5 30.7

125 10.6 10.6 16.0#





#39

Benzo(a)pyrene

Concen: 1.709 ng

RT: 23.592 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

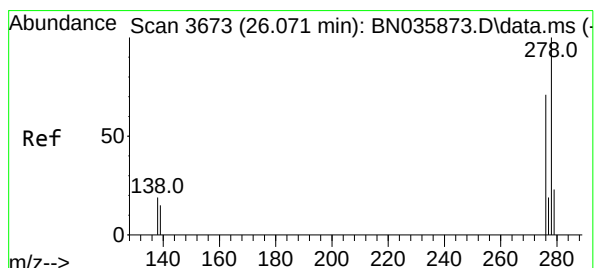
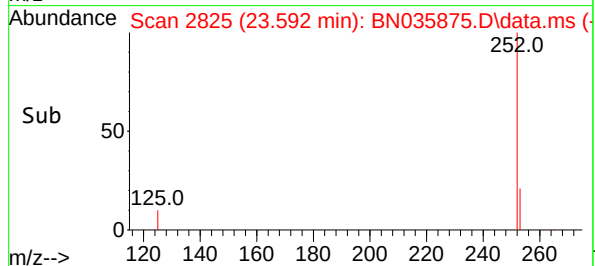
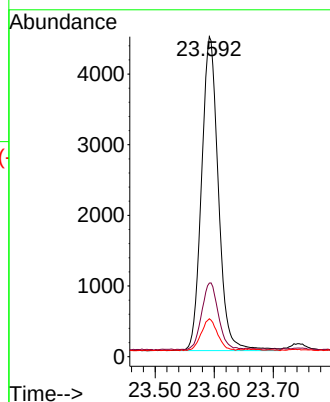
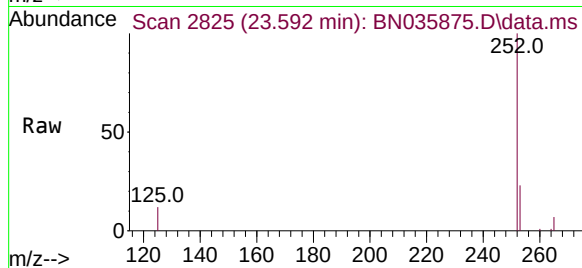
Tgt Ion:252 Resp: 8775

Ion Ratio Lower Upper

252 100

253 23.0 21.5 32.3

125 11.9 12.6 19.0#



#40

Dibenzo(a,h)anthracene

Concen: 1.738 ng

RT: 26.071 min Scan# 3673

Delta R.T. -0.000 min

Lab File: BN035875.D

Acq: 02 Jan 2025 13:52

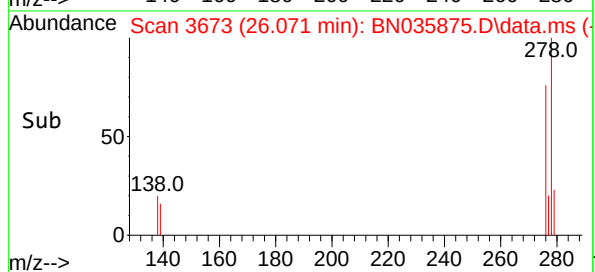
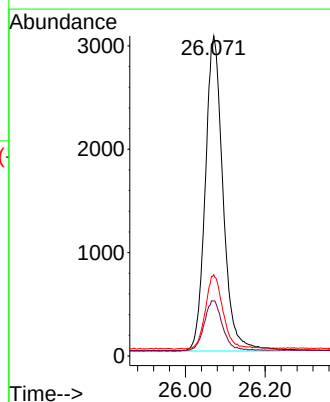
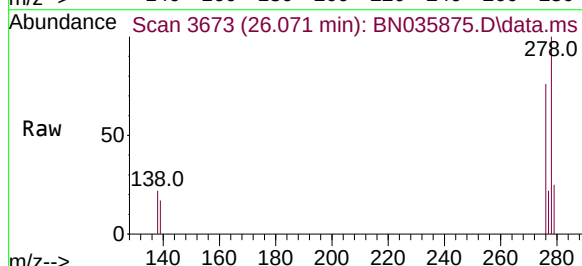
Tgt Ion:278 Resp: 9415

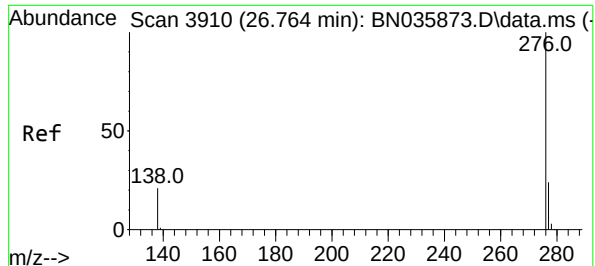
Ion Ratio Lower Upper

278 100

139 17.2 15.9 23.9

279 25.4 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 1.699 ng

RT: 26.764 min Scan# 3910

Delta R.T. -0.000 min

Lab File: BN035875.D

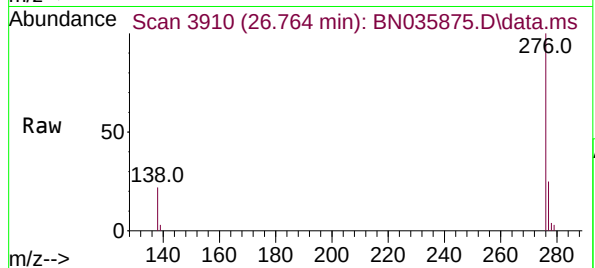
Acq: 02 Jan 2025 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



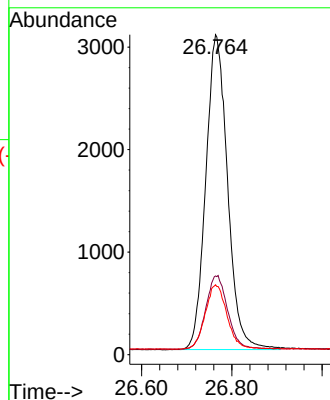
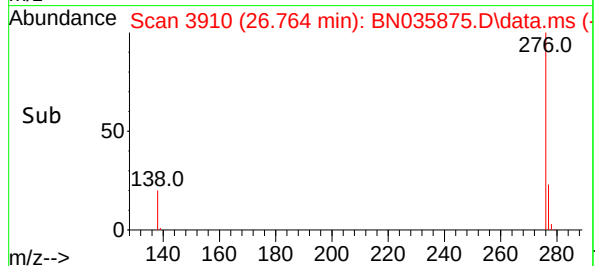
Tgt Ion:276 Resp: 10294

Ion Ratio Lower Upper

276 100

277 24.6 22.8 34.2

138 21.8 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035876.D
 Acq On : 02 Jan 2025 14:28
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Jan 02 15:51:07 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

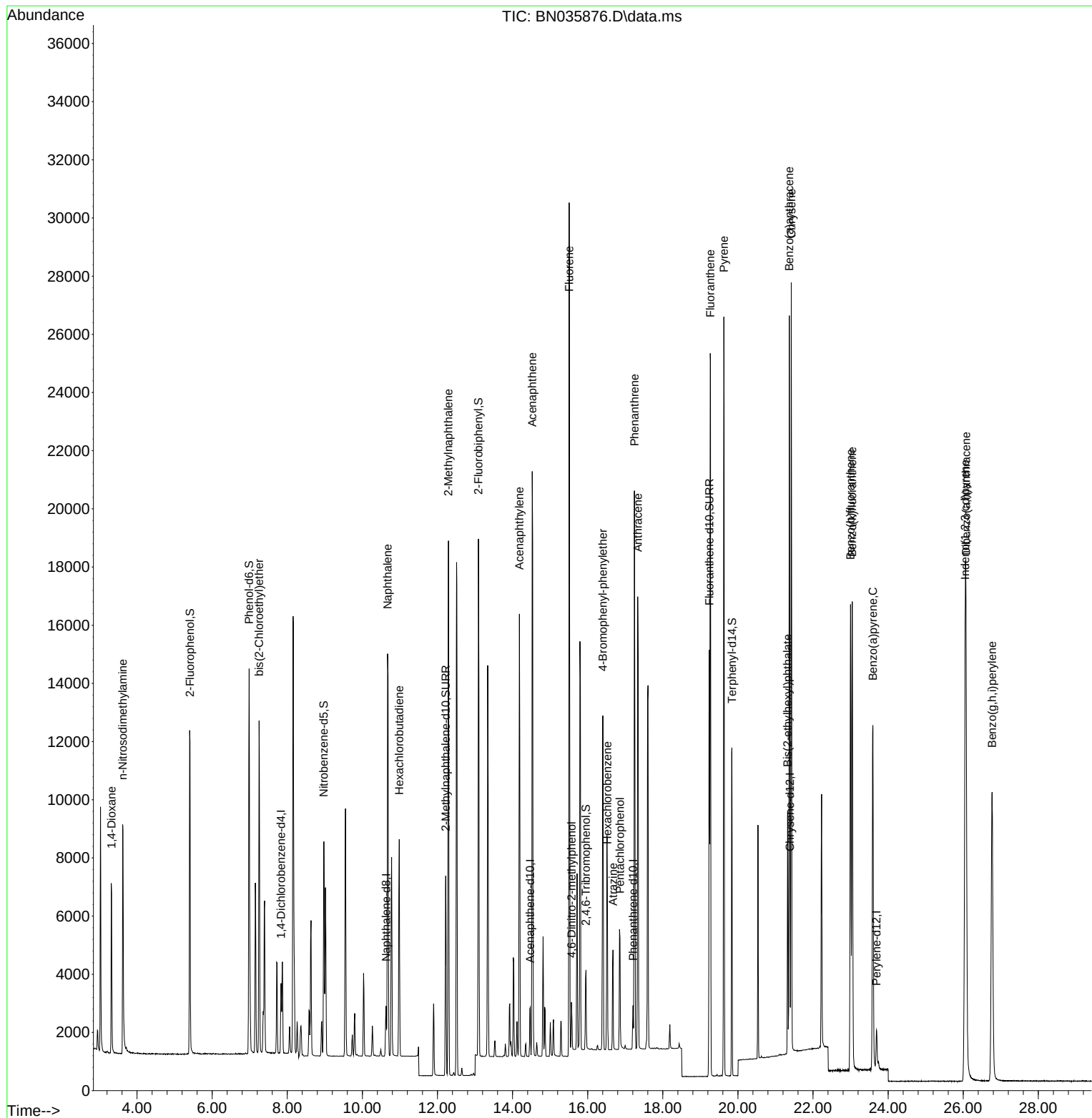
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.836	152	1084	0.400	ng	0.00
7) Naphthalene-d8	10.629	136	2065	0.400	ng	0.00
13) Acenaphthene-d10	14.470	164	1017	0.400	ng	0.00
19) Phenanthrene-d10	17.208	188	1903	0.400	ng	0.00
29) Chrysene-d12	21.386	240	1710	0.400	ng	0.00
35) Perylene-d12	23.691	264	1808	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.409	112	8292	3.118	ng	0.00
5) Phenol-d6	6.983	99	10087	3.054	ng	0.00
8) Nitrobenzene-d5	8.974	82	5234	3.201	ng	0.00
11) 2-Methylnaphthalene-d10	12.220	152	8654	3.130	ng	0.00
14) 2,4,6-Tribromophenol	15.954	330	1714	3.510	ng	0.00
15) 2-Fluorobiphenyl	13.091	172	14471	3.243	ng	0.00
27) Fluoranthene-d10	19.236	212	15378	3.255	ng	0.00
31) Terphenyl-d14	19.840	244	10611	3.114	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.322	88	3270	3.037	ng	97
3) n-Nitrosodimethylamine	3.618	42	5985	3.186	ng	# 95
6) bis(2-Chloroethyl)ether	7.251	93	7684	3.054	ng	100
9) Naphthalene	10.672	128	18395	3.173	ng	95
10) Hexachlorobutadiene	10.981	225	5988	3.182	ng	# 99
12) 2-Methylnaphthalene	12.291	142	11578	3.228	ng	99
16) Acenaphthylene	14.182	152	15847	3.309	ng	100
17) Acenaphthene	14.524	154	10376	3.304	ng	97
18) Fluorene	15.507	166	11752	3.402	ng	98
20) 4,6-Dinitro-2-methylph...	15.569	198	1163	3.519	ng	# 74
21) 4-Bromophenyl-phenylether	16.401	248	4303	3.298	ng	91
22) Hexachlorobenzene	16.525	284	5671	3.188	ng	99
23) Atrazine	16.674	200	2888	3.299	ng	# 78
24) Pentachlorophenol	16.860	266	2256	3.582	ng	99
25) Phenanthrene	17.245	178	18166	3.272	ng	99
26) Anthracene	17.332	178	17227	3.409	ng	98
28) Fluoranthene	19.268	202	22007	3.400	ng	99
30) Pyrene	19.626	202	22172	3.193	ng	99
32) Benzo(a)anthracene	21.368	228	19527	3.240	ng	98
33) Chrysene	21.422	228	20218	3.207	ng	98
34) Bis(2-ethylhexyl)phtha...	21.324	149	7099	2.894	ng	# 98
36) Indeno(1,2,3-cd)pyrene	26.050	276	24767	3.474	ng	99
37) Benzo(b)fluoranthene	22.998	252	20532	3.305	ng	# 93
38) Benzo(k)fluoranthene	23.045	252	20853	3.392	ng	# 92
39) Benzo(a)pyrene	23.591	252	17995	3.347	ng	# 90
40) Dibenzo(a,h)anthracene	26.073	278	19738	3.480	ng	92
41) Benzo(g,h,i)perylene	26.766	276	21709	3.423	ng	92

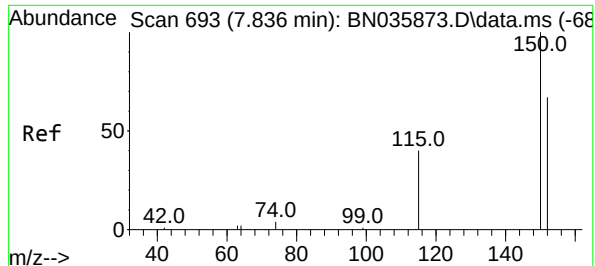
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035876.D
Acq On : 02 Jan 2025 14:28
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jan 02 15:51:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

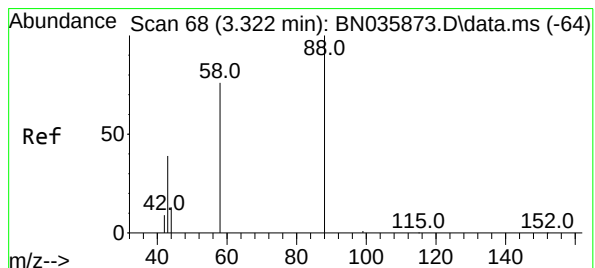
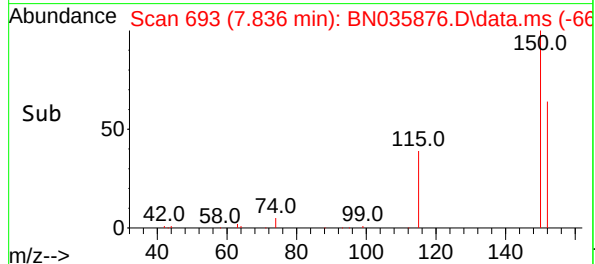
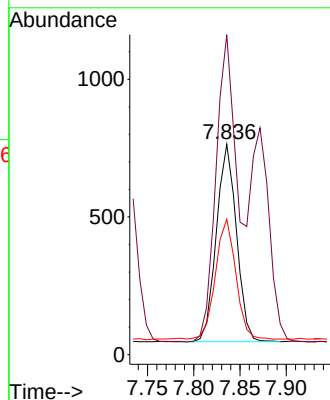
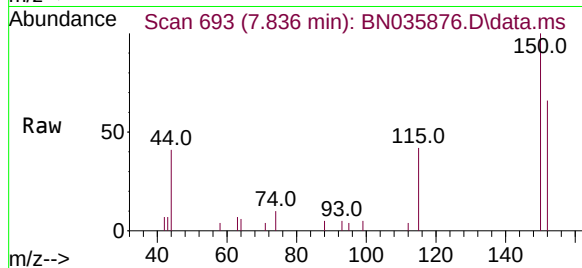




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.836 min Scan# 693
Delta R.T. -0.000 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

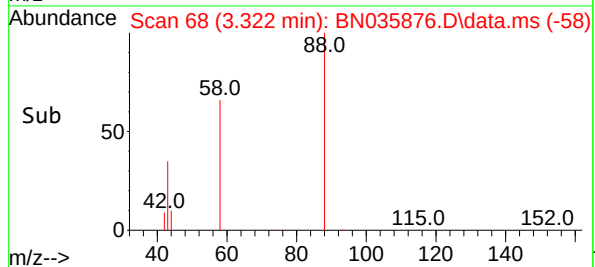
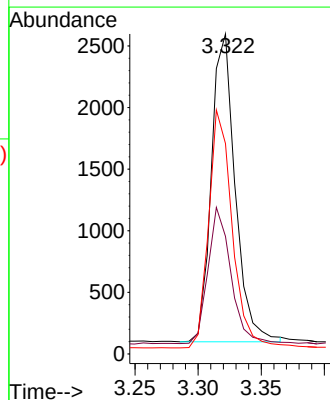
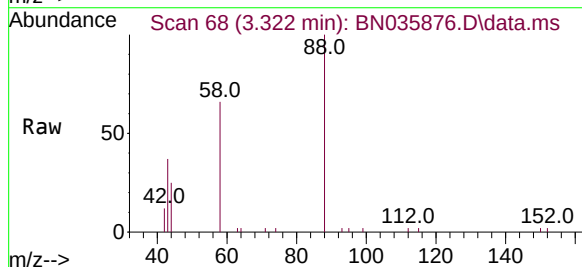
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

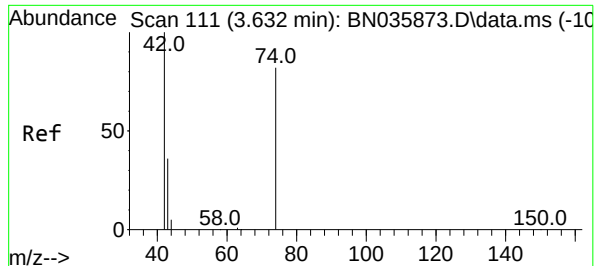
Tgt Ion: 152 Resp: 1084
Ion Ratio Lower Upper
152 100
150 152.1 117.8 176.6
115 64.4 51.0 76.4



#2
1,4-Dioxane
Concen: 3.037 ng
RT: 3.322 min Scan# 68
Delta R.T. 0.000 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion: 88 Resp: 3270
Ion Ratio Lower Upper
88 100
43 42.6 32.7 49.1
58 76.5 63.0 94.4

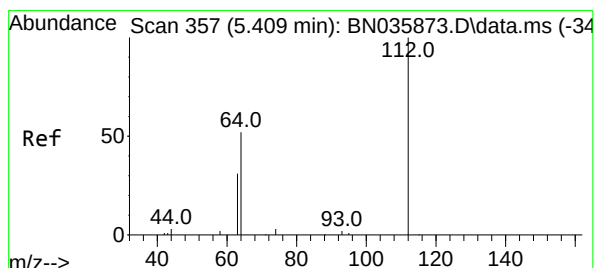
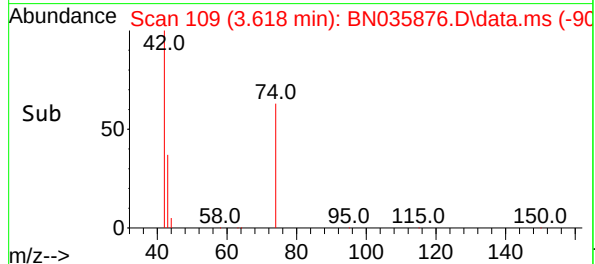
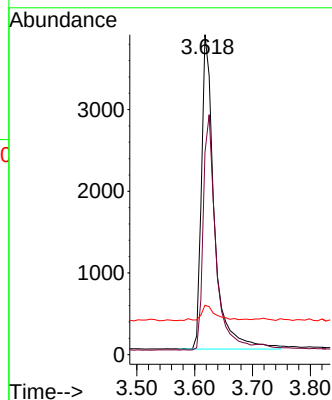
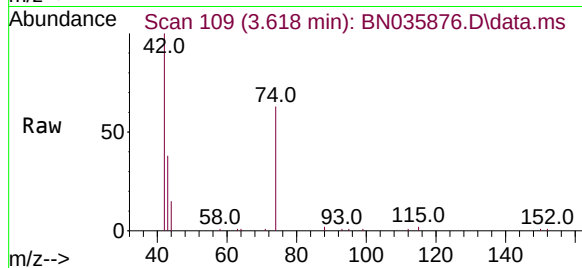




#3
n-Nitrosodimethylamine
Concen: 3.186 ng
RT: 3.618 min Scan# 109
Delta R.T. -0.014 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

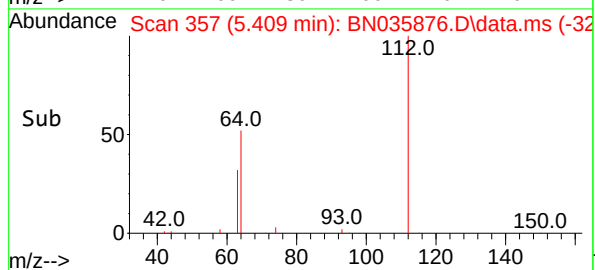
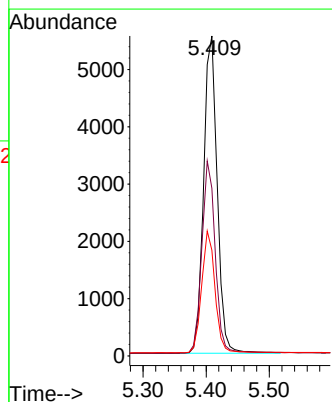
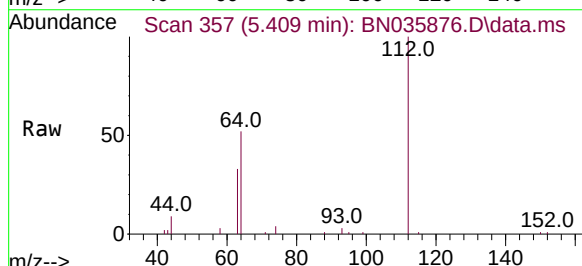
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

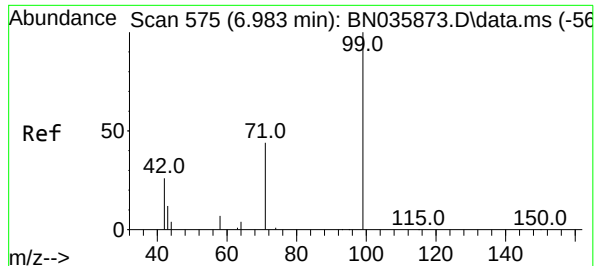
Tgt Ion: 42 Resp: 5985
Ion Ratio Lower Upper
42 100
74 73.7 62.2 93.2
44 5.7 7.1 10.7#



#4
2-Fluorophenol
Concen: 3.118 ng
RT: 5.409 min Scan# 357
Delta R.T. 0.000 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion: 112 Resp: 8292
Ion Ratio Lower Upper
112 100
64 60.1 48.2 72.2
63 38.0 30.0 45.0

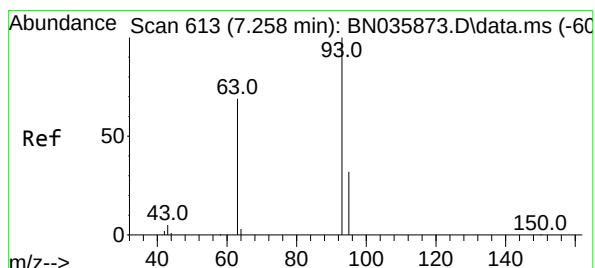
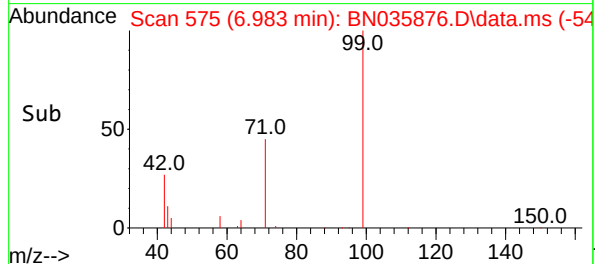
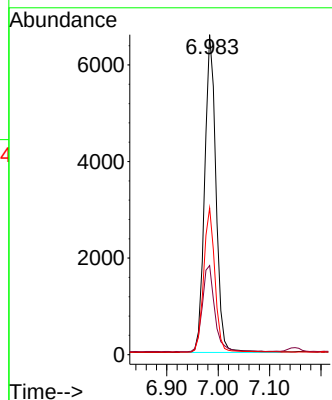
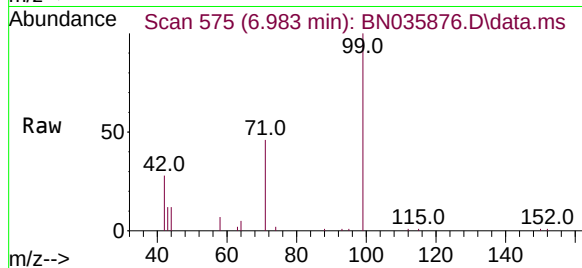




#5
Phenol-d6
Concen: 3.054 ng
RT: 6.983 min Scan# 575
Delta R.T. 0.000 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

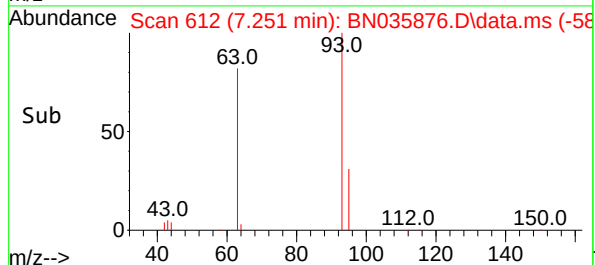
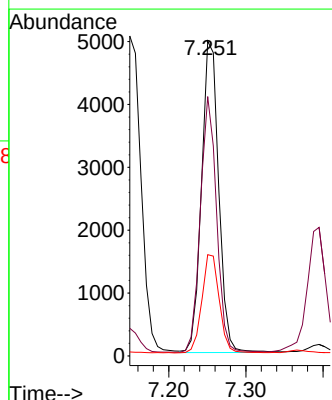
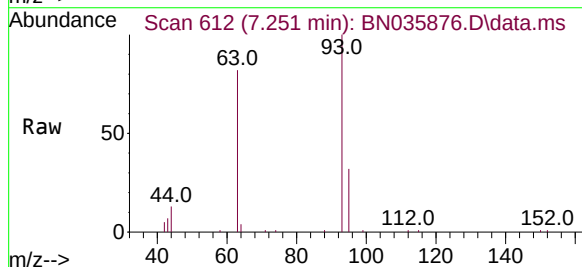
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

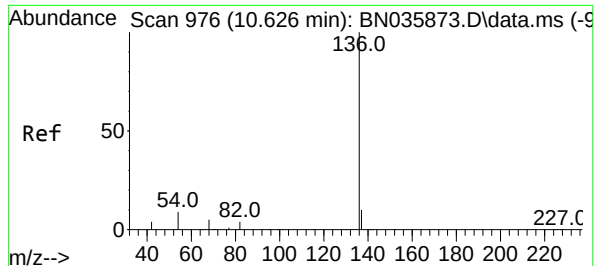
Tgt Ion: 99 Resp: 10087
Ion Ratio Lower Upper
99 100
42 30.1 23.5 35.3
71 45.6 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 3.054 ng
RT: 7.251 min Scan# 612
Delta R.T. -0.007 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion: 93 Resp: 7684
Ion Ratio Lower Upper
93 100
63 77.6 62.0 93.0
95 31.9 25.5 38.3

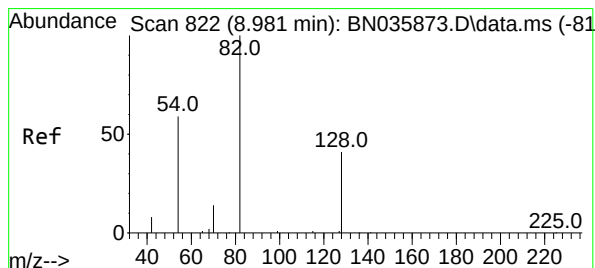
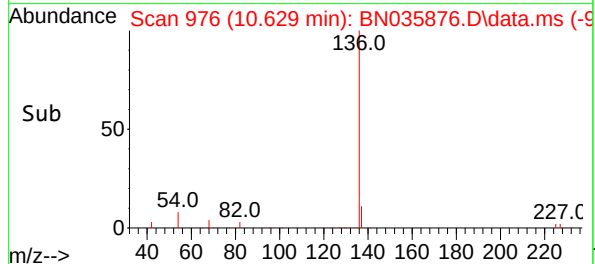
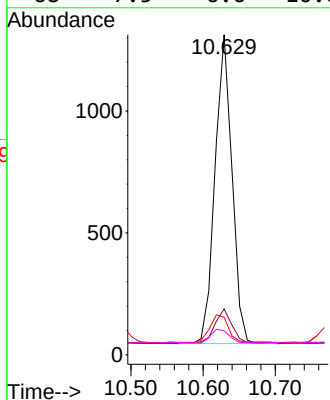
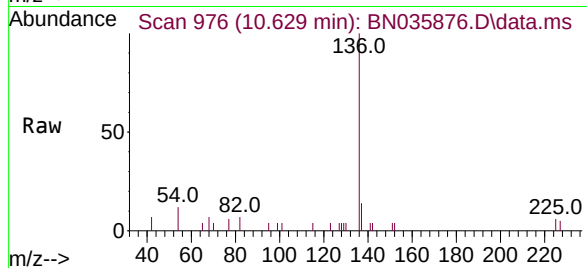




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.629 min Scan# 91
Delta R.T. 0.003 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

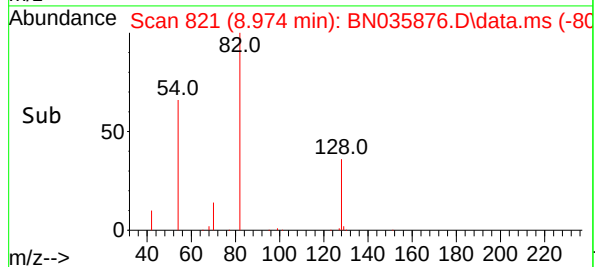
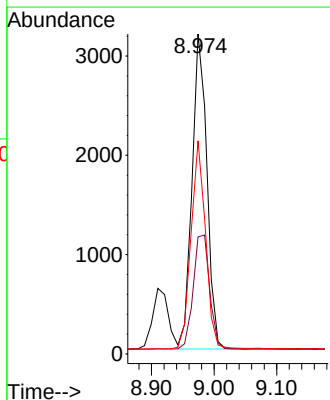
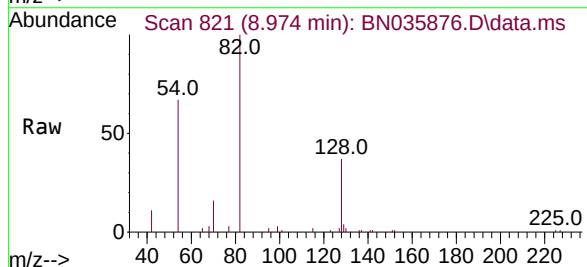
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

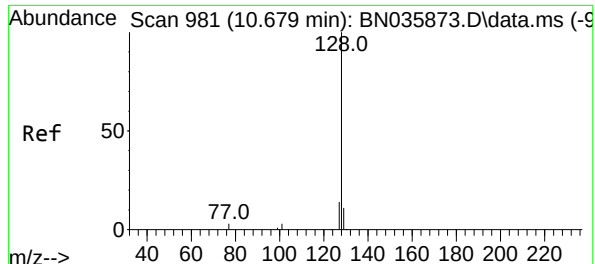
Tgt Ion:	136	Resp:	2065
Ion	Ratio	Lower	Upper
136	100		
137	14.3	10.6	15.8
54	11.7	9.8	14.6
68	7.5	6.6	10.0



#8
Nitrobenzene-d5
Concen: 3.201 ng
RT: 8.974 min Scan# 821
Delta R.T. -0.007 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:	82	Resp:	5234
Ion	Ratio	Lower	Upper
82	100		
128	36.6	36.9	55.3#
54	66.6	50.4	75.6

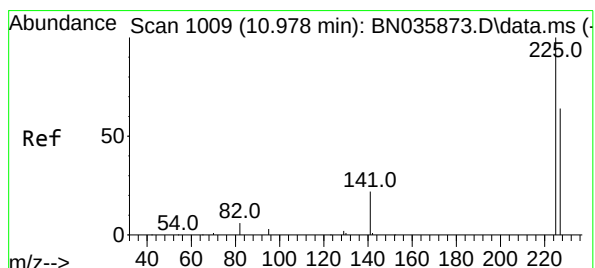
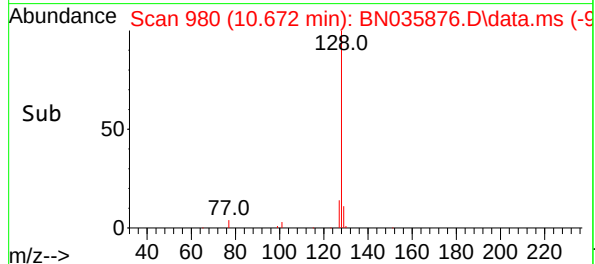
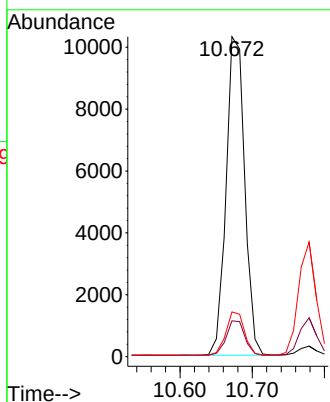
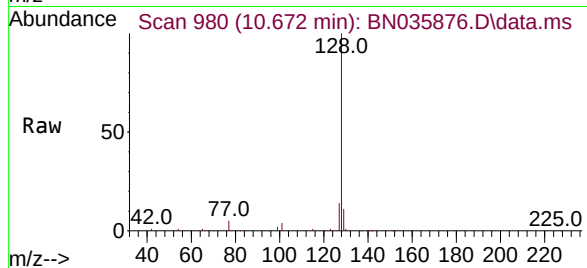




#9
Naphthalene
Concen: 3.173 ng
RT: 10.672 min Scan# 981
Delta R.T. -0.007 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

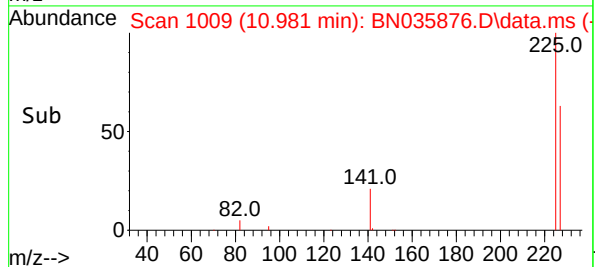
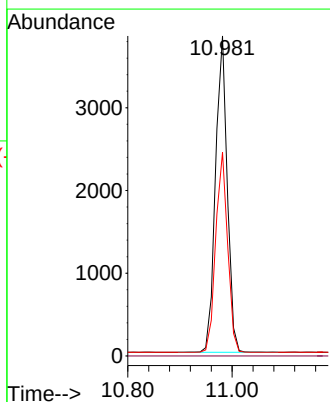
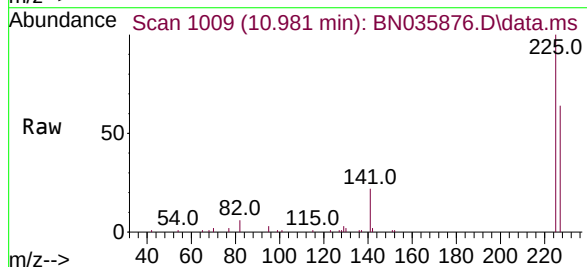
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

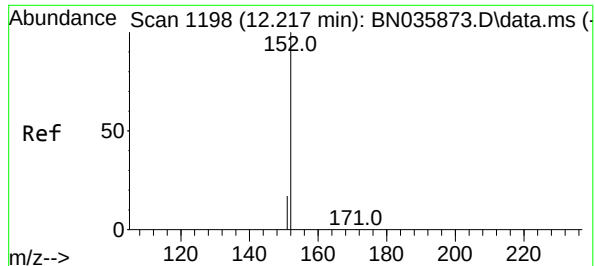
Tgt Ion:128 Resp: 18395
Ion Ratio Lower Upper
128 100
129 11.2 10.6 16.0
127 14.0 12.8 19.2



#10
Hexachlorobutadiene
Concen: 3.182 ng
RT: 10.981 min Scan# 1009
Delta R.T. 0.003 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:225 Resp: 5988
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.5 77.3

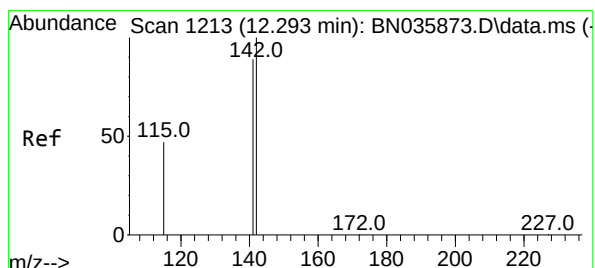
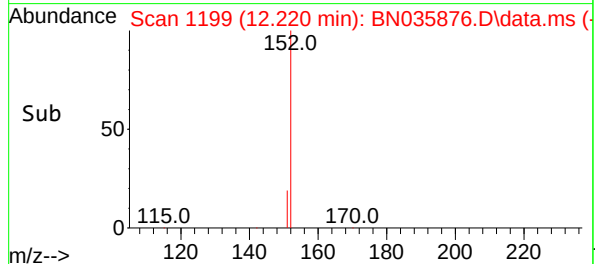
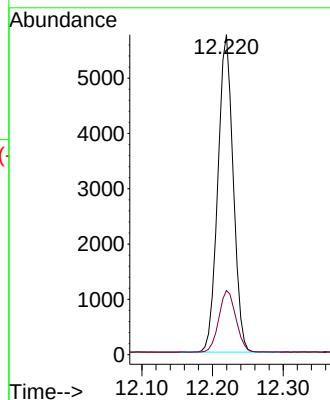
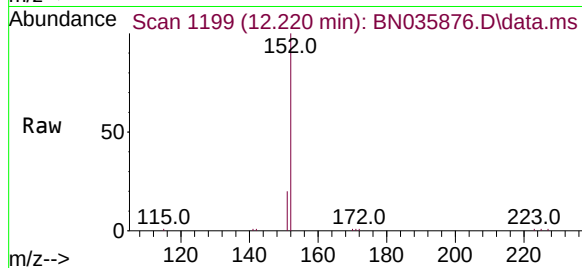




#11
2-Methylnaphthalene-d10
Concen: 3.130 ng
RT: 12.220 min Scan# 1198
Delta R.T. 0.003 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

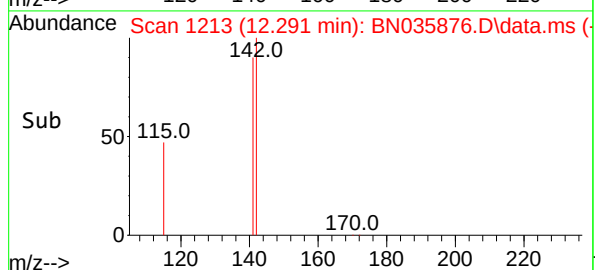
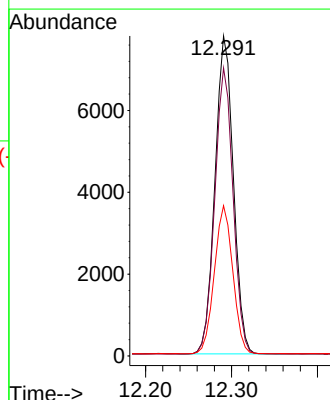
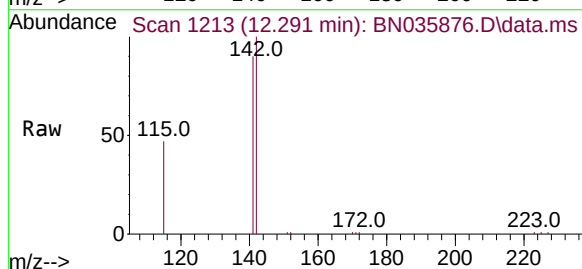
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

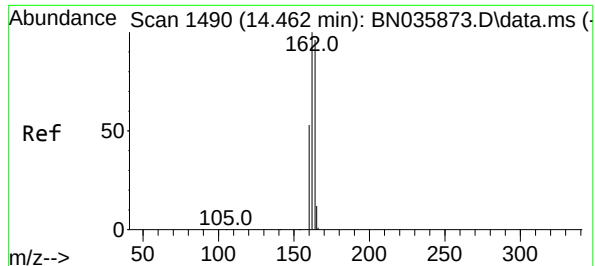
Tgt Ion:152 Resp: 8654
Ion Ratio Lower Upper
152 100
151 21.5 17.0 25.6



#12
2-Methylnaphthalene
Concen: 3.228 ng
RT: 12.291 min Scan# 1213
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:142 Resp: 11578
Ion Ratio Lower Upper
142 100
141 90.0 71.9 107.9
115 47.0 39.6 59.4

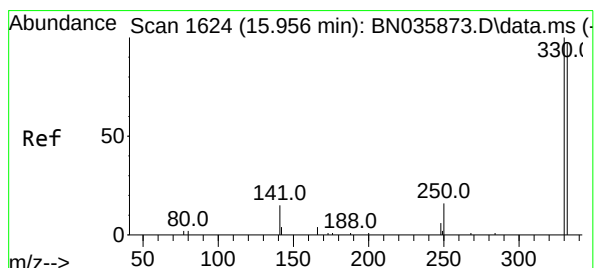
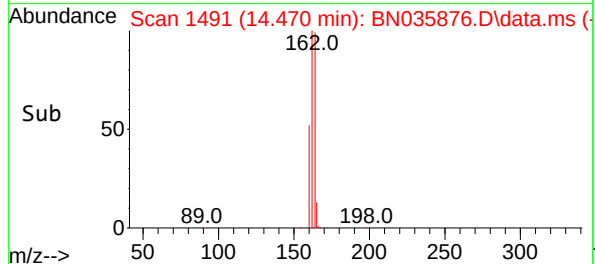
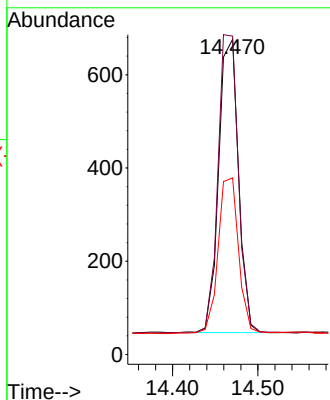
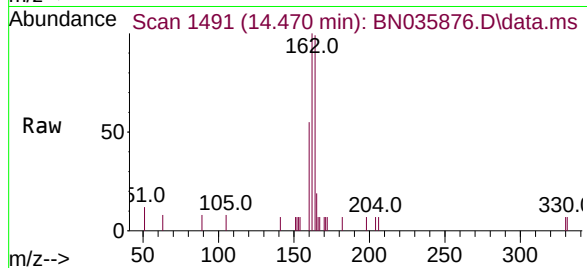




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.470 min Scan# 1490
Delta R.T. 0.009 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

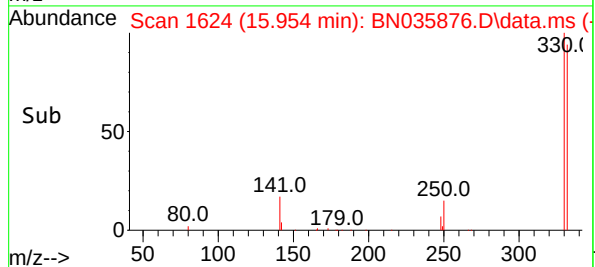
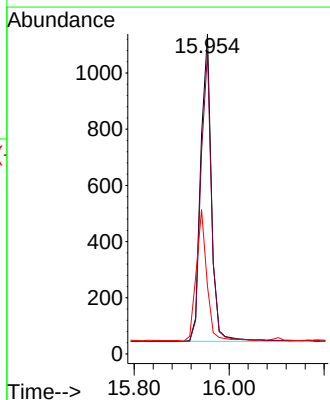
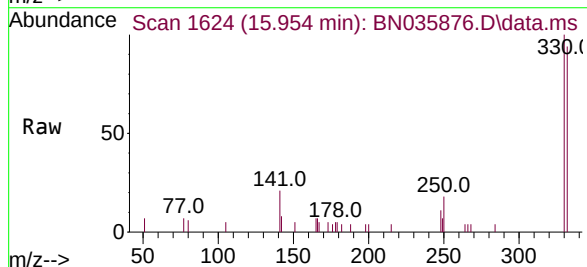
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

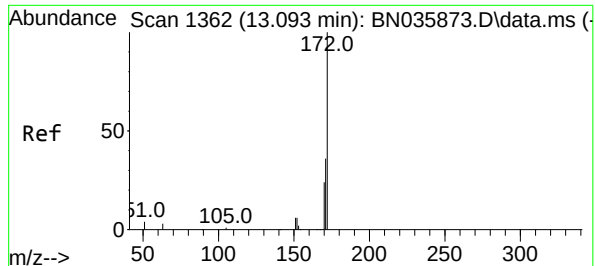
Tgt Ion:164 Resp: 1017
Ion Ratio Lower Upper
164 100
162 101.0 83.1 124.7
160 56.1 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 3.510 ng
RT: 15.954 min Scan# 1624
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:330 Resp: 1714
Ion Ratio Lower Upper
330 100
332 93.9 77.2 115.8
141 41.7 31.6 47.4

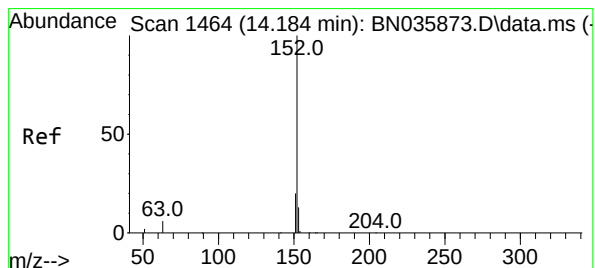
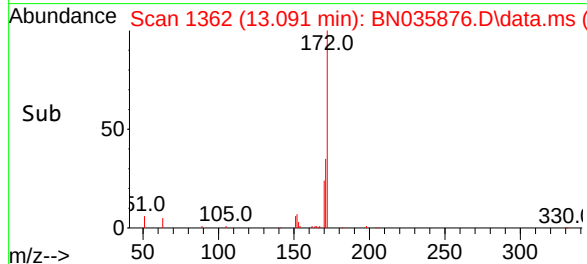
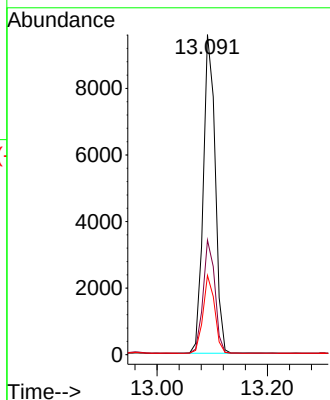
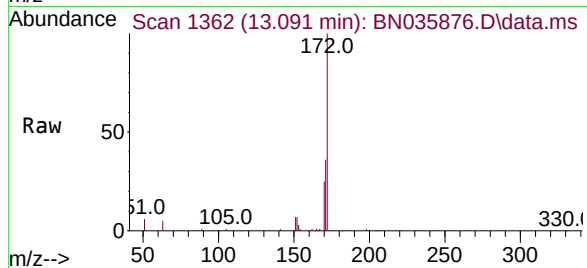




#15
2-Fluorobiphenyl
Concen: 3.243 ng
RT: 13.091 min Scan# 1362
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

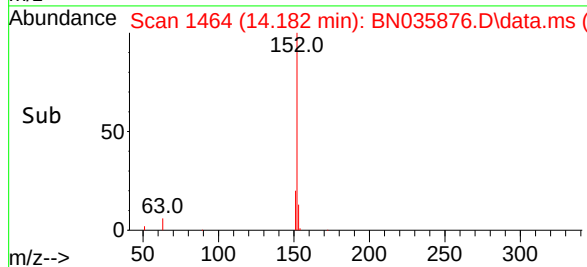
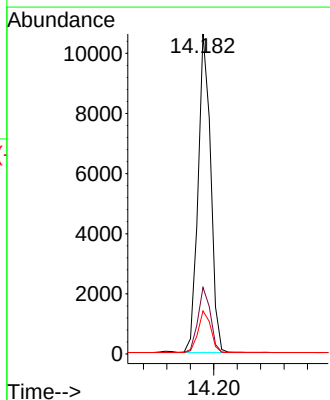
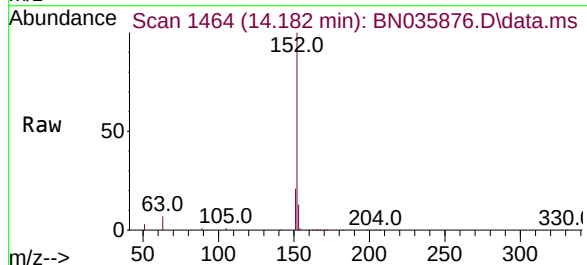
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

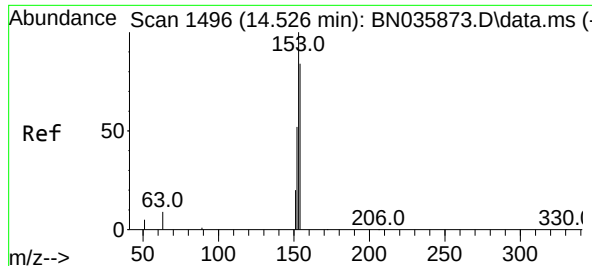
Tgt Ion:172 Resp: 14471
Ion Ratio Lower Upper
172 100
171 35.8 30.5 45.7
170 24.7 20.8 31.2



#16
Acenaphthylene
Concen: 3.309 ng
RT: 14.182 min Scan# 1464
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:152 Resp: 15847
Ion Ratio Lower Upper
152 100
151 20.3 16.3 24.5
153 13.1 10.6 15.8

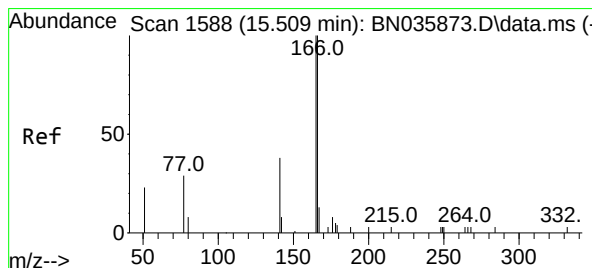
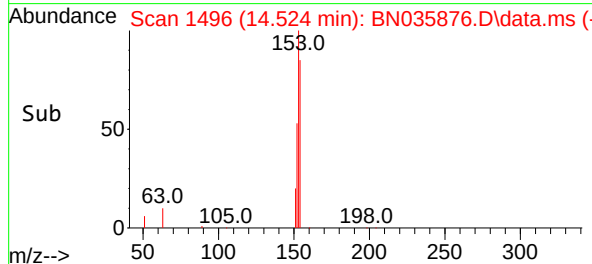
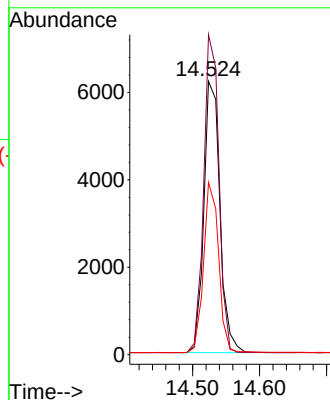
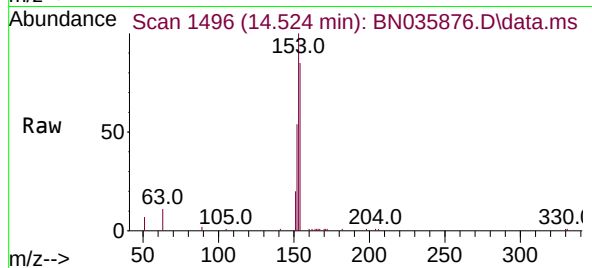




#17
Acenaphthene
Concen: 3.304 ng
RT: 14.524 min Scan# 1496
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

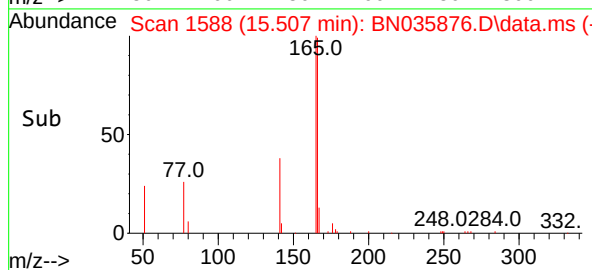
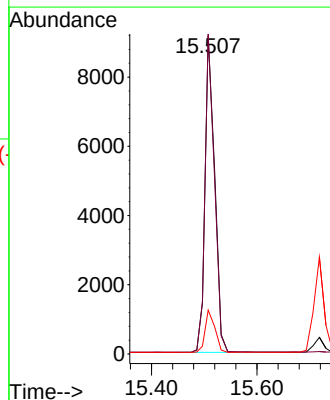
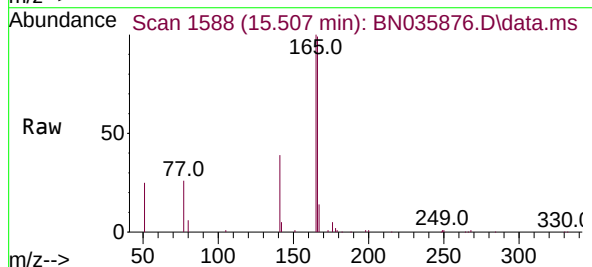
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

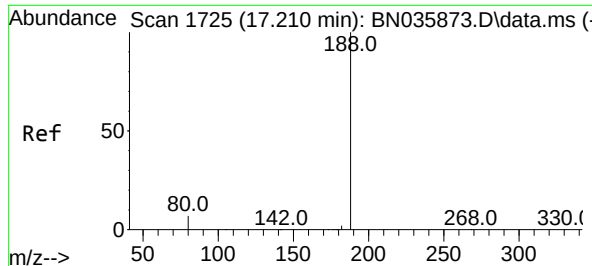
Tgt Ion:154 Resp: 10376
Ion Ratio Lower Upper
154 100
153 110.5 90.5 135.7
152 58.7 48.6 73.0



#18
Fluorene
Concen: 3.402 ng
RT: 15.507 min Scan# 1588
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:166 Resp: 11752
Ion Ratio Lower Upper
166 100
165 99.1 80.6 120.8
167 12.9 11.4 17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.208 min Scan# 11

Delta R.T. -0.002 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

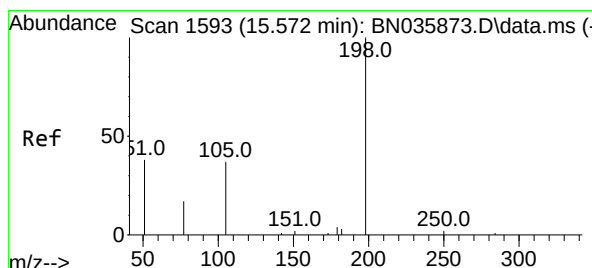
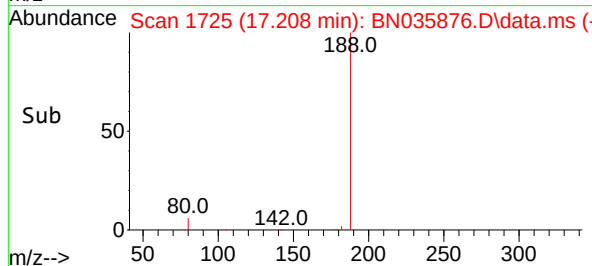
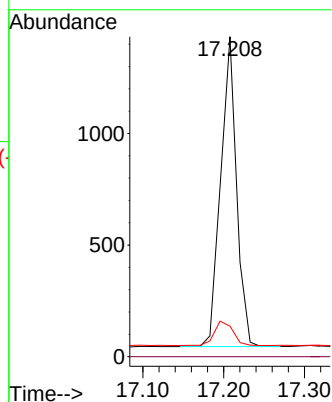
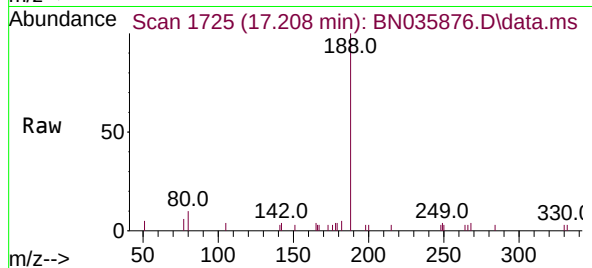
Tgt Ion:188 Resp: 1903

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.6 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 3.519 ng

RT: 15.569 min Scan# 1593

Delta R.T. -0.002 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

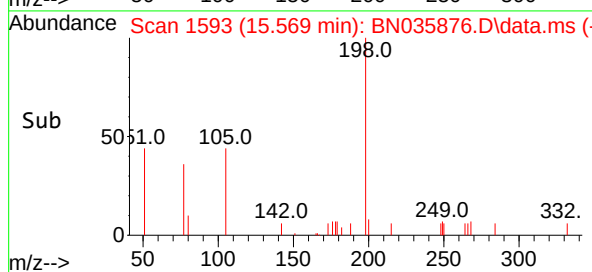
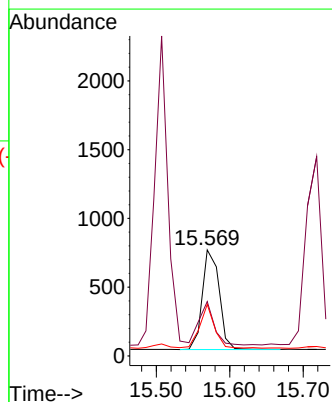
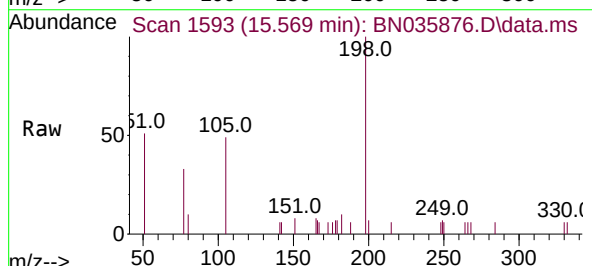
Tgt Ion:198 Resp: 1163

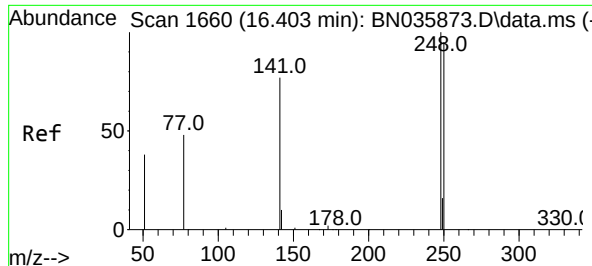
Ion Ratio Lower Upper

198 100

51 51.4 64.3 96.5#

105 48.6 50.0 75.0#

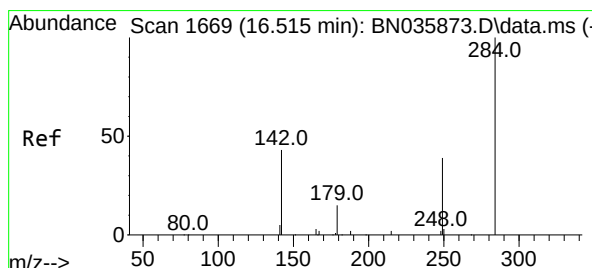
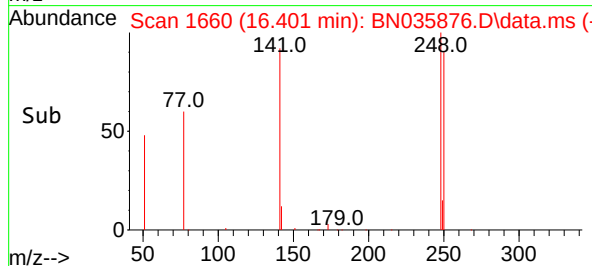
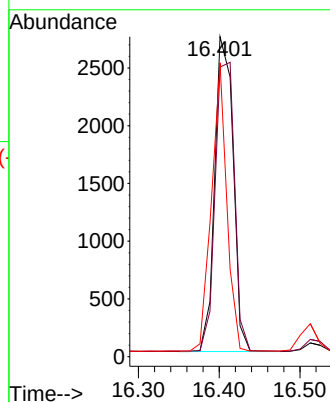
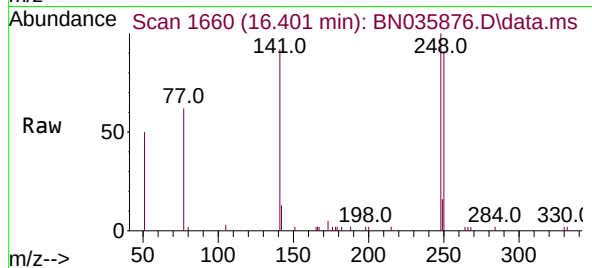




#21
4-Bromophenyl-phenylether
Concen: 3.298 ng
RT: 16.401 min Scan# 1670
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

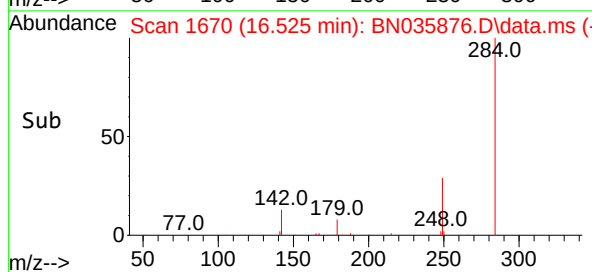
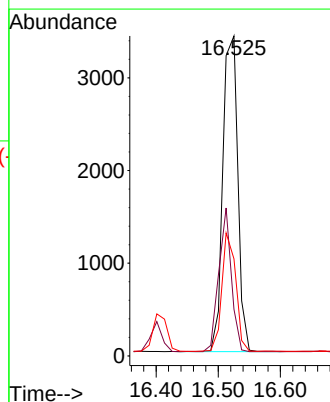
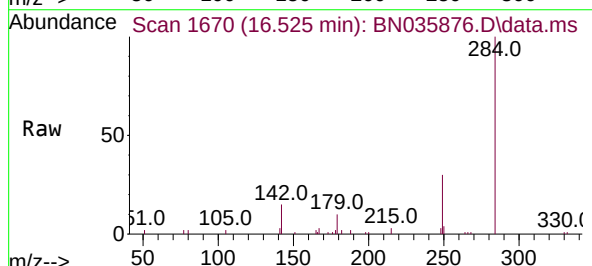
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

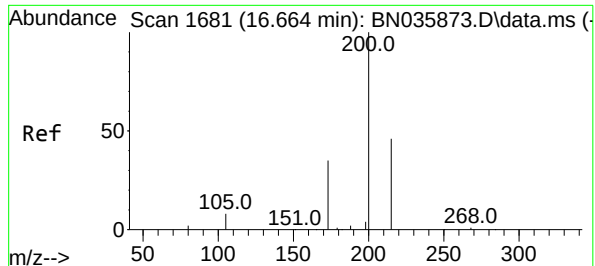
Tgt Ion	Ratio	Lower	Upper
248	100		
250	90.5	76.8	115.2
141	91.8	63.6	95.4



#22
Hexachlorobenzene
Concen: 3.188 ng
RT: 16.525 min Scan# 1670
Delta R.T. 0.010 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.4	31.4	47.0
249	34.7	27.8	41.8

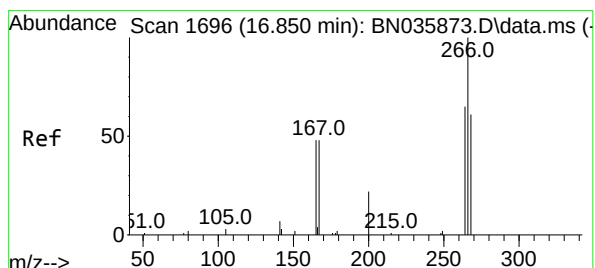
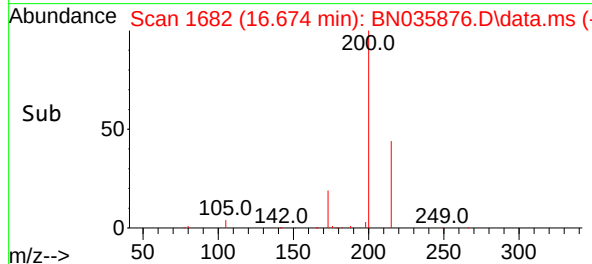
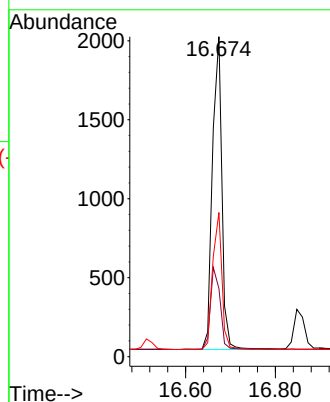
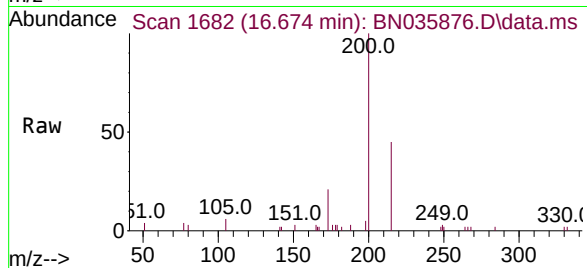




#23
Atrazine
Concen: 3.299 ng
RT: 16.674 min Scan# 1682
Delta R.T. 0.010 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

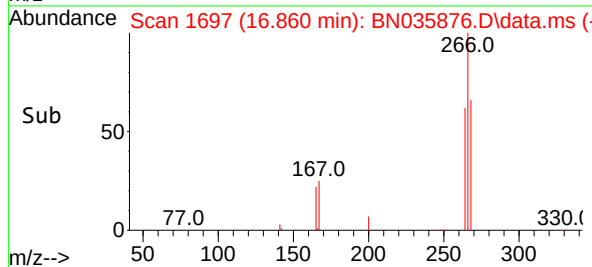
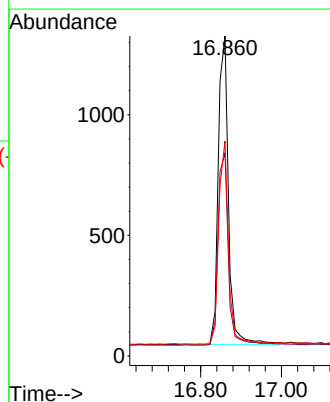
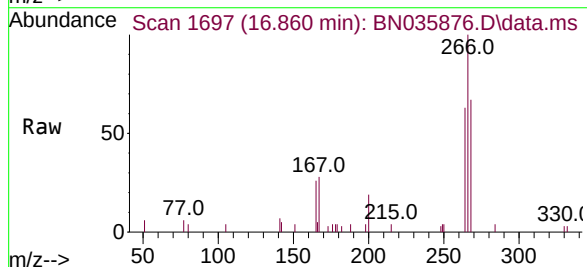
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

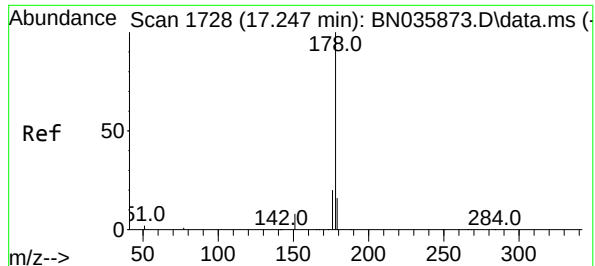
Tgt Ion:200 Resp: 2888
Ion Ratio Lower Upper
200 100
173 21.3 35.4 53.0#
215 45.1 42.4 63.6



#24
Pentachlorophenol
Concen: 3.582 ng
RT: 16.860 min Scan# 1697
Delta R.T. 0.010 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:266 Resp: 2256
Ion Ratio Lower Upper
266 100
264 62.5 49.9 74.9
268 63.4 50.2 75.2

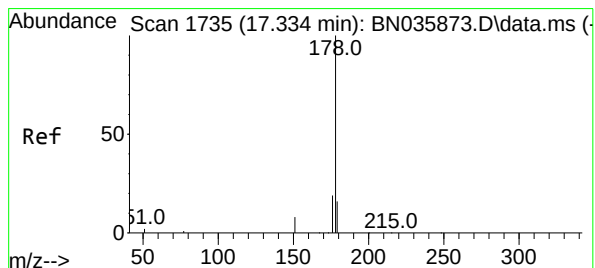
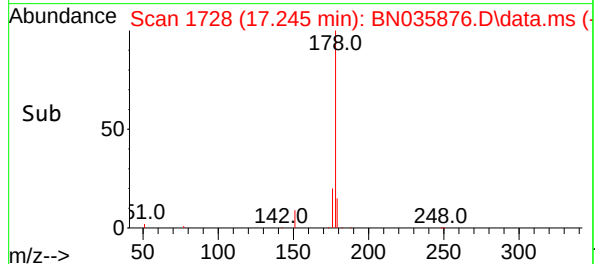
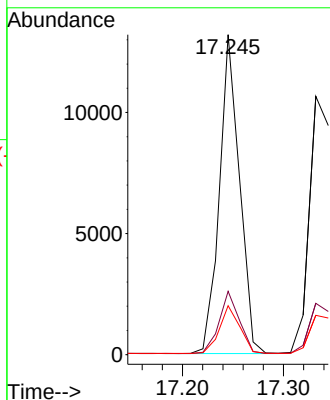
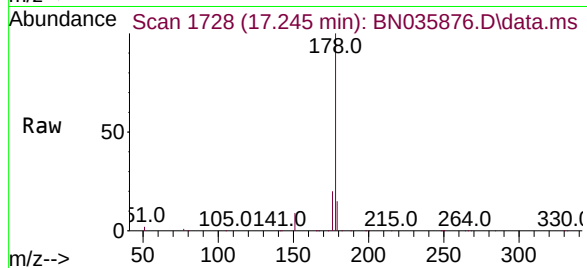




#25
Phenanthrene
Concen: 3.272 ng
RT: 17.245 min Scan# 1728
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

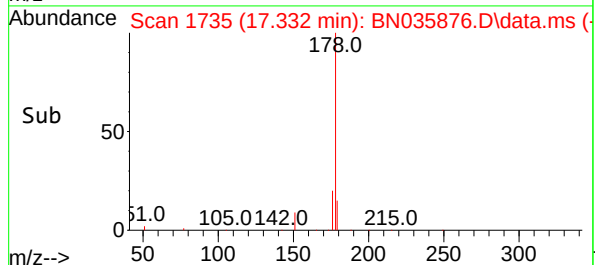
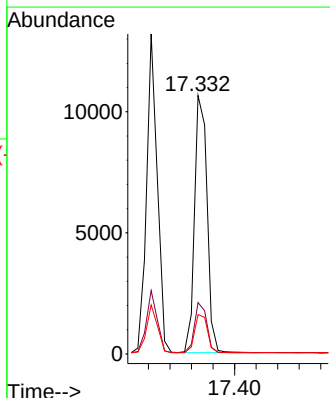
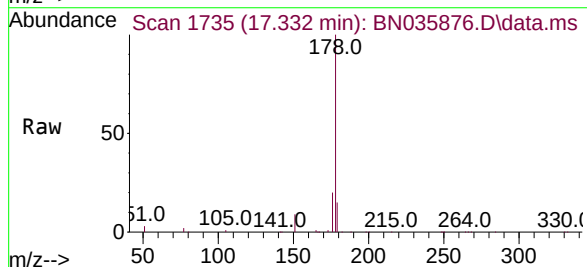
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

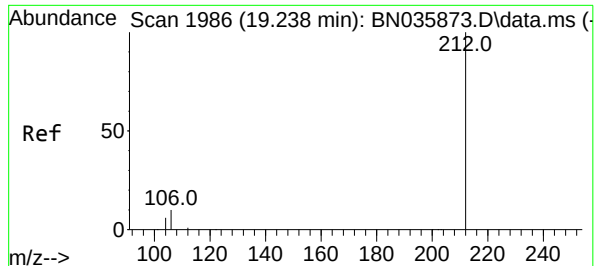
Tgt Ion:178 Resp: 18166
Ion Ratio Lower Upper
178 100
176 19.6 15.9 23.9
179 15.3 12.9 19.3



#26
Anthracene
Concen: 3.409 ng
RT: 17.332 min Scan# 1735
Delta R.T. -0.002 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:178 Resp: 17227
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.2 13.0 19.6





#27

Fluoranthene-d10

Concen: 3.255 ng

RT: 19.236 min Scan# 1986

Delta R.T. -0.002 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

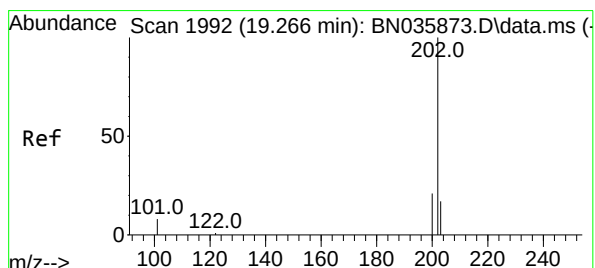
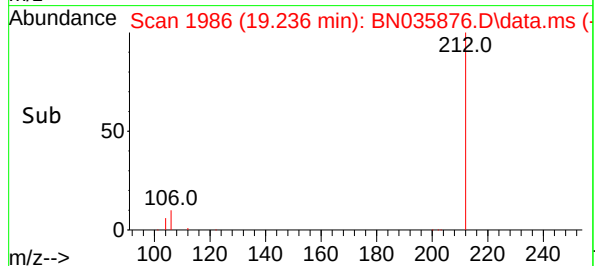
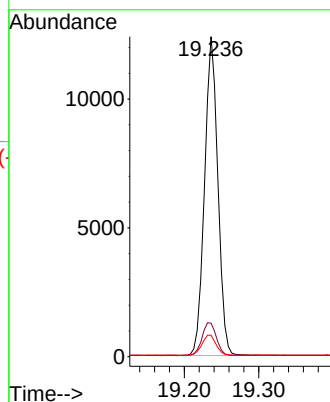
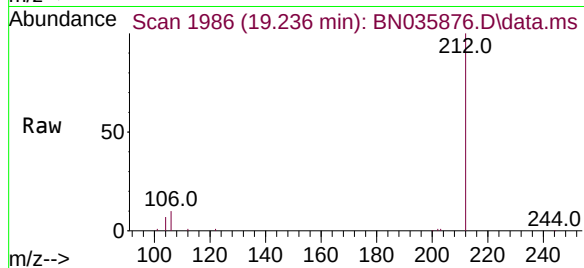
Tgt Ion:212 Resp: 15378

Ion Ratio Lower Upper

212 100

106 11.0 9.0 13.6

104 6.7 5.4 8.2



#28

Fluoranthene

Concen: 3.400 ng

RT: 19.268 min Scan# 1993

Delta R.T. 0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

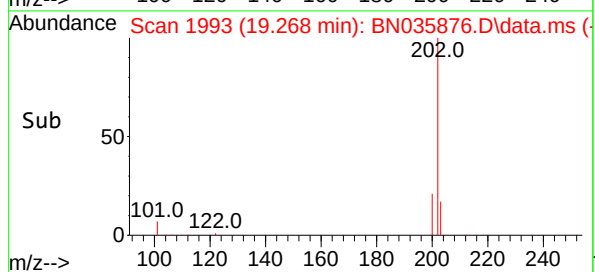
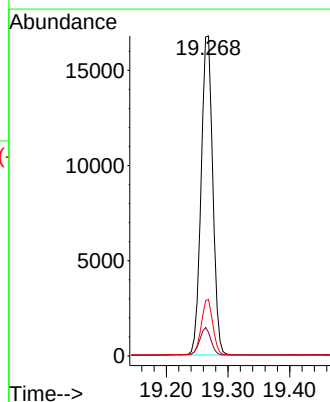
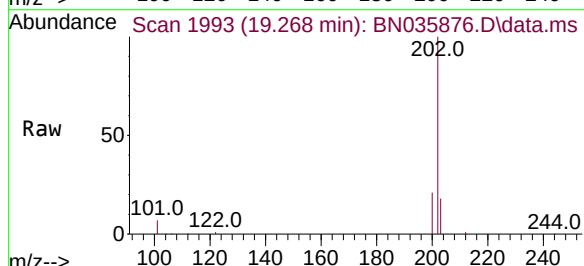
Tgt Ion:202 Resp: 22007

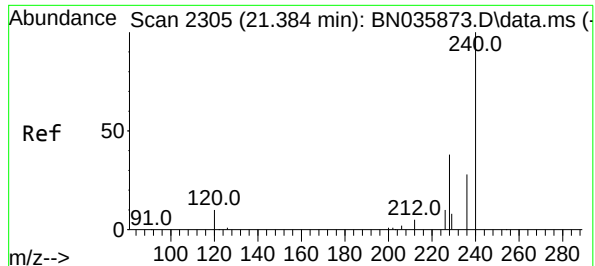
Ion Ratio Lower Upper

202 100

101 8.5 7.2 10.8

203 17.3 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.386 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

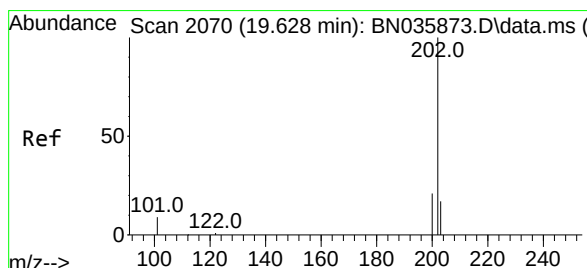
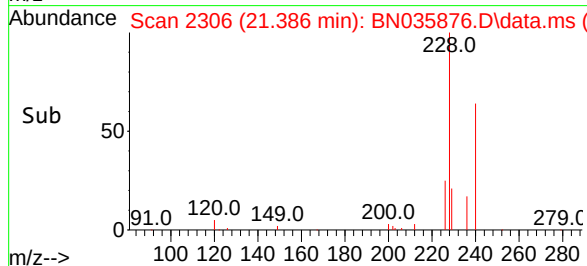
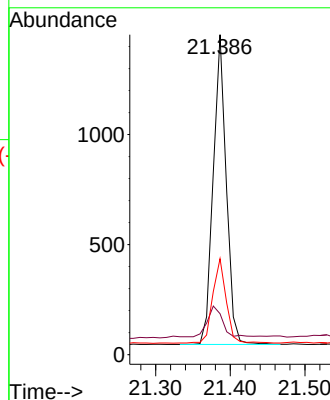
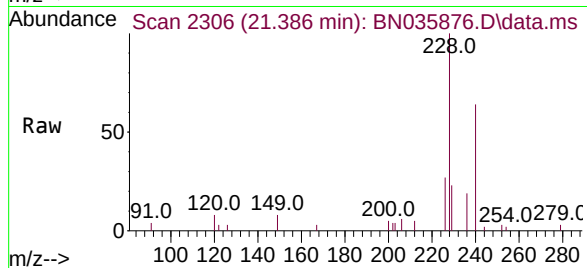
Tgt Ion:240 Resp: 1710

Ion Ratio Lower Upper

240 100

120 12.8 11.1 16.7

236 30.0 24.6 36.8



#30

Pyrene

Concen: 3.193 ng

RT: 19.626 min Scan# 2070

Delta R.T. -0.002 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

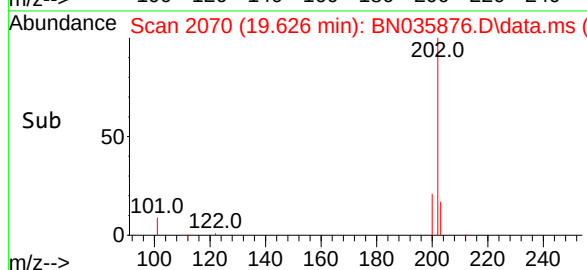
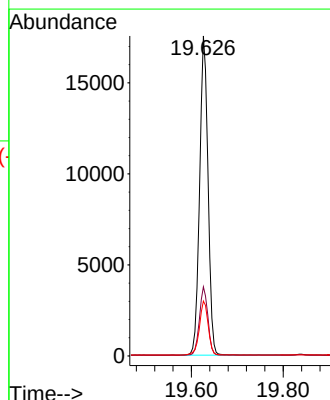
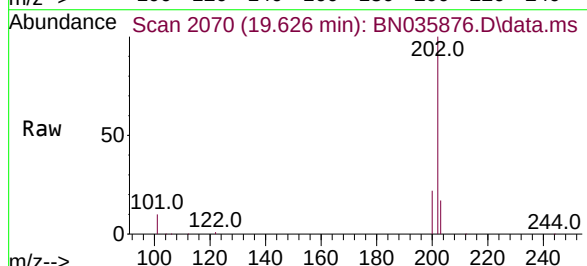
Tgt Ion:202 Resp: 22172

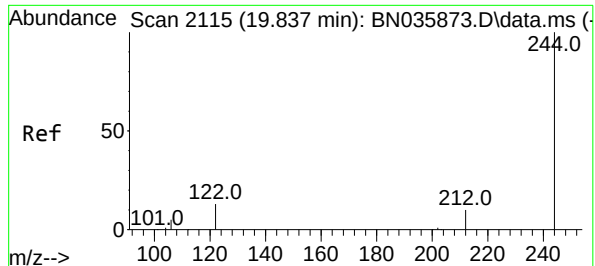
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.6 14.6 22.0

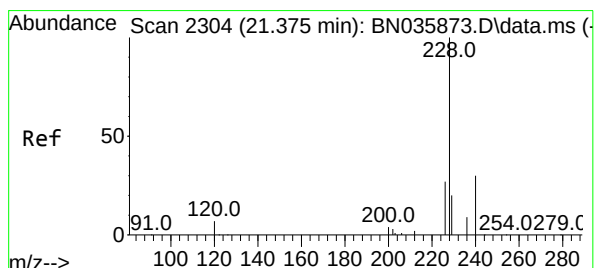
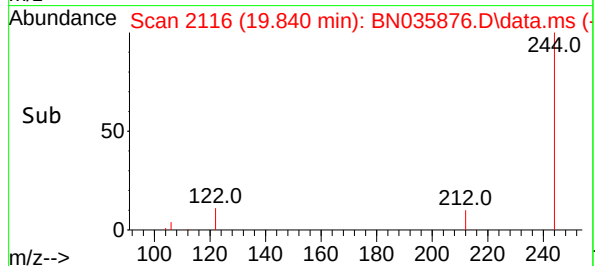
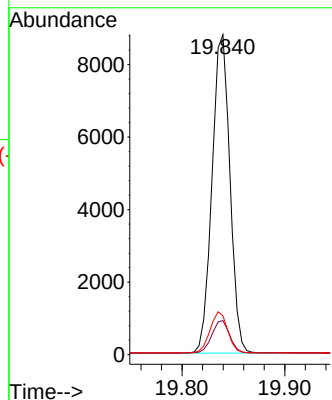
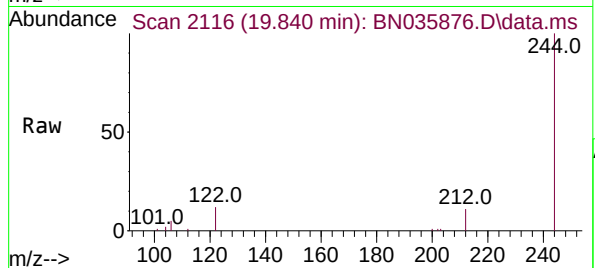




#31
Terphenyl-d14
Concen: 3.114 ng
RT: 19.840 min Scan# 2115
Delta R.T. 0.003 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

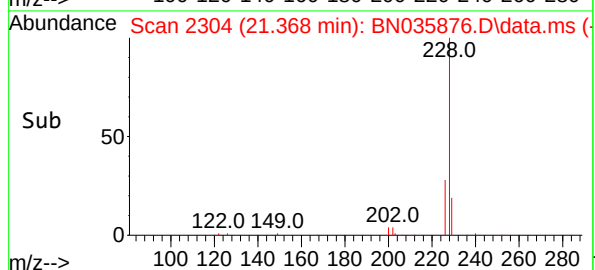
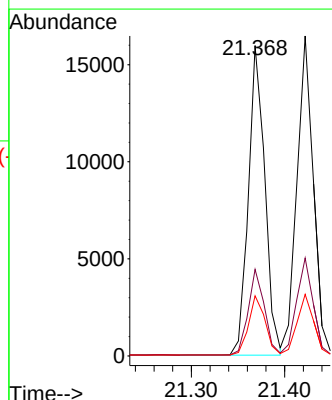
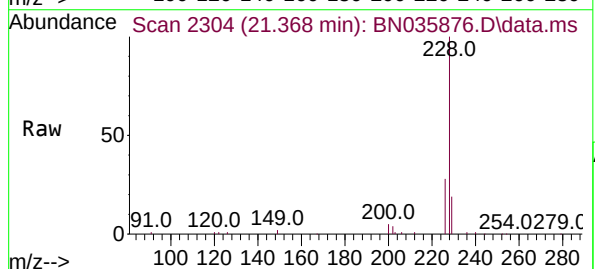
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

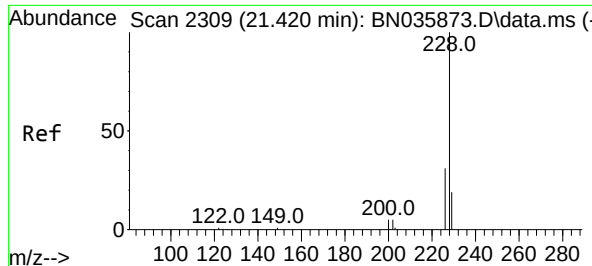
Tgt Ion:244 Resp: 10611
Ion Ratio Lower Upper
244 100
212 10.7 10.1 15.1
122 12.1 12.2 18.4#



#32
Benzo(a)anthracene
Concen: 3.240 ng
RT: 21.368 min Scan# 2304
Delta R.T. -0.006 min
Lab File: BN035876.D
Acq: 02 Jan 2025 14:28

Tgt Ion:228 Resp: 19527
Ion Ratio Lower Upper
228 100
226 27.9 22.7 34.1
229 19.4 17.1 25.7





#33

Chrysene

Concen: 3.207 ng

RT: 21.422 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

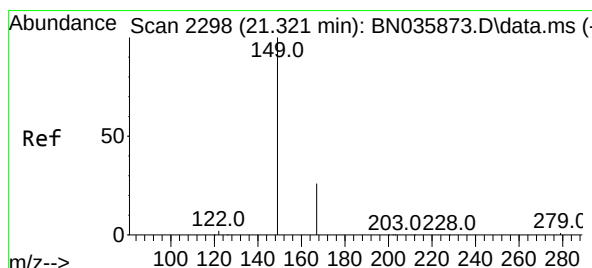
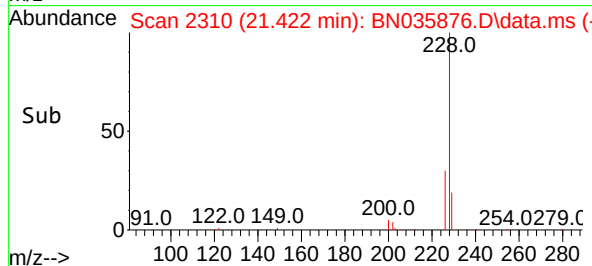
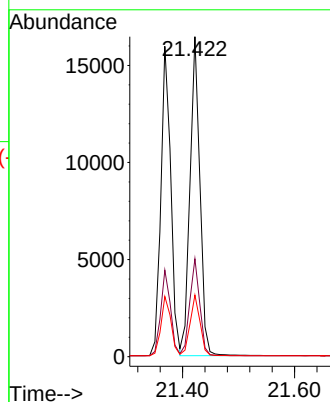
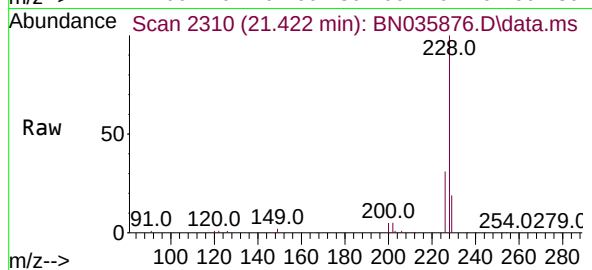
Tgt Ion:228 Resp: 20218

Ion Ratio Lower Upper

228 100

226 30.6 25.2 37.8

229 19.3 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.894 ng

RT: 21.324 min Scan# 2299

Delta R.T. 0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

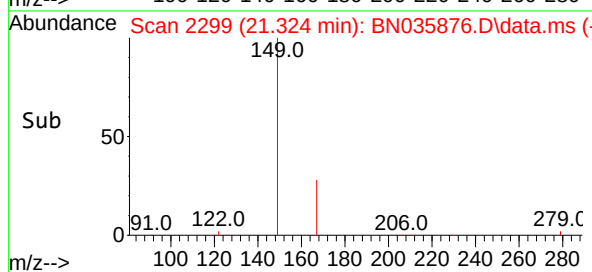
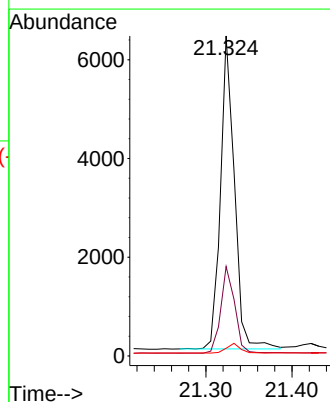
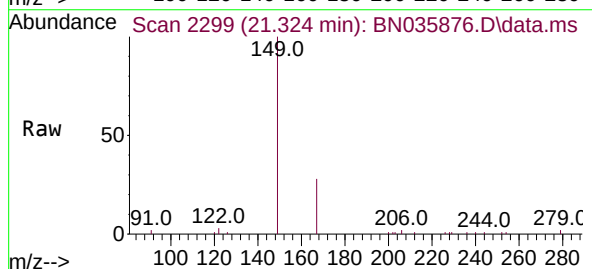
Tgt Ion:149 Resp: 7099

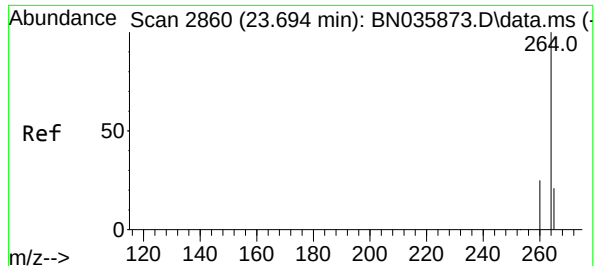
Ion Ratio Lower Upper

149 100

167 27.8 21.4 32.0

279 2.9 3.0 4.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.691 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

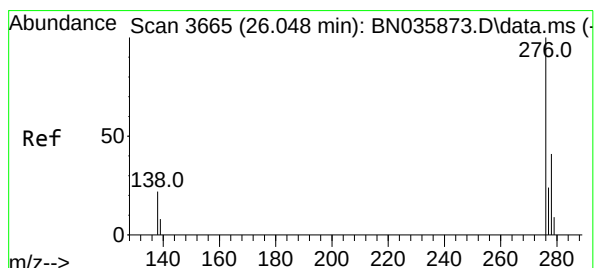
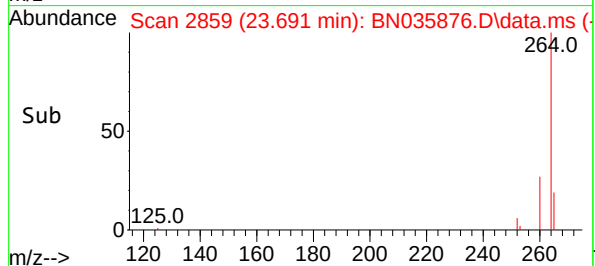
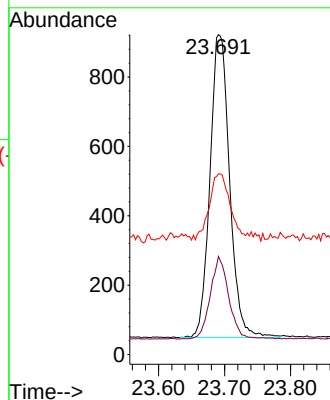
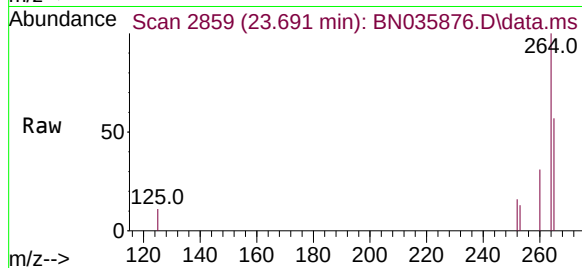
Tgt Ion:264 Resp: 1808

Ion Ratio Lower Upper

264 100

260 30.7 21.7 32.5

265 56.5 33.9 50.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.474 ng

RT: 26.050 min Scan# 3666

Delta R.T. 0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

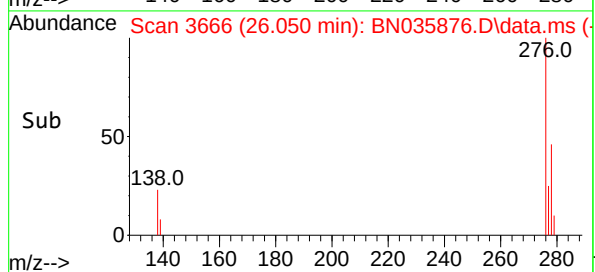
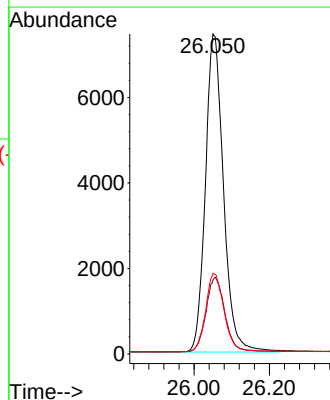
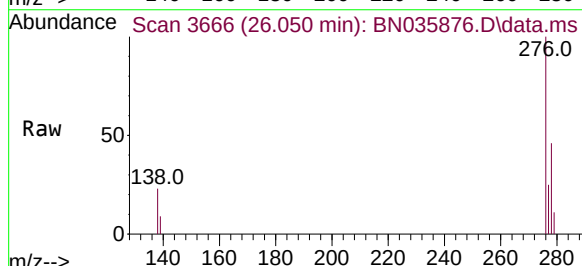
Tgt Ion:276 Resp: 24767

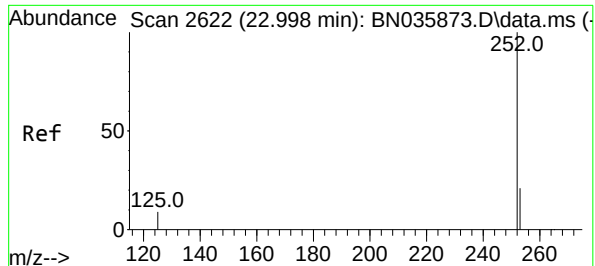
Ion Ratio Lower Upper

276 100

138 24.1 18.9 28.3

277 25.1 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 3.305 ng

RT: 22.998 min Scan# 2622

Delta R.T. -0.000 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

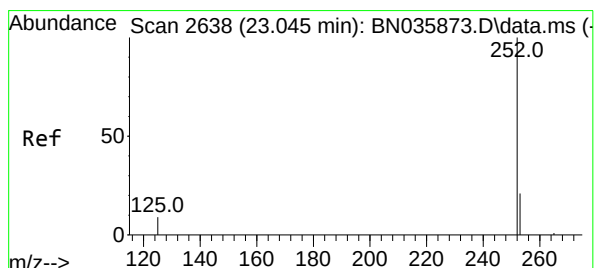
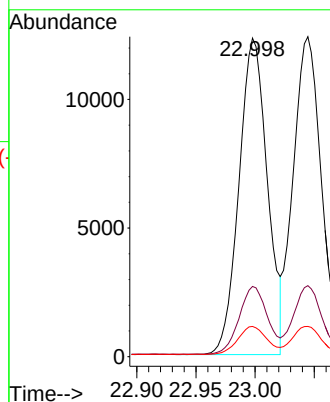
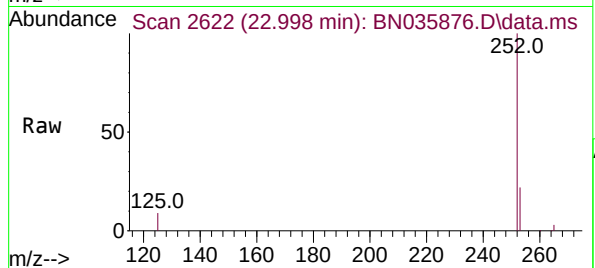
Tgt Ion:252 Resp: 20532

Ion Ratio Lower Upper

252 100

253 22.0 20.1 30.1

125 9.5 9.9 14.9#



#38

Benzo(k)fluoranthene

Concen: 3.392 ng

RT: 23.045 min Scan# 2638

Delta R.T. -0.000 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

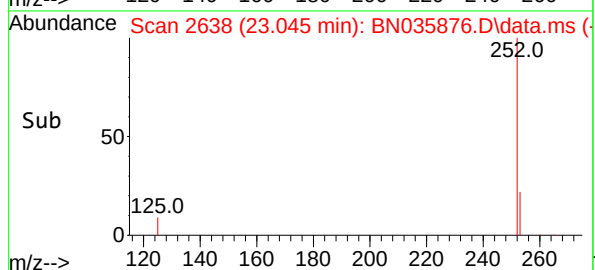
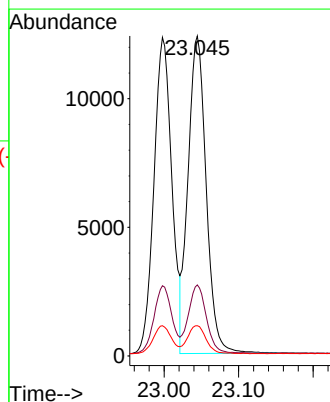
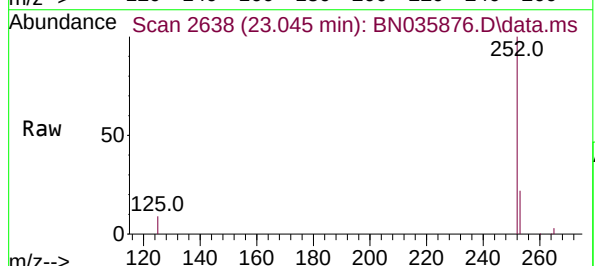
Tgt Ion:252 Resp: 20853

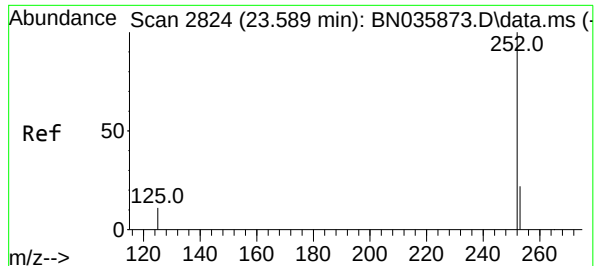
Ion Ratio Lower Upper

252 100

253 22.2 20.5 30.7

125 9.5 10.6 16.0#





#39

Benzo(a)pyrene

Concen: 3.347 ng

RT: 23.591 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

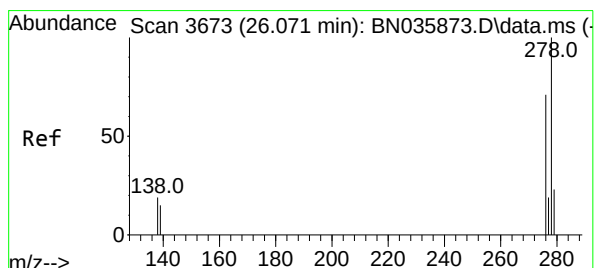
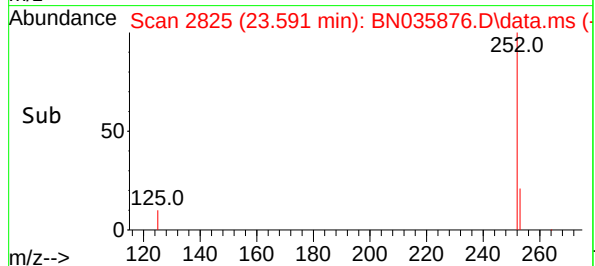
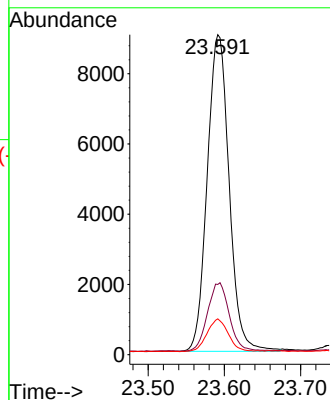
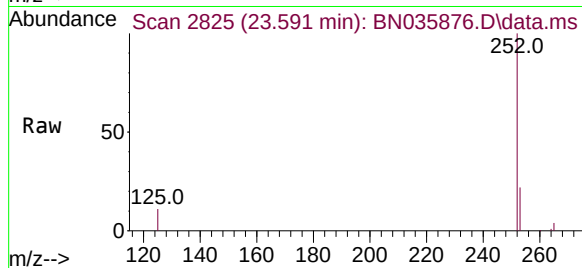
Tgt Ion:252 Resp: 17995

Ion Ratio Lower Upper

252 100

253 22.0 21.5 32.3

125 11.2 12.6 19.0#



#40

Dibenzo(a,h)anthracene

Concen: 3.480 ng

RT: 26.073 min Scan# 3674

Delta R.T. 0.003 min

Lab File: BN035876.D

Acq: 02 Jan 2025 14:28

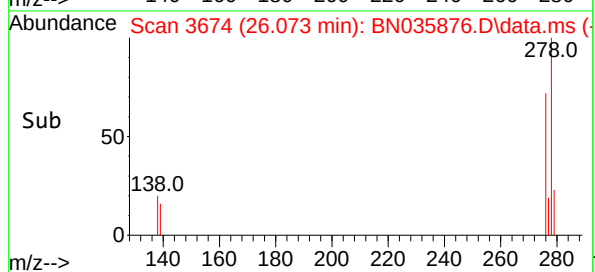
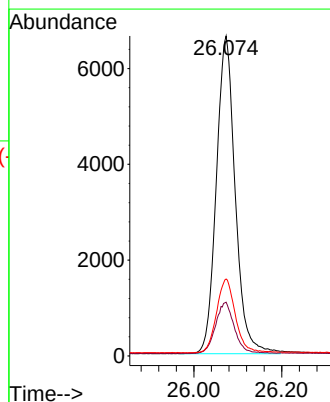
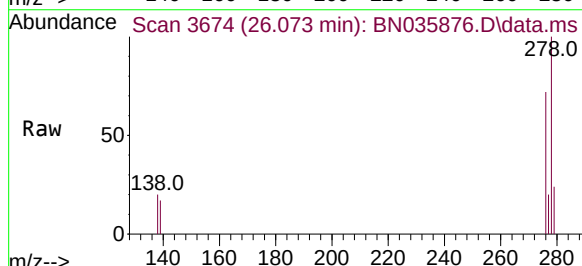
Tgt Ion:278 Resp: 19738

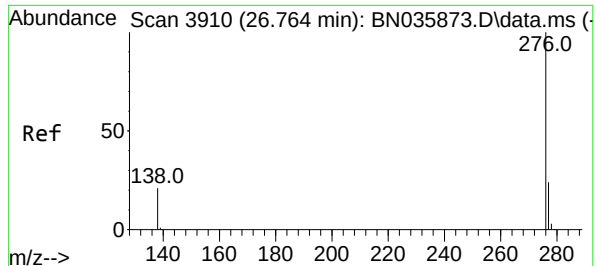
Ion Ratio Lower Upper

278 100

139 16.8 15.9 23.9

279 24.0 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 3.423 ng

RT: 26.766 min Scan# 3910

Delta R.T. 0.003 min

Lab File: BN035876.D

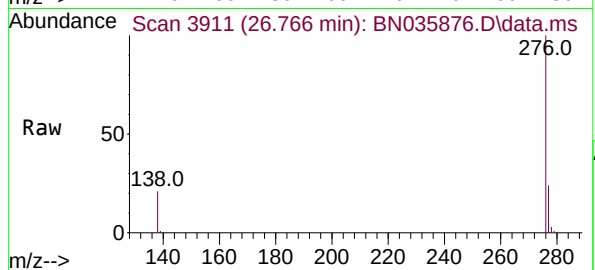
Acq: 02 Jan 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



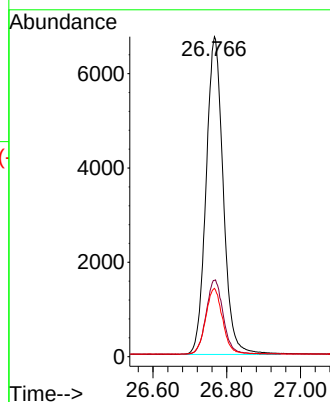
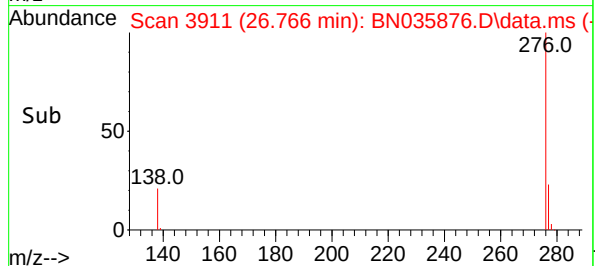
Tgt Ion:276 Resp: 21709

Ion Ratio Lower Upper

276 100

277 23.9 22.8 34.2

138 21.3 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035877.D
 Acq On : 02 Jan 2025 15:04
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Jan 02 15:51:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

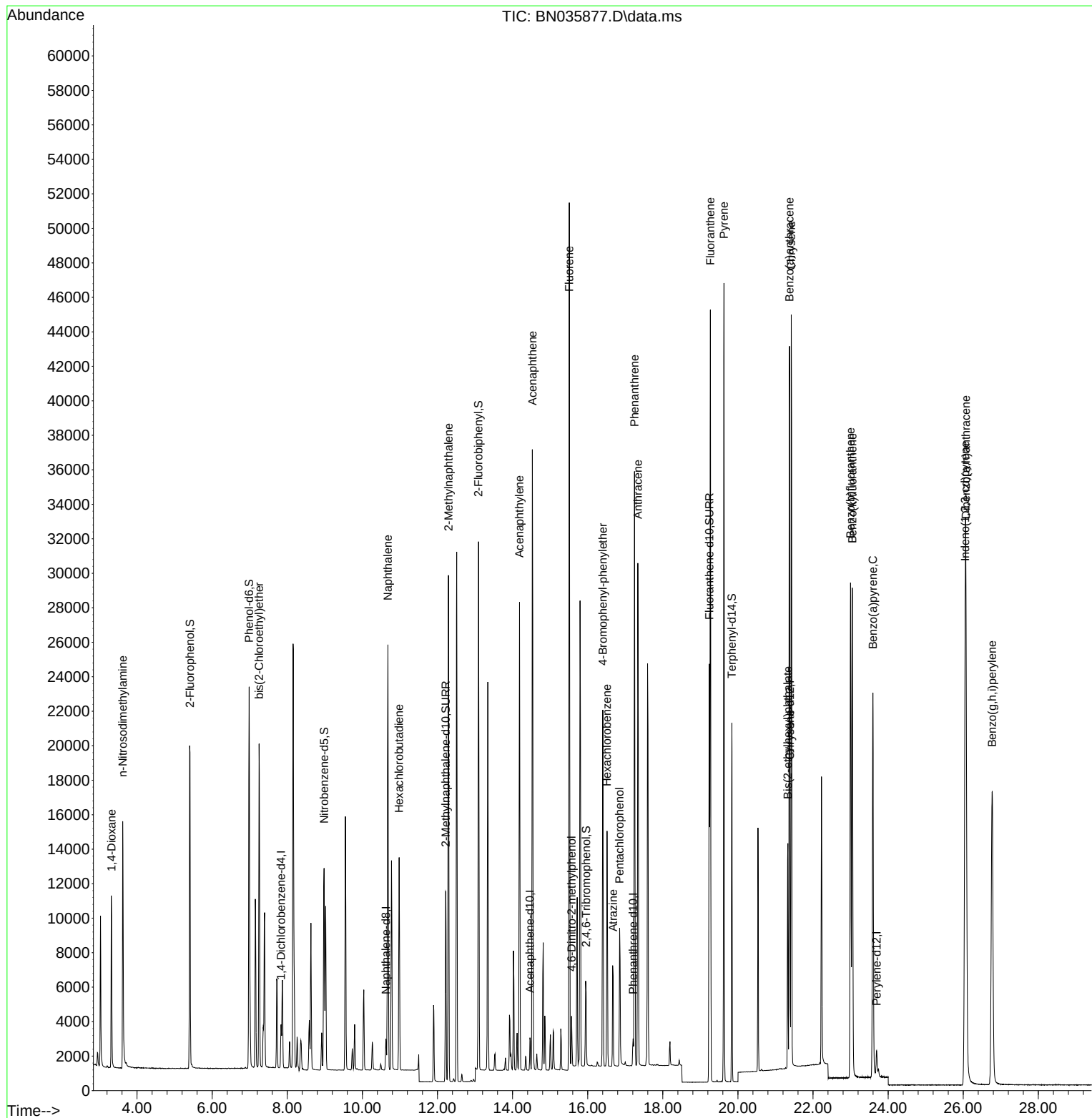
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.835	152	1152	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	2131	0.400	ng	0.00
13) Acenaphthene-d10	14.462	164	1092	0.400	ng	0.00
19) Phenanthrene-d10	17.210	188	2104	0.400	ng	0.00
29) Chrysene-d12	21.384	240	1949	0.400	ng	0.00
35) Perylene-d12	23.694	264	2023	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.409	112	13943	4.933	ng	0.00
5) Phenol-d6	6.983	99	16841	4.798	ng	0.00
8) Nitrobenzene-d5	8.981	82	8790	5.209	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	14382	5.041	ng	0.00
14) 2,4,6-Tribromophenol	15.956	330	3002	5.726	ng	0.00
15) 2-Fluorobiphenyl	13.093	172	24046	5.018	ng	0.00
27) Fluoranthene-d10	19.238	212	27229	5.214	ng	0.00
31) Terphenyl-d14	19.837	244	19033	4.901	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.322	88	5423	4.740	ng	98
3) n-Nitrosodimethylamine	3.618	42	9967	4.993	ng	# 97
6) bis(2-Chloroethyl)ether	7.250	93	12664	4.736	ng	99
9) Naphthalene	10.679	128	30381	5.079	ng	95
10) Hexachlorobutadiene	10.978	225	9822	5.057	ng	# 99
12) 2-Methylnaphthalene	12.293	142	19239	5.198	ng	98
16) Acenaphthylene	14.184	152	26794	5.210	ng	100
17) Acenaphthene	14.526	154	17619	5.226	ng	96
18) Fluorene	15.509	166	19548	5.269	ng	99
20) 4,6-Dinitro-2-methylph...	15.571	198	1944	5.320	ng	# 66
21) 4-Bromophenyl-phenylether	16.403	248	7340	5.088	ng	97
22) Hexachlorobenzene	16.515	284	9749	4.956	ng	99
23) Atrazine	16.676	200	5084	5.253	ng	# 77
24) Pentachlorophenol	16.850	266	4029	5.786	ng	98
25) Phenanthrene	17.247	178	31568	5.142	ng	99
26) Anthracene	17.334	178	29722	5.320	ng	98
28) Fluoranthene	19.266	202	38787	5.420	ng	99
30) Pyrene	19.628	202	39641	5.009	ng	99
32) Benzo(a)anthracene	21.375	228	35712	5.199	ng	97
33) Chrysene	21.419	228	35830	4.987	ng	99
34) Bis(2-ethylhexyl)phtha...	21.330	149	12924	4.623	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.050	276	44269	5.549	ng	98
37) Benzo(b)fluoranthene	22.998	252	36590	5.265	ng	# 93
38) Benzo(k)fluoranthene	23.045	252	37476	5.447	ng	# 92
39) Benzo(a)pyrene	23.592	252	32476	5.398	ng	# 89
40) Dibenzo(a,h)anthracene	26.071	278	35448	5.585	ng	92
41) Benzo(g,h,i)perylene	26.770	276	38678	5.450	ng	92

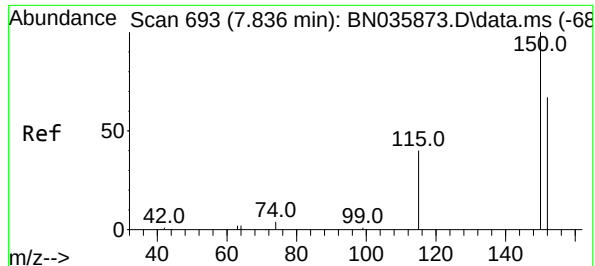
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN035877.D
Acq On : 02 Jan 2025 15:04
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jan 02 15:51:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

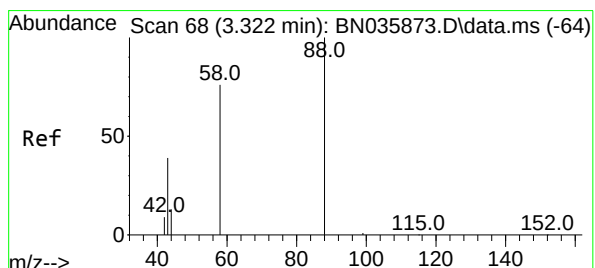
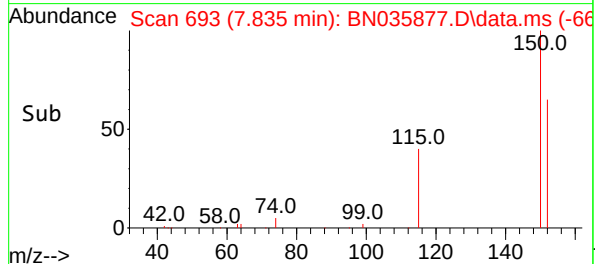
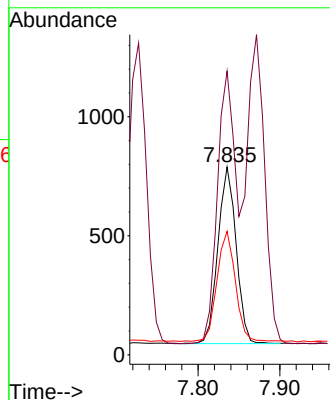
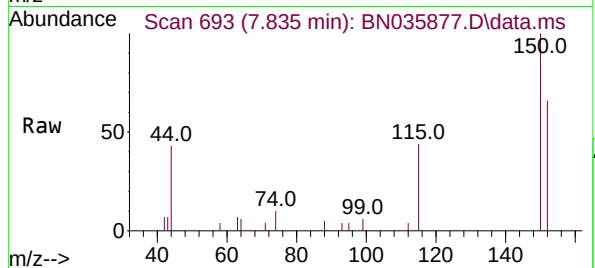




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.835 min Scan# 69
Delta R.T. -0.001 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

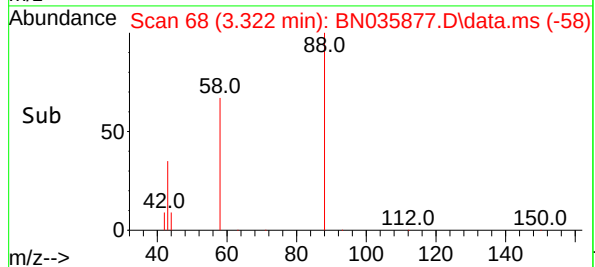
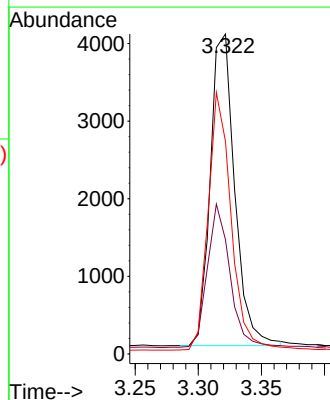
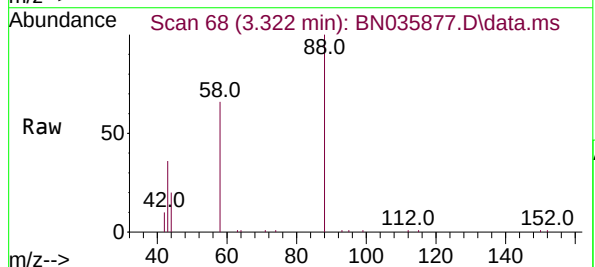
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

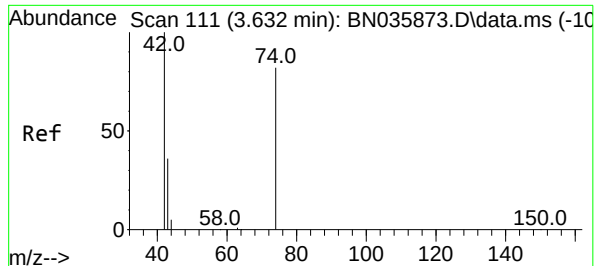
Tgt Ion:152 Resp: 1152
Ion Ratio Lower Upper
152 100
150 151.1 117.8 176.6
115 65.8 51.0 76.4



#2
1,4-Dioxane
Concen: 4.740 ng
RT: 3.322 min Scan# 68
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion: 88 Resp: 5423
Ion Ratio Lower Upper
88 100
43 42.6 32.7 49.1
58 77.3 63.0 94.4

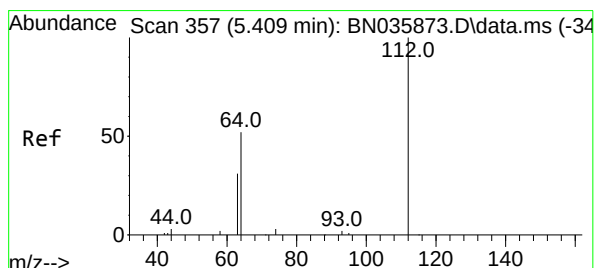
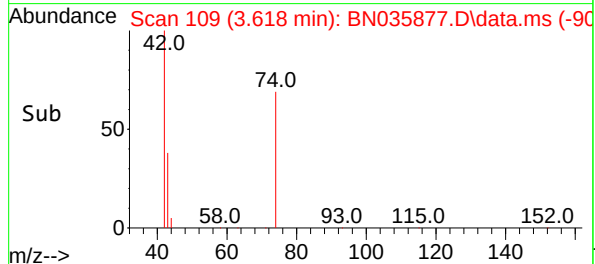
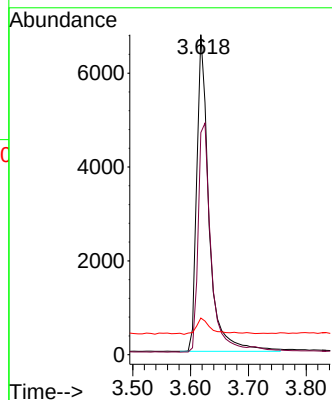
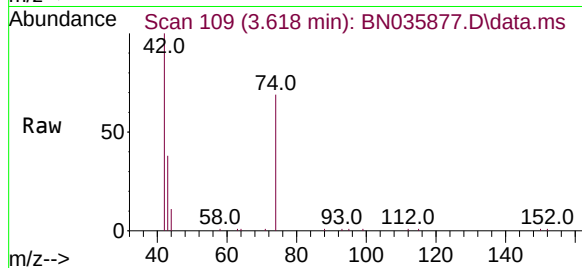




#3
n-Nitrosodimethylamine
Concen: 4.993 ng
RT: 3.618 min Scan# 109
Delta R.T. -0.015 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

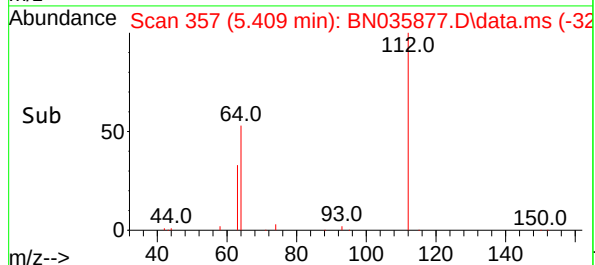
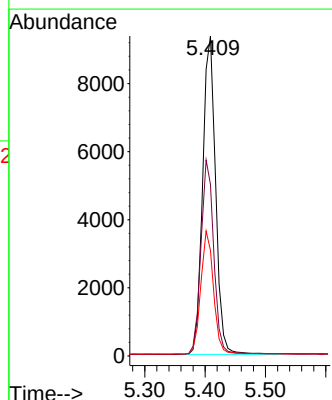
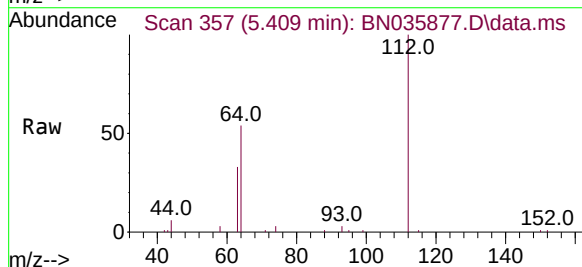
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

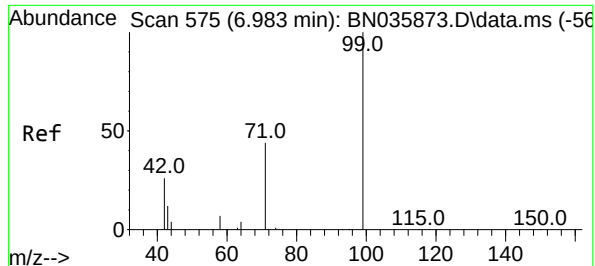
Tgt Ion: 42 Resp: 9967
Ion Ratio Lower Upper
42 100
74 75.3 62.2 93.2
44 5.7 7.1 10.7#



#4
2-Fluorophenol
Concen: 4.933 ng
RT: 5.409 min Scan# 357
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion: 112 Resp: 13943
Ion Ratio Lower Upper
112 100
64 61.0 48.2 72.2
63 38.4 30.0 45.0

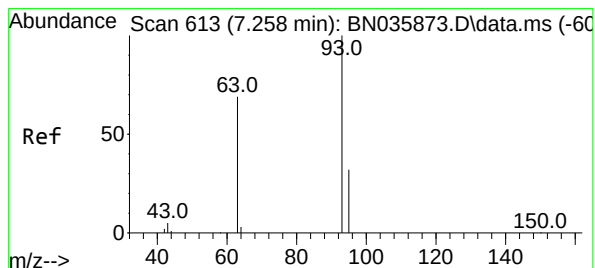
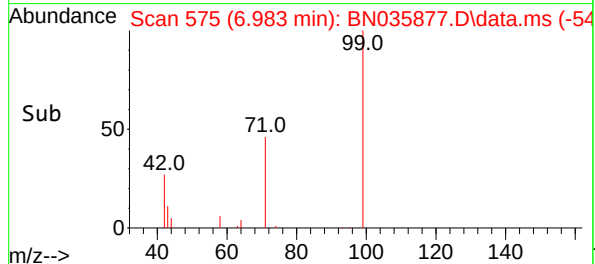
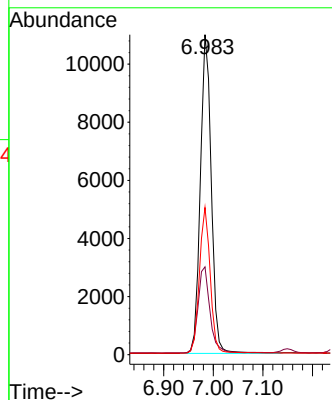
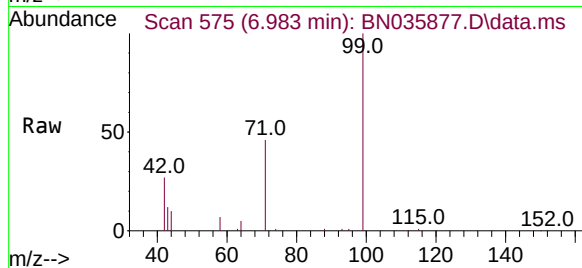




#5
Phenol-d6
Concen: 4.798 ng
RT: 6.983 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

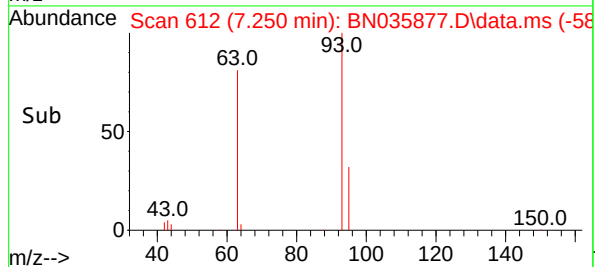
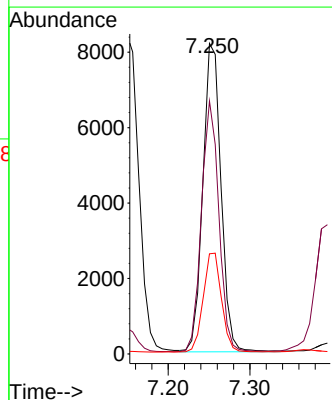
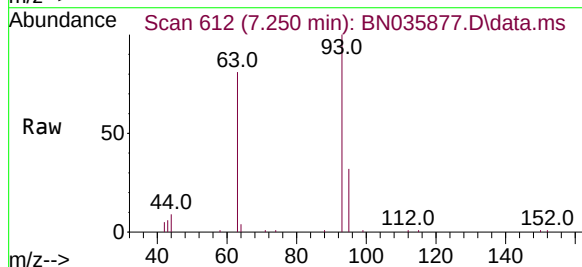
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

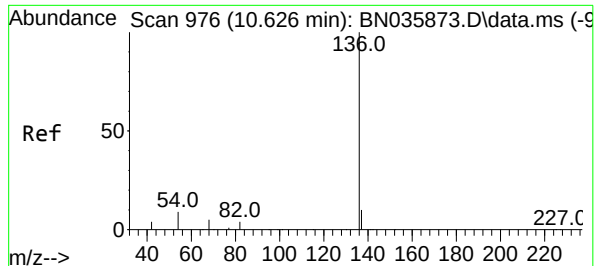
Tgt Ion: 99 Resp: 16841
Ion Ratio Lower Upper
99 100
42 29.5 23.5 35.3
71 45.5 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 4.736 ng
RT: 7.250 min Scan# 612
Delta R.T. -0.007 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion: 93 Resp: 12664
Ion Ratio Lower Upper
93 100
63 78.3 62.0 93.0
95 32.4 25.5 38.3

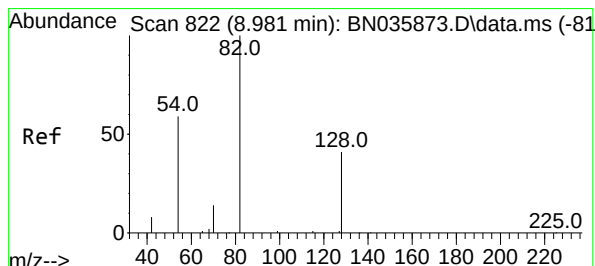
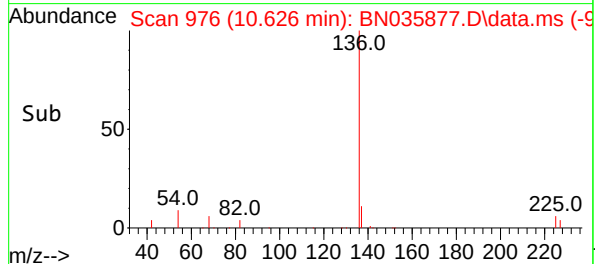
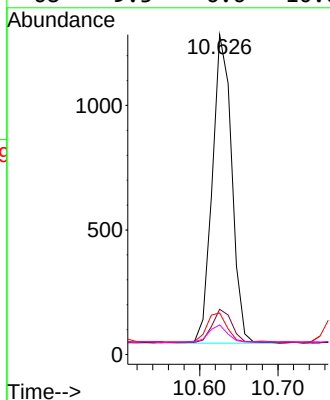
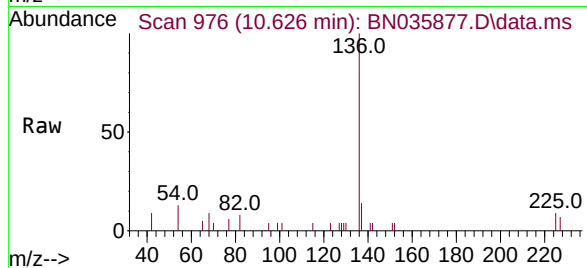




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

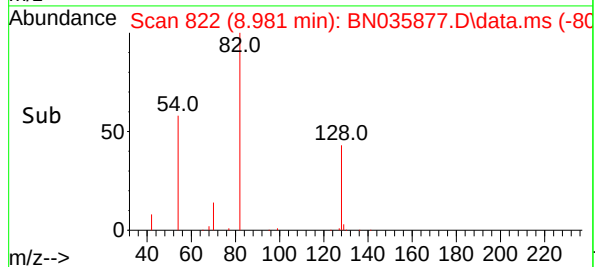
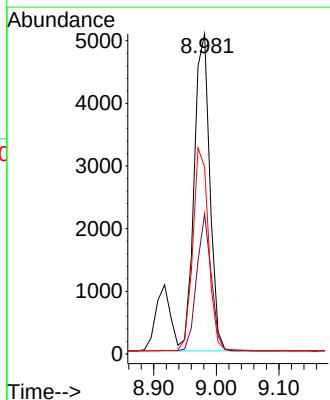
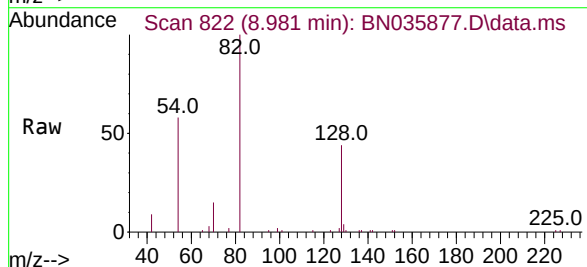
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

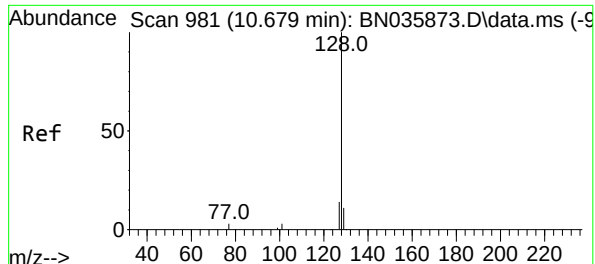
Tgt Ion:	136	Resp:	2131
Ion	Ratio	Lower	Upper
136	100		
137	14.2	10.6	15.8
54	13.0	9.8	14.6
68	9.3	6.6	10.0



#8
Nitrobenzene-d5
Concen: 5.209 ng
RT: 8.981 min Scan# 822
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion:	82	Resp:	8790
Ion	Ratio	Lower	Upper
82	100		
128	43.7	36.9	55.3
54	58.5	50.4	75.6

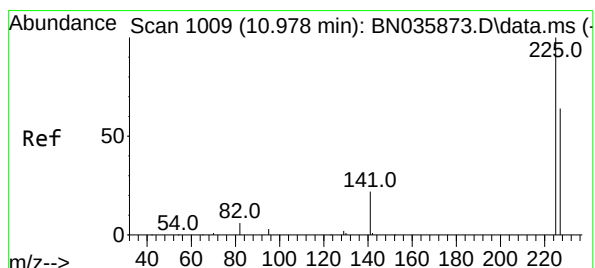
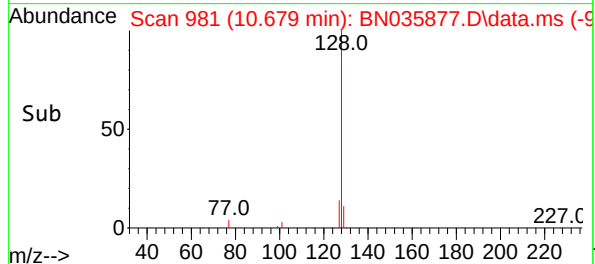
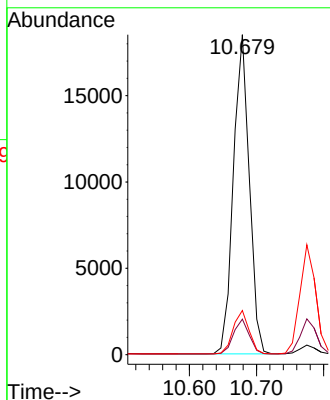
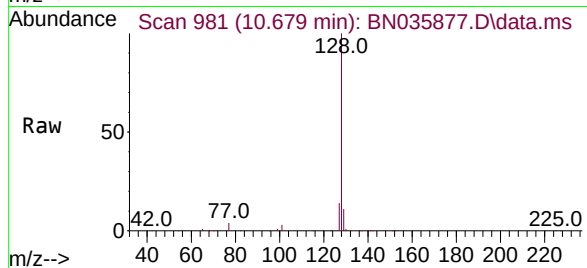




#9
Naphthalene
Concen: 5.079 ng
RT: 10.679 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

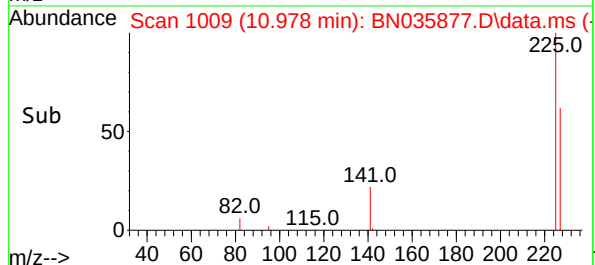
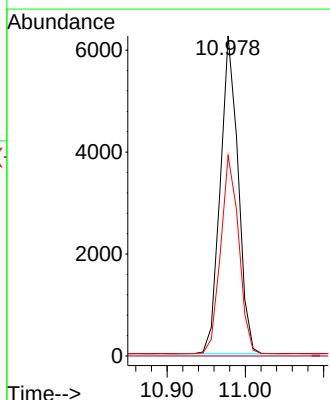
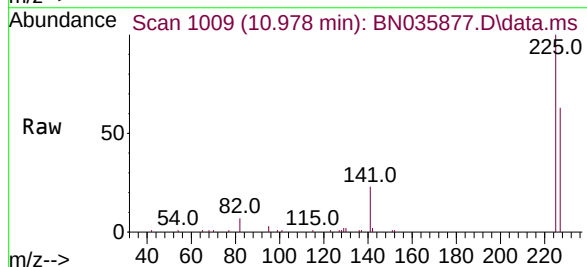
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

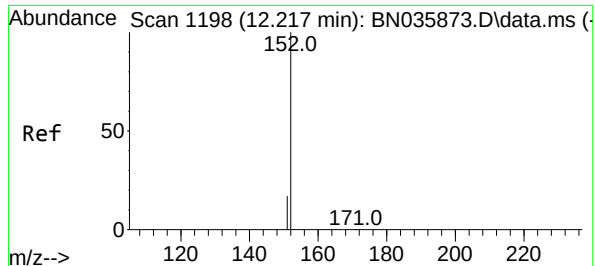
Tgt Ion:128 Resp: 30381
Ion Ratio Lower Upper
128 100
129 11.1 10.6 16.0
127 13.8 12.8 19.2



#10
Hexachlorobutadiene
Concen: 5.057 ng
RT: 10.978 min Scan# 1009
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion:225 Resp: 9822
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.3 51.5 77.3

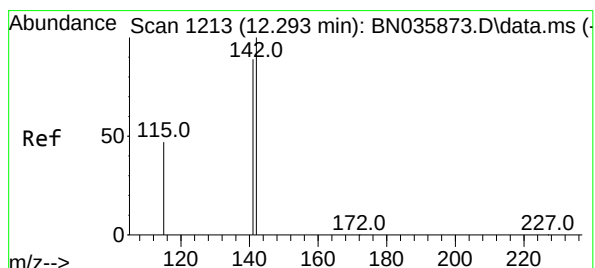
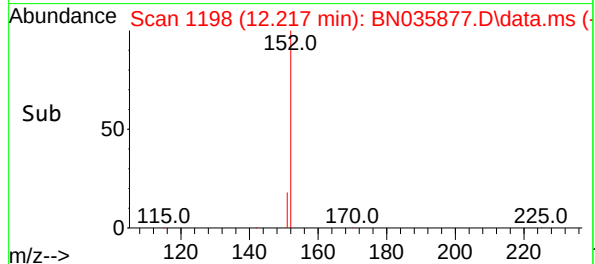
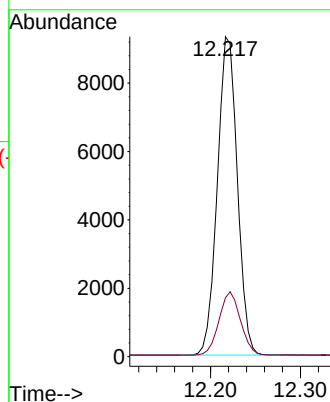
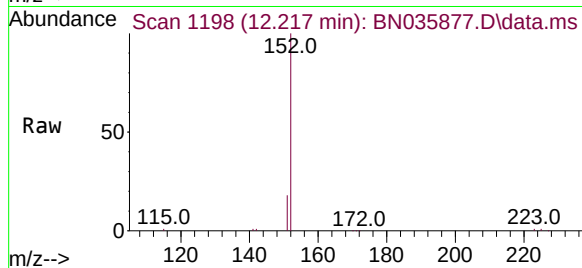




#11
2-Methylnaphthalene-d10
Concen: 5.041 ng
RT: 12.217 min Scan# 1198
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

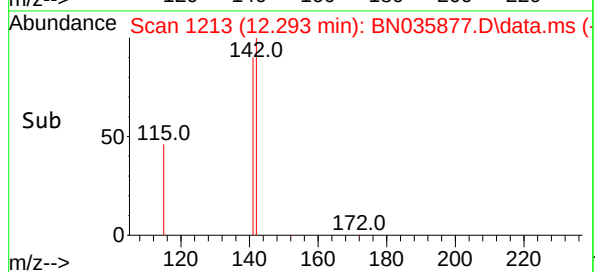
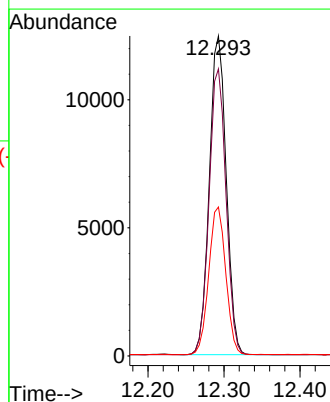
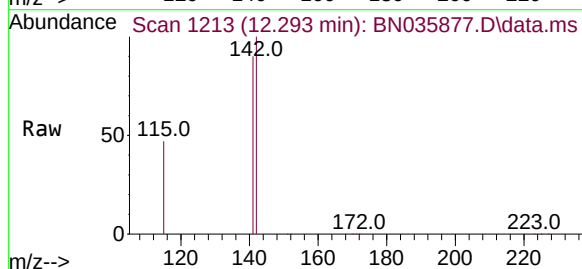
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

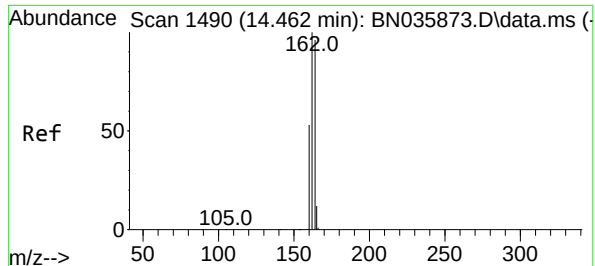
Tgt Ion:152 Resp: 14382
Ion Ratio Lower Upper
152 100
151 21.3 17.0 25.6



#12
2-Methylnaphthalene
Concen: 5.198 ng
RT: 12.293 min Scan# 1213
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion:142 Resp: 19239
Ion Ratio Lower Upper
142 100
141 89.7 71.9 107.9
115 46.5 39.6 59.4

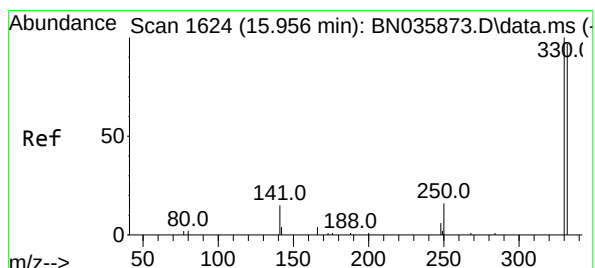
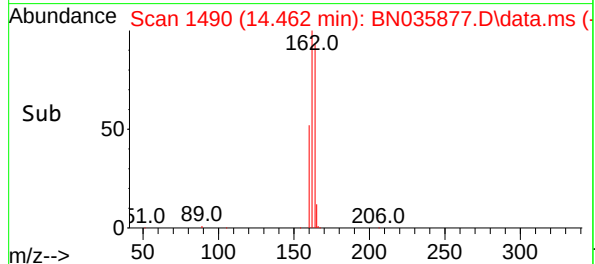
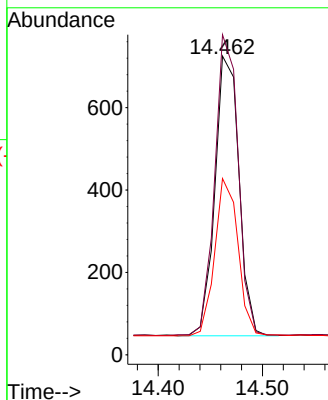
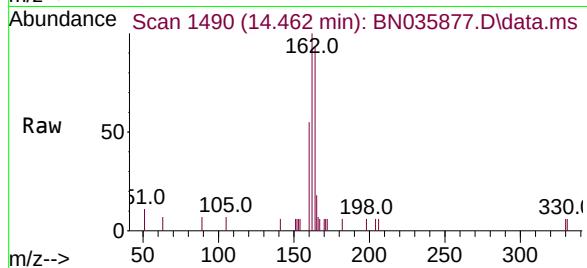




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.462 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

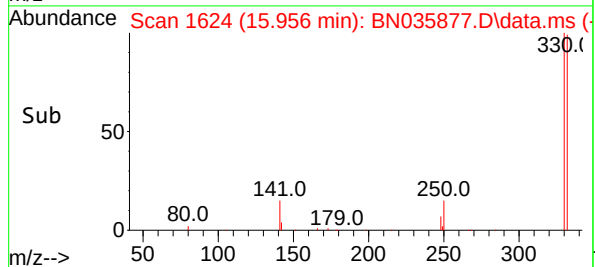
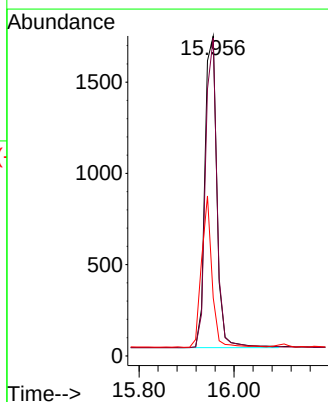
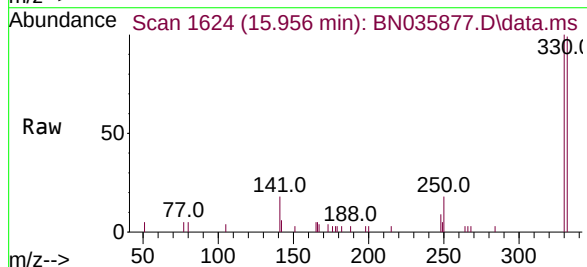
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

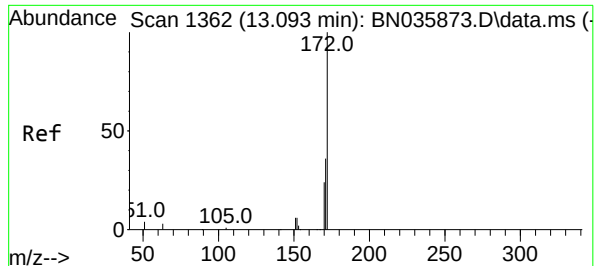
Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.2	83.1	124.7
160	59.0	46.0	69.0



#14
2,4,6-Tribromophenol
Concen: 5.726 ng
RT: 15.956 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.6	77.2	115.8
141	42.7	31.6	47.4





#15

2-Fluorobiphenyl

Concen: 5.018 ng

RT: 13.093 min Scan# 1362

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

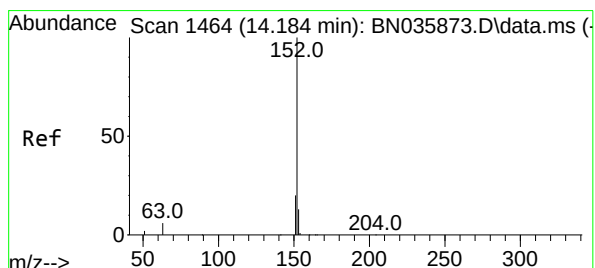
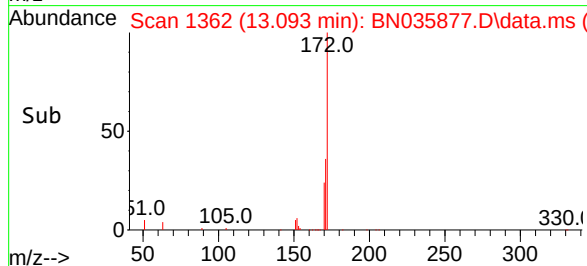
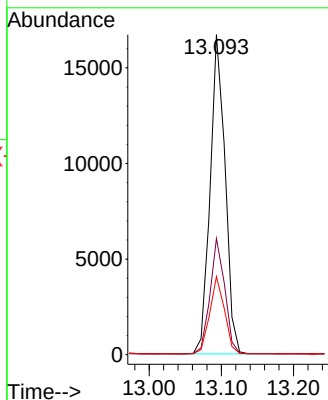
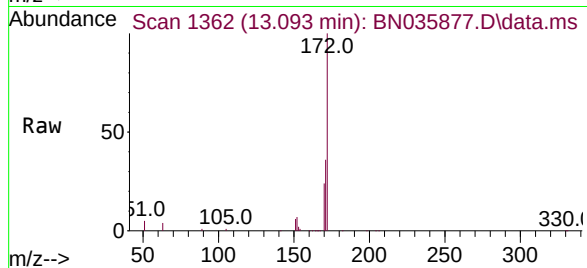
Tgt Ion:172 Resp: 24046

Ion Ratio Lower Upper

172 100

171 36.3 30.5 45.7

170 24.4 20.8 31.2



#16

Acenaphthylene

Concen: 5.210 ng

RT: 14.184 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

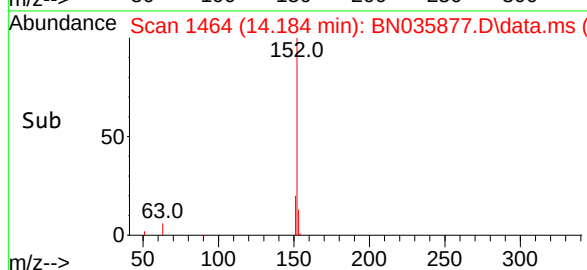
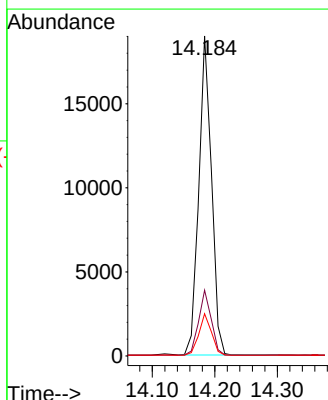
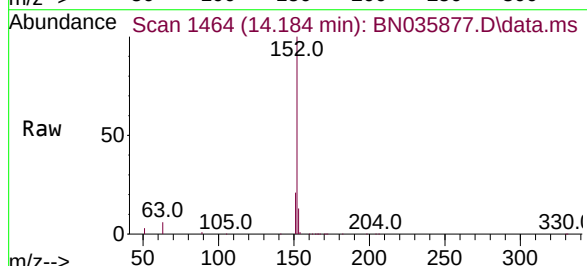
Tgt Ion:152 Resp: 26794

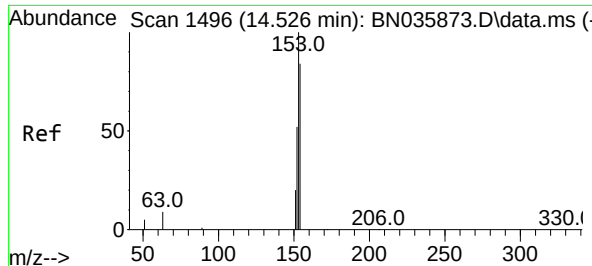
Ion Ratio Lower Upper

152 100

151 20.3 16.3 24.5

153 12.9 10.6 15.8

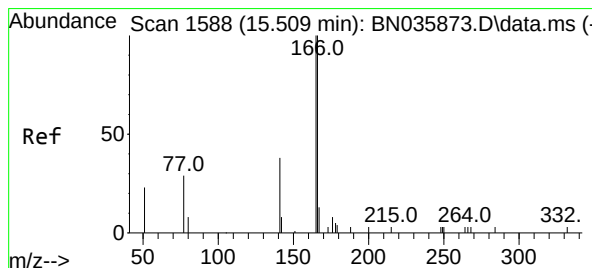
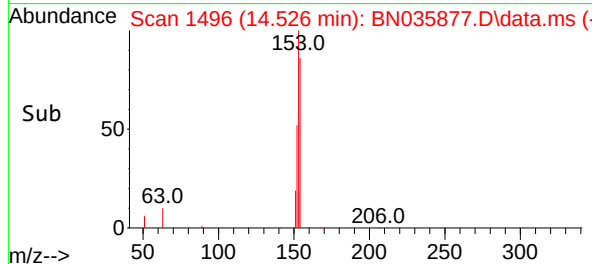
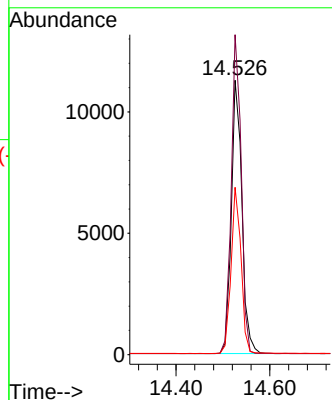
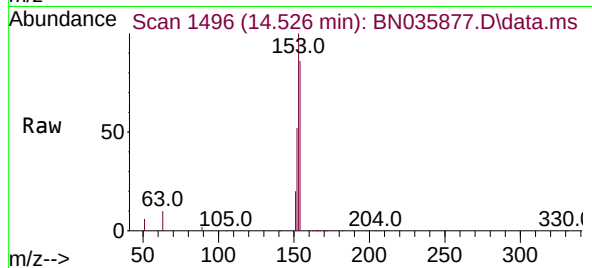




#17
Acenaphthene
Concen: 5.226 ng
RT: 14.526 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

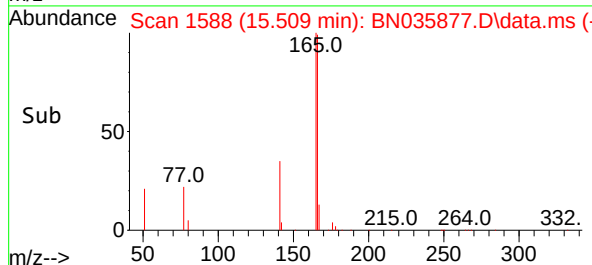
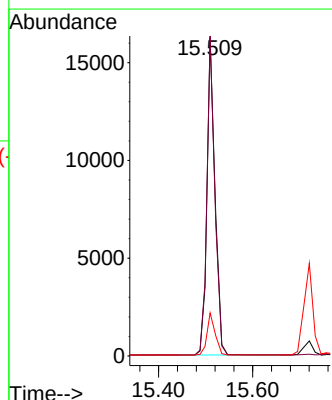
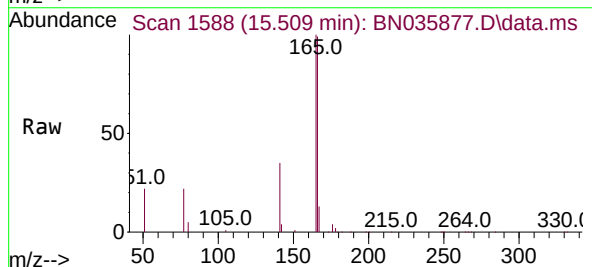
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

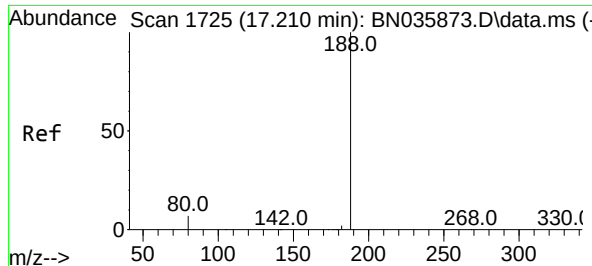
Tgt Ion:154 Resp: 17619
Ion Ratio Lower Upper
154 100
153 109.7 90.5 135.7
152 57.3 48.6 73.0



#18
Fluorene
Concen: 5.269 ng
RT: 15.509 min Scan# 1588
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion:166 Resp: 19548
Ion Ratio Lower Upper
166 100
165 99.6 80.6 120.8
167 12.9 11.4 17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

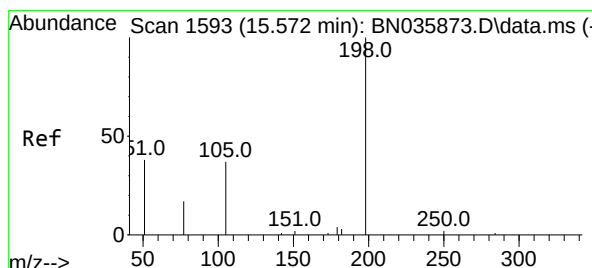
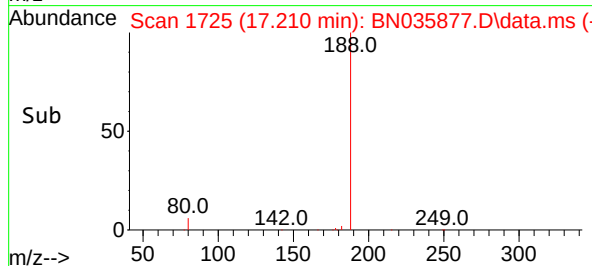
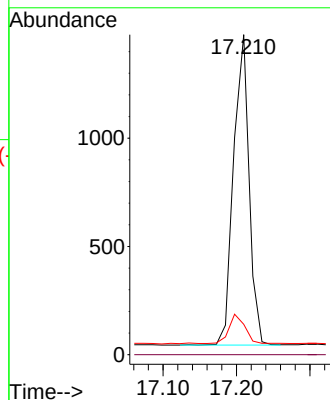
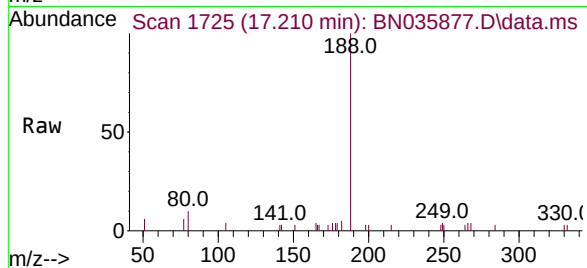
Tgt Ion:188 Resp: 2104

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 5.320 ng

RT: 15.571 min Scan# 1593

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

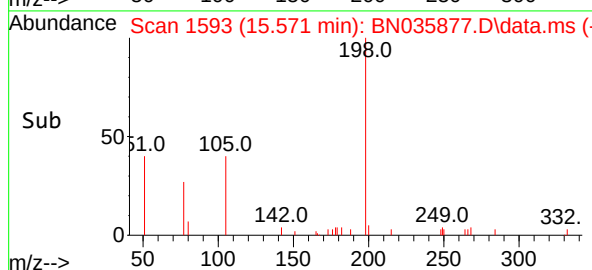
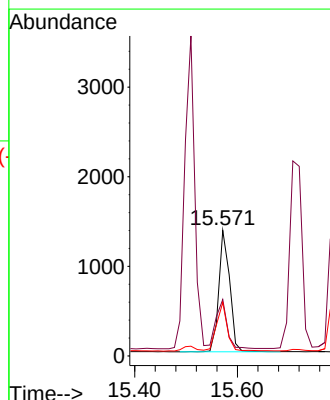
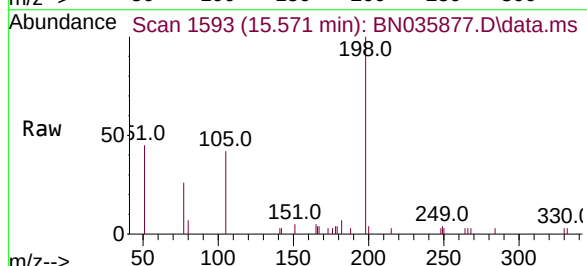
Tgt Ion:198 Resp: 1944

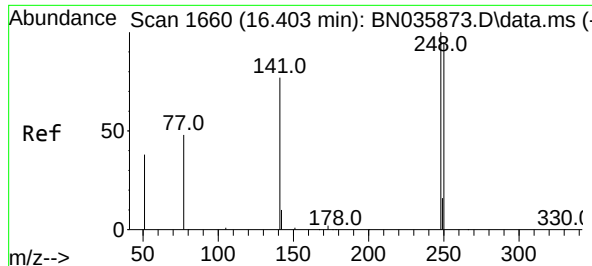
Ion Ratio Lower Upper

198 100

51 44.9 64.3 96.5#

105 42.5 50.0 75.0#

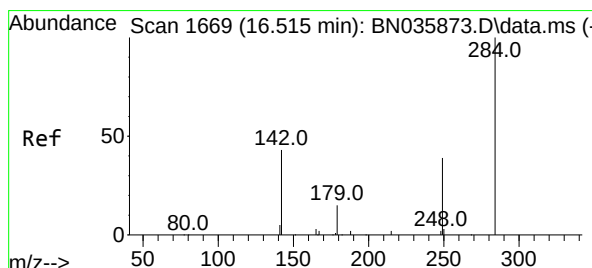
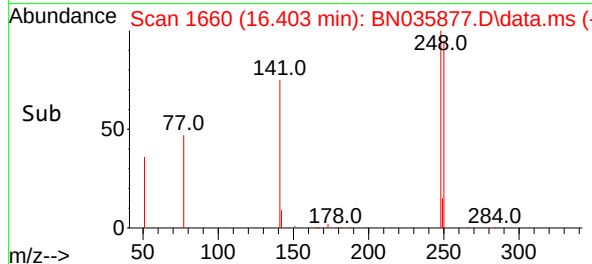
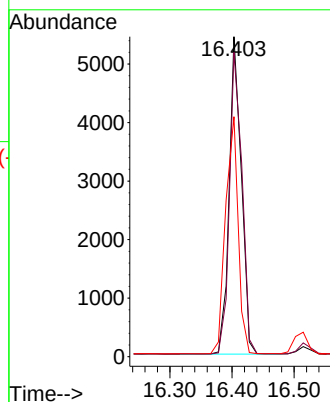
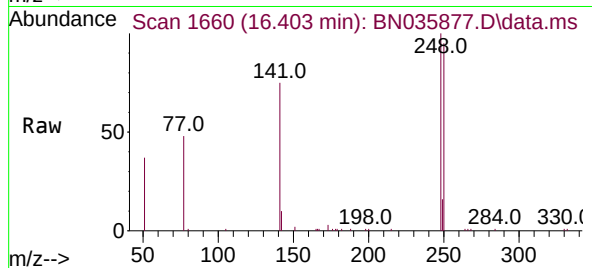




#21
4-Bromophenyl-phenylether
Concen: 5.088 ng
RT: 16.403 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

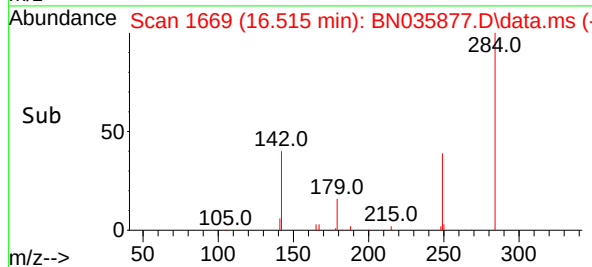
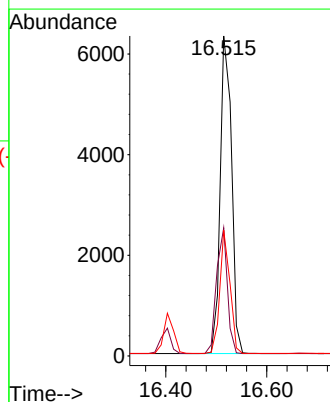
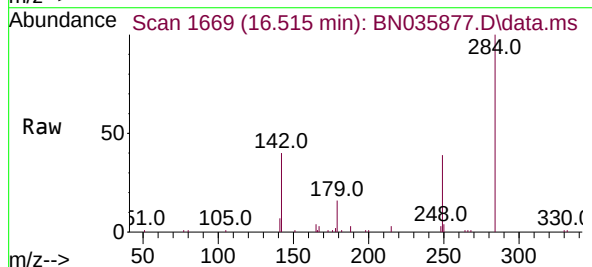
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

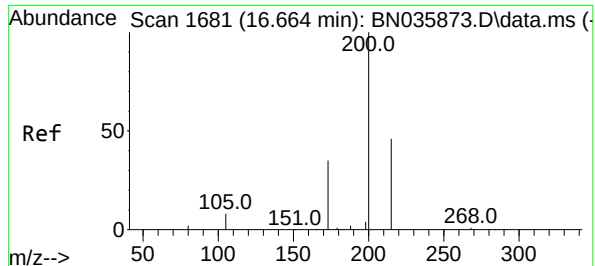
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.1	76.8	115.2
141	75.0	63.6	95.4



#22
Hexachlorobenzene
Concen: 4.956 ng
RT: 16.515 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.8	31.4	47.0
249	34.7	27.8	41.8

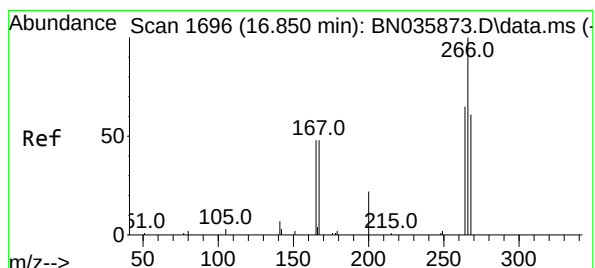
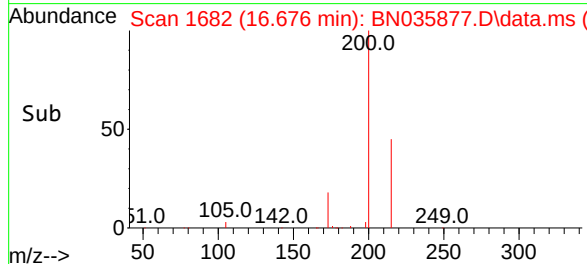
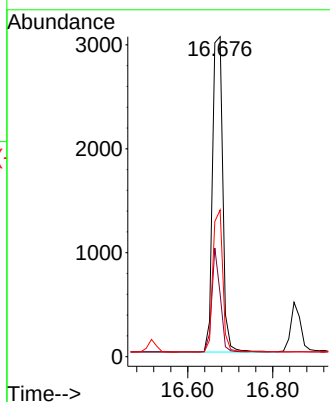
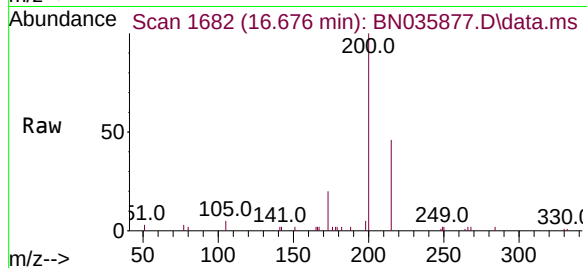




#23
Atrazine
Concen: 5.253 ng
RT: 16.676 min Scan# 1682
Delta R.T. 0.012 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

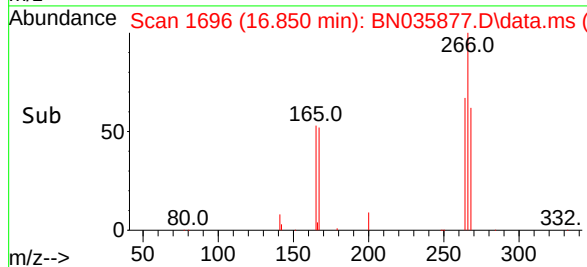
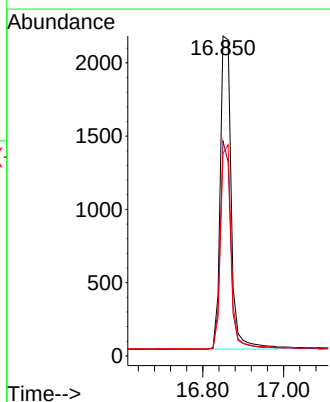
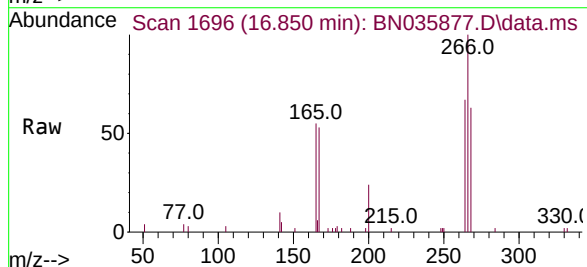
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

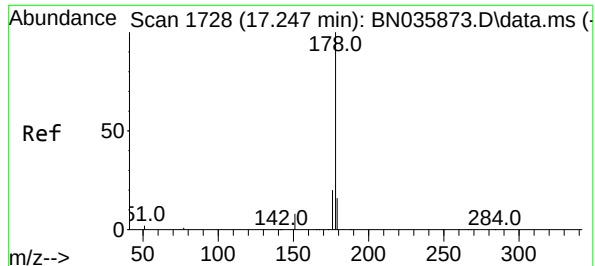
Tgt Ion:200 Resp: 5084
Ion Ratio Lower Upper
200 100
173 19.6 35.4 53.0#
215 45.8 42.4 63.6



#24
Pentachlorophenol
Concen: 5.786 ng
RT: 16.850 min Scan# 1696
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion:266 Resp: 4029
Ion Ratio Lower Upper
266 100
264 63.7 49.9 74.9
268 63.9 50.2 75.2

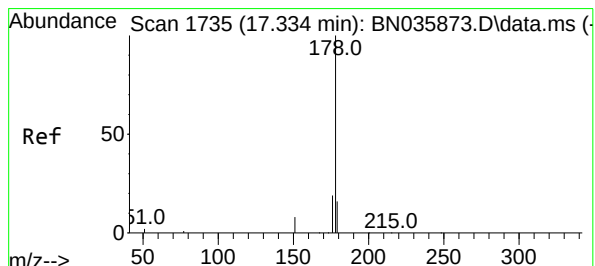
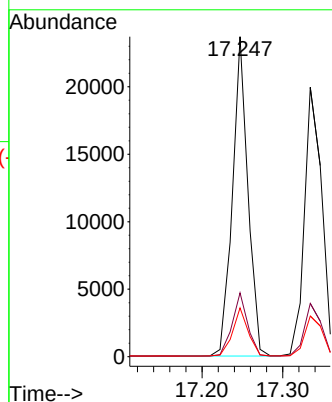
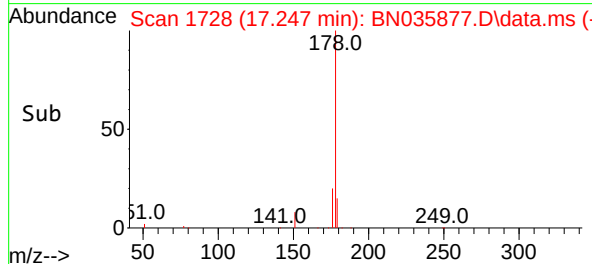
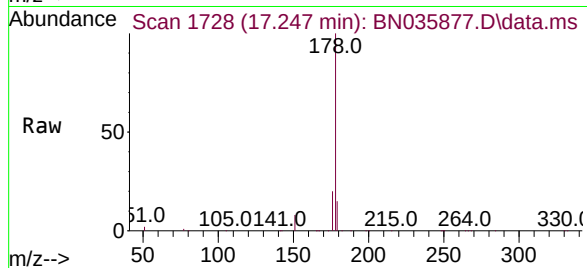




#25
Phenanthrene
Concen: 5.142 ng
RT: 17.247 min Scan# 1728
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

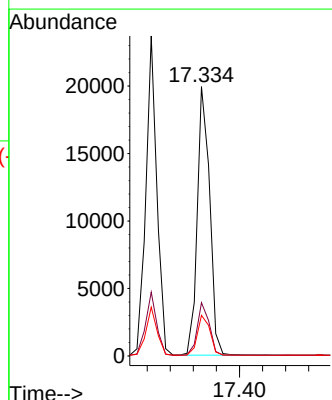
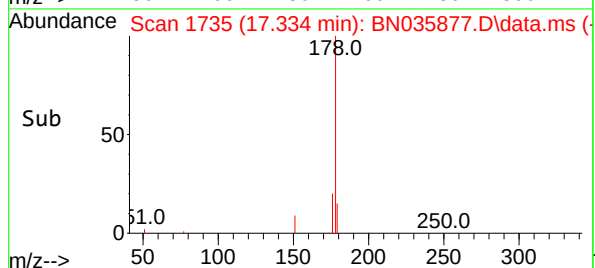
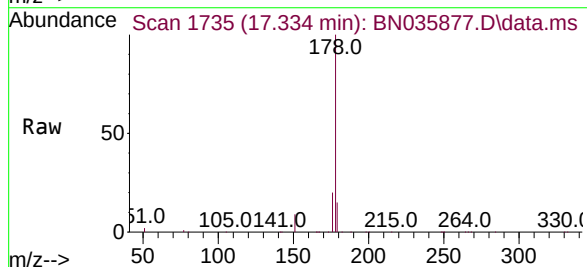
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

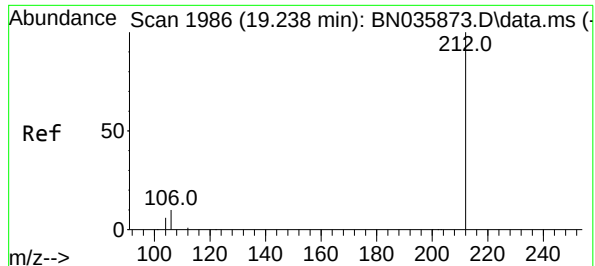
Tgt Ion:178 Resp: 31568
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.0 12.9 19.3



#26
Anthracene
Concen: 5.320 ng
RT: 17.334 min Scan# 1735
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion:178 Resp: 29722
Ion Ratio Lower Upper
178 100
176 19.2 15.0 22.6
179 15.2 13.0 19.6





#27

Fluoranthene-d10

Concen: 5.214 ng

RT: 19.238 min Scan# 1986

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

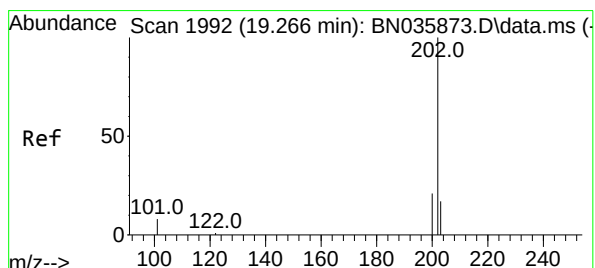
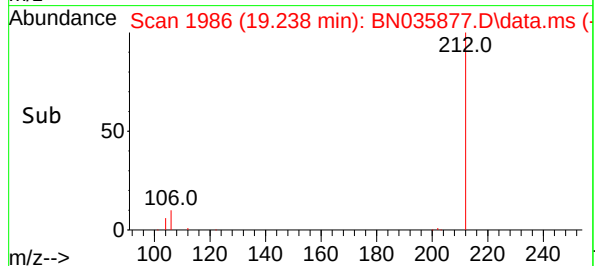
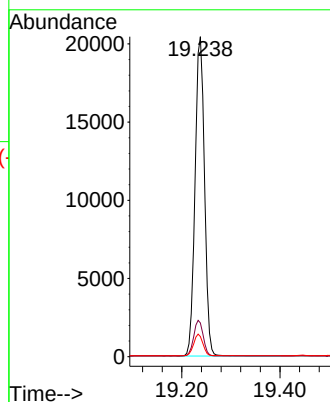
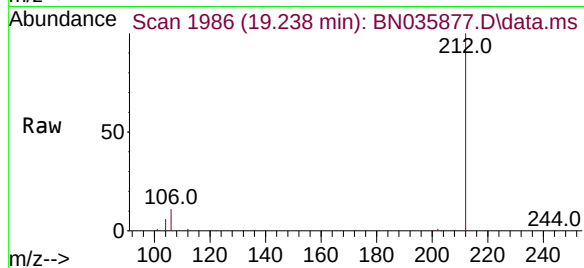
Tgt Ion:212 Resp: 27229

Ion Ratio Lower Upper

212 100

106 11.2 9.0 13.6

104 6.7 5.4 8.2



#28

Fluoranthene

Concen: 5.420 ng

RT: 19.266 min Scan# 1992

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

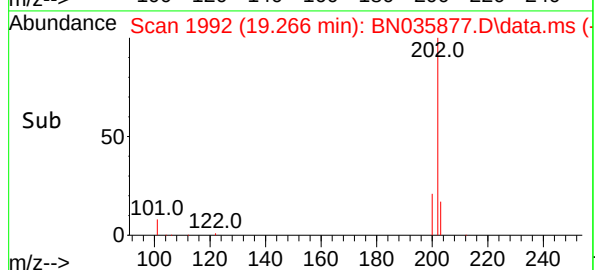
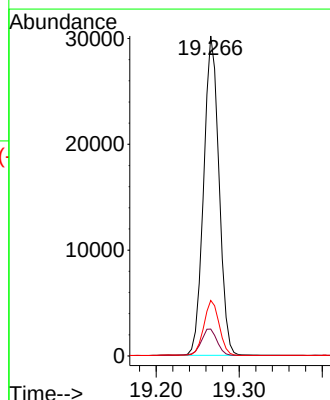
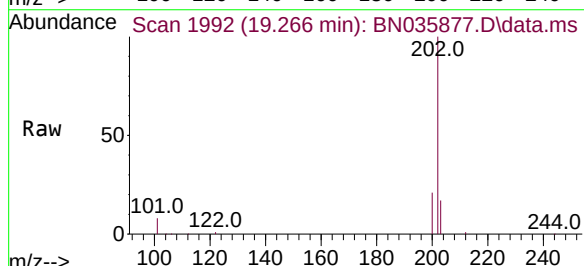
Tgt Ion:202 Resp: 38787

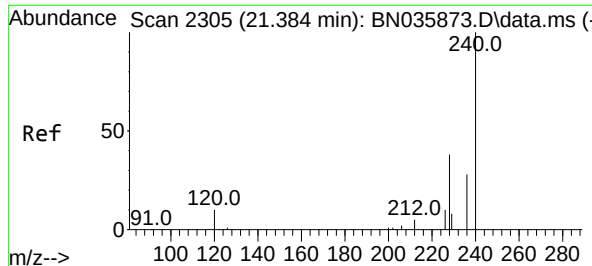
Ion Ratio Lower Upper

202 100

101 8.7 7.2 10.8

203 17.2 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

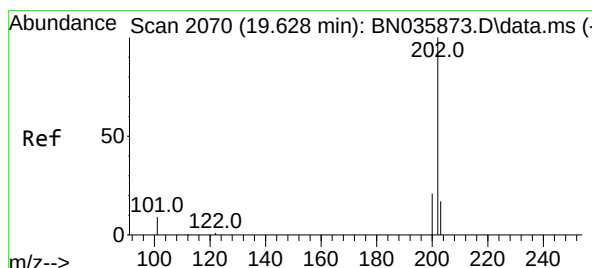
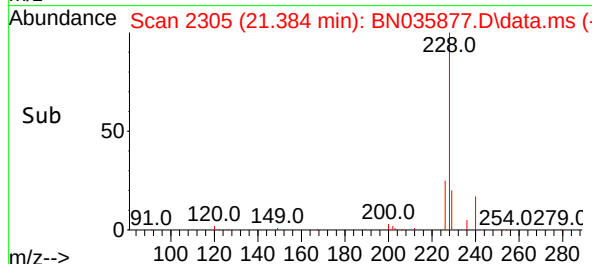
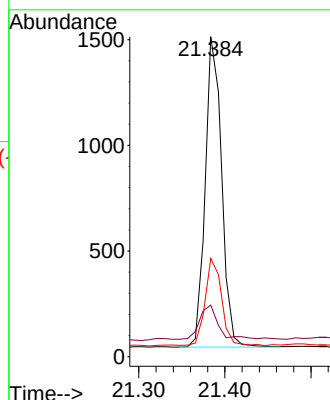
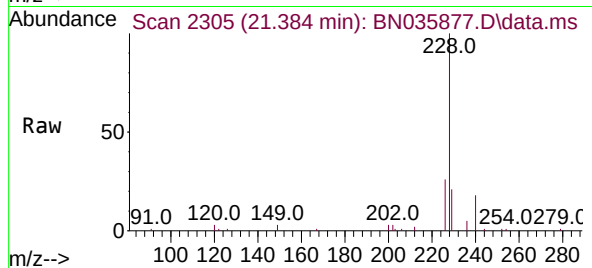
Tgt Ion:240 Resp: 1949

Ion Ratio Lower Upper

240 100

120 16.1 11.1 16.7

236 30.7 24.6 36.8



#30

Pyrene

Concen: 5.009 ng

RT: 19.628 min Scan# 2070

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

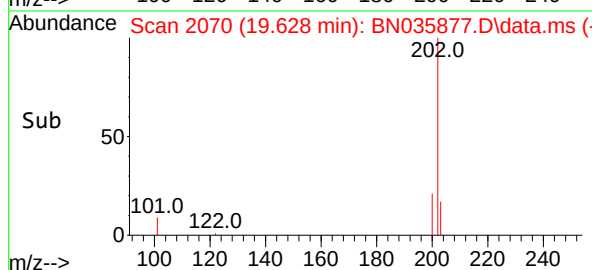
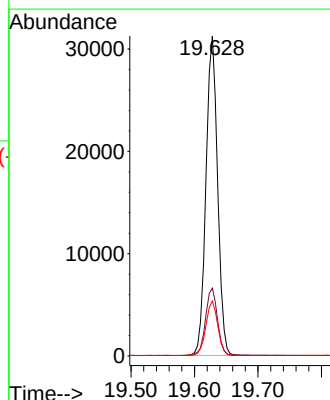
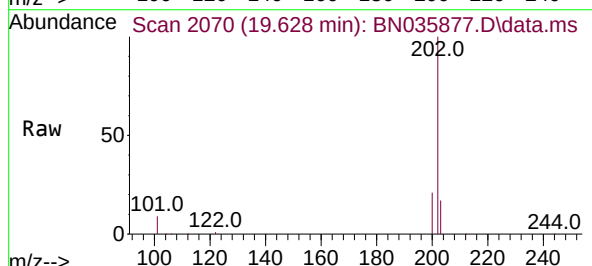
Tgt Ion:202 Resp: 39641

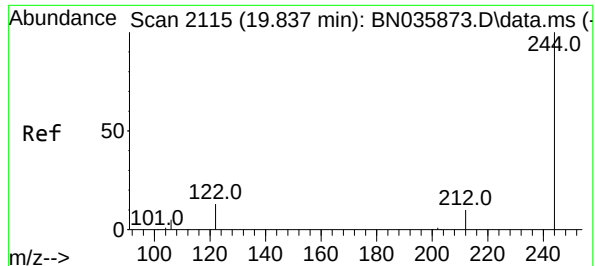
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.6 14.6 22.0

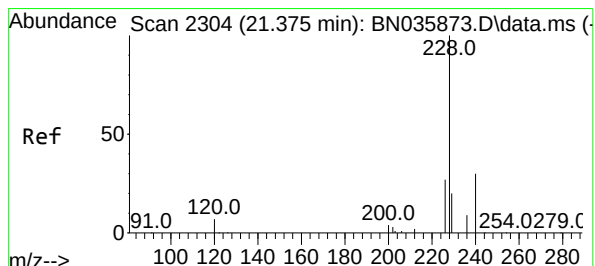
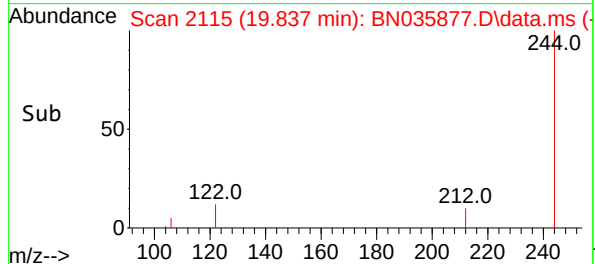
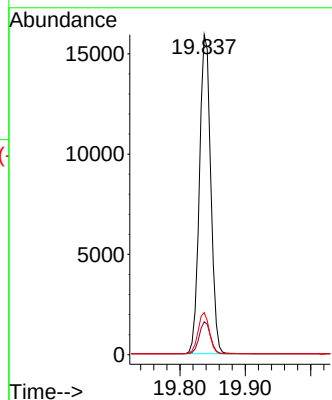
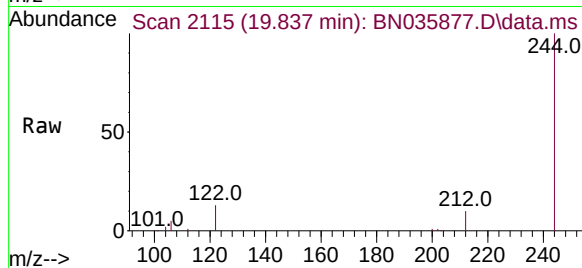




#31
Terphenyl-d14
Concen: 4.901 ng
RT: 19.837 min Scan# 2115
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

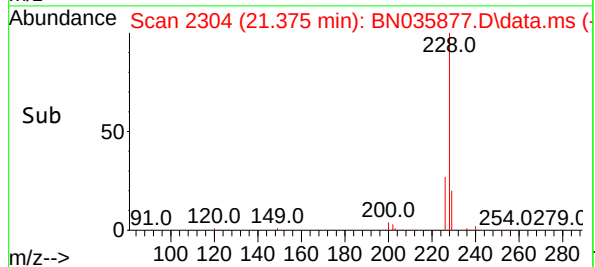
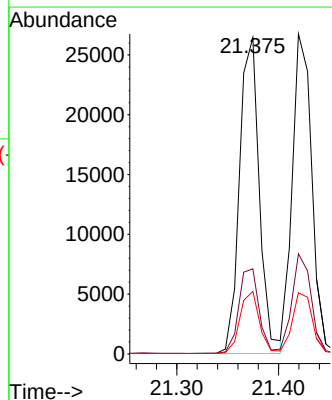
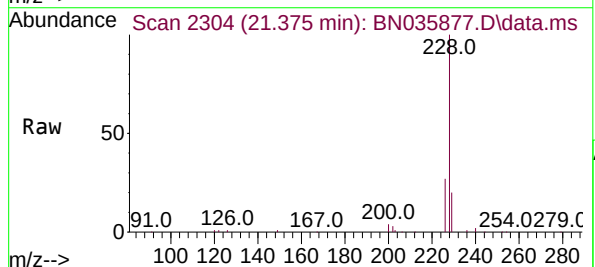
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

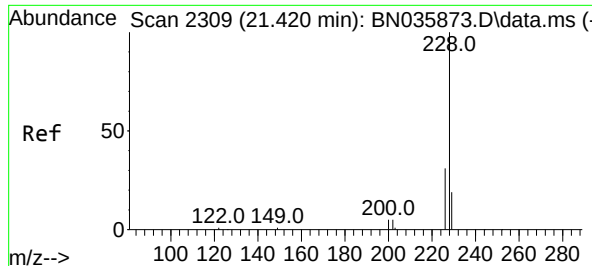
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	10.1	15.1
122	13.1	12.2	18.4



#32
Benzo(a)anthracene
Concen: 5.199 ng
RT: 21.375 min Scan# 2304
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.7	34.1
229	19.8	17.1	25.7

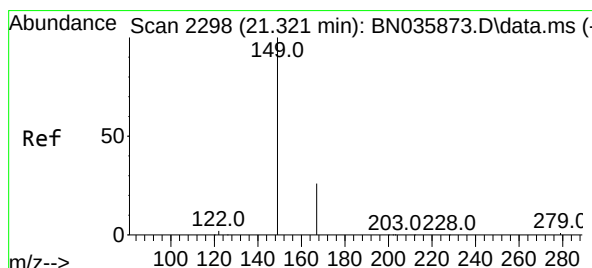
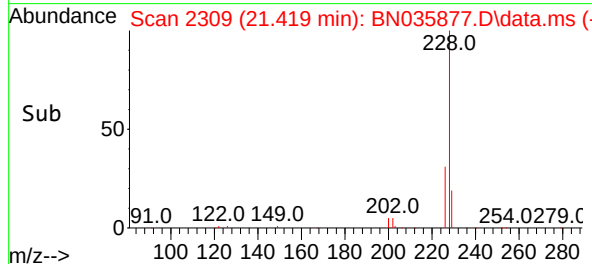
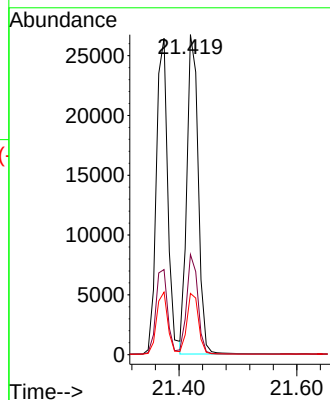
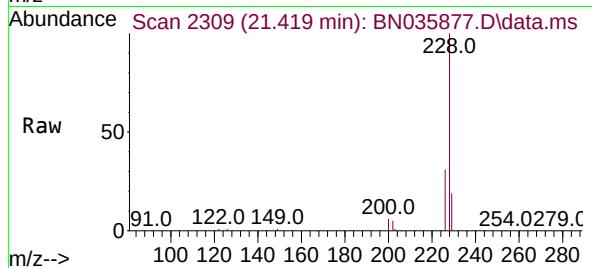




#33
Chrysene
Concen: 4.987 ng
RT: 21.419 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

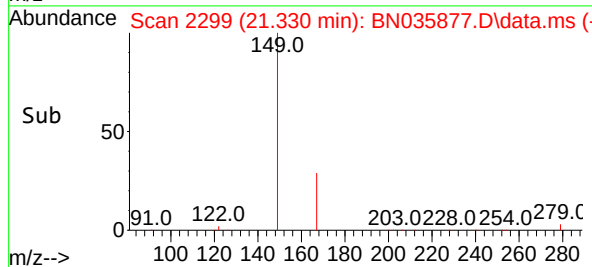
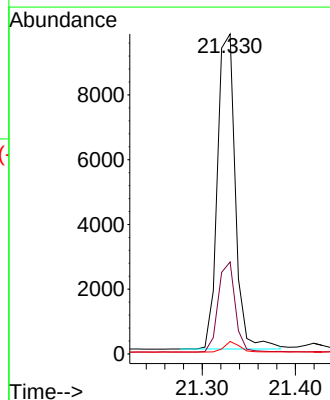
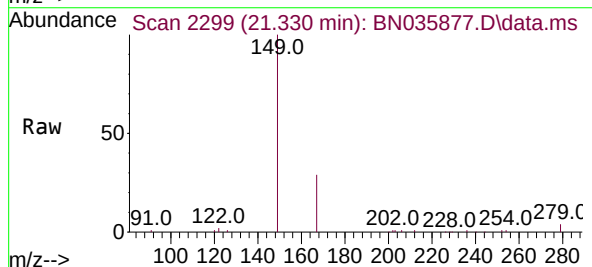
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

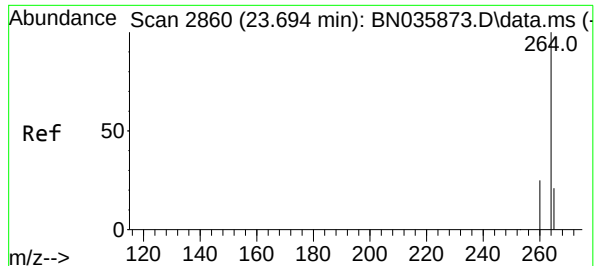
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.2	37.8
229	19.2	16.0	24.0



#34
Bis(2-ethylhexyl)phthalate
Concen: 4.623 ng
RT: 21.330 min Scan# 2299
Delta R.T. 0.009 min
Lab File: BN035877.D
Acq: 02 Jan 2025 15:04

Tgt Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.4	32.0
279	2.8	3.0	4.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.694 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

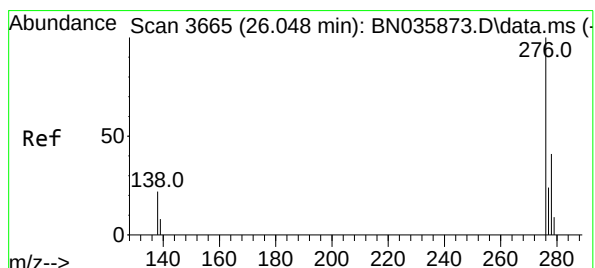
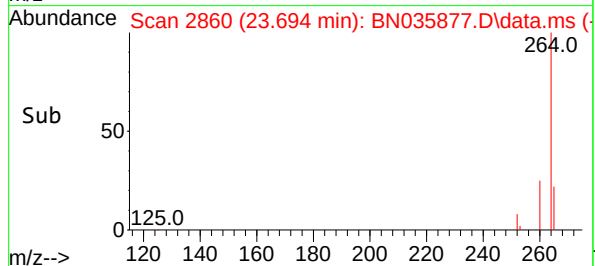
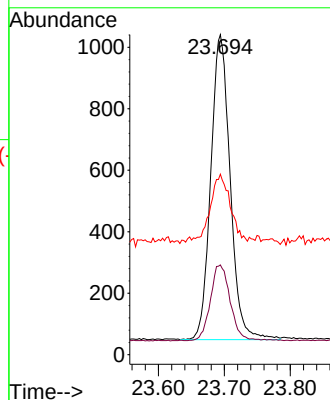
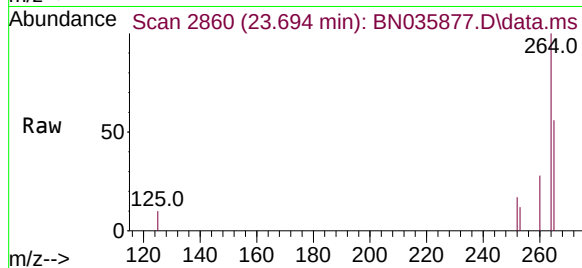
Tgt Ion:264 Resp: 2023

Ion Ratio Lower Upper

264 100

260 28.0 21.7 32.5

265 56.4 33.9 50.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.549 ng

RT: 26.050 min Scan# 3666

Delta R.T. 0.003 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

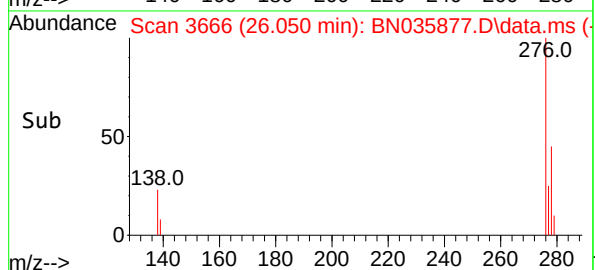
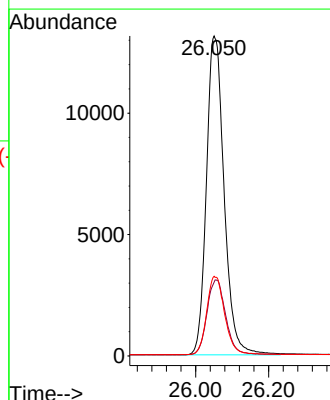
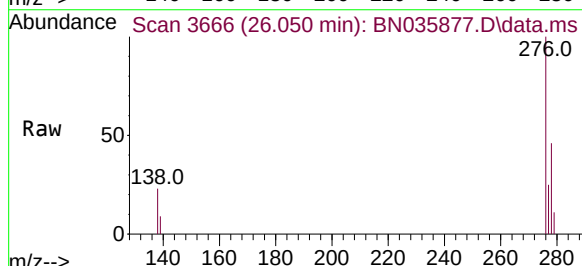
Tgt Ion:276 Resp: 44269

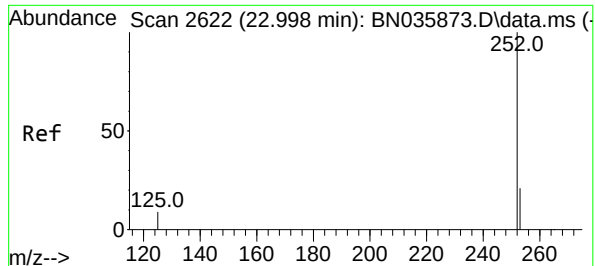
Ion Ratio Lower Upper

276 100

138 24.6 18.9 28.3

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 5.265 ng

RT: 22.998 min Scan# 2622

Delta R.T. -0.000 min

Lab File: BN035877.D

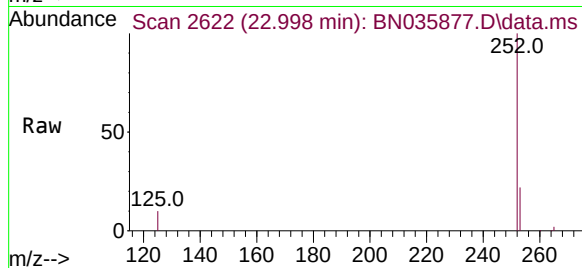
Acq: 02 Jan 2025 15:04

Instrument :

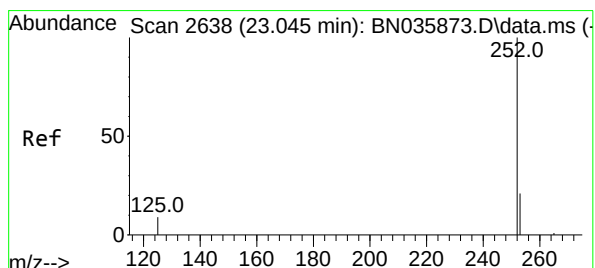
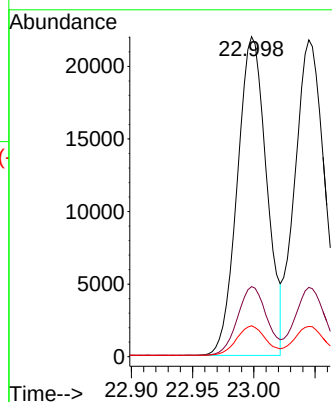
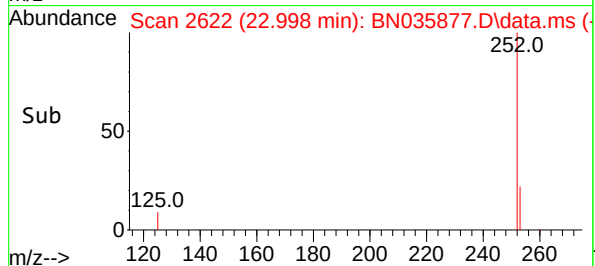
BNA_N

ClientSampleId :

SSTDICC5.0



Tgt Ion:252	Resp:	36590
Ion	Ratio	Lower Upper
252	100	
253	21.9	20.1 30.1
125	9.7	9.9 14.9



#38

Benzo(k)fluoranthene

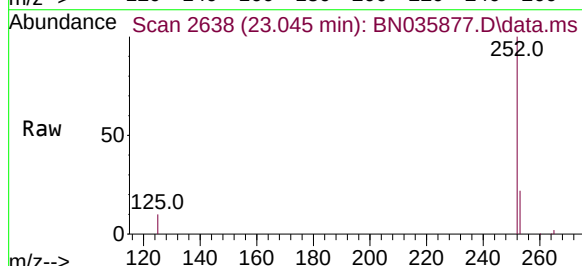
Concen: 5.447 ng

RT: 23.045 min Scan# 2638

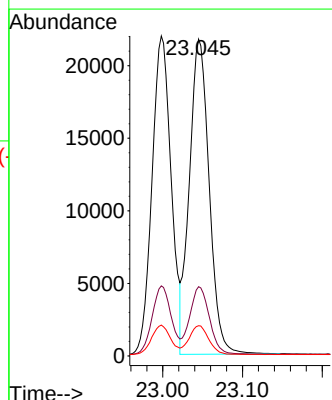
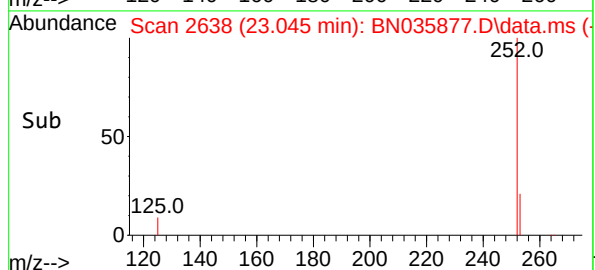
Delta R.T. -0.000 min

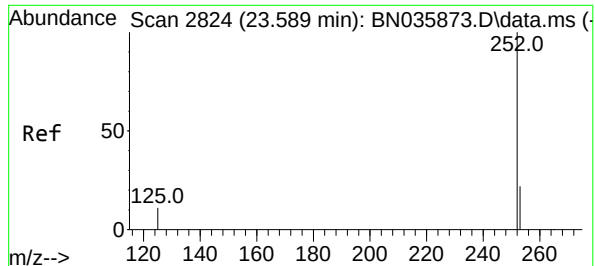
Lab File: BN035877.D

Acq: 02 Jan 2025 15:04



Tgt Ion:252	Resp:	37476
Ion	Ratio	Lower Upper
252	100	
253	21.9	20.5 30.7
125	9.5	10.6 16.0





#39

Benzo(a)pyrene

Concen: 5.398 ng

RT: 23.592 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

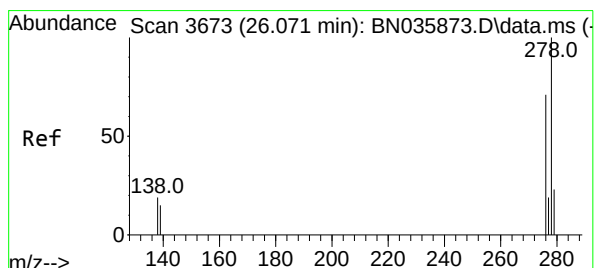
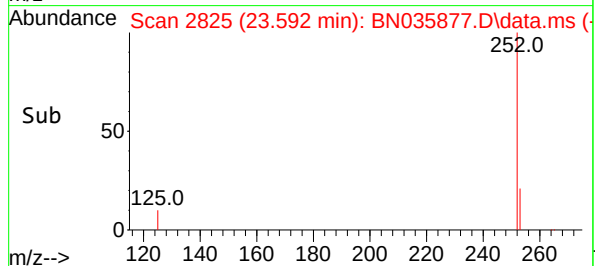
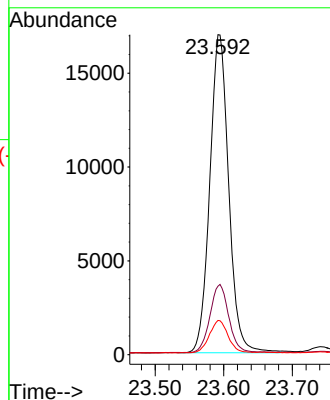
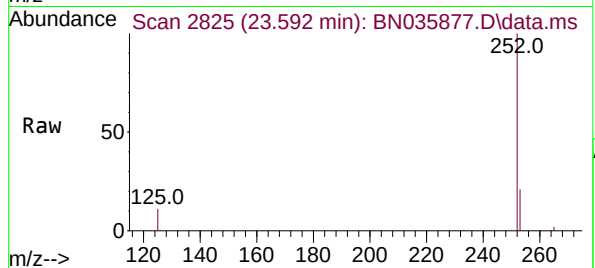
Tgt Ion:252 Resp: 32476

Ion Ratio Lower Upper

252 100

253 21.4 21.5 32.3#

125 10.7 12.6 19.0#



#40

Dibenzo(a,h)anthracene

Concen: 5.585 ng

RT: 26.071 min Scan# 3673

Delta R.T. -0.000 min

Lab File: BN035877.D

Acq: 02 Jan 2025 15:04

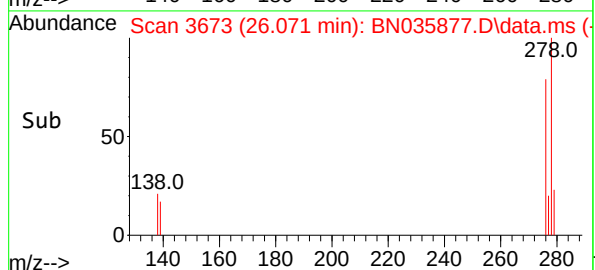
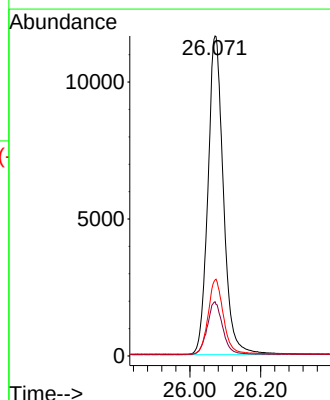
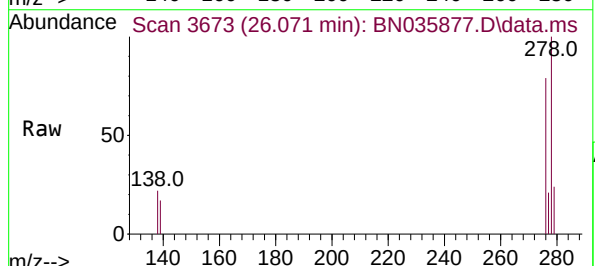
Tgt Ion:278 Resp: 35448

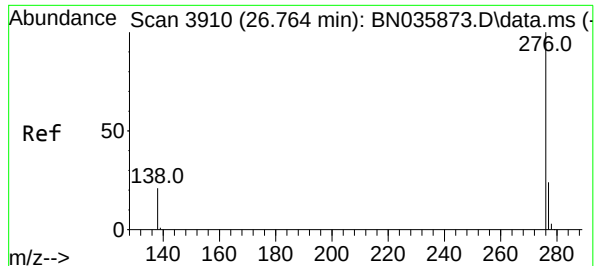
Ion Ratio Lower Upper

278 100

139 17.0 15.9 23.9

279 23.7 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 5.450 ng

RT: 26.770 min Scan# 3912

Delta R.T. 0.006 min

Lab File: BN035877.D

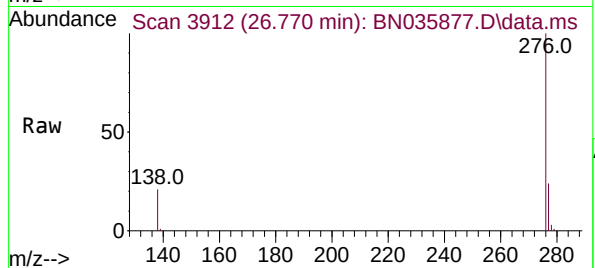
Acq: 02 Jan 2025 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



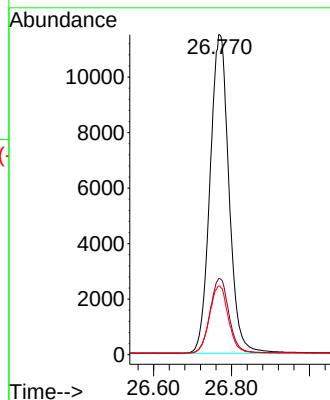
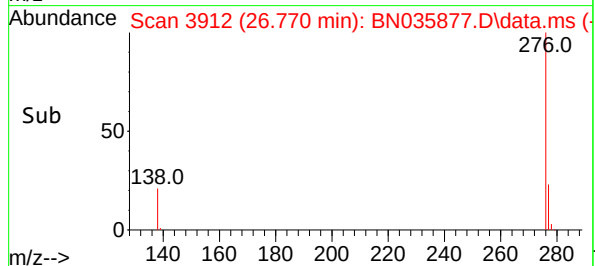
Tgt Ion:276 Resp: 38678

Ion Ratio Lower Upper

276 100

277 23.7 22.8 34.2

138 21.5 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035878.D
 Acq On : 02 Jan 2025 15:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN010225

Quant Time: Jan 02 16:21:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

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

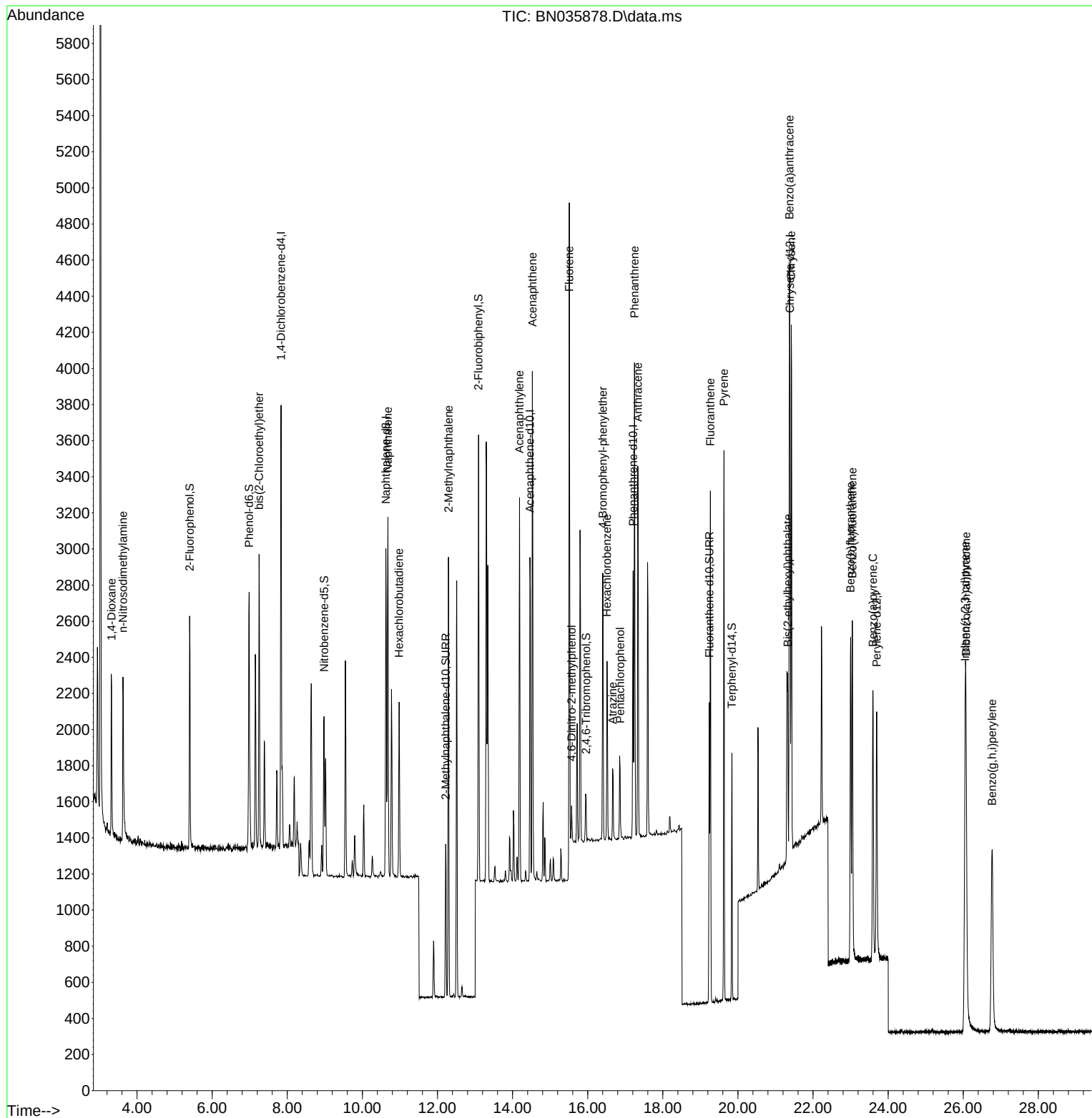
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.835	152	1111	0.400	ng	0.00
7) Naphthalene-d8	10.625	136	2204	0.400	ng	0.00
13) Acenaphthene-d10	14.462	164	1019	0.400	ng	0.00
19) Phenanthrene-d10	17.210	188	1951	0.400	ng	0.00
29) Chrysene-d12	21.384	240	1648	0.400	ng	# 0.00
35) Perylene-d12	23.697	264	1887	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.401	112	933	0.342	ng	0.00
5) Phenol-d6	6.983	99	1123	0.332	ng	0.00
8) Nitrobenzene-d5	8.981	82	694	0.398	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	1148	0.389	ng	0.00
14) 2,4,6-Tribromophenol	15.956	330	171	0.350	ng	0.00
15) 2-Fluorobiphenyl	13.093	172	1929	0.431	ng	0.00
27) Fluoranthene-d10	19.238	212	1850	0.382	ng	0.00
31) Terphenyl-d14	19.837	244	1291	0.393	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.321	88	520	0.471	ng	97
3) n-Nitrosodimethylamine	3.625	42	806	0.419	ng	# 97
6) bis(2-Chloroethyl)ether	7.250	93	1074	0.416	ng	97
9) Naphthalene	10.679	128	2466	0.399	ng	99
10) Hexachlorobutadiene	10.978	225	778	0.387	ng	# 98
12) 2-Methylnaphthalene	12.293	142	1561	0.408	ng	98
16) Acenaphthylene	14.184	152	2167	0.452	ng	100
17) Acenaphthene	14.526	154	1341	0.426	ng	98
18) Fluorene	15.509	166	1412	0.408	ng	96
20) 4,6-Dinitro-2-methylph...	15.571	198	139	0.410	ng	97
21) 4-Bromophenyl-phenylether	16.403	248	532	0.398	ng	98
22) Hexachlorobenzene	16.515	284	743	0.407	ng	99
23) Atrazine	16.664	200	346	0.386	ng	97
24) Pentachlorophenol	16.862	266	253	0.392	ng	95
25) Phenanthrene	17.247	178	2381	0.418	ng	99
26) Anthracene	17.334	178	2196	0.424	ng	98
28) Fluoranthene	19.266	202	2530	0.381	ng	99
30) Pyrene	19.628	202	2613	0.391	ng	99
32) Benzo(a)anthracene	21.375	228	2353	0.405	ng	100
33) Chrysene	21.419	228	2440	0.402	ng	97
34) Bis(2-ethylhexyl)phtha...	21.330	149	930	0.393	ng	100
36) Indeno(1,2,3-cd)pyrene	26.050	276	2972	0.399	ng	98
37) Benzo(b)fluoranthene	23.001	252	2413	0.372	ng	# 94
38) Benzo(k)fluoranthene	23.048	252	2442	0.381	ng	96
39) Benzo(a)pyrene	23.594	252	2250	0.401	ng	97
40) Dibenzo(a,h)anthracene	26.074	278	2353	0.397	ng	98
41) Benzo(g,h,i)perylene	26.767	276	2378	0.359	ng	98

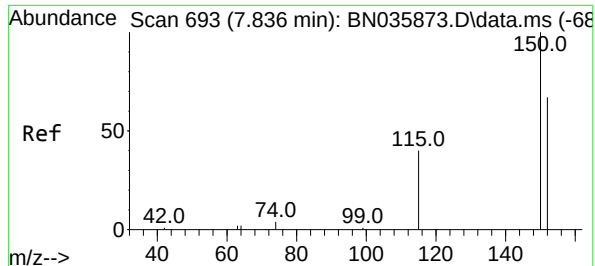
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035878.D
Acq On : 02 Jan 2025 15:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN010225

Quant Time: Jan 02 16:21:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

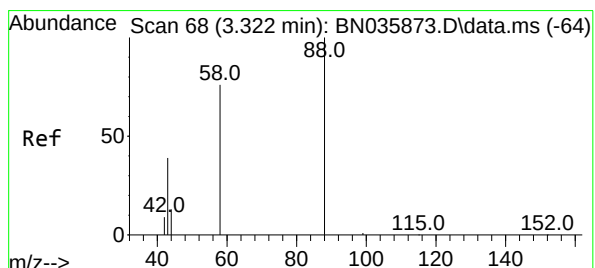
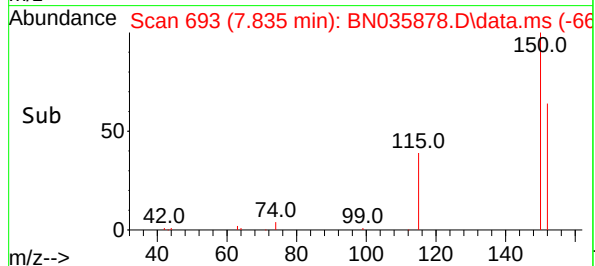
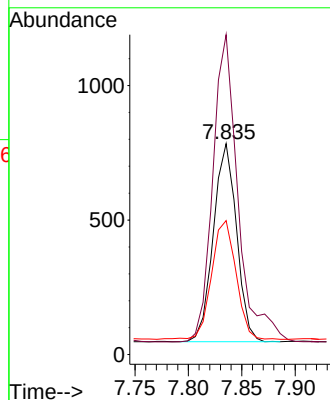
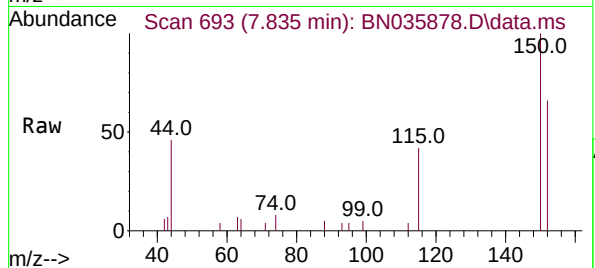




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.835 min Scan# 693
Delta R.T. -0.001 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

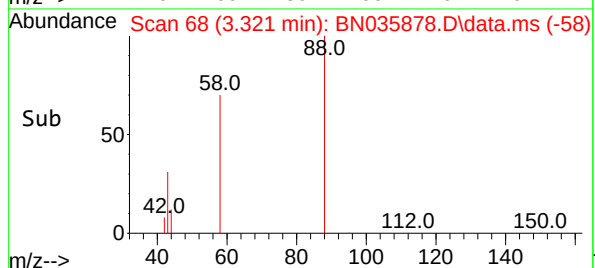
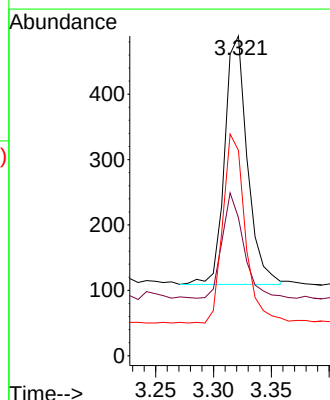
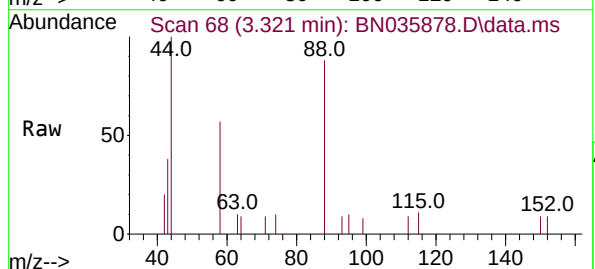
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

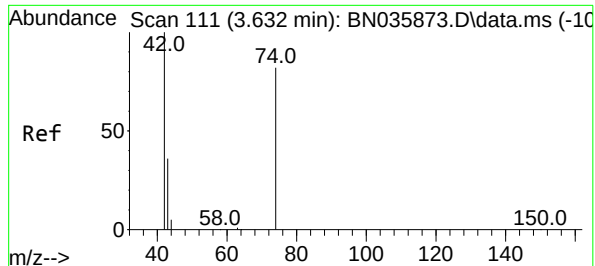
Tgt Ion: 152 Resp: 1111
Ion Ratio Lower Upper
152 100
150 151.7 117.8 176.6
115 63.5 51.0 76.4



#2
1,4-Dioxane
Concen: 0.471 ng
RT: 3.321 min Scan# 68
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion: 88 Resp: 520
Ion Ratio Lower Upper
88 100
43 40.0 32.7 49.1
58 75.0 63.0 94.4

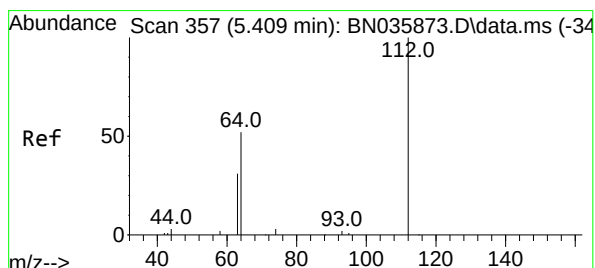
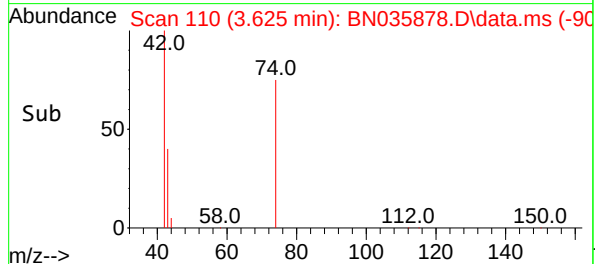
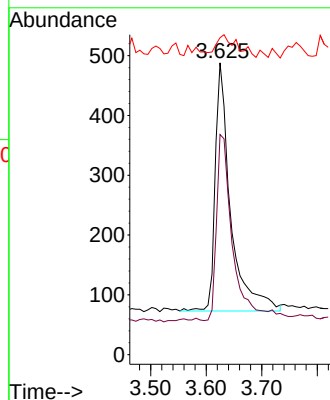
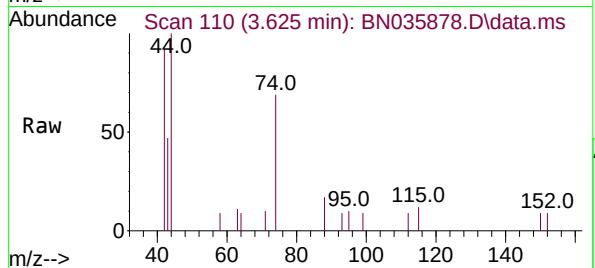




#3
n-Nitrosodimethylamine
Concen: 0.419 ng
RT: 3.625 min Scan# 111
Delta R.T. -0.007 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

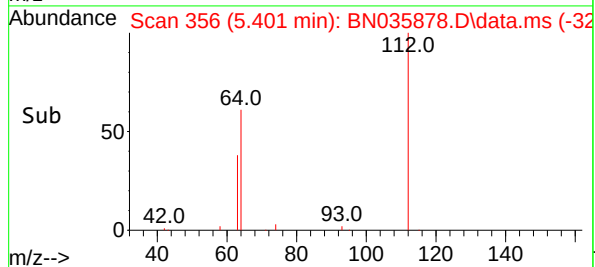
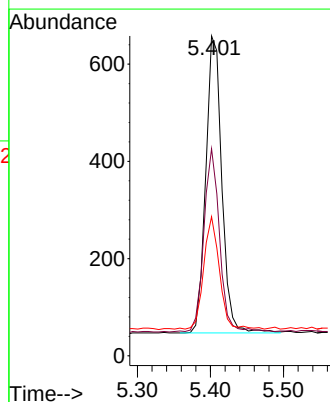
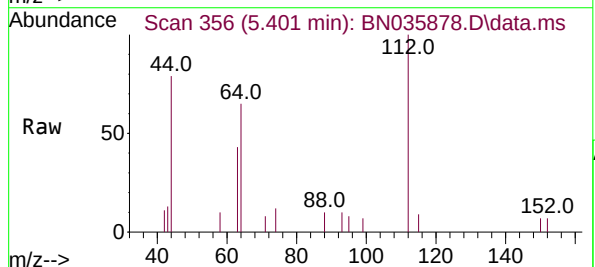
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

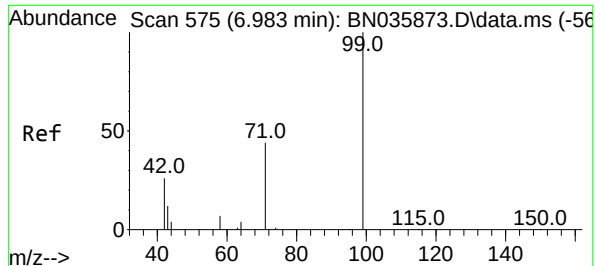
Tgt Ion: 42 Resp: 806
Ion Ratio Lower Upper
42 100
74 79.4 62.2 93.2
44 12.0 7.1 10.7#



#4
2-Fluorophenol
Concen: 0.342 ng
RT: 5.401 min Scan# 356
Delta R.T. -0.007 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion: 112 Resp: 933
Ion Ratio Lower Upper
112 100
64 60.5 48.2 72.2
63 36.9 30.0 45.0

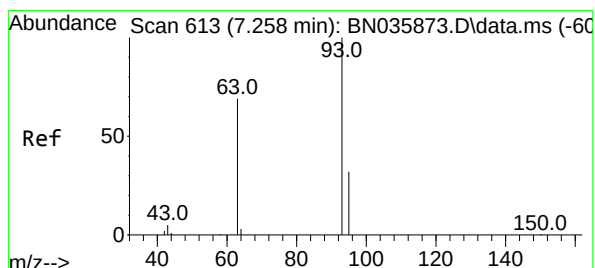
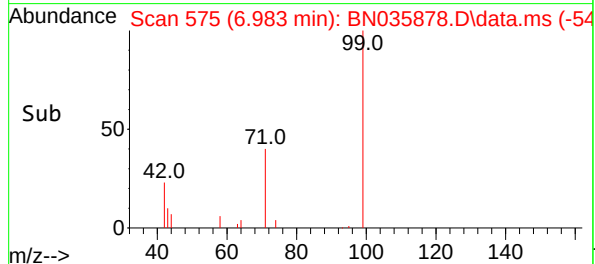
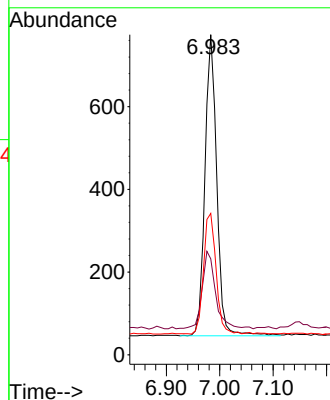
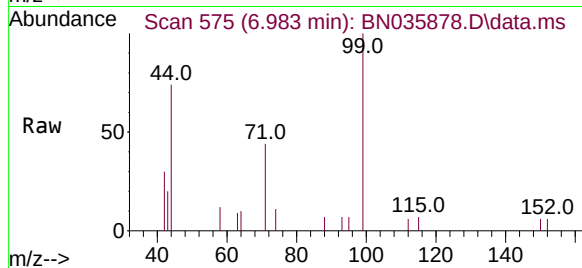




#5
Phenol-d6
Concen: 0.332 ng
RT: 6.983 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

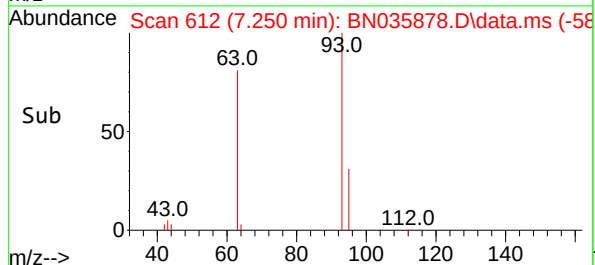
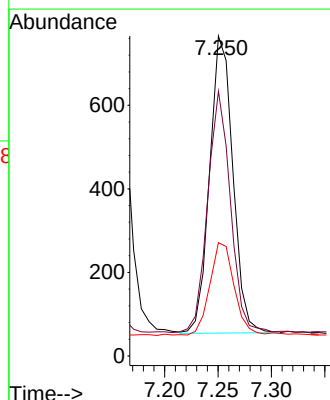
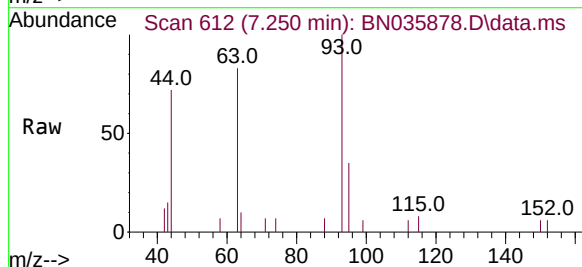
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

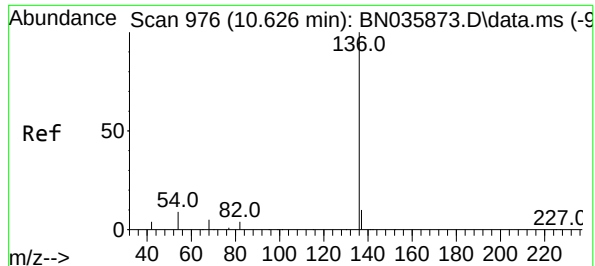
Tgt Ion: 99 Resp: 1123
Ion Ratio Lower Upper
99 100
42 29.0 23.5 35.3
71 42.0 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.416 ng
RT: 7.250 min Scan# 612
Delta R.T. -0.007 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion: 93 Resp: 1074
Ion Ratio Lower Upper
93 100
63 80.4 62.0 93.0
95 33.2 25.5 38.3

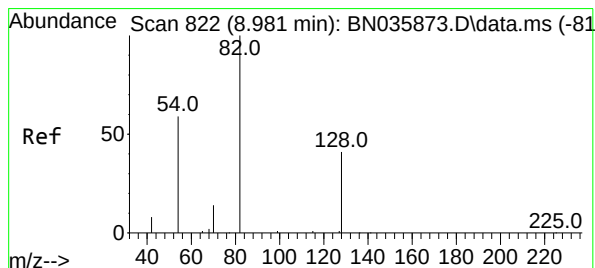
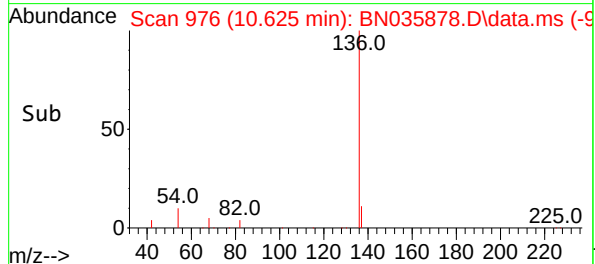
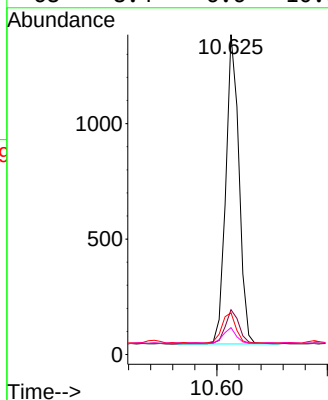
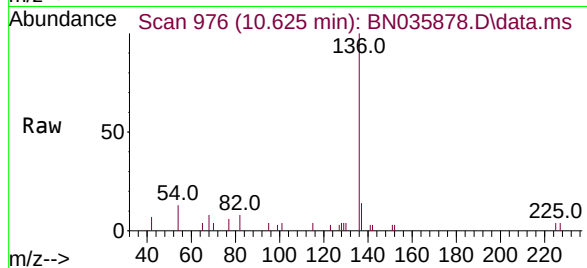




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.625 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

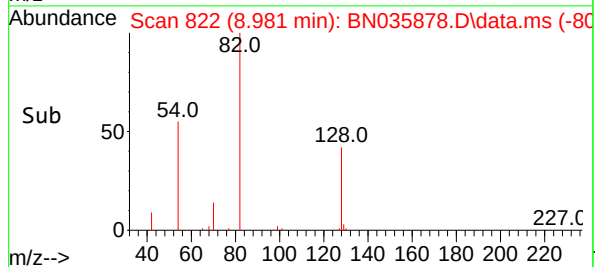
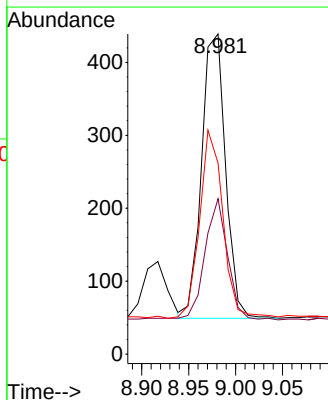
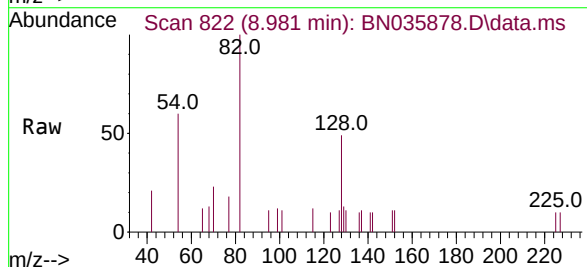
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

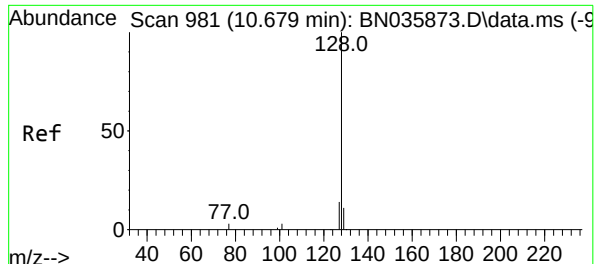
Tgt Ion:	136	Resp:	2204
Ion	Ratio	Lower	Upper
136	100		
137	14.0	10.6	15.8
54	13.1	9.8	14.6
68	8.4	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.398 ng
RT: 8.981 min Scan# 822
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion:	82	Resp:	694
Ion	Ratio	Lower	Upper
82	100		
128	48.5	36.9	55.3
54	59.7	50.4	75.6

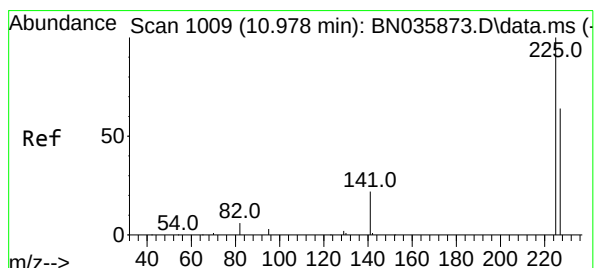
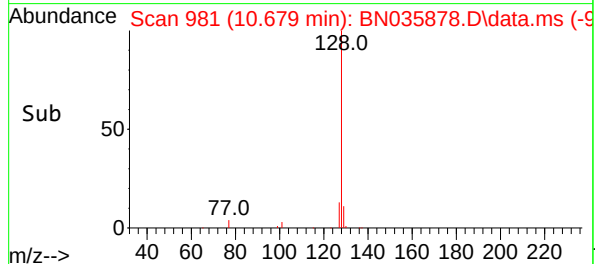
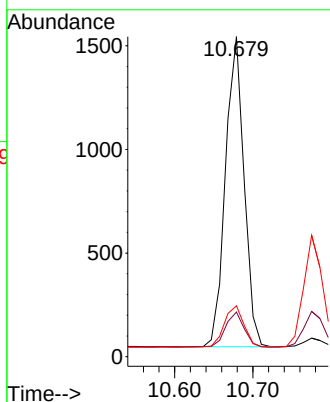
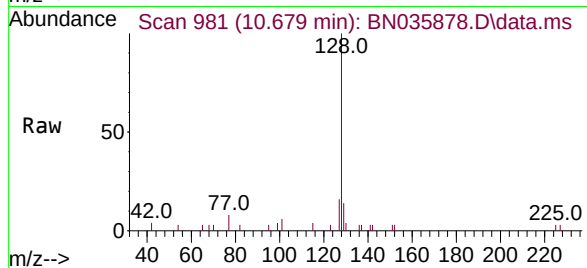




#9
Naphthalene
Concen: 0.399 ng
RT: 10.679 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

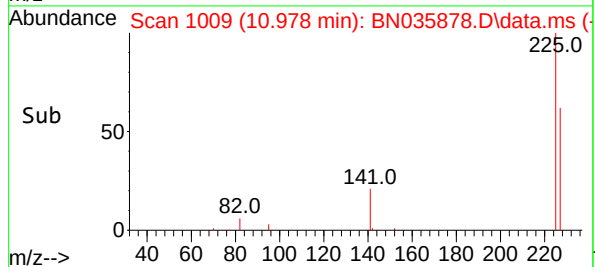
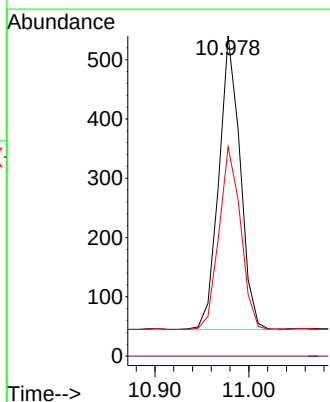
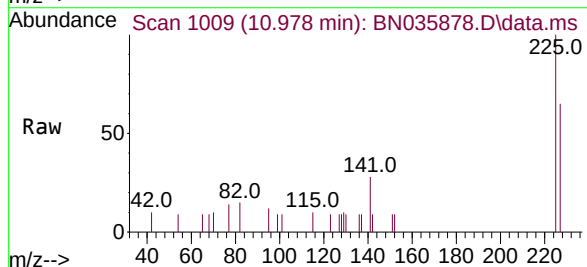
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

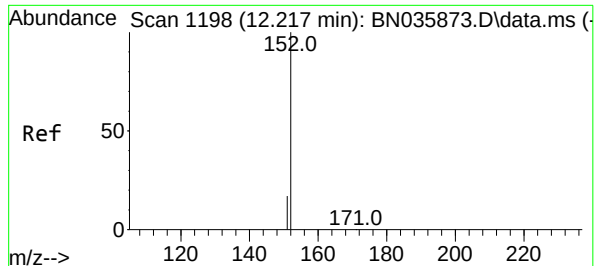
Tgt Ion:128 Resp: 2466
Ion Ratio Lower Upper
128 100
129 14.0 10.6 16.0
127 15.9 12.8 19.2



#10
Hexachlorobutadiene
Concen: 0.387 ng
RT: 10.978 min Scan# 1009
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion:225 Resp: 778
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.1 51.5 77.3

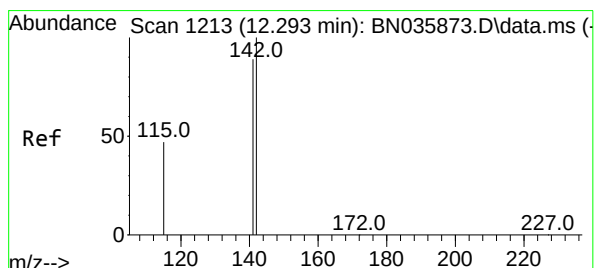
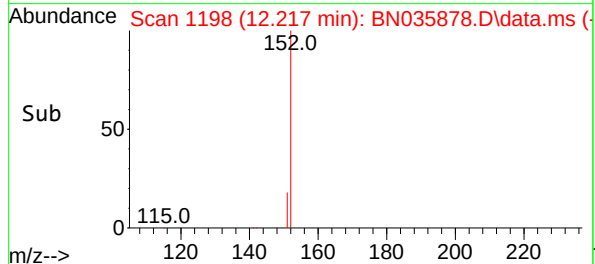
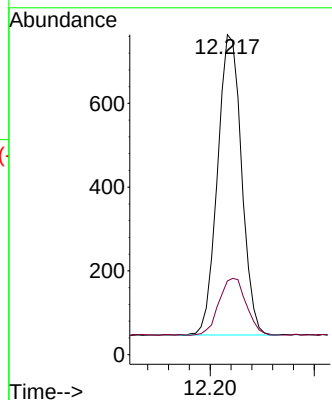
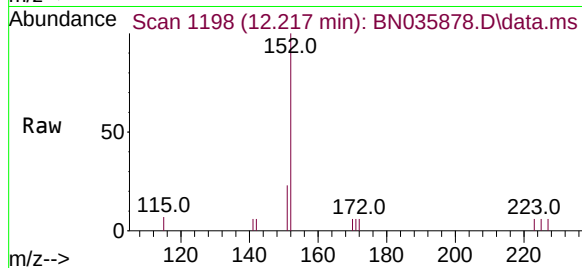




#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 12.217 min Scan# 1198
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

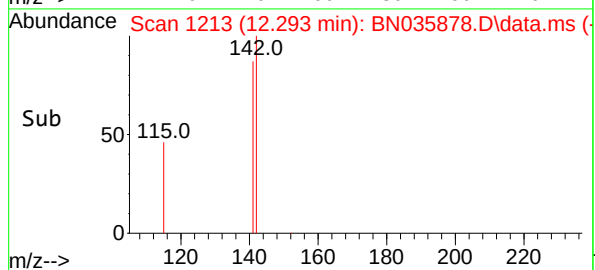
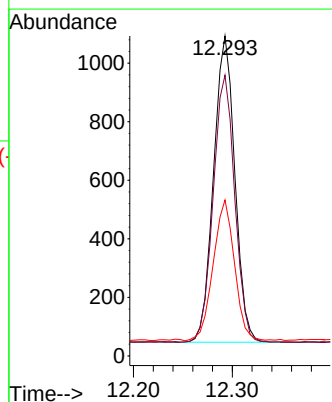
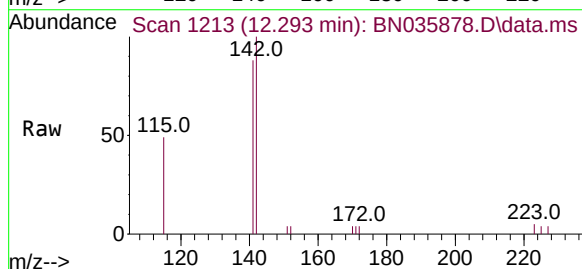
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

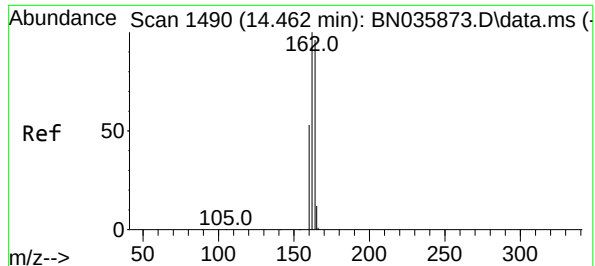
Tgt Ion:152 Resp: 1148
Ion Ratio Lower Upper
152 100
151 21.7 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.408 ng
RT: 12.293 min Scan# 1213
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion:142 Resp: 1561
Ion Ratio Lower Upper
142 100
141 87.7 71.9 107.9
115 48.8 39.6 59.4

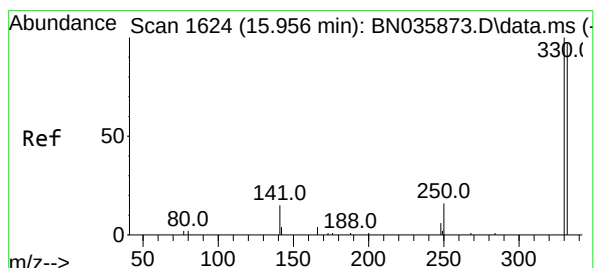
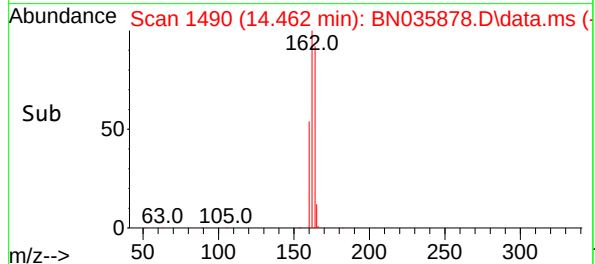
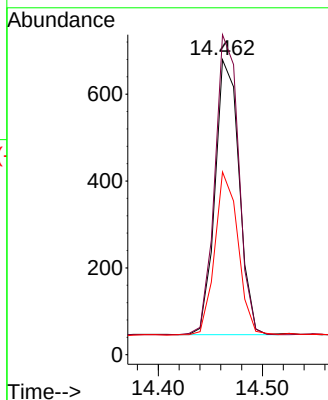
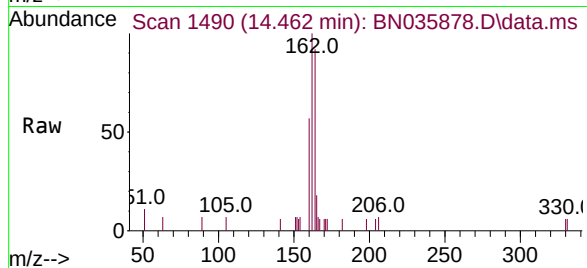




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.462 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

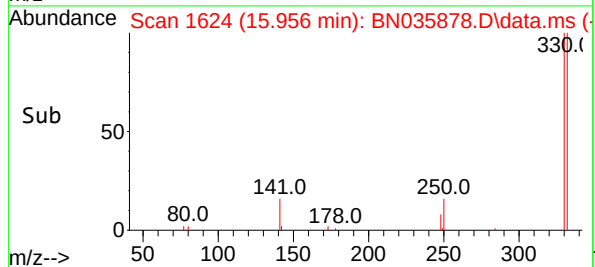
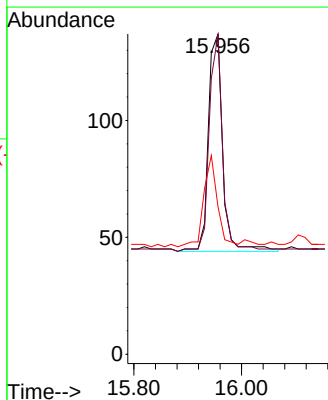
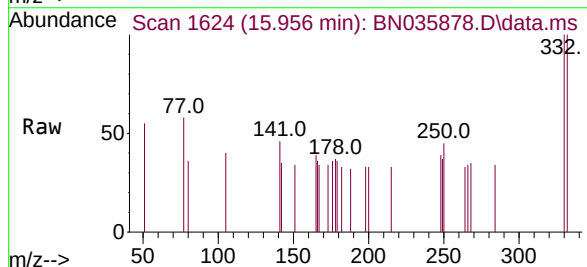
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

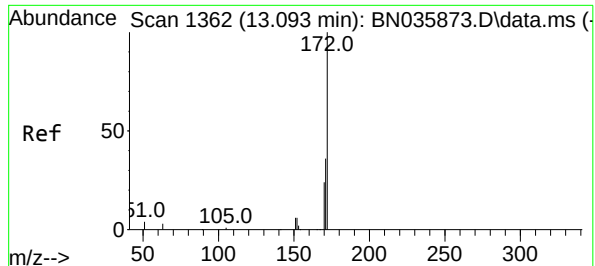
Tgt Ion	164	Resp	1019
Ion Ratio	Lower	Upper	
164	100		
162	108.5	83.1	124.7
160	62.0	46.0	69.0



#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.956 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion	330	Resp	171
Ion Ratio	Lower	Upper	
330	100		
332	93.0	77.2	115.8
141	40.4	31.6	47.4





#15

2-Fluorobiphenyl

Concen: 0.431 ng

RT: 13.093 min Scan# 1362

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

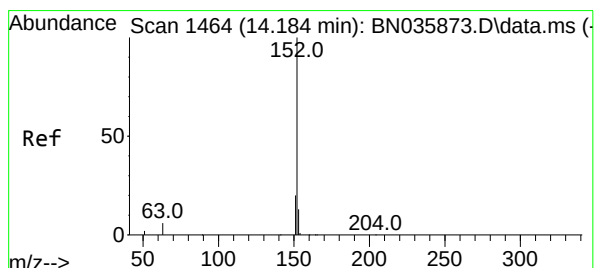
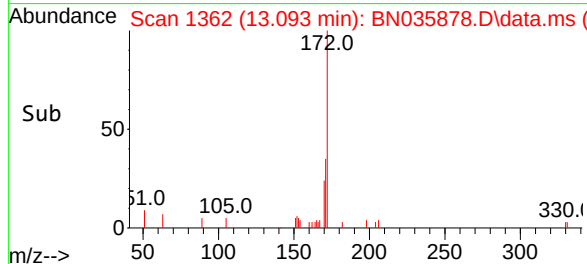
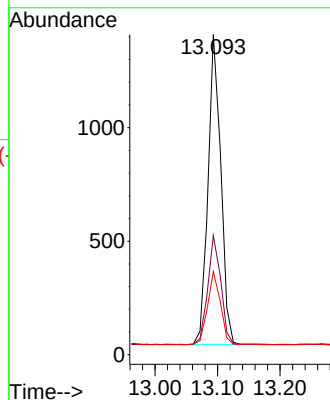
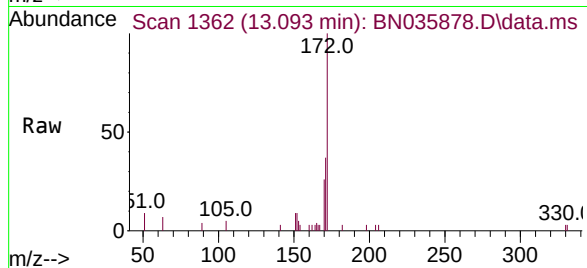
Tgt Ion:172 Resp: 1929

Ion Ratio Lower Upper

172 100

171 37.3 30.5 45.7

170 26.0 20.8 31.2



#16

Acenaphthylene

Concen: 0.452 ng

RT: 14.184 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

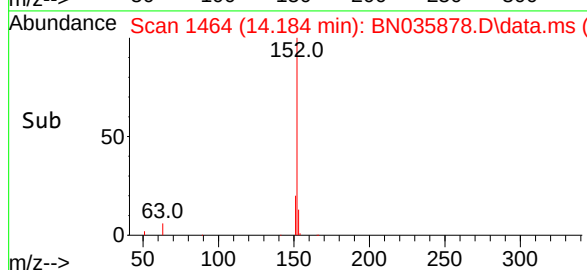
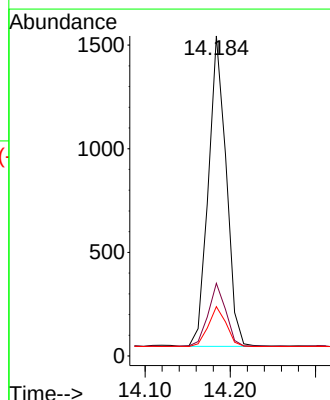
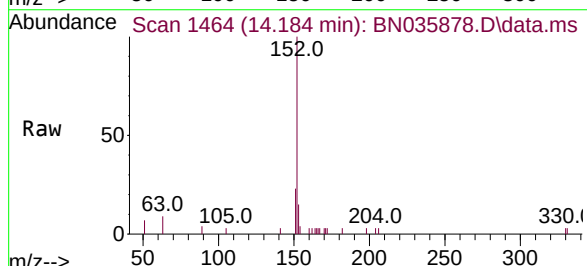
Tgt Ion:152 Resp: 2167

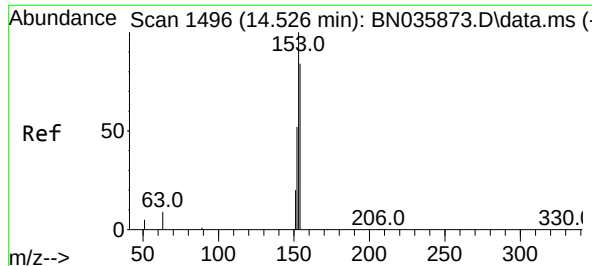
Ion Ratio Lower Upper

152 100

151 20.2 16.3 24.5

153 13.0 10.6 15.8

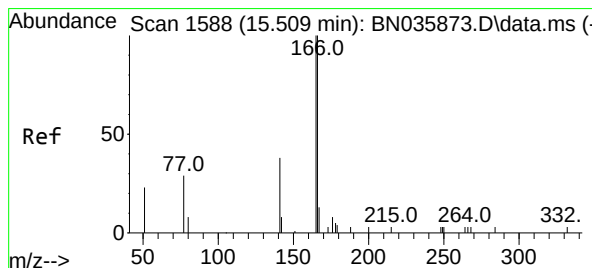
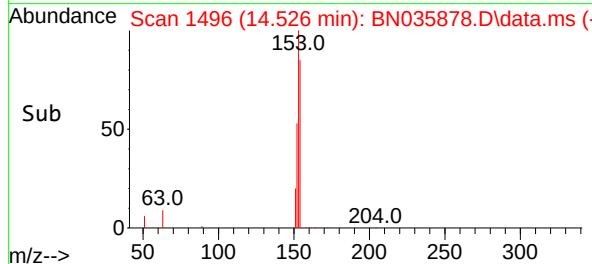
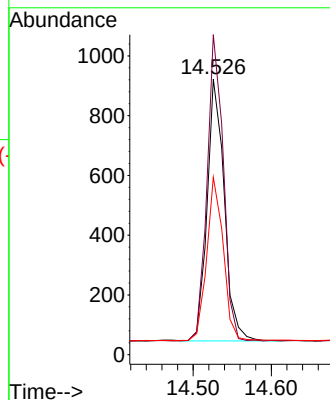
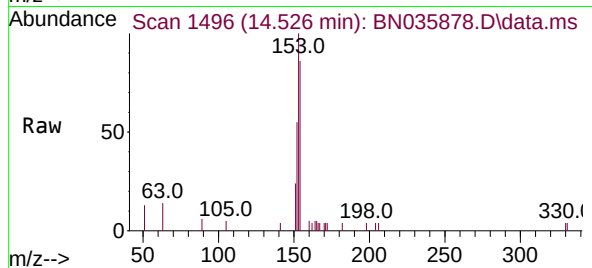




#17
Acenaphthene
Concen: 0.426 ng
RT: 14.526 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

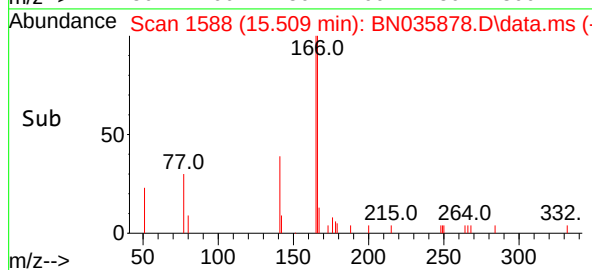
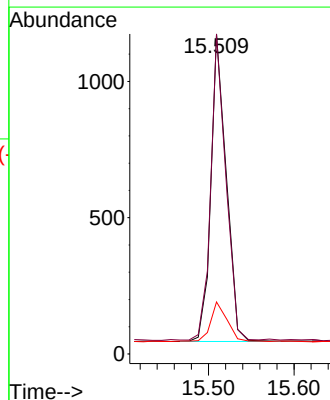
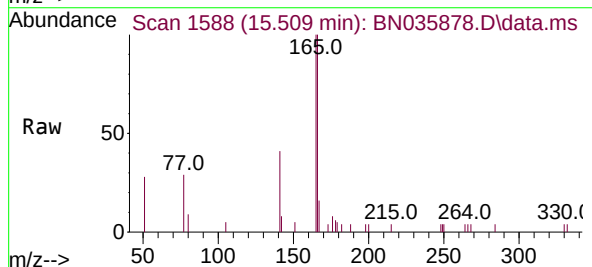
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

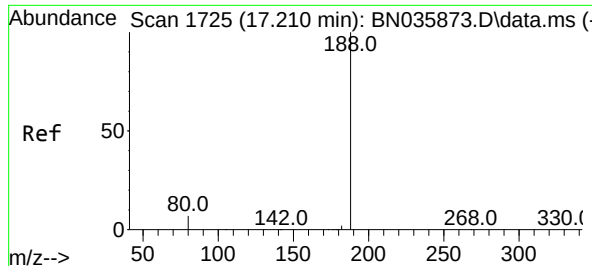
Tgt Ion	Ratio	Lower	Upper
154	100		
153	110.5	90.5	135.7
152	60.5	48.6	73.0



#18
Fluorene
Concen: 0.408 ng
RT: 15.509 min Scan# 1588
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.0	80.6	120.8
167	14.0	11.4	17.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

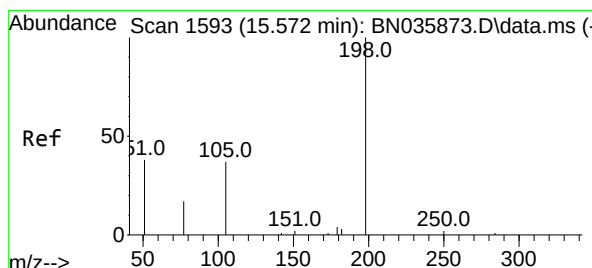
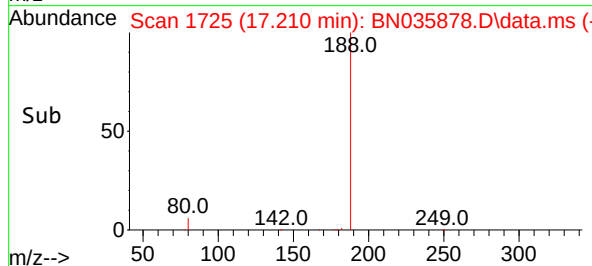
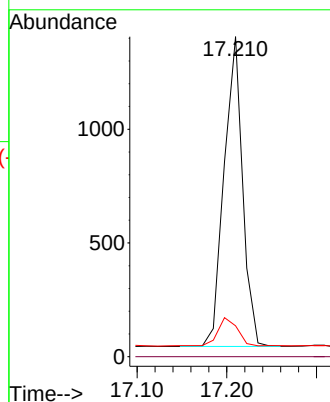
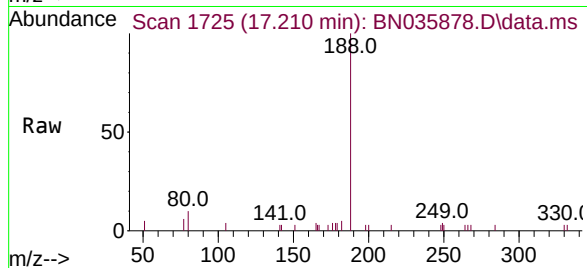
Tgt Ion:188 Resp: 1951

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.7 7.3 10.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.410 ng

RT: 15.571 min Scan# 1593

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

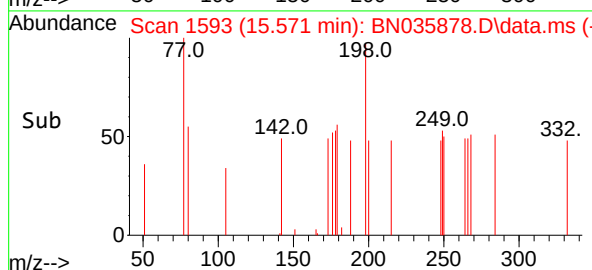
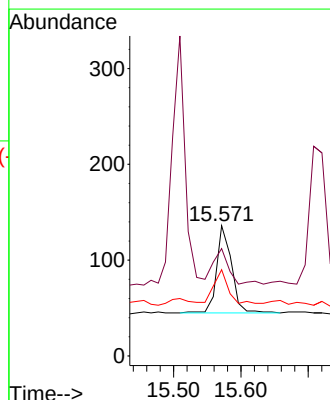
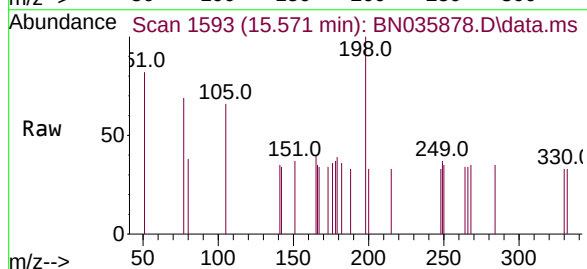
Tgt Ion:198 Resp: 139

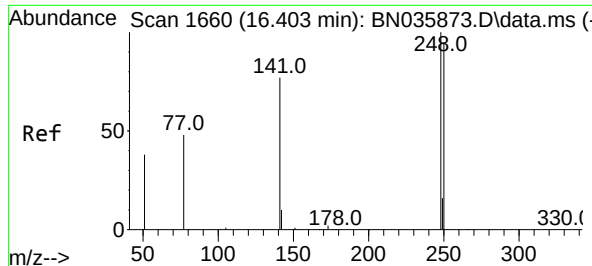
Ion Ratio Lower Upper

198 100

51 82.4 64.3 96.5

105 66.2 50.0 75.0

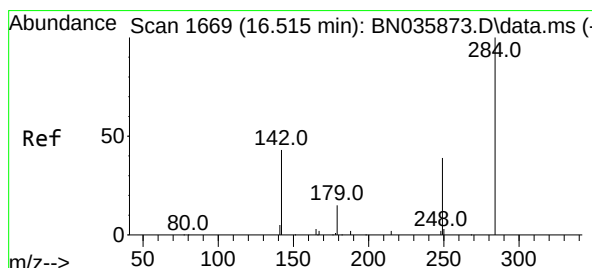
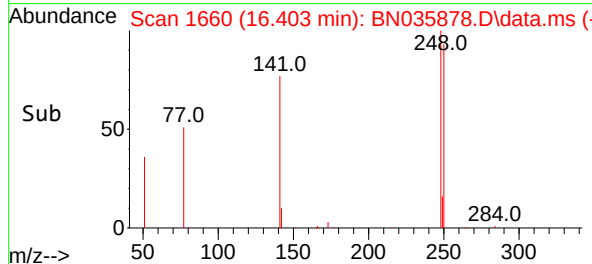
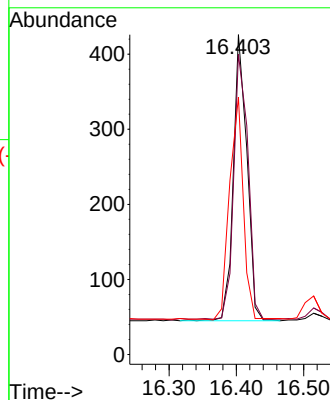
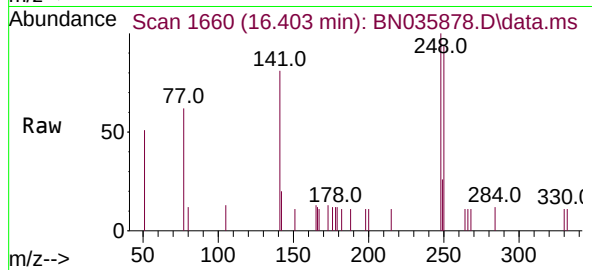




#21
4-Bromophenyl-phenylether
Concen: 0.398 ng
RT: 16.403 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

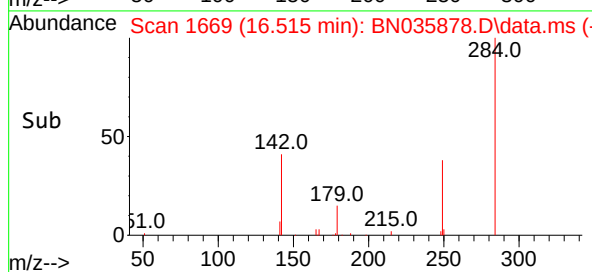
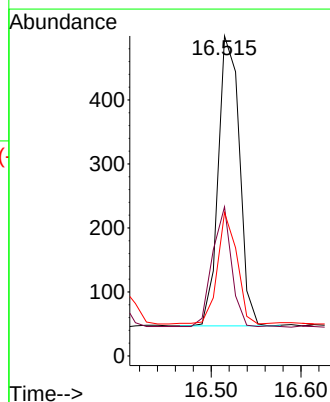
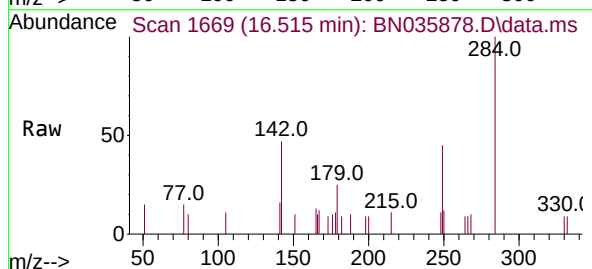
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

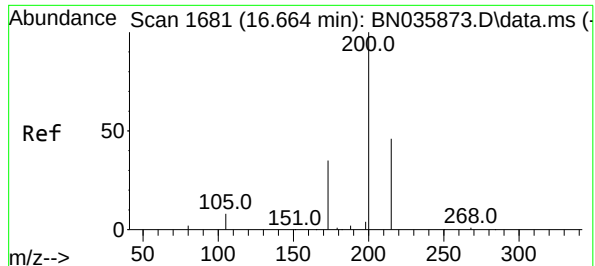
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.9	76.8	115.2
141	80.5	63.6	95.4



#22
Hexachlorobenzene
Concen: 0.407 ng
RT: 16.515 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.1	31.4	47.0
249	35.3	27.8	41.8

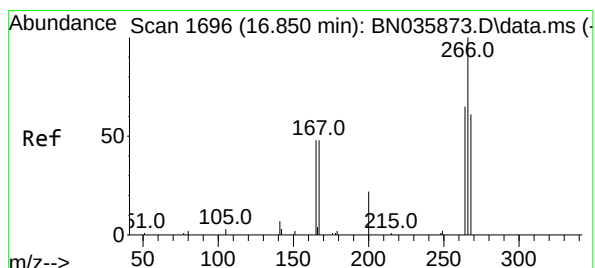
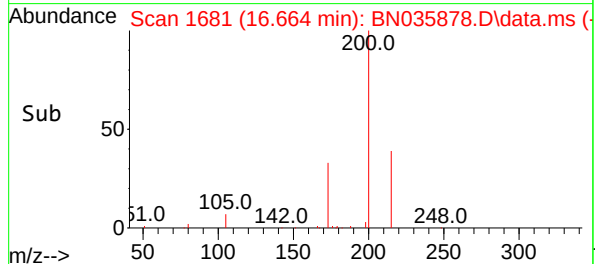
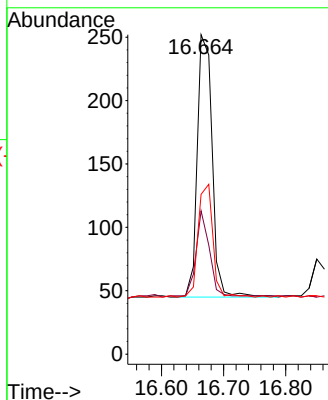
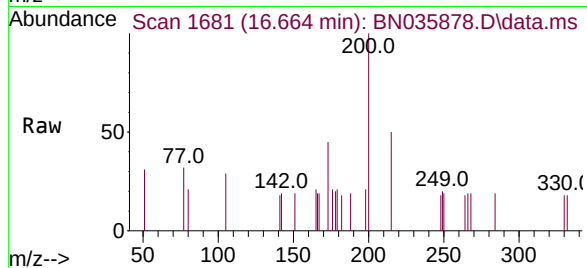




#23
Atrazine
Concen: 0.386 ng
RT: 16.664 min Scan# 1681
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

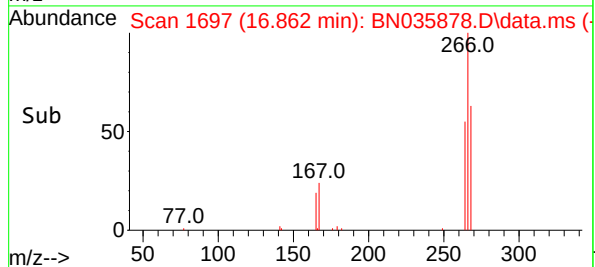
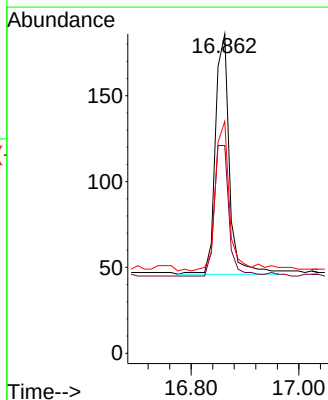
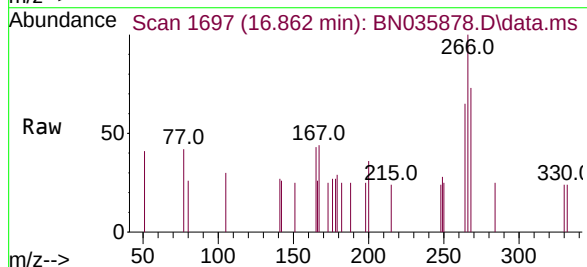
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

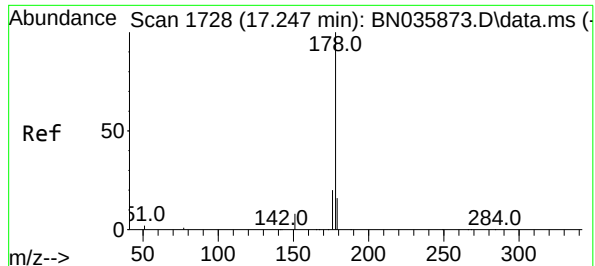
Tgt Ion	Ratio	Lower	Upper
200	100		
173	44.8	35.4	53.0
215	50.0	42.4	63.6



#24
Pentachlorophenol
Concen: 0.392 ng
RT: 16.862 min Scan# 1697
Delta R.T. 0.012 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion	Ratio	Lower	Upper
266	100		
264	56.1	49.9	74.9
268	60.9	50.2	75.2

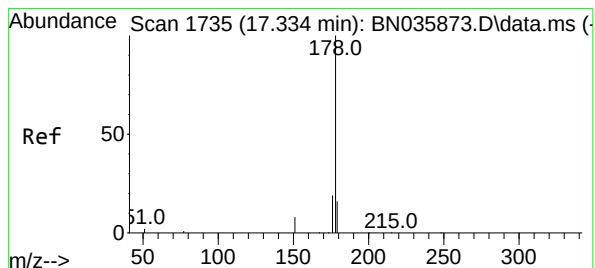
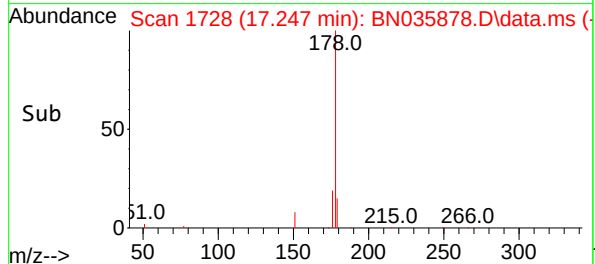
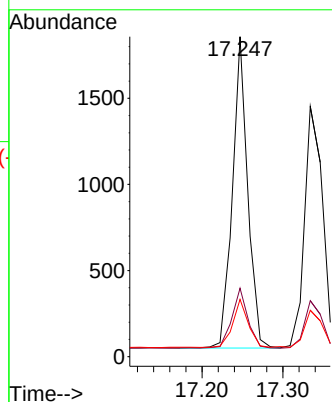
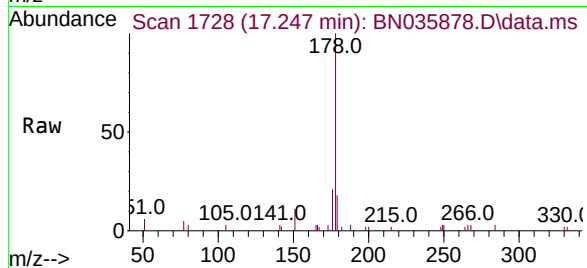




#25
Phenanthrene
Concen: 0.418 ng
RT: 17.247 min Scan# 1728
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

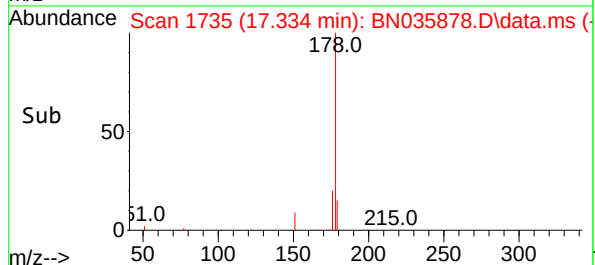
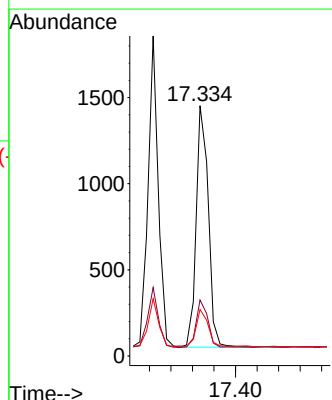
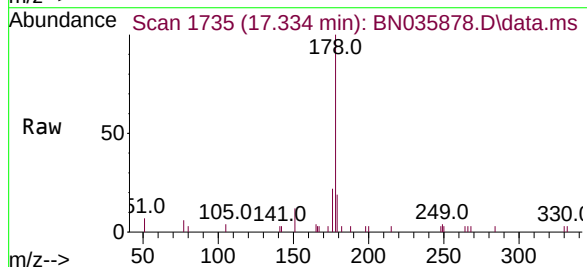
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

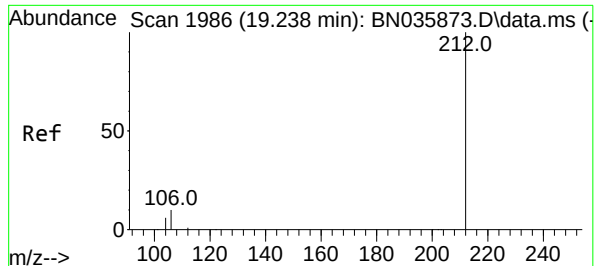
Tgt Ion:178 Resp: 2381
Ion Ratio Lower Upper
178 100
176 20.2 15.9 23.9
179 15.5 12.9 19.3



#26
Anthracene
Concen: 0.424 ng
RT: 17.334 min Scan# 1735
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion:178 Resp: 2196
Ion Ratio Lower Upper
178 100
176 19.4 15.0 22.6
179 15.2 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.382 ng

RT: 19.238 min Scan# 1986

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

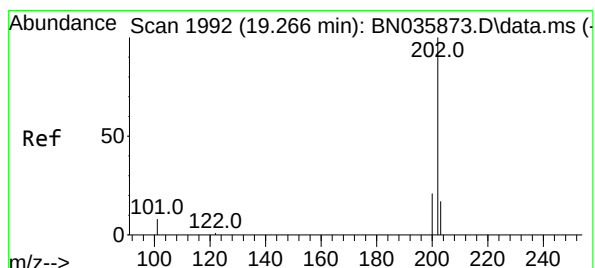
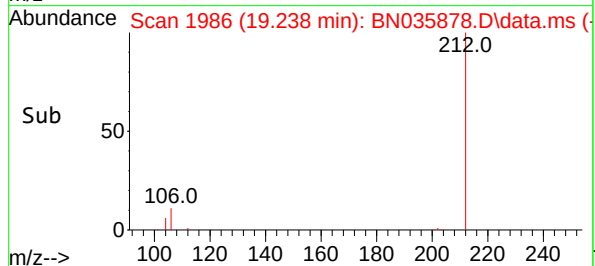
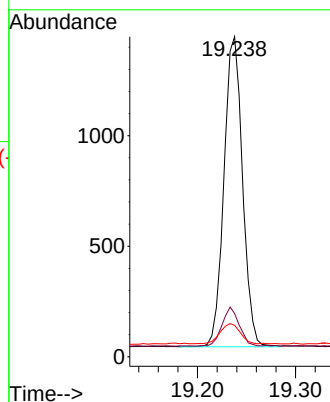
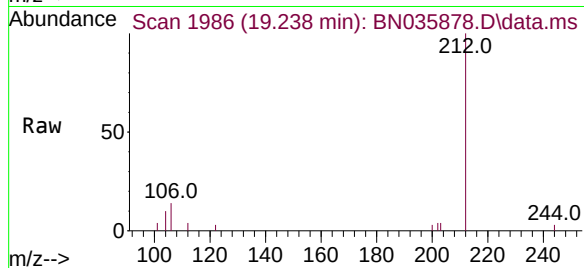
Tgt Ion:212 Resp: 1850

Ion Ratio Lower Upper

212 100

106 11.5 9.0 13.6

104 7.1 5.4 8.2



#28

Fluoranthene

Concen: 0.381 ng

RT: 19.266 min Scan# 1992

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

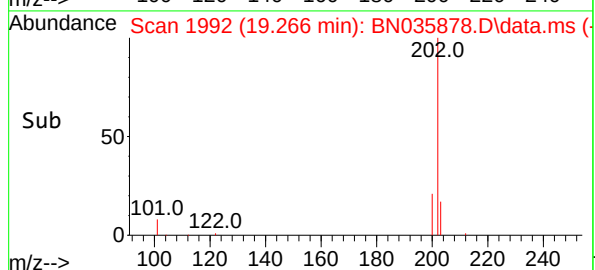
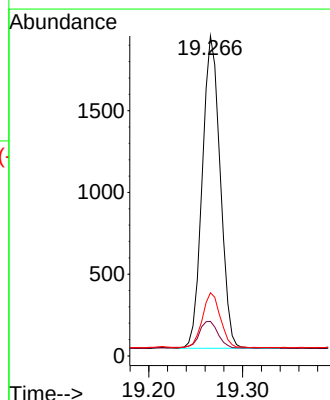
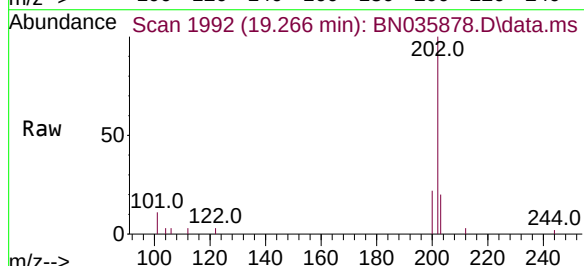
Tgt Ion:202 Resp: 2530

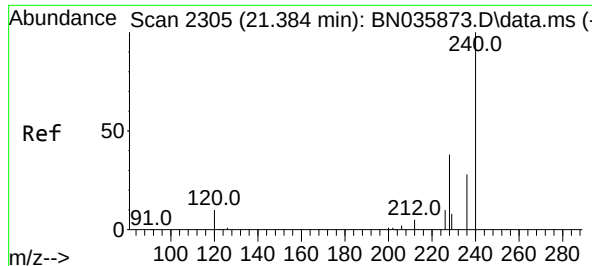
Ion Ratio Lower Upper

202 100

101 9.2 7.2 10.8

203 17.6 13.9 20.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

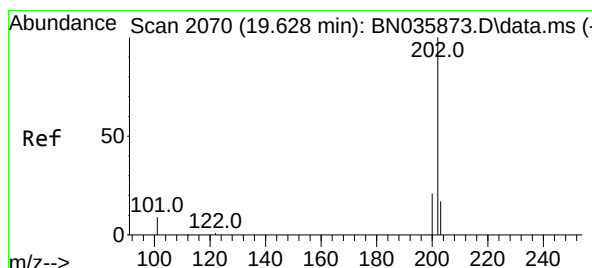
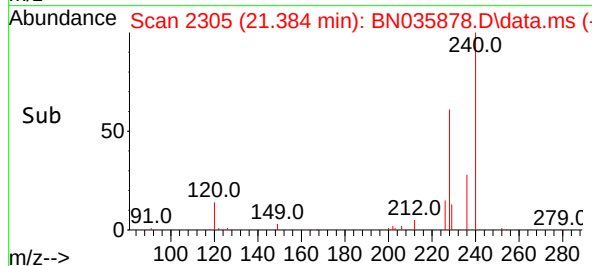
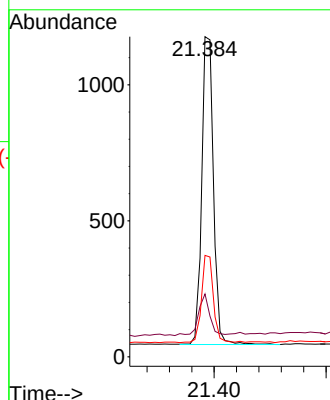
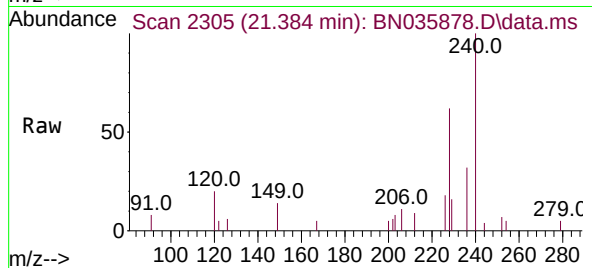
Tgt Ion:240 Resp: 1648

Ion Ratio Lower Upper

240 100

120 19.6 11.1 16.7#

236 31.7 24.6 36.8



#30

Pyrene

Concen: 0.391 ng

RT: 19.628 min Scan# 2070

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

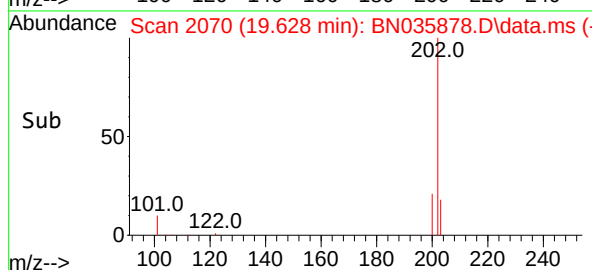
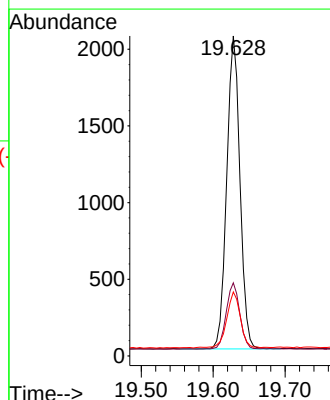
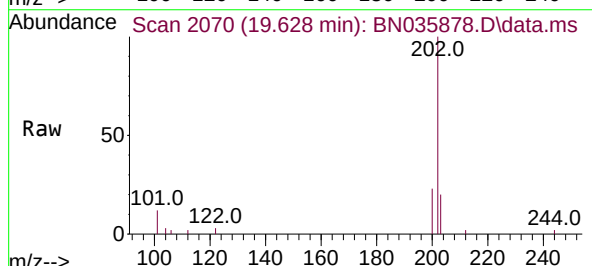
Tgt Ion:202 Resp: 2613

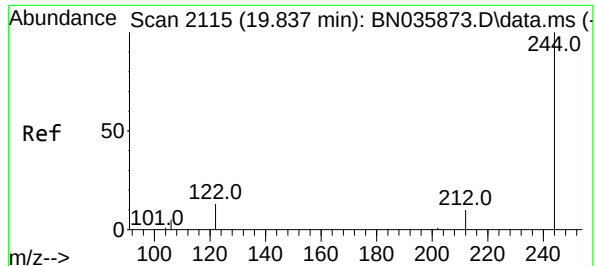
Ion Ratio Lower Upper

202 100

200 21.6 17.0 25.6

203 18.5 14.6 22.0

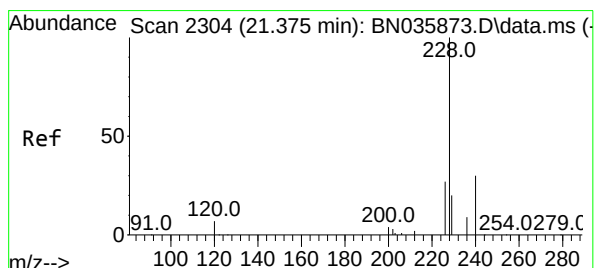
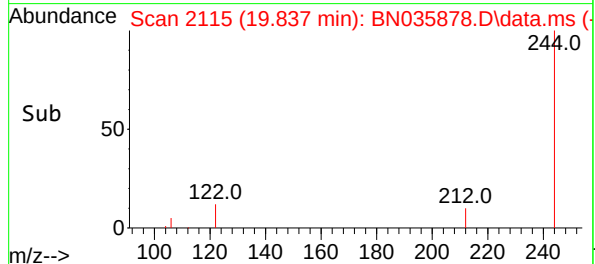
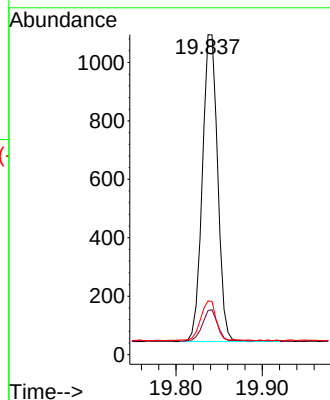
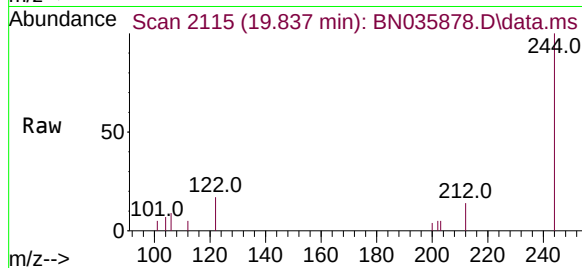




#31
Terphenyl-d14
Concen: 0.393 ng
RT: 19.837 min Scan# 2115
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

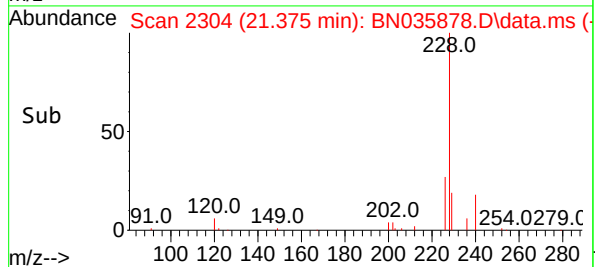
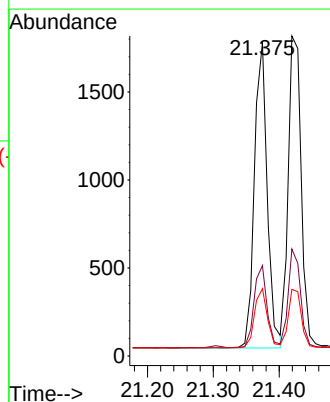
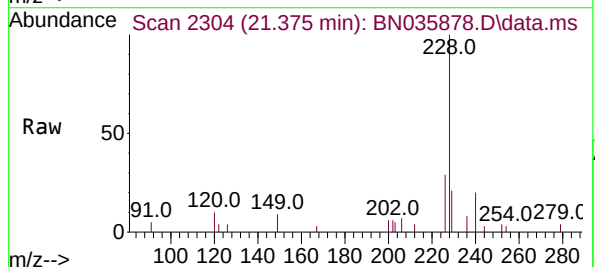
Instrument :
BNA_N
ClientSampleId :
ICVBN010225

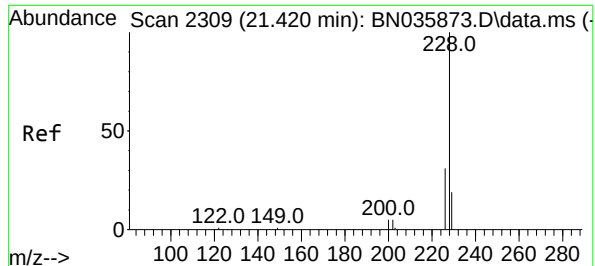
Tgt Ion	Ratio	Lower	Upper
244	100		
212	13.8	10.1	15.1
122	16.8	12.2	18.4



#32
Benzo(a)anthracene
Concen: 0.405 ng
RT: 21.375 min Scan# 2304
Delta R.T. -0.000 min
Lab File: BN035878.D
Acq: 02 Jan 2025 15:51

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.7	34.1
229	21.4	17.1	25.7





#33

Chrysene

Concen: 0.402 ng

RT: 21.419 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

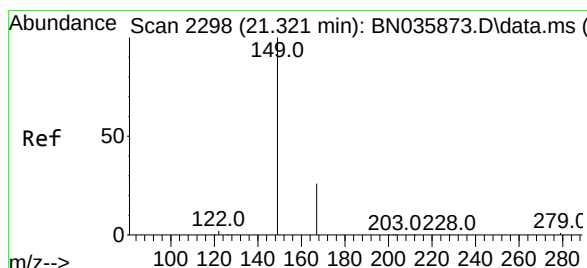
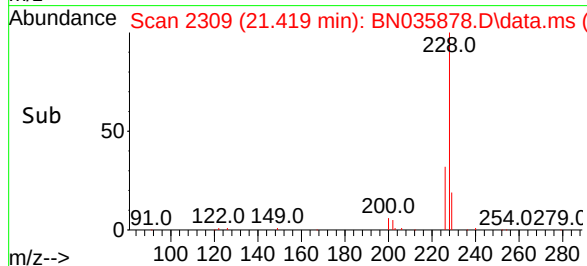
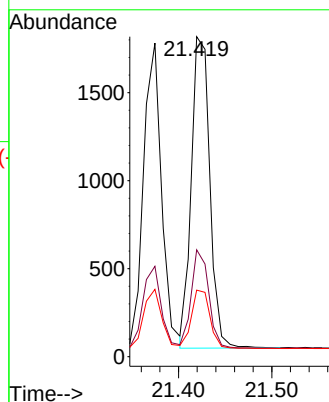
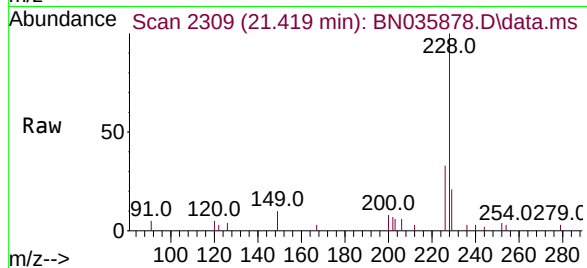
Tgt Ion:228 Resp: 2440

Ion Ratio Lower Upper

228 100

226 33.4 25.2 37.8

229 20.8 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.393 ng

RT: 21.330 min Scan# 2299

Delta R.T. 0.009 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

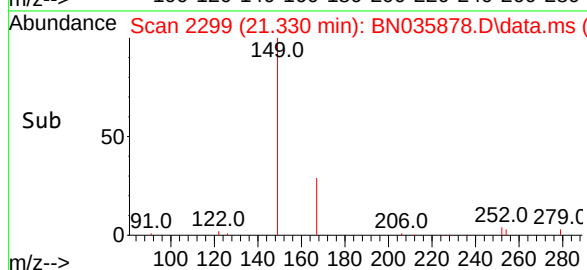
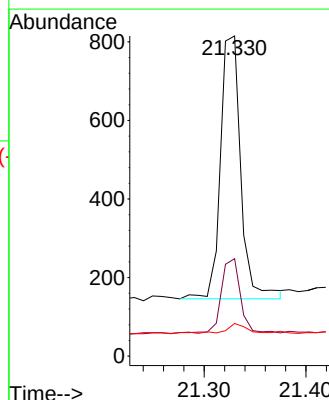
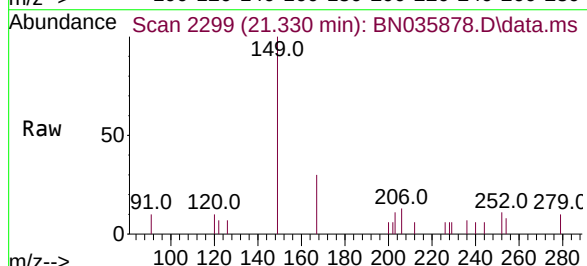
Tgt Ion:149 Resp: 930

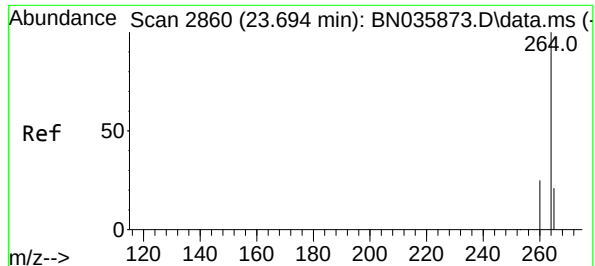
Ion Ratio Lower Upper

149 100

167 26.9 21.4 32.0

279 3.4 3.0 4.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.697 min Scan# 2

Delta R.T. 0.003 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

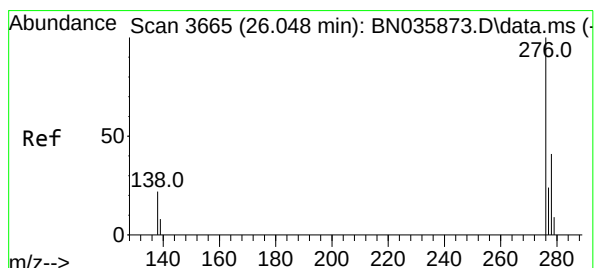
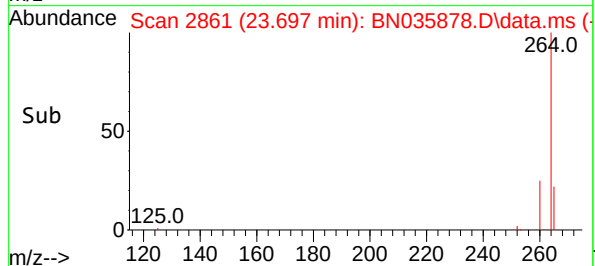
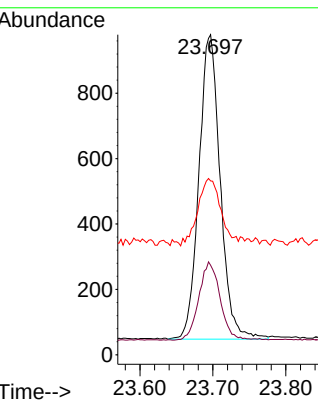
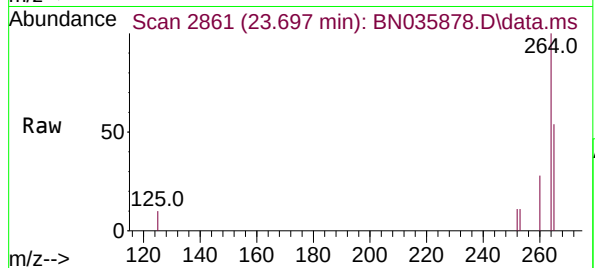
Tgt Ion:264 Resp: 1887

Ion Ratio Lower Upper

264 100

260 28.0 21.7 32.5

265 54.3 33.9 50.9#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.399 ng

RT: 26.050 min Scan# 3666

Delta R.T. 0.003 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

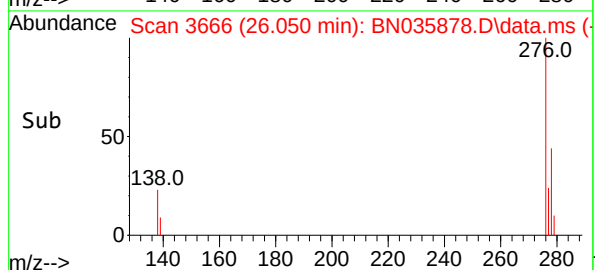
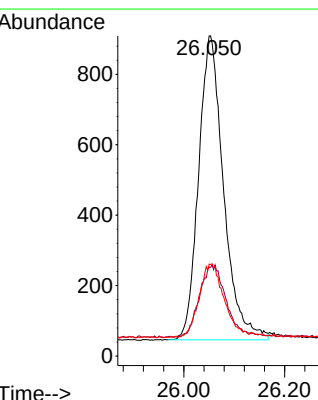
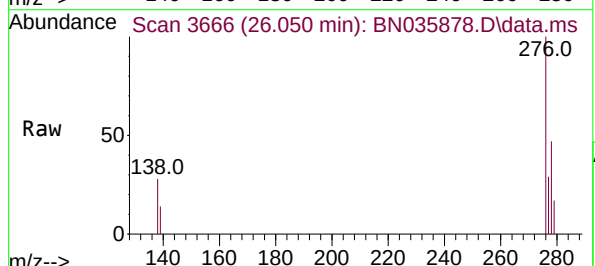
Tgt Ion:276 Resp: 2972

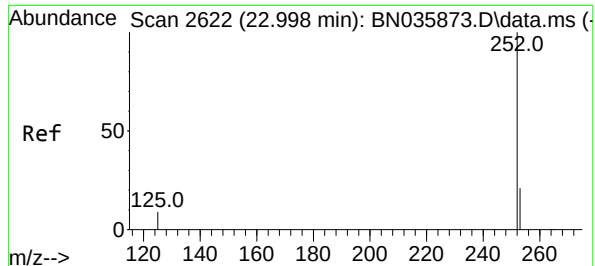
Ion Ratio Lower Upper

276 100

138 25.6 18.9 28.3

277 24.0 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.372 ng

RT: 23.001 min Scan# 2623

Delta R.T. 0.003 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

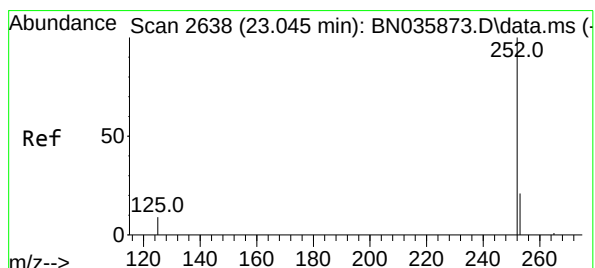
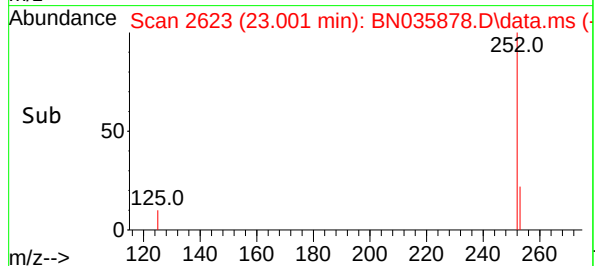
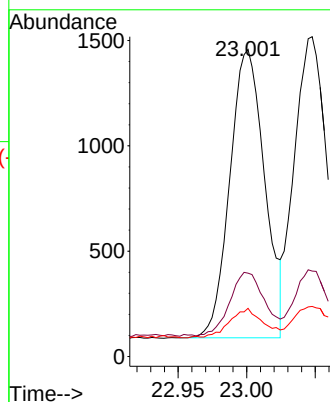
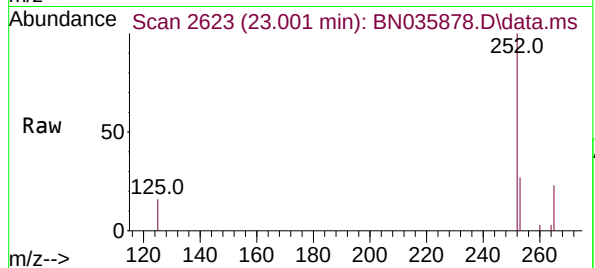
Tgt Ion:252 Resp: 2413

Ion Ratio Lower Upper

252 100

253 27.2 20.1 30.1

125 15.7 9.9 14.9#



#38

Benzo(k)fluoranthene

Concen: 0.381 ng

RT: 23.048 min Scan# 2639

Delta R.T. 0.003 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

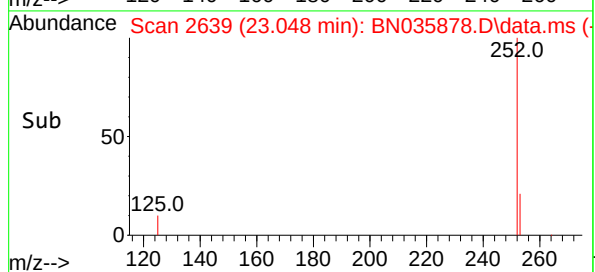
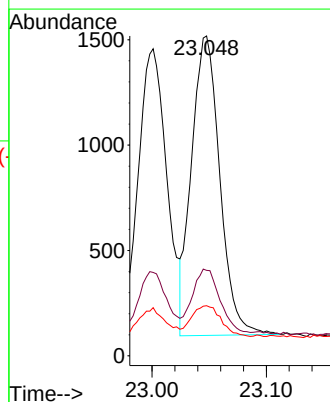
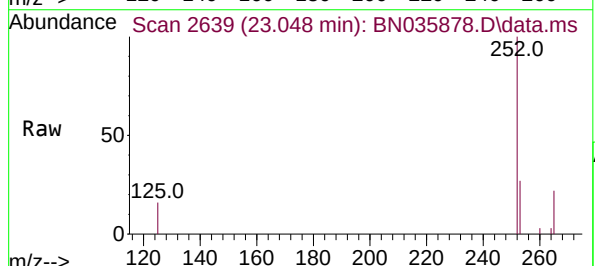
Tgt Ion:252 Resp: 2442

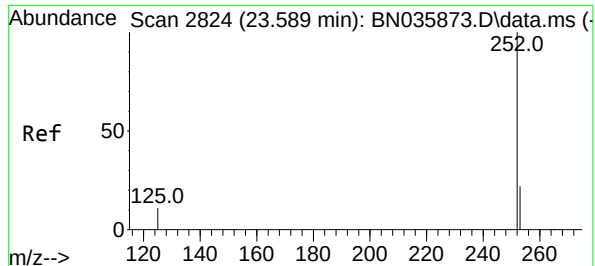
Ion Ratio Lower Upper

252 100

253 26.7 20.5 30.7

125 15.7 10.6 16.0





#39

Benzo(a)pyrene

Concen: 0.401 ng

RT: 23.594 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225

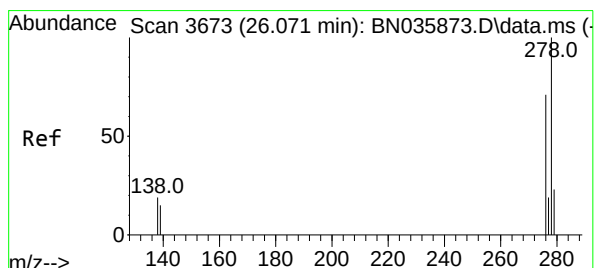
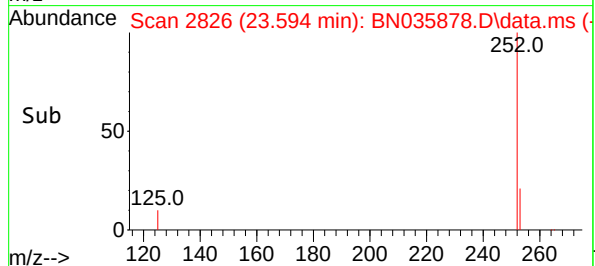
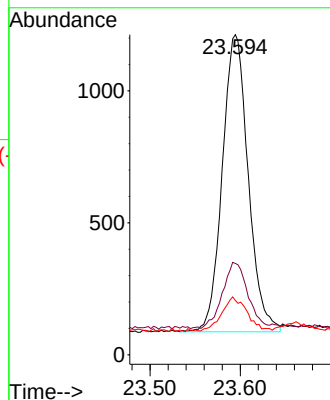
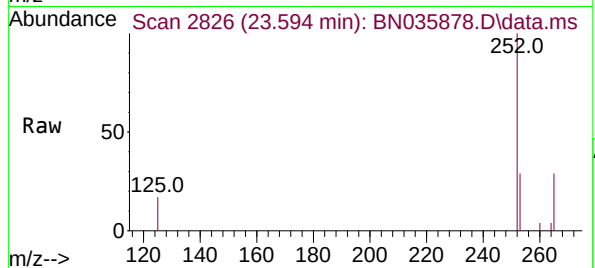
Tgt Ion:252 Resp: 2250

Ion Ratio Lower Upper

252 100

253 28.5 21.5 32.3

125 17.0 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.397 ng

RT: 26.074 min Scan# 3674

Delta R.T. 0.003 min

Lab File: BN035878.D

Acq: 02 Jan 2025 15:51

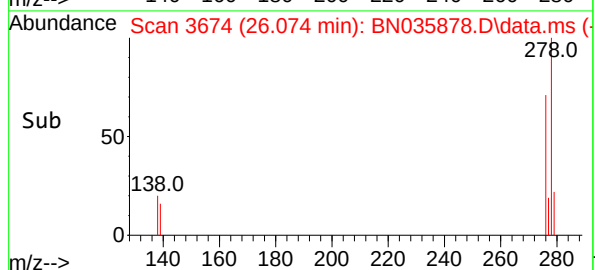
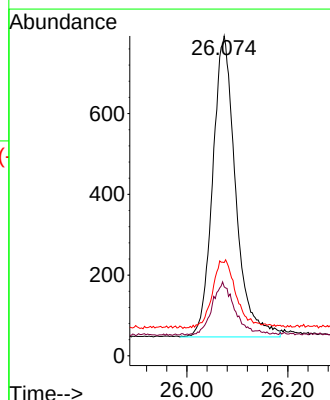
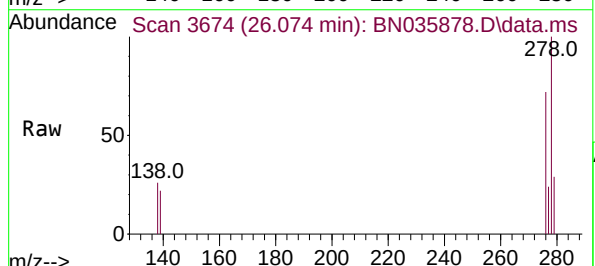
Tgt Ion:278 Resp: 2353

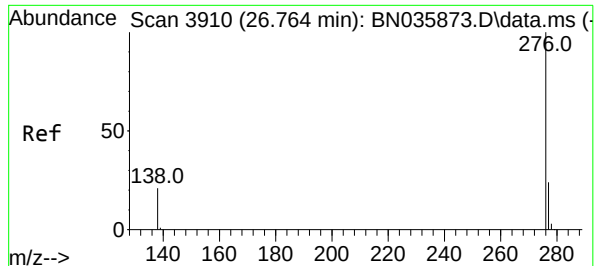
Ion Ratio Lower Upper

278 100

139 21.6 15.9 23.9

279 29.2 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.359 ng

RT: 26.767 min Scan# 3911

Delta R.T. 0.003 min

Lab File: BN035878.D

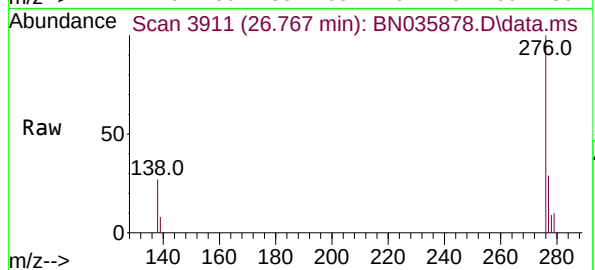
Acq: 02 Jan 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN010225



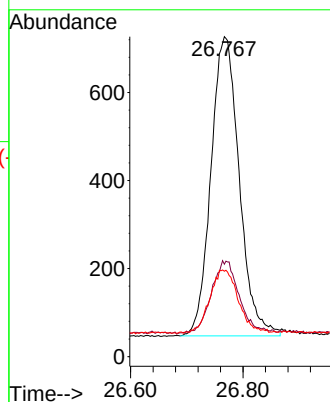
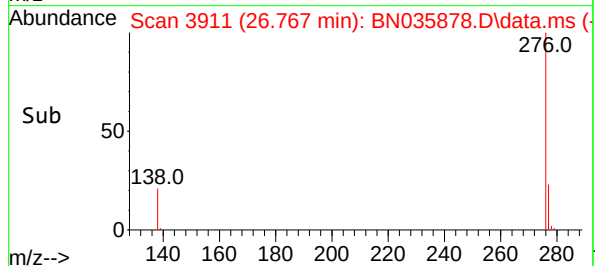
Tgt Ion:276 Resp: 2378

Ion Ratio Lower Upper

276 100

277 28.9 22.8 34.2

138 26.7 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035878.D
Acq On : 02 Jan 2025 15:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN010225

Quant Time: Jan 02 16:21:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
2	1,4-Dioxane	0.397	0.468	-17.9	111	0.00
3	n-Nitrosodimethylamine	0.693	0.725	-4.6	94	0.00
4 S	2-Fluorophenol	0.981	0.840	14.4	78	0.00
5 S	Phenol-d6	1.219	1.011	17.1	75	0.00
6	bis(2-Chloroethyl)ether	0.929	0.967	-4.1	91	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	85	0.00
8 S	Nitrobenzene-d5	0.317	0.315	0.6	91	0.00
9	Naphthalene	1.123	1.119	0.4	88	0.00
10	Hexachlorobutadiene	0.365	0.353	3.3	85	0.00
11 SURR	2-Methylnaphthalene-d10	0.536	0.521	2.8	84	0.00
12	2-Methylnaphthalene	0.695	0.708	-1.9	88	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	75	0.00
14 S	2,4,6-Tribromophenol	0.192	0.168	12.5	67	0.00
15 S	2-Fluorobiphenyl	1.755	1.893	-7.9	83	0.00
16	Acenaphthylene	1.884	2.127	-12.9	88	0.00
17	Acenaphthene	1.235	1.316	-6.6	82	0.00
18	Fluorene	1.359	1.386	-2.0	80	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	70	0.00
20	4,6-Dinitro-2-methylphenol	0.069	0.071	-2.9	75	0.00
21	4-Bromophenyl-phenylether	0.274	0.273	0.4	72	0.00
22	Hexachlorobenzene	0.374	0.381	-1.9	75	0.00
23	Atrazine	0.184	0.177	3.8	71	0.00
24	Pentachlorophenol	0.132	0.130	1.5	77	0.01
25	Phenanthrene	1.167	1.220	-4.5	75	0.00
26	Anthracene	1.062	1.126	-6.0	79	0.00
27 SURR	Fluoranthene-d10	0.993	0.948	4.5	68	0.00
28	Fluoranthene	1.361	1.297	4.7	69	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	69	0.00
30	Pyrene	1.624	1.586	2.3	70	0.00
31 S	Terphenyl-d14	0.797	0.783	1.8	69	0.00
32	Benzo(a)anthracene	1.410	1.428	-1.3	74	0.00
33	Chrysene	1.475	1.481	-0.4	71	0.00
34	Bis(2-ethylhexyl)phthalate	0.574	0.564	1.7	67	0.00
35 I	Perylene-d12	1.000	1.000	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	1.577	1.575	0.1	80	0.00
37	Benzo(b)fluoranthene	1.374	1.279	6.9	71	0.00
38	Benzo(k)fluoranthene	1.360	1.294	4.9	74	0.00
39 C	Benzo(a)pyrene	1.190	1.192	-0.2	79	0.00
40	Dibenzo(a,h)anthracene	1.255	1.247	0.6	81	0.00
41	Benzo(g,h,i)perylene	1.403	1.260	10.2	73	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
 Data File : BN035878.D
 Acq On : 02 Jan 2025 15:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN010225

Quant Time: Jan 02 16:21:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	88	0.00
2	1,4-Dioxane	0.400	0.471	-17.7	111	0.00
3	n-Nitrosodimethylamine	0.400	0.419	-4.7	94	0.00
4 S	2-Fluorophenol	0.400	0.342	14.5	78	0.00
5 S	Phenol-d6	0.400	0.332	17.0	75	0.00
6	bis(2-Chloroethyl)ether	0.400	0.416	-4.0	91	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	85	0.00
8 S	Nitrobenzene-d5	0.400	0.398	0.5	91	0.00
9	Naphthalene	0.400	0.399	0.3	88	0.00
10	Hexachlorobutadiene	0.400	0.387	3.3	85	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.389	2.8	84	0.00
12	2-Methylnaphthalene	0.400	0.408	-2.0	88	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	75	0.00
14 S	2,4,6-Tribromophenol	0.400	0.350	12.5	67	0.00
15 S	2-Fluorobiphenyl	0.400	0.431	-7.7	83	0.00
16	Acenaphthylene	0.400	0.452	-13.0	88	0.00
17	Acenaphthene	0.400	0.426	-6.5	82	0.00
18	Fluorene	0.400	0.408	-2.0	80	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	70	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.410	-2.5	75	0.00
21	4-Bromophenyl-phenylether	0.400	0.398	0.5	72	0.00
22	Hexachlorobenzene	0.400	0.407	-1.7	75	0.00
23	Atrazine	0.400	0.386	3.5	71	0.00
24	Pentachlorophenol	0.400	0.392	2.0	77	0.01
25	Phenanthrene	0.400	0.418	-4.5	75	0.00
26	Anthracene	0.400	0.424	-6.0	79	0.00
27 SURR	Fluoranthene-d10	0.400	0.382	4.5	68	0.00
28	Fluoranthene	0.400	0.381	4.8	69	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	69	0.00
30	Pyrene	0.400	0.391	2.3	70	0.00
31 S	Terphenyl-d14	0.400	0.393	1.8	69	0.00
32	Benzo(a)anthracene	0.400	0.405	-1.3	74	0.00
33	Chrysene	0.400	0.402	-0.5	71	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.393	1.8	67	0.00
35 I	Perylene-d12	0.400	0.400	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.399	0.3	80	0.00
37	Benzo(b)fluoranthene	0.400	0.372	7.0	71	0.00
38	Benzo(k)fluoranthene	0.400	0.381	4.8	74	0.00
39 C	Benzo(a)pyrene	0.400	0.401	-0.3	79	0.00
40	Dibenzo(a,h)anthracene	0.400	0.397	0.8	81	0.00
41	Benzo(g,h,i)perylene	0.400	0.359	10.3	73	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.: Q1081 SAS No.: Q1081 SDG No.: Q1081

Instrument ID: BNA_N Calibration Date/Time: 01/15/2025 10:27

Lab File ID: BN035926.D Init. Calib. Date(s): 01/02/2025 01/02/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:28 15:04

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.536	0.500		-6.7	20.0
Fluoranthene-d10	0.993	0.980		-1.3	20.0
2-Fluorophenol	0.981	0.948		-3.4	20.0
Phenol-d6	1.219	1.144		-6.2	20.0
Nitrobenzene-d5	0.317	0.371		17.0	20.0
2-Fluorobiphenyl	1.755	1.743		-0.7	20.0
2,4,6-Tribromophenol	0.192	0.238		24.0	20.0
Terphenyl-d14	0.797	0.752		-5.6	20.0
1,4-Dioxane	0.397	0.422		6.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
 Data File : BN035926.D
 Acq On : 15 Jan 2025 10:27
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Jan 15 11:50:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

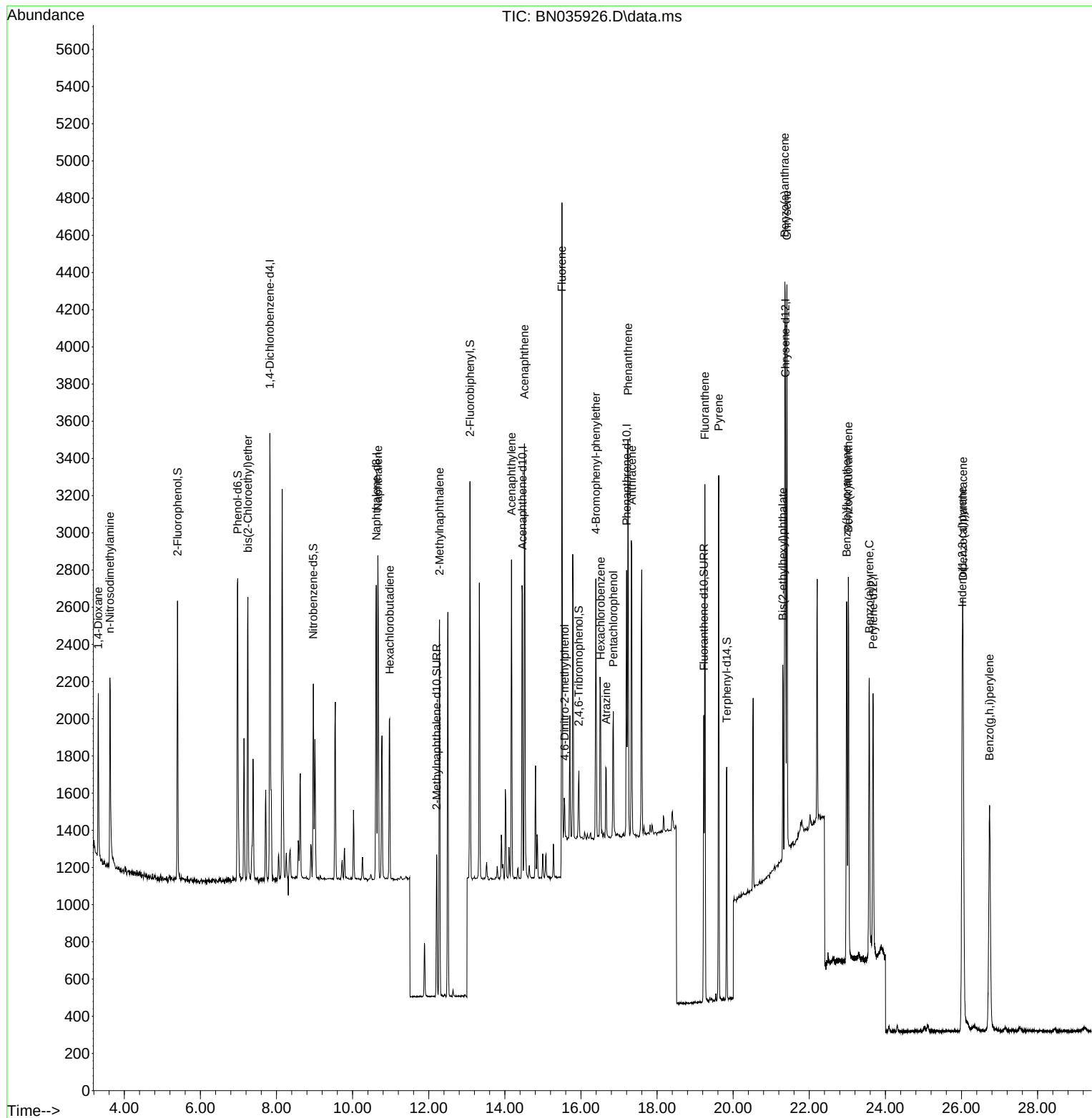
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.824	152	1122	0.400	ng	-0.01
7) Naphthalene-d8	10.622	136	1996	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	954	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1813	0.400	ng	-0.01
29) Chrysene-d12	21.376	240	1614	0.400	ng	0.00
35) Perylene-d12	23.677	264	1998	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.398	112	1064	0.387	ng	-0.01
5) Phenol-d6	6.979	99	1284	0.376	ng	0.00
8) Nitrobenzene-d5	8.967	82	740	0.468	ng	-0.01
11) 2-Methylnaphthalene-d10	12.208	152	998	0.373	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	227	0.496	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	1663	0.397	ng	0.00
27) Fluoranthene-d10	19.230	212	1777	0.395	ng	0.00
31) Terphenyl-d14	19.829	244	1214	0.377	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.318	88	474	0.425	ng	Qvalue 95
3) n-Nitrosodimethylamine	3.621	42	933	0.480	ng	91
6) bis(2-Chloroethyl)ether	7.246	93	1004	0.385	ng	98
9) Naphthalene	10.664	128	2169	0.387	ng	99
10) Hexachlorobutadiene	10.974	225	738	0.406	ng	# 99
12) 2-Methylnaphthalene	12.284	142	1300	0.375	ng	97
16) Acenaphthylene	14.174	152	1740	0.387	ng	99
17) Acenaphthene	14.516	154	1185	0.402	ng	95
18) Fluorene	15.500	166	1235	0.381	ng	97
20) 4,6-Dinitro-2-methylph...	15.573	198	204	0.648	ng	# 84
21) 4-Bromophenyl-phenylether	16.392	248	503	0.405	ng	93
22) Hexachlorobenzene	16.516	284	655	0.386	ng	94
23) Atrazine	16.665	200	347	0.416	ng	# 92
24) Pentachlorophenol	16.851	266	389	0.648	ng	99
25) Phenanthrene	17.236	178	2042	0.386	ng	100
26) Anthracene	17.335	178	1902	0.395	ng	98
28) Fluoranthene	19.258	202	2431	0.394	ng	98
30) Pyrene	19.620	202	2489	0.380	ng	99
32) Benzo(a)anthracene	21.358	228	2304	0.405	ng	98
33) Chrysene	21.412	228	2339	0.393	ng	99
34) Bis(2-ethylhexyl)phtha...	21.304	149	979	0.423	ng	# 97
36) Indeno(1,2,3-cd)pyrene	26.019	276	3063	0.389	ng	95
37) Benzo(b)fluoranthene	22.982	252	2535	0.369	ng	98
38) Benzo(k)fluoranthene	23.028	252	2604	0.383	ng	95
39) Benzo(a)pyrene	23.575	252	2244	0.378	ng	96
40) Dibenzo(a,h)anthracene	26.040	278	2458	0.392	ng	97
41) Benzo(g,h,i)perylene	26.736	276	2684	0.383	ng	96

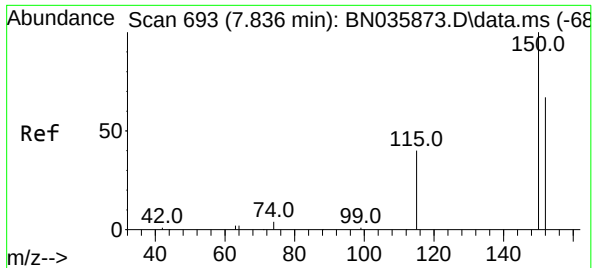
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035926.D
Acq On : 15 Jan 2025 10:27
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jan 15 11:50:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

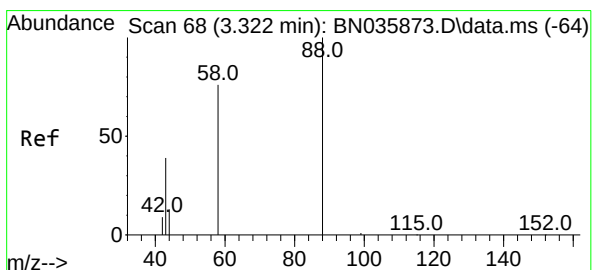
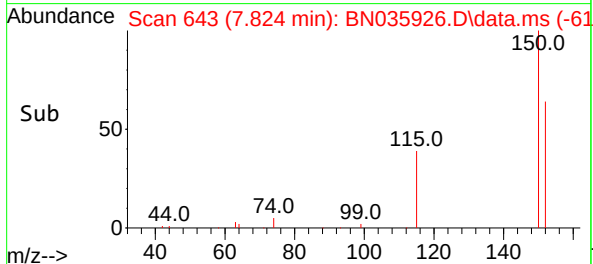
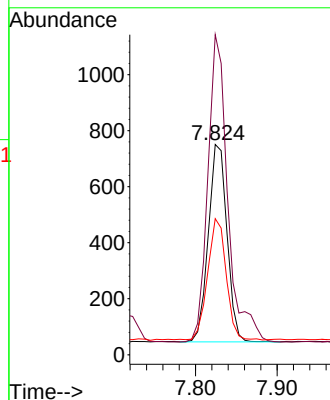
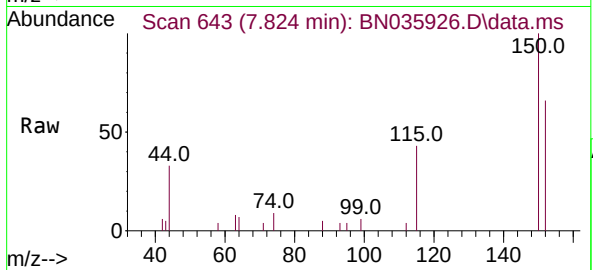




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.824 min Scan# 64
Delta R.T. -0.012 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

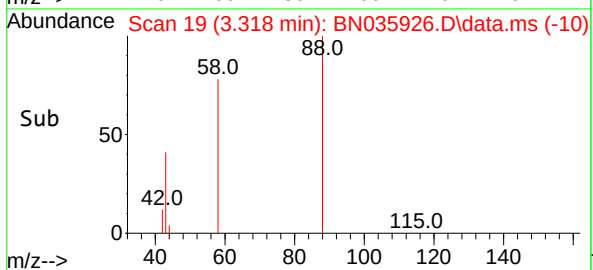
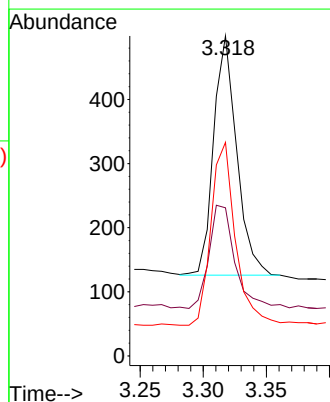
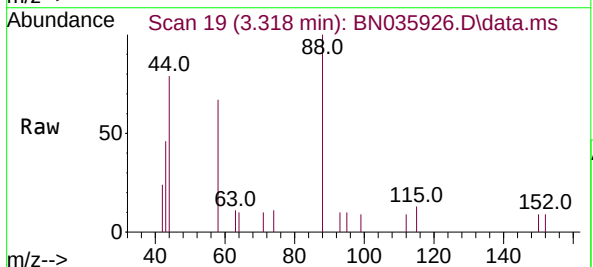
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1122
Ion Ratio Lower Upper
152 100
150 152.2 117.8 176.6
115 64.7 51.0 76.4

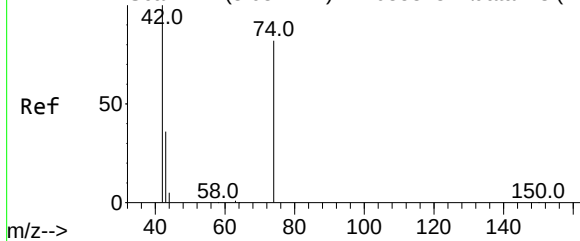


#2
1,4-Dioxane
Concen: 0.425 ng
RT: 3.318 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion: 88 Resp: 474
Ion Ratio Lower Upper
88 100
43 47.5 32.7 49.1
58 80.8 63.0 94.4



Abundance Scan 111 (3.632 min): BN035873.D\data.ms (-10



#3

n-Nitrosodimethylamine

Concen: 0.480 ng

RT: 3.621 min Scan# 61

Delta R.T. -0.011 min

Lab File: BN035926.D

Acq: 15 Jan 2025 10:27

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

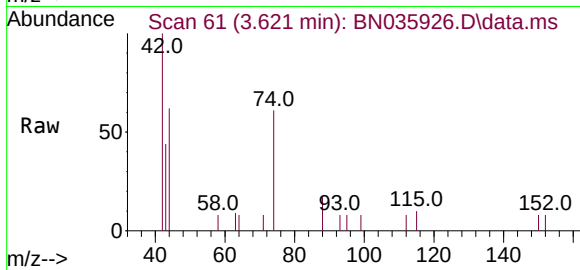
Tgt Ion: 42 Resp: 933

Ion Ratio Lower Upper

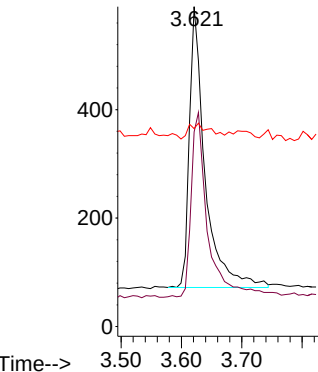
42 100

74 69.7 62.2 93.2

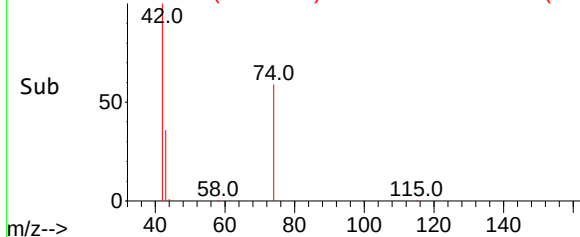
44 7.5 7.1 10.7



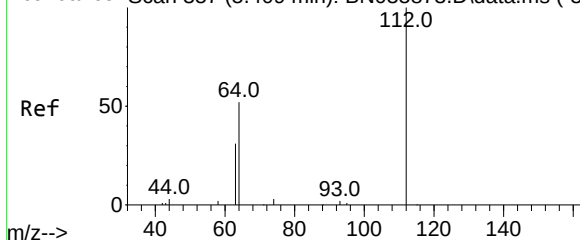
Abundance



Abundance Scan 61 (3.621 min): BN035926.D\data.ms (-42)



Abundance Scan 357 (5.409 min): BN035873.D\data.ms (-34



#4

2-Fluorophenol

Concen: 0.387 ng

RT: 5.398 min Scan# 307

Delta R.T. -0.011 min

Lab File: BN035926.D

Acq: 15 Jan 2025 10:27

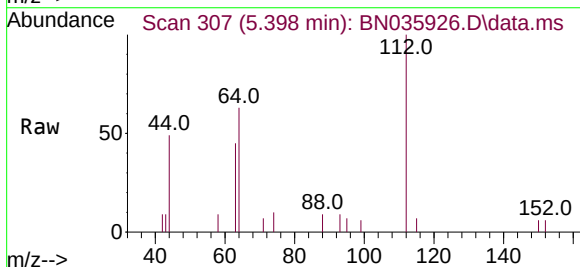
Tgt Ion: 112 Resp: 1064

Ion Ratio Lower Upper

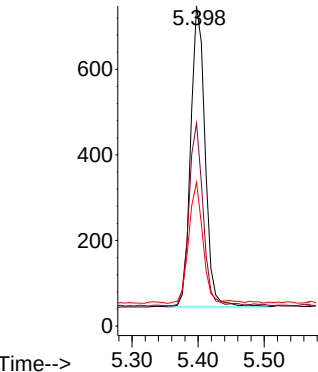
112 100

64 58.6 48.2 72.2

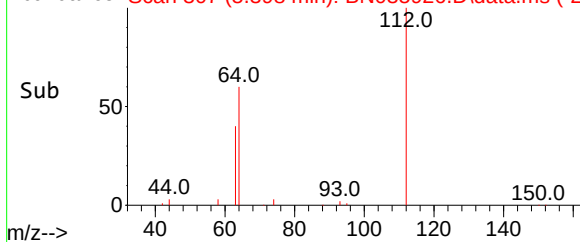
63 39.6 30.0 45.0

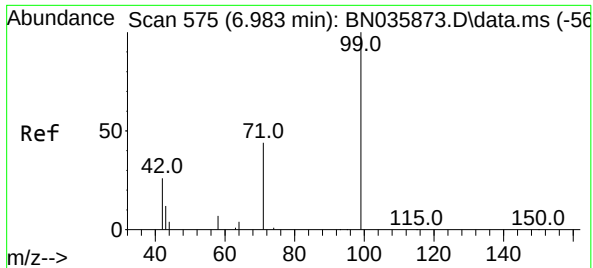


Abundance



Abundance Scan 307 (5.398 min): BN035926.D\data.ms (-28

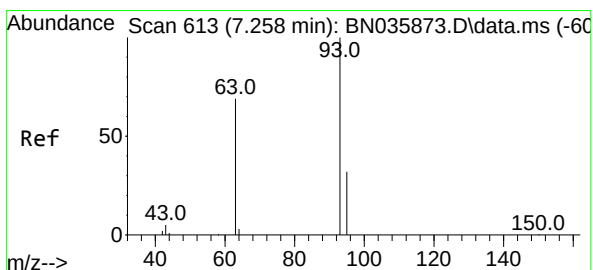
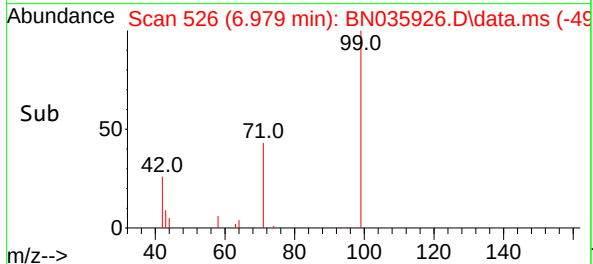
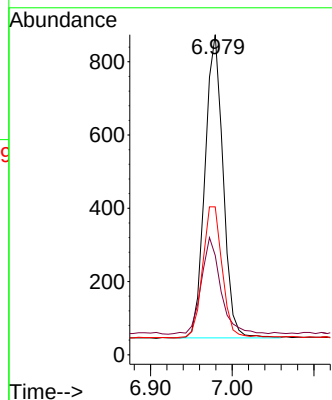
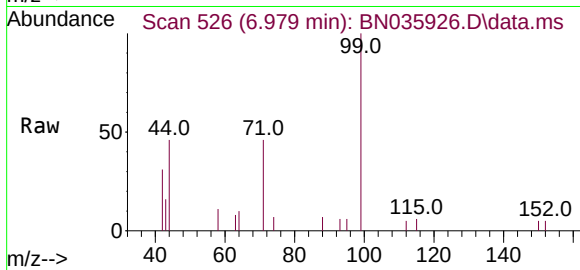




#5
Phenol-d6
Concen: 0.376 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

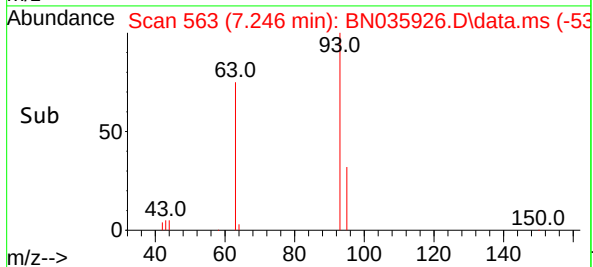
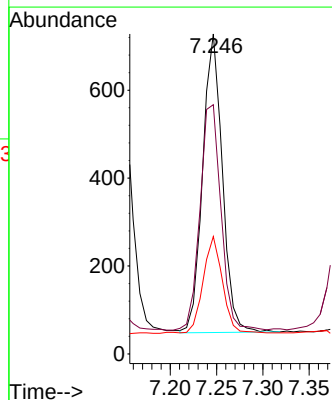
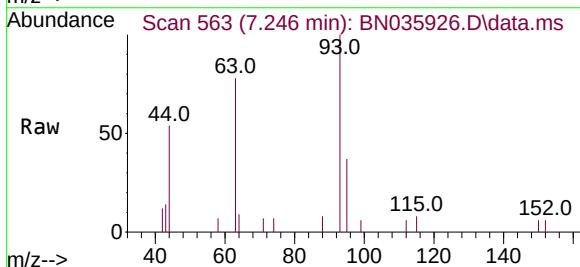
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

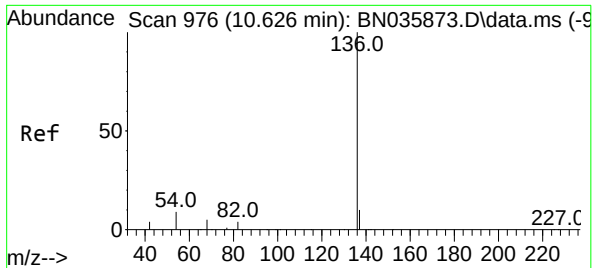
Tgt Ion:	99	Resp:	1284
Ion	Ratio	Lower	Upper
99	100		
42	34.3	23.5	35.3
71	46.9	35.5	53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.385 ng
RT: 7.246 min Scan# 563
Delta R.T. -0.011 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:	93	Resp:	1004
Ion	Ratio	Lower	Upper
93	100		
63	80.3	62.0	93.0
95	32.1	25.5	38.3

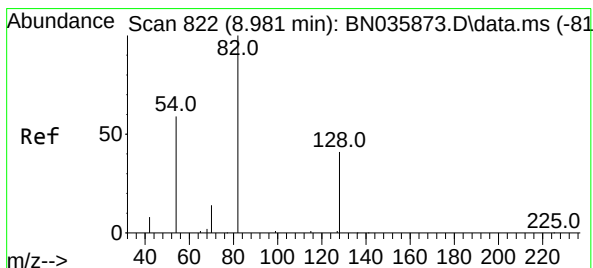
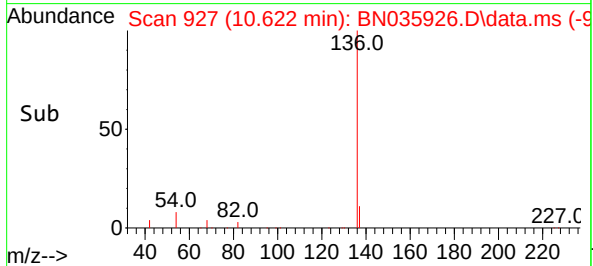
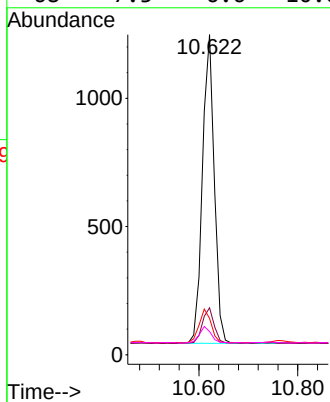
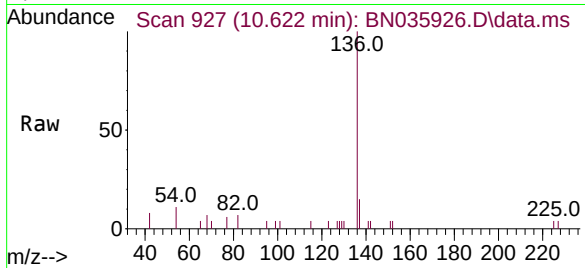




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

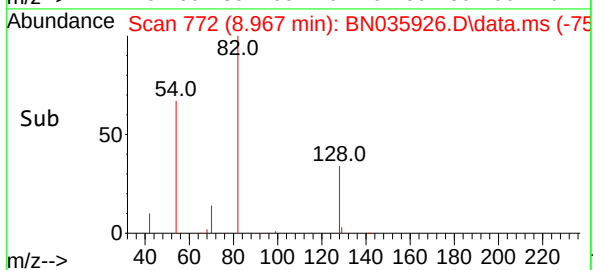
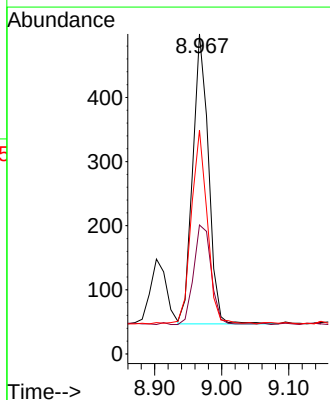
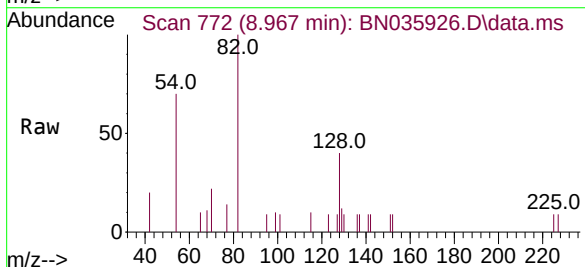
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

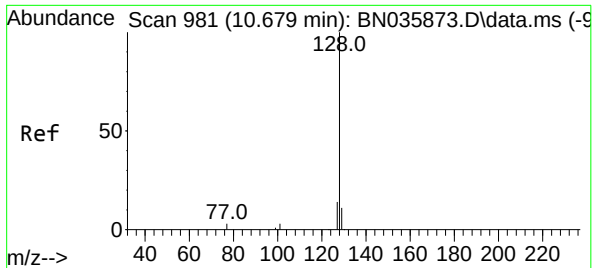
Tgt Ion:	136	Resp:	1996
Ion	Ratio	Lower	Upper
136	100		
137	14.7	10.6	15.8
54	11.4	9.8	14.6
68	7.3	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.468 ng
RT: 8.967 min Scan# 772
Delta R.T. -0.015 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:	82	Resp:	740
Ion	Ratio	Lower	Upper
82	100		
128	40.3	36.9	55.3
54	69.9	50.4	75.6

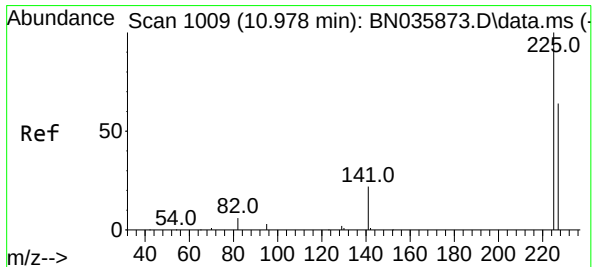
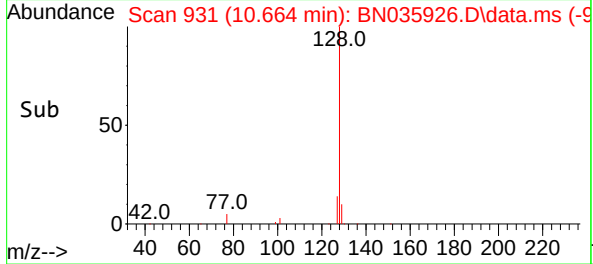
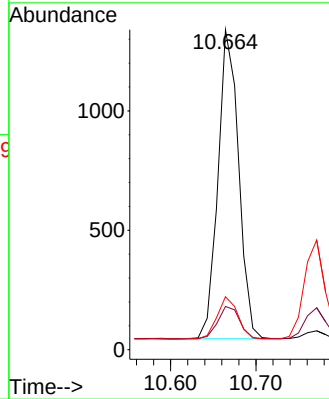
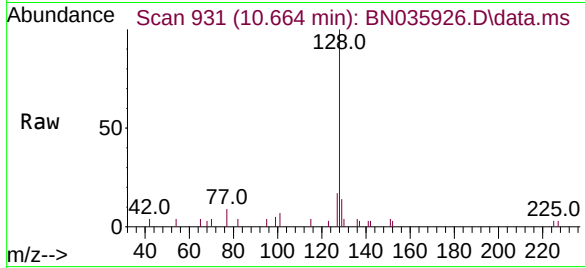




#9
Naphthalene
Concen: 0.387 ng
RT: 10.664 min Scan# 91
Delta R.T. -0.015 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

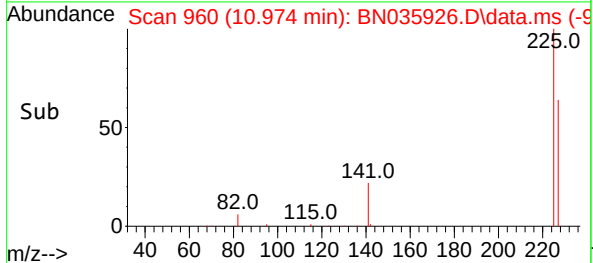
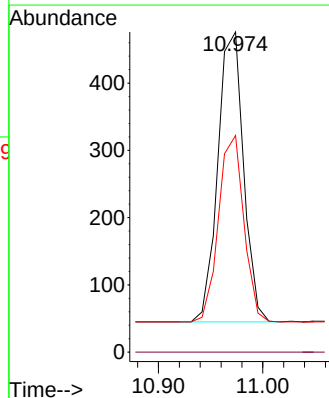
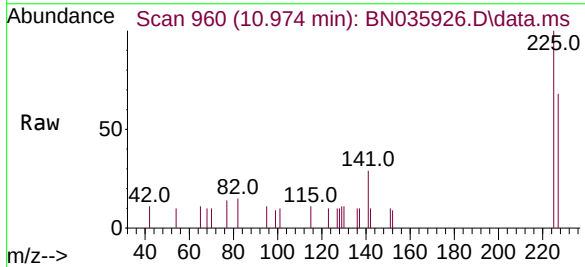
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

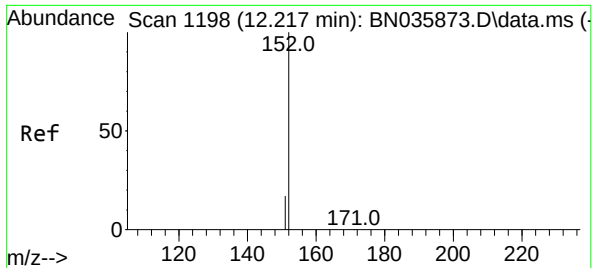
Tgt Ion:	128	Resp:	2169
Ion	Ratio	Lower	Upper
128	100		
129	13.5	10.6	16.0
127	16.6	12.8	19.2



#10
Hexachlorobutadiene
Concen: 0.406 ng
RT: 10.974 min Scan# 960
Delta R.T. -0.004 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:	225	Resp:	738
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	51.5	77.3

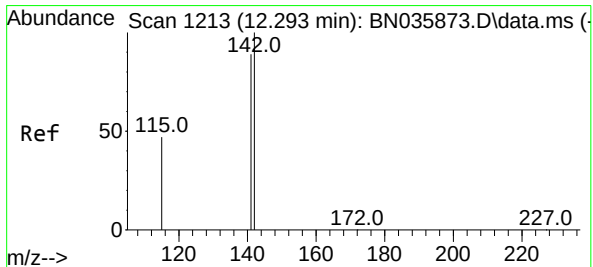
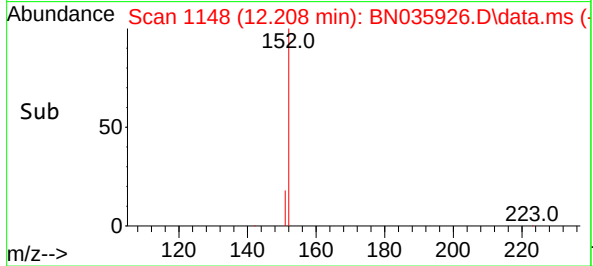
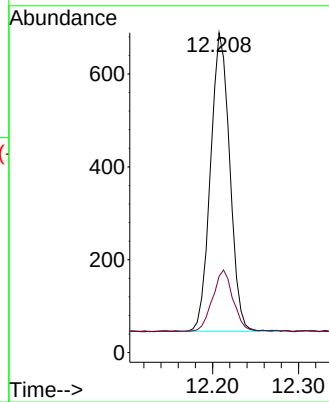
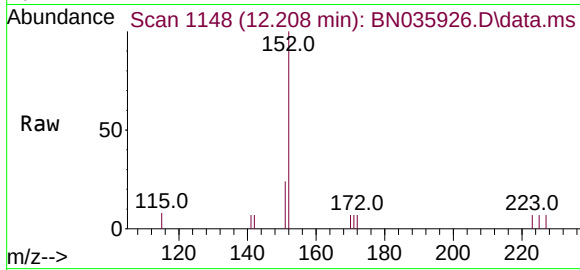




#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 12.208 min Scan# 1163
Delta R.T. -0.009 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

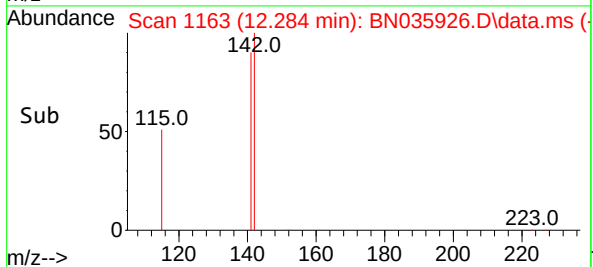
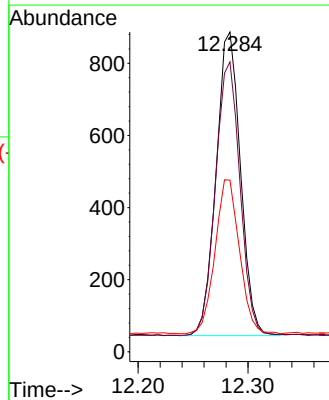
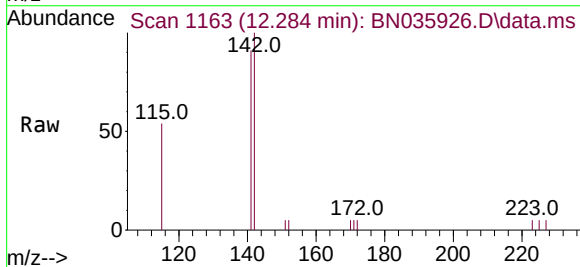
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

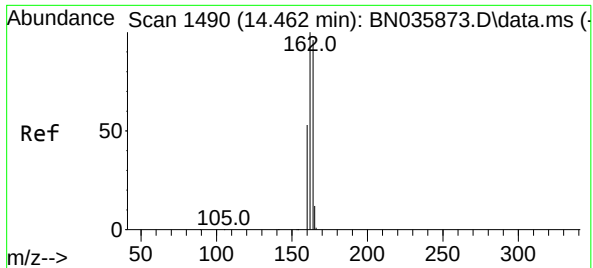
Tgt Ion:152 Resp: 998
Ion Ratio Lower Upper
152 100
151 21.7 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.284 min Scan# 1163
Delta R.T. -0.009 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:142 Resp: 1300
Ion Ratio Lower Upper
142 100
141 90.6 71.9 107.9
115 53.7 39.6 59.4

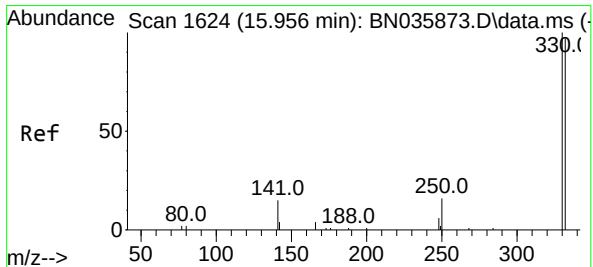
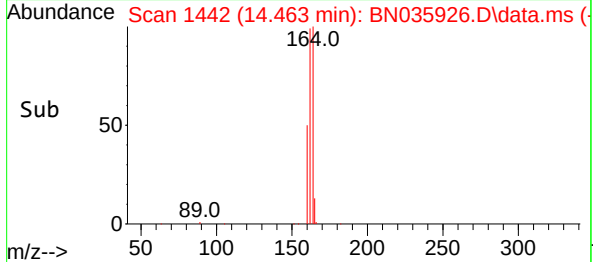
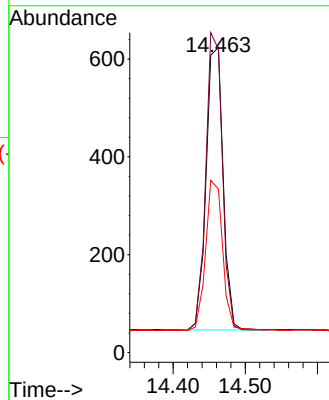
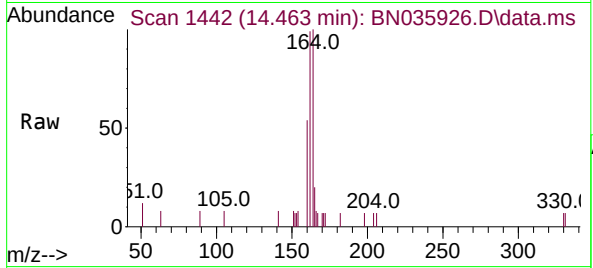




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 1490
Delta R.T. 0.001 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

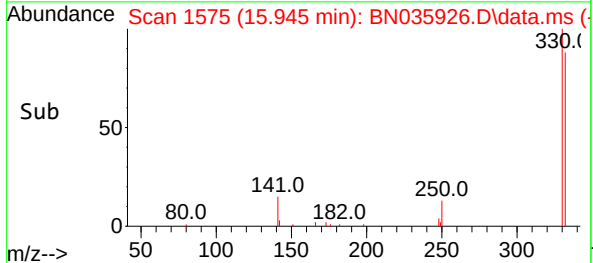
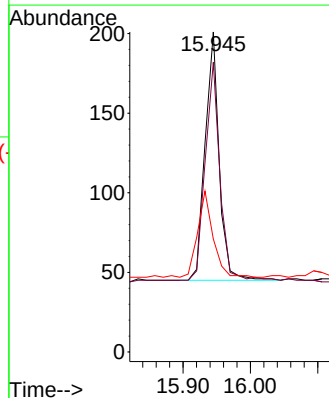
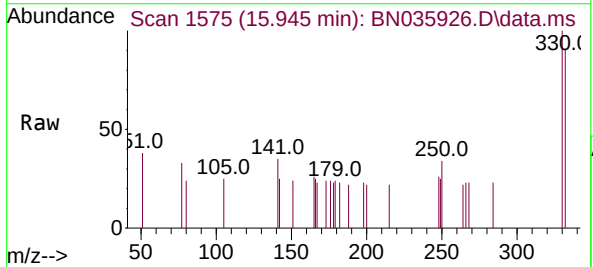
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

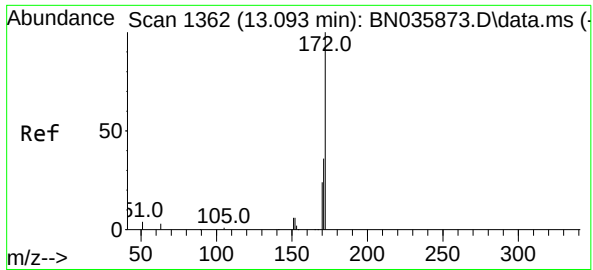
Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.4	83.1	124.7
160	53.5	46.0	69.0



#14
2,4,6-Tribromophenol
Concen: 0.496 ng
RT: 15.945 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.2	115.8
141	37.9	31.6	47.4

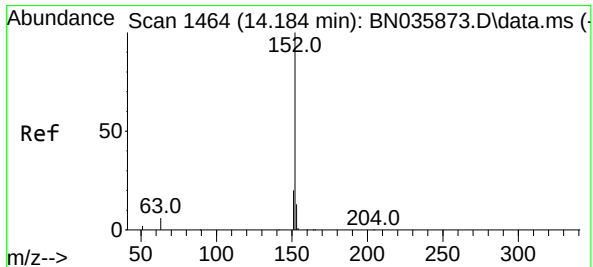
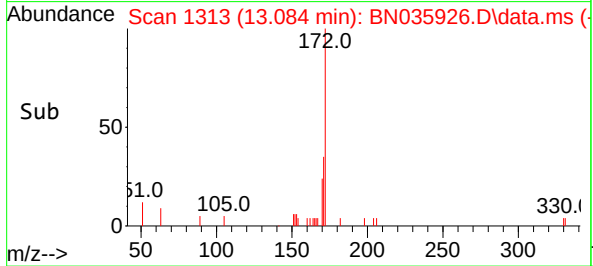
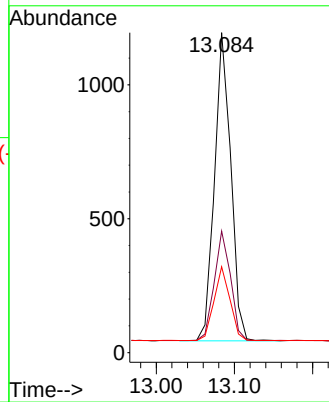
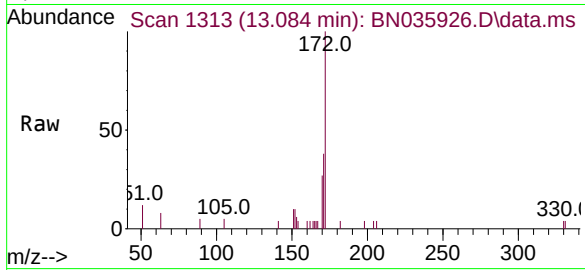




#15
2-Fluorobiphenyl
Concen: 0.397 ng
RT: 13.084 min Scan# 1412
Delta R.T. -0.010 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

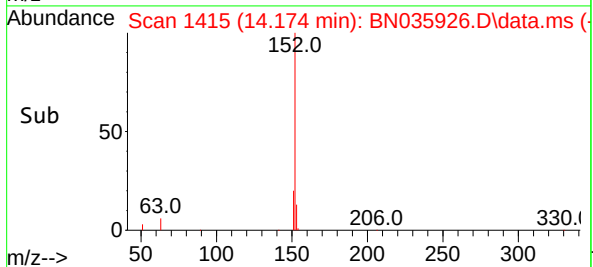
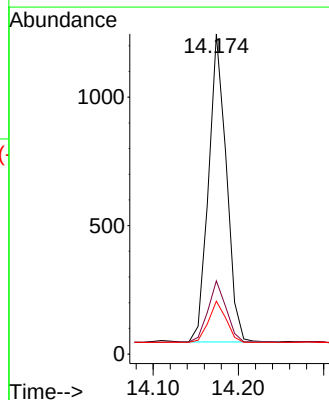
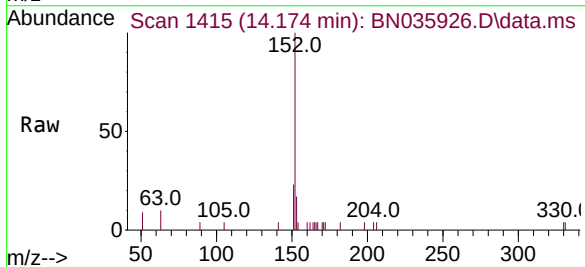
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

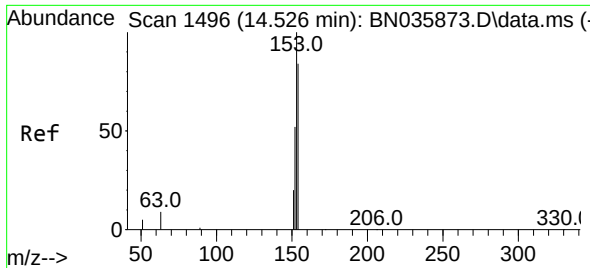
Tgt Ion:	172	Resp:	1663
Ion Ratio	Lower	Upper	
172	100		
171	38.0	30.5	45.7
170	26.9	20.8	31.2



#16
Acenaphthylene
Concen: 0.387 ng
RT: 14.174 min Scan# 1415
Delta R.T. -0.010 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:	152	Resp:	1740
Ion Ratio	Lower	Upper	
152	100		
151	20.5	16.3	24.5
153	13.6	10.6	15.8

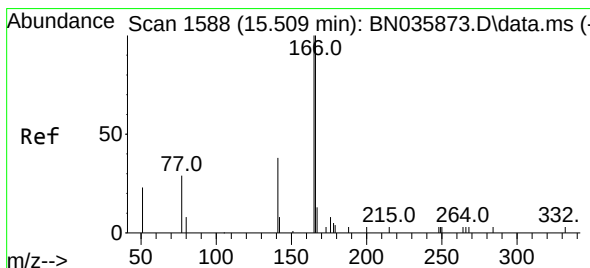
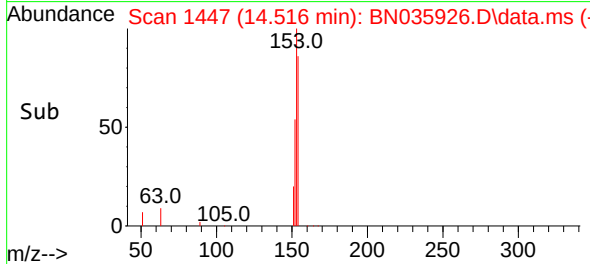
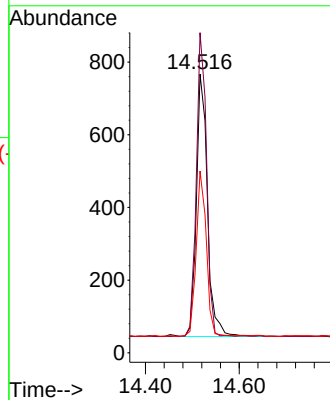
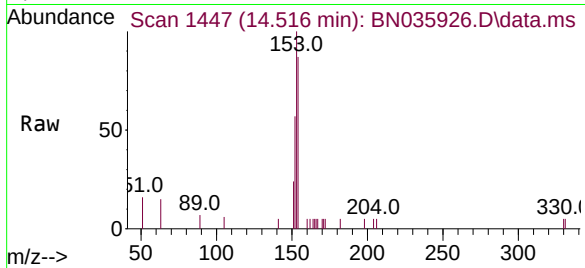




#17
Acenaphthene
Concen: 0.402 ng
RT: 14.516 min Scan# 1496
Delta R.T. -0.010 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

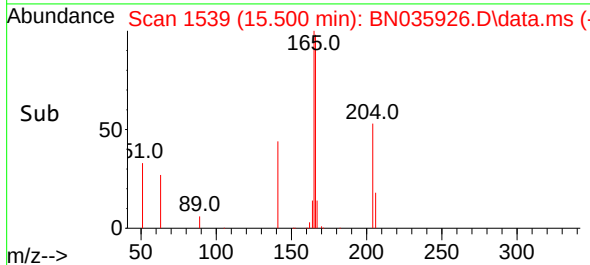
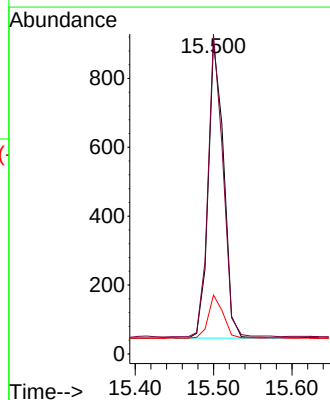
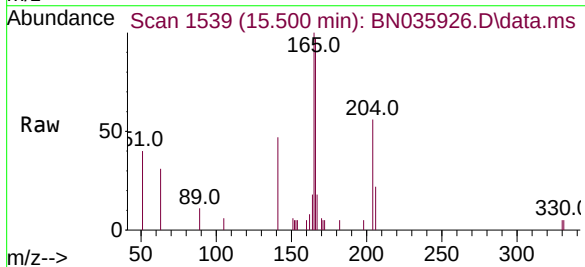
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

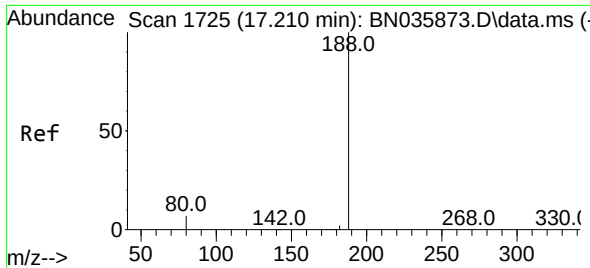
Tgt Ion	Ratio	Lower	Upper
154	100		
153	106.8	90.5	135.7
152	57.3	48.6	73.0



#18
Fluorene
Concen: 0.381 ng
RT: 15.500 min Scan# 1539
Delta R.T. -0.010 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.7	80.6	120.8
167	14.2	11.4	17.0

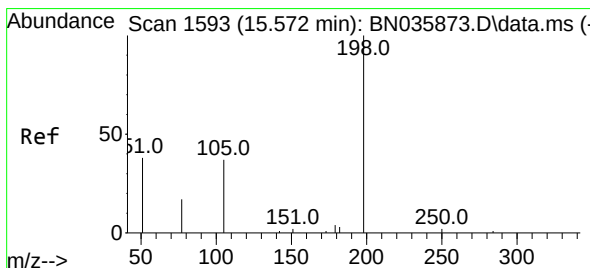
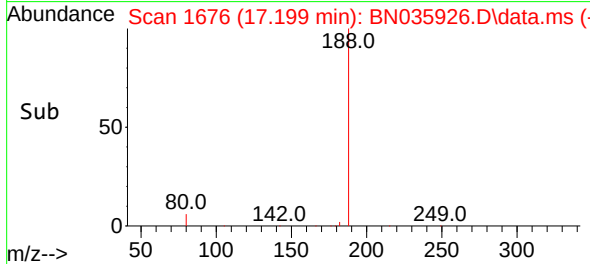
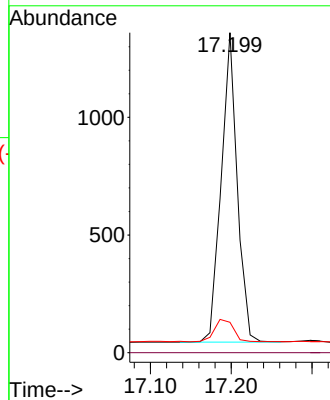
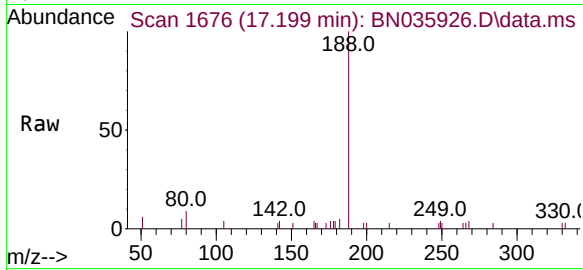




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.199 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

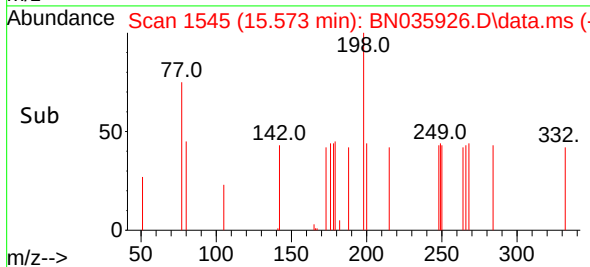
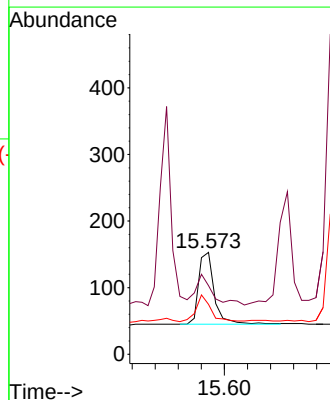
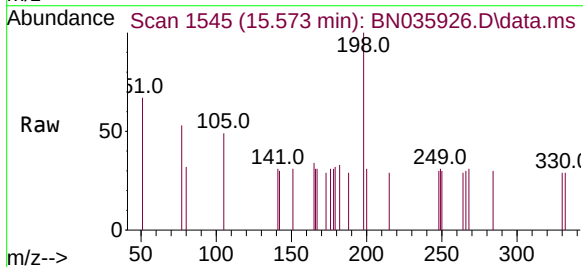
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

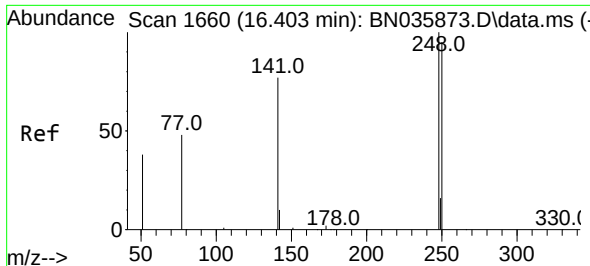
Tgt Ion:188 Resp: 1813
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.5 7.3 10.9



#20
4,6-Dinitro-2-methylphenol
Concen: 0.648 ng
RT: 15.573 min Scan# 1545
Delta R.T. 0.001 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:198 Resp: 204
Ion Ratio Lower Upper
198 100
51 67.3 64.3 96.5
105 49.0 50.0 75.0#

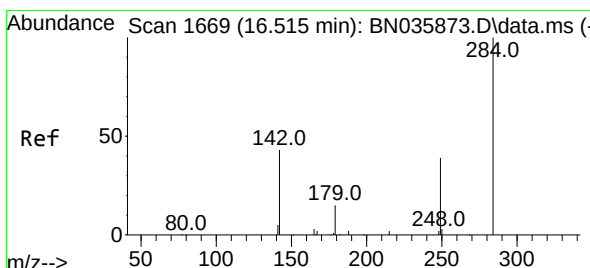
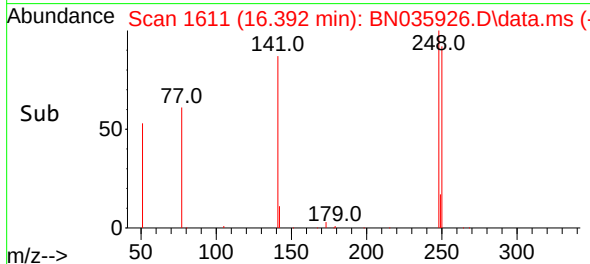
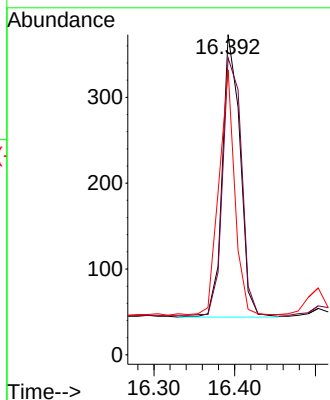
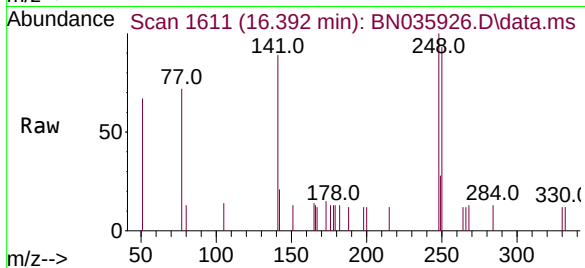




#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 16.392 min Scan# 1611
Delta R.T. -0.011 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

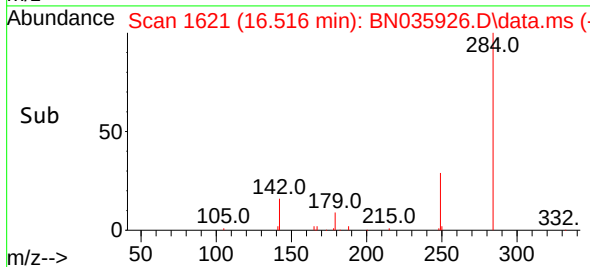
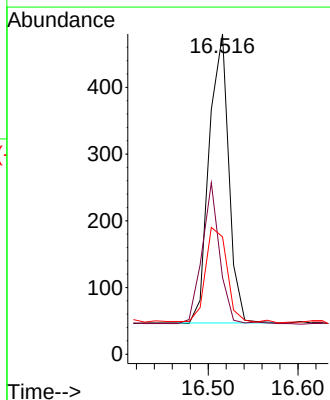
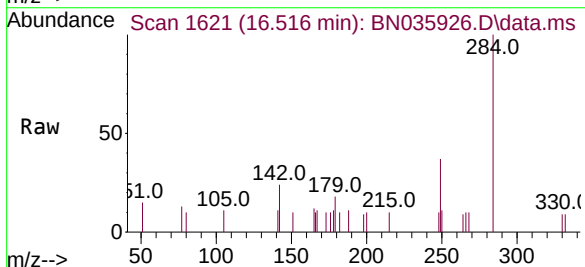
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

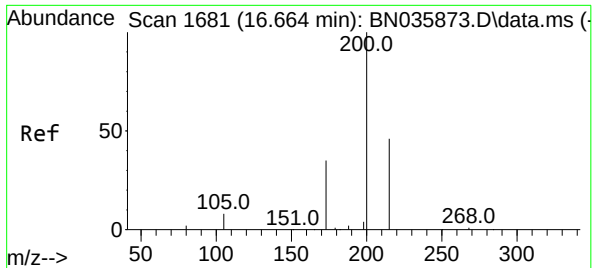
Tgt Ion:248 Resp: 503
Ion Ratio Lower Upper
248 100
250 92.8 76.8 115.2
141 89.0 63.6 95.4



#22
Hexachlorobenzene
Concen: 0.386 ng
RT: 16.516 min Scan# 1621
Delta R.T. 0.001 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:284 Resp: 655
Ion Ratio Lower Upper
284 100
142 44.7 31.4 47.0
249 36.5 27.8 41.8

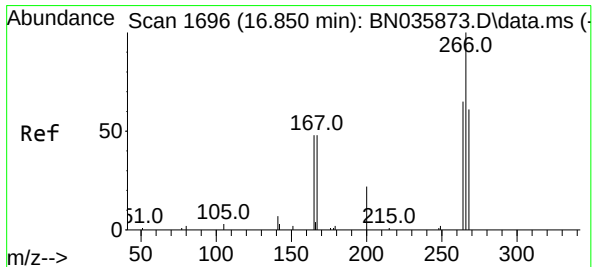
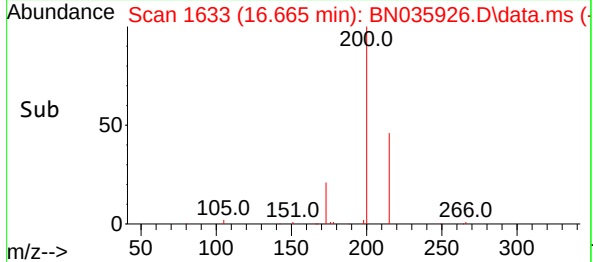
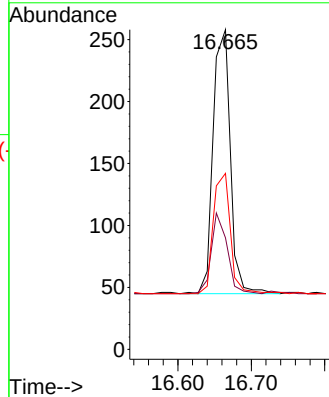
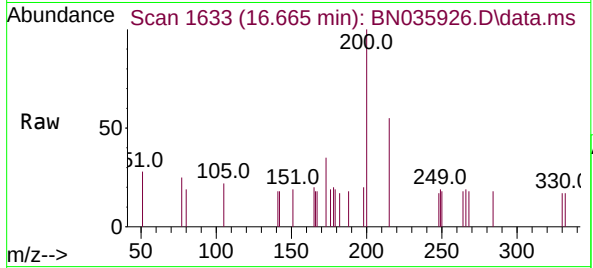




#23
Atrazine
Concen: 0.416 ng
RT: 16.665 min Scan# 1633
Delta R.T. 0.001 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

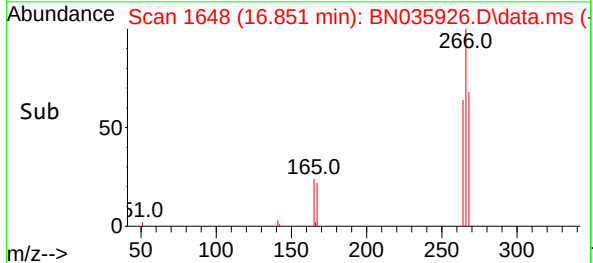
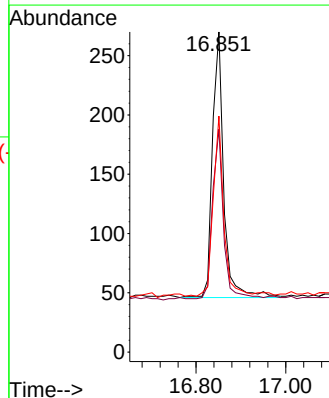
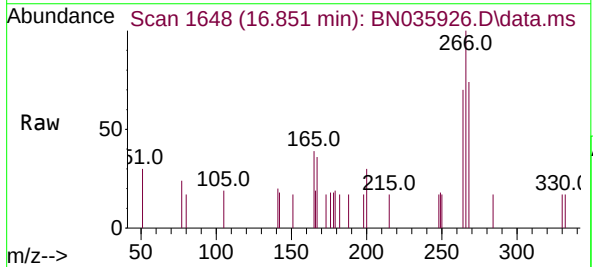
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

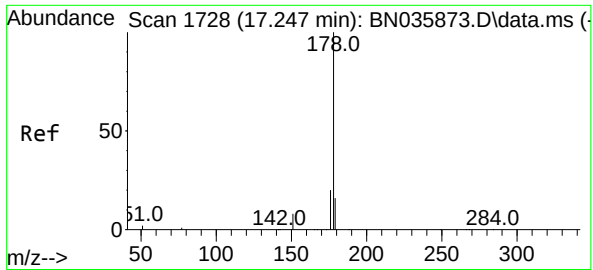
Tgt Ion	Ratio	Lower	Upper
200	100		
173	34.9	35.4	53.0
215	55.0	42.4	63.6



#24
Pentachlorophenol
Concen: 0.648 ng
RT: 16.851 min Scan# 1648
Delta R.T. 0.001 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.4	49.9	74.9
268	63.2	50.2	75.2

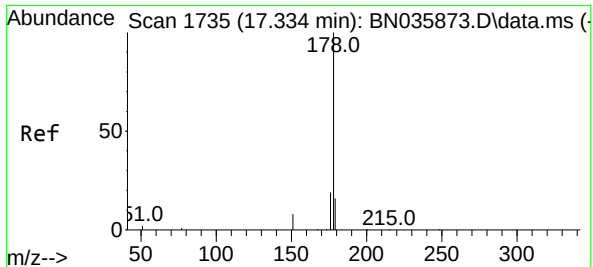
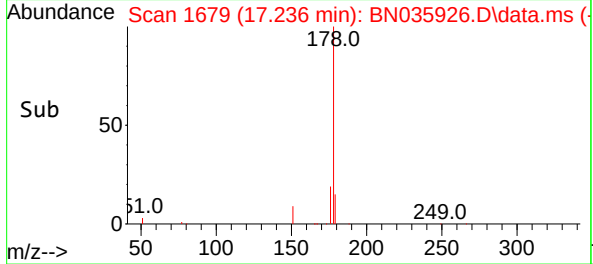
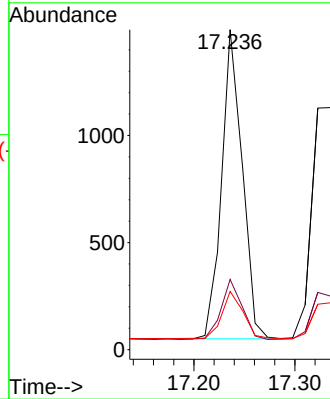
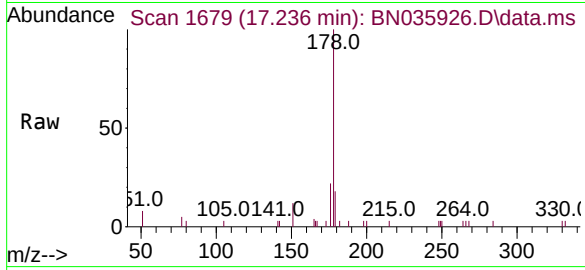




#25
Phenanthrene
Concen: 0.386 ng
RT: 17.236 min Scan# 1679
Delta R.T. -0.011 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

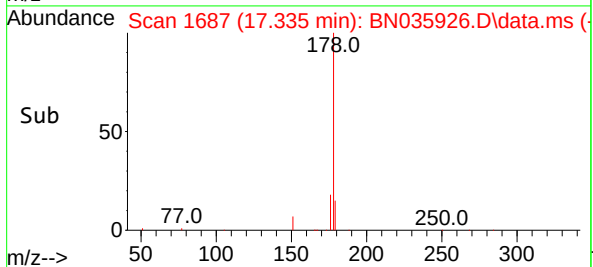
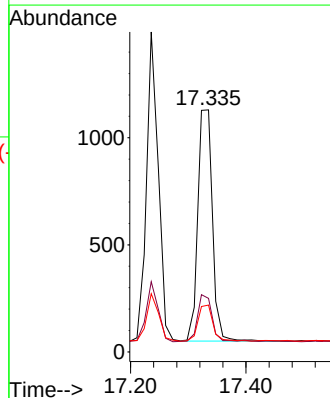
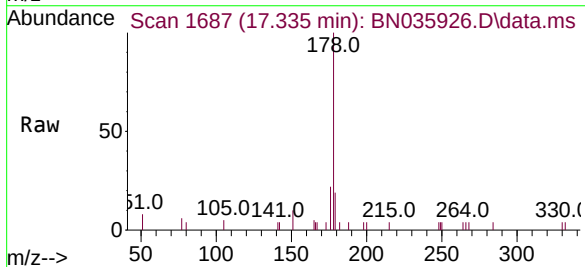
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

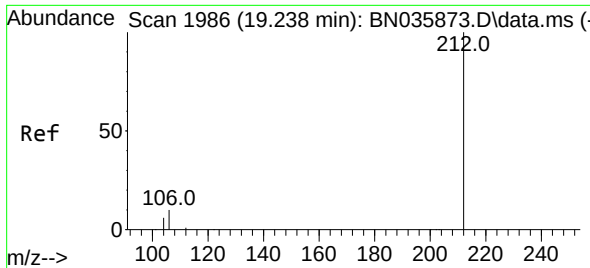
Tgt Ion:178 Resp: 2042
Ion Ratio Lower Upper
178 100
176 19.9 15.9 23.9
179 15.9 12.9 19.3



#26
Anthracene
Concen: 0.395 ng
RT: 17.335 min Scan# 1687
Delta R.T. 0.001 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:178 Resp: 1902
Ion Ratio Lower Upper
178 100
176 20.0 15.0 22.6
179 15.7 13.0 19.6

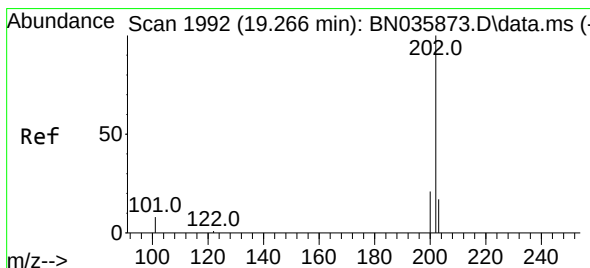
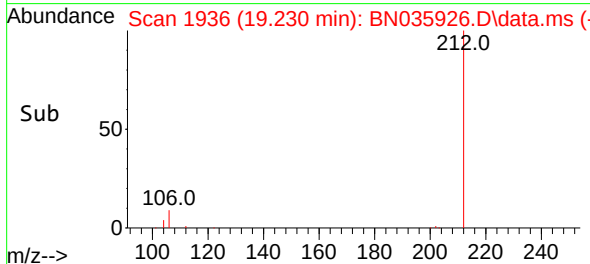
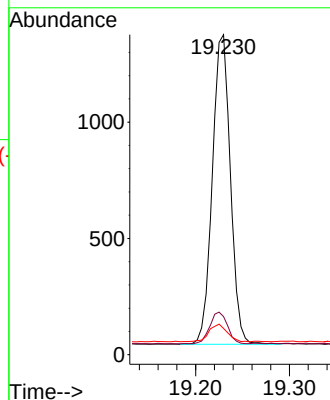
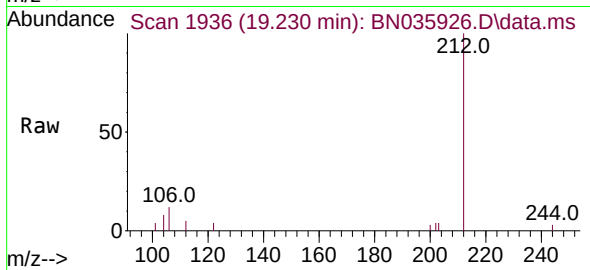




#27
Fluoranthene-d10
Concen: 0.395 ng
RT: 19.230 min Scan# 1942
Delta R.T. -0.008 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

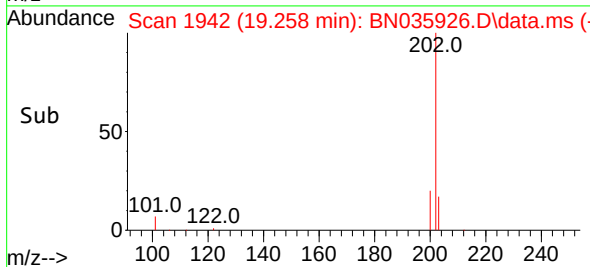
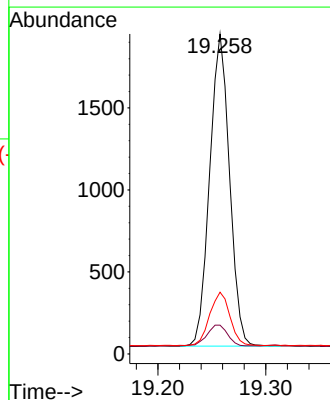
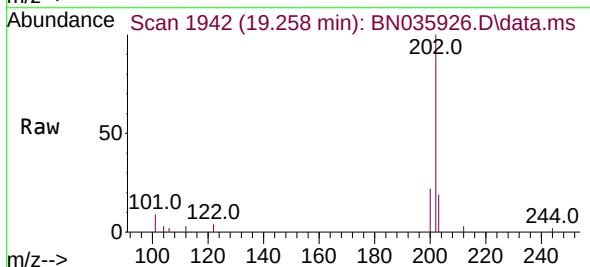
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

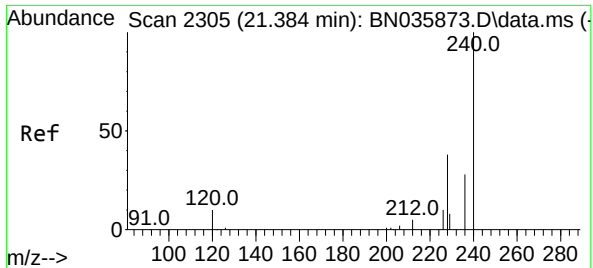
Tgt Ion:212 Resp: 1777
Ion Ratio Lower Upper
212 100
106 10.1 9.0 13.6
104 5.9 5.4 8.2



#28
Fluoranthene
Concen: 0.394 ng
RT: 19.258 min Scan# 1942
Delta R.T. -0.008 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:202 Resp: 2431
Ion Ratio Lower Upper
202 100
101 7.3 7.2 10.8
203 17.6 13.9 20.9

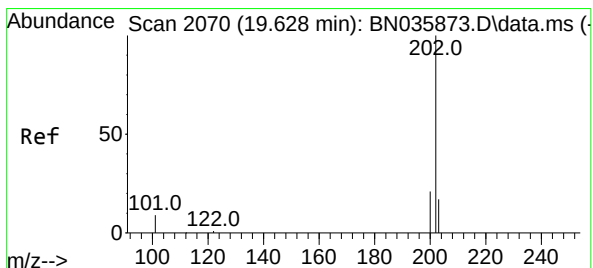
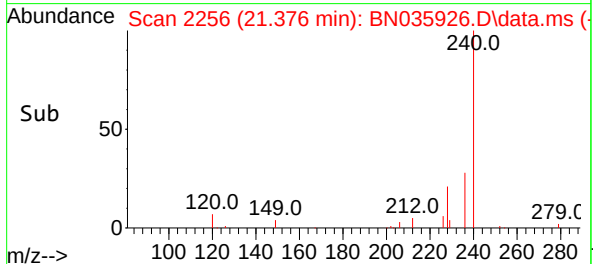
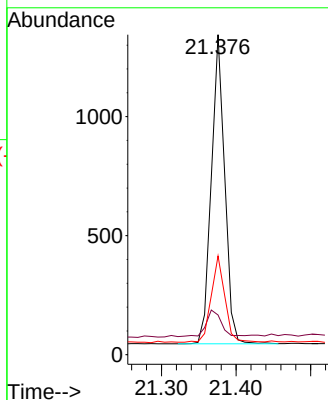
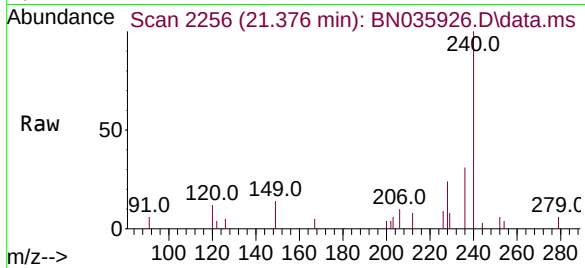




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.376 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

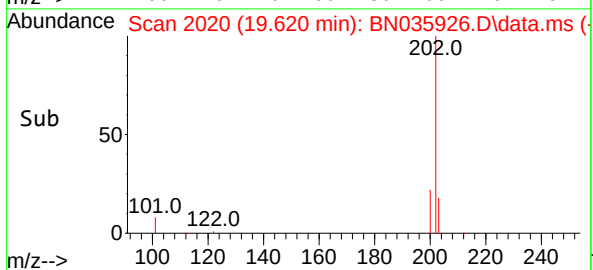
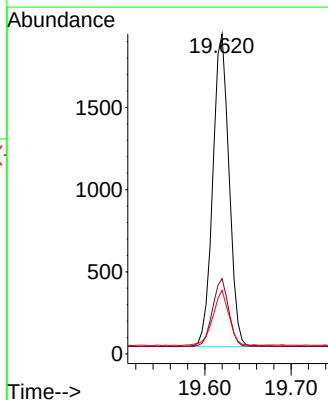
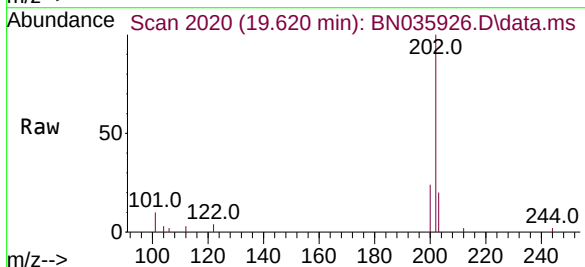
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

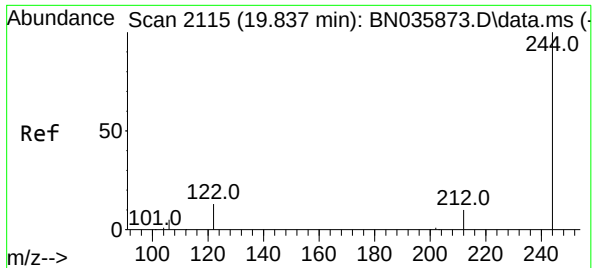
Tgt Ion:240 Resp: 1614
Ion Ratio Lower Upper
240 100
120 12.4 11.1 16.7
236 30.9 24.6 36.8



#30
Pyrene
Concen: 0.380 ng
RT: 19.620 min Scan# 2020
Delta R.T. -0.008 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:202 Resp: 2489
Ion Ratio Lower Upper
202 100
200 21.7 17.0 25.6
203 17.7 14.6 22.0

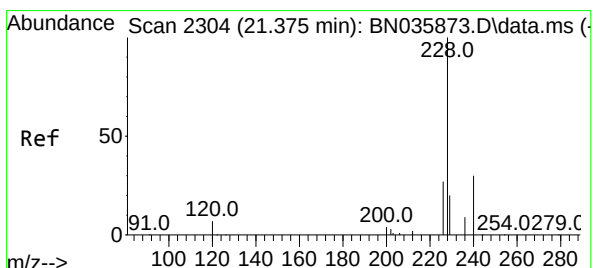
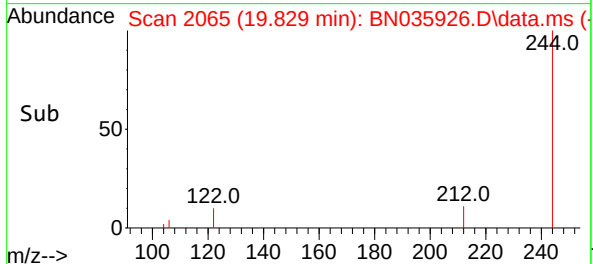
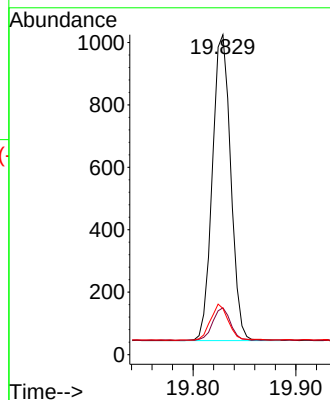
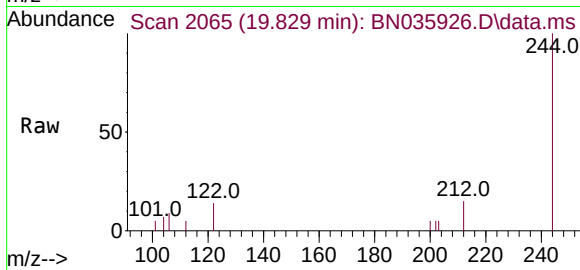




#31
 Terphenyl-d14
 Concen: 0.377 ng
 RT: 19.829 min Scan# 2065
 Delta R.T. -0.008 min
 Lab File: BN035926.D
 Acq: 15 Jan 2025 10:27

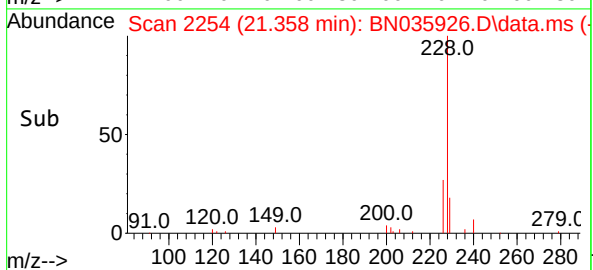
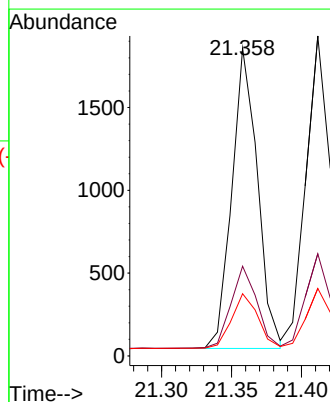
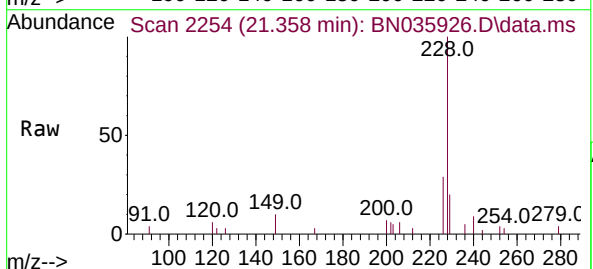
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

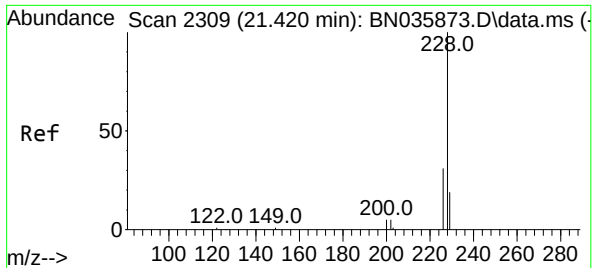
Tgt Ion:244 Resp: 1214
 Ion Ratio Lower Upper
 244 100
 212 14.6 10.1 15.1
 122 14.4 12.2 18.4



#32
 Benzo(a)anthracene
 Concen: 0.405 ng
 RT: 21.358 min Scan# 2254
 Delta R.T. -0.017 min
 Lab File: BN035926.D
 Acq: 15 Jan 2025 10:27

Tgt Ion:228 Resp: 2304
 Ion Ratio Lower Upper
 228 100
 226 29.2 22.7 34.1
 229 20.2 17.1 25.7

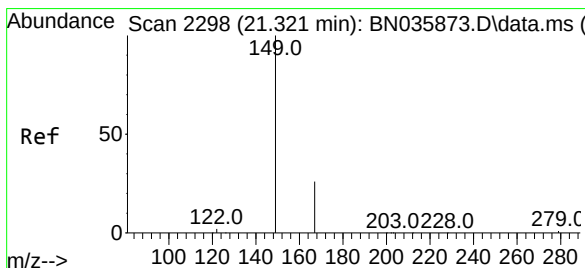
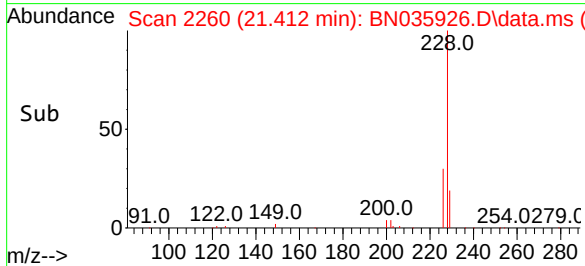
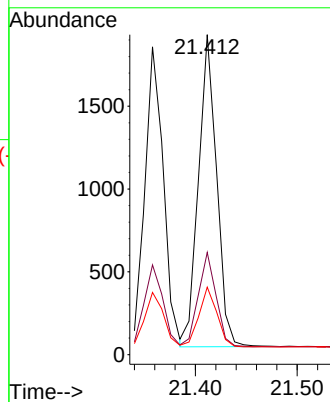
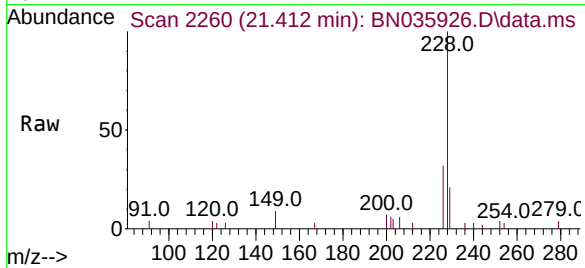




#33
Chrysene
Concen: 0.393 ng
RT: 21.412 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

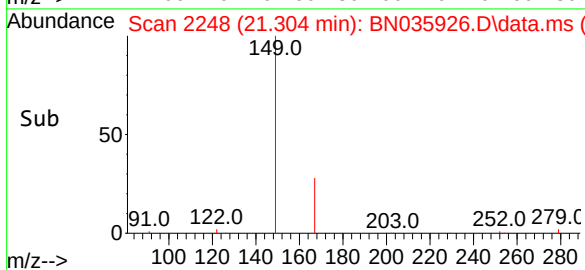
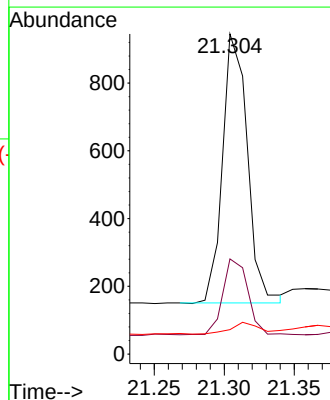
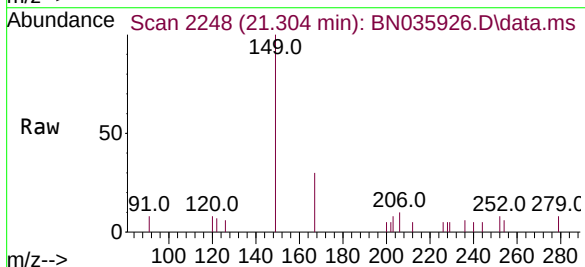
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

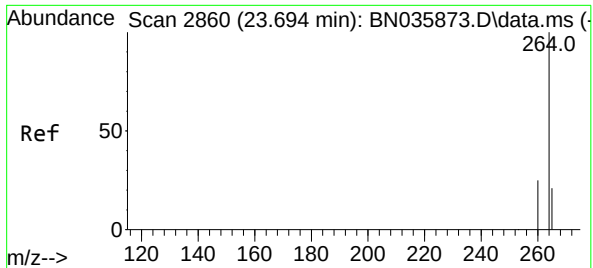
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.9	25.2	37.8
229	21.1	16.0	24.0



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.423 ng
RT: 21.304 min Scan# 2248
Delta R.T. -0.017 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion	Ratio	Lower	Upper
149	100		
167	28.4	21.4	32.0
279	4.8	3.0	4.6#

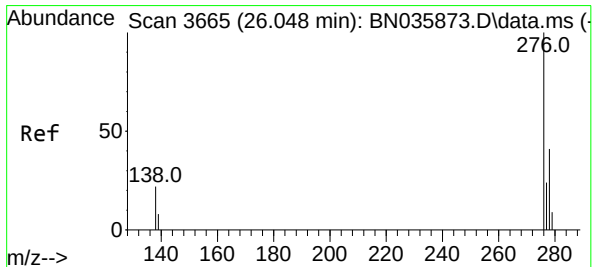
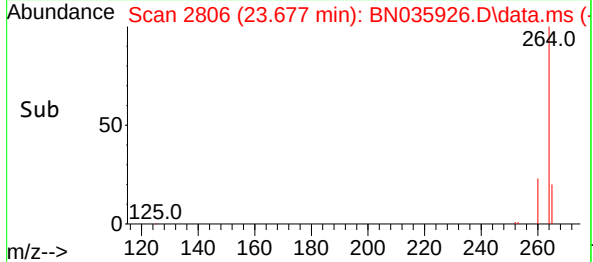
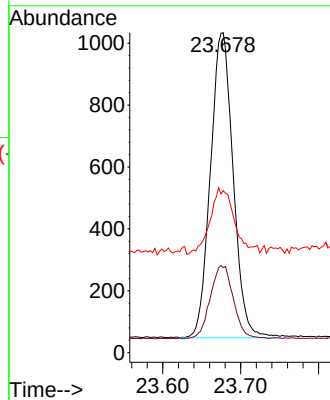
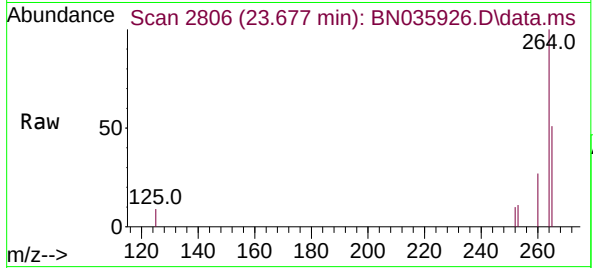




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.677 min Scan# 21
Delta R.T. -0.017 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

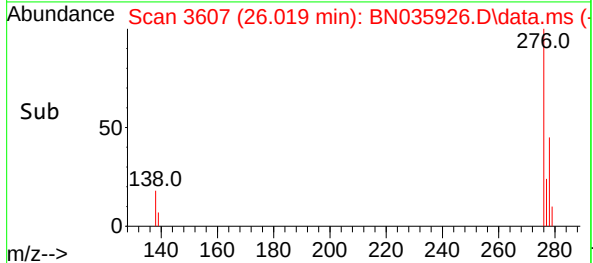
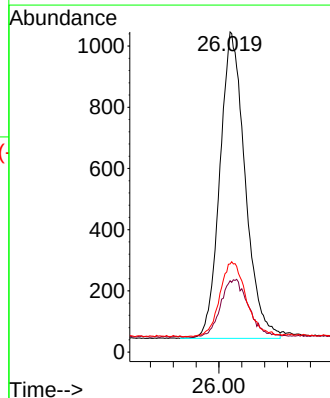
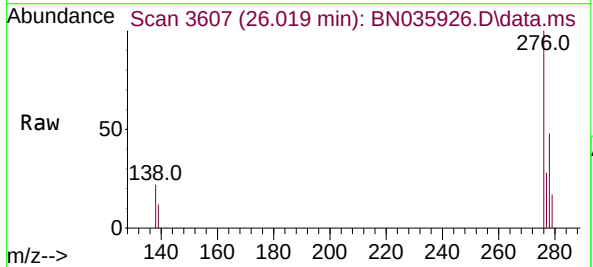
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

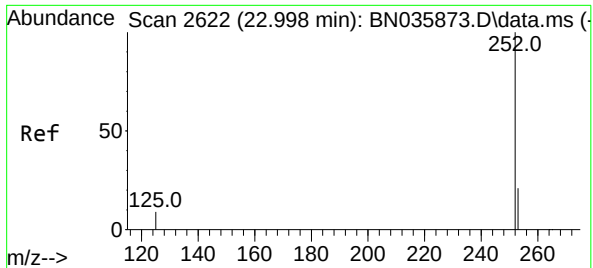
Tgt Ion:	264	Resp:	1998
Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.7	32.5
265	50.7	33.9	50.9



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 26.019 min Scan# 3607
Delta R.T. -0.028 min
Lab File: BN035926.D
Acq: 15 Jan 2025 10:27

Tgt Ion:	276	Resp:	3063
Ion	Ratio	Lower	Upper
276	100		
138	20.0	18.9	28.3
277	25.7	19.5	29.3





#37

Benzo(b)fluoranthene

Concen: 0.369 ng

RT: 22.982 min Scan# 2568

Delta R.T. -0.017 min

Lab File: BN035926.D

Acq: 15 Jan 2025 10:27

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

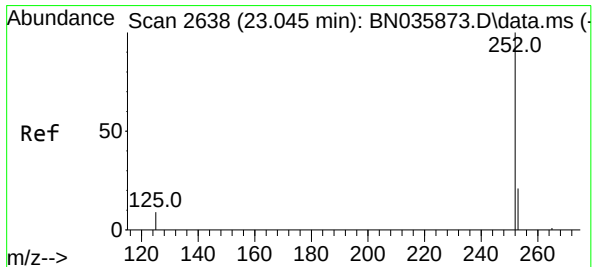
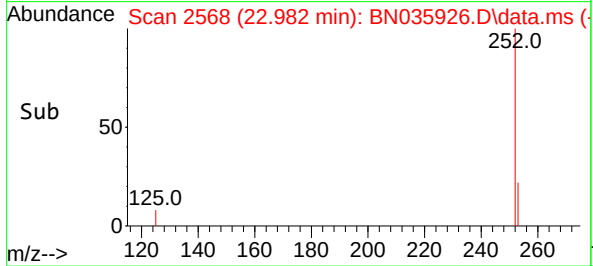
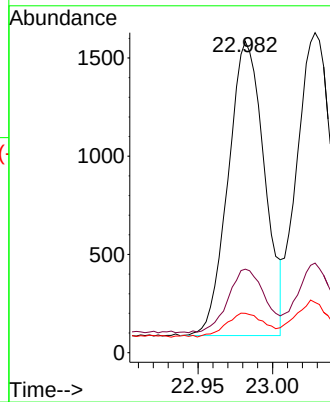
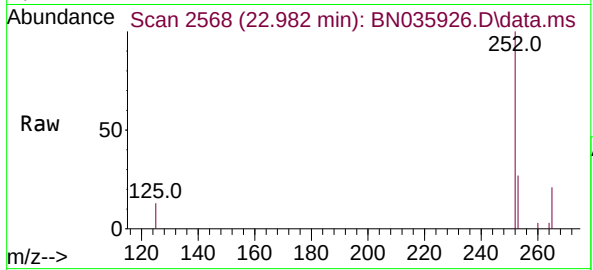
Tgt Ion:252 Resp: 2535

Ion Ratio Lower Upper

252 100

253 26.8 20.1 30.1

125 12.6 9.9 14.9



#38

Benzo(k)fluoranthene

Concen: 0.383 ng

RT: 23.028 min Scan# 2584

Delta R.T. -0.017 min

Lab File: BN035926.D

Acq: 15 Jan 2025 10:27

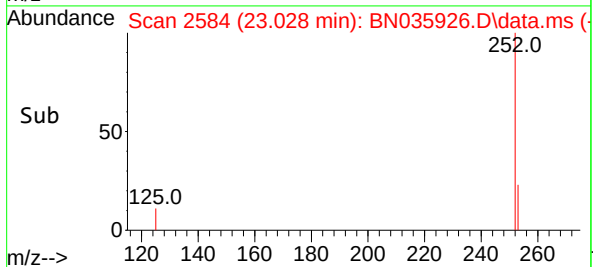
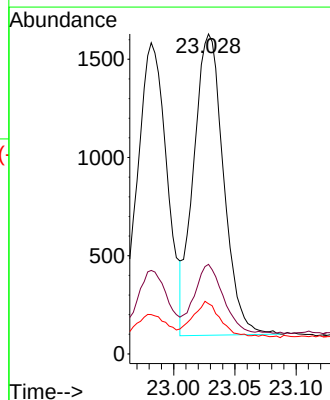
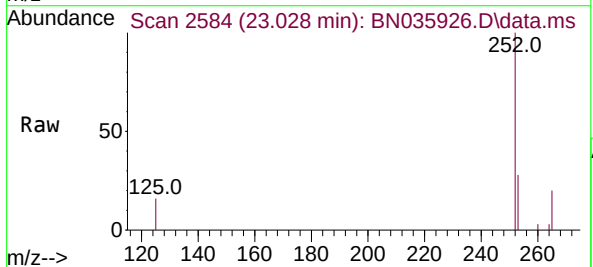
Tgt Ion:252 Resp: 2604

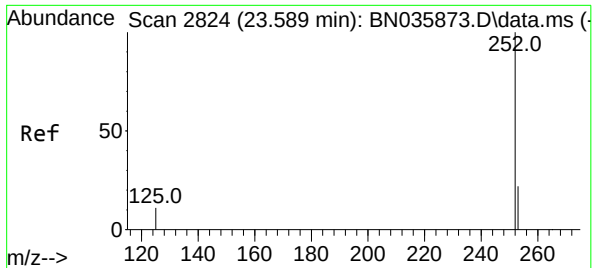
Ion Ratio Lower Upper

252 100

253 28.0 20.5 30.7

125 15.7 10.6 16.0





#39

Benzo(a)pyrene

Concen: 0.378 ng

RT: 23.575 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN035926.D

Acq: 15 Jan 2025 10:27

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

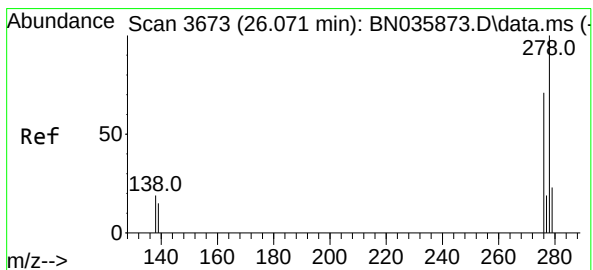
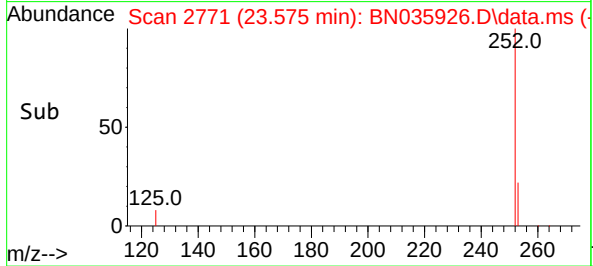
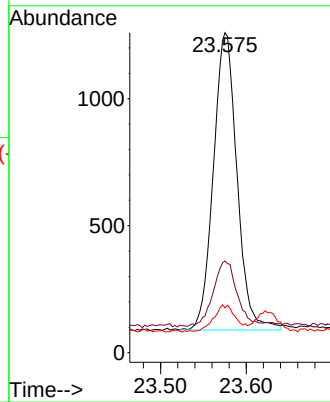
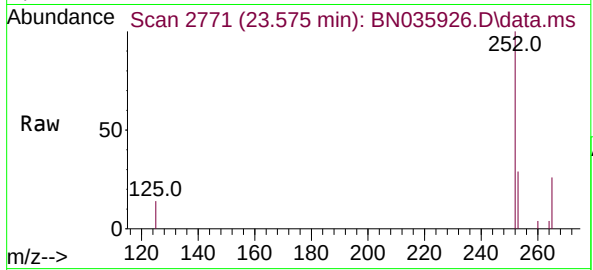
Tgt Ion:252 Resp: 2244

Ion Ratio Lower Upper

252 100

253 28.7 21.5 32.3

125 14.0 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.392 ng

RT: 26.040 min Scan# 3614

Delta R.T. -0.031 min

Lab File: BN035926.D

Acq: 15 Jan 2025 10:27

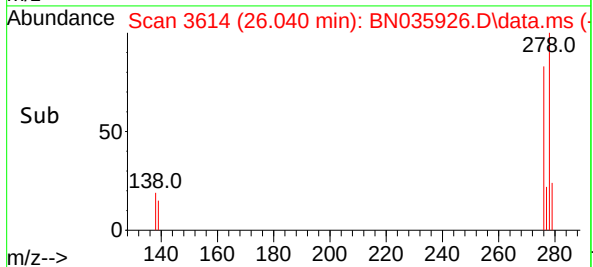
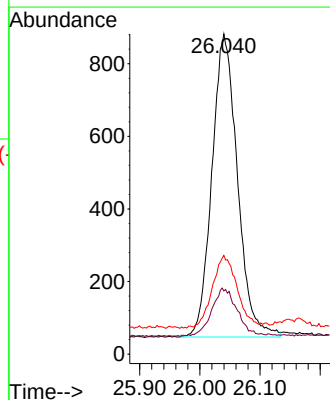
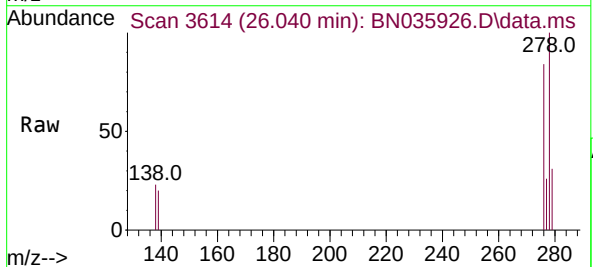
Tgt Ion:278 Resp: 2458

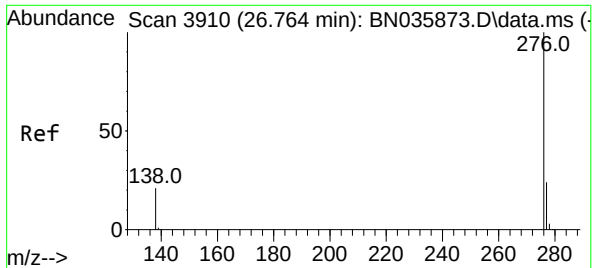
Ion Ratio Lower Upper

278 100

139 19.7 15.9 23.9

279 30.8 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.383 ng

RT: 26.736 min Scan# 31

Delta R.T. -0.028 min

Lab File: BN035926.D

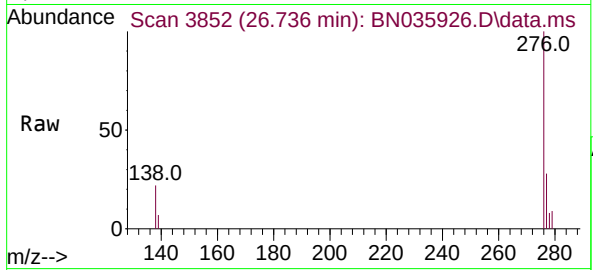
Acq: 15 Jan 2025 10:27

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



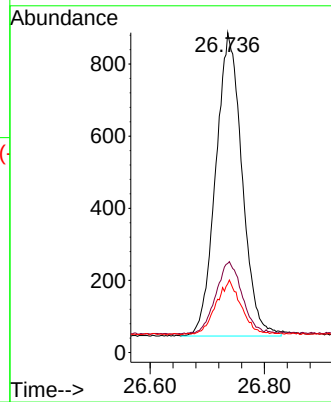
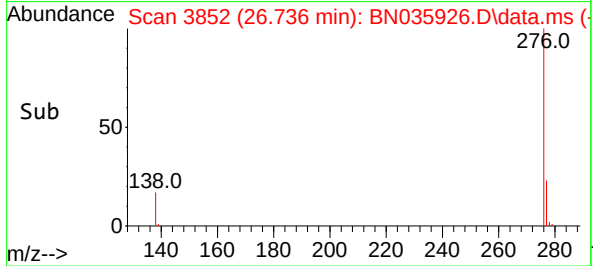
Tgt Ion:276 Resp: 2684

Ion Ratio Lower Upper

276 100

277 27.8 22.8 34.2

138 21.5 20.1 30.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
 Data File : BN035926.D
 Acq On : 15 Jan 2025 10:27
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jan 15 11:50:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	-0.01
2	1,4-Dioxane	0.397	0.422	-6.3	101	0.00
3	n-Nitrosodimethylamine	0.693	0.832	-20.1	109	-0.01
4 S	2-Fluorophenol	0.981	0.948	3.4	89	-0.01
5 S	Phenol-d6	1.219	1.144	6.2	86	0.00
6	bis(2-Chloroethyl)ether	0.929	0.895	3.7	85	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	77	0.00
8 S	Nitrobenzene-d5	0.317	0.371	-17.0	97	-0.01
9	Naphthalene	1.123	1.087	3.2	77	-0.01
10	Hexachlorobutadiene	0.365	0.370	-1.4	81	0.00
11 SURR	2-Methylnaphthalene-d10	0.536	0.500	6.7	73	0.00
12	2-Methylnaphthalene	0.695	0.651	6.3	74	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	70	0.00
14 S	2,4,6-Tribromophenol	0.192	0.238	-24.0	89	-0.01
15 S	2-Fluorobiphenyl	1.755	1.743	0.7	72	0.00
16	Acenaphthylene	1.884	1.824	3.2	70	0.00
17	Acenaphthene	1.235	1.242	-0.6	73	0.00
18	Fluorene	1.359	1.295	4.7	70	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	65	-0.01
20	4,6-Dinitro-2-methylphenol	0.069	0.113	-63.8#	110	0.00
21	4-Bromophenyl-phenylether	0.274	0.277	-1.1	68	-0.01
22	Hexachlorobenzene	0.374	0.361	3.5	66	0.00
23	Atrazine	0.184	0.191	-3.8	71	0.00
24	Pentachlorophenol	0.132	0.215	-62.9#	119	0.00
25	Phenanthrene	1.167	1.126	3.5	65	-0.01
26	Anthracene	1.062	1.049	1.2	68	0.00
27 SURR	Fluoranthene-d10	0.993	0.980	1.3	66	0.00
28	Fluoranthene	1.361	1.341	1.5	66	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	68	0.00
30	Pyrene	1.624	1.542	5.0	67	0.00
31 S	Terphenyl-d14	0.797	0.752	5.6	65	0.00
32	Benzo(a)anthracene	1.410	1.428	-1.3	72	-0.02
33	Chrysene	1.475	1.449	1.8	68	0.00
34	Bis(2-ethylhexyl)phthalate	0.574	0.607	-5.7	71	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	76	-0.02
36	Indeno(1,2,3-cd)pyrene	1.577	1.533	2.8	83	-0.03
37	Benzo(b)fluoranthene	1.374	1.269	7.6	75	-0.02
38	Benzo(k)fluoranthene	1.360	1.303	4.2	79	-0.02
39 C	Benzo(a)pyrene	1.190	1.123	5.6	79	-0.01
40	Dibenzo(a,h)anthracene	1.255	1.230	2.0	85	-0.03
41	Benzo(g,h,i)perylene	1.403	1.343	4.3	82	-0.03

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035926.D
Acq On : 15 Jan 2025 10:27
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jan 15 11:50:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	89	-0.01
2	1,4-Dioxane	0.400	0.425	-6.2	101	0.00
3	n-Nitrosodimethylamine	0.400	0.480	-20.0	109	-0.01
4 S	2-Fluorophenol	0.400	0.387	3.3	89	-0.01
5 S	Phenol-d6	0.400	0.376	6.0	86	0.00
6	bis(2-Chloroethyl)ether	0.400	0.385	3.8	85	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	77	0.00
8 S	Nitrobenzene-d5	0.400	0.468	-17.0	97	-0.01
9	Naphthalene	0.400	0.387	3.3	77	-0.01
10	Hexachlorobutadiene	0.400	0.406	-1.5	81	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.373	6.8	73	0.00
12	2-Methylnaphthalene	0.400	0.375	6.3	74	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	70	0.00
14 S	2,4,6-Tribromophenol	0.400	0.496	-24.0	89	-0.01
15 S	2-Fluorobiphenyl	0.400	0.397	0.8	72	0.00
16	Acenaphthylene	0.400	0.387	3.3	70	0.00
17	Acenaphthene	0.400	0.402	-0.5	73	0.00
18	Fluorene	0.400	0.381	4.8	70	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	65	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.648	-62.0#	110	0.00
21	4-Bromophenyl-phenylether	0.400	0.405	-1.3	68	-0.01
22	Hexachlorobenzene	0.400	0.386	3.5	66	0.00
23	Atrazine	0.400	0.416	-4.0	71	0.00
24	Pentachlorophenol	0.400	0.648	-62.0#	119	0.00
25	Phenanthrene	0.400	0.386	3.5	65	-0.01
26	Anthracene	0.400	0.395	1.3	68	0.00
27 SURR	Fluoranthene-d10	0.400	0.395	1.3	66	0.00
28	Fluoranthene	0.400	0.394	1.5	66	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	68	0.00
30	Pyrene	0.400	0.380	5.0	67	0.00
31 S	Terphenyl-d14	0.400	0.377	5.8	65	0.00
32	Benzo(a)anthracene	0.400	0.405	-1.3	72	-0.02
33	Chrysene	0.400	0.393	1.8	68	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.423	-5.7	71	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	76	-0.02
36	Indeno(1,2,3-cd)pyrene	0.400	0.389	2.8	83	-0.03
37	Benzo(b)fluoranthene	0.400	0.369	7.8	75	-0.02
38	Benzo(k)fluoranthene	0.400	0.383	4.3	79	-0.02
39 C	Benzo(a)pyrene	0.400	0.378	5.5	79	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.392	2.0	85	-0.03
41	Benzo(g,h,i)perylene	0.400	0.383	4.3	82	-0.03

(#) = 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.: Q1081 SAS No.: Q1081 SDG No.: Q1081

Instrument ID: BNA_N Calibration Date/Time: 01/15/2025 17:36

Lab File ID: BN035935.D Init. Calib. Date(s): 01/02/2025 01/02/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:28 15:04

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.536	0.523		-2.4	50.0
Fluoranthene-d10	0.993	0.980		-1.3	50.0
2-Fluorophenol	0.981	0.914		-6.8	50.0
Phenol-d6	1.219	1.108		-9.1	50.0
Nitrobenzene-d5	0.317	0.340		7.3	50.0
2-Fluorobiphenyl	1.755	1.796		2.3	50.0
2,4,6-Tribromophenol	0.192	0.267		39.1	50.0
Terphenyl-d14	0.797	0.817		2.5	50.0
1,4-Dioxane	0.397	0.388		-2.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
 Data File : BN035935.D
 Acq On : 15 Jan 2025 17:36
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jan 15 18:18:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

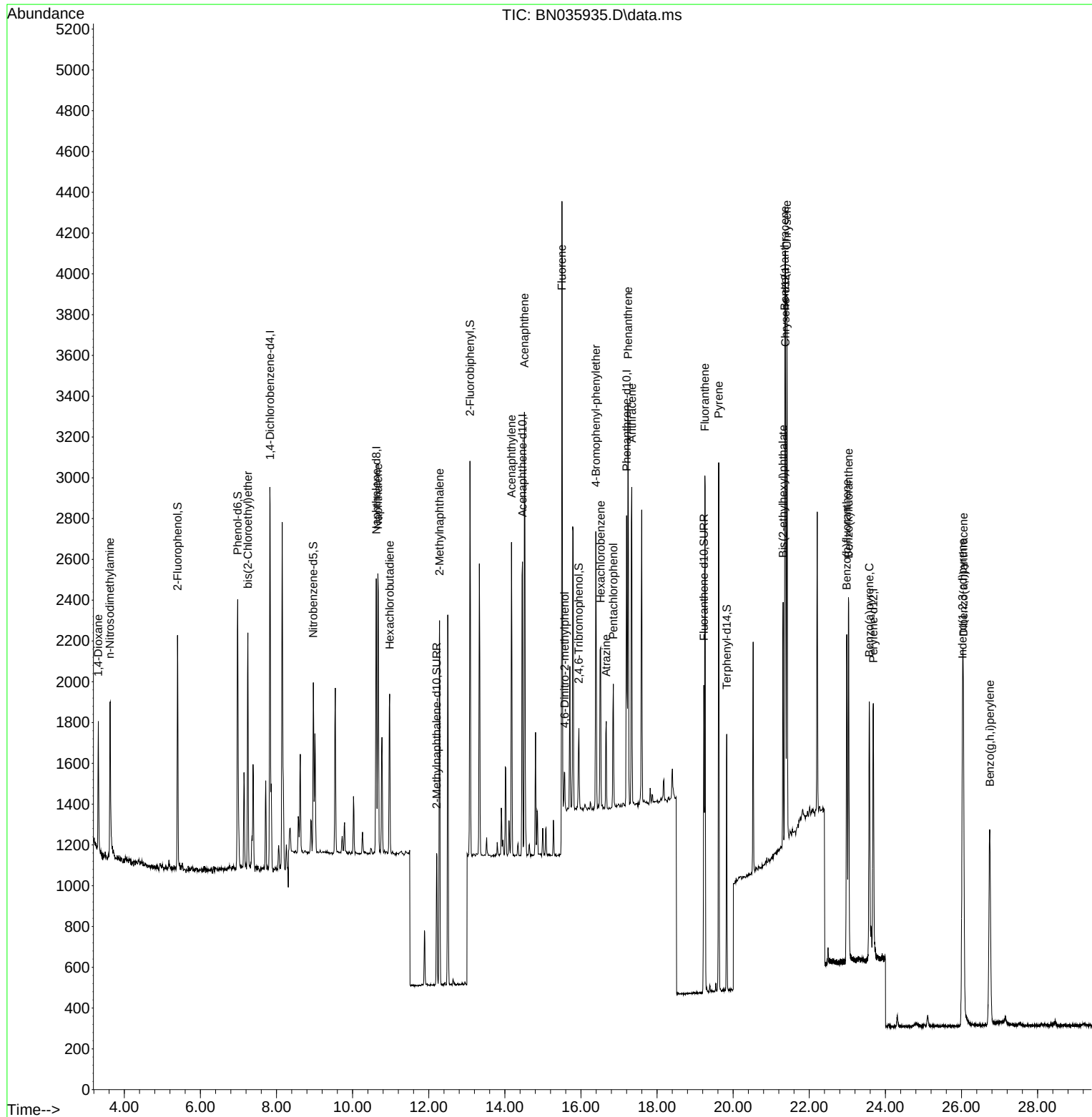
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	876	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1636	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	842	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1736	0.400	ng	-0.01
29) Chrysene-d12	21.376	240	1462	0.400	ng	0.00
35) Perylene-d12	23.683	264	1643	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.398	112	801	0.373	ng	-0.01
5) Phenol-d6	6.979	99	971	0.364	ng	0.00
8) Nitrobenzene-d5	8.967	82	557	0.430	ng	-0.01
11) 2-Methylnaphthalene-d10	12.208	152	855	0.390	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	225	0.557	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	1512	0.409	ng	0.00
27) Fluoranthene-d10	19.230	212	1701	0.395	ng	0.00
31) Terphenyl-d14	19.829	244	1194	0.410	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.318	88	340	0.391	ng	# 91
3) n-Nitrosodimethylamine	3.621	42	747	0.492	ng	# 78
6) bis(2-Chloroethyl)ether	7.247	93	729	0.359	ng	95
9) Naphthalene	10.664	128	1816	0.395	ng	97
10) Hexachlorobutadiene	10.974	225	643	0.431	ng	# 100
12) 2-Methylnaphthalene	12.284	142	1134	0.399	ng	96
16) Acenaphthylene	14.174	152	1570	0.396	ng	99
17) Acenaphthene	14.516	154	1098	0.422	ng	93
18) Fluorene	15.500	166	1138	0.398	ng	97
20) 4,6-Dinitro-2-methylph...	15.573	198	176	0.584	ng	# 76
21) 4-Bromophenyl-phenylether	16.392	248	495	0.416	ng	93
22) Hexachlorobenzene	16.516	284	657	0.405	ng	99
23) Atrazine	16.665	200	366	0.458	ng	# 91
24) Pentachlorophenol	16.851	266	312	0.543	ng	97
25) Phenanthrene	17.236	178	1966	0.388	ng	100
26) Anthracene	17.335	178	1787	0.388	ng	99
28) Fluoranthene	19.258	202	2316	0.392	ng	# 98
30) Pyrene	19.620	202	2348	0.396	ng	99
32) Benzo(a)anthracene	21.358	228	2076	0.403	ng	98
33) Chrysene	21.412	228	2108	0.391	ng	96
34) Bis(2-ethylhexyl)phtha...	21.313	149	1046	0.499	ng	# 94
36) Indeno(1,2,3-cd)pyrene	26.025	276	2530	0.390	ng	# 95
37) Benzo(b)fluoranthene	22.985	252	2163	0.383	ng	96
38) Benzo(k)fluoranthene	23.034	252	2259	0.404	ng	99
39) Benzo(a)pyrene	23.578	252	1887	0.386	ng	96
40) Dibenzo(a,h)anthracene	26.049	278	2030	0.394	ng	95
41) Benzo(g,h,i)perylene	26.744	276	2167	0.376	ng	# 94

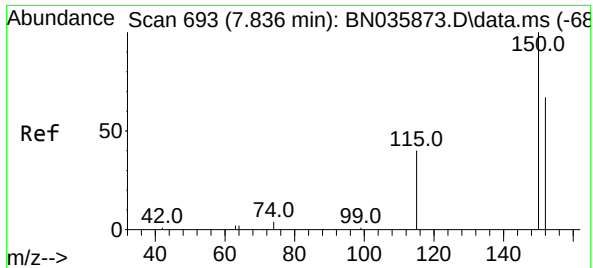
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035935.D
Acq On : 15 Jan 2025 17:36
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

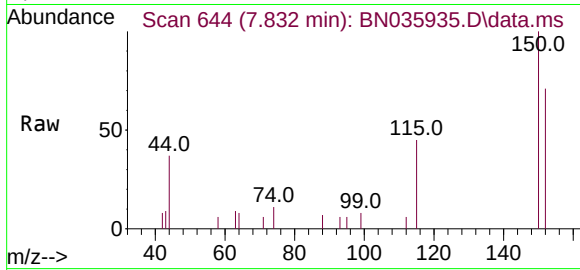
Quant Time: Jan 15 18:18:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration



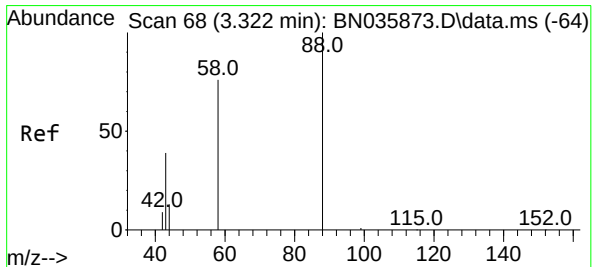
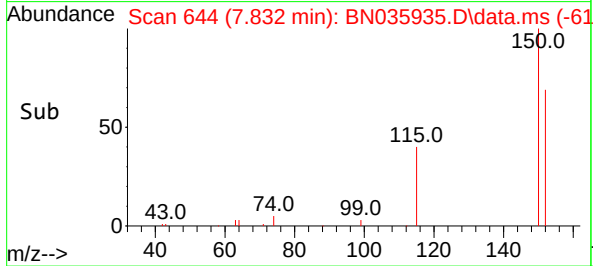
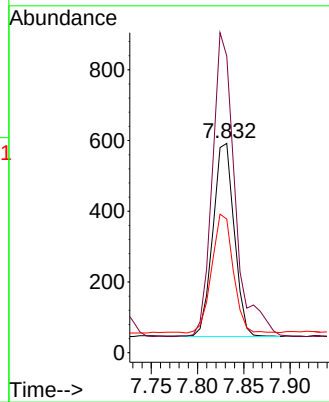


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.005 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

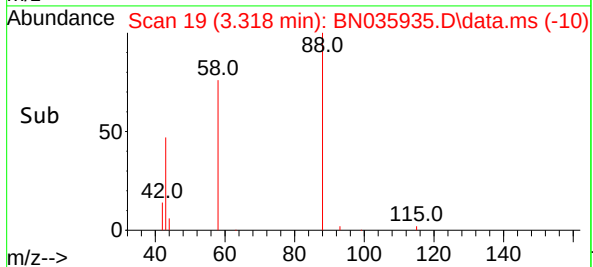
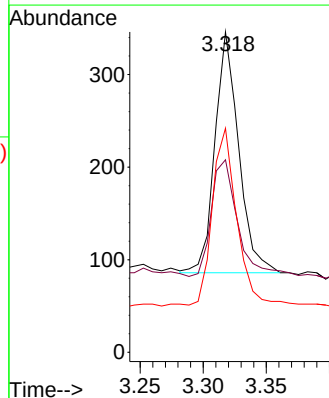
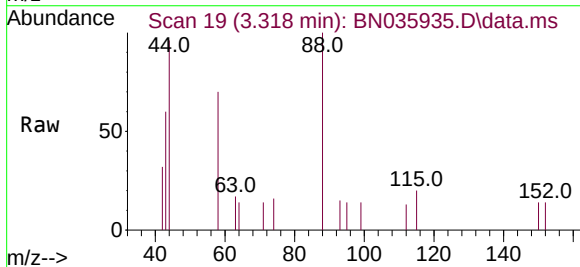


Tgt Ion:152 Resp: 876
Ion Ratio Lower Upper
152 100
150 141.7 117.8 176.6
115 63.9 51.0 76.4

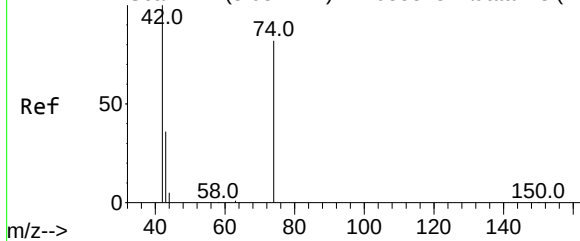


#2
1,4-Dioxane
Concen: 0.391 ng
RT: 3.318 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion: 88 Resp: 340
Ion Ratio Lower Upper
88 100
43 53.2 32.7 49.1#
58 75.9 63.0 94.4



Abundance Scan 111 (3.632 min): BN035873.D\data.ms (-10



#3

n-Nitrosodimethylamine

Concen: 0.492 ng

RT: 3.621 min Scan# 61

Delta R.T. -0.011 min

Lab File: BN035935.D

Acq: 15 Jan 2025 17:36

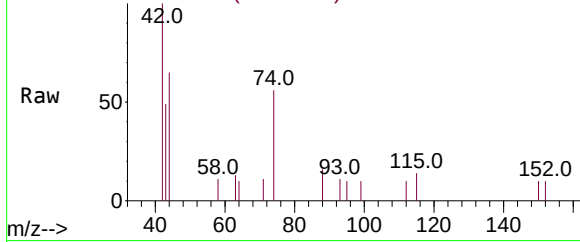
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Abundance Scan 61 (3.621 min): BN035935.D\data.ms



Tgt Ion: 42 Resp: 747

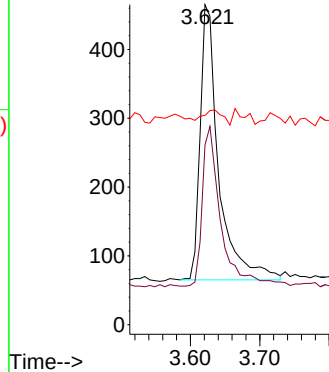
Ion Ratio Lower Upper

42 100

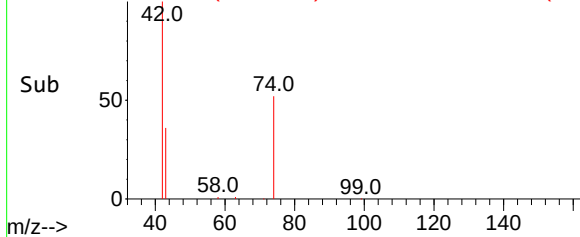
74 57.4 62.2 93.2#

44 5.6 7.1 10.7#

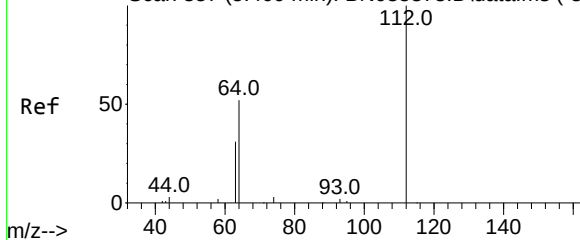
Abundance



Abundance Scan 61 (3.621 min): BN035935.D\data.ms (-42)



Abundance Scan 357 (5.409 min): BN035873.D\data.ms (-34



#4

2-Fluorophenol

Concen: 0.373 ng

RT: 5.398 min Scan# 307

Delta R.T. -0.011 min

Lab File: BN035935.D

Acq: 15 Jan 2025 17:36

Tgt Ion: 112 Resp: 801

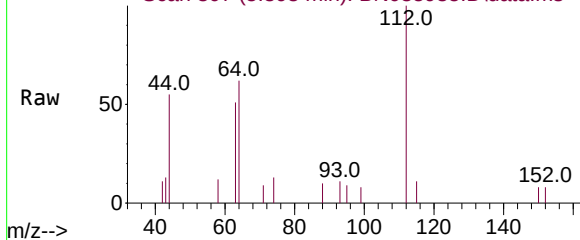
Ion Ratio Lower Upper

112 100

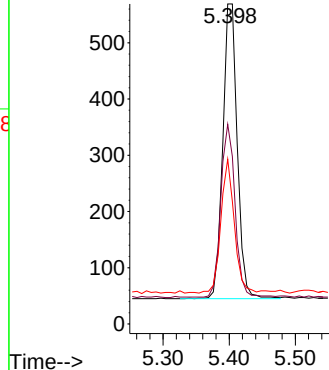
64 57.4 48.2 72.2

63 41.2 30.0 45.0

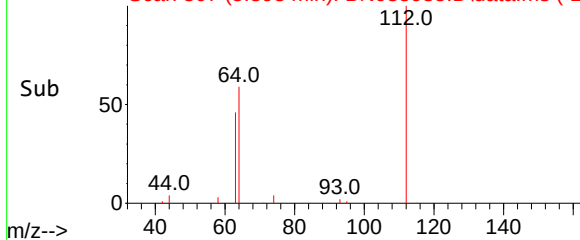
Abundance Scan 307 (5.398 min): BN035935.D\data.ms

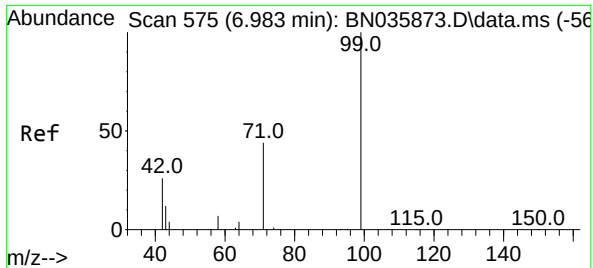


Abundance



Abundance Scan 307 (5.398 min): BN035935.D\data.ms (-28

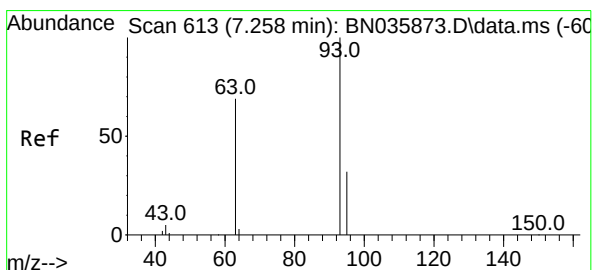
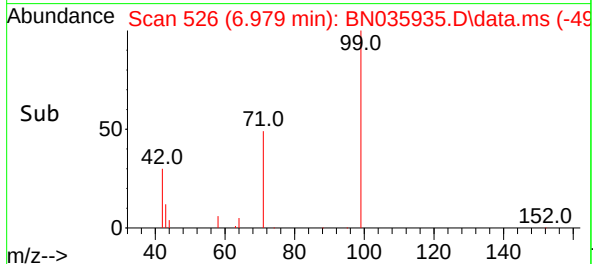
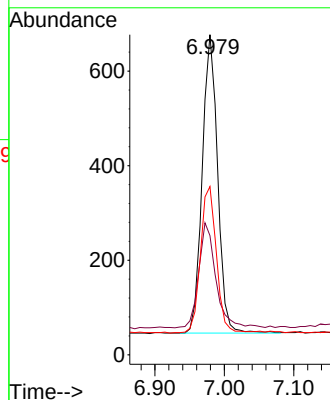
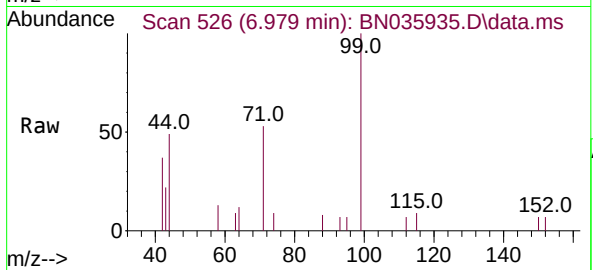




#5
Phenol-d6
Concen: 0.364 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

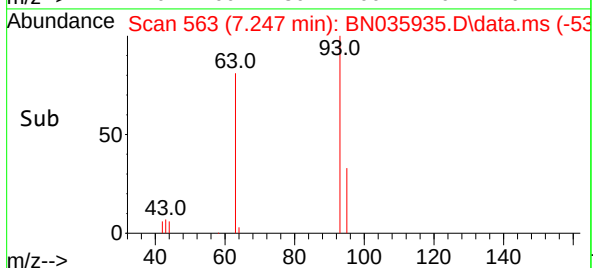
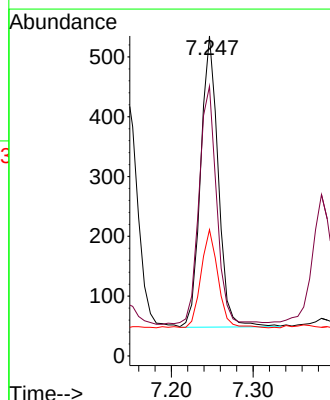
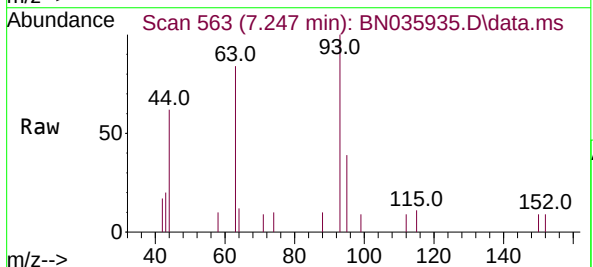
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

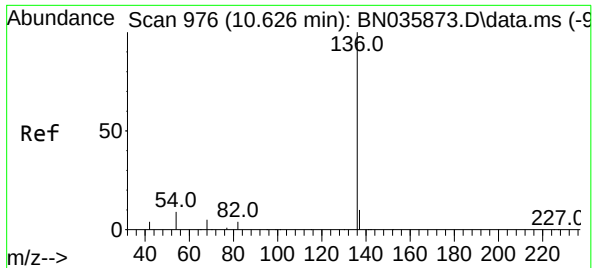
Tgt Ion: 99 Resp: 971
Ion Ratio Lower Upper
99 100
42 39.8 23.5 35.3#
71 50.9 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.359 ng
RT: 7.247 min Scan# 563
Delta R.T. -0.011 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion: 93 Resp: 729
Ion Ratio Lower Upper
93 100
63 82.4 62.0 93.0
95 32.8 25.5 38.3

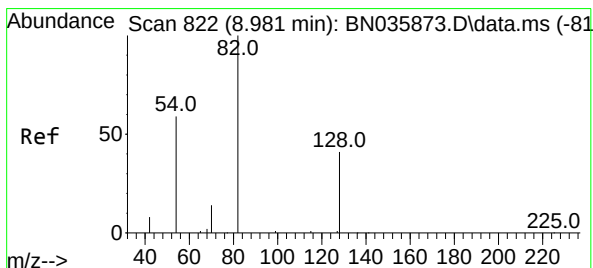
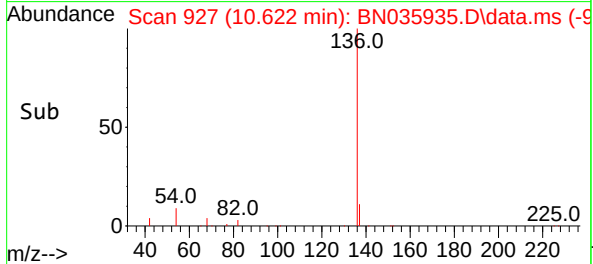
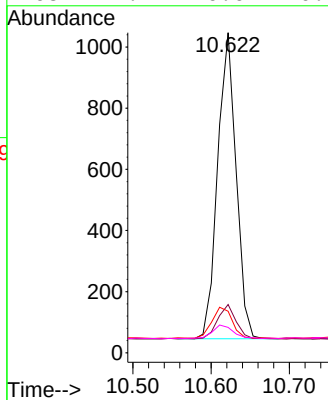
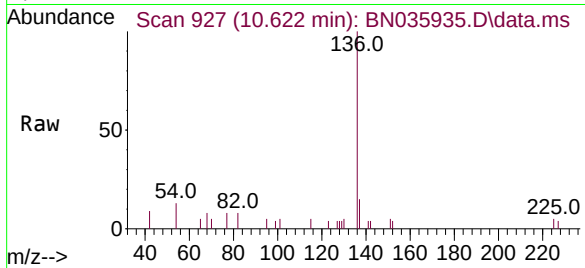




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

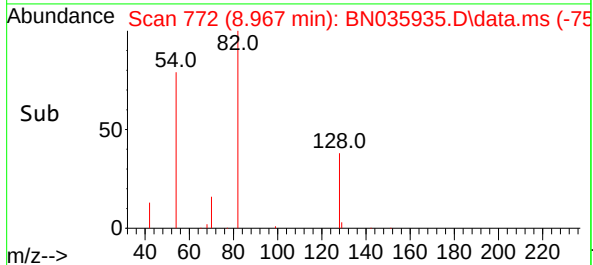
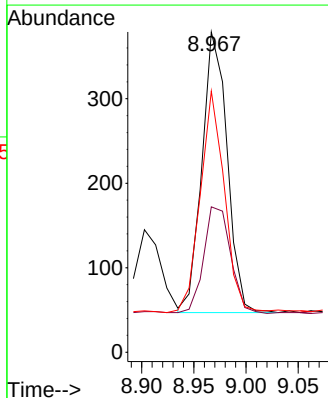
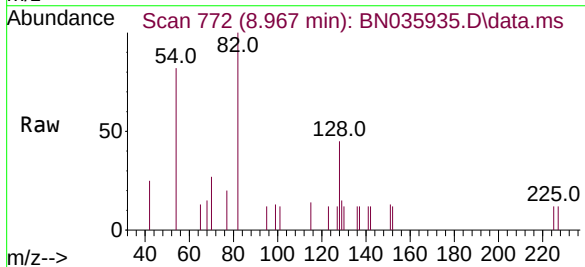
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

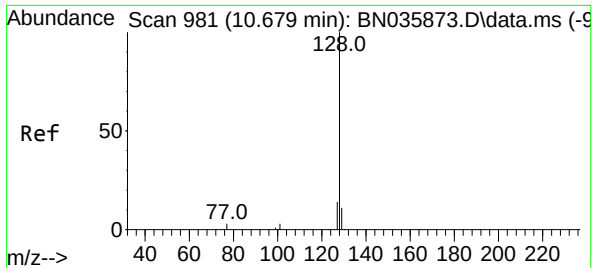
Tgt Ion:	136	Resp:	1636
Ion	Ratio	Lower	Upper
136	100		
137	15.1	10.6	15.8
54	13.0	9.8	14.6
68	7.9	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.430 ng
RT: 8.967 min Scan# 772
Delta R.T. -0.015 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion:	82	Resp:	557
Ion	Ratio	Lower	Upper
82	100		
128	45.4	36.9	55.3
54	81.5	50.4	75.6

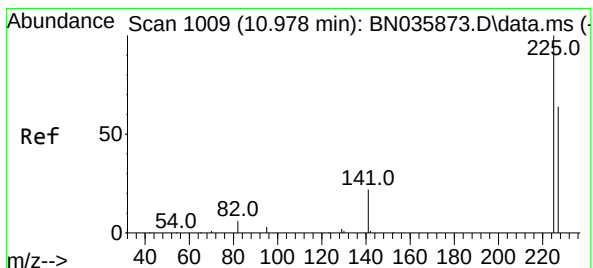
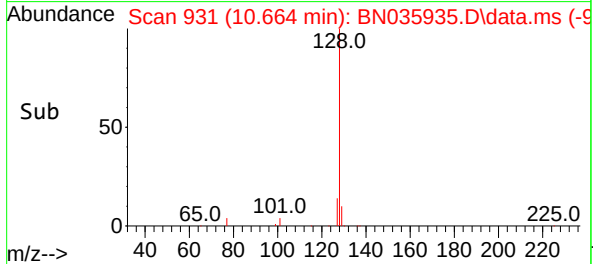
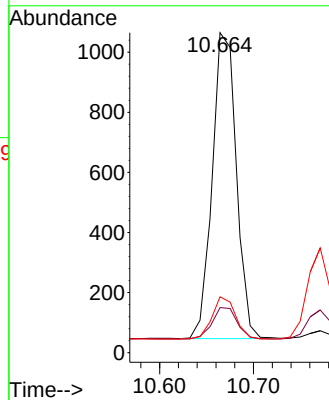
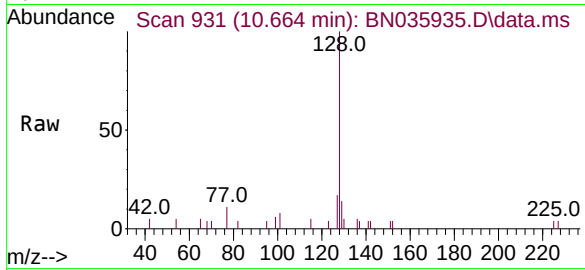




#9
Naphthalene
Concen: 0.395 ng
RT: 10.664 min Scan# 91
Delta R.T. -0.015 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

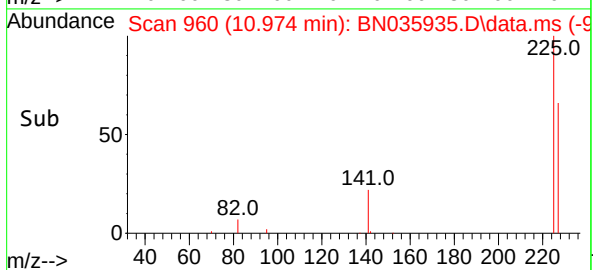
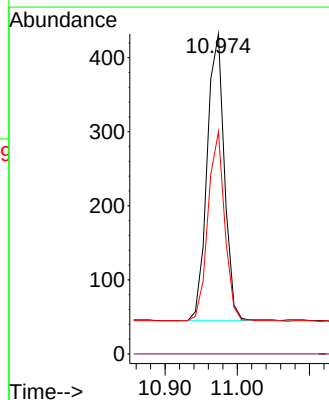
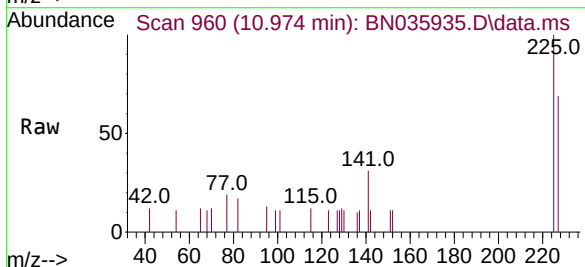
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

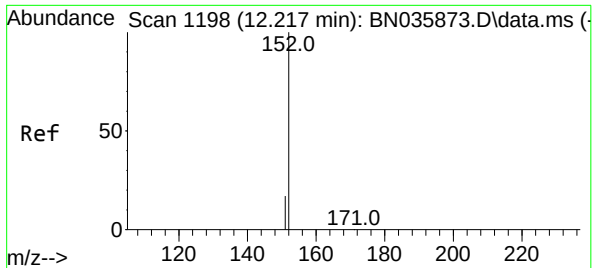
Tgt Ion:	128	Resp:	1816
Ion	Ratio	Lower	Upper
128	100		
129	14.1	10.6	16.0
127	17.5	12.8	19.2



#10
Hexachlorobutadiene
Concen: 0.431 ng
RT: 10.974 min Scan# 960
Delta R.T. -0.004 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion:	225	Resp:	643
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.5	77.3

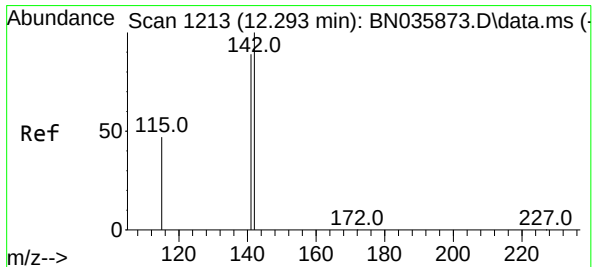
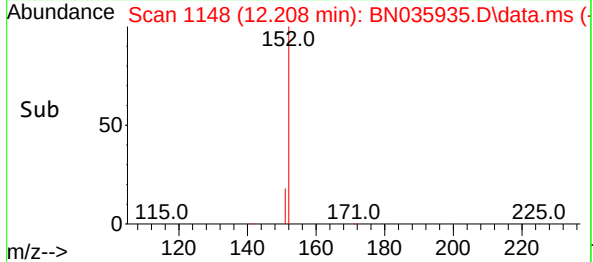
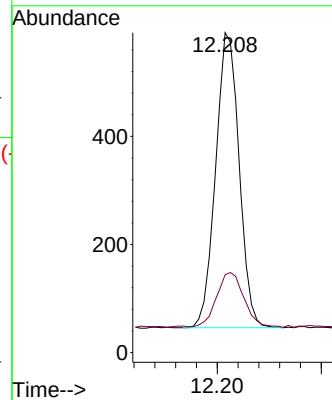
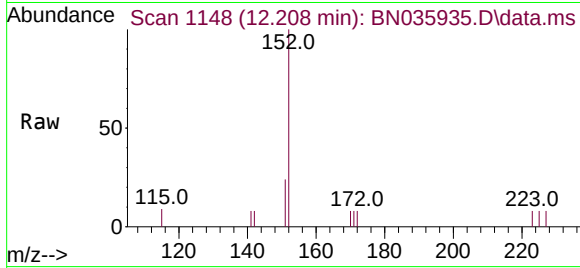




#11
2-Methylnaphthalene-d10
Concen: 0.390 ng
RT: 12.208 min Scan# 111
Delta R.T. -0.009 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

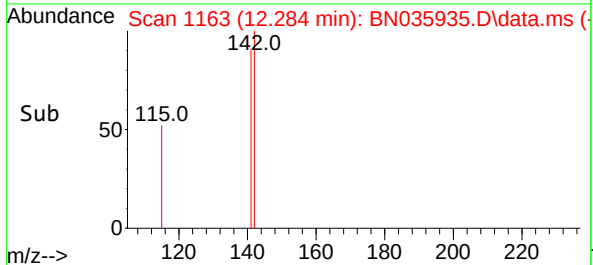
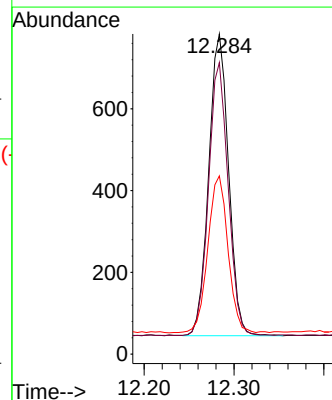
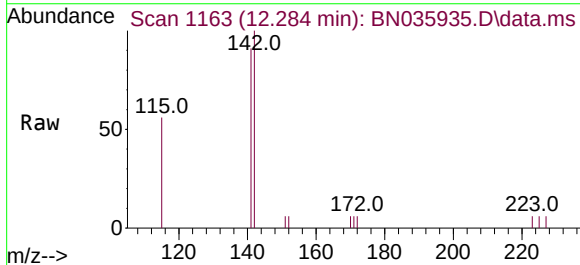
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

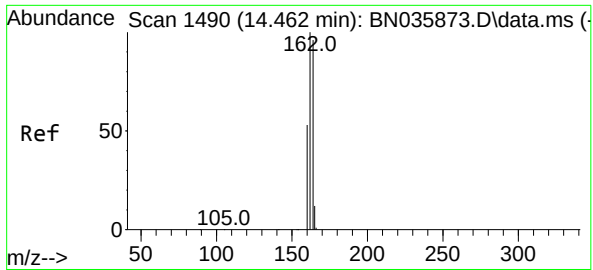
Tgt Ion:152 Resp: 855
Ion Ratio Lower Upper
152 100
151 21.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.399 ng
RT: 12.284 min Scan# 1163
Delta R.T. -0.009 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion:142 Resp: 1134
Ion Ratio Lower Upper
142 100
141 91.1 71.9 107.9
115 55.7 39.6 59.4

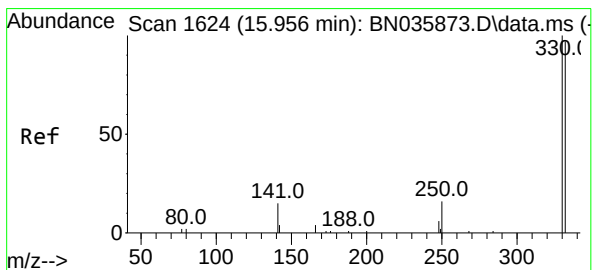
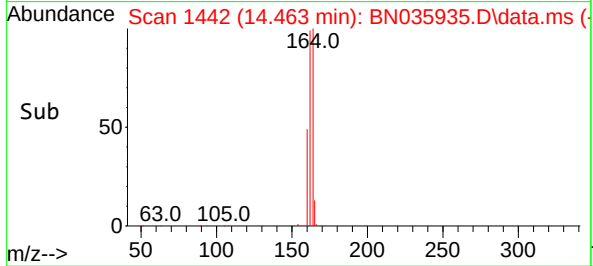
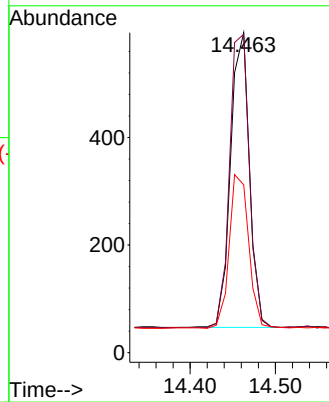
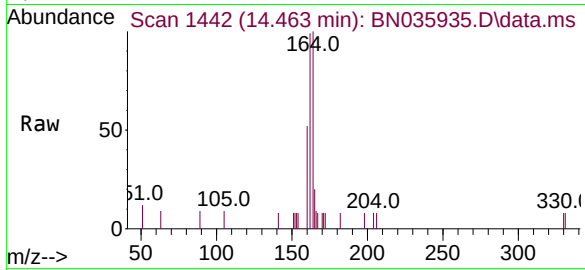




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

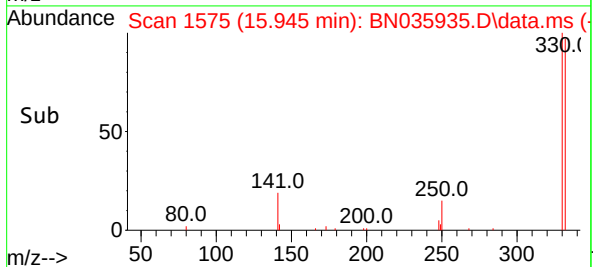
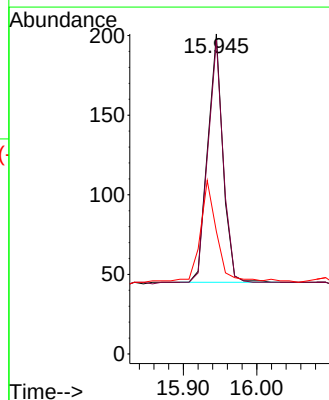
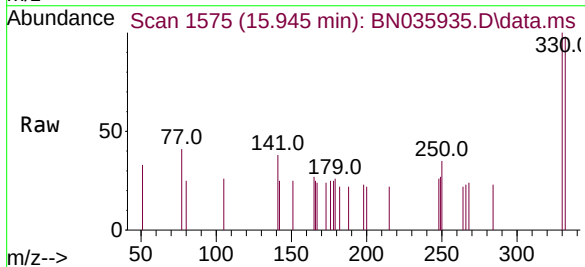
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

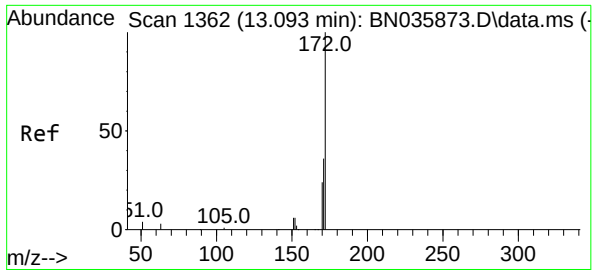
Tgt Ion:164 Resp: 842
Ion Ratio Lower Upper
164 100
162 99.5 83.1 124.7
160 52.4 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 0.557 ng
RT: 15.945 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion:330 Resp: 225
Ion Ratio Lower Upper
330 100
332 101.8 77.2 115.8
141 47.1 31.6 47.4

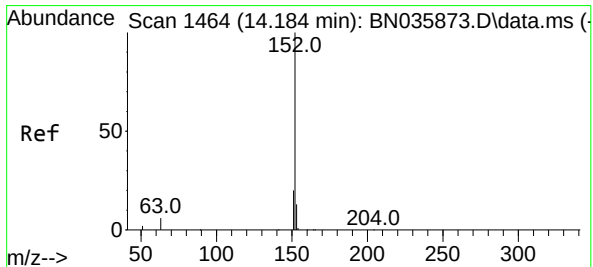
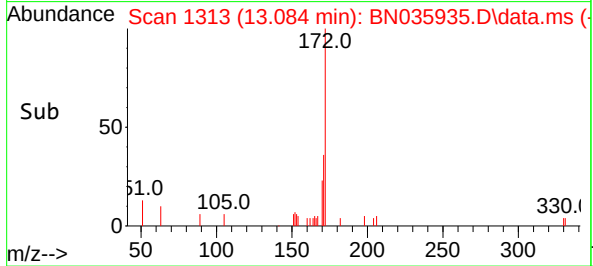
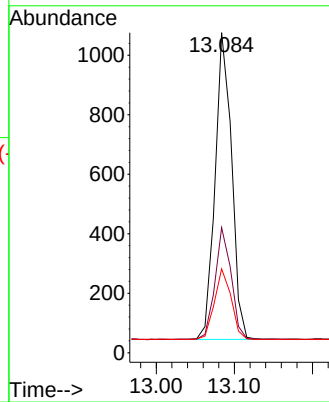
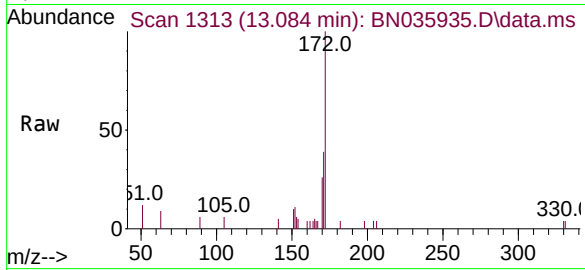




#15
2-Fluorobiphenyl
Concen: 0.409 ng
RT: 13.084 min Scan# 1412
Delta R.T. -0.010 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

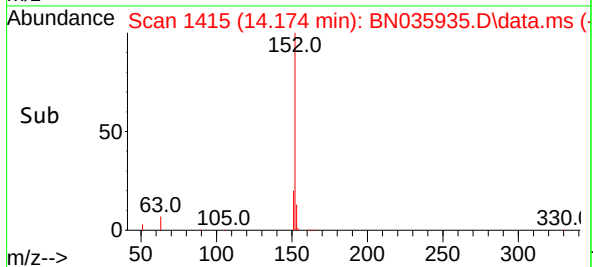
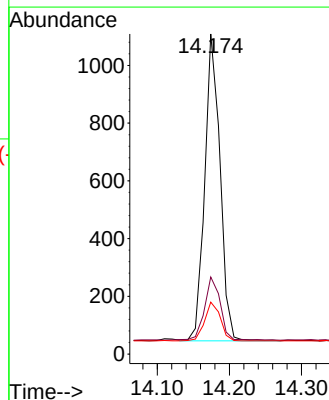
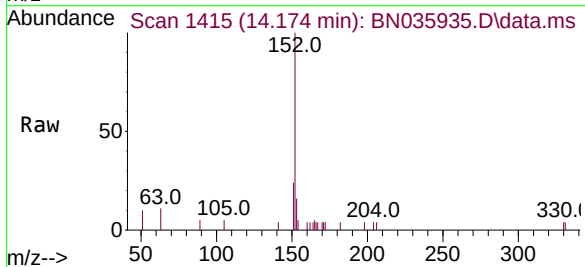
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

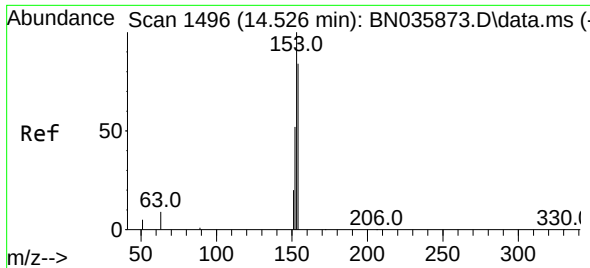
Tgt Ion:	172	Resp:	1512
Ion	Ratio	Lower	Upper
172	100		
171	39.1	30.5	45.7
170	26.2	20.8	31.2



#16
Acenaphthylene
Concen: 0.396 ng
RT: 14.174 min Scan# 1415
Delta R.T. -0.010 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion:	152	Resp:	1570
Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.3	24.5
153	13.2	10.6	15.8

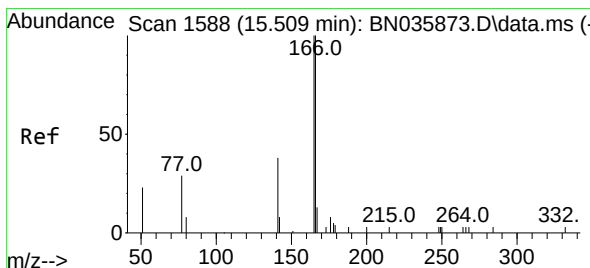
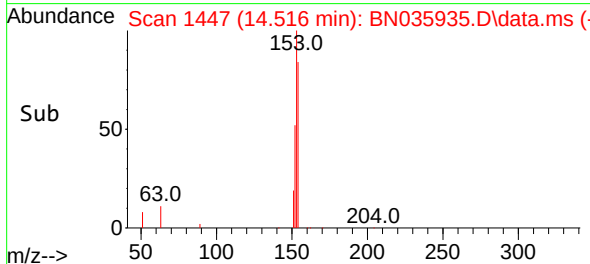
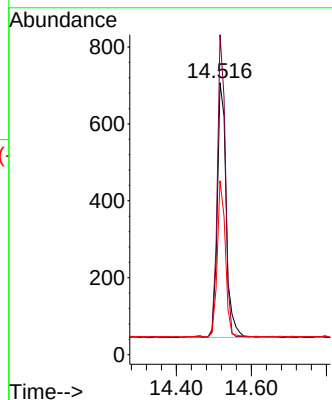
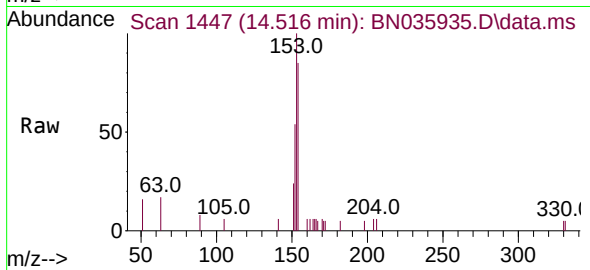




#17
Acenaphthene
Concen: 0.422 ng
RT: 14.516 min Scan# 1496
Delta R.T. -0.010 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

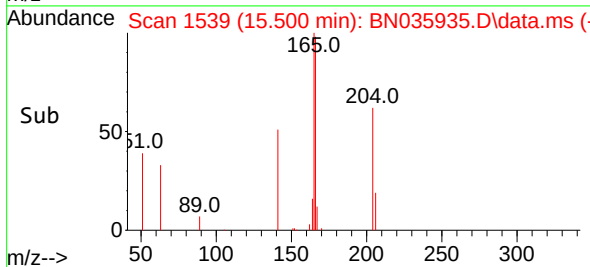
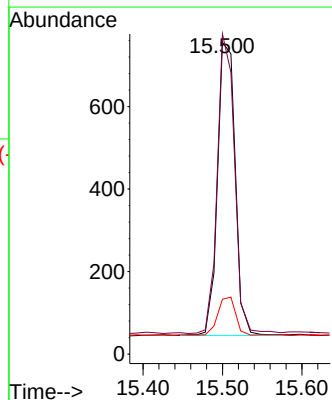
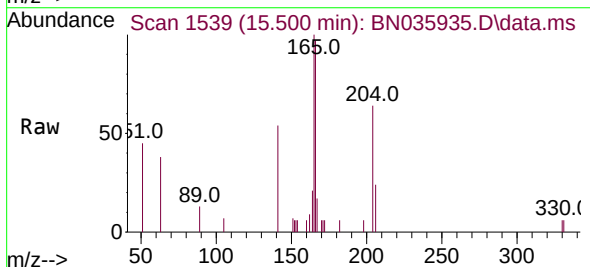
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

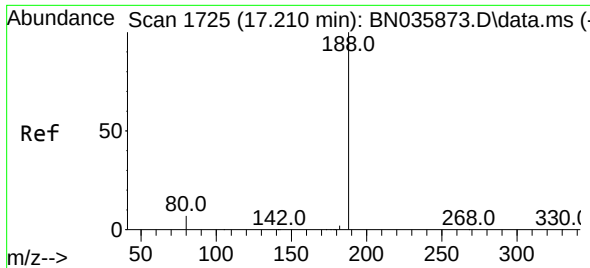
Tgt Ion:154 Resp: 1098
Ion Ratio Lower Upper
154 100
153 106.5 90.5 135.7
152 55.4 48.6 73.0



#18
Fluorene
Concen: 0.398 ng
RT: 15.500 min Scan# 1539
Delta R.T. -0.010 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion:166 Resp: 1138
Ion Ratio Lower Upper
166 100
165 97.9 80.6 120.8
167 13.8 11.4 17.0

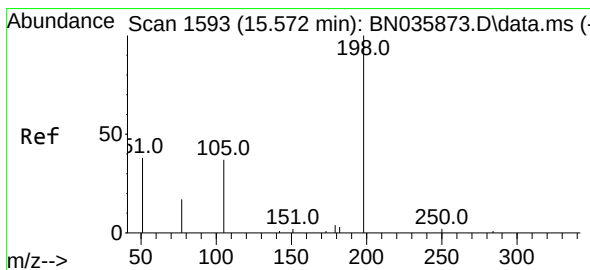
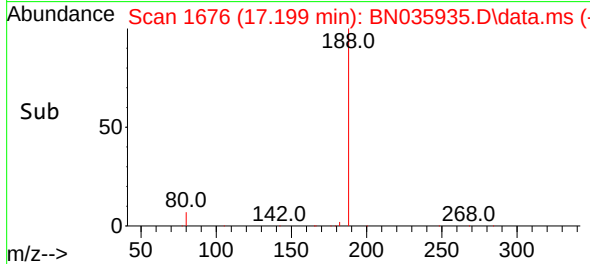
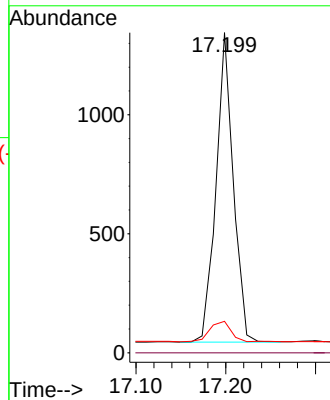
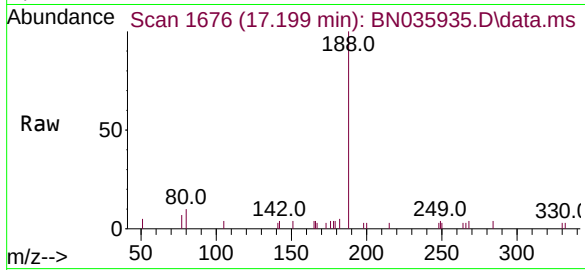




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.199 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

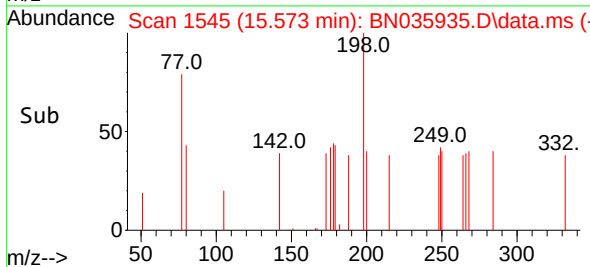
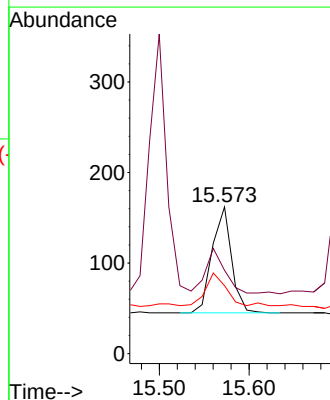
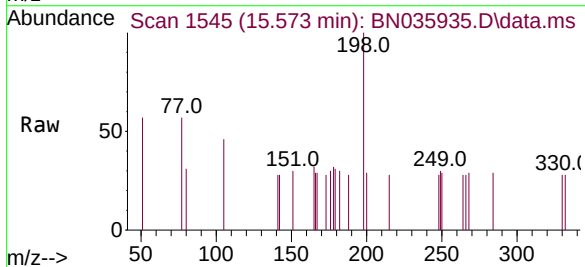
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

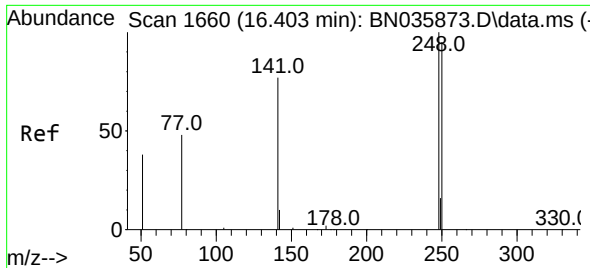
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.8	7.3	10.9



#20
4,6-Dinitro-2-methylphenol
Concen: 0.584 ng
RT: 15.573 min Scan# 1545
Delta R.T. 0.001 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion	Ratio	Lower	Upper
198	100		
51	56.8	64.3	96.5#
105	46.3	50.0	75.0#

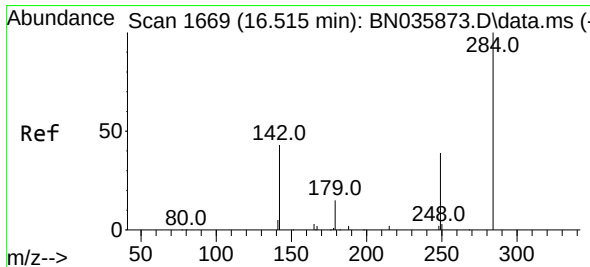
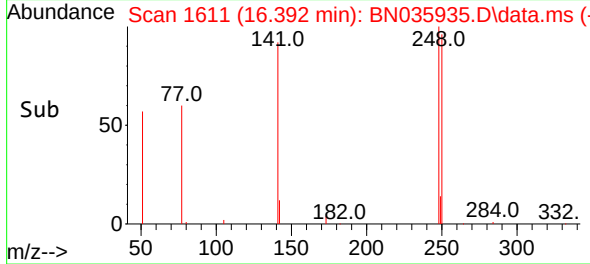
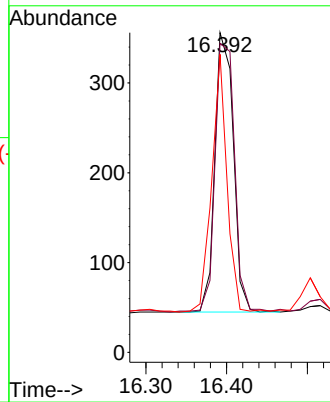
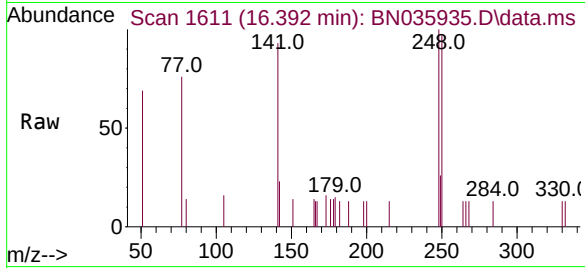




#21
4-Bromophenyl-phenylether
Concen: 0.416 ng
RT: 16.392 min Scan# 1611
Delta R.T. -0.011 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

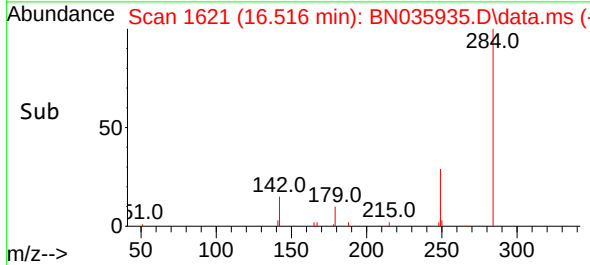
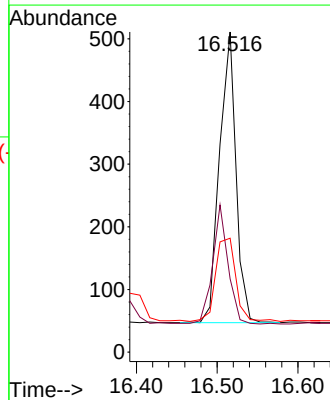
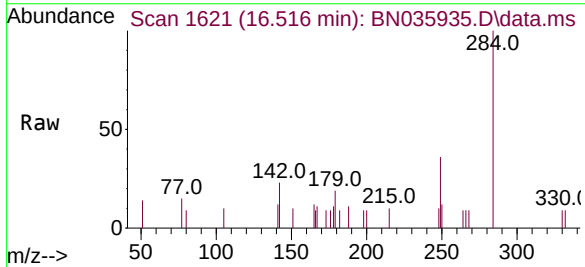
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

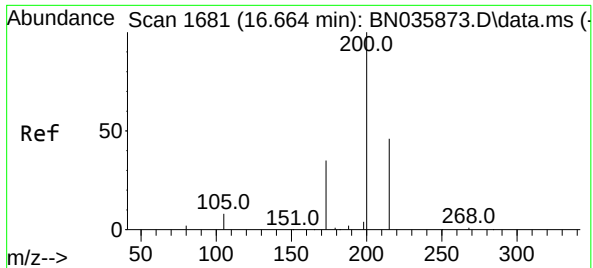
Tgt Ion:	248	Resp:	495
Ion Ratio	Lower	Upper	
248	100		
250	96.6	76.8	115.2
141	93.3	63.6	95.4



#22
Hexachlorobenzene
Concen: 0.405 ng
RT: 16.516 min Scan# 1621
Delta R.T. 0.001 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion:	284	Resp:	657
Ion Ratio	Lower	Upper	
284	100		
142	38.4	31.4	47.0
249	35.5	27.8	41.8

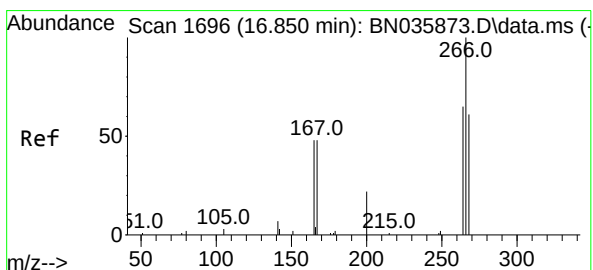
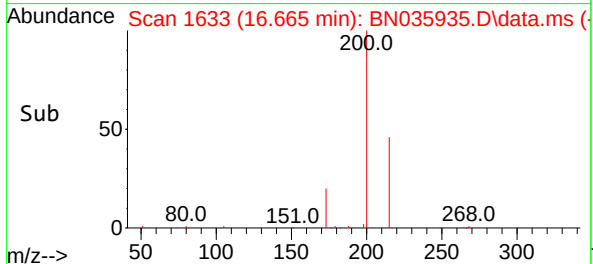
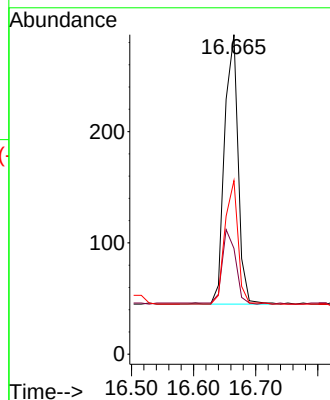
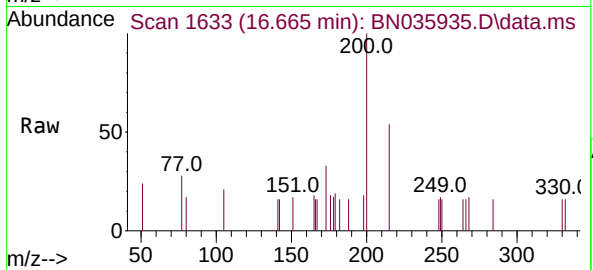




#23
Atrazine
Concen: 0.458 ng
RT: 16.665 min Scan# 1633
Delta R.T. 0.001 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

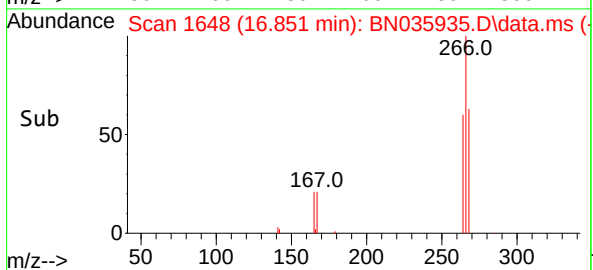
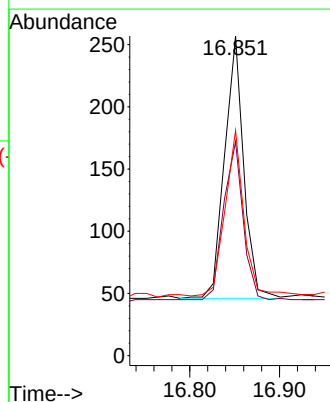
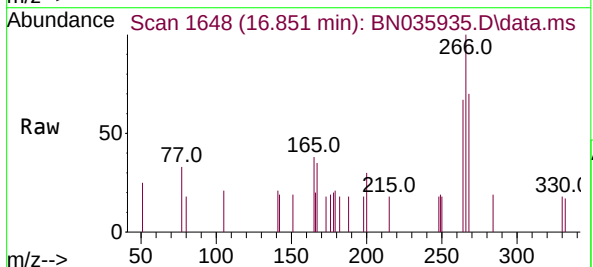
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

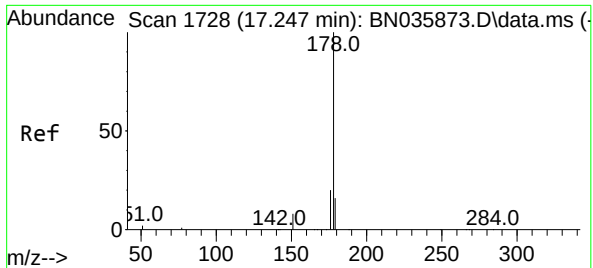
Tgt Ion:200 Resp: 366
Ion Ratio Lower Upper
200 100
173 33.1 35.4 53.0#
215 54.4 42.4 63.6



#24
Pentachlorophenol
Concen: 0.543 ng
RT: 16.851 min Scan# 1648
Delta R.T. 0.001 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion:266 Resp: 312
Ion Ratio Lower Upper
266 100
264 61.2 49.9 74.9
268 66.0 50.2 75.2

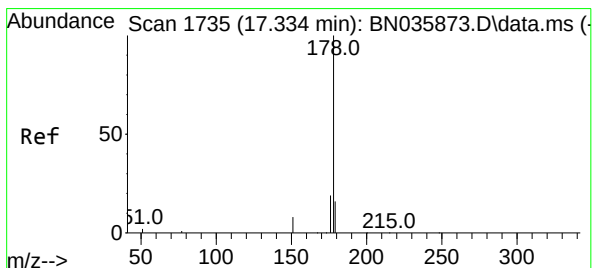
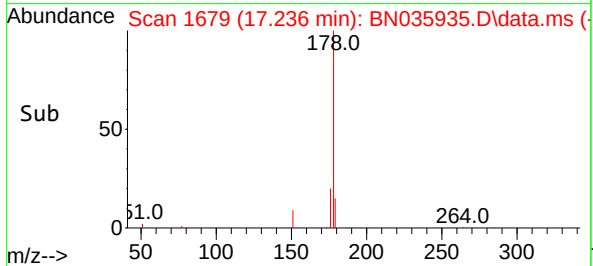
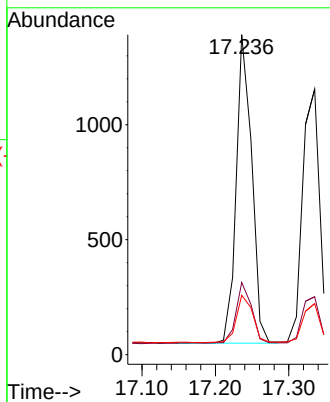
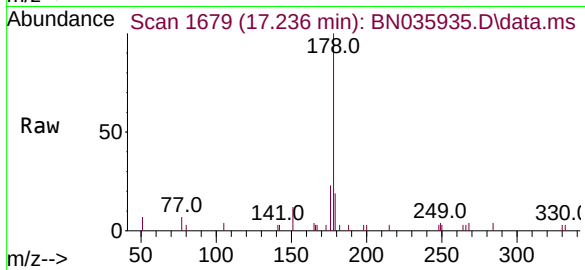




#25
Phenanthrene
Concen: 0.388 ng
RT: 17.236 min Scan# 1679
Delta R.T. -0.011 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

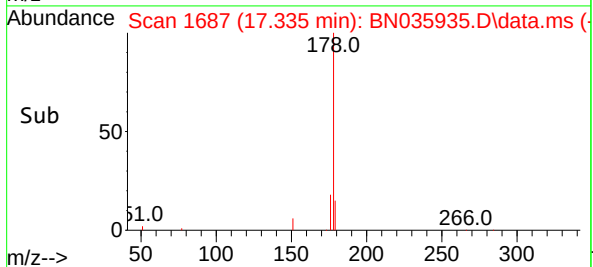
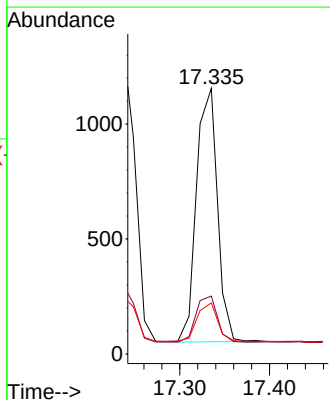
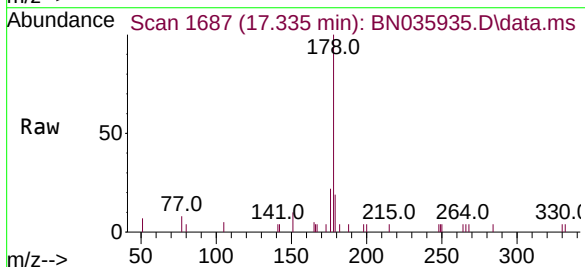
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

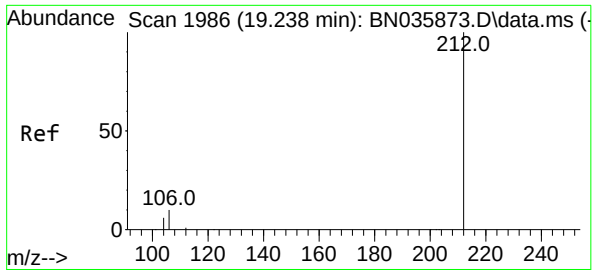
Tgt Ion:178 Resp: 1966
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 16.4 12.9 19.3



#26
Anthracene
Concen: 0.388 ng
RT: 17.335 min Scan# 1687
Delta R.T. 0.001 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion:178 Resp: 1787
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.5 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.395 ng

RT: 19.230 min Scan# 1942

Delta R.T. -0.008 min

Lab File: BN035935.D

Acq: 15 Jan 2025 17:36

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

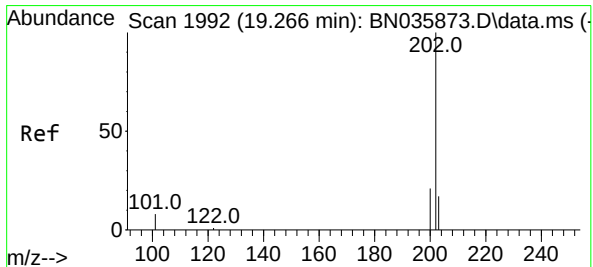
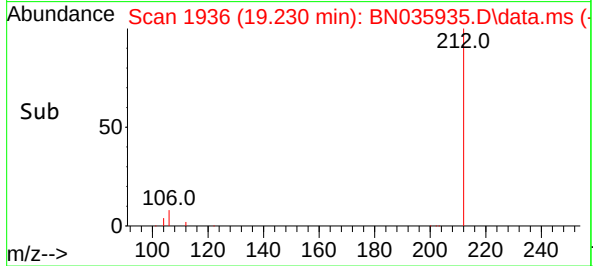
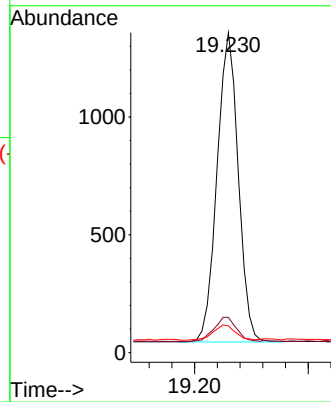
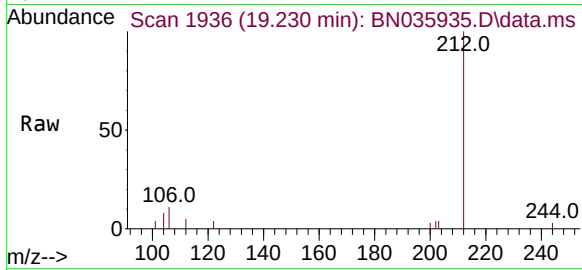
Tgt Ion:212 Resp: 1701

Ion Ratio Lower Upper

212 100

106 8.6 9.0 13.6#

104 5.1 5.4 8.2#



#28

Fluoranthene

Concen: 0.392 ng

RT: 19.258 min Scan# 1942

Delta R.T. -0.008 min

Lab File: BN035935.D

Acq: 15 Jan 2025 17:36

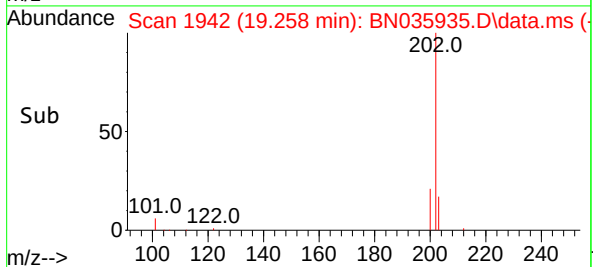
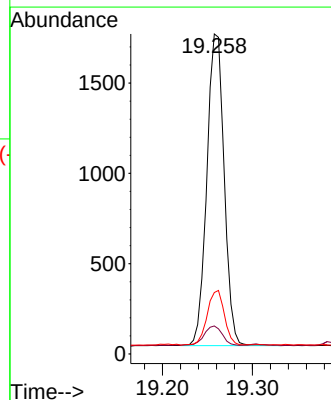
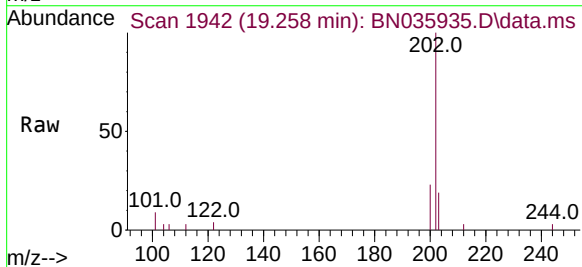
Tgt Ion:202 Resp: 2316

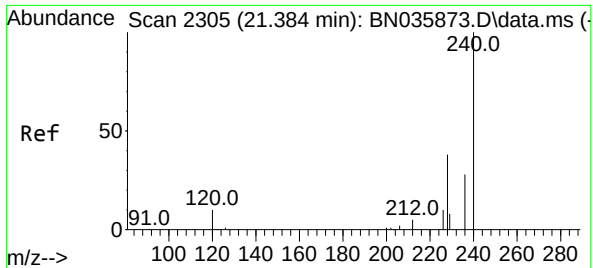
Ion Ratio Lower Upper

202 100

101 6.6 7.2 10.8#

203 17.4 13.9 20.9

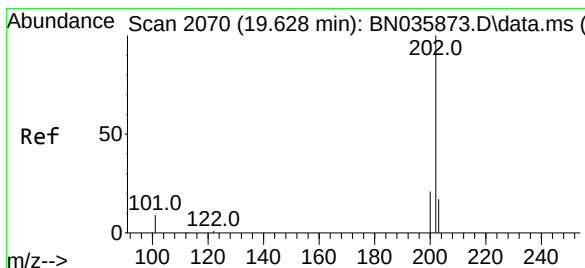
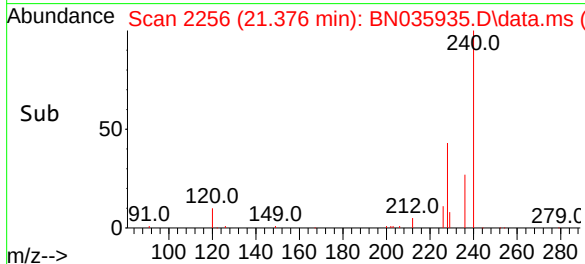
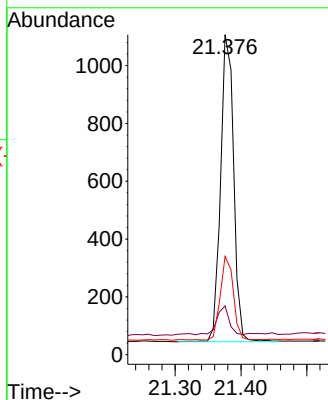
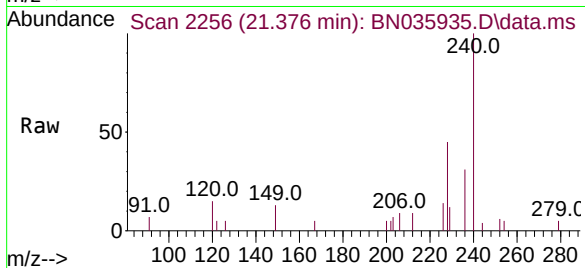




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.376 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

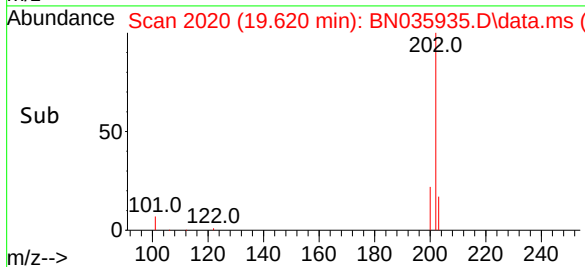
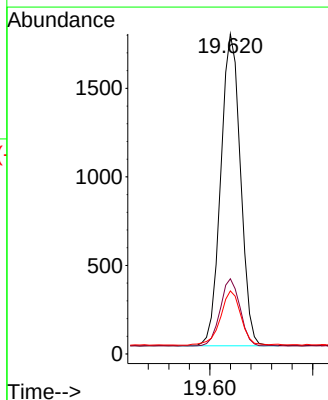
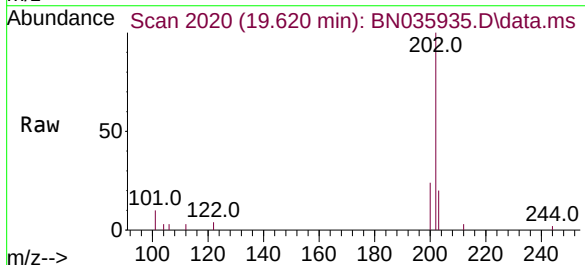
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

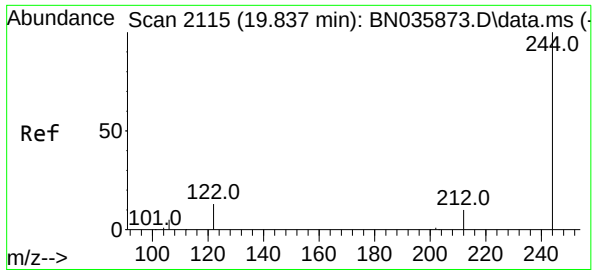
Tgt Ion:	240	Resp:	1462
Ion Ratio	Lower	Upper	
240	100		
120	15.3	11.1	16.7
236	30.7	24.6	36.8



#30
Pyrene
Concen: 0.396 ng
RT: 19.620 min Scan# 2020
Delta R.T. -0.008 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion:	202	Resp:	2348
Ion Ratio	Lower	Upper	
202	100		
200	21.7	17.0	25.6
203	18.0	14.6	22.0

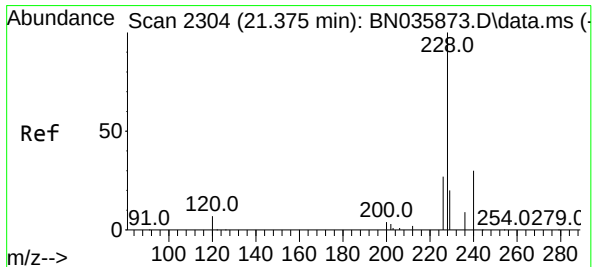
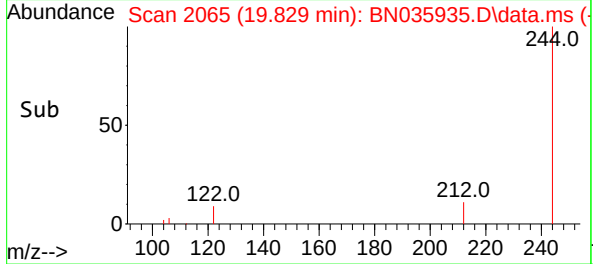
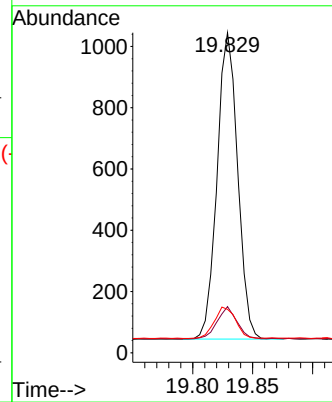
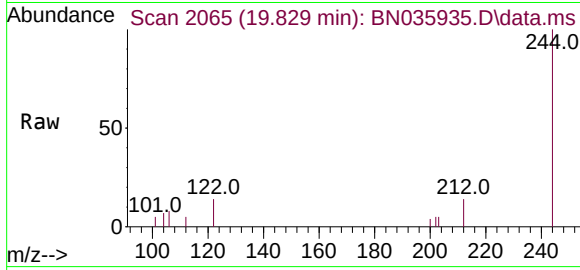




#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.829 min Scan# 2065
Delta R.T. -0.008 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

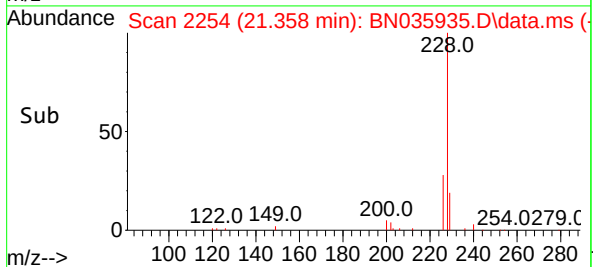
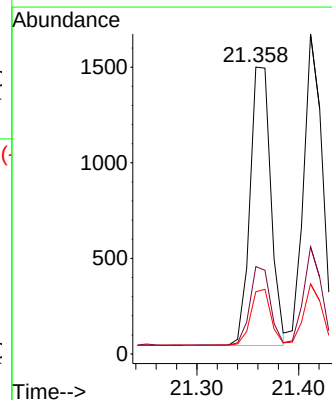
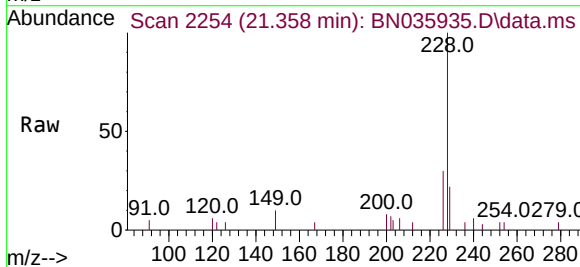
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

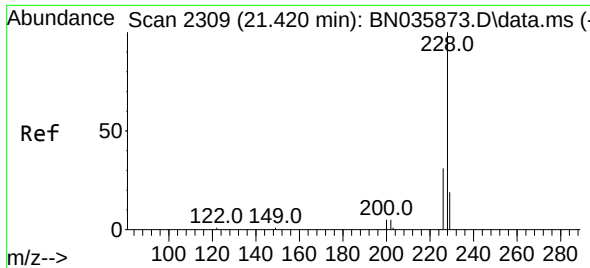
Tgt Ion:244	Resp:	1194
Ion Ratio	Lower	Upper
244	100	
212	14.4	10.1 15.1
122	13.6	12.2 18.4



#32
Benzo(a)anthracene
Concen: 0.403 ng
RT: 21.358 min Scan# 2254
Delta R.T. -0.017 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion:228	Resp:	2076
Ion Ratio	Lower	Upper
228	100	
226	30.4	22.7 34.1
229	21.7	17.1 25.7





#33

Chrysene

Concen: 0.391 ng

RT: 21.412 min Scan# 21

Delta R.T. -0.008 min

Lab File: BN035935.D

Acq: 15 Jan 2025 17:36

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

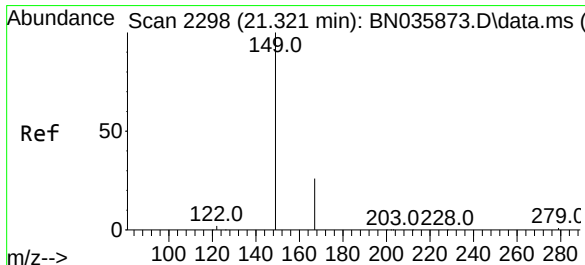
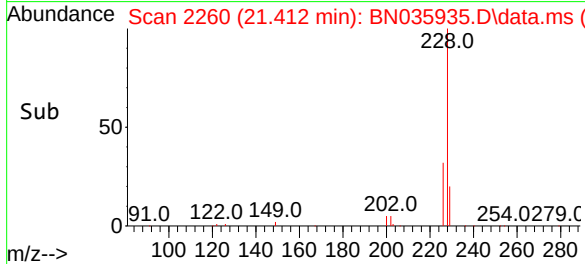
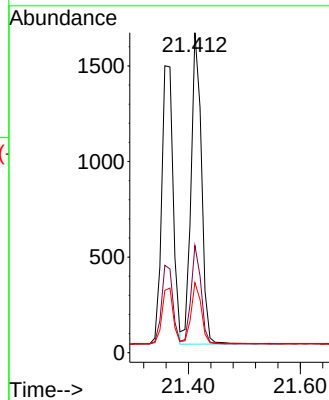
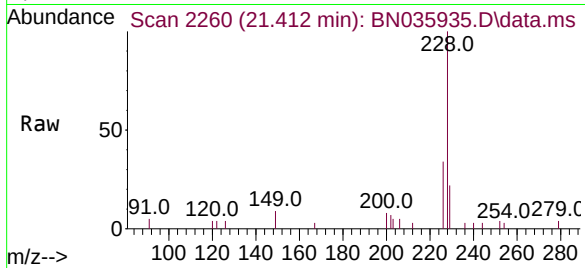
Tgt Ion:228 Resp: 2108

Ion Ratio Lower Upper

228 100

226 33.5 25.2 37.8

229 21.9 16.0 24.0



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.499 ng

RT: 21.313 min Scan# 2249

Delta R.T. -0.008 min

Lab File: BN035935.D

Acq: 15 Jan 2025 17:36

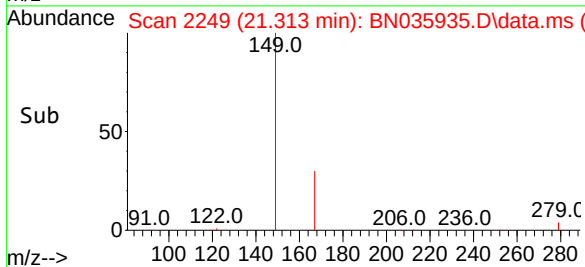
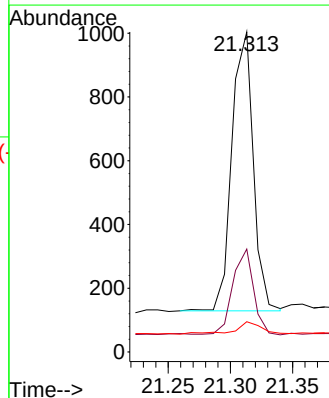
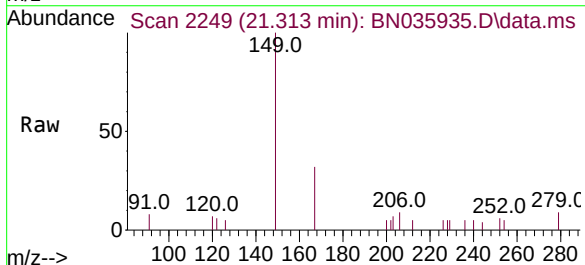
Tgt Ion:149 Resp: 1046

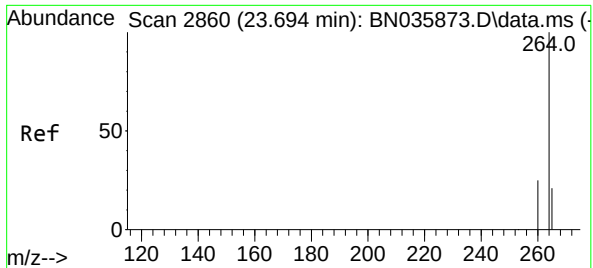
Ion Ratio Lower Upper

149 100

167 29.8 21.4 32.0

279 5.5 3.0 4.6#

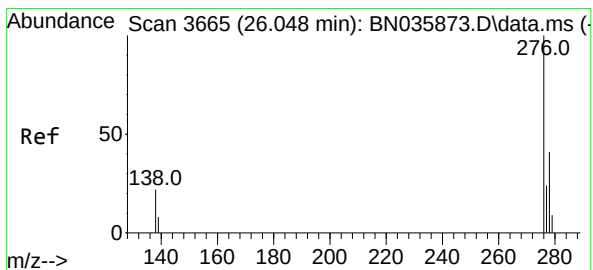
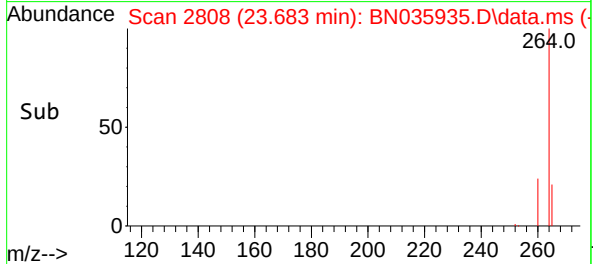
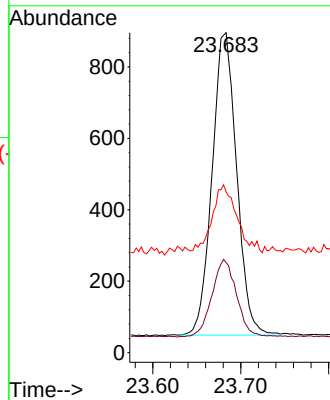
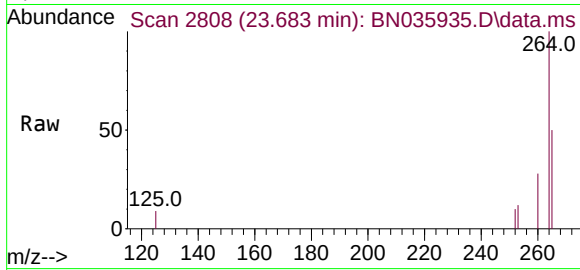




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.683 min Scan# 21
Delta R.T. -0.011 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

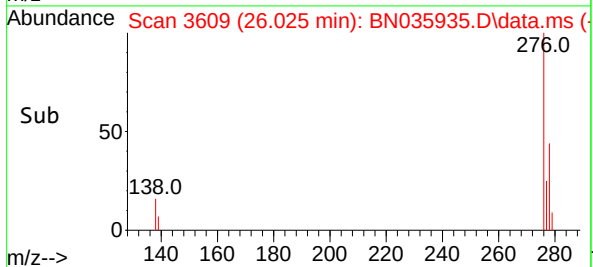
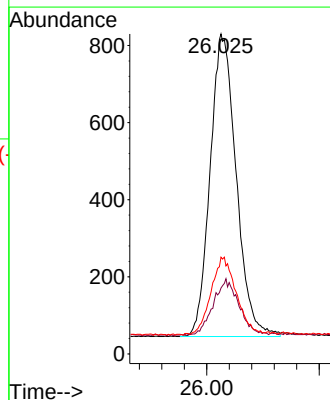
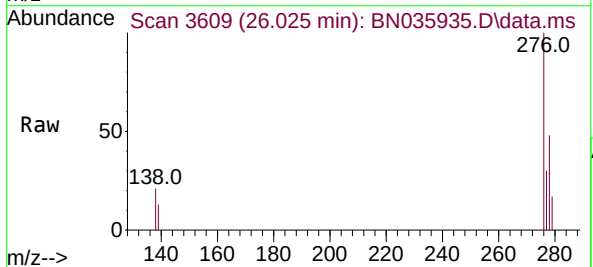
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

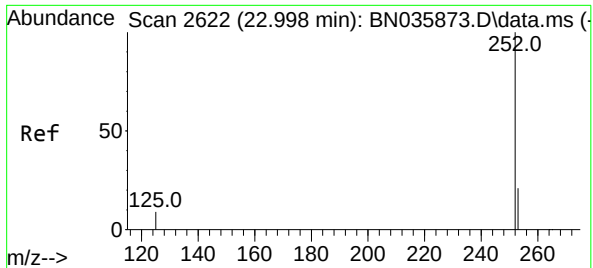
Tgt Ion:264	Resp:	1643
Ion	Ratio	Lower Upper
264	100	
260	28.1	21.7 32.5
265	50.2	33.9 50.9



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.390 ng
RT: 26.025 min Scan# 3609
Delta R.T. -0.022 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion:276	Resp:	2530
Ion	Ratio	Lower Upper
276	100	
138	18.4	18.9 28.3#
277	24.5	19.5 29.3

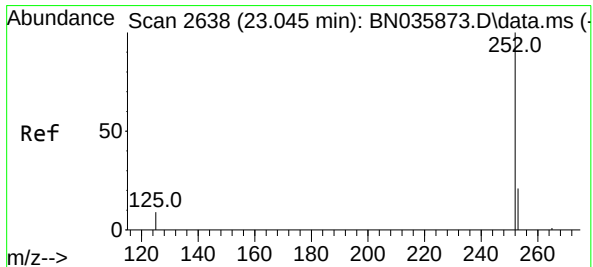
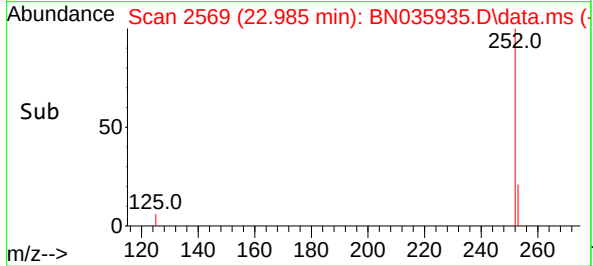
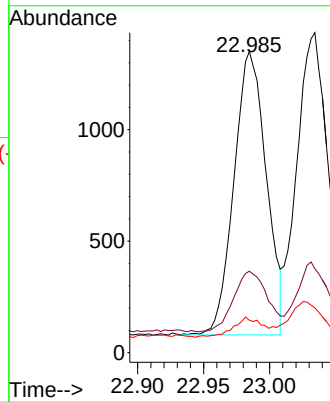
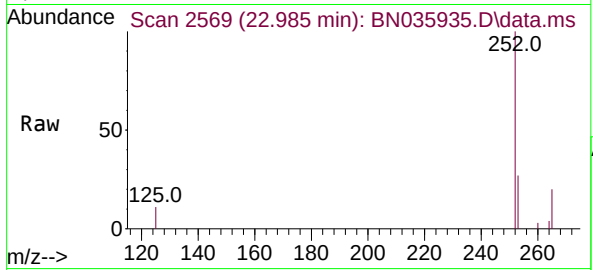




#37
Benzo(b)fluoranthene
Concen: 0.383 ng
RT: 22.985 min Scan# 2163
Delta R.T. -0.014 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

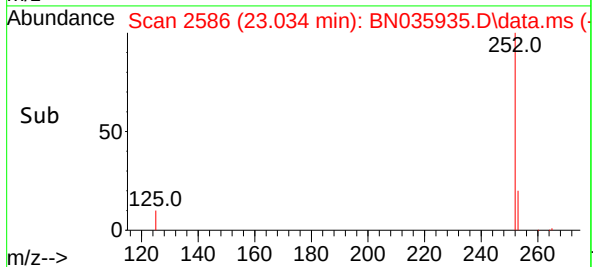
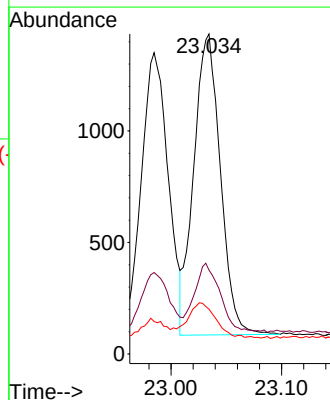
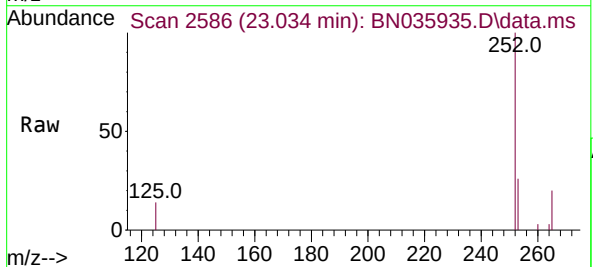
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

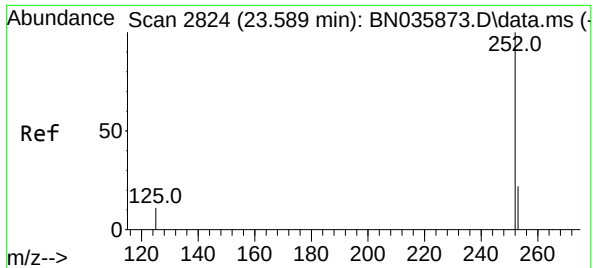
Tgt Ion:252 Resp: 2163
Ion Ratio Lower Upper
252 100
253 27.0 20.1 30.1
125 10.8 9.9 14.9



#38
Benzo(k)fluoranthene
Concen: 0.404 ng
RT: 23.034 min Scan# 2586
Delta R.T. -0.011 min
Lab File: BN035935.D
Acq: 15 Jan 2025 17:36

Tgt Ion:252 Resp: 2259
Ion Ratio Lower Upper
252 100
253 26.2 20.5 30.7
125 14.0 10.6 16.0





#39

Benzo(a)pyrene

Concen: 0.386 ng

RT: 23.578 min Scan# 21

Delta R.T. -0.011 min

Lab File: BN035935.D

Acq: 15 Jan 2025 17:36

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

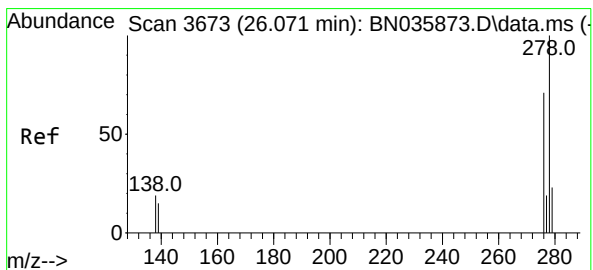
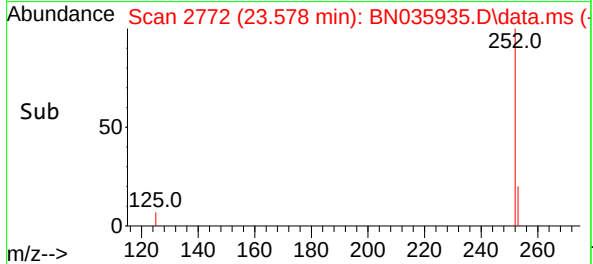
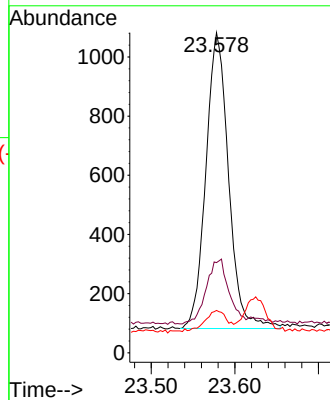
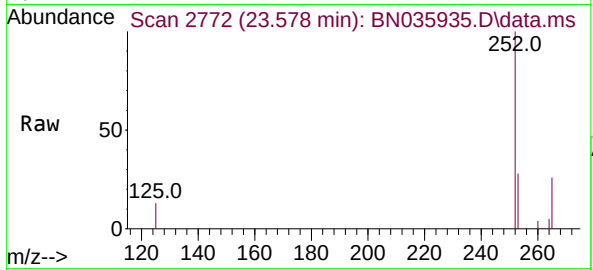
Tgt Ion:252 Resp: 1887

Ion Ratio Lower Upper

252 100

253 28.2 21.5 32.3

125 13.2 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.394 ng

RT: 26.049 min Scan# 3617

Delta R.T. -0.022 min

Lab File: BN035935.D

Acq: 15 Jan 2025 17:36

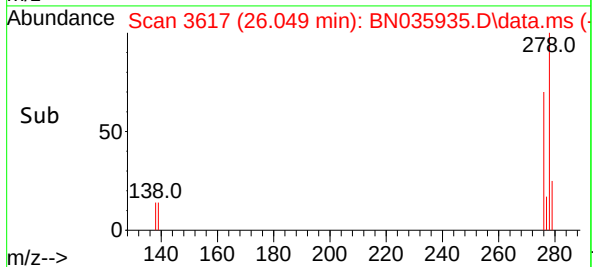
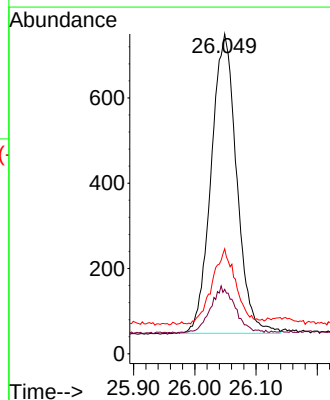
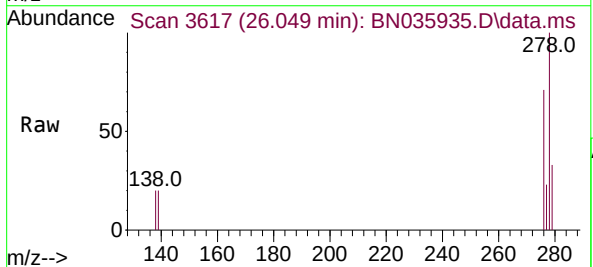
Tgt Ion:278 Resp: 2030

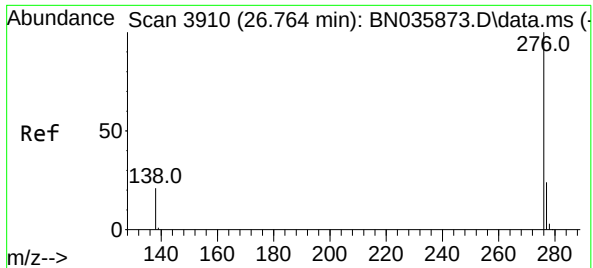
Ion Ratio Lower Upper

278 100

139 20.1 15.9 23.9

279 32.8 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.376 ng

RT: 26.744 min Scan# 3855

Delta R.T. -0.019 min

Lab File: BN035935.D

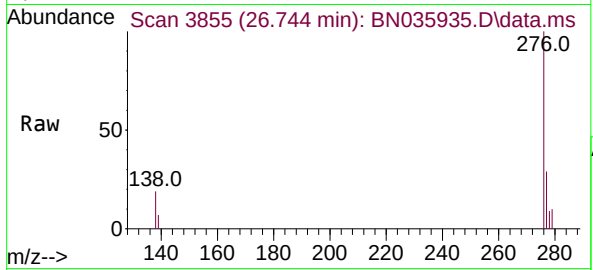
Acq: 15 Jan 2025 17:36

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



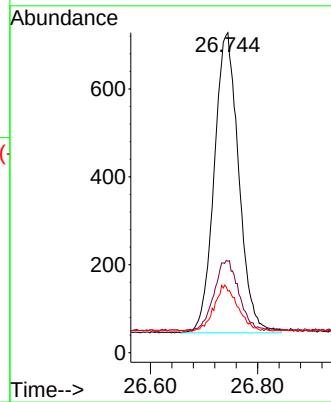
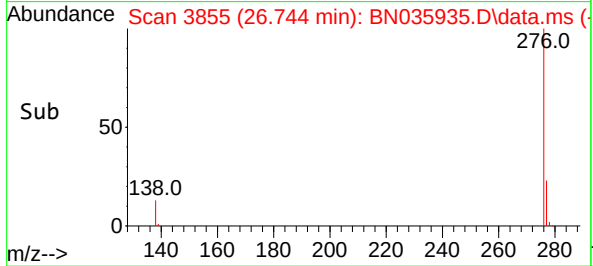
Tgt Ion:276 Resp: 2167

Ion Ratio Lower Upper

276 100

277 28.6 22.8 34.2

138 19.2 20.1 30.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
 Data File : BN035935.D
 Acq On : 15 Jan 2025 17:36
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jan 15 18:18:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 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	69	0.00
2	1,4-Dioxane	0.397	0.388	2.3	72	0.00
3	n-Nitrosodimethylamine	0.693	0.853	-23.1	88	-0.01
4 S	2-Fluorophenol	0.981	0.914	6.8	67	-0.01
5 S	Phenol-d6	1.219	1.108	9.1	65	0.00
6	bis(2-Chloroethyl)ether	0.929	0.832	10.4	62	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	63	0.00
8 S	Nitrobenzene-d5	0.317	0.340	-7.3	73	-0.01
9	Naphthalene	1.123	1.110	1.2	65	-0.01
10	Hexachlorobutadiene	0.365	0.393	-7.7	71	0.00
11 SURR	2-Methylnaphthalene-d10	0.536	0.523	2.4	63	0.00
12	2-Methylnaphthalene	0.695	0.693	0.3	64	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	62	0.00
14 S	2,4,6-Tribromophenol	0.192	0.267	-39.1#	88	-0.01
15 S	2-Fluorobiphenyl	1.755	1.796	-2.3	65	0.00
16	Acenaphthylene	1.884	1.865	1.0	64	0.00
17	Acenaphthene	1.235	1.304	-5.6	67	0.00
18	Fluorene	1.359	1.352	0.5	64	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	63	-0.01
20	4,6-Dinitro-2-methylphenol	0.069	0.101	-46.4#	95	0.00
21	4-Bromophenyl-phenylether	0.274	0.285	-4.0	67	-0.01
22	Hexachlorobenzene	0.374	0.378	-1.1	67	0.00
23	Atrazine	0.184	0.211	-14.7	75	0.00
24	Pentachlorophenol	0.132	0.180	-36.4#	95	0.00
25	Phenanthrene	1.167	1.132	3.0	62	-0.01
26	Anthracene	1.062	1.029	3.1	64	0.00
27 SURR	Fluoranthene-d10	0.993	0.980	1.3	63	0.00
28	Fluoranthene	1.361	1.334	2.0	63	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	61	0.00
30	Pyrene	1.624	1.606	1.1	63	0.00
31 S	Terphenyl-d14	0.797	0.817	-2.5	63	0.00
32	Benzo(a)anthracene	1.410	1.420	-0.7	65	-0.02
33	Chrysene	1.475	1.442	2.2	61	0.00
34	Bis(2-ethylhexyl)phthalate	0.574	0.715	-24.6	75	0.00
35 I	Perylene-d12	1.000	1.000	0.0	63	-0.01
36	Indeno(1,2,3-cd)pyrene	1.577	1.540	2.3	68	-0.02
37	Benzo(b)fluoranthene	1.374	1.316	4.2	64	-0.01
38	Benzo(k)fluoranthene	1.360	1.375	-1.1	69	-0.01
39 C	Benzo(a)pyrene	1.190	1.149	3.4	66	-0.01
40	Dibenzo(a,h)anthracene	1.255	1.236	1.5	70	-0.02
41	Benzo(g,h,i)perylene	1.403	1.319	6.0	66	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035935.D
Acq On : 15 Jan 2025 17:36
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jan 15 18:18:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 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	69	0.00
2	1,4-Dioxane	0.400	0.391	2.3	72	0.00
3	n-Nitrosodimethylamine	0.400	0.492	-23.0	88	-0.01
4 S	2-Fluorophenol	0.400	0.373	6.8	67	-0.01
5 S	Phenol-d6	0.400	0.364	9.0	65	0.00
6	bis(2-Chloroethyl)ether	0.400	0.359	10.3	62	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	63	0.00
8 S	Nitrobenzene-d5	0.400	0.430	-7.5	73	-0.01
9	Naphthalene	0.400	0.395	1.3	65	-0.01
10	Hexachlorobutadiene	0.400	0.431	-7.7	71	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.390	2.5	63	0.00
12	2-Methylnaphthalene	0.400	0.399	0.3	64	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	62	0.00
14 S	2,4,6-Tribromophenol	0.400	0.557	-39.3#	88	-0.01
15 S	2-Fluorobiphenyl	0.400	0.409	-2.2	65	0.00
16	Acenaphthylene	0.400	0.396	1.0	64	0.00
17	Acenaphthene	0.400	0.422	-5.5	67	0.00
18	Fluorene	0.400	0.398	0.5	64	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	63	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.584	-46.0#	95	0.00
21	4-Bromophenyl-phenylether	0.400	0.416	-4.0	67	-0.01
22	Hexachlorobenzene	0.400	0.405	-1.3	67	0.00
23	Atrazine	0.400	0.458	-14.5	75	0.00
24	Pentachlorophenol	0.400	0.543	-35.8#	95	0.00
25	Phenanthrene	0.400	0.388	3.0	62	-0.01
26	Anthracene	0.400	0.388	3.0	64	0.00
27 SURR	Fluoranthene-d10	0.400	0.395	1.3	63	0.00
28	Fluoranthene	0.400	0.392	2.0	63	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	61	0.00
30	Pyrene	0.400	0.396	1.0	63	0.00
31 S	Terphenyl-d14	0.400	0.410	-2.5	63	0.00
32	Benzo(a)anthracene	0.400	0.403	-0.8	65	-0.02
33	Chrysene	0.400	0.391	2.3	61	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.499	-24.7	75	0.00
35 I	Perylene-d12	0.400	0.400	0.0	63	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.390	2.5	68	-0.02
37	Benzo(b)fluoranthene	0.400	0.383	4.3	64	-0.01
38	Benzo(k)fluoranthene	0.400	0.404	-1.0	69	-0.01
39 C	Benzo(a)pyrene	0.400	0.386	3.5	66	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.394	1.5	70	-0.02
41	Benzo(g,h,i)perylene	0.400	0.376	6.0	66	-0.02

(#) = Out of Range

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



QC SAMPLE DATA

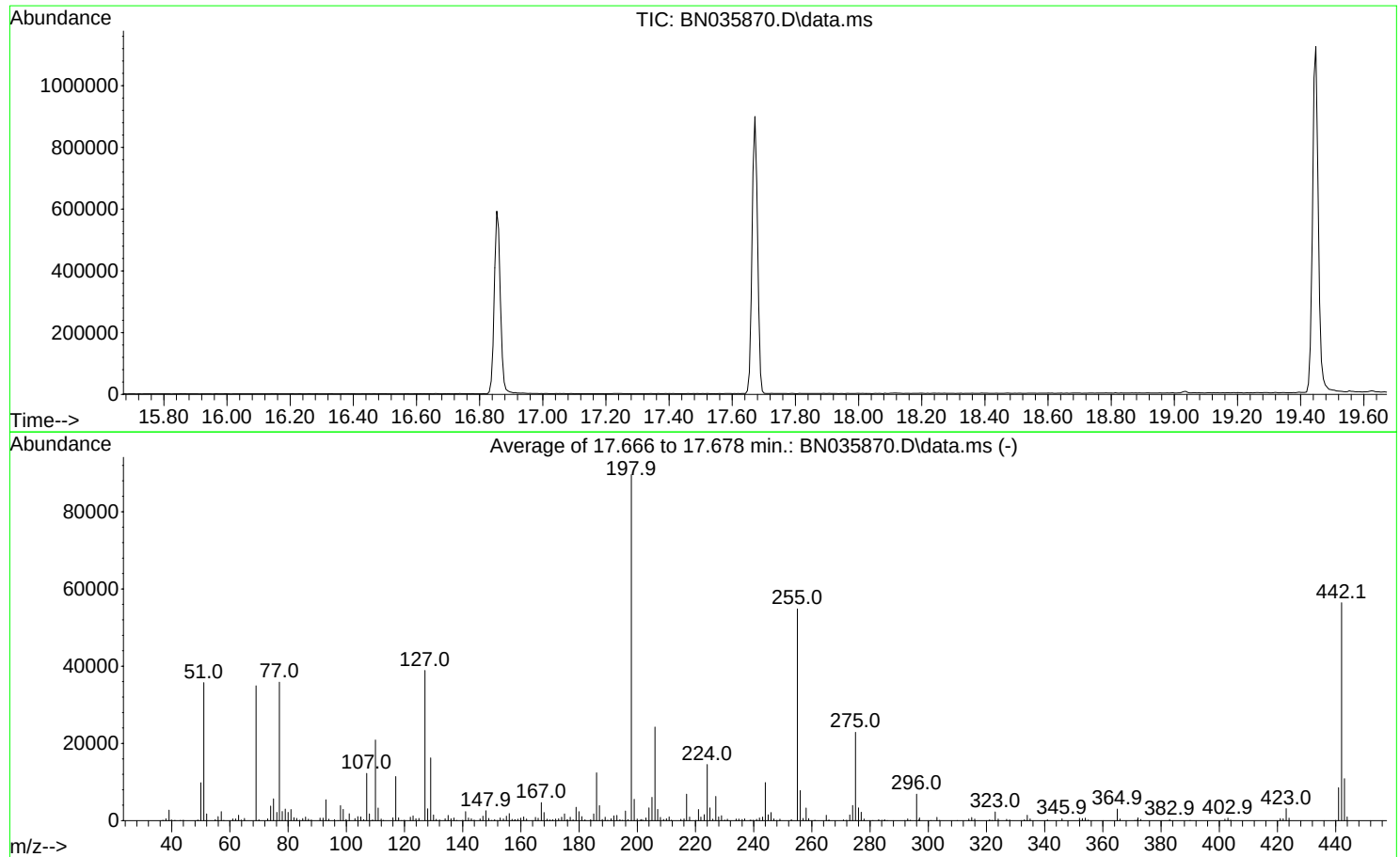
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035870.D
Acq On : 02 Jan 2025 10:49
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-BN010225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jan 02 15:39:17 2025



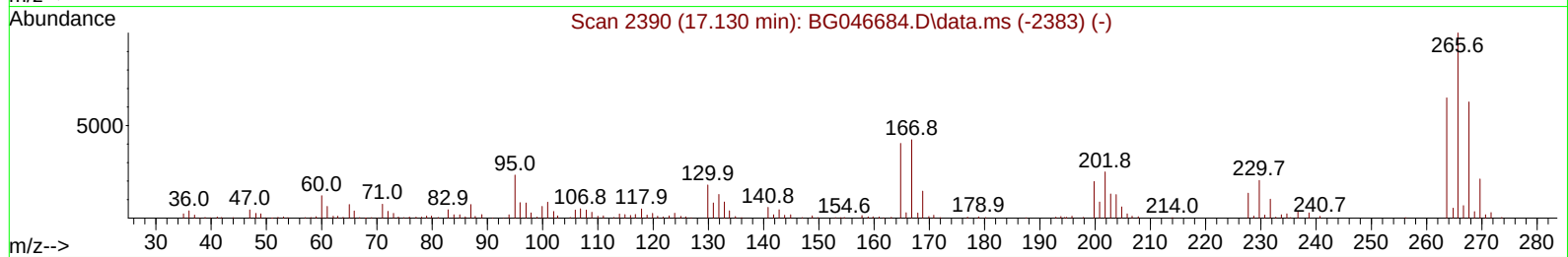
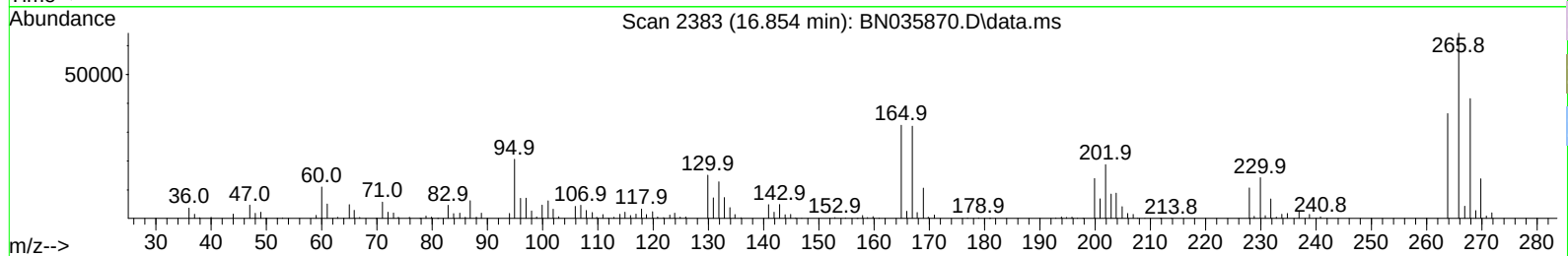
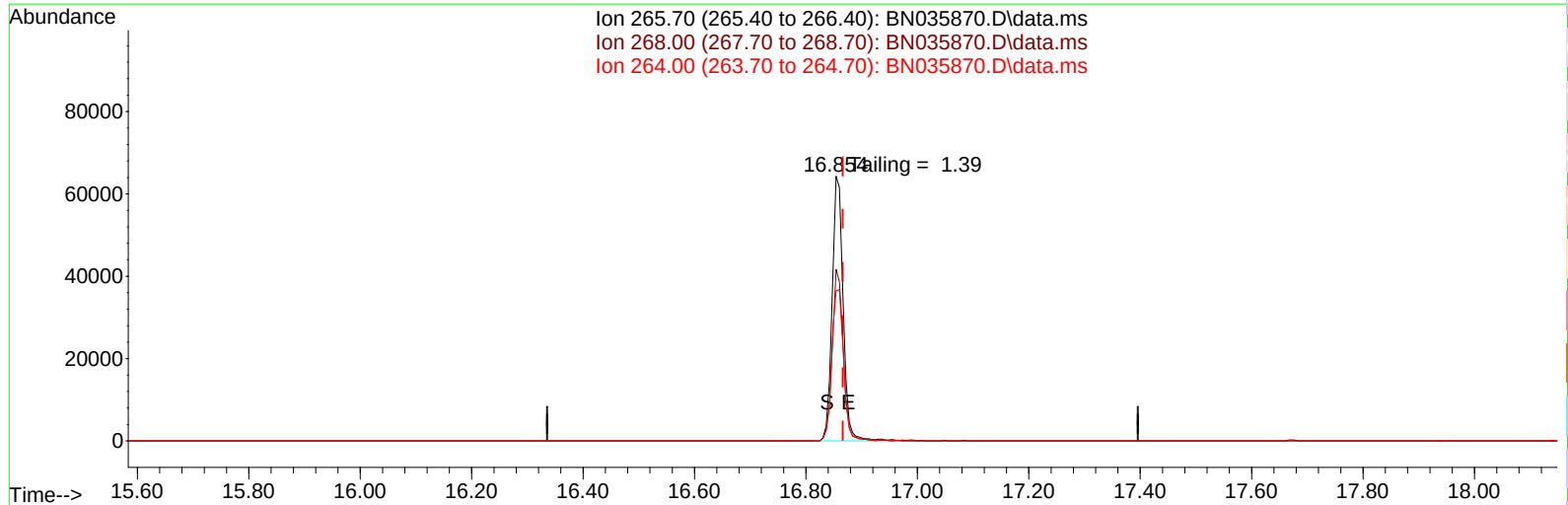
AutoFind: Scans 2521, 2522, 2523; Background Corrected with Scan 2515

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.9	35733	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.0	34920	PASS
70	69	0.00	2	0.7	232	PASS
127	198	10	80	43.4	38907	PASS
197	198	0.00	2	0.3	256	PASS
198	198	100	100	100.0	89616	PASS
199	198	5	9	6.2	5523	PASS
275	198	10	60	25.6	22899	PASS
365	198	1	100	3.3	2996	PASS
441	198	0.01	100	9.5	8544	PASS
442	442	50	100	100.0	56448	PASS
443	442	15	24	19.3	10868	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035870.D
Acq On : 02 Jan 2025 10:49
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jan 02 12:15:33 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: BN035870.D\data.ms

(70) Pentachlorophenol (C)

16.854min (-0.012) 32111.49 ng

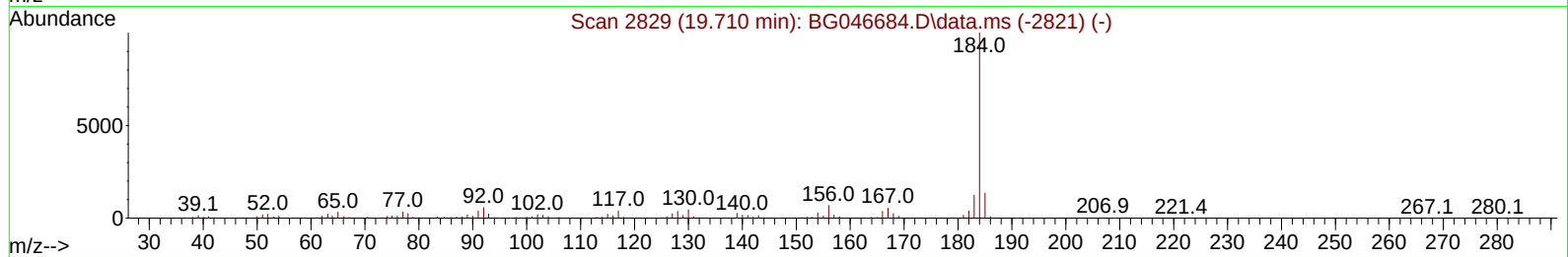
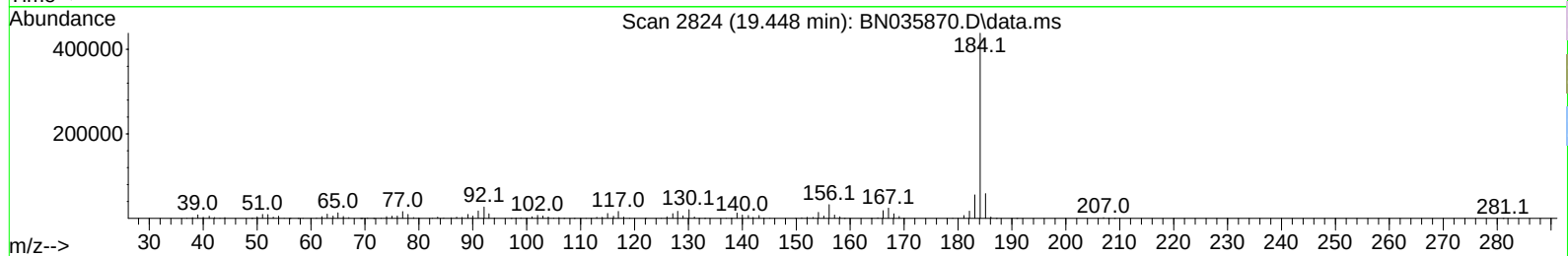
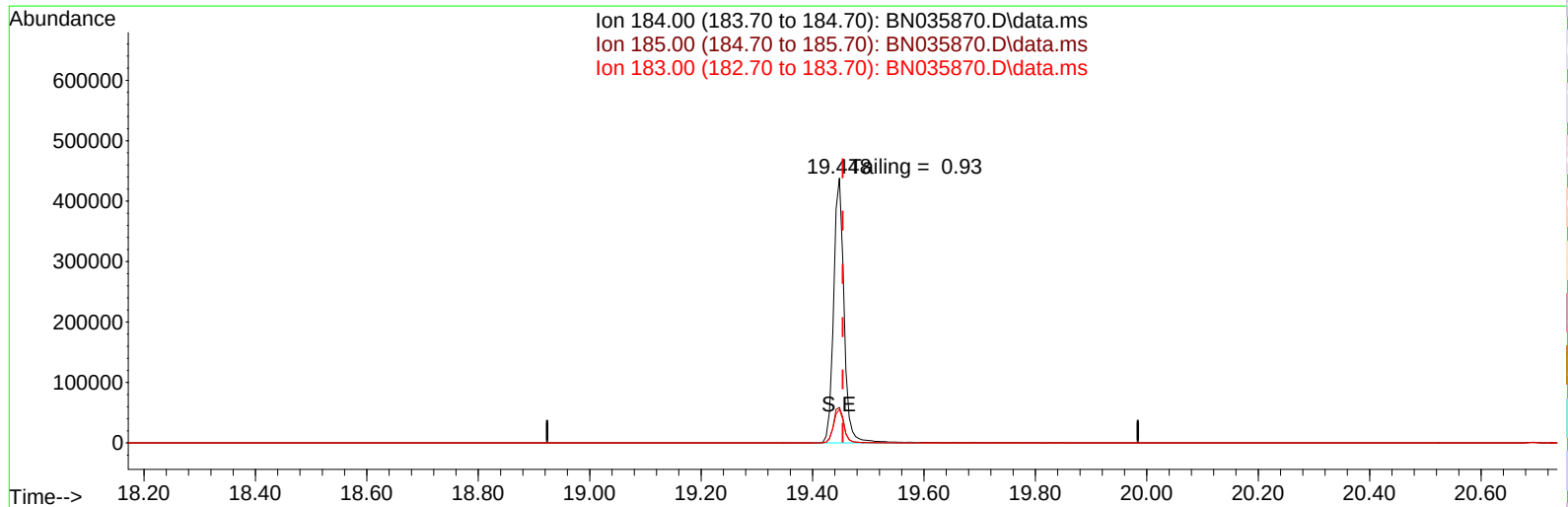
response 87193

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.79
264.00	61.60	56.74
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN010225\
Data File : BN035870.D
Acq On : 02 Jan 2025 10:49
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jan 02 12:15:33 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: BN035870.D\data.ms

(77) Benzidine

19.448min (-0.006) 0.00 ng

response 567773

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.41
183.00	13.20	12.73
0.00	0.00	0.00

DDT Breakdown

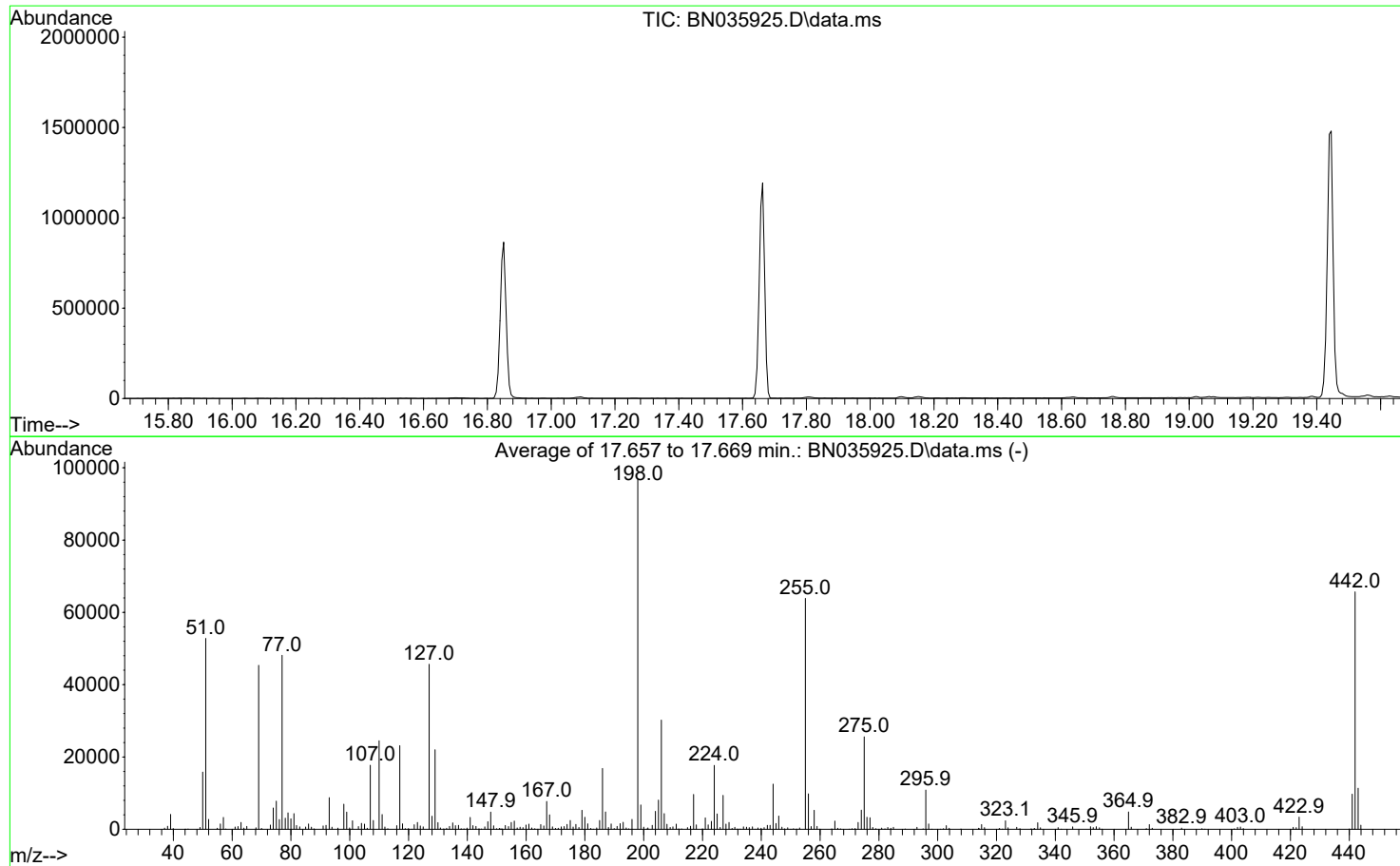
Date	Instrument Name	DFTPP Data File
1/2/2025	BNA_N	<u>BN035870.D</u>
Compound Name	Response	Retention Time
DDT	243994	20.695
DDD	3023	20.307
DDE	79	19.748
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
3102	247096	1.26

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035925.D
Acq On : 15 Jan 2025 09:47
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-BN010225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jan 02 15:39:17 2025



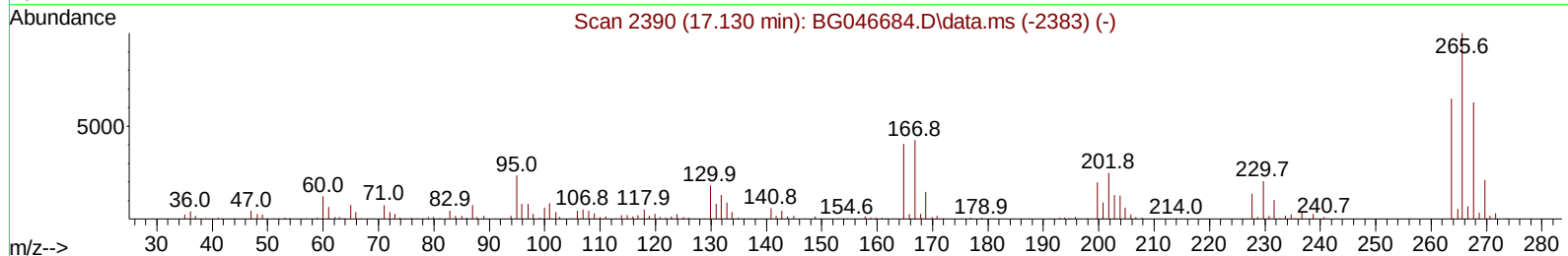
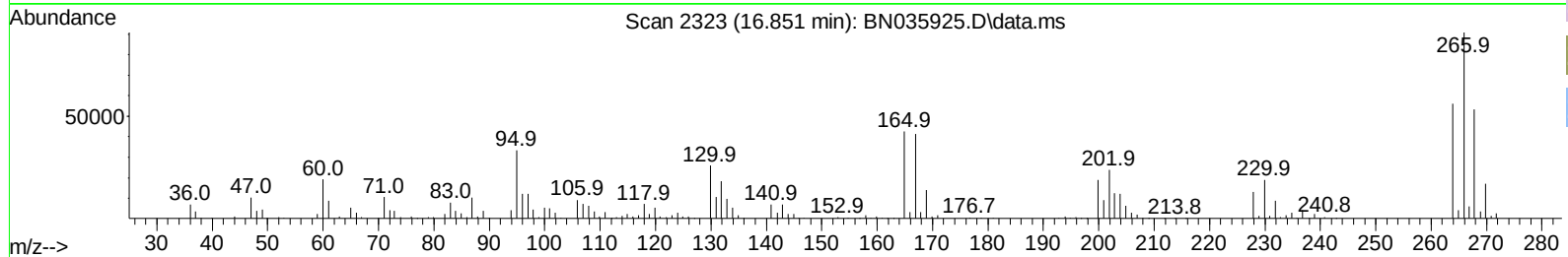
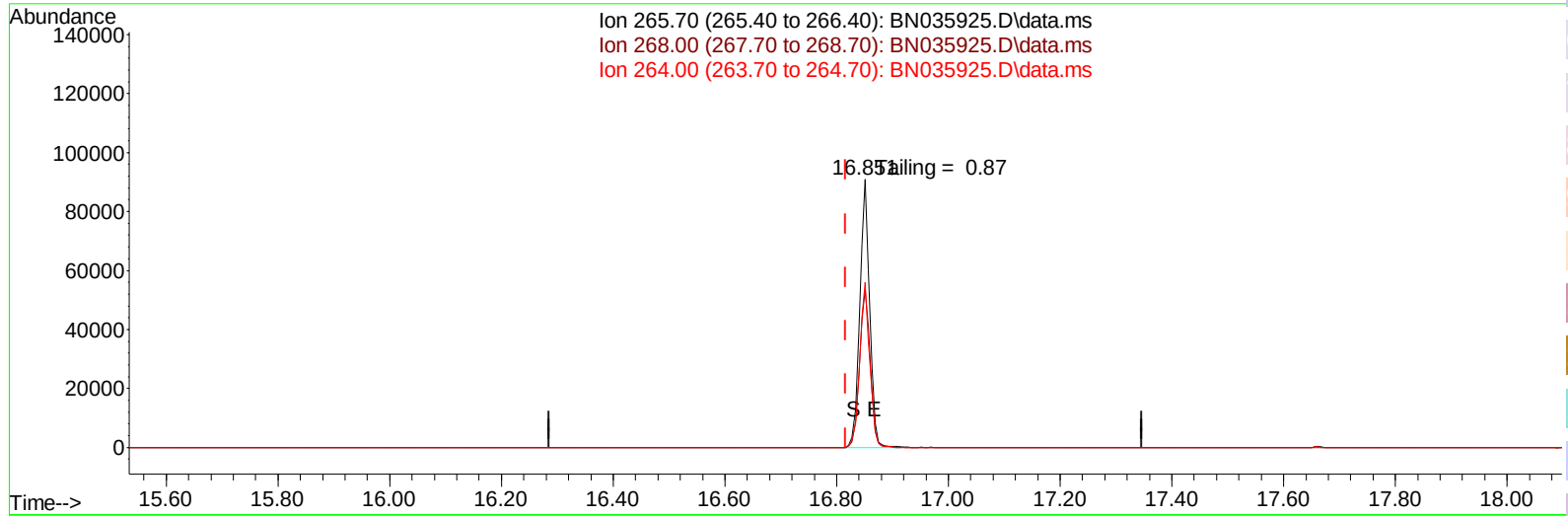
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2453

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	54.6	52803	PASS
68	69	0.00	2	1.0	434	PASS
69	198	0.00	100	46.9	45360	PASS
70	69	0.00	2	0.6	254	PASS
127	198	10	80	47.2	45648	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	96728	PASS
199	198	5	9	6.9	6712	PASS
275	198	10	60	26.4	25565	PASS
365	198	1	100	4.9	4783	PASS
441	198	0.01	100	10.0	9700	PASS
442	442	50	100	100.0	65680	PASS
443	442	15	24	17.3	11379	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035925.D
Acq On : 15 Jan 2025 09:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jan 16 01:15:22 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: BN035925.D\data.ms

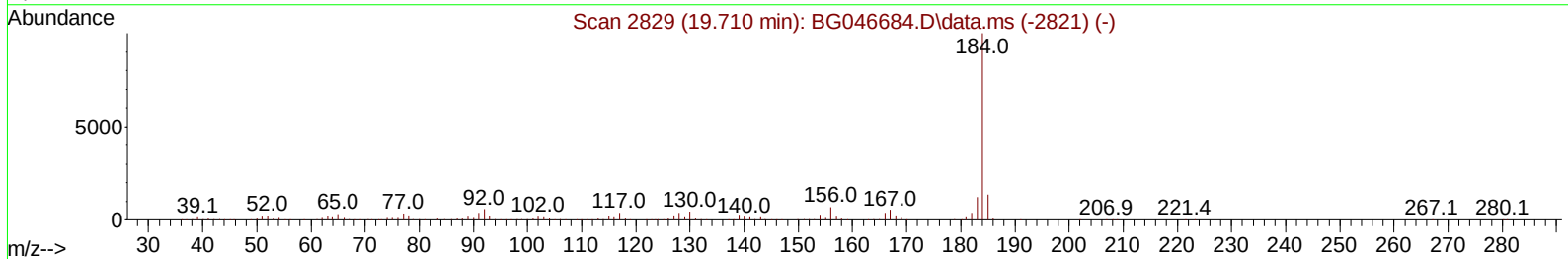
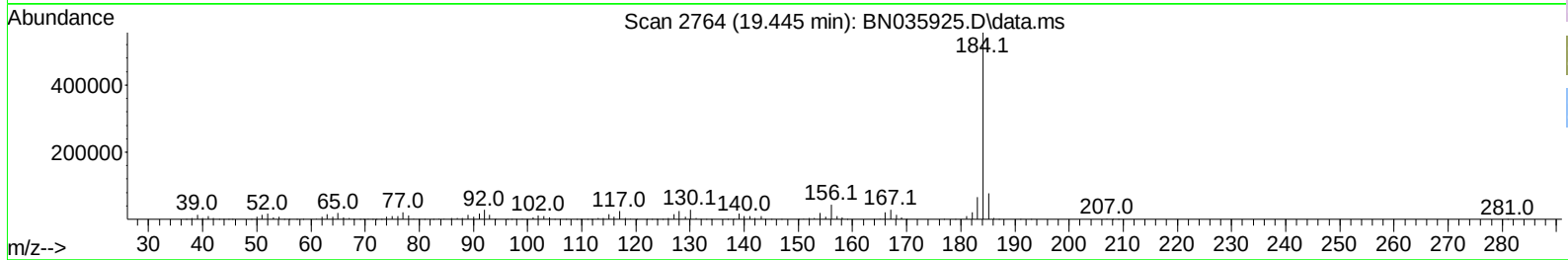
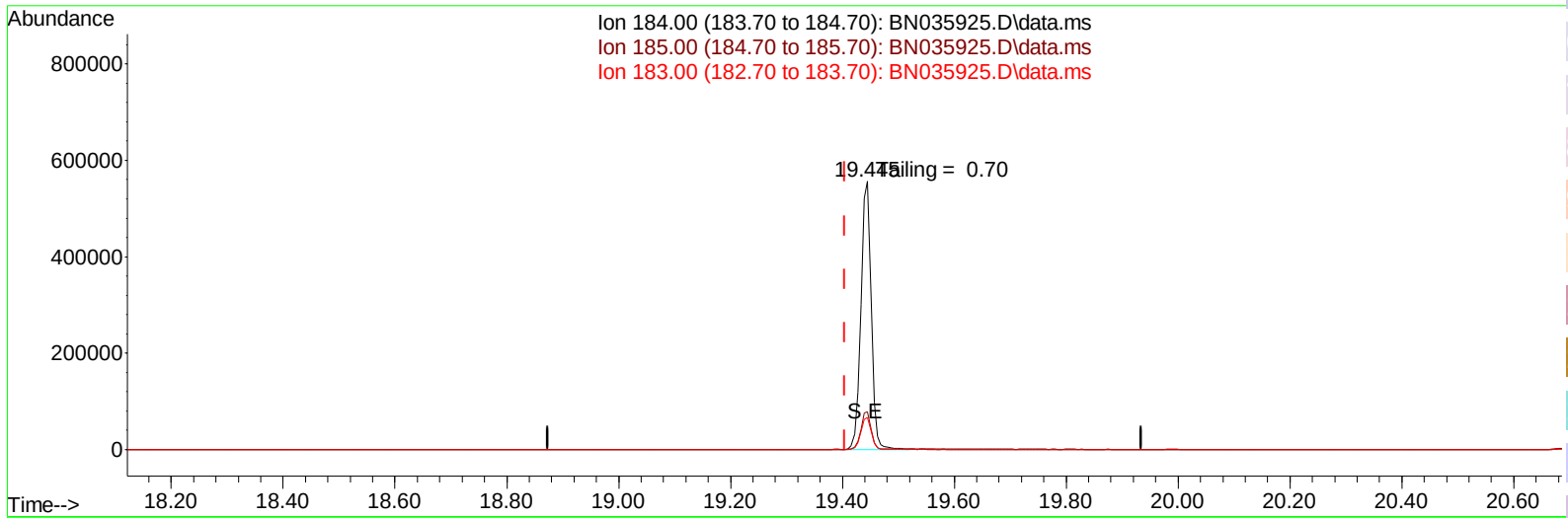
(70) Pentachlorophenol (C)**16.851min (+ 0.035) 20041.58 ng****response 111827**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	58.74
264.00	61.60	61.70
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035925.D
Acq On : 15 Jan 2025 09:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jan 16 01:15:22 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: BN035925.D\data.ms

(77) Benzidine**19.445min (+ 0.041) 0.00 ng****response 709609**

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.10
183.00	13.20	11.87
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
1/15/2025	BNA_N	<u>BN035925.D</u>
Compound Name	Response	Retention Time
DDT	350796	20.686
DDD	4625	20.298
DDE	0	19.748
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
4625	355421	1.30

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	RW7B - 112G08005-WE13	Date Received:	
Client Sample ID:	PB166053BL	SDG No.:	Q1081
Lab Sample ID:	PB166053BL	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
BN035927.D	1	01/14/25 11:00	01/15/25 11:03	PB166053

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	0.50		30 - 150		125%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.49		30 - 150		122%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.55	*	55 - 111		138%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.51	*	53 - 106		127%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		130%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	922		7.832			
1146-65-2	Naphthalene-d8	1750		10.622			
15067-26-2	Acenaphthene-d10	846		14.463			
1517-22-2	Phenanthrene-d10	1700		17.199			
1719-03-5	Chrysene-d12	1450		21.376			
1520-96-3	Perylene-d12	1670		23.678			

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\BN011525\
Data File : BN035927.D
Acq On : 15 Jan 2025 11:03
Operator : RC/JU
Sample : PB166053BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB166053BL

Quant Time: Jan 15 11:51:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	922	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1746	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	846	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1699	0.400	ng	-0.01
29) Chrysene-d12	21.376	240	1454	0.400	ng	0.00
35) Perylene-d12	23.678	264	1672	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.405	112	910	0.402	ng	0.00
5) Phenol-d6	6.979	99	1060	0.377	ng	0.00
8) Nitrobenzene-d5	8.967	82	760	0.550	ng	-0.01
11) 2-Methylnaphthalene-d10	12.208	152	1171	0.501	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	185	0.455	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	1884	0.508	ng	0.00
27) Fluoranthene-d10	19.225	212	2056	0.488	ng	-0.01
31) Terphenyl-d14	19.829	244	1504	0.519	ng	0.00

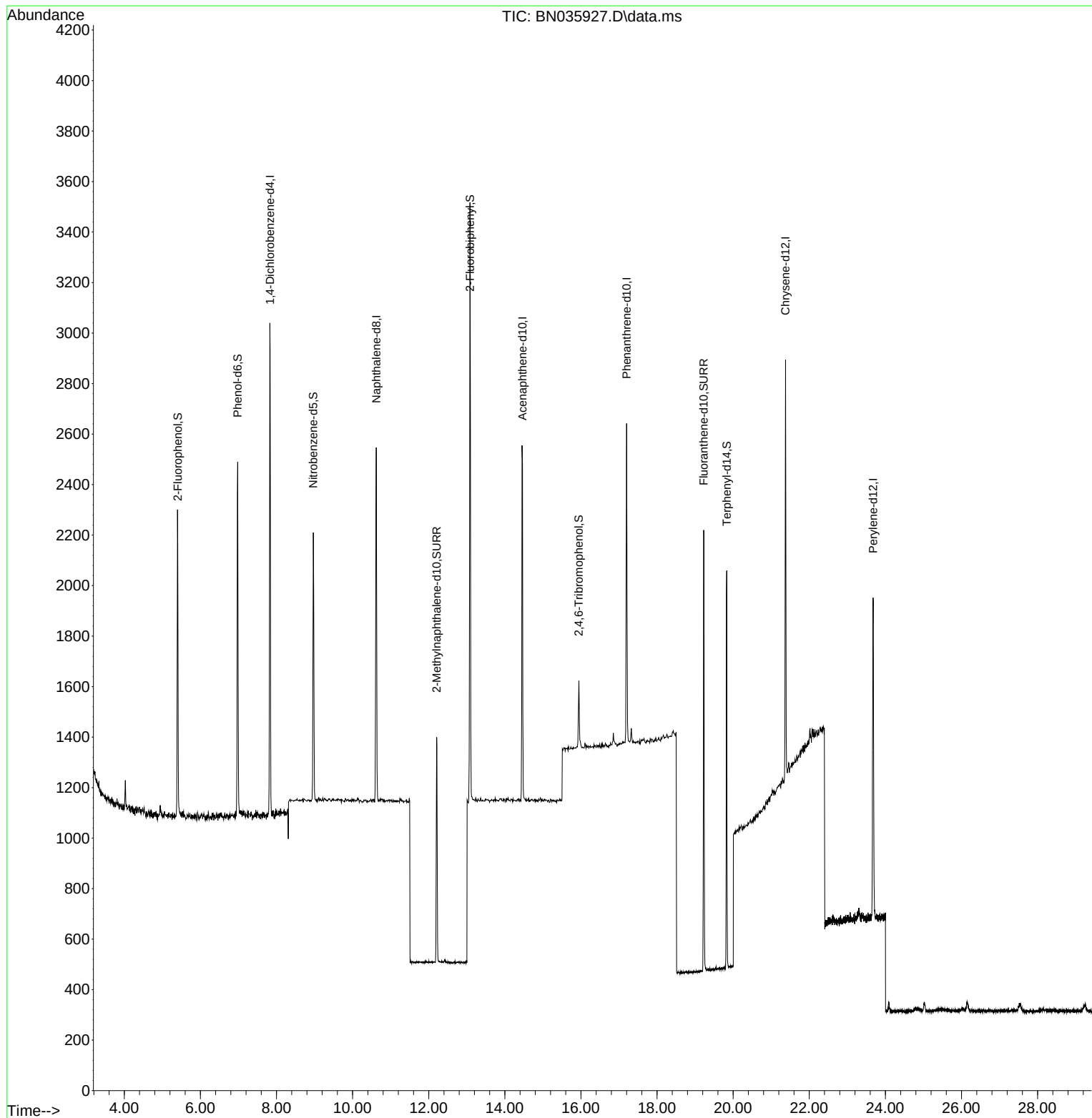
Target Compounds	Qvalue

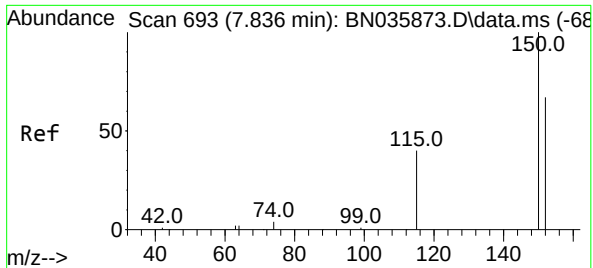
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035927.D
Acq On : 15 Jan 2025 11:03
Operator : RC/JU
Sample : PB166053BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB166053BL

Quant Time: Jan 15 11:51:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

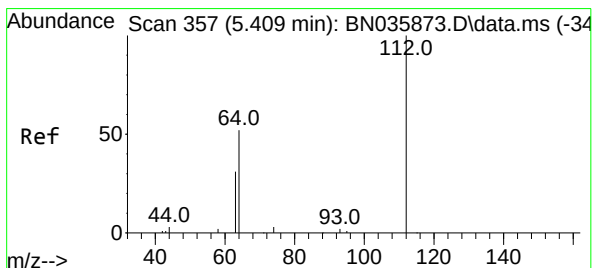
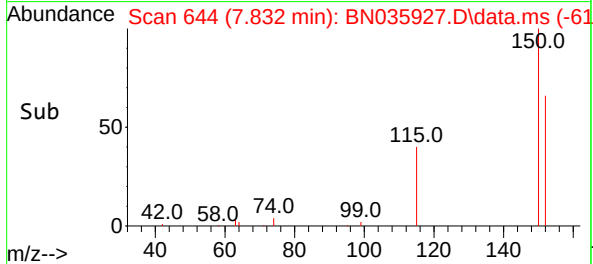
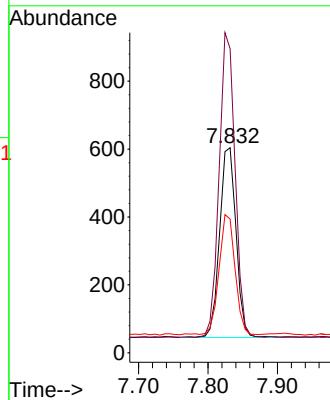
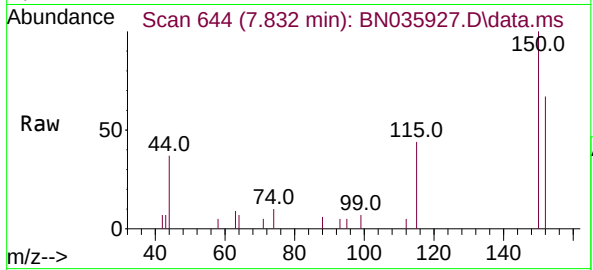




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035927.D
Acq: 15 Jan 2025 11:03

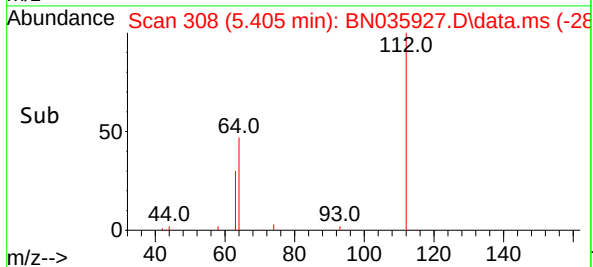
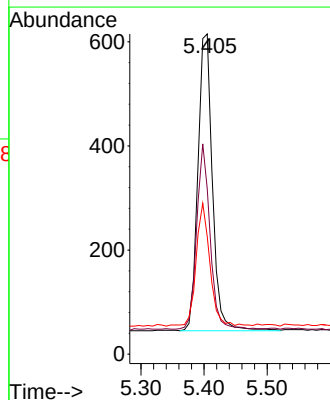
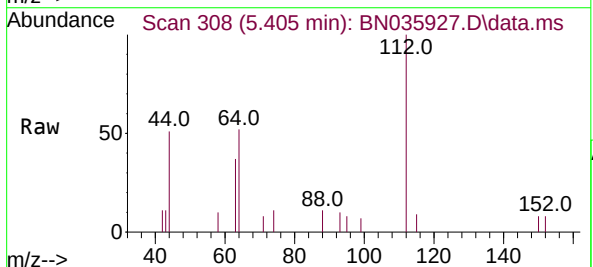
Instrument :
BNA_N
ClientSampleId :
PB166053BL

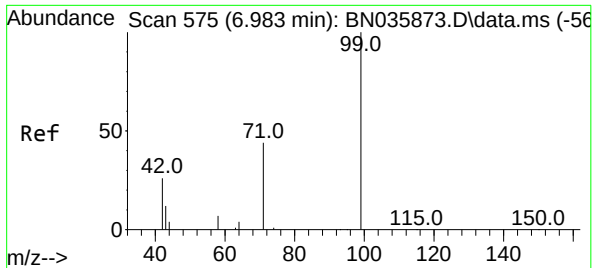
Tgt Ion:152 Resp: 922
Ion Ratio Lower Upper
152 100
150 148.3 117.8 176.6
115 65.2 51.0 76.4



#4
2-Fluorophenol
Concen: 0.402 ng
RT: 5.405 min Scan# 308
Delta R.T. -0.004 min
Lab File: BN035927.D
Acq: 15 Jan 2025 11:03

Tgt Ion:112 Resp: 910
Ion Ratio Lower Upper
112 100
64 57.5 48.2 72.2
63 39.3 30.0 45.0

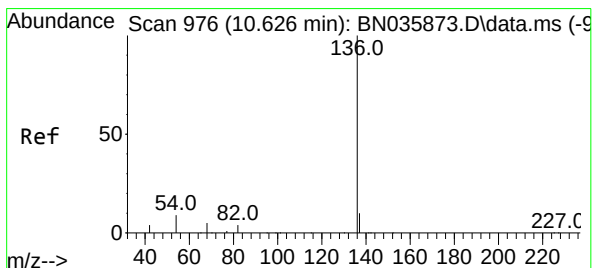
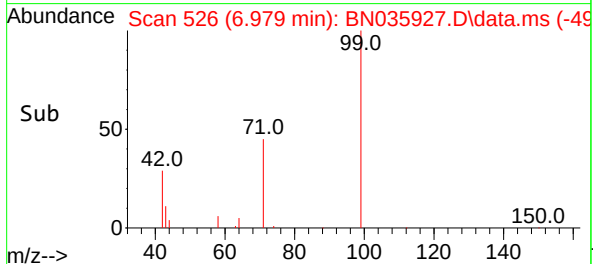
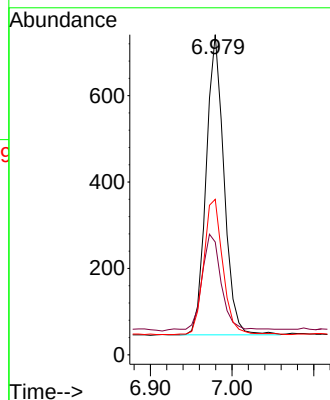
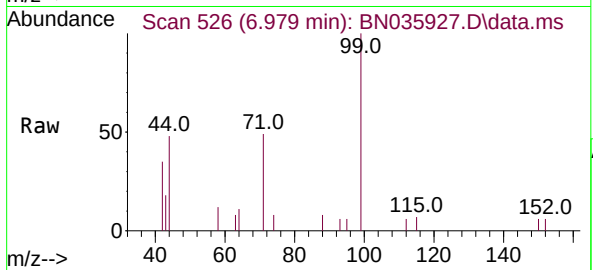




#5
Phenol-d6
Concen: 0.377 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035927.D
Acq: 15 Jan 2025 11:03

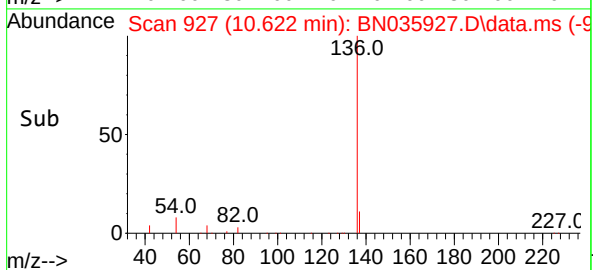
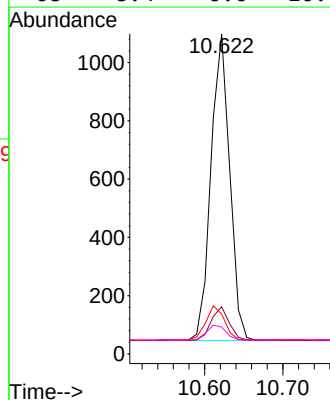
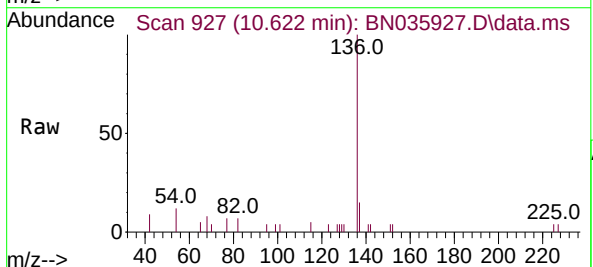
Instrument :
BNA_N
ClientSampleId :
PB166053BL

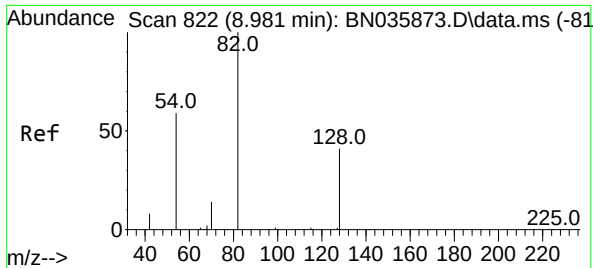
Tgt Ion: 99 Resp: 1060
Ion Ratio Lower Upper
99 100
42 36.2 23.5 35.3#
71 48.0 35.5 53.3



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 927
Delta R.T. -0.004 min
Lab File: BN035927.D
Acq: 15 Jan 2025 11:03

Tgt Ion: 136 Resp: 1746
Ion Ratio Lower Upper
136 100
137 14.8 10.6 15.8
54 12.5 9.8 14.6
68 8.4 6.6 10.0

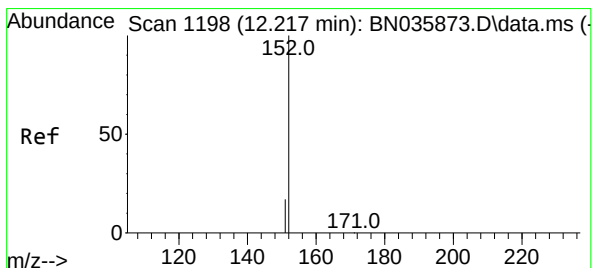
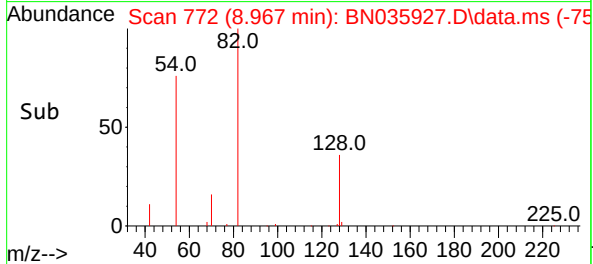
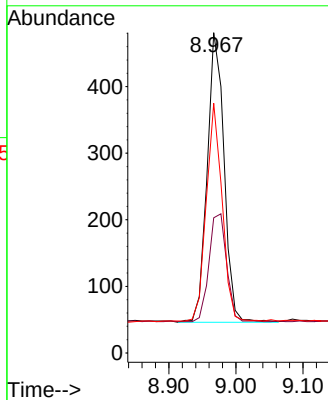
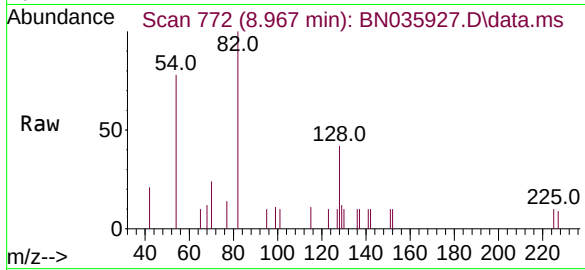




#8
Nitrobenzene-d5
Concen: 0.550 ng
RT: 8.967 min Scan# 71
Delta R.T. -0.015 min
Lab File: BN035927.D
Acq: 15 Jan 2025 11:03

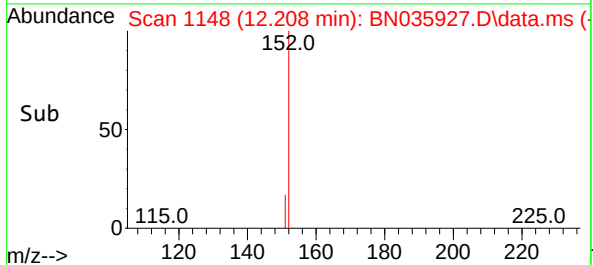
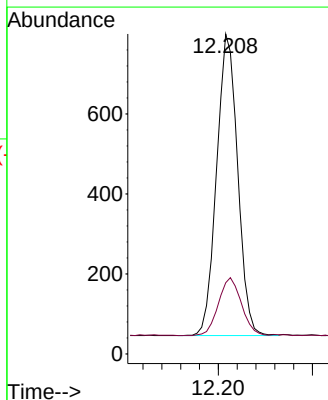
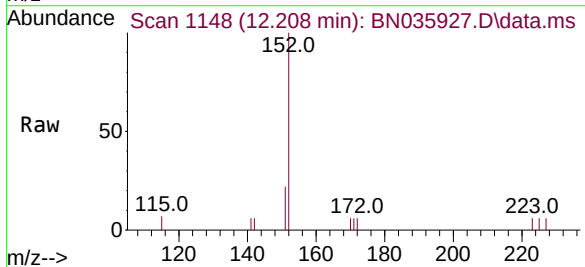
Instrument :
BNA_N
ClientSampleId :
PB166053BL

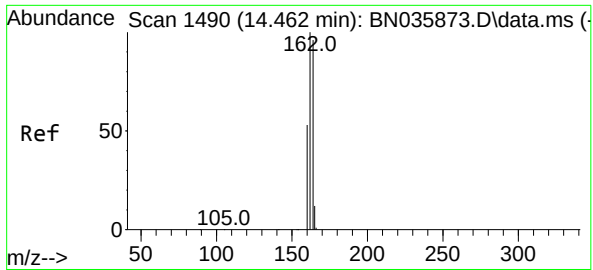
Tgt Ion: 82 Resp: 760
Ion Ratio Lower Upper
82 100
128 42.2 36.9 55.3
54 78.0 50.4 75.6#



#11
2-Methylnaphthalene-d10
Concen: 0.501 ng
RT: 12.208 min Scan# 1148
Delta R.T. -0.009 min
Lab File: BN035927.D
Acq: 15 Jan 2025 11:03

Tgt Ion: 152 Resp: 1171
Ion Ratio Lower Upper
152 100
151 20.9 17.0 25.6

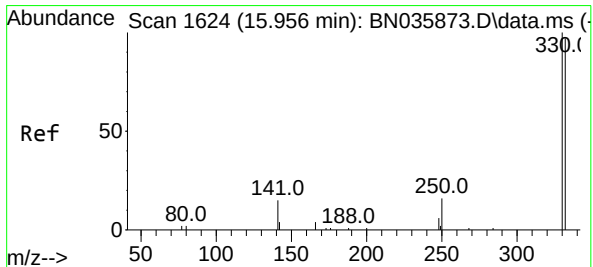
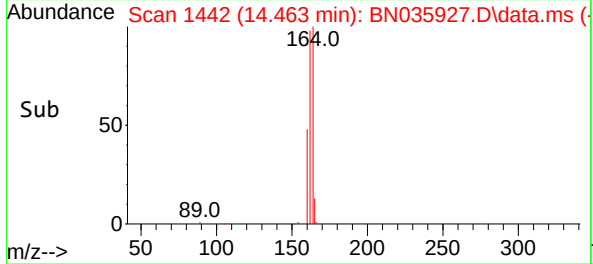
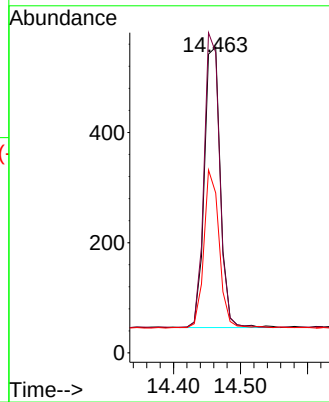
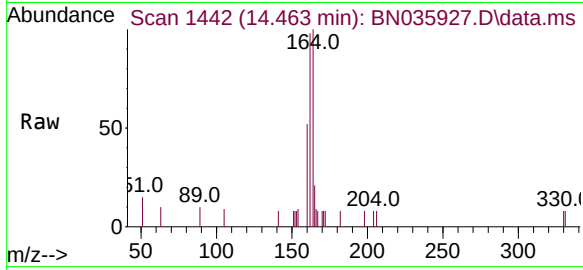




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN035927.D
Acq: 15 Jan 2025 11:03

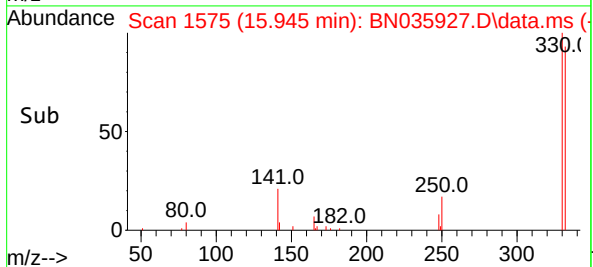
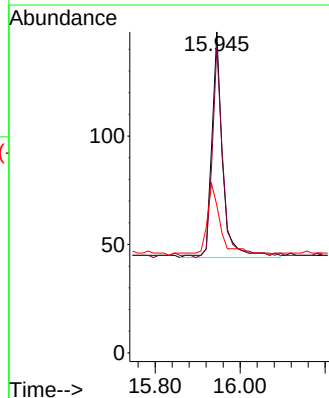
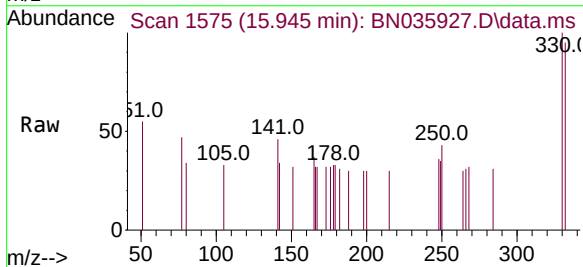
Instrument :
BNA_N
ClientSampleId :
PB166053BL

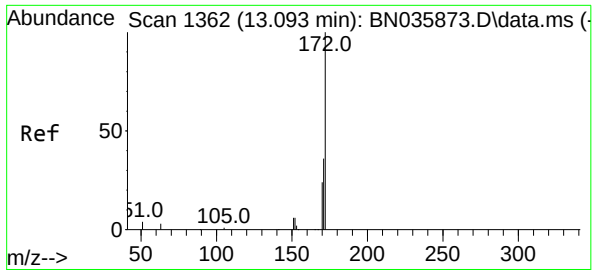
Tgt Ion:164 Resp: 846
Ion Ratio Lower Upper
164 100
162 98.2 83.1 124.7
160 52.3 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 0.455 ng
RT: 15.945 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035927.D
Acq: 15 Jan 2025 11:03

Tgt Ion:330 Resp: 185
Ion Ratio Lower Upper
330 100
332 94.1 77.2 115.8
141 39.5 31.6 47.4

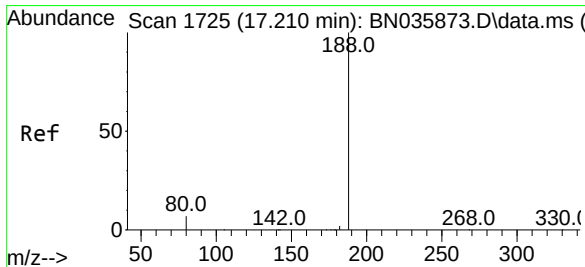
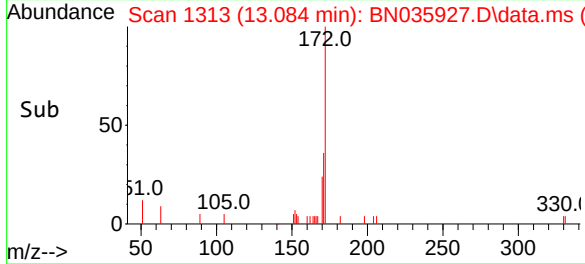
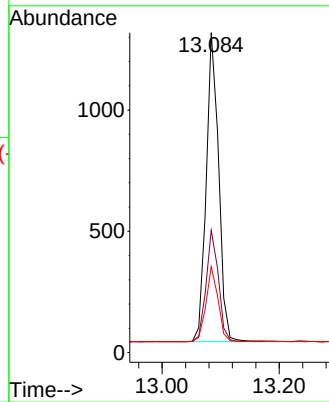
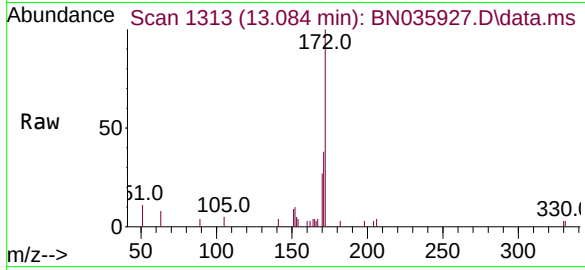




#15
2-Fluorobiphenyl
Concen: 0.508 ng
RT: 13.084 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN035927.D
Acq: 15 Jan 2025 11:03

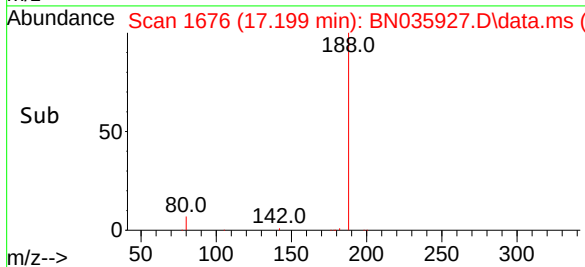
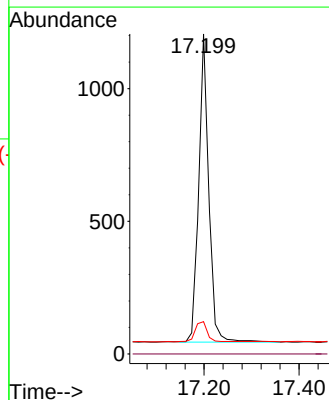
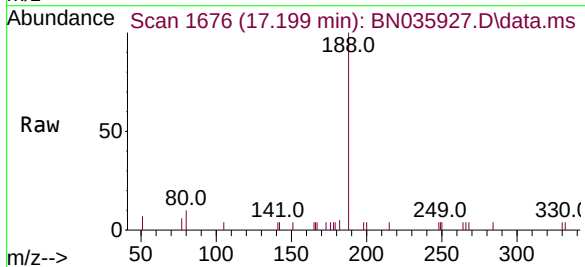
Instrument :
BNA_N
ClientSampleId :
PB166053BL

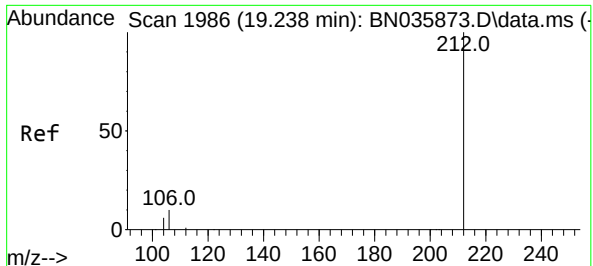
Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.2	30.5	45.7
170	26.8	20.8	31.2



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.199 min Scan# 1676
Delta R.T. -0.011 min
Lab File: BN035927.D
Acq: 15 Jan 2025 11:03

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	7.3	10.9





#27

Fluoranthene-d10

Concen: 0.488 ng

RT: 19.225 min Scan# 19

Delta R.T. -0.013 min

Lab File: BN035927.D

Acq: 15 Jan 2025 11:03

Instrument :

BNA_N

ClientSampleId :

PB166053BL

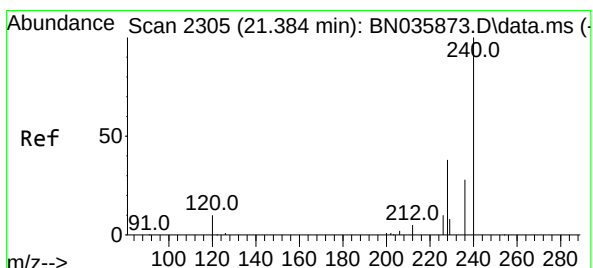
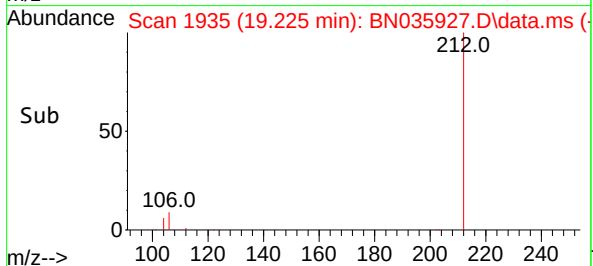
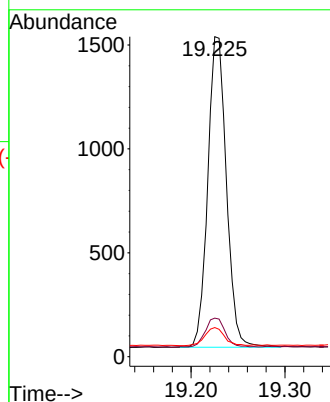
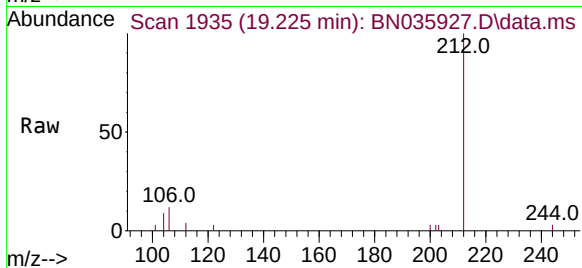
Tgt Ion:212 Resp: 2056

Ion Ratio Lower Upper

212 100

106 10.1 9.0 13.6

104 6.1 5.4 8.2



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.376 min Scan# 2256

Delta R.T. -0.008 min

Lab File: BN035927.D

Acq: 15 Jan 2025 11:03

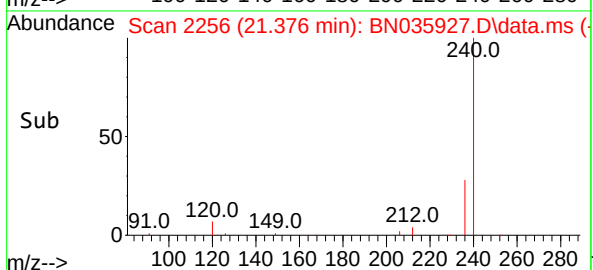
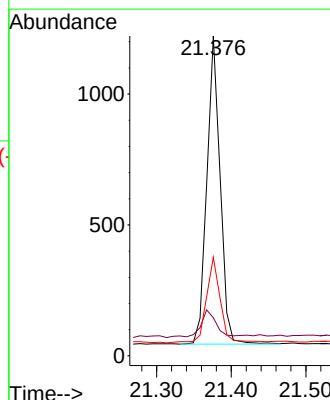
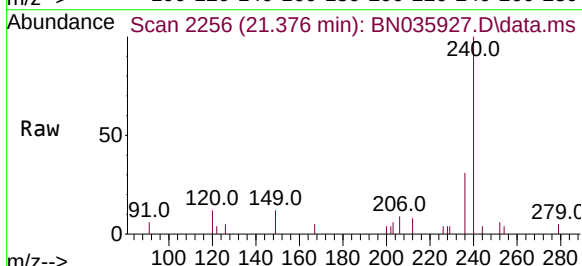
Tgt Ion:240 Resp: 1454

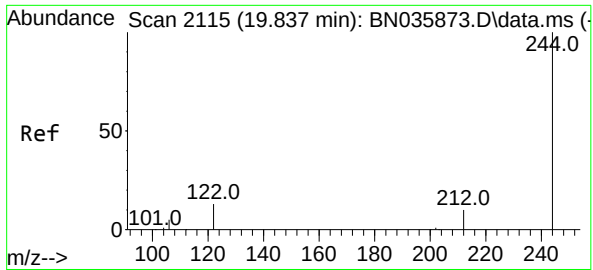
Ion Ratio Lower Upper

240 100

120 11.9 11.1 16.7

236 30.9 24.6 36.8

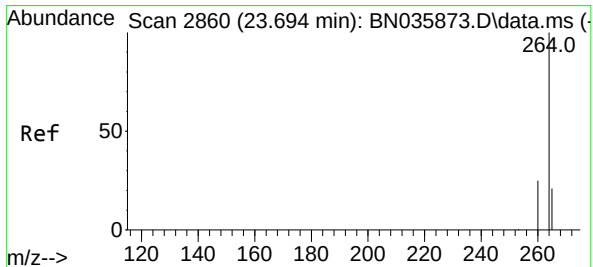
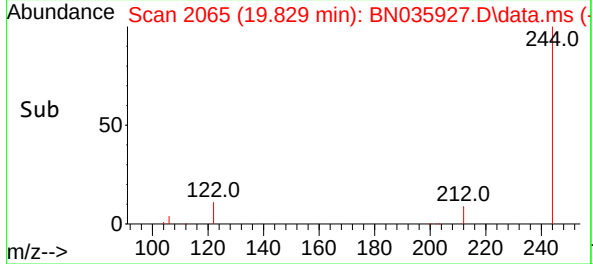
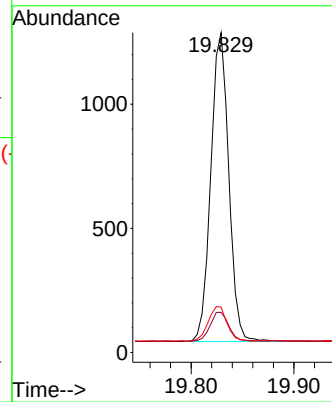
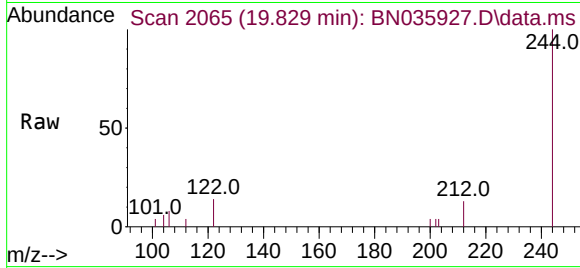




#31
Terphenyl-d14
Concen: 0.519 ng
RT: 19.829 min Scan# 2065
Delta R.T. -0.008 min
Lab File: BN035927.D
Acq: 15 Jan 2025 11:03

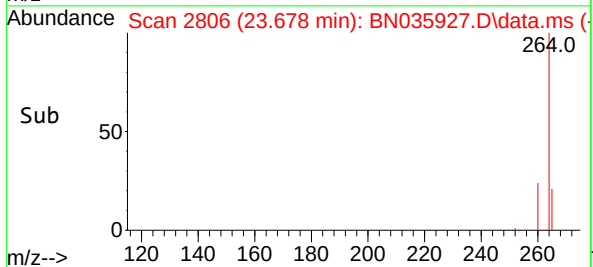
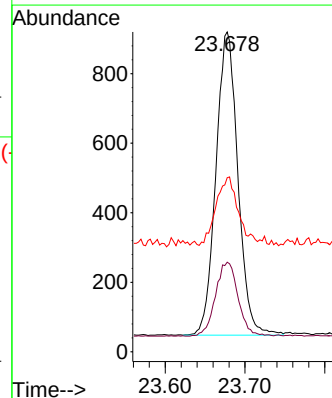
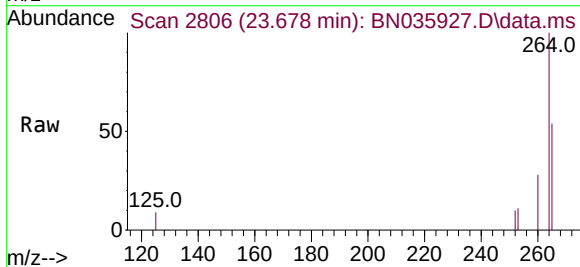
Instrument :
BNA_N
ClientSampleId :
PB166053BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.6	10.1	15.1
122	14.2	12.2	18.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.678 min Scan# 2806
Delta R.T. -0.016 min
Lab File: BN035927.D
Acq: 15 Jan 2025 11:03

Tgt Ion	Ratio	Lower	Upper
264	100		
260	28.0	21.7	32.5
265	54.5	33.9	50.9



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	RW7B - 112G08005-WE13	Date Received:	
Client Sample ID:	PB166053BS	SDG No.:	Q1081
Lab Sample ID:	PB166053BS	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
BN035933.D	1	01/14/25 11:00	01/15/25 16:24	PB166053

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	0.40		30 - 150		100%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.47	*	55 - 111		118%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		109%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	941		7.824			
1146-65-2	Naphthalene-d8	1790		10.622			
15067-26-2	Acenaphthene-d10	956		14.463			
1517-22-2	Phenanthrene-d10	1890		17.199			
1719-03-5	Chrysene-d12	1500		21.376			
1520-96-3	Perylene-d12	1680		23.681			

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\BN011525\
 Data File : BN035933.D
 Acq On : 15 Jan 2025 16:24
 Operator : RC/JU
 Sample : PB166053BS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166053BS

Quant Time: Jan 15 16:58:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

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

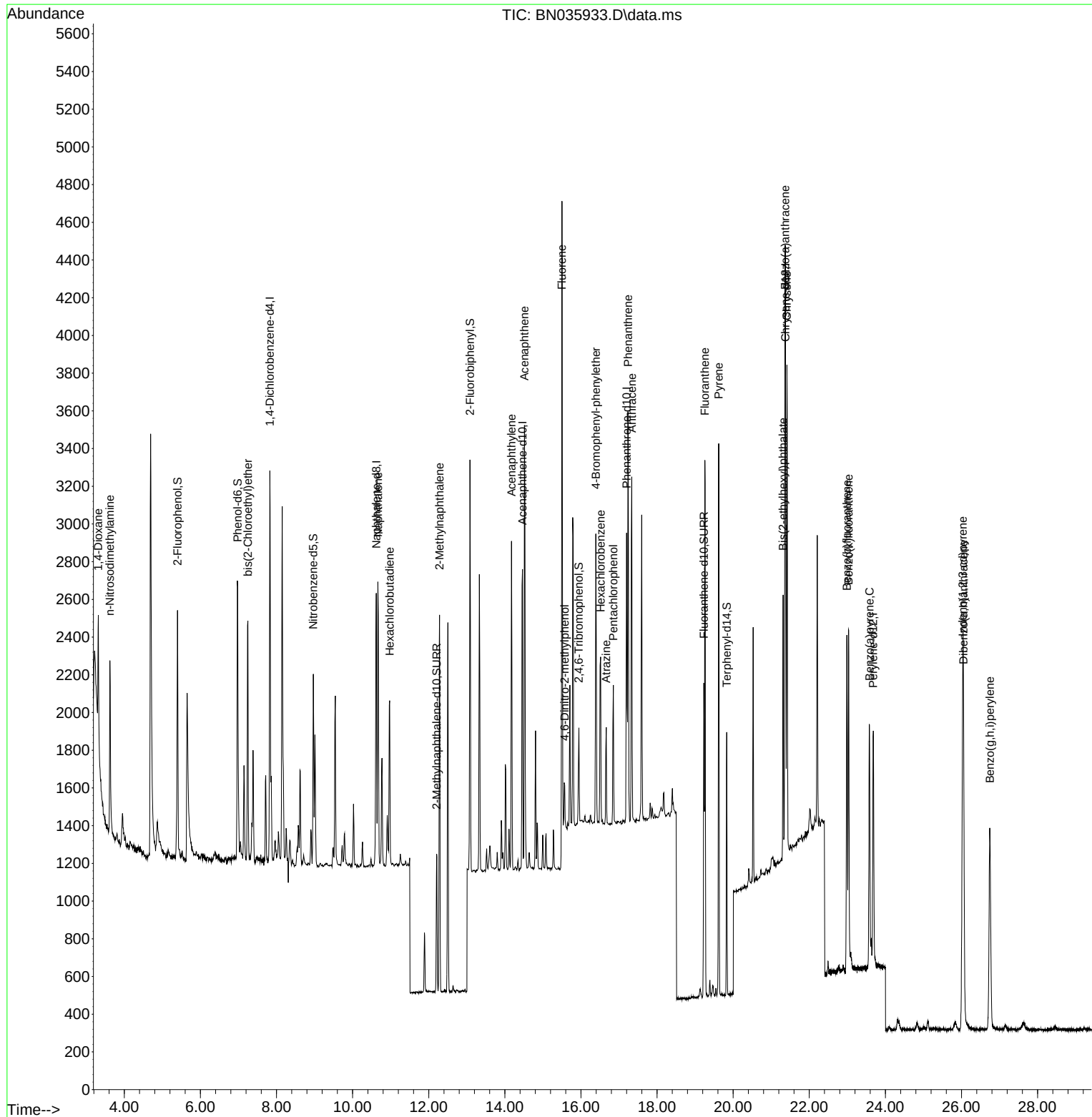
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.824	152	941	0.400	ng	-0.01
7) Naphthalene-d8	10.622	136	1790	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	956	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1886	0.400	ng	-0.01
29) Chrysene-d12	21.376	240	1502	0.400	ng	0.00
35) Perylene-d12	23.681	264	1677	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.398	112	866	0.375	ng	-0.01
5) Phenol-d6	6.979	99	1047	0.365	ng	0.00
8) Nitrobenzene-d5	8.967	82	668	0.471	ng	-0.01
11) 2-Methylnaphthalene-d10	12.208	152	959	0.400	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	272	0.593	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	1687	0.402	ng	0.00
27) Fluoranthene-d10	19.230	212	1885	0.403	ng	0.00
31) Terphenyl-d14	19.829	244	1304	0.436	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.318	88	333	0.356	ng	# 87
3) n-Nitrosodimethylamine	3.621	42	838	0.514	ng	# 75
6) bis(2-Chloroethyl)ether	7.247	93	779	0.357	ng	94
9) Naphthalene	10.664	128	1963	0.391	ng	97
10) Hexachlorobutadiene	10.974	225	713	0.437	ng	# 100
12) 2-Methylnaphthalene	12.284	142	1246	0.401	ng	96
16) Acenaphthylene	14.174	152	1792	0.398	ng	100
17) Acenaphthene	14.516	154	1225	0.415	ng	93
18) Fluorene	15.500	166	1245	0.383	ng	97
20) 4,6-Dinitro-2-methylph...	15.573	198	198	0.604	ng	# 71
21) 4-Bromophenyl-phenylether	16.392	248	606	0.469	ng	90
22) Hexachlorobenzene	16.516	284	722	0.409	ng	97
23) Atrazine	16.665	200	414	0.477	ng	# 88
24) Pentachlorophenol	16.851	266	356	0.570	ng	98
25) Phenanthrene	17.236	178	2223	0.404	ng	99
26) Anthracene	17.335	178	2024	0.404	ng	97
28) Fluoranthene	19.258	202	2556	0.398	ng	# 98
30) Pyrene	19.620	202	2586	0.424	ng	100
32) Benzo(a)anthracene	21.367	228	2269	0.429	ng	100
33) Chrysene	21.412	228	2155	0.389	ng	97
34) Bis(2-ethylhexyl)phtha...	21.313	149	1176	0.546	ng	93
36) Indeno(1,2,3-cd)pyrene	26.031	276	2704	0.409	ng	# 94
37) Benzo(b)fluoranthene	22.988	252	2274	0.395	ng	95
38) Benzo(k)fluoranthene	23.031	252	2218	0.389	ng	95
39) Benzo(a)pyrene	23.581	252	1965	0.394	ng	# 95
40) Dibenzo(a,h)anthracene	26.055	278	2188	0.416	ng	100
41) Benzo(g,h,i)perylene	26.745	276	2332	0.396	ng	96

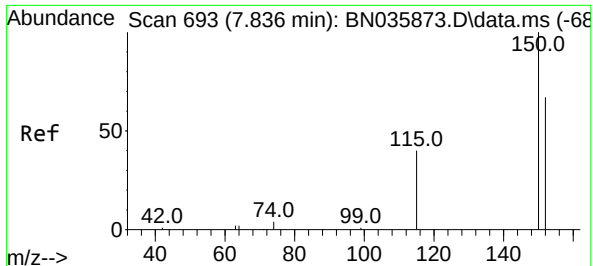
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035933.D
Acq On : 15 Jan 2025 16:24
Operator : RC/JU
Sample : PB166053BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB166053BS

Quant Time: Jan 15 16:58:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

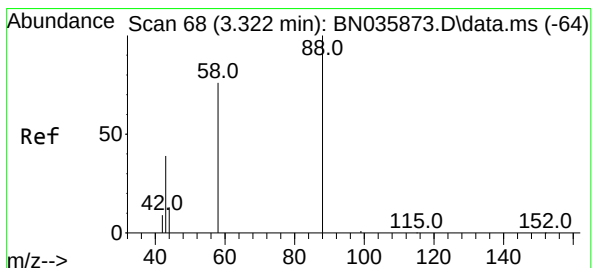
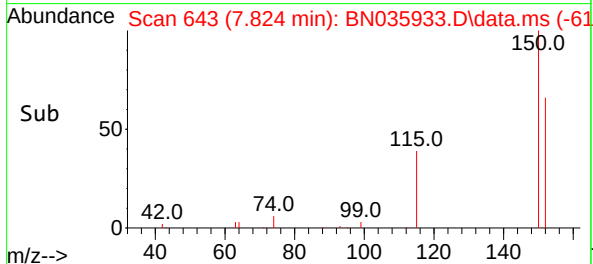
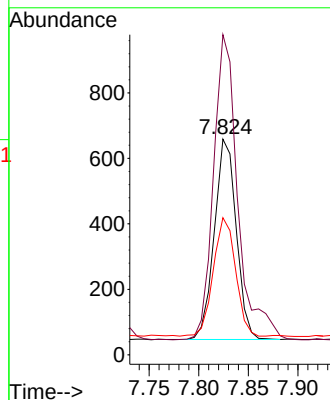
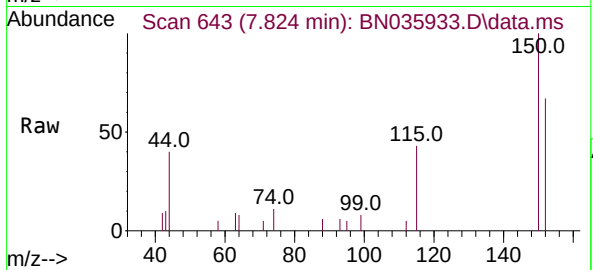




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.824 min Scan# 64
Delta R.T. -0.012 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

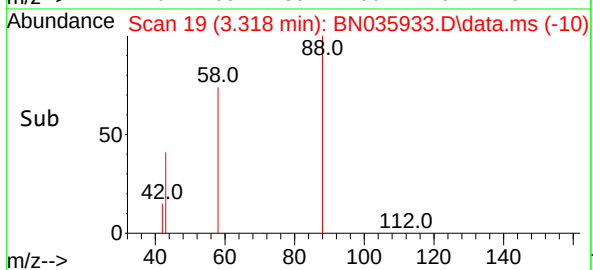
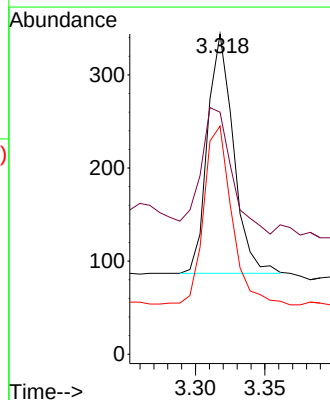
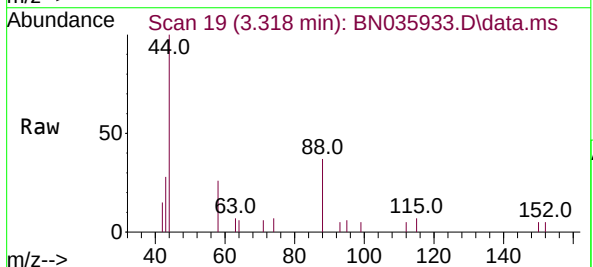
Instrument :
BNA_N
ClientSampleId :
PB166053BS

Tgt Ion: 152 Resp: 941
Ion Ratio Lower Upper
152 100
150 148.4 117.8 176.6
115 63.6 51.0 76.4

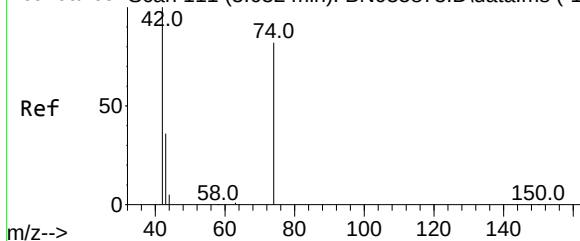


#2
1,4-Dioxane
Concen: 0.356 ng
RT: 3.318 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion: 88 Resp: 333
Ion Ratio Lower Upper
88 100
43 62.8 32.7 49.1#
58 80.2 63.0 94.4



Abundance Scan 111 (3.632 min): BN035873.D\data.ms (-10



#3

n-Nitrosodimethylamine

Concen: 0.514 ng

RT: 3.621 min Scan# 61

Delta R.T. -0.011 min

Lab File: BN035933.D

Acq: 15 Jan 2025 16:24

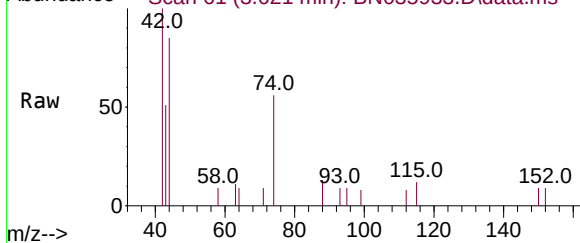
Instrument :

BNA_N

ClientSampleId :

PB166053BS

Abundance Scan 61 (3.621 min): BN035933.D\data.ms



Tgt Ion: 42 Resp: 838

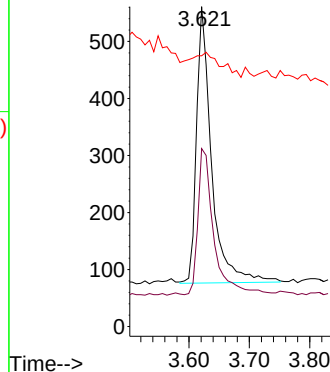
Ion Ratio Lower Upper

42 100

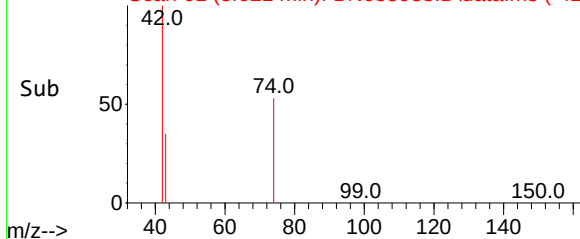
74 55.6 62.2 93.2#

44 17.3 7.1 10.7#

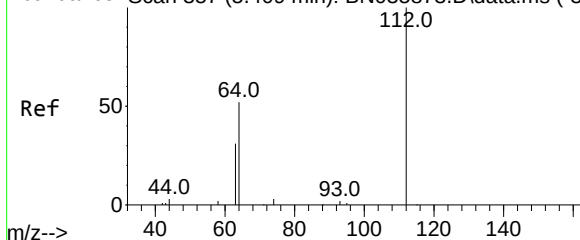
Abundance



Abundance Scan 61 (3.621 min): BN035933.D\data.ms (-42)



Abundance Scan 357 (5.409 min): BN035873.D\data.ms (-34



#4

2-Fluorophenol

Concen: 0.375 ng

RT: 5.398 min Scan# 307

Delta R.T. -0.011 min

Lab File: BN035933.D

Acq: 15 Jan 2025 16:24

Tgt Ion: 112 Resp: 866

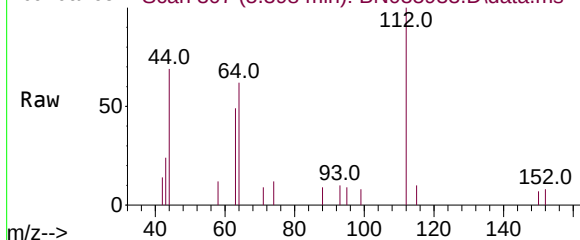
Ion Ratio Lower Upper

112 100

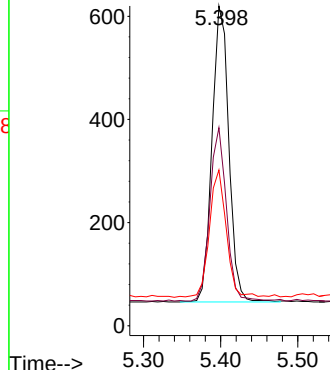
64 58.0 48.2 72.2

63 43.4 30.0 45.0

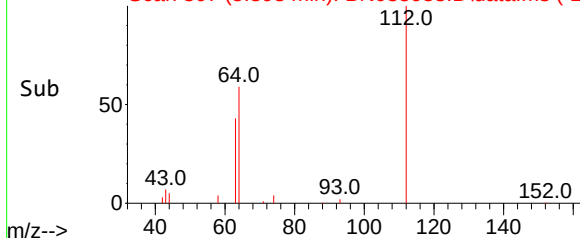
Abundance Scan 307 (5.398 min): BN035933.D\data.ms

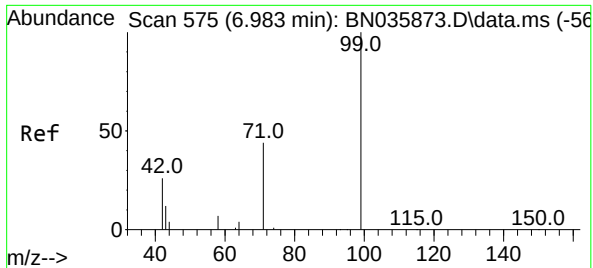


Abundance



Abundance Scan 307 (5.398 min): BN035933.D\data.ms (-28

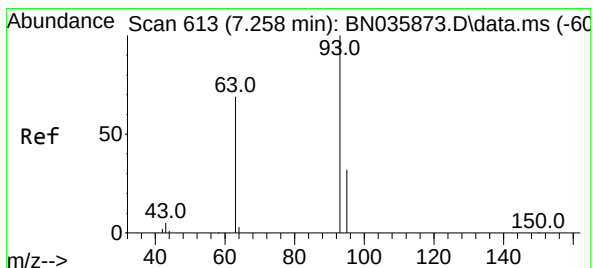
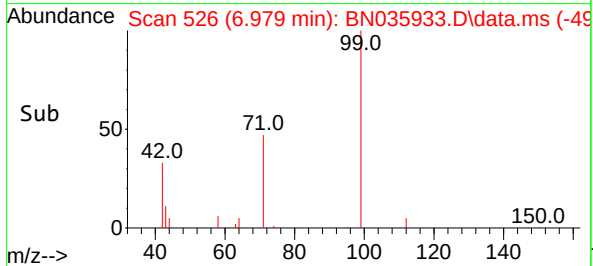
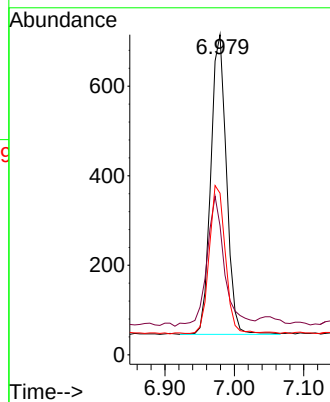
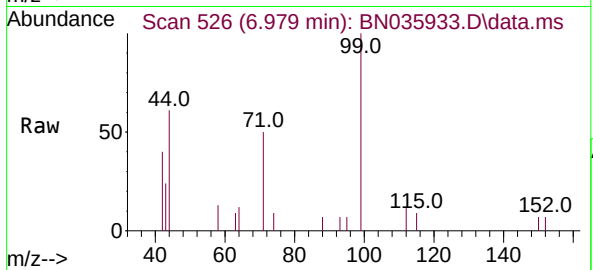




#5
Phenol-d6
Concen: 0.365 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

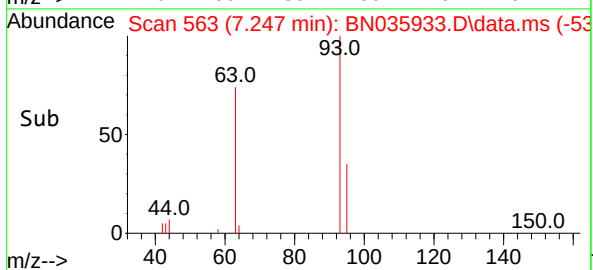
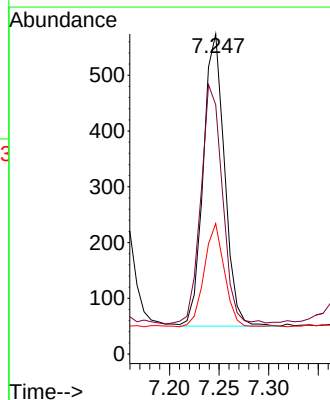
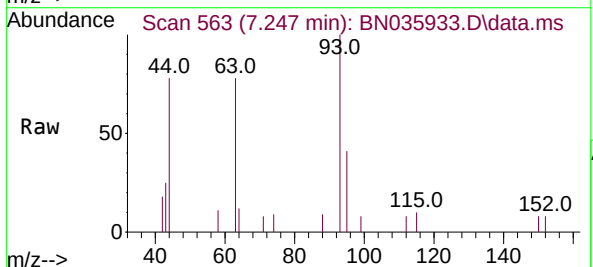
Instrument :
BNA_N
ClientSampleId :
PB166053BS

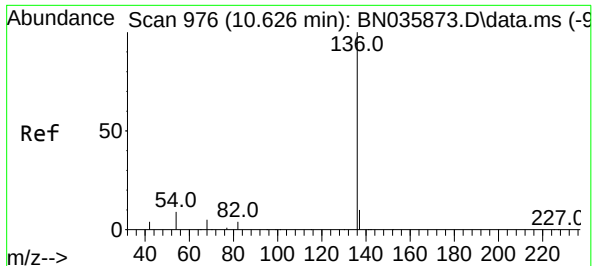
Tgt Ion: 99 Resp: 1047
Ion Ratio Lower Upper
99 100
42 49.1 23.5 35.3#
71 50.6 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.357 ng
RT: 7.247 min Scan# 563
Delta R.T. -0.011 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion: 93 Resp: 779
Ion Ratio Lower Upper
93 100
63 83.7 62.0 93.0
95 34.3 25.5 38.3

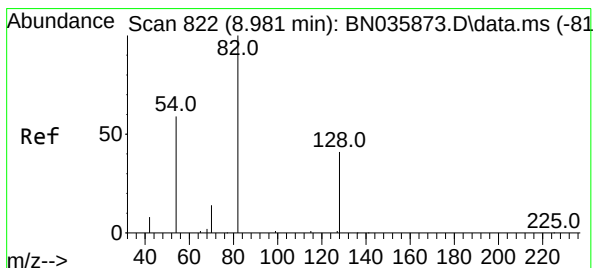
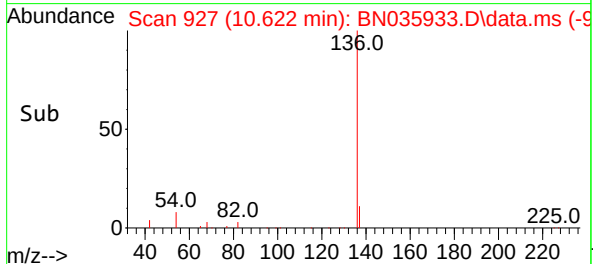
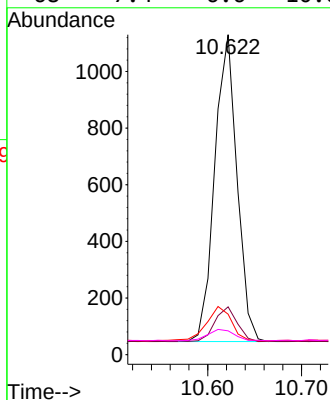
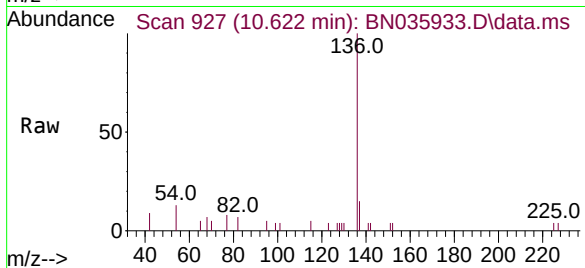




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

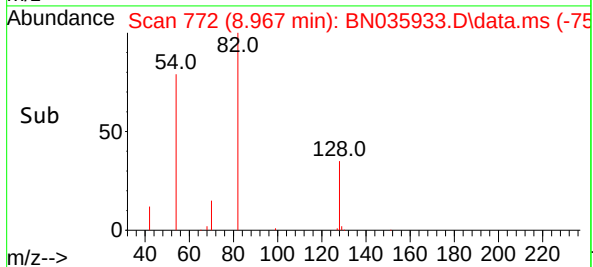
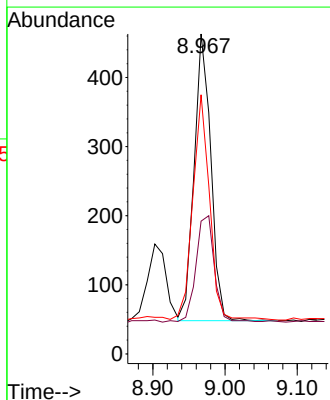
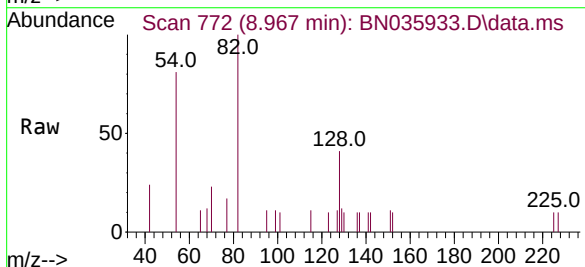
Instrument :
BNA_N
ClientSampleId :
PB166053BS

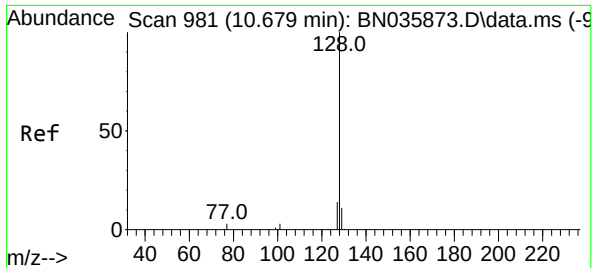
Tgt Ion:	136	Resp:	1790
Ion	Ratio	Lower	Upper
136	100		
137	15.0	10.6	15.8
54	12.7	9.8	14.6
68	7.4	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.471 ng
RT: 8.967 min Scan# 772
Delta R.T. -0.015 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion:	82	Resp:	668
Ion	Ratio	Lower	Upper
82	100		
128	41.5	36.9	55.3
54	81.0	50.4	75.6

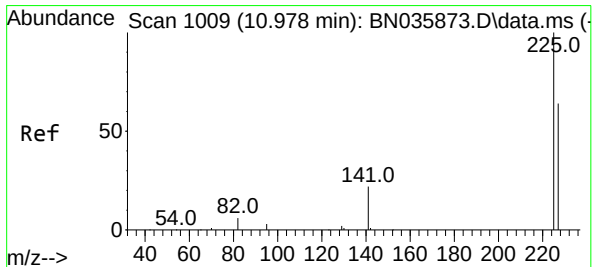
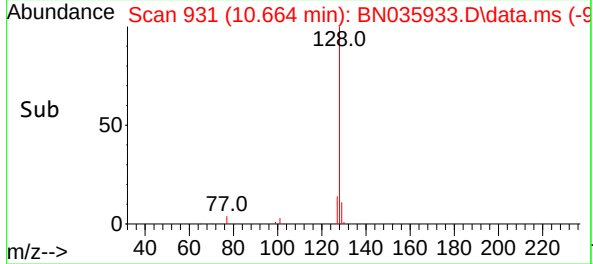
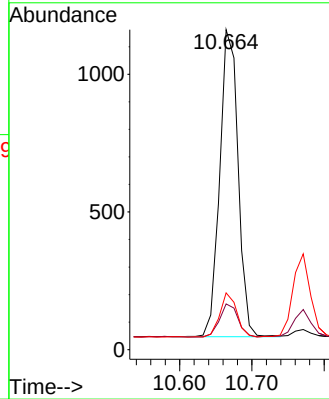
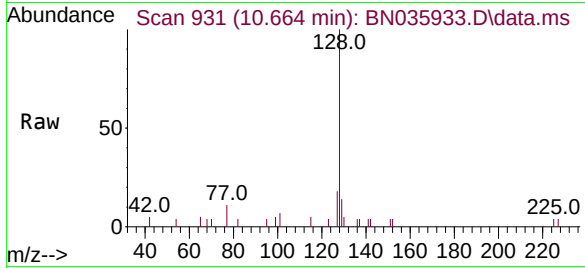




#9
Naphthalene
Concen: 0.391 ng
RT: 10.664 min Scan# 91
Delta R.T. -0.015 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

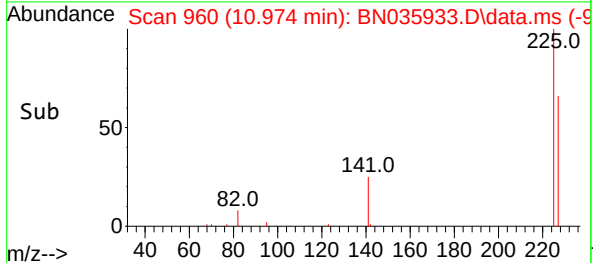
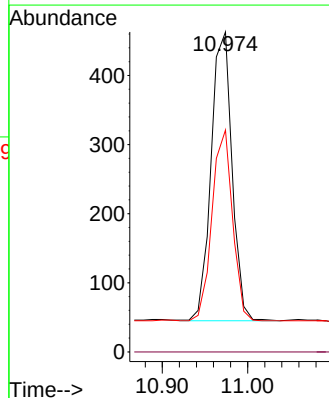
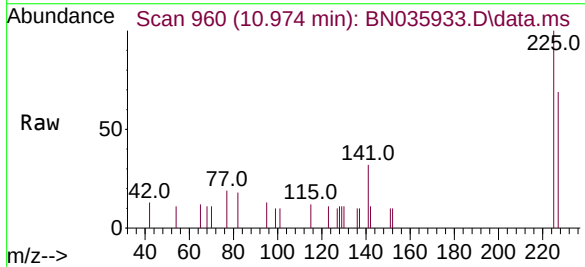
Instrument :
BNA_N
ClientSampleId :
PB166053BS

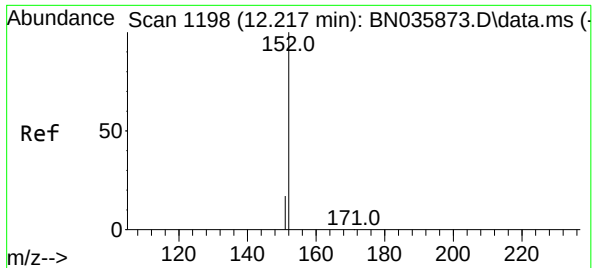
Tgt Ion:	128	Resp:	1963
Ion	Ratio	Lower	Upper
128	100		
129	14.3	10.6	16.0
127	17.7	12.8	19.2



#10
Hexachlorobutadiene
Concen: 0.437 ng
RT: 10.974 min Scan# 960
Delta R.T. -0.004 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion:	225	Resp:	713
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	51.5	77.3

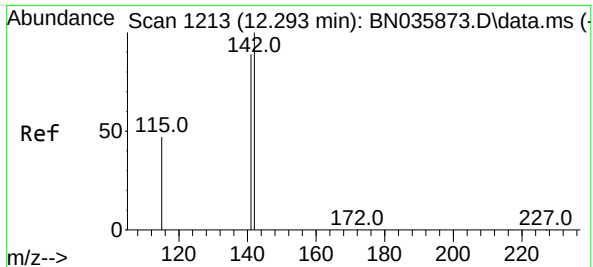
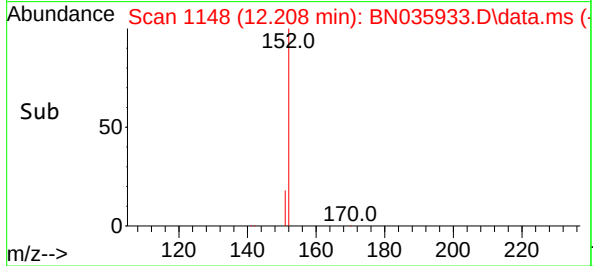
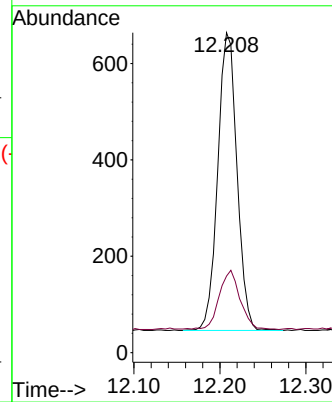
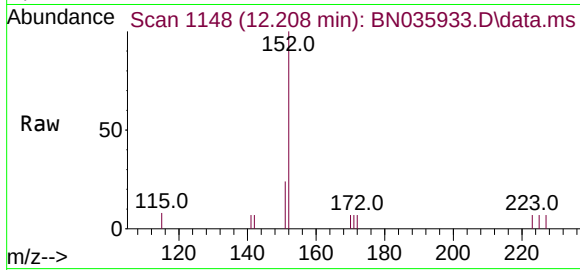




#11
2-Methylnaphthalene-d10
Concen: 0.400 ng
RT: 12.208 min Scan# 1163
Delta R.T. -0.009 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

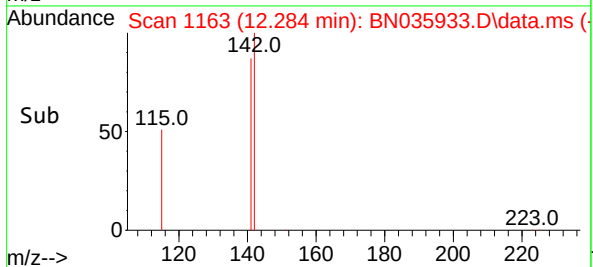
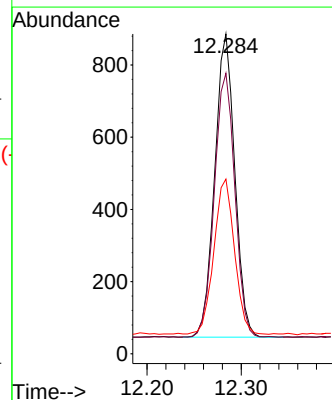
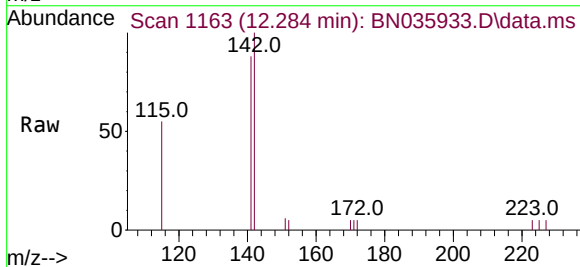
Instrument :
BNA_N
ClientSampleId :
PB166053BS

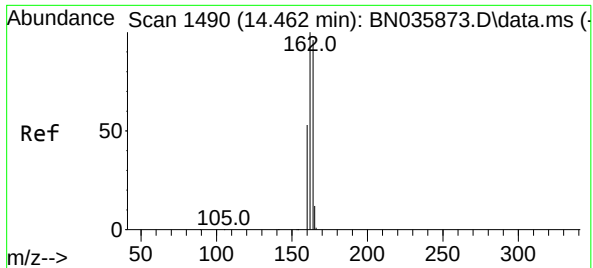
Tgt Ion:152 Resp: 959
Ion Ratio Lower Upper
152 100
151 21.7 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.401 ng
RT: 12.284 min Scan# 1163
Delta R.T. -0.009 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion:142 Resp: 1246
Ion Ratio Lower Upper
142 100
141 87.7 71.9 107.9
115 54.6 39.6 59.4

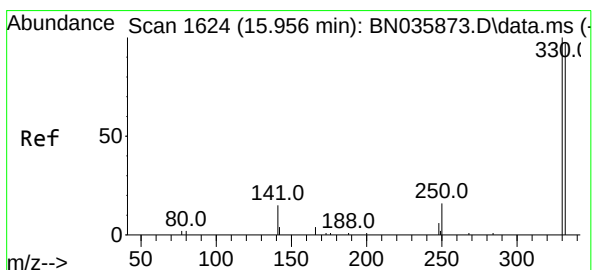
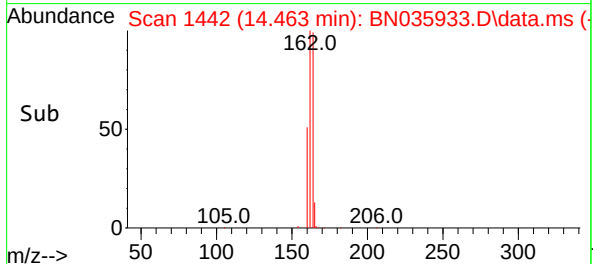
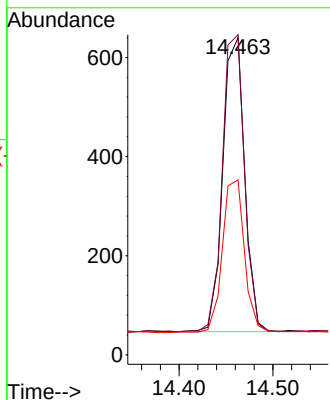
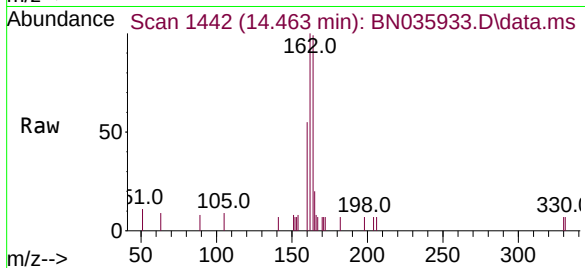




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

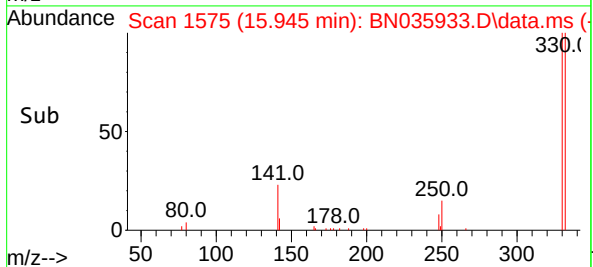
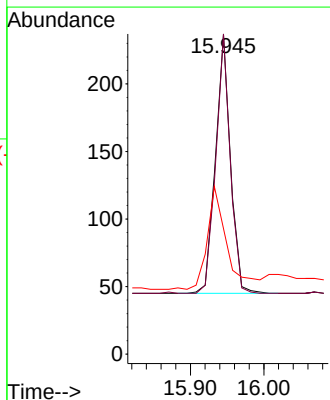
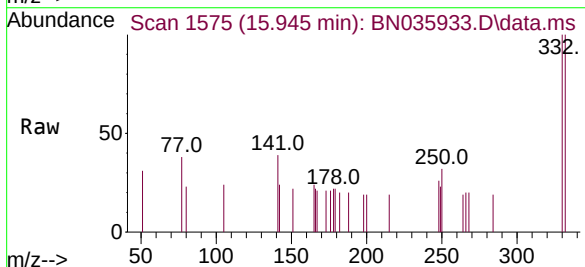
Instrument :
BNA_N
ClientSampleId :
PB166053BS

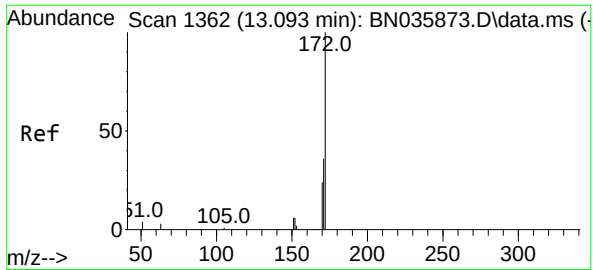
Tgt Ion	164	Resp:	956
Ion	Ratio	Lower	Upper
164	100		
162	100.9	83.1	124.7
160	55.2	46.0	69.0



#14
2,4,6-Tribromophenol
Concen: 0.593 ng
RT: 15.945 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion	330	Resp:	272
Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.2	115.8
141	51.8	31.6	47.4

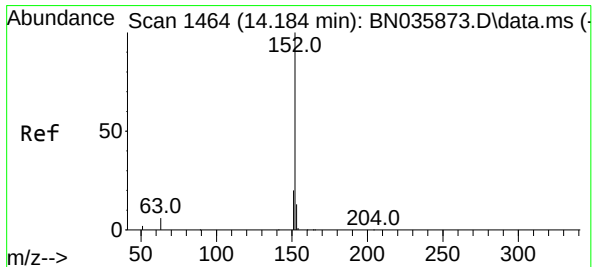
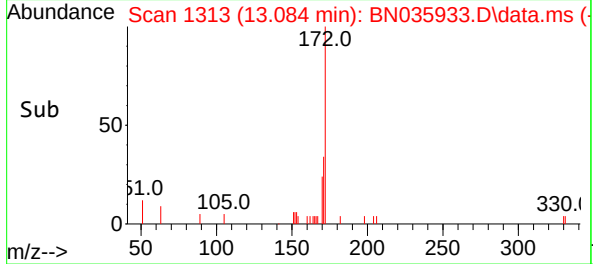
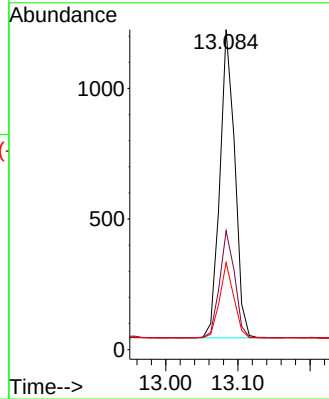
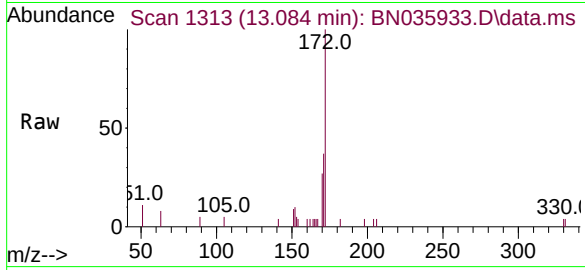




#15
2-Fluorobiphenyl
Concen: 0.402 ng
RT: 13.084 min Scan# 1415
Delta R.T. -0.010 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

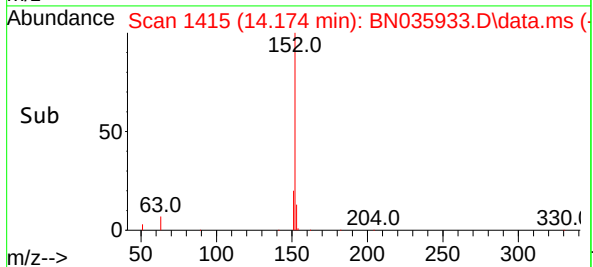
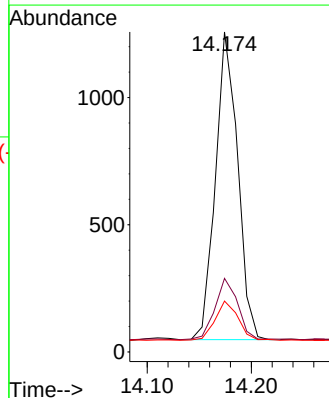
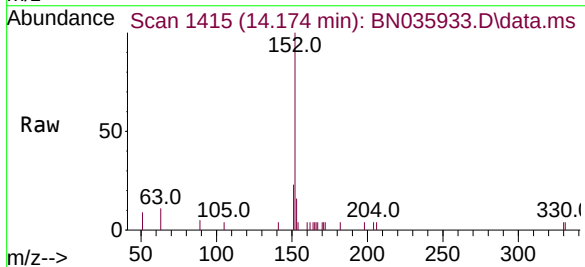
Instrument :
BNA_N
ClientSampleId :
PB166053BS

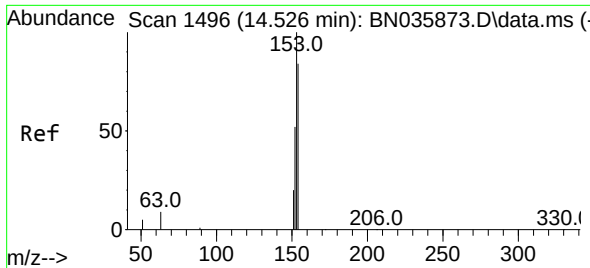
Tgt Ion:	172	Resp:	1687
Ion Ratio	Lower	Upper	
172	100		
171	37.1	30.5	45.7
170	27.2	20.8	31.2



#16
Acenaphthylene
Concen: 0.398 ng
RT: 14.174 min Scan# 1415
Delta R.T. -0.010 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion:	152	Resp:	1792
Ion Ratio	Lower	Upper	
152	100		
151	20.5	16.3	24.5
153	13.2	10.6	15.8

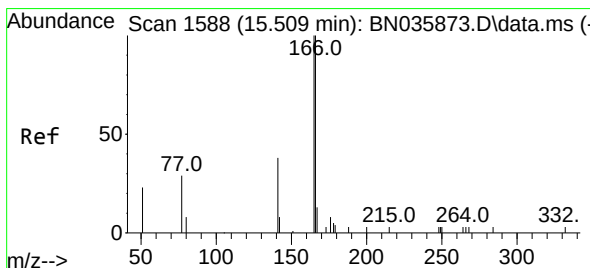
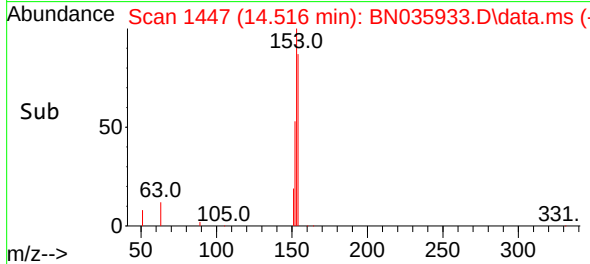
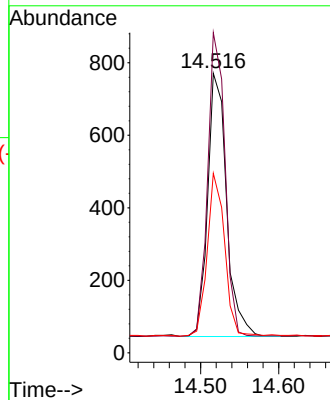
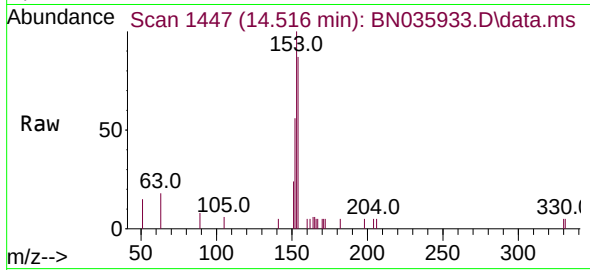




#17
Acenaphthene
Concen: 0.415 ng
RT: 14.516 min Scan# 1496
Delta R.T. -0.010 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

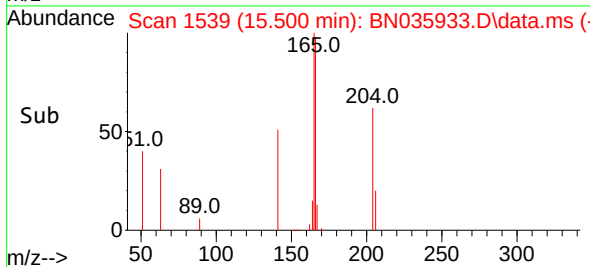
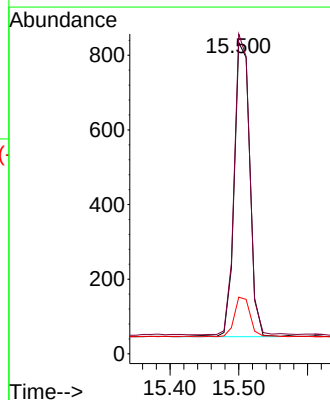
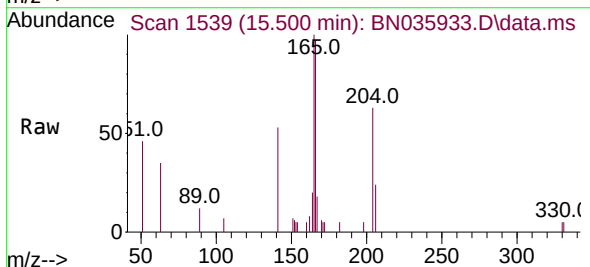
Instrument :
BNA_N
ClientSampleId :
PB166053BS

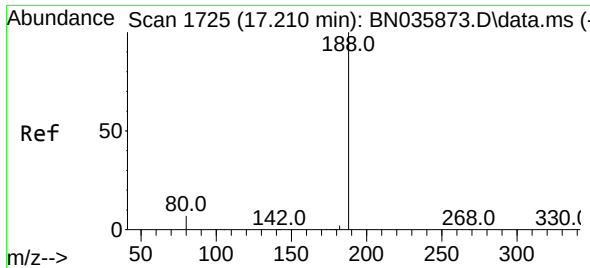
Tgt Ion:154 Resp: 1225
Ion Ratio Lower Upper
154 100
153 105.0 90.5 135.7
152 57.3 48.6 73.0



#18
Fluorene
Concen: 0.383 ng
RT: 15.500 min Scan# 1539
Delta R.T. -0.010 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion:166 Resp: 1245
Ion Ratio Lower Upper
166 100
165 103.7 80.6 120.8
167 14.0 11.4 17.0

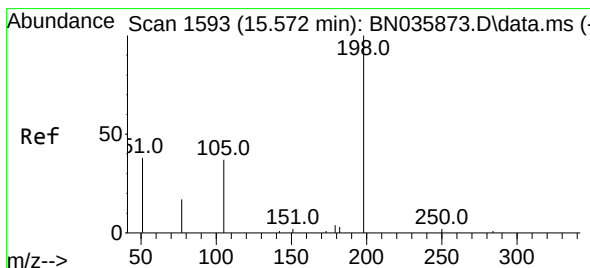
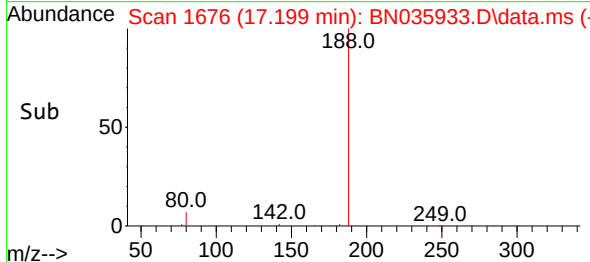
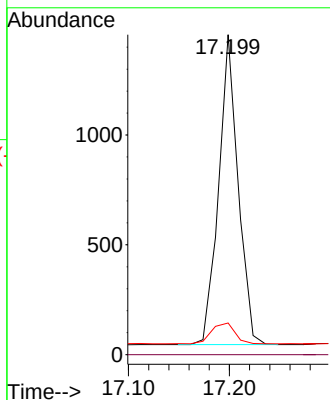
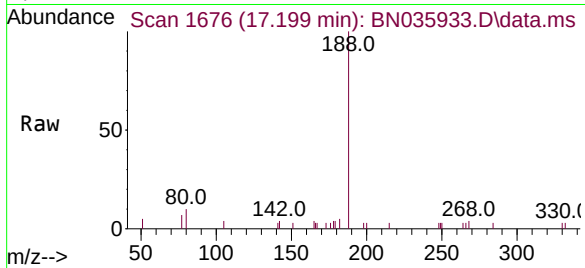




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.199 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

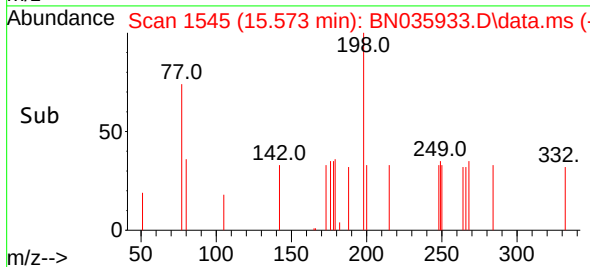
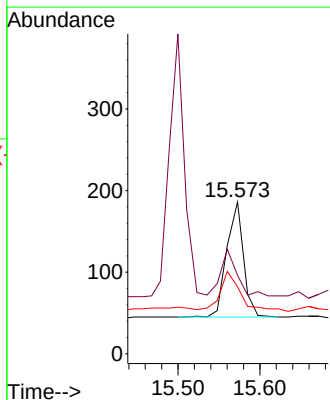
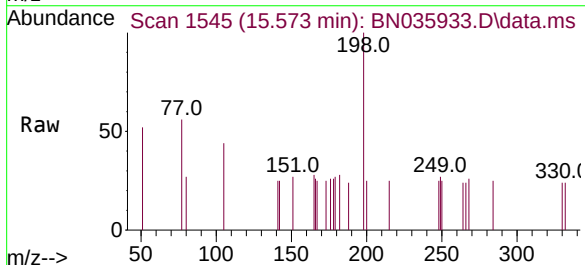
Instrument :
BNA_N
ClientSampleId :
PB166053BS

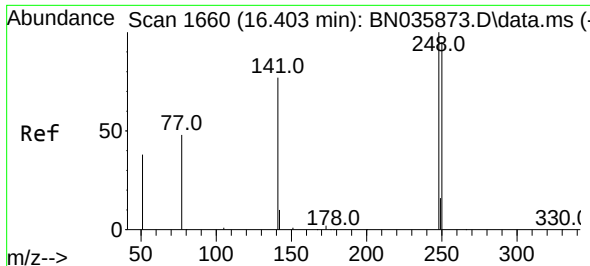
Tgt Ion	188	Resp	1886
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.9	7.3	10.9



#20
4,6-Dinitro-2-methylphenol
Concen: 0.604 ng
RT: 15.573 min Scan# 1545
Delta R.T. 0.001 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion	198	Resp	198
Ion Ratio	Lower	Upper	
198	100		
51	51.6	64.3	96.5#
105	44.1	50.0	75.0#

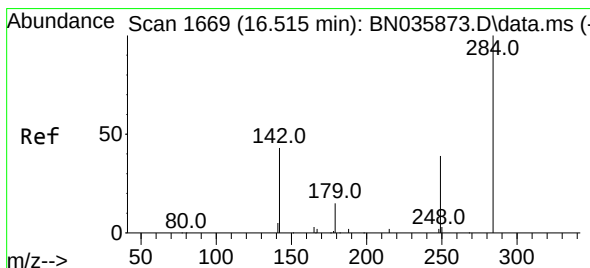
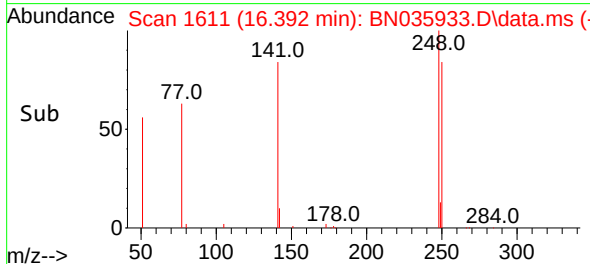
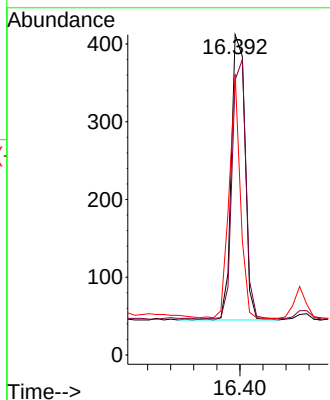
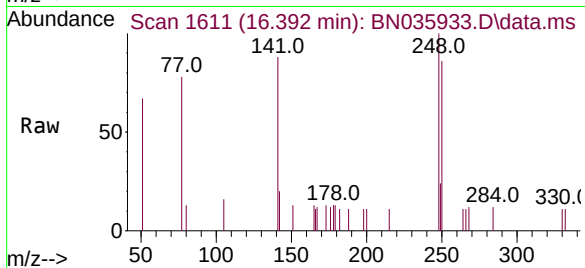




#21
4-Bromophenyl-phenylether
Concen: 0.469 ng
RT: 16.392 min Scan# 1611
Delta R.T. -0.011 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

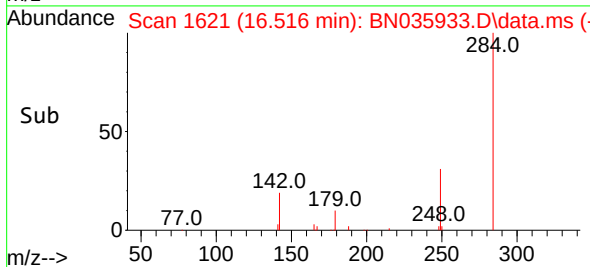
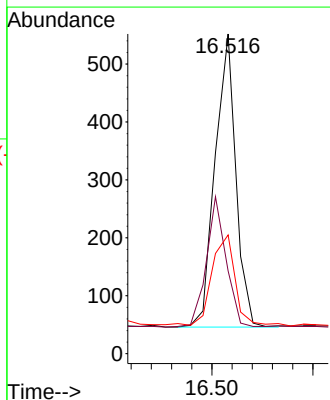
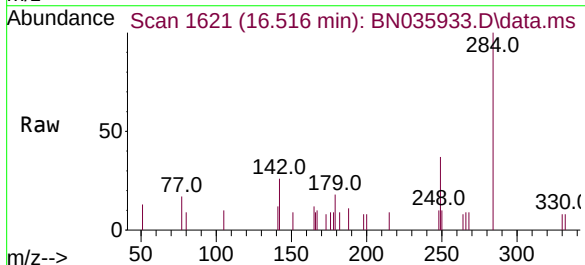
Instrument :
BNA_N
ClientSampleId :
PB166053BS

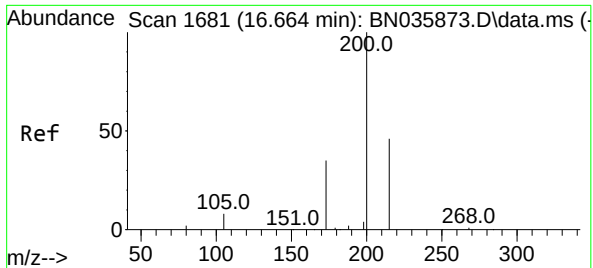
Tgt Ion:248 Resp: 606
Ion Ratio Lower Upper
248 100
250 85.9 76.8 115.2
141 87.6 63.6 95.4



#22
Hexachlorobenzene
Concen: 0.409 ng
RT: 16.516 min Scan# 1621
Delta R.T. 0.001 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion:284 Resp: 722
Ion Ratio Lower Upper
284 100
142 42.2 31.4 47.0
249 35.3 27.8 41.8

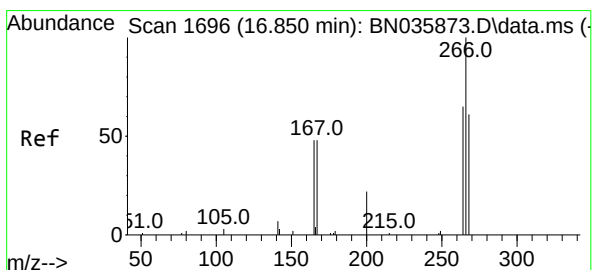
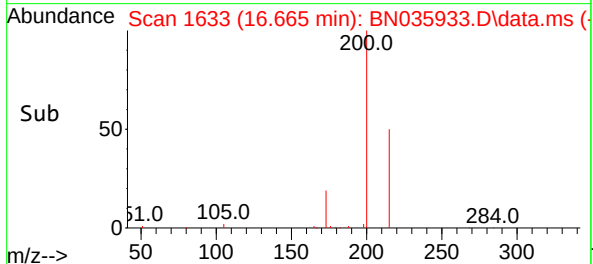
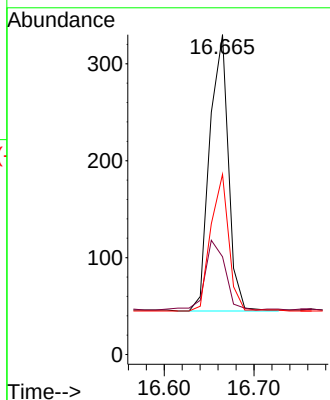
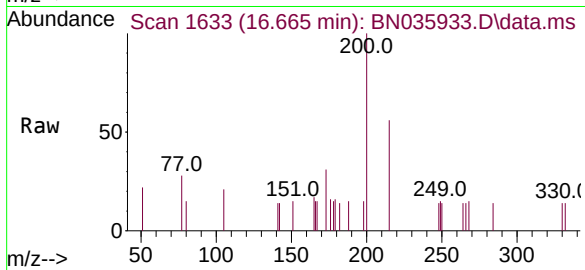




#23
Atrazine
Concen: 0.477 ng
RT: 16.665 min Scan# 1633
Delta R.T. 0.001 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

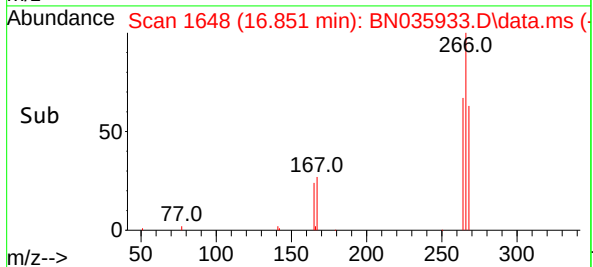
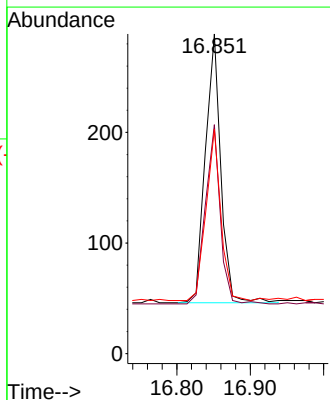
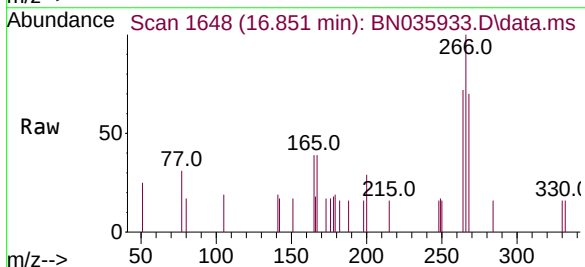
Instrument :
BNA_N
ClientSampleId :
PB166053BS

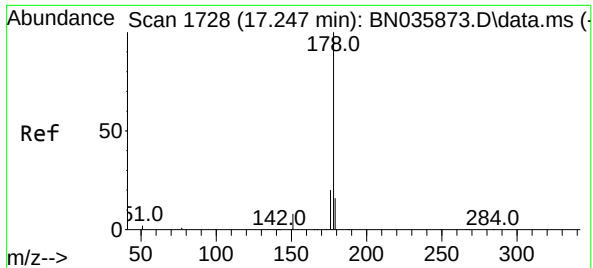
Tgt Ion	Ratio	Lower	Upper
200	100		
173	30.6	35.4	53.0
215	56.4	42.4	63.6



#24
Pentachlorophenol
Concen: 0.570 ng
RT: 16.851 min Scan# 1648
Delta R.T. 0.001 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.5	49.9	74.9
268	61.0	50.2	75.2

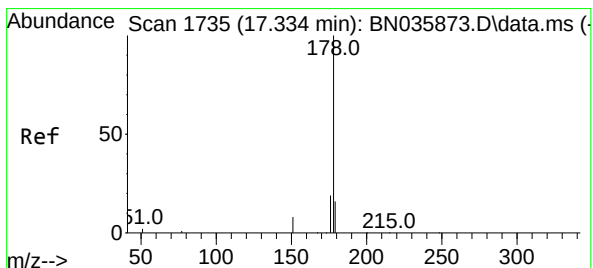
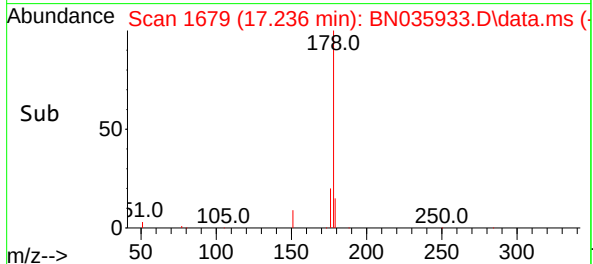
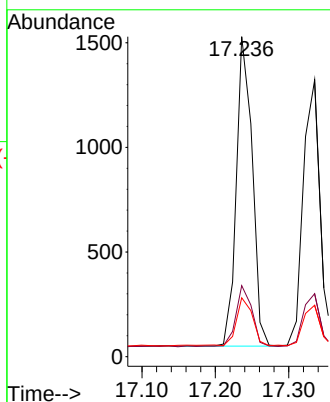
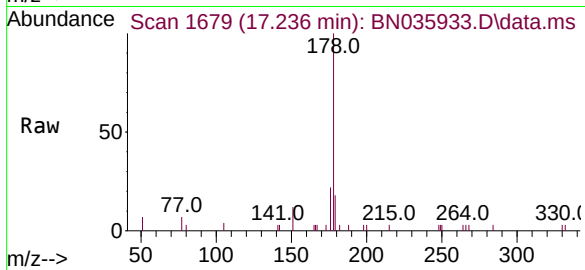




#25
Phenanthrene
Concen: 0.404 ng
RT: 17.236 min Scan# 1679
Delta R.T. -0.011 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

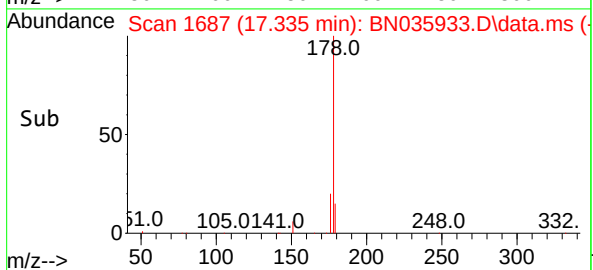
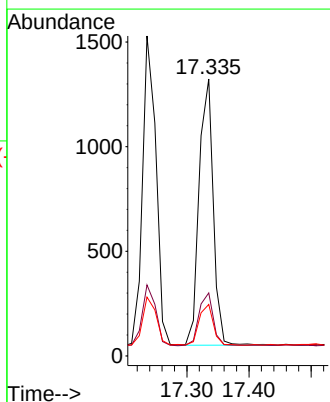
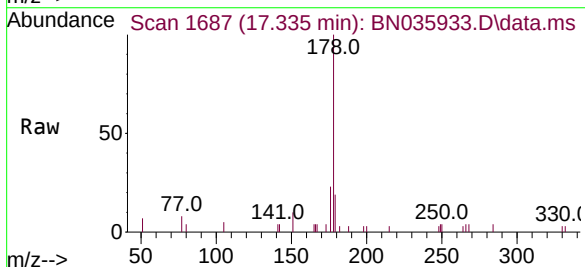
Instrument :
BNA_N
ClientSampleId :
PB166053BS

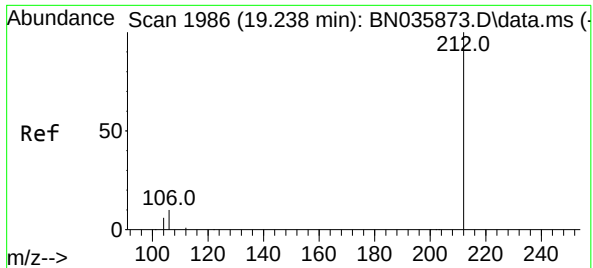
Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.5	15.9	23.9
179	16.2	12.9	19.3



#26
Anthracene
Concen: 0.404 ng
RT: 17.335 min Scan# 1687
Delta R.T. 0.001 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.3	15.0	22.6
179	15.1	13.0	19.6

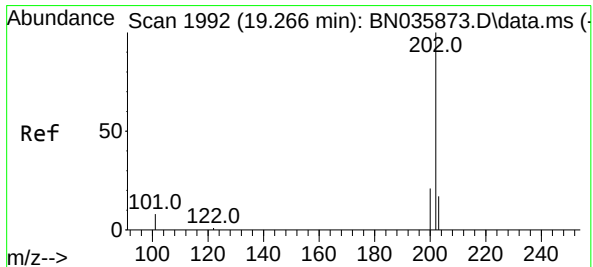
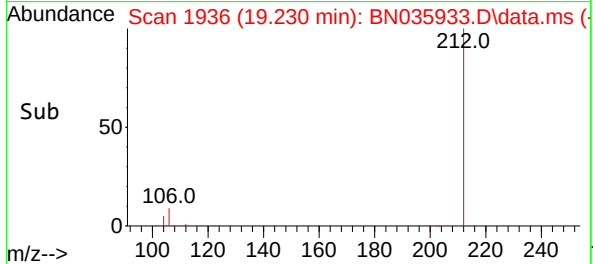
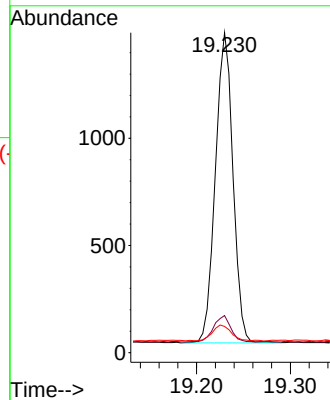
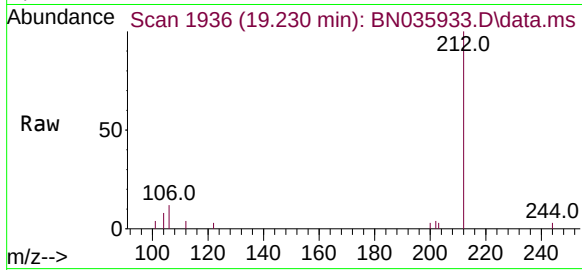




#27
Fluoranthene-d10
Concen: 0.403 ng
RT: 19.230 min Scan# 1942
Delta R.T. -0.008 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

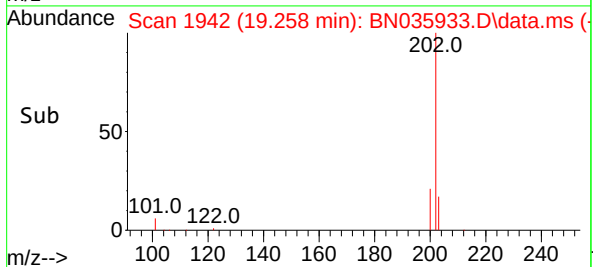
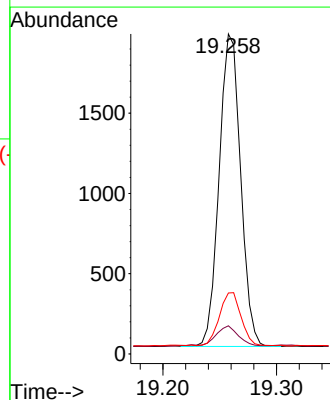
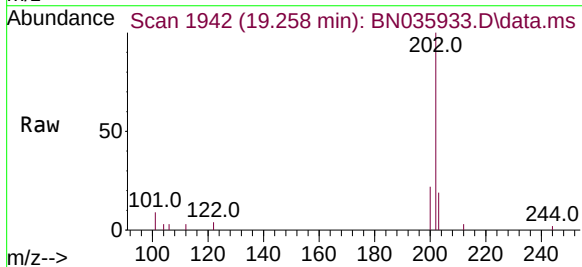
Instrument :
BNA_N
ClientSampleId :
PB166053BS

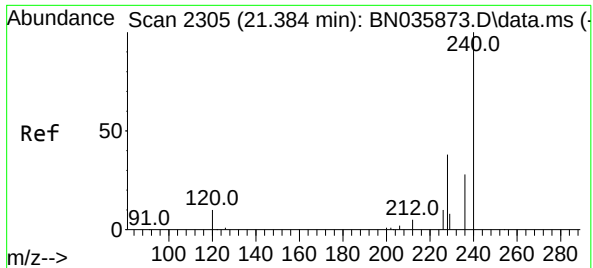
Tgt Ion	Ratio	Lower	Upper
212	100		
106	8.3	9.0	13.6#
104	5.6	5.4	8.2



#28
Fluoranthene
Concen: 0.398 ng
RT: 19.258 min Scan# 1942
Delta R.T. -0.008 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion	Ratio	Lower	Upper
202	100		
101	6.9	7.2	10.8#
203	17.4	13.9	20.9

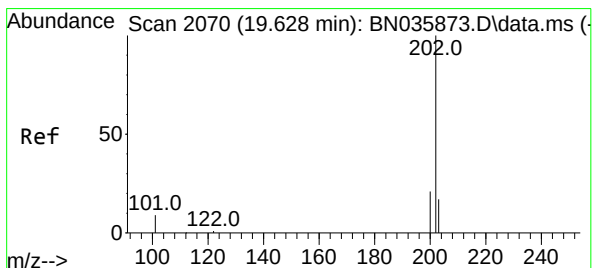
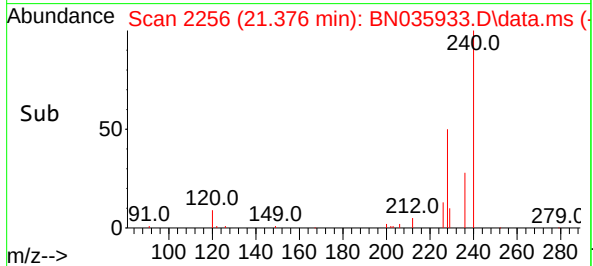
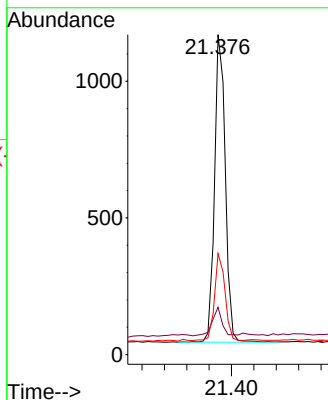
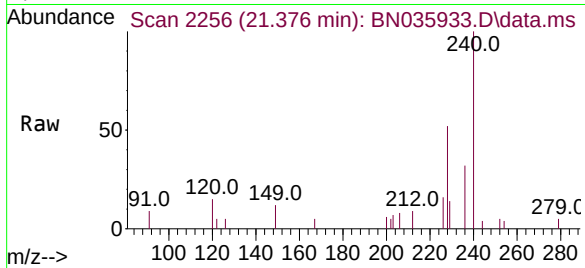




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.376 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

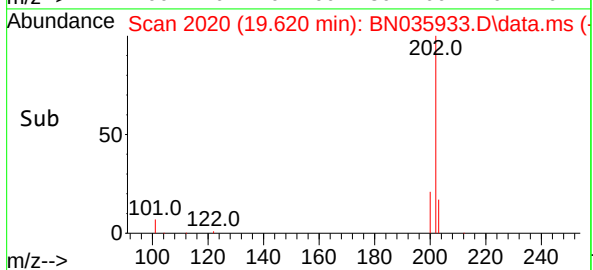
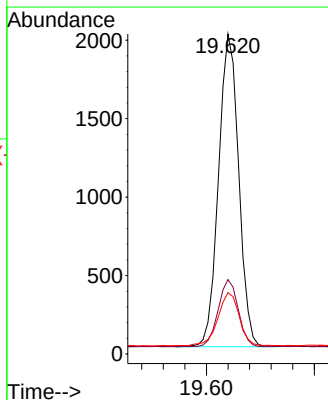
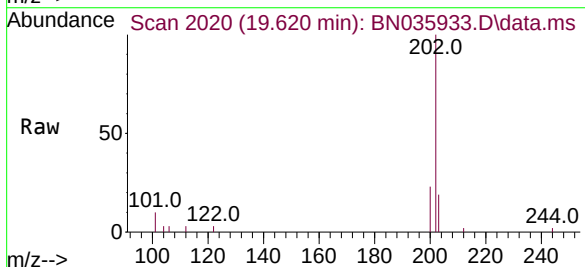
Instrument :
BNA_N
ClientSampleId :
PB166053BS

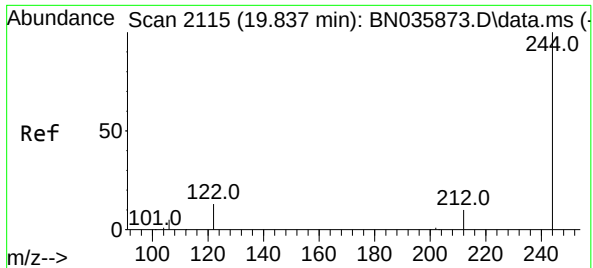
Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.8	11.1	16.7
236	31.6	24.6	36.8



#30
Pyrene
Concen: 0.424 ng
RT: 19.620 min Scan# 2020
Delta R.T. -0.008 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.0	25.6
203	18.0	14.6	22.0

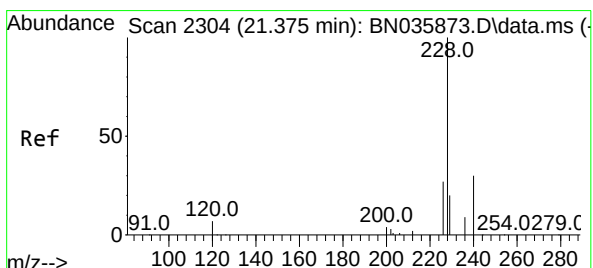
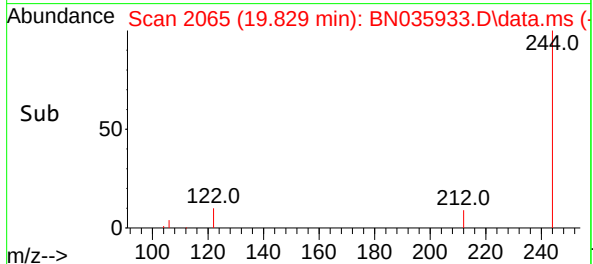
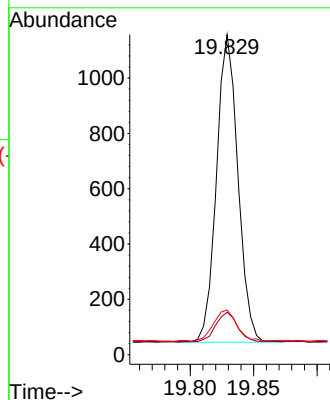
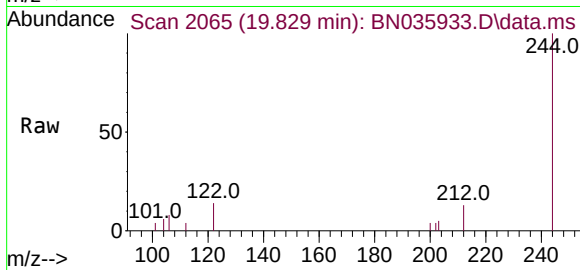




#31
Terphenyl-d14
Concen: 0.436 ng
RT: 19.829 min Scan# 2065
Delta R.T. -0.008 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

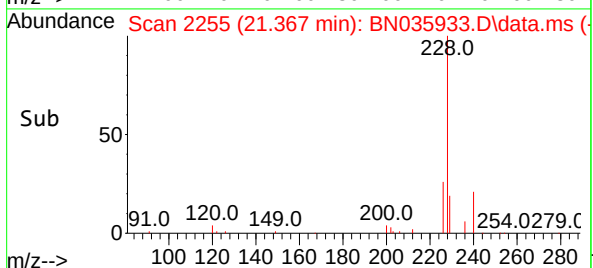
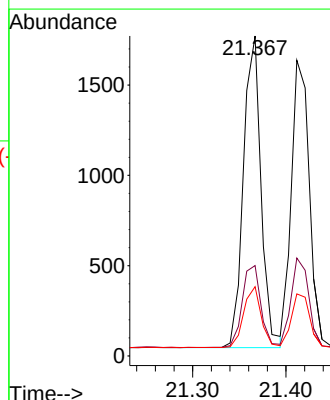
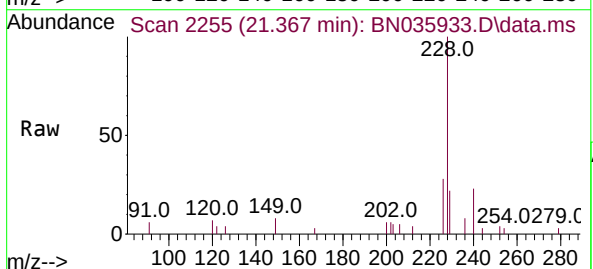
Instrument :
BNA_N
ClientSampleId :
PB166053BS

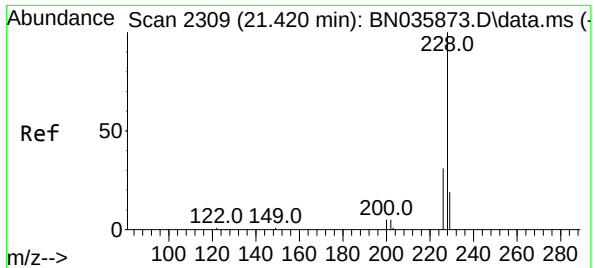
Tgt Ion	Ratio	Lower	Upper
244	100		
212	13.2	10.1	15.1
122	13.9	12.2	18.4



#32
Benzo(a)anthracene
Concen: 0.429 ng
RT: 21.367 min Scan# 2255
Delta R.T. -0.008 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.7	34.1
229	21.7	17.1	25.7

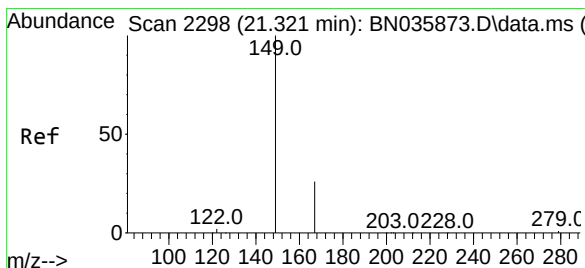
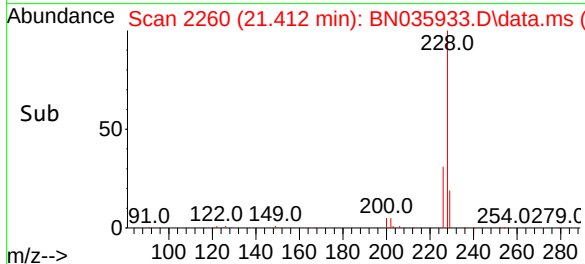
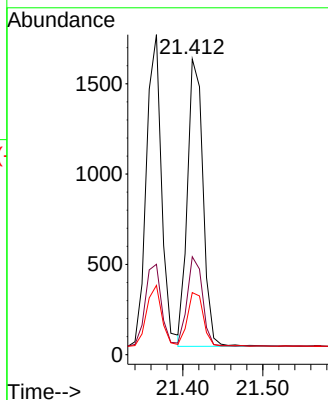
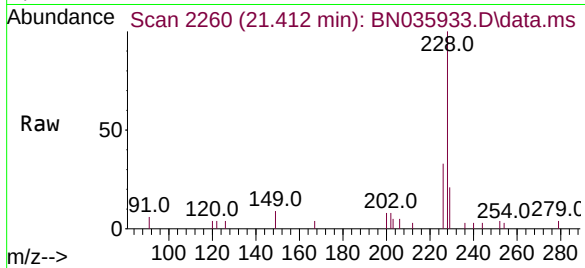




#33
Chrysene
Concen: 0.389 ng
RT: 21.412 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

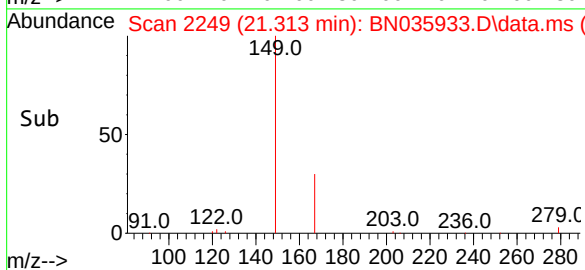
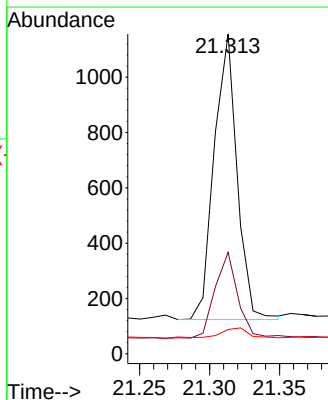
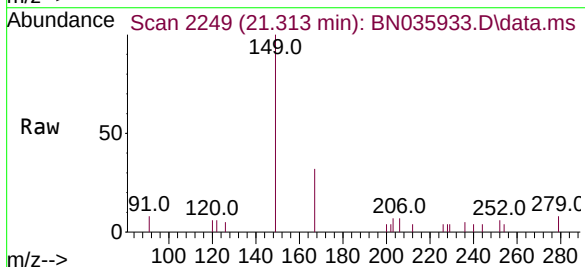
Instrument :
BNA_N
ClientSampleId :
PB166053BS

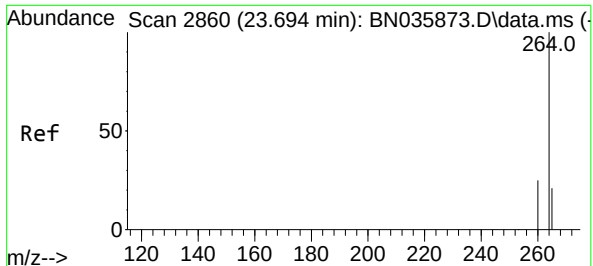
Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.1	25.2	37.8
229	21.0	16.0	24.0



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.546 ng
RT: 21.313 min Scan# 2249
Delta R.T. -0.008 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion	Ratio	Lower	Upper
149	100		
167	30.9	21.4	32.0
279	4.4	3.0	4.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.681 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN035933.D

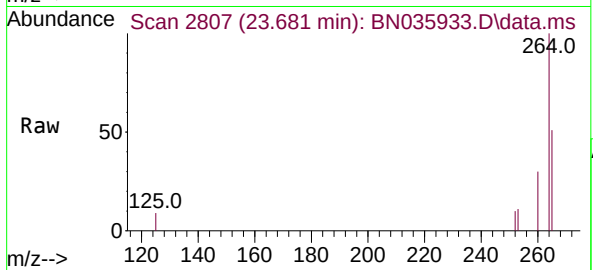
Acq: 15 Jan 2025 16:24

Instrument :

BNA_N

ClientSampleId :

PB166053BS



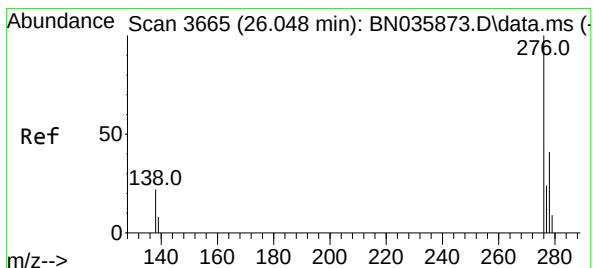
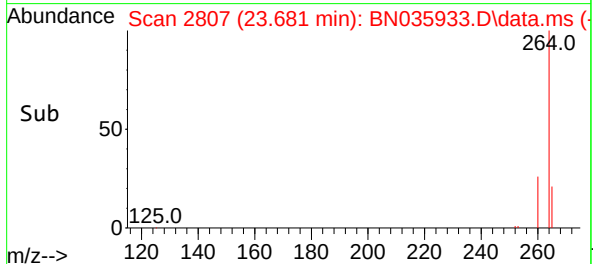
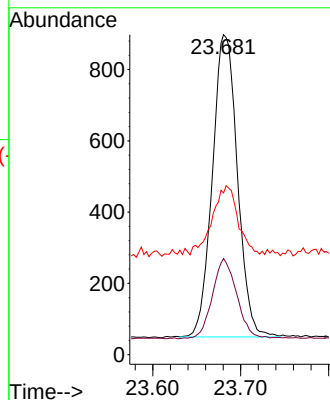
Tgt Ion:264 Resp: 1677

Ion Ratio Lower Upper

264 100

260 30.1 21.7 32.5

265 50.6 33.9 50.9



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.409 ng

RT: 26.031 min Scan# 3611

Delta R.T. -0.016 min

Lab File: BN035933.D

Acq: 15 Jan 2025 16:24

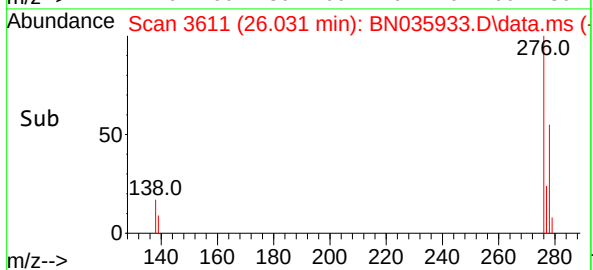
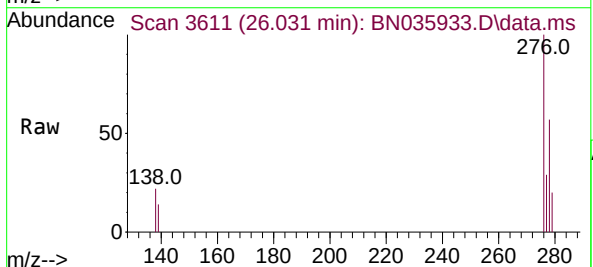
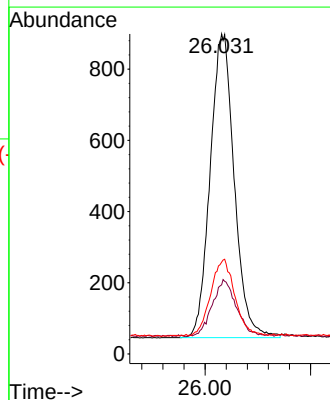
Tgt Ion:276 Resp: 2704

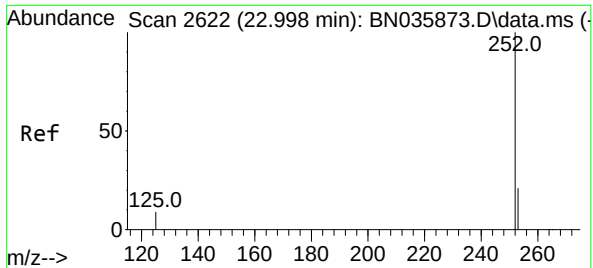
Ion Ratio Lower Upper

276 100

138 18.1 18.9 28.3#

277 24.9 19.5 29.3

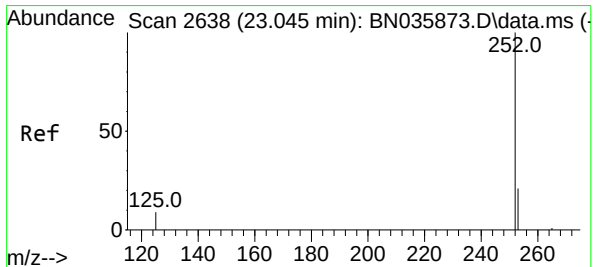
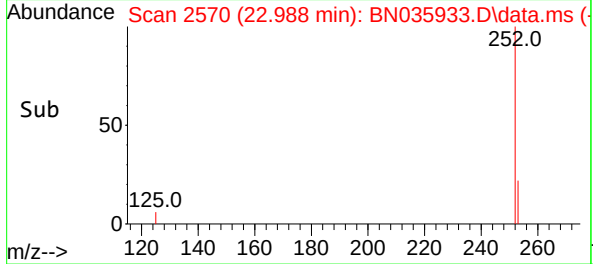
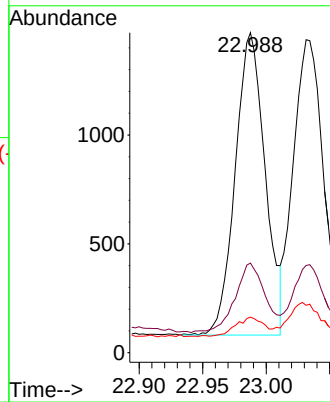
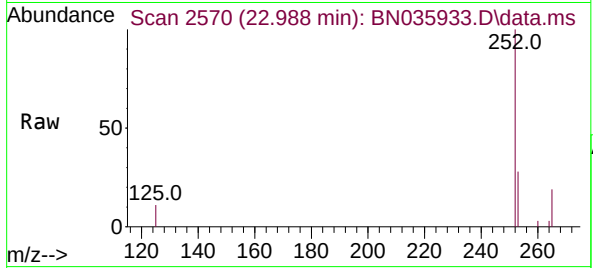




#37
Benzo(b)fluoranthene
Concen: 0.395 ng
RT: 22.988 min Scan# 21
Delta R.T. -0.011 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

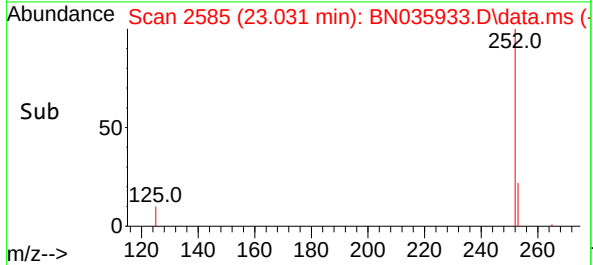
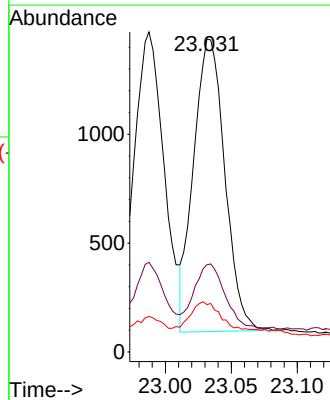
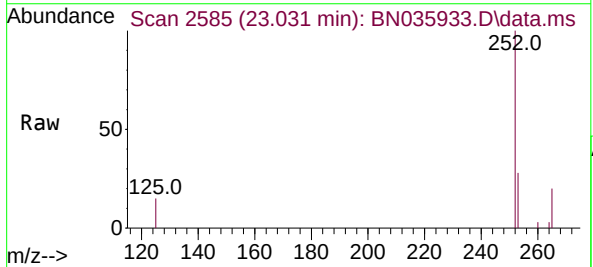
Instrument :
BNA_N
ClientSampleId :
PB166053BS

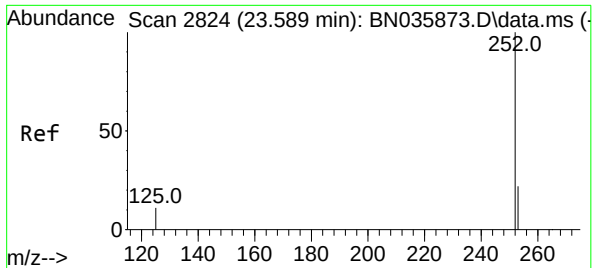
Tgt Ion:252 Resp: 2274
Ion Ratio Lower Upper
252 100
253 28.0 20.1 30.1
125 11.1 9.9 14.9



#38
Benzo(k)fluoranthene
Concen: 0.389 ng
RT: 23.031 min Scan# 2585
Delta R.T. -0.014 min
Lab File: BN035933.D
Acq: 15 Jan 2025 16:24

Tgt Ion:252 Resp: 2218
Ion Ratio Lower Upper
252 100
253 27.9 20.5 30.7
125 15.2 10.6 16.0





#39

Benzo(a)pyrene

Concen: 0.394 ng

RT: 23.581 min Scan# 21

Delta R.T. -0.008 min

Lab File: BN035933.D

Acq: 15 Jan 2025 16:24

Instrument :

BNA_N

ClientSampleId :

PB166053BS

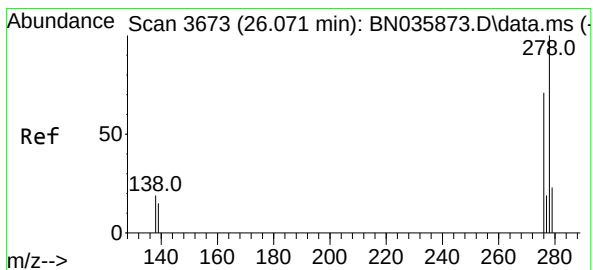
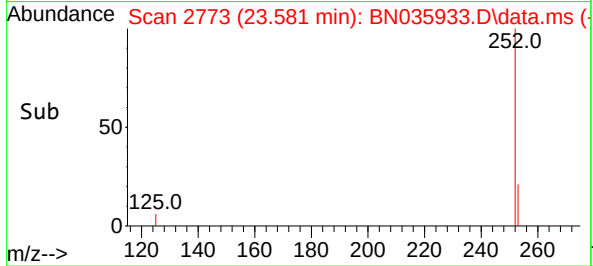
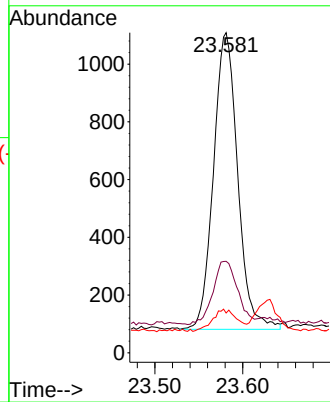
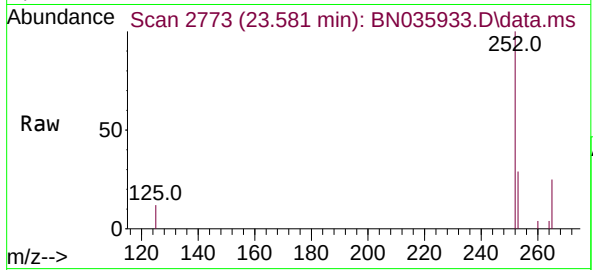
Tgt Ion:252 Resp: 1965

Ion Ratio Lower Upper

252 100

253 28.6 21.5 32.3

125 12.4 12.6 19.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.416 ng

RT: 26.055 min Scan# 3619

Delta R.T. -0.016 min

Lab File: BN035933.D

Acq: 15 Jan 2025 16:24

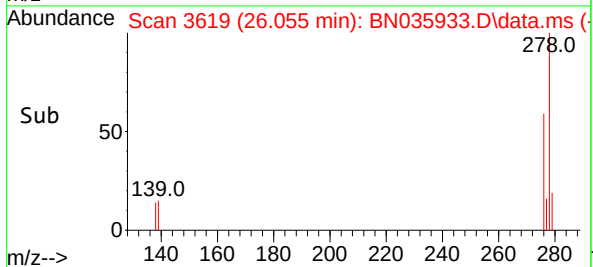
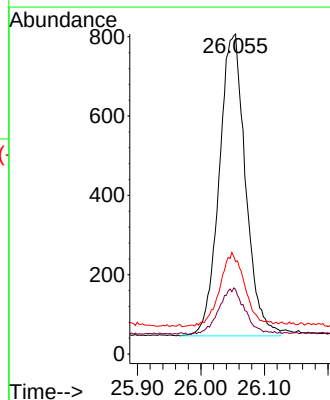
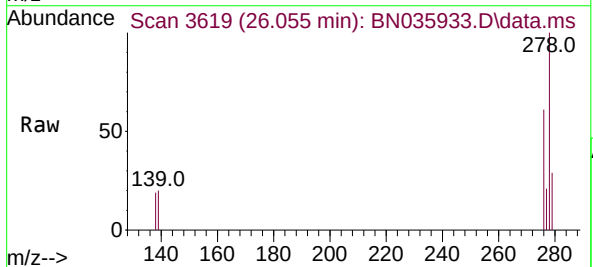
Tgt Ion:278 Resp: 2188

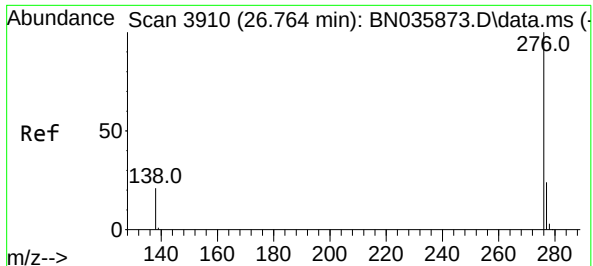
Ion Ratio Lower Upper

278 100

139 20.2 15.9 23.9

279 28.9 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.396 ng

RT: 26.745 min Scan# 3855

Delta R.T. -0.019 min

Lab File: BN035933.D

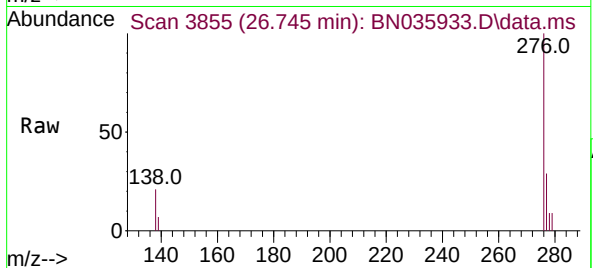
Acq: 15 Jan 2025 16:24

Instrument :

BNA_N

ClientSampleId :

PB166053BS



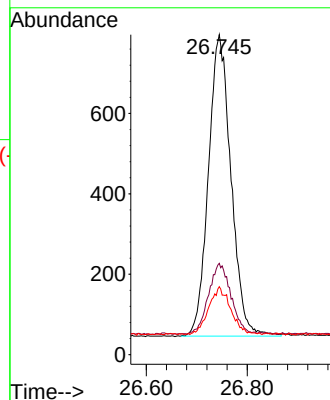
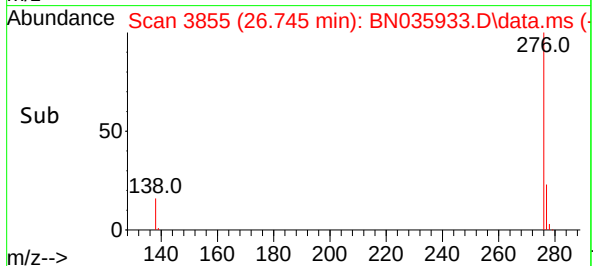
Tgt Ion:276 Resp: 2332

Ion Ratio Lower Upper

276 100

277 28.5 22.8 34.2

138 21.2 20.1 30.1



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	RW7B - 112G08005-WE13	Date Received:	
Client Sample ID:	PB166053BSD	SDG No.:	Q1081
Lab Sample ID:	PB166053BSD	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
BN035934.D	1	01/14/25 11:00	01/15/25 17:00	PB166053

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.41		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		99%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45	*	55 - 111		113%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		104%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	930	7.832				
1146-65-2	Naphthalene-d8	1680	10.622				
15067-26-2	Acenaphthene-d10	890	14.463				
1517-22-2	Phenanthrene-d10	1750	17.199				
1719-03-5	Chrysene-d12	1460	21.376				
1520-96-3	Perylene-d12	1690	23.683				

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\BN011525\
 Data File : BN035934.D
 Acq On : 15 Jan 2025 17:00
 Operator : RC/JU
 Sample : PB166053BSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166053BSD

Quant Time: Jan 15 17:25:12 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 02 15:39:17 2025
 Response via : Initial Calibration

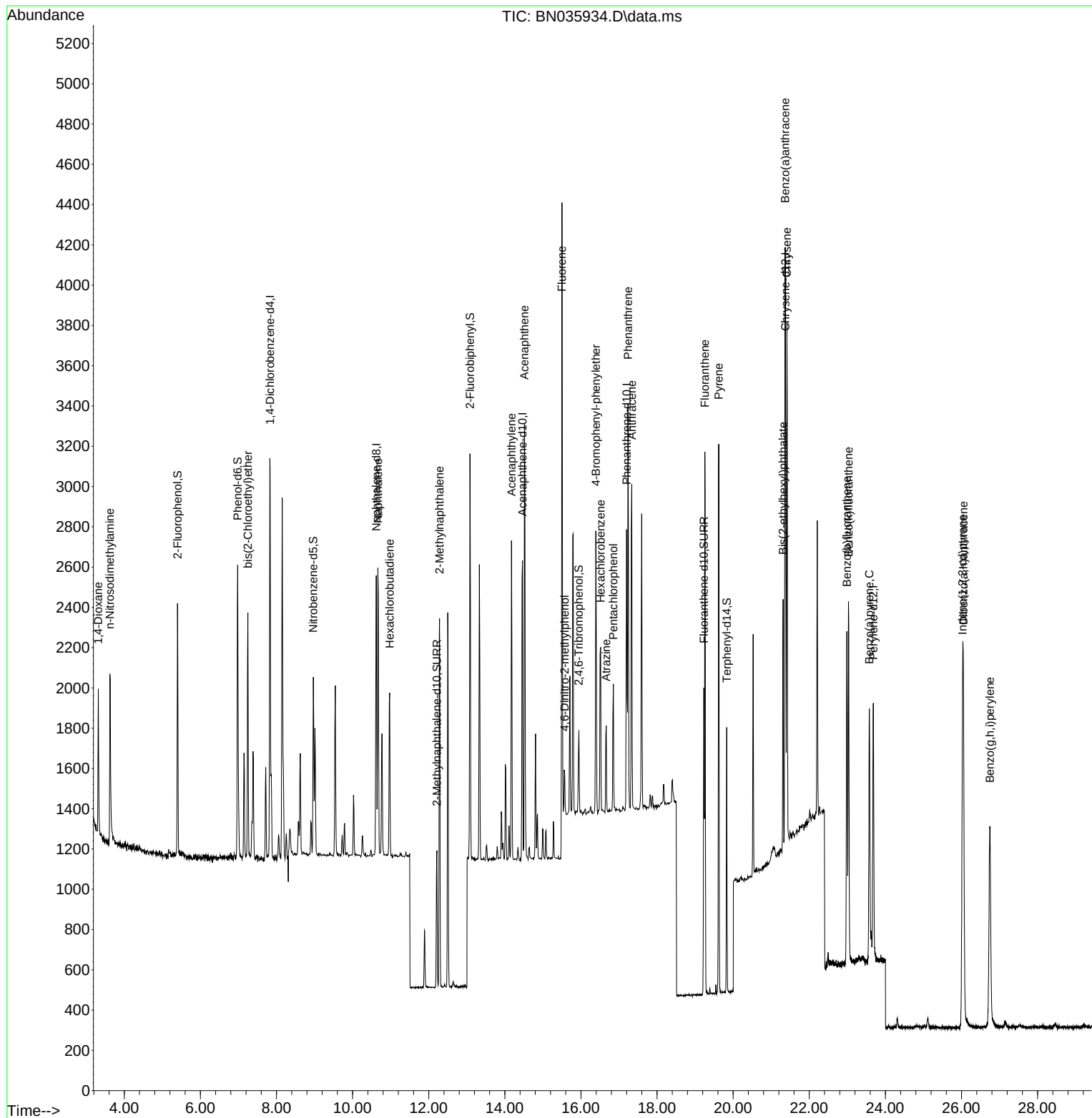
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.832	152	930	0.400	ng	0.00
7) Naphthalene-d8	10.622	136	1684	0.400	ng	0.00
13) Acenaphthene-d10	14.463	164	890	0.400	ng	0.00
19) Phenanthrene-d10	17.199	188	1752	0.400	ng	-0.01
29) Chrysene-d12	21.376	240	1461	0.400	ng	0.00
35) Perylene-d12	23.683	264	1685	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.398	112	857	0.376	ng	-0.01
5) Phenol-d6	6.979	99	1035	0.365	ng	0.00
8) Nitrobenzene-d5	8.967	82	605	0.454	ng	-0.01
11) 2-Methylnaphthalene-d10	12.213	152	891	0.395	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	231	0.541	ng	-0.01
15) 2-Fluorobiphenyl	13.084	172	1570	0.402	ng	0.00
27) Fluoranthene-d10	19.230	212	1720	0.395	ng	0.00
31) Terphenyl-d14	19.829	244	1212	0.416	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.318	88	374	0.405	ng	# 91
3) n-Nitrosodimethylamine	3.621	42	803	0.498	ng	# 81
6) bis(2-Chloroethyl)ether	7.247	93	782	0.362	ng	97
9) Naphthalene	10.664	128	1883	0.398	ng	96
10) Hexachlorobutadiene	10.974	225	664	0.433	ng	# 99
12) 2-Methylnaphthalene	12.284	142	1189	0.407	ng	96
16) Acenaphthylene	14.174	152	1621	0.387	ng	99
17) Acenaphthene	14.516	154	1106	0.402	ng	96
18) Fluorene	15.500	166	1135	0.375	ng	95
20) 4,6-Dinitro-2-methylph...	15.573	198	177	0.582	ng	# 74
21) 4-Bromophenyl-phenylether	16.392	248	524	0.436	ng	# 90
22) Hexachlorobenzene	16.516	284	664	0.405	ng	94
23) Atrazine	16.665	200	365	0.453	ng	# 90
24) Pentachlorophenol	16.851	266	316	0.545	ng	96
25) Phenanthrene	17.236	178	1982	0.388	ng	99
26) Anthracene	17.335	178	1842	0.396	ng	98
28) Fluoranthene	19.258	202	2340	0.393	ng	# 98
30) Pyrene	19.620	202	2396	0.404	ng	100
32) Benzo(a)anthracene	21.367	228	2141	0.416	ng	99
33) Chrysene	21.412	228	2143	0.398	ng	95
34) Bis(2-ethylhexyl)phtha...	21.313	149	1099	0.524	ng	# 95
36) Indeno(1,2,3-cd)pyrene	26.028	276	2564	0.386	ng	# 95
37) Benzo(b)fluoranthene	22.988	252	2233	0.386	ng	96
38) Benzo(k)fluoranthene	23.032	252	2207	0.385	ng	94
39) Benzo(a)pyrene	23.578	252	1928	0.385	ng	95
40) Dibenzo(a,h)anthracene	26.049	278	2080	0.393	ng	97
41) Benzo(g,h,i)perylene	26.745	276	2191	0.371	ng	# 94

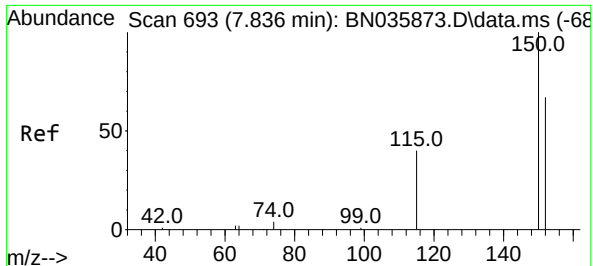
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN011525\
Data File : BN035934.D
Acq On : 15 Jan 2025 17:00
Operator : RC/JU
Sample : PB166053BSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB166053BSD

Quant Time: Jan 15 17:25:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN010225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jan 02 15:39:17 2025
Response via : Initial Calibration

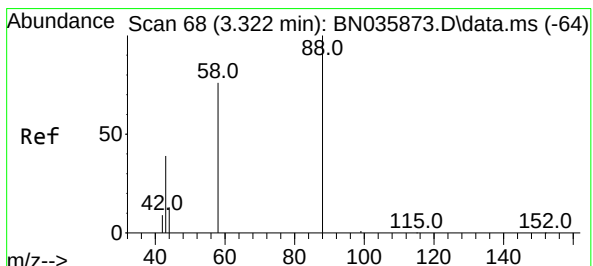
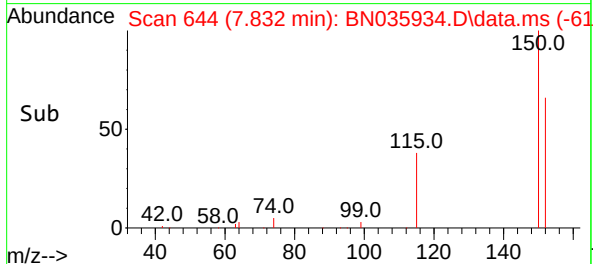
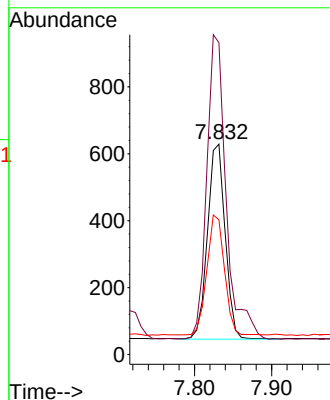
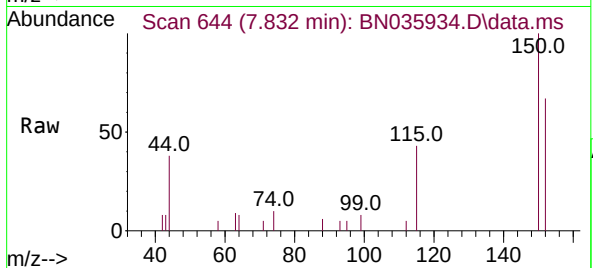




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.832 min Scan# 64
Delta R.T. -0.004 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

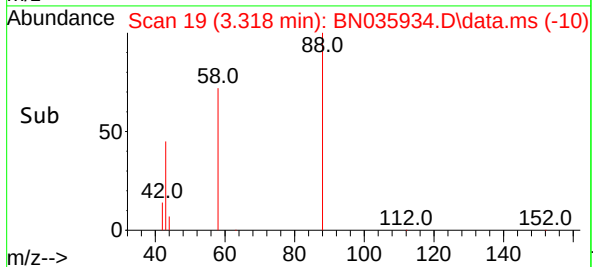
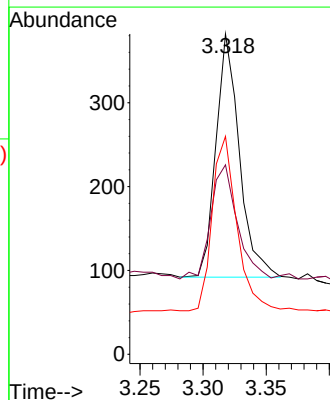
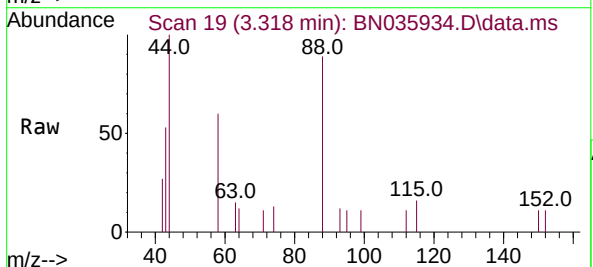
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

Tgt Ion:152 Resp: 930
Ion Ratio Lower Upper
152 100
150 148.2 117.8 176.6
115 64.1 51.0 76.4

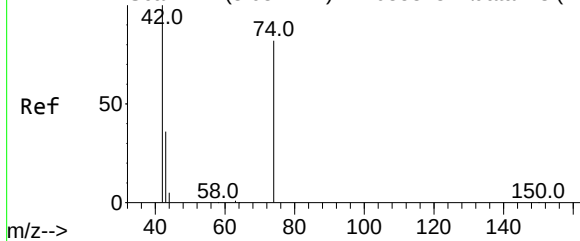


#2
1,4-Dioxane
Concen: 0.405 ng
RT: 3.318 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion: 88 Resp: 374
Ion Ratio Lower Upper
88 100
43 52.9 32.7 49.1#
58 75.1 63.0 94.4



Abundance Scan 111 (3.632 min): BN035873.D\data.ms (-10



#3

n-Nitrosodimethylamine

Concen: 0.498 ng

RT: 3.621 min Scan# 61

Delta R.T. -0.011 min

Lab File: BN035934.D

Acq: 15 Jan 2025 17:00

Instrument :

BNA_N

ClientSampleId :

PB166053BSD

Tgt Ion: 42 Resp: 803

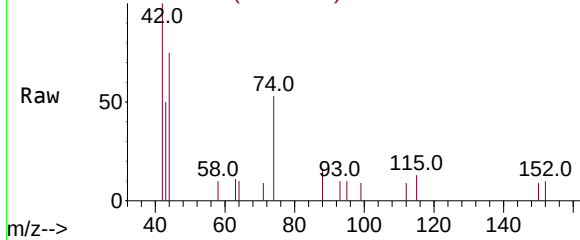
Ion Ratio Lower Upper

42 100

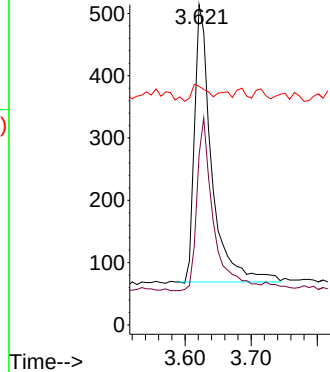
74 60.3 62.2 93.2#

44 5.2 7.1 10.7#

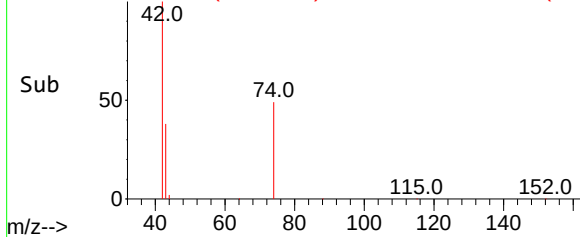
Abundance Scan 61 (3.621 min): BN035934.D\data.ms



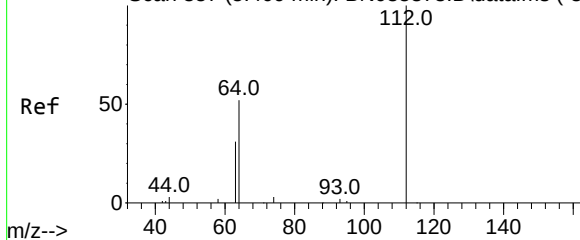
Abundance



Abundance Scan 61 (3.621 min): BN035934.D\data.ms (-42)



Abundance Scan 357 (5.409 min): BN035873.D\data.ms (-34



#4

2-Fluorophenol

Concen: 0.376 ng

RT: 5.398 min Scan# 307

Delta R.T. -0.011 min

Lab File: BN035934.D

Acq: 15 Jan 2025 17:00

Tgt Ion: 112 Resp: 857

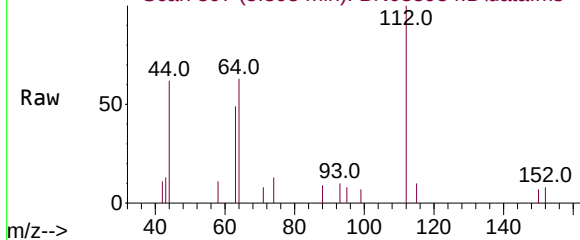
Ion Ratio Lower Upper

112 100

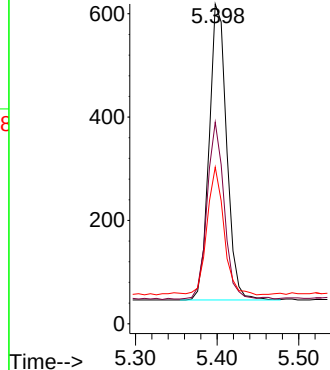
64 58.8 48.2 72.2

63 40.7 30.0 45.0

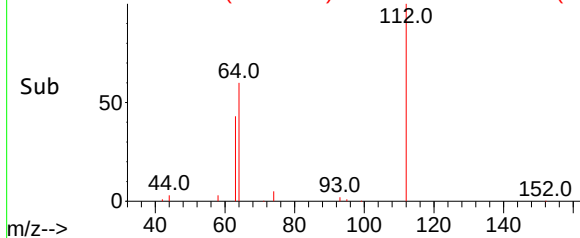
Abundance Scan 307 (5.398 min): BN035934.D\data.ms

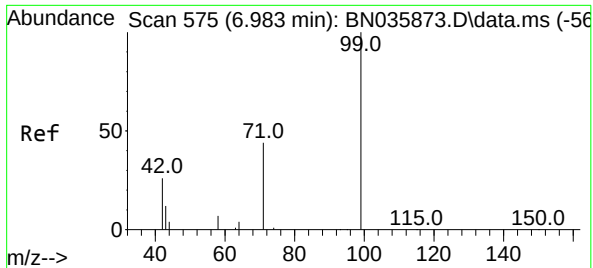


Abundance



Abundance Scan 307 (5.398 min): BN035934.D\data.ms (-28

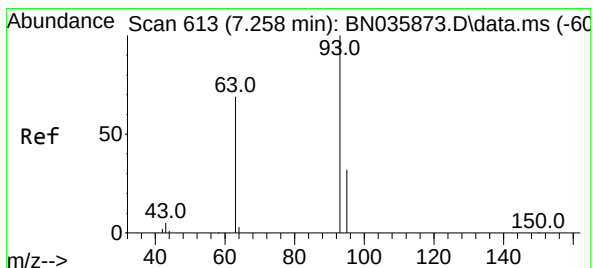
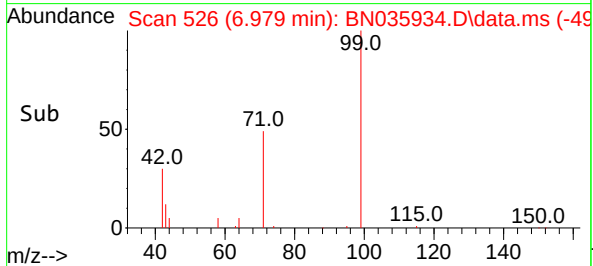
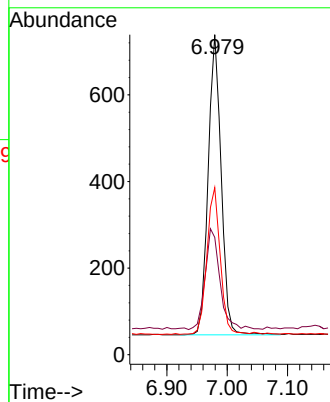
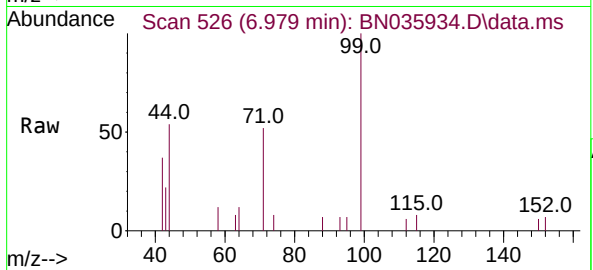




#5
Phenol-d6
Concen: 0.365 ng
RT: 6.979 min Scan# 51
Delta R.T. -0.004 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

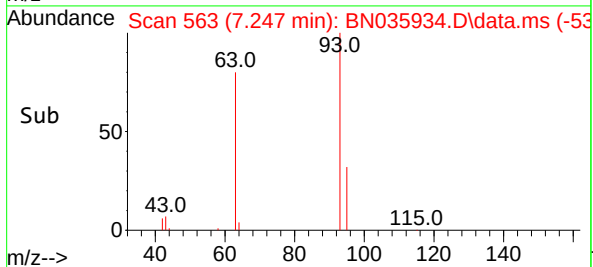
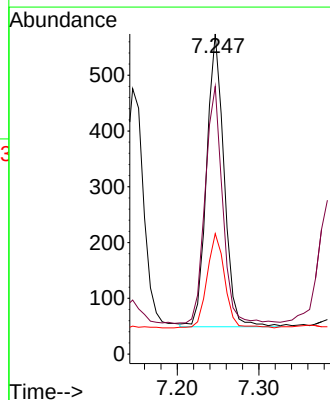
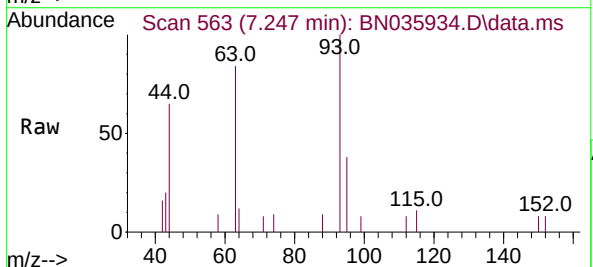
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

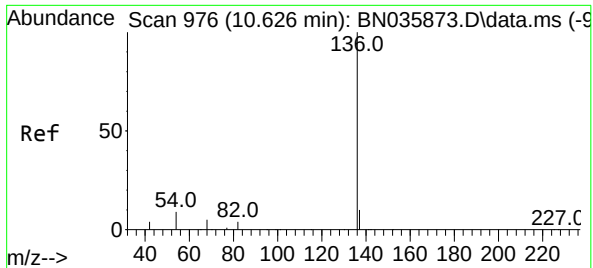
Tgt Ion: 99 Resp: 1035
Ion Ratio Lower Upper
99 100
42 38.0 23.5 35.3#
71 50.3 35.5 53.3



#6
bis(2-Chloroethyl)ether
Concen: 0.362 ng
RT: 7.247 min Scan# 563
Delta R.T. -0.011 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion: 93 Resp: 782
Ion Ratio Lower Upper
93 100
63 81.1 62.0 93.0
95 32.5 25.5 38.3

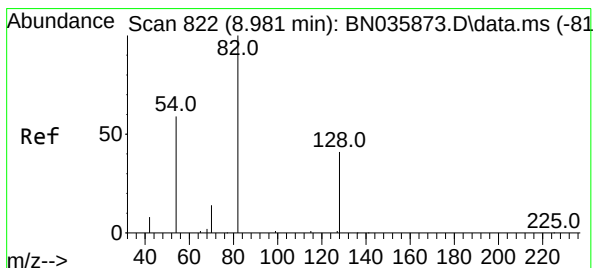
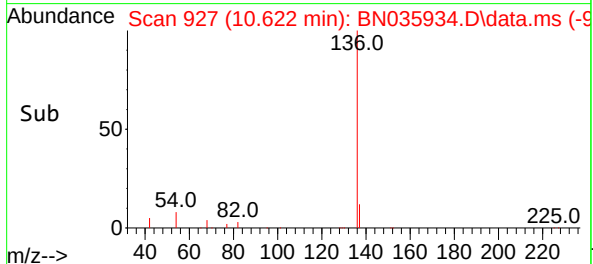
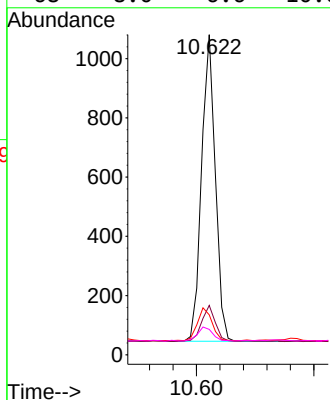
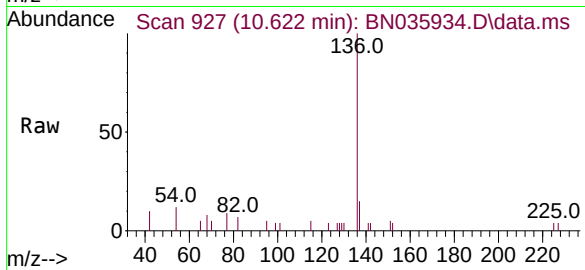




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.622 min Scan# 91
Delta R.T. -0.004 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

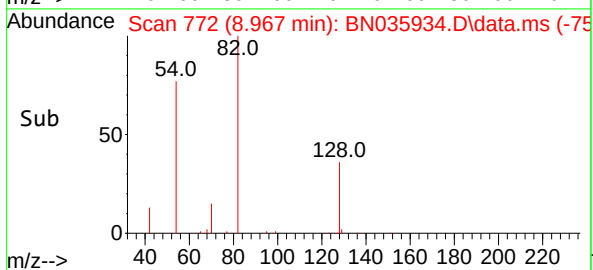
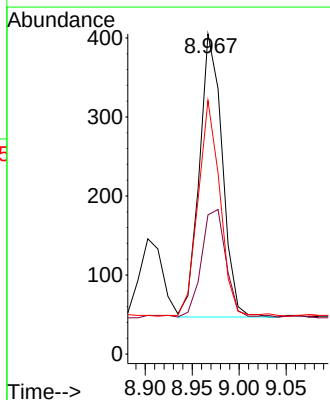
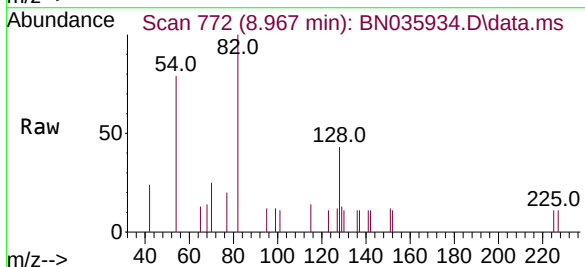
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

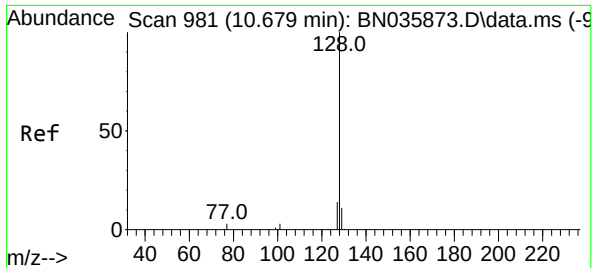
Tgt Ion:	136	Resp:	1684
Ion	Ratio	Lower	Upper
136	100		
137	15.4	10.6	15.8
54	12.5	9.8	14.6
68	8.0	6.6	10.0



#8
Nitrobenzene-d5
Concen: 0.454 ng
RT: 8.967 min Scan# 772
Delta R.T. -0.015 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion:	82	Resp:	605
Ion	Ratio	Lower	Upper
82	100		
128	43.5	36.9	55.3
54	79.3	50.4	75.6

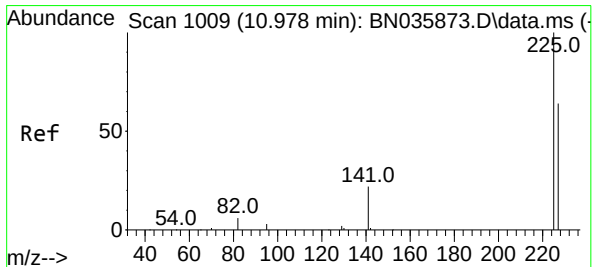
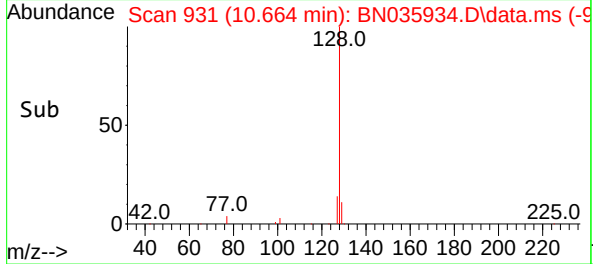
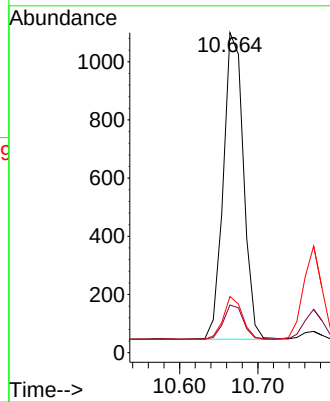
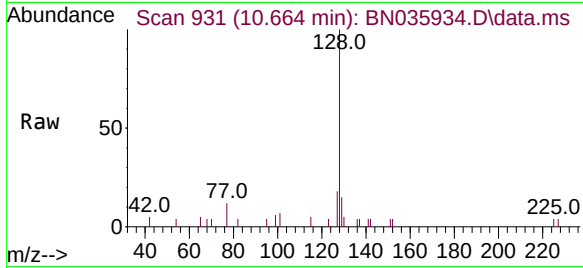




#9
Naphthalene
Concen: 0.398 ng
RT: 10.664 min Scan# 91
Delta R.T. -0.015 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

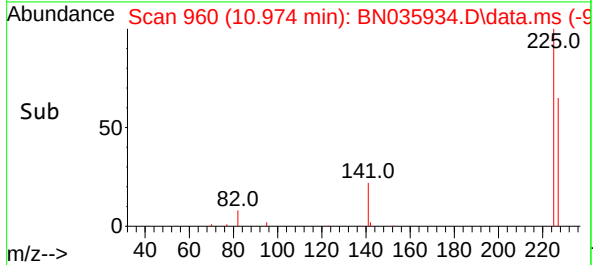
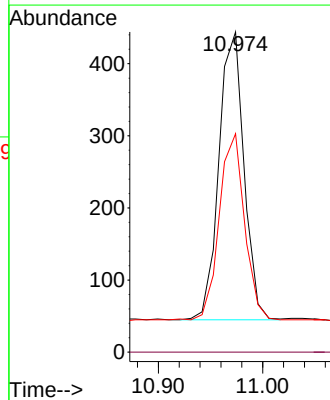
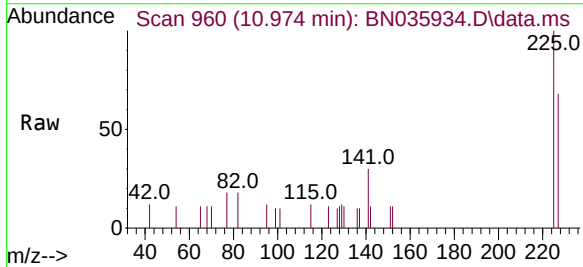
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

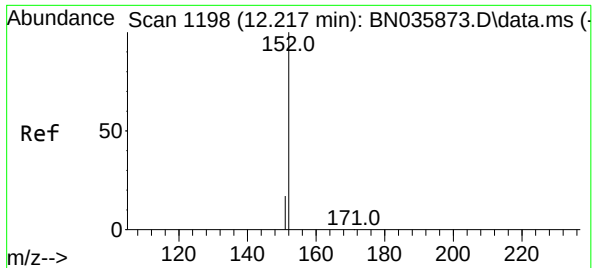
Tgt Ion:	128	Resp:	1883
Ion	Ratio	Lower	Upper
128	100		
129	14.9	10.6	16.0
127	17.5	12.8	19.2



#10
Hexachlorobutadiene
Concen: 0.433 ng
RT: 10.974 min Scan# 960
Delta R.T. -0.004 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion:	225	Resp:	664
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.1	51.5	77.3

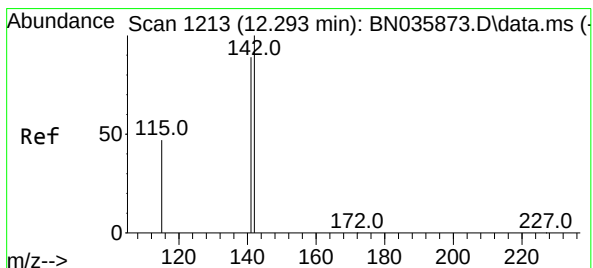
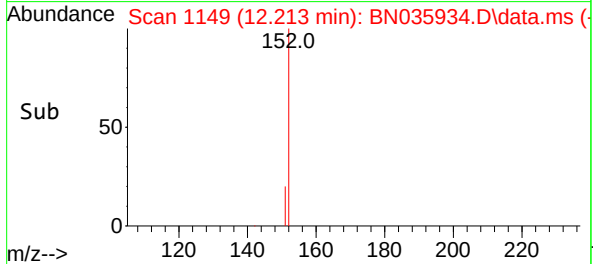
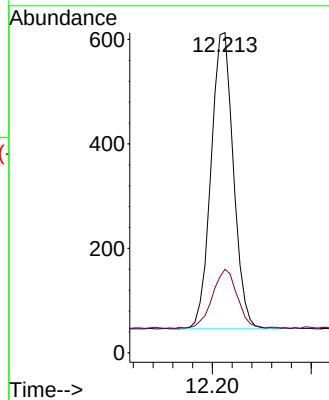
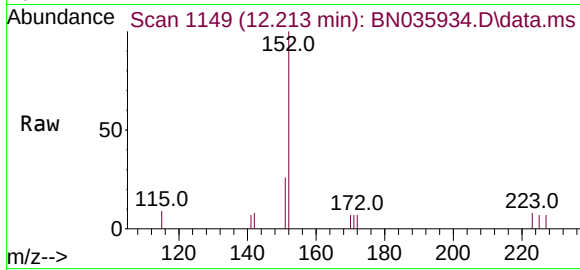




#11
2-Methylnaphthalene-d10
Concen: 0.395 ng
RT: 12.213 min Scan# 1198
Delta R.T. -0.004 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

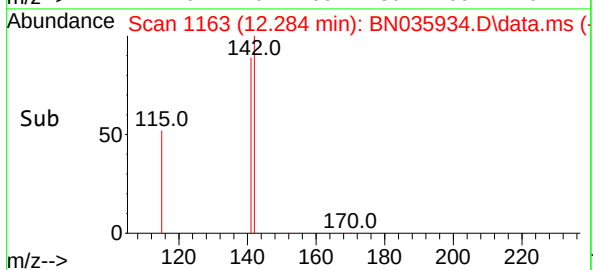
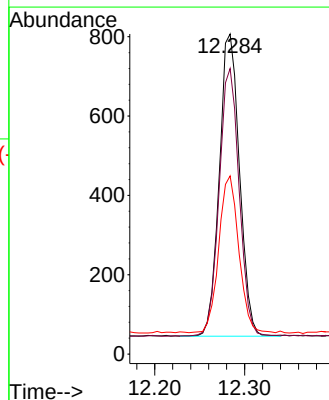
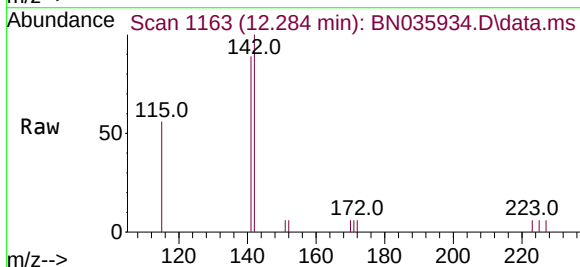
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

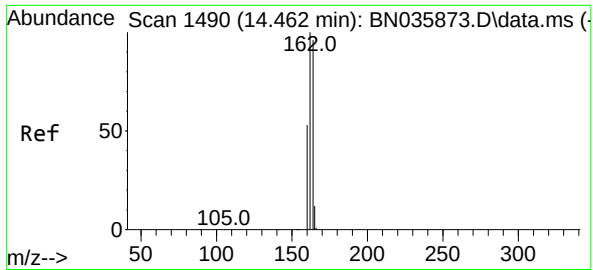
Tgt Ion:152 Resp: 891
Ion Ratio Lower Upper
152 100
151 22.4 17.0 25.6



#12
2-Methylnaphthalene
Concen: 0.407 ng
RT: 12.284 min Scan# 1163
Delta R.T. -0.009 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion:142 Resp: 1189
Ion Ratio Lower Upper
142 100
141 89.2 71.9 107.9
115 55.6 39.6 59.4

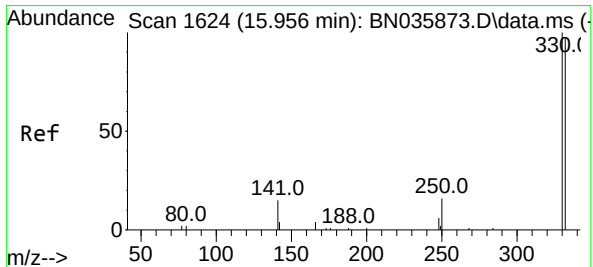
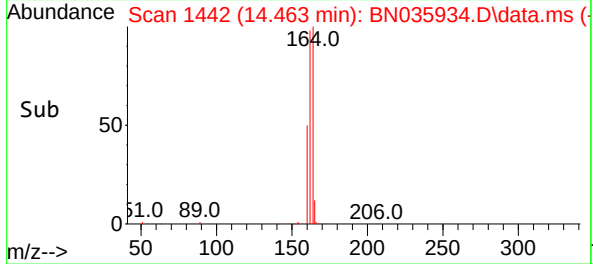
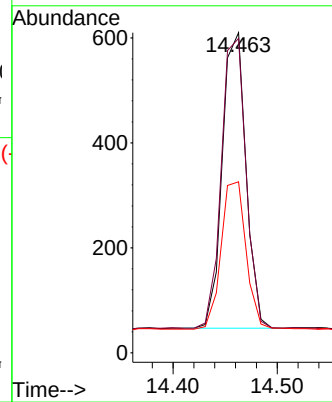
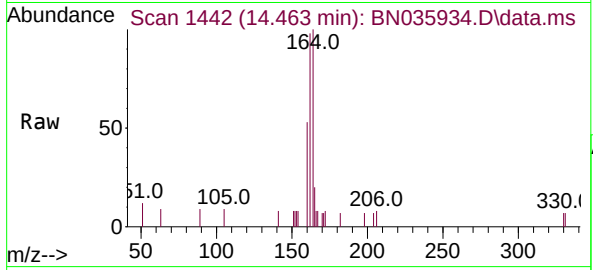




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.463 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

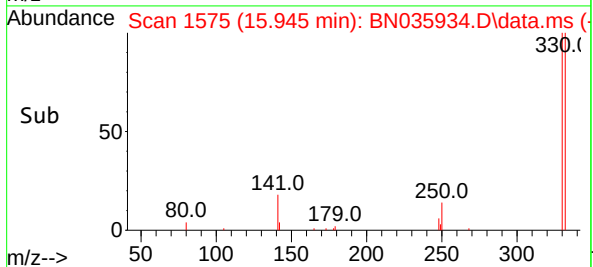
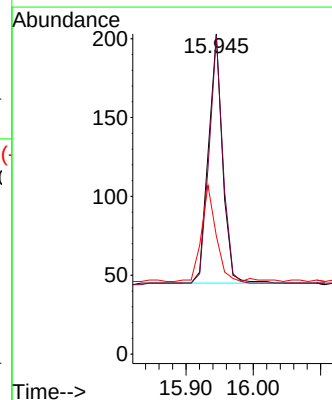
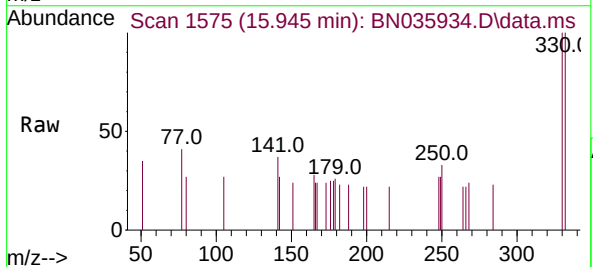
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

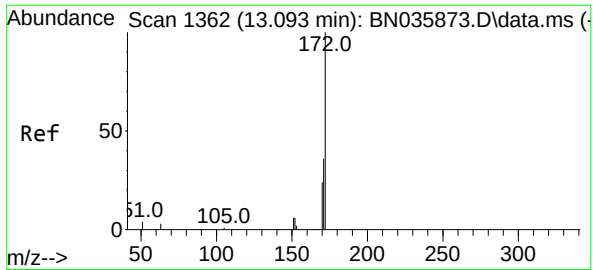
Tgt Ion:164 Resp: 890
Ion Ratio Lower Upper
164 100
162 98.2 83.1 124.7
160 53.4 46.0 69.0



#14
2,4,6-Tribromophenol
Concen: 0.541 ng
RT: 15.945 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion:330 Resp: 231
Ion Ratio Lower Upper
330 100
332 97.0 77.2 115.8
141 39.8 31.6 47.4





#15

2-Fluorobiphenyl

Concen: 0.402 ng

RT: 13.084 min Scan# 1415

Delta R.T. -0.010 min

Lab File: BN035934.D

Acq: 15 Jan 2025 17:00

Instrument :

BNA_N

ClientSampleId :

PB166053BSD

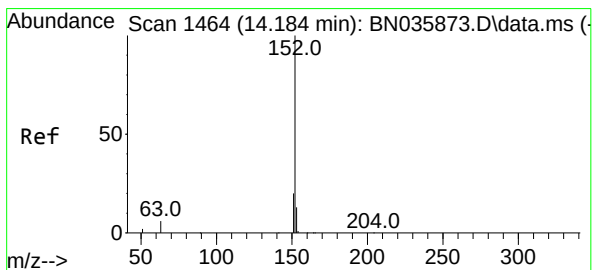
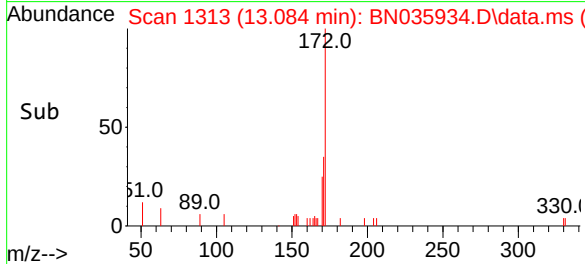
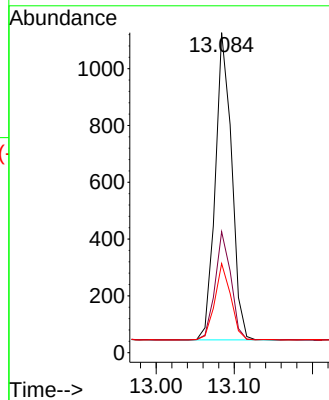
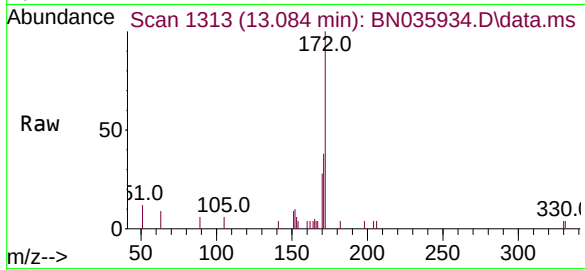
Tgt Ion:172 Resp: 1570

Ion Ratio Lower Upper

172 100

171 37.8 30.5 45.7

170 27.9 20.8 31.2



#16

Acenaphthylene

Concen: 0.387 ng

RT: 14.174 min Scan# 1415

Delta R.T. -0.010 min

Lab File: BN035934.D

Acq: 15 Jan 2025 17:00

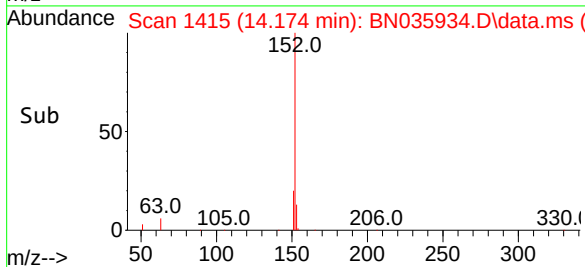
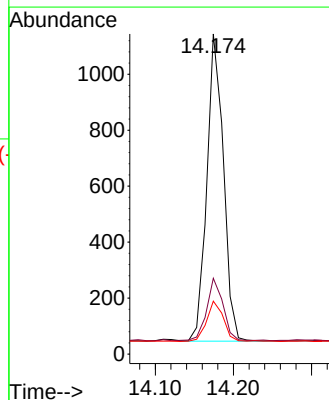
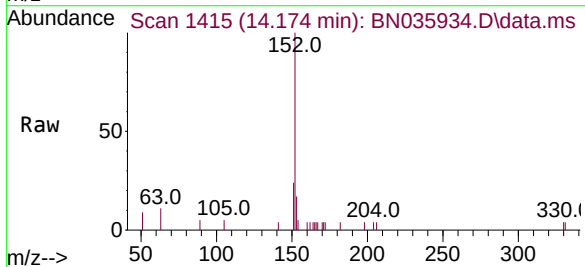
Tgt Ion:152 Resp: 1621

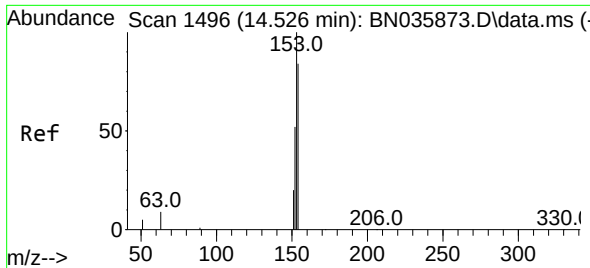
Ion Ratio Lower Upper

152 100

151 20.0 16.3 24.5

153 13.4 10.6 15.8

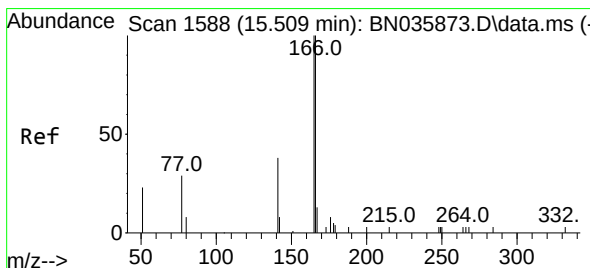
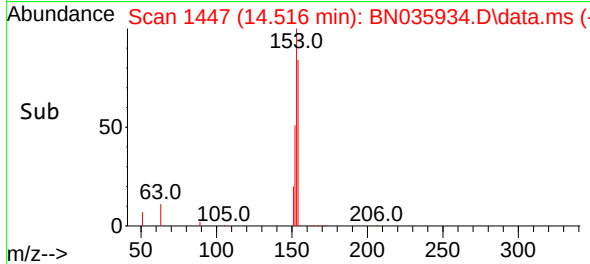
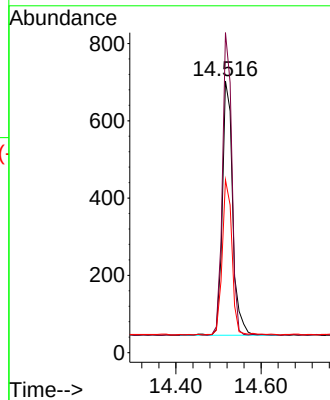
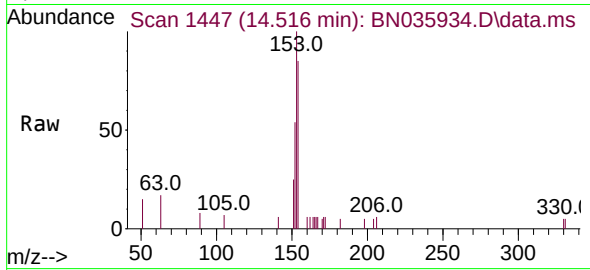




#17
Acenaphthene
Concen: 0.402 ng
RT: 14.516 min Scan# 1496
Delta R.T. -0.010 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

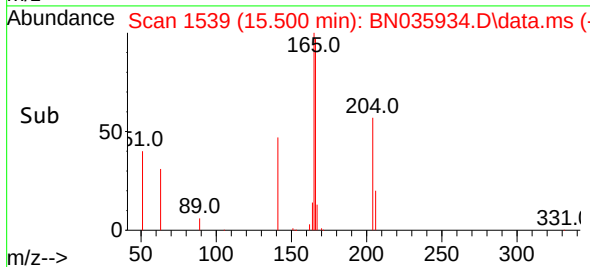
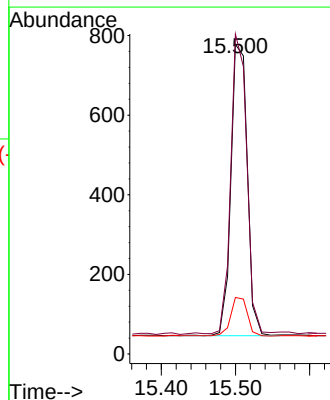
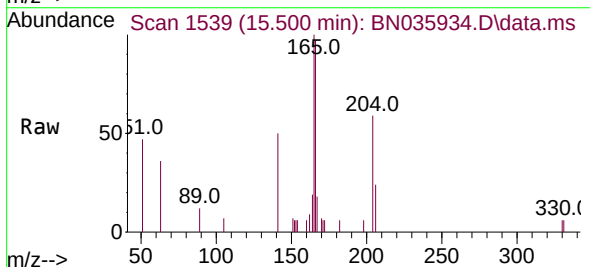
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

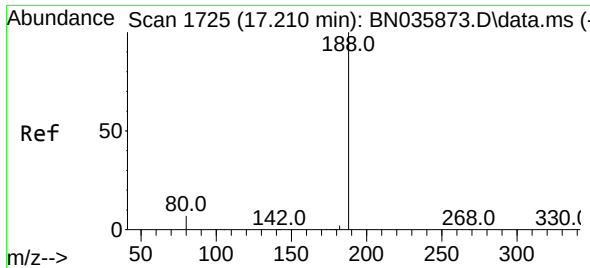
Tgt Ion	Ratio	Lower	Upper
154	100		
153	108.3	90.5	135.7
152	57.5	48.6	73.0



#18
Fluorene
Concen: 0.375 ng
RT: 15.500 min Scan# 1539
Delta R.T. -0.010 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion	Ratio	Lower	Upper
166	100		
165	106.5	80.6	120.8
167	13.7	11.4	17.0

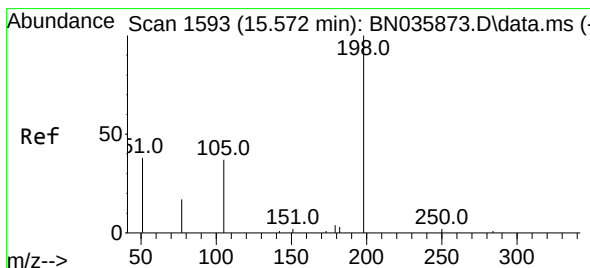
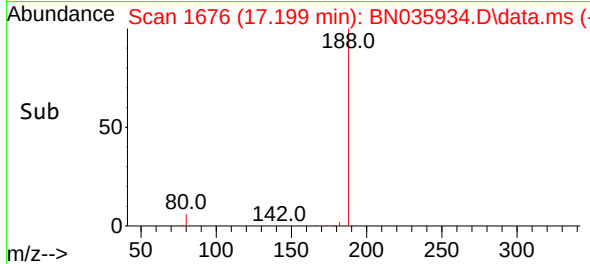
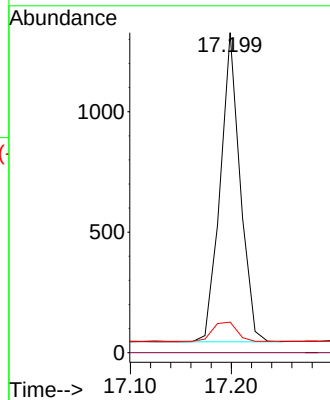
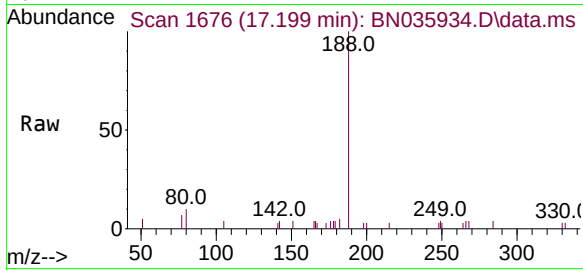




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.199 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

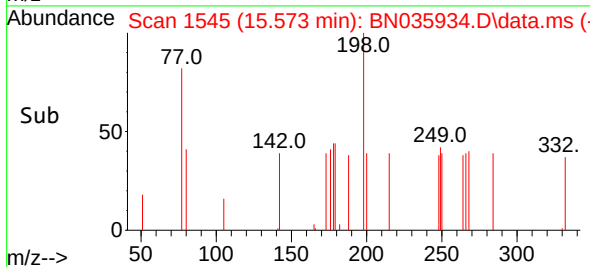
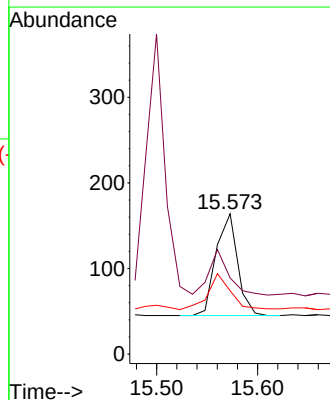
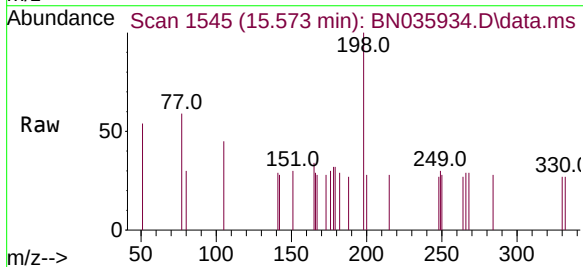
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

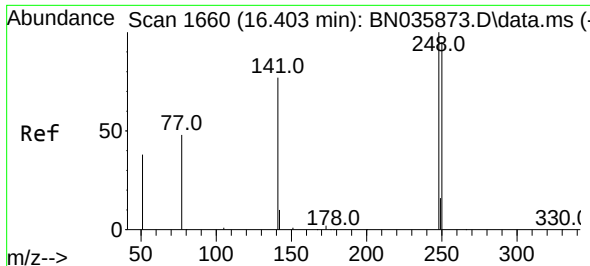
Tgt Ion	188	Resp	1752
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.6	7.3	10.9



#20
4,6-Dinitro-2-methylphenol
Concen: 0.582 ng
RT: 15.573 min Scan# 1545
Delta R.T. 0.001 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion	198	Resp	177
Ion Ratio	Lower	Upper	
198	100		
51	54.3	64.3	96.5#
105	45.1	50.0	75.0#

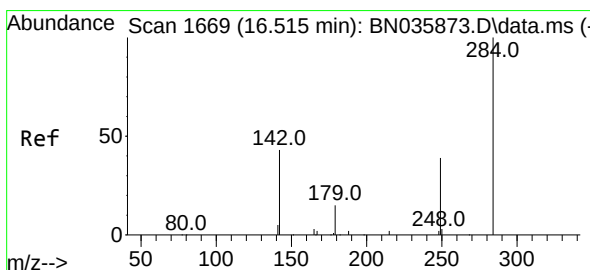
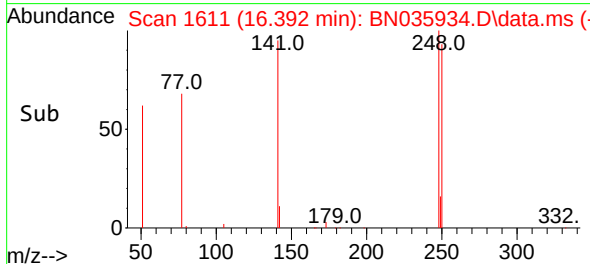
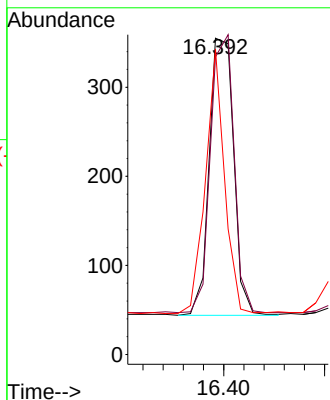
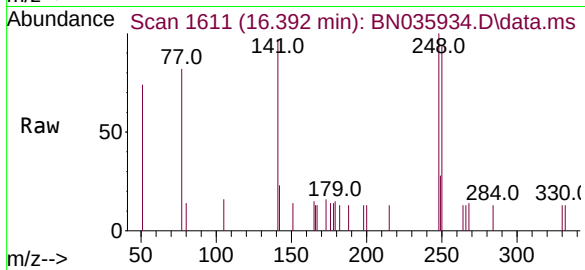




#21
4-Bromophenyl-phenylether
Concen: 0.436 ng
RT: 16.392 min Scan# 1611
Delta R.T. -0.011 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

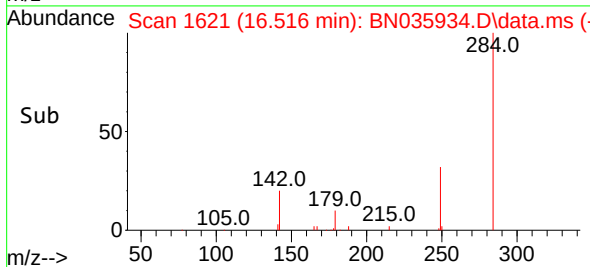
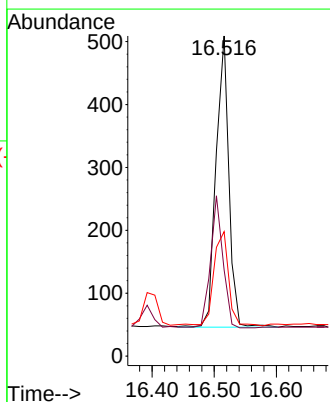
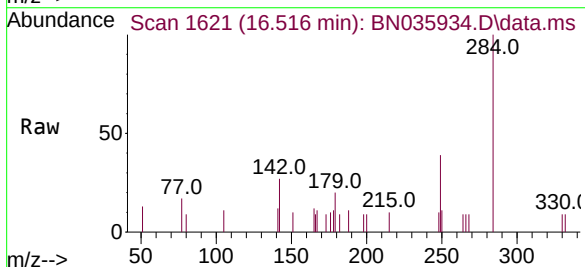
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

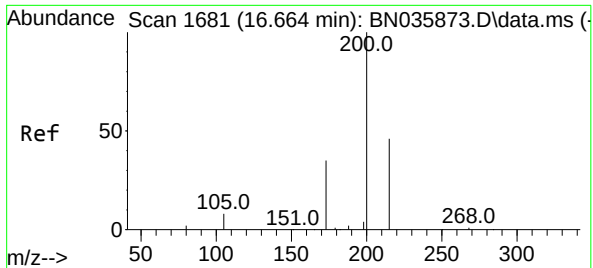
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.1	76.8	115.2
141	96.6	63.6	95.4



#22
Hexachlorobenzene
Concen: 0.405 ng
RT: 16.516 min Scan# 1621
Delta R.T. 0.001 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion	Ratio	Lower	Upper
284	100		
142	43.8	31.4	47.0
249	37.7	27.8	41.8

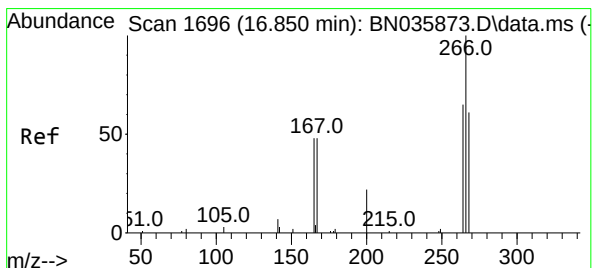
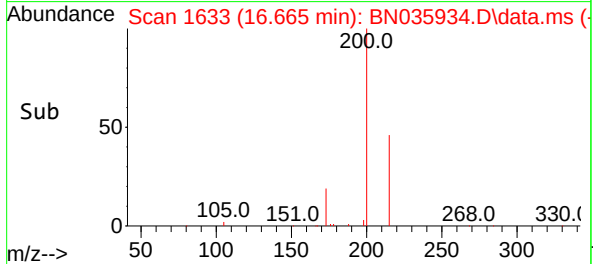
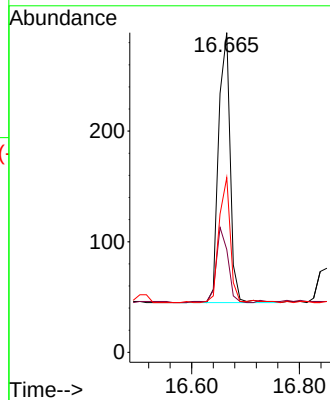
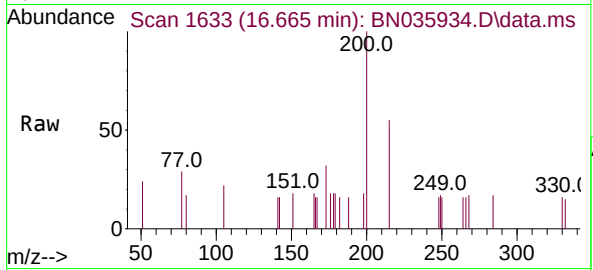




#23
Atrazine
Concen: 0.453 ng
RT: 16.665 min Scan# 1633
Delta R.T. 0.001 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

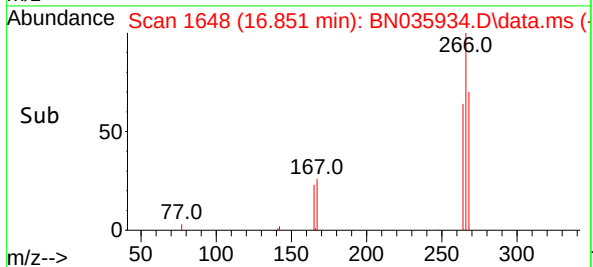
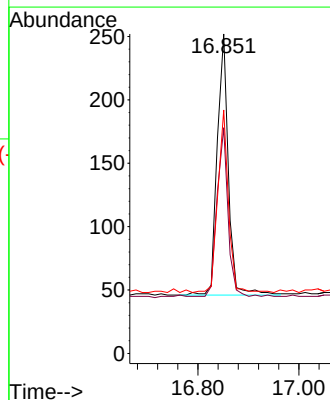
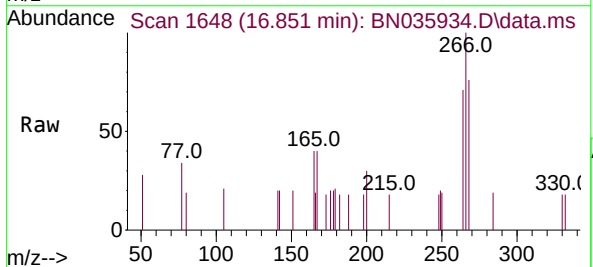
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

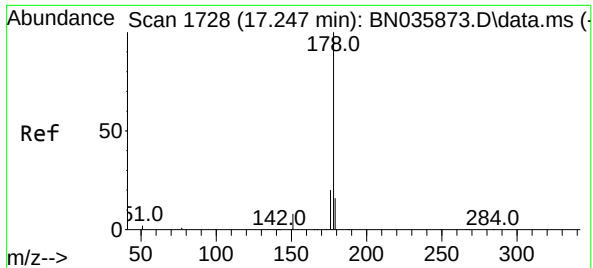
Tgt Ion:200 Resp: 365
Ion Ratio Lower Upper
200 100
173 32.2 35.4 53.0#
215 54.7 42.4 63.6



#24
Pentachlorophenol
Concen: 0.545 ng
RT: 16.851 min Scan# 1648
Delta R.T. 0.001 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion:266 Resp: 316
Ion Ratio Lower Upper
266 100
264 64.2 49.9 74.9
268 66.5 50.2 75.2

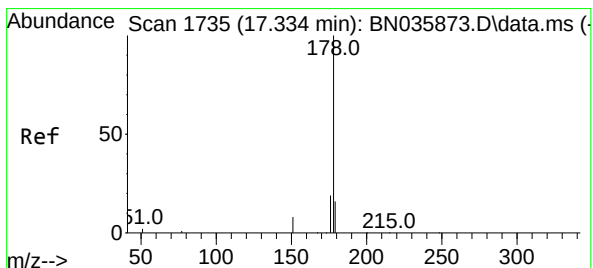
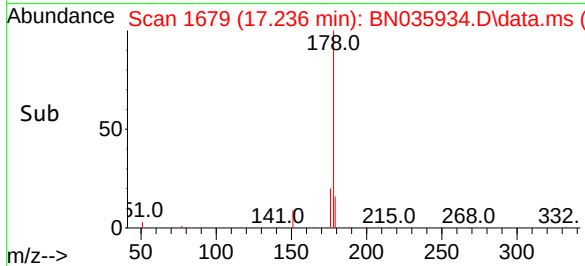
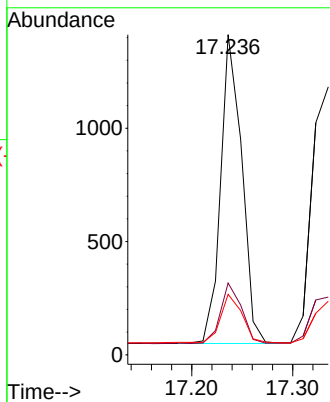
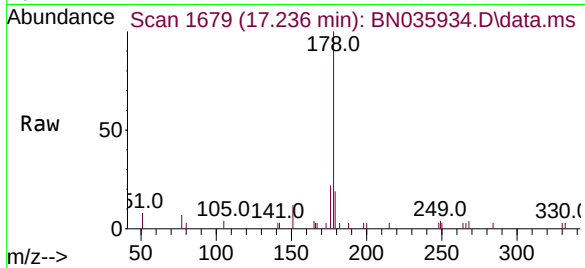




#25
Phenanthrene
Concen: 0.388 ng
RT: 17.236 min Scan# 1679
Delta R.T. -0.011 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

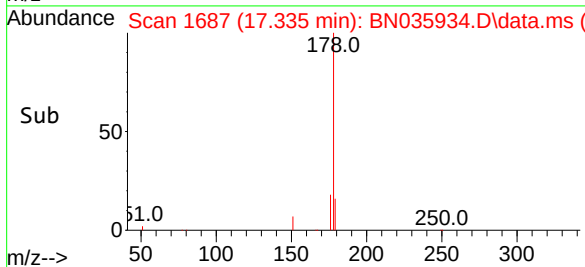
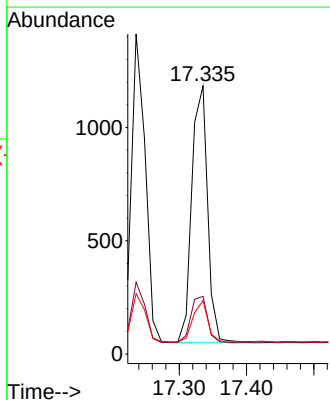
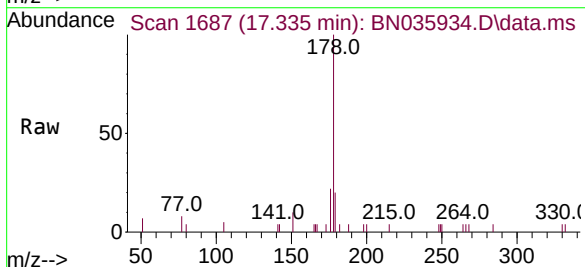
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

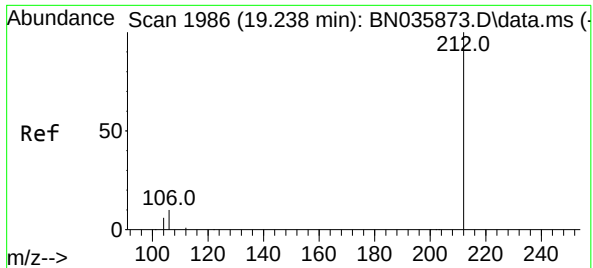
Tgt Ion:178 Resp: 1982
Ion Ratio Lower Upper
178 100
176 19.4 15.9 23.9
179 16.5 12.9 19.3



#26
Anthracene
Concen: 0.396 ng
RT: 17.335 min Scan# 1687
Delta R.T. 0.001 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion:178 Resp: 1842
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.6
179 15.1 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.395 ng

RT: 19.230 min Scan# 1942

Delta R.T. -0.008 min

Lab File: BN035934.D

Acq: 15 Jan 2025 17:00

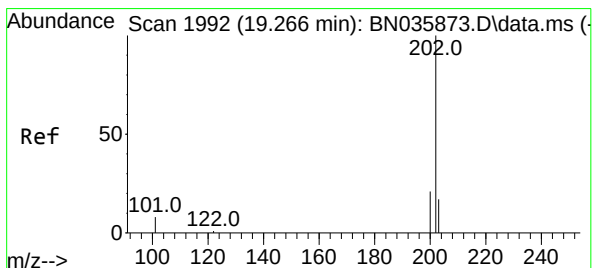
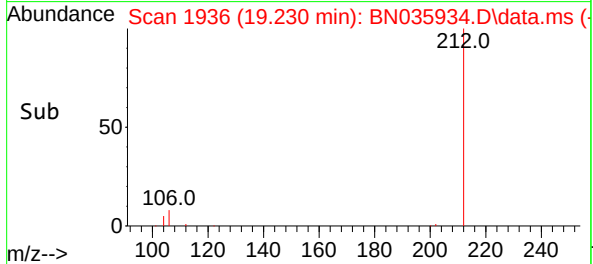
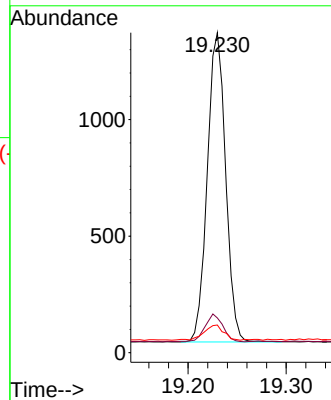
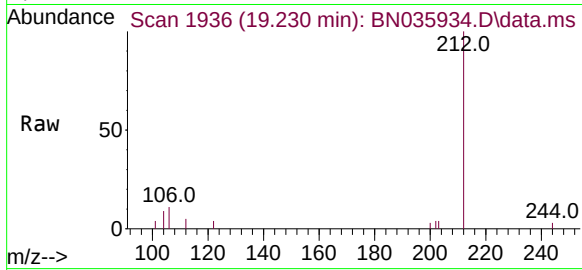
Instrument :

BNA_N

ClientSampleId :

PB166053BSD

Tgt Ion:	212	Resp:	1720
Ion	Ratio	Lower	Upper
212	100		
106	8.8	9.0	13.6#
104	5.2	5.4	8.2#



#28

Fluoranthene

Concen: 0.393 ng

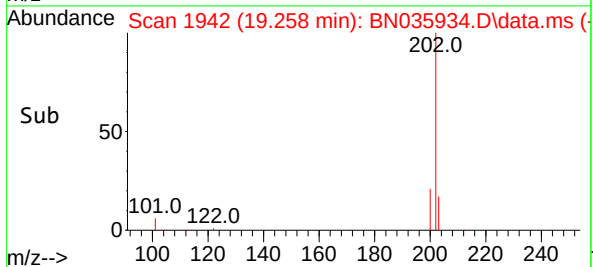
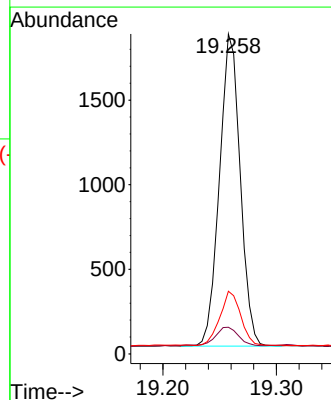
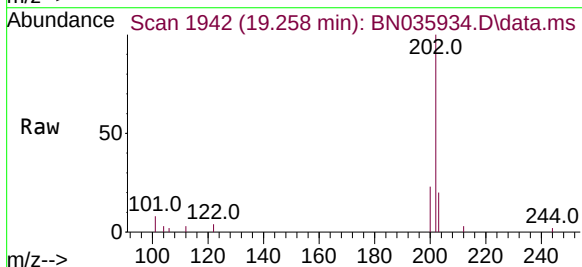
RT: 19.258 min Scan# 1942

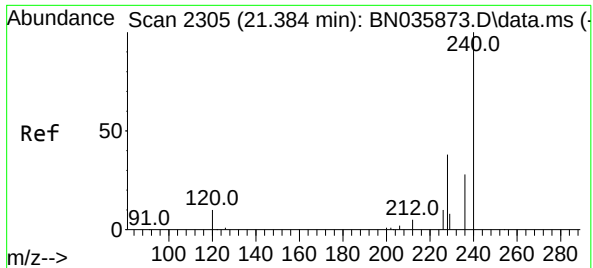
Delta R.T. -0.008 min

Lab File: BN035934.D

Acq: 15 Jan 2025 17:00

Tgt Ion:	202	Resp:	2340
Ion	Ratio	Lower	Upper
202	100		
101	6.7	7.2	10.8#
203	17.4	13.9	20.9

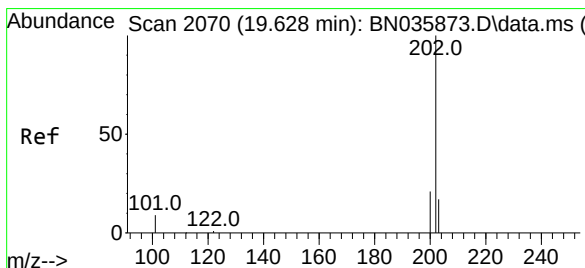
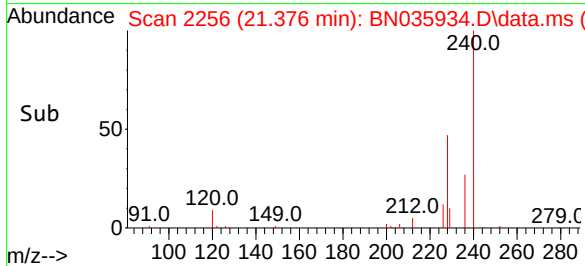
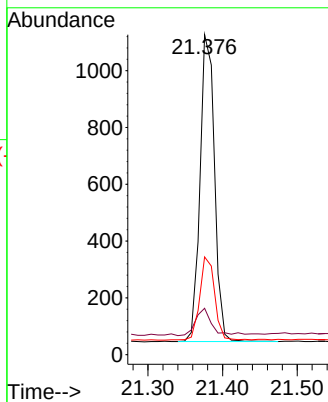
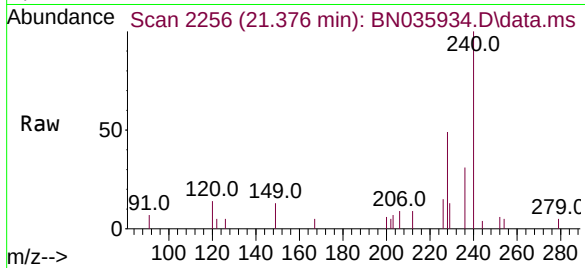




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.376 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

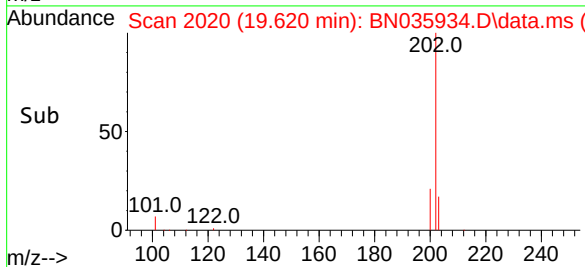
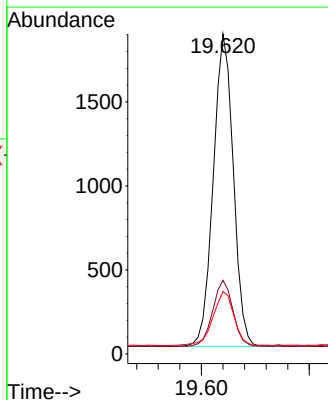
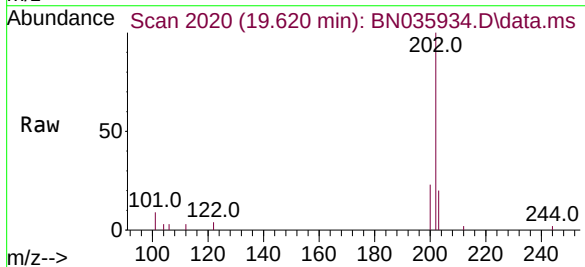
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

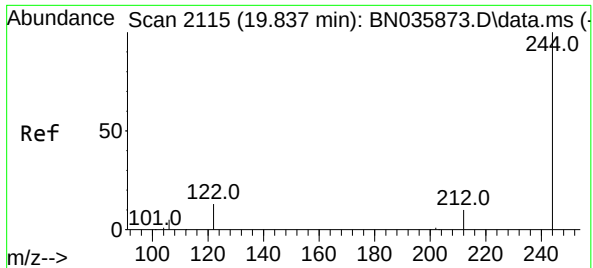
Tgt Ion:	240	Resp:	1461
Ion Ratio	Lower	Upper	
240	100		
120	14.5	11.1	16.7
236	30.5	24.6	36.8



#30
Pyrene
Concen: 0.404 ng
RT: 19.620 min Scan# 2020
Delta R.T. -0.008 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion:	202	Resp:	2396
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.0	25.6
203	18.0	14.6	22.0

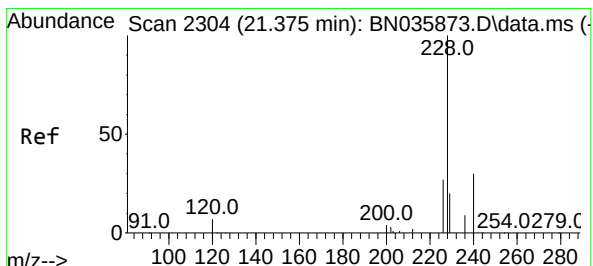
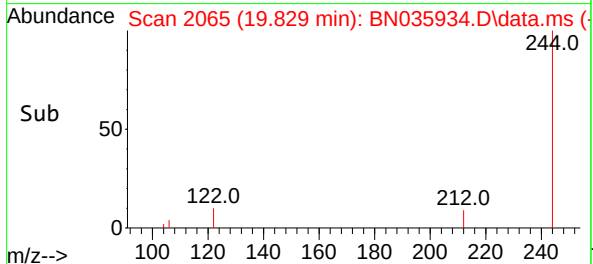
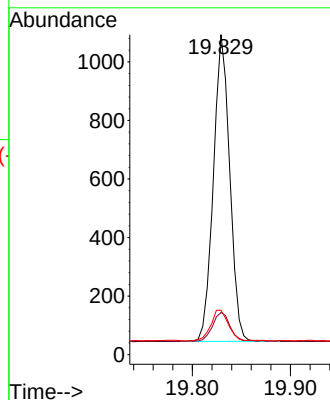
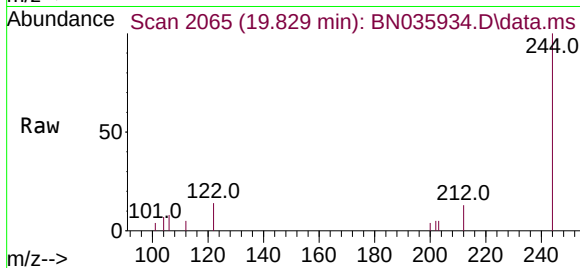




#31
Terphenyl-d14
Concen: 0.416 ng
RT: 19.829 min Scan# 2065
Delta R.T. -0.008 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

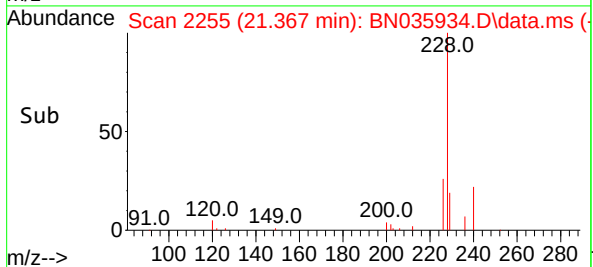
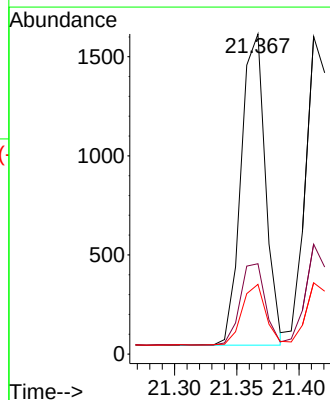
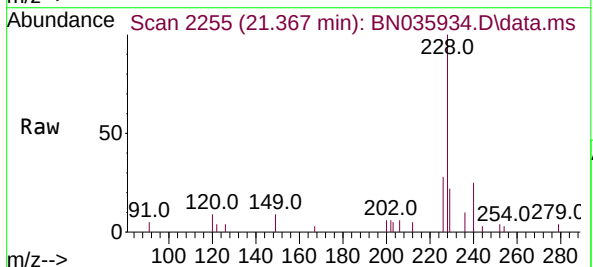
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

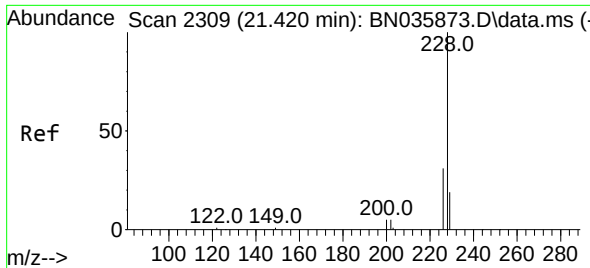
Tgt Ion	Ratio	Lower	Upper
244	100		
212	13.2	10.1	15.1
122	13.9	12.2	18.4



#32
Benzo(a)anthracene
Concen: 0.416 ng
RT: 21.367 min Scan# 2255
Delta R.T. -0.008 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.7	34.1
229	21.8	17.1	25.7

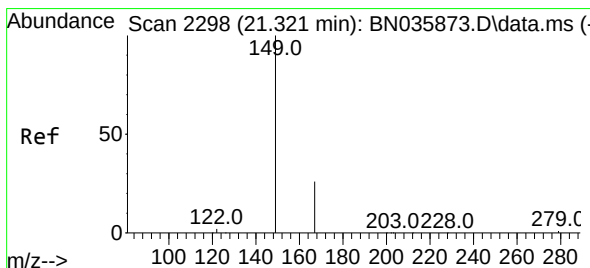
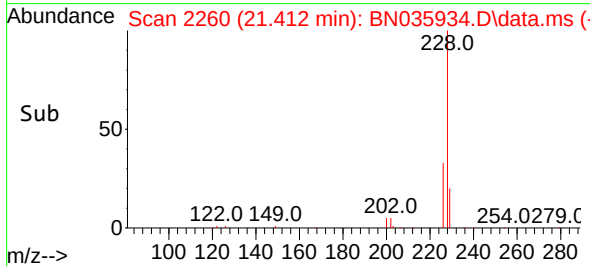
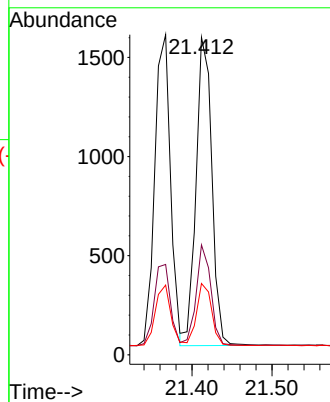
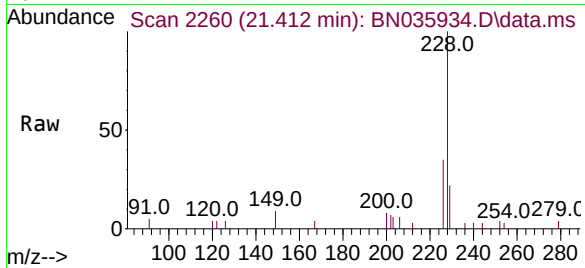




#33
Chrysene
Concen: 0.398 ng
RT: 21.412 min Scan# 2143
Delta R.T. -0.008 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

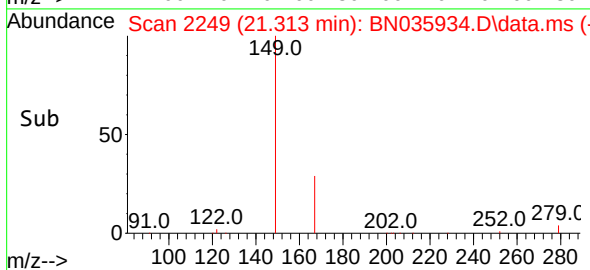
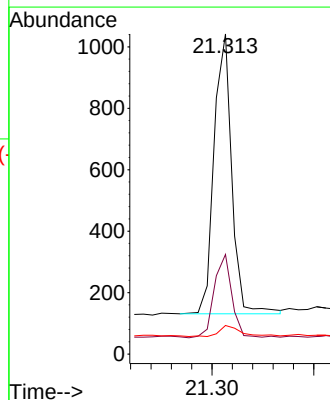
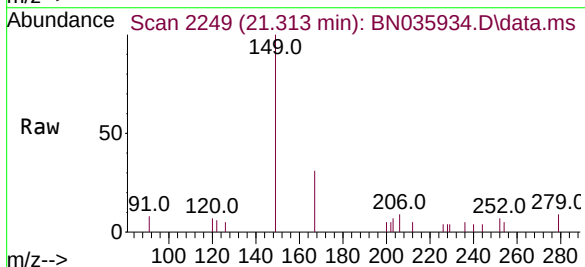
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

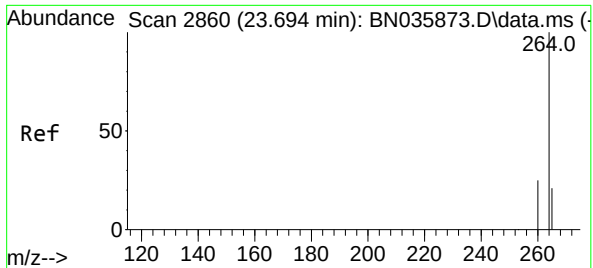
Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.6	25.2	37.8
229	22.5	16.0	24.0



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.524 ng
RT: 21.313 min Scan# 2249
Delta R.T. -0.008 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion	Ratio	Lower	Upper
149	100		
167	29.6	21.4	32.0
279	4.9	3.0	4.6#

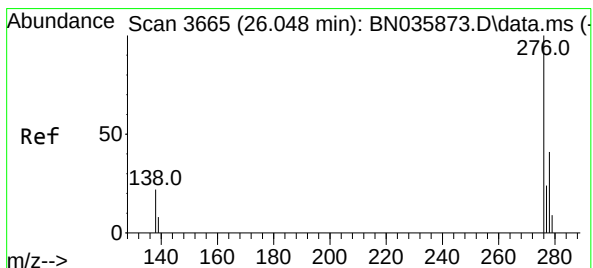
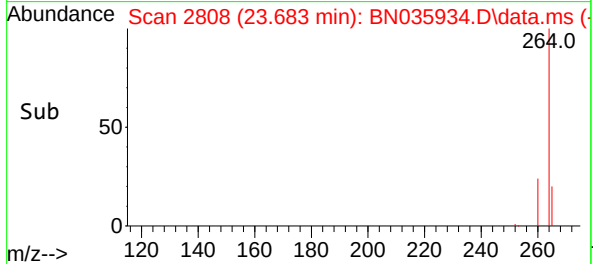
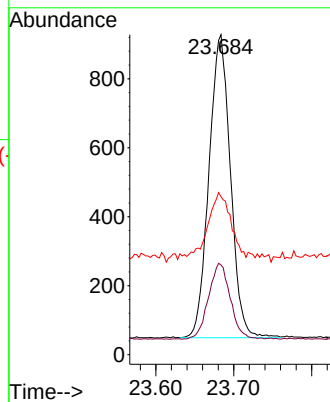
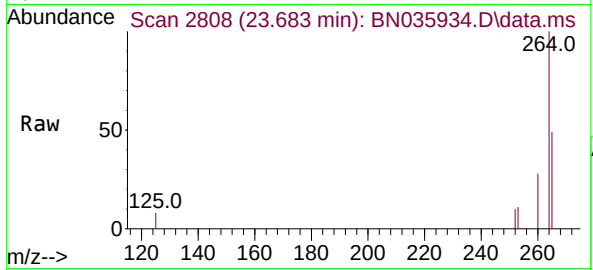




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.683 min Scan# 21
Delta R.T. -0.011 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

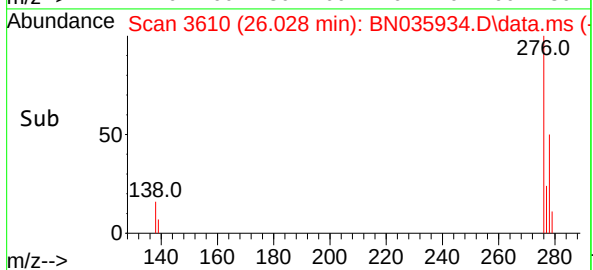
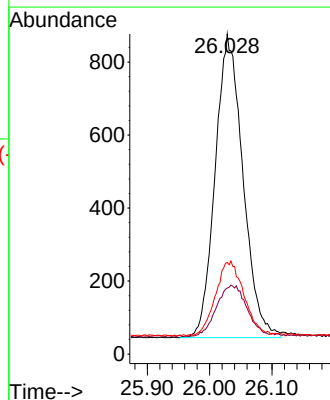
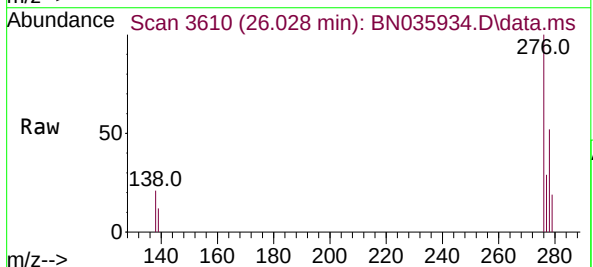
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

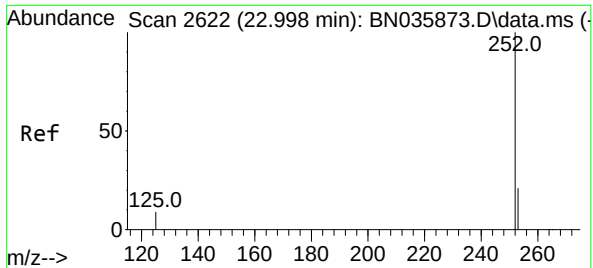
Tgt Ion:264 Resp: 1685
Ion Ratio Lower Upper
264 100
260 28.0 21.7 32.5
265 49.4 33.9 50.9



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.386 ng
RT: 26.028 min Scan# 3610
Delta R.T. -0.019 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion:276 Resp: 2564
Ion Ratio Lower Upper
276 100
138 18.6 18.9 28.3#
277 24.6 19.5 29.3

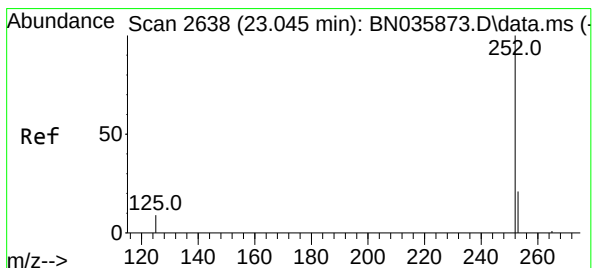
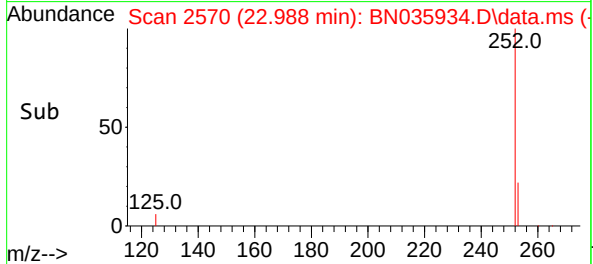
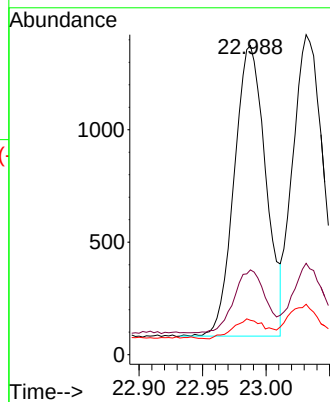
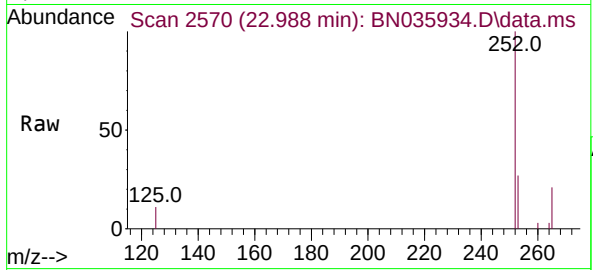




#37
Benzo(b)fluoranthene
Concen: 0.386 ng
RT: 22.988 min Scan# 21
Delta R.T. -0.011 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

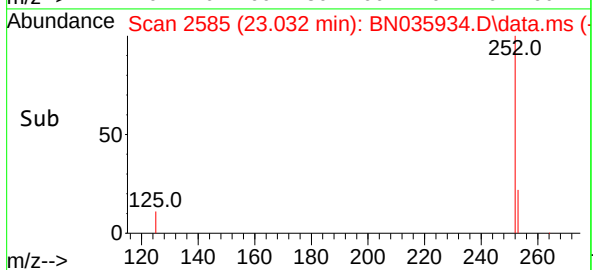
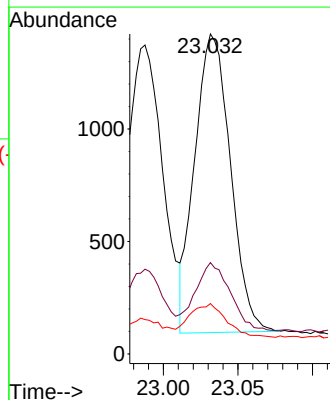
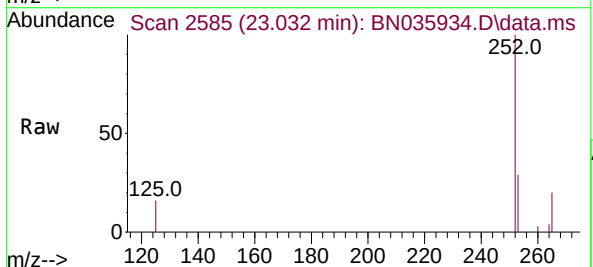
Instrument :
BNA_N
ClientSampleId :
PB166053BSD

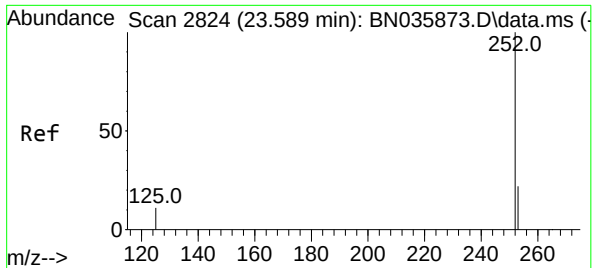
Tgt Ion:252 Resp: 2233
Ion Ratio Lower Upper
252 100
253 27.4 20.1 30.1
125 11.1 9.9 14.9



#38
Benzo(k)fluoranthene
Concen: 0.385 ng
RT: 23.032 min Scan# 2585
Delta R.T. -0.013 min
Lab File: BN035934.D
Acq: 15 Jan 2025 17:00

Tgt Ion:252 Resp: 2207
Ion Ratio Lower Upper
252 100
253 28.5 20.5 30.7
125 15.7 10.6 16.0





#39

Benzo(a)pyrene

Concen: 0.385 ng

RT: 23.578 min Scan# 21

Delta R.T. -0.011 min

Lab File: BN035934.D

Acq: 15 Jan 2025 17:00

Instrument :

BNA_N

ClientSampleId :

PB166053BSD

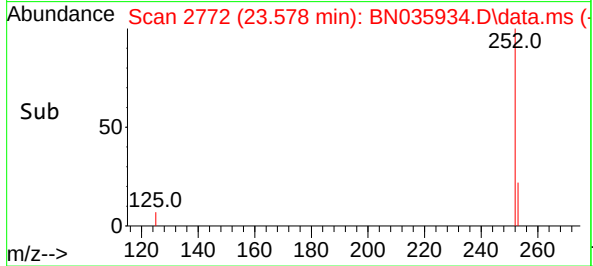
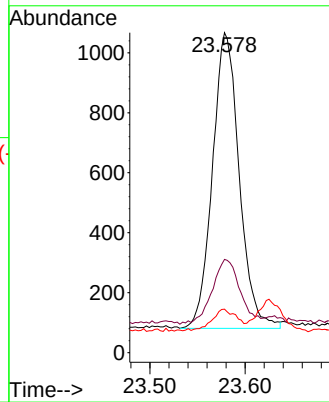
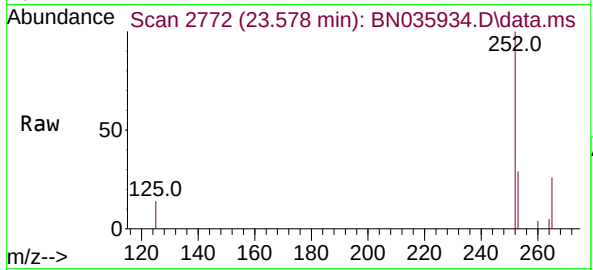
Tgt Ion:252 Resp: 1928

Ion Ratio Lower Upper

252 100

253 29.1 21.5 32.3

125 13.6 12.6 19.0



#40

Dibenzo(a,h)anthracene

Concen: 0.393 ng

RT: 26.049 min Scan# 3617

Delta R.T. -0.022 min

Lab File: BN035934.D

Acq: 15 Jan 2025 17:00

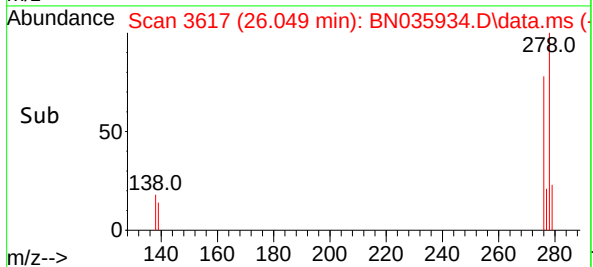
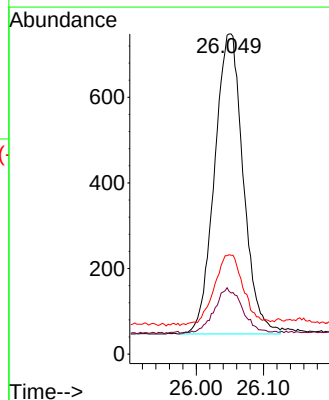
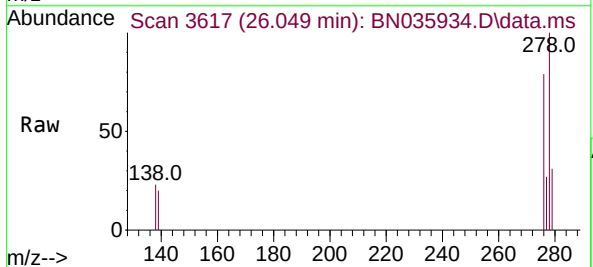
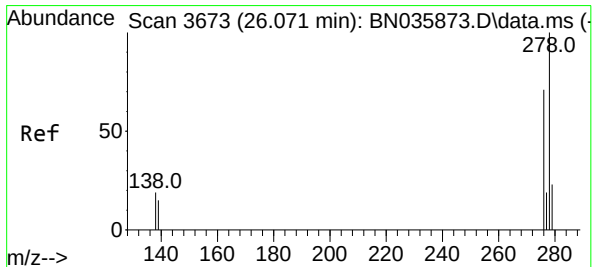
Tgt Ion:278 Resp: 2080

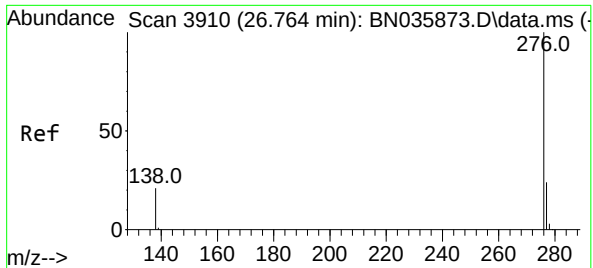
Ion Ratio Lower Upper

278 100

139 19.7 15.9 23.9

279 31.0 23.0 34.4





#41

Benzo(g,h,i)perylene

Concen: 0.371 ng

RT: 26.745 min Scan# 3855

Delta R.T. -0.019 min

Lab File: BN035934.D

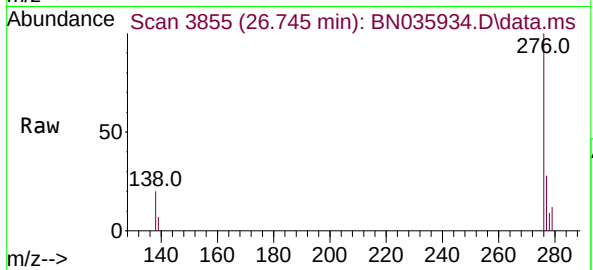
Acq: 15 Jan 2025 17:00

Instrument :

BNA_N

ClientSampleId :

PB166053BSD



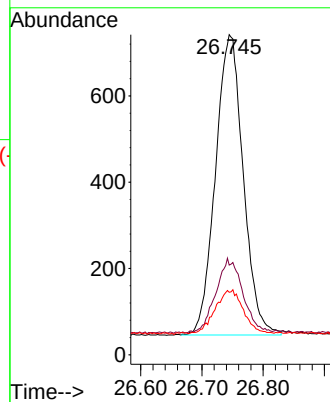
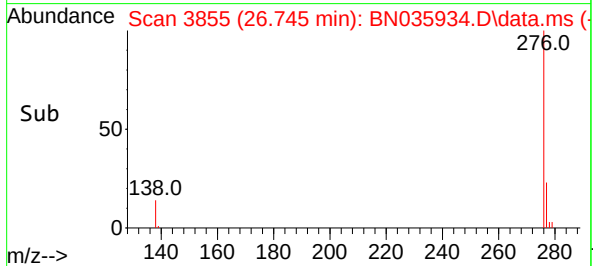
Tgt Ion:276 Resp: 2191

Ion Ratio Lower Upper

276 100

277 28.0 22.8 34.2

138 19.5 20.1 30.1#





Manual Integration Report

Sequence:	BN010225	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason



Manual Integration Report

Sequence:	BN011525	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN010225

Review By	Jagrut	Review On	1/3/2025 3:37:20 PM
Supervise By	mohammad	Supervise On	1/6/2025 8:20:47 AM
SubDirectory	BN010225	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn010225
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
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	BN035870.D	02 Jan 2025 10:49	RC/JU	Ok
2	SSTDICC0.1	BN035871.D	02 Jan 2025 11:28	RC/JU	Ok
3	SSTDICC0.2	BN035872.D	02 Jan 2025 12:04	RC/JU	Ok
4	SSTDICCC0.4	BN035873.D	02 Jan 2025 12:40	RC/JU	Ok
5	SSTDICC0.8	BN035874.D	02 Jan 2025 13:16	RC/JU	Ok
6	SSTDICC1.6	BN035875.D	02 Jan 2025 13:52	RC/JU	Ok
7	SSTDICC3.2	BN035876.D	02 Jan 2025 14:28	RC/JU	Ok
8	SSTDICC5.0	BN035877.D	02 Jan 2025 15:04	RC/JU	Ok
9	SSTDICV0.4	BN035878.D	02 Jan 2025 15:51	RC/JU	Ok
10	PB165828BL	BN035879.D	02 Jan 2025 16:41	RC/JU	Not Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN011525

Review By	yogesh	Review On	1/16/2025 7:30:57 AM
Supervise By	mohammad	Supervise On	1/16/2025 7:52:01 AM
SubDirectory	BN011525	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn010225
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC	SP6661		
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	BN035925.D	15 Jan 2025 09:47	RC/JU	Ok
2	SSTDCCC0.4	BN035926.D	15 Jan 2025 10:27	RC/JU	Ok
3	PB166053BL	BN035927.D	15 Jan 2025 11:03	RC/JU	Ok
4	Q1081-01	BN035928.D	15 Jan 2025 11:39	RC/JU	Dilution
5	Q1081-02	BN035929.D	15 Jan 2025 12:15	RC/JU	Ok
6	Q1081-03	BN035930.D	15 Jan 2025 12:51	RC/JU	Ok
7	Q1081-01DL	BN035931.D	15 Jan 2025 13:27	RC/JU	Ok
8	Q1081-04	BN035932.D	15 Jan 2025 14:02	RC/JU	Ok
9	PB166053BS	BN035933.D	15 Jan 2025 16:24	RC/JU	Ok
10	PB166053BSD	BN035934.D	15 Jan 2025 17:00	RC/JU	Ok
11	SSTDCCC0.4	BN035935.D	15 Jan 2025 17:36	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN010225

Review By	Jagrut	Review On	1/3/2025 3:37:20 PM
Supervise By	mohammad	Supervise On	1/6/2025 8:20:47 AM
SubDirectory	BN010225	HP Acquire Method	BNA_N, 8270_HP Processing Method bn010225

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
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	BN035870.D	02 Jan 2025 10:49		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN035871.D	02 Jan 2025 11:28		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN035872.D	02 Jan 2025 12:04		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN035873.D	02 Jan 2025 12:40	The Calibration is Good For DOD	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN035874.D	02 Jan 2025 13:16		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN035875.D	02 Jan 2025 13:52		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN035876.D	02 Jan 2025 14:28		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN035877.D	02 Jan 2025 15:04		RC/JU	Ok
9	SSTDICV0.4	ICVBN010225	BN035878.D	02 Jan 2025 15:51		RC/JU	Ok
10	PB165828BL	PB165828BL	BN035879.D	02 Jan 2025 16:41	Analyzed for Contamination check	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN011525

Review By	yogesh	Review On	1/16/2025 7:30:57 AM
Supervise By	mohammad	Supervise On	1/16/2025 7:52:01 AM
SubDirectory	BN011525	HP Acquire Method	BNA_N, 8270_HP Processing Method bn010225

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
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	BN035925.D	15 Jan 2025 09:47		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035926.D	15 Jan 2025 10:27		RC/JU	Ok
3	PB166053BL	PB166053BL	BN035927.D	15 Jan 2025 11:03		RC/JU	Ok
4	Q1081-01	RW7-SP100-20250113	BN035928.D	15 Jan 2025 11:39	Need 2X Dilution	RC/JU	Dilution
5	Q1081-02	RW7-SP201-20250113	BN035929.D	15 Jan 2025 12:15		RC/JU	Ok
6	Q1081-03	RW7-SP302-20250113	BN035930.D	15 Jan 2025 12:51		RC/JU	Ok
7	Q1081-01DL	RW7-SP100-20250113	BN035931.D	15 Jan 2025 13:27		RC/JU	Ok
8	Q1081-04	RW7-SP303-20250113	BN035932.D	15 Jan 2025 14:02		RC/JU	Ok
9	PB166053BS	PB166053BS	BN035933.D	15 Jan 2025 16:24		RC/JU	Ok
10	PB166053BSD	PB166053BSD	BN035934.D	15 Jan 2025 17:00		RC/JU	Ok
11	SSTDCCC0.4	SSTDCCC0.4EC	BN035935.D	15 Jan 2025 17:36		RC/JU	Ok

M : Manual Integration

SOP ID:	M3510C,3580A-Extraction SVOC-20		
Clean Up SOP #:	N/A	Extraction Start Date :	01/14/2025
Matrix :	Water	Extraction Start Time :	11:00
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#:	E3574	Hood ID:	4,5,6,7
Extraction Method:	☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet		
Extraction End Date :	01/14/2025		
Extraction End Time :	16:00		
Concentration By:	EH		
Supervisor By :	rajesh		

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6616
Surrogate	1.0ML	0.4 PPM	SP6666
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	E3871
Baked Na2SO4	N/A	EP2577
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
01/14/25	RP (Ext. Lab)	Rc/svc
16:05	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 01/14/2025

Sample ID	Client Sample ID	Test	g / (mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166053BL	SBLK053	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			SEP-01
PB166053BS	SLCS053	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			2
PB166053BS D	SLCSD053	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			3
Q1081-01	RW7-SP100-20250113	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	B		4
Q1081-02	RW7-SP201-20250113	SVOC-SIMGrou p1	990	6	RUPESH	rajesh	1			5
Q1081-03	RW7-SP302-20250113	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			6
Q1081-04	RW7-SP303-20250113	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	B		7

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1081 WorkList ID : 186908 Department : Extraction Date : 01-14-2025 10:55:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1081-01	RW7-SP100-20250113	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	N41	01/13/2025	8270-Modified
Q1081-02	RW7-SP201-20250113	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	N41	01/13/2025	8270-Modified
Q1081-03	RW7-SP302-20250113	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	N41	01/13/2025	8270-Modified
Q1081-04	RW7-SP303-20250113	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	N41	01/13/2025	8270-Modified

Date/Time 01/14/25 10:56
 Raw Sample Received by: RS (Sel 145)
 Raw Sample Relinquished by: RS (Sel 145)

Prep Standard - Chemical Standard Summary

Order ID : Q1081
Test : SVOC-SIMGroup1
Prepbatch ID : PB166053,
Sequence ID/Qc Batch ID: BN011525,

Standard ID :
EP2559,EP2565,EP2577,SP6616,SP6629,SP6656,SP6657,SP6658,SP6659,SP6660,SP6661,SP6662,SP6663,SP666
6,SP6682,SP6683,SP6684,SP6717,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3788,E3791,E3817,E3818,E3828,E3871,M5173,S10103,S10246,S11011,S11074,S11097,S114
94,S11792,S11831,S12077,S12079,S12105,S12113,S12126,S12142,S12189,S12207,S12208,S12314,S12328,S12453
,S12469,S12517,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2577	01/06/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/06/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6616	09/06/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed 09/11/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11792 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 +
99.85840ml of E3788 = 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>
3493	Internal Standard 0.4 PPM	SP6629	09/12/2024	03/04/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								10/14/2024

FROM 0.10000ml of S12314 + 4.90000ml of E3791 = 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>
3339	8270 sim calibration stock 10ppm (CPI)	SP6656	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.03350ml of S10103 + 0.05000ml of S11494 + 0.05000ml of S12079 + 0.12500ml of S11831 + 0.12500ml of S12113 + 0.20000ml of S12077 + 0.25000ml of S11097 + 24.16650ml of E3817 = Final Quantity: 25.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6657	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6656 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6658	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.68000ml of E3817 + 0.01000ml of SP6629 + 0.32000ml of SP6656 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6659	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.84000ml of E3817 + 0.01000ml of SP6629 + 0.16000ml of SP6656 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6660	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.92000ml of E3817 + 0.01000ml of SP6629 + 0.08000ml of SP6656 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6661	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.96000ml of E3817 + 0.01000ml of SP6629 + 0.04000ml of SP6656 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6662	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6661 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6663	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.75000ml of E3817 + 0.01000ml of SP6629 + 0.25000ml of SP6661 = 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>
3491	8270-SIM-Surrogate 0.4 PPM	SP6666	10/29/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								11/28/2024

FROM 0.00800ml of S12189 + 0.01600ml of S12207 + 0.04000ml of S11831 + 199.93600ml of E3818 = Final Quantity: 200.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								12/03/2024

FROM 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml

<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
								12/03/2024

FROM 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

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>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTTP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel
FROM 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

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)	24G2362009	03/09/2025	09/09/2024 / Rajesh	09/03/2024 / Rajesh	E3791

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)	24H2762011	04/09/2025	10/09/2024 / Rajesh	10/09/2024 / Rajesh	E3817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

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)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

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	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0193449	02/20/2025	08/20/2024 / yogesh	01/13/2023 / Christian	S11011

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

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	495831	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11097

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	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

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	02/21/2025	08/21/2024 / Jagrut	11/21/2023 / Rahul	S11792

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 #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

CHEMICAL RECEIPT LOG BOOK

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	04/24/2025	10/24/2024 / Jagrut	01/31/2024 / Rahul	S12079

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]	A0207706	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105
[CS 4978-2]						

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	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

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	02/12/2025	08/12/2024 / Rahul	03/15/2024 / Rahul	S12126

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0206540	03/04/2025	09/04/2024 / anahy	05/30/2024 / Rahul	S12314

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	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	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	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 #
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
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Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Erica Castiglione

Certified By:

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



5580 Skylane Blvd
Santa Rosa, CA 95403

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Receivalon
02/07/23 by CG

Shelf S11096
to
S11099

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 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	495831	≤ -10 °C	Methylene Chloride	10/30/2027	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	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*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

Brianna Smith

Certified By: _____

Brianna Smith
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.: 495831

Expiration Date: 10/30/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By:



Briana Smith
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



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2025 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

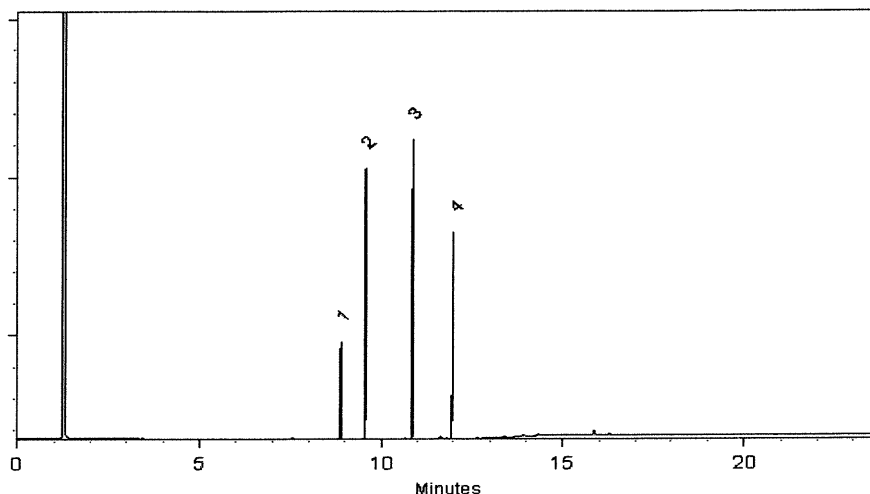
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

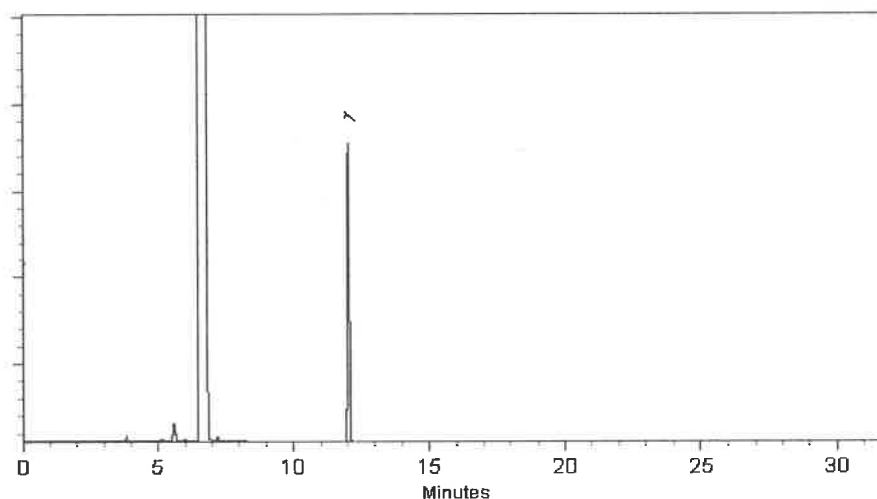
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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.:** A0193449
Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2026 **Storage:** 10°C or colder
Ship: Ambient

Received on
01/13/23
by
CG
S11011
+0
S11015

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Jan-2023

Balance: B442140311

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.



**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.

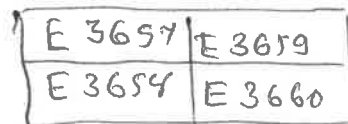
This document has been electronically produced and is valid without a signature.

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.



Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 23H1462005

Manufactured Date: 2023-07-26

Expiration Date: 2026-07-25

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
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: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

Avantor™

Material No.: 9266-A4
Batch No.: 24G2362009
Manufactured Date: 2024-06-10
Expiration Date: 2025-09-09
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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F10024

E 3791



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
Page 1 of 1

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date: 2025-09-04
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	5
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	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3817

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) 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 10/9/24

E 3818

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	0.01%

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3871

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

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Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



5580 Skyline Blvd
Santa Rosa, CA 95403
(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄		2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5		4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

Certified By: _____
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

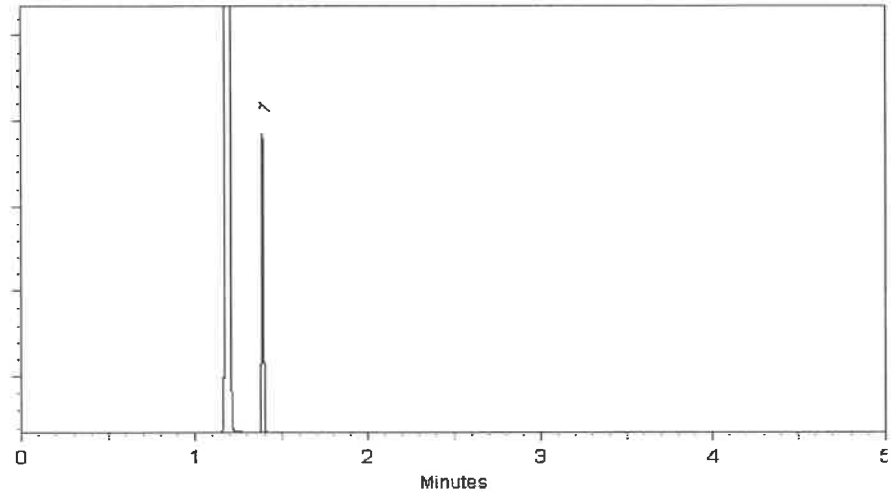
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

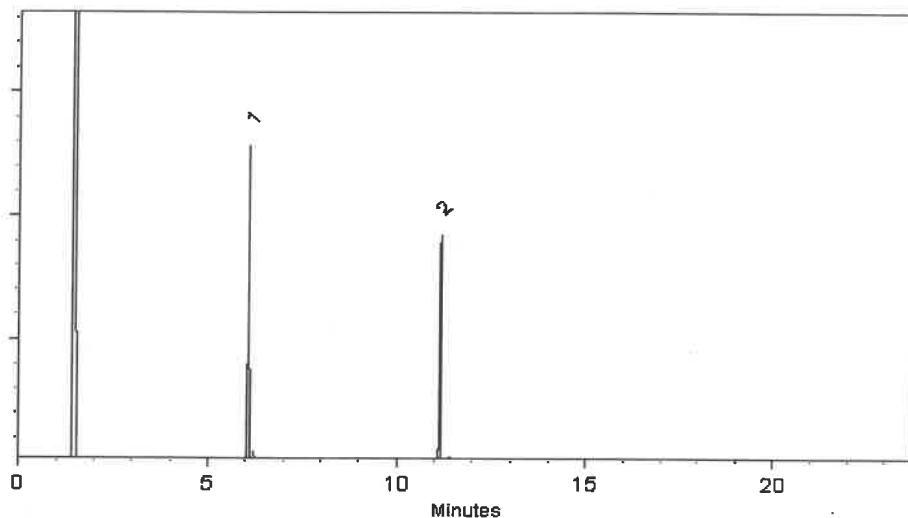
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

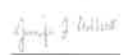


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12075 } RC
↓
S12079 } 02/01/24

*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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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

912075 } RC
↓
912079 } 02/01/24

*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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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

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 : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

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%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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Date Received: _____

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

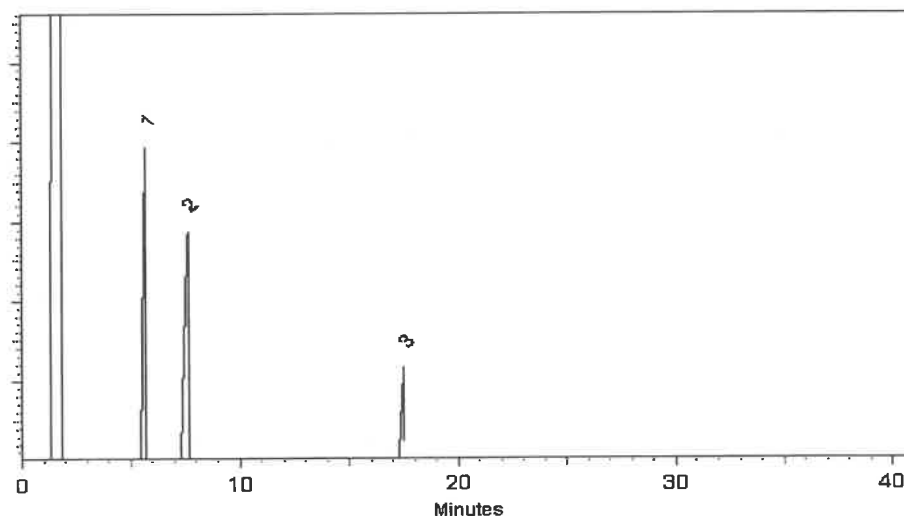
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Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

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



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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. : 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:

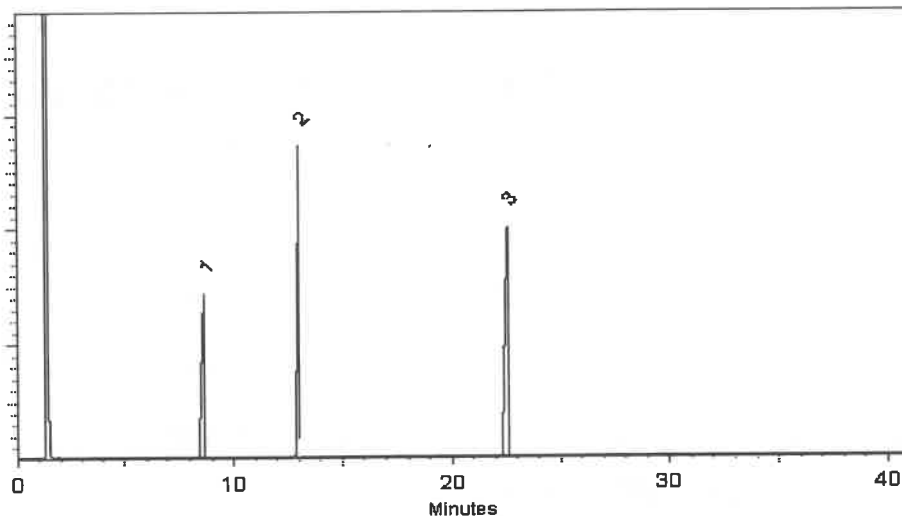
FID

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

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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. : 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:

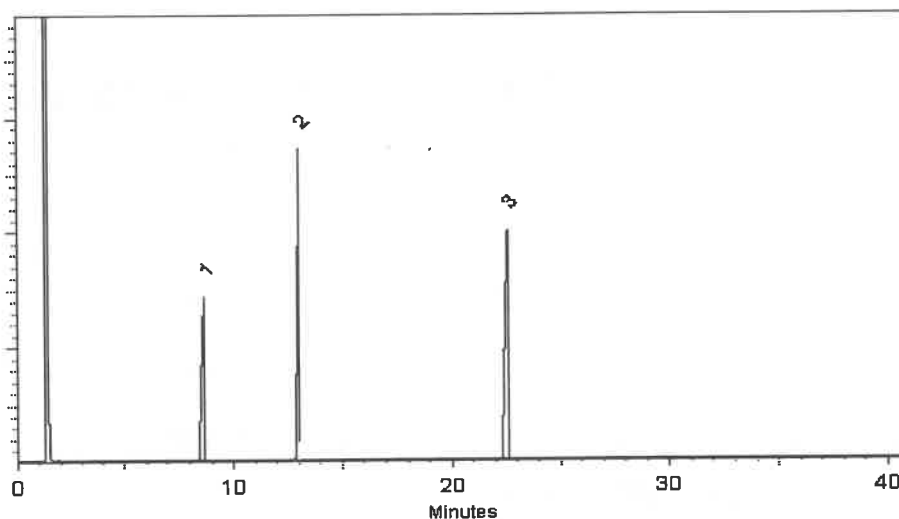
FID

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
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Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
↓ 05/30/24
S12331

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

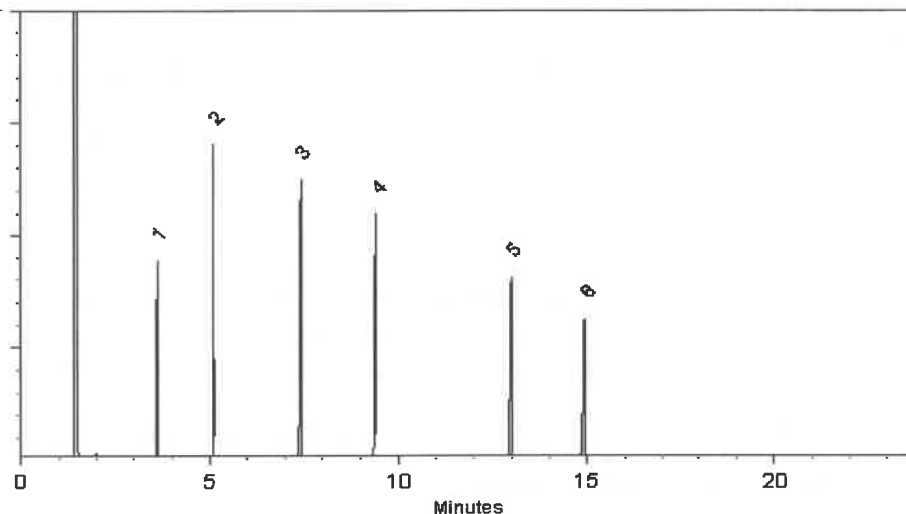
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

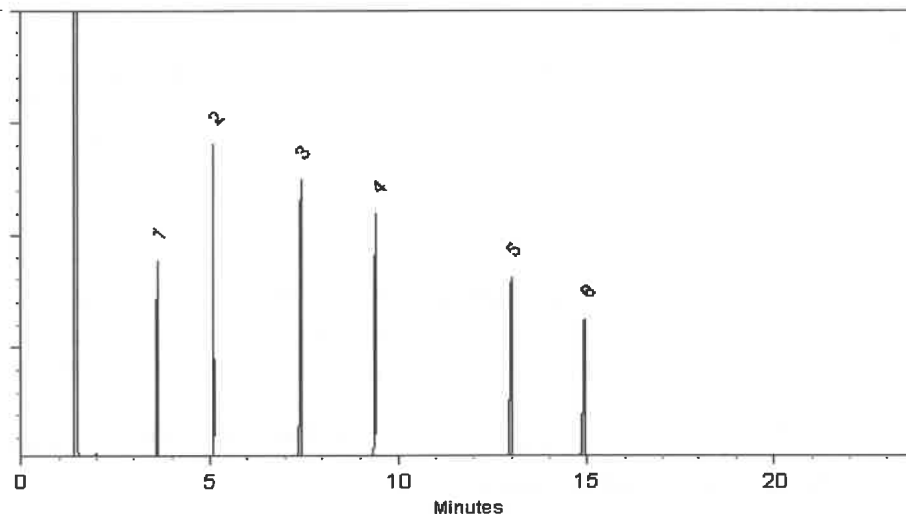
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



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Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer J. Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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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

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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
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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
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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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.
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- 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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Manufacturing Notes:

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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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SHIPPING DOCUMENTS

- 1
- 2
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CHAIN OF CUSTODY RECORD

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:							
ATTENTION: Ernie Wu				E-MAIL: ernie.wu@tetratech.com				ATTENTION:							
PHONE: 757-466-4901 FAX: 757-461-4148				PHONE: 757-466-4901 FAX: 757-461-4148				PHONE:							
DATA TURNAROUND INFORMATION				DATA DELIVERABLE INFORMATION				ANALYSIS							
FAX: 10 10 DAYS* HARD COPY: 10 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 1 2 3 4 5 6 7 8 9							
CHEMTECH SAMPLE ID				PROJECT SAMPLE IDENTIFICATION		SAMPLE MATRIX		SAMPLE TYPE		SAMPLE COLLECTION		PRESERVATIVES		COMMENTS	
								COMP GRAB		DATE TIME		# of Bottles		B	
1.				RW7-SP100-20250113		GW				1/13/25 12:15		2		X	
2.				RW7-SP201-20250113		GW				1/13/25 12:17		1		X	
3.				RW7-SP302-20250113		GW				1/13/25 12:27		1		X	
4.				RW7-SP303-20250113		GW				1/13/25 12:29		2		X	
5.															
6.															
7.															
8.															
9.															
10.															
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY															
RELINQUISHED BY SAMPLER				DATE/TIME		RECEIVED BY		Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp. 1-2°C MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler? <u>Y</u>							
1. <u>U. H. H. K.</u>				1/13/25/1520		1. <u>[Signature]</u>									
RELINQUISHED BY				DATE/TIME		RECEIVED BY									
2. <u>U. H. H. K.</u>				1/14/25		2. <u>[Signature]</u>									
RELINQUISHED BY				DATE/TIME		RECEIVED FOR LAB BY									
3.						3.		Page _____ of _____							
SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight															
SHIPMENT COMPLETE ☐ YES ☐ NO															
WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY															

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488