

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : CTO WE13

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

ORDER ID : P4773
ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : P4773

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P4773-01
P4773-02
P4773-03
P4773-04

Client Sample Number

RW7-SP100-20241107
RW7-SP201-20241107
RW7-SP302-20241107
RW7-SP303-20241107

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 :

N. N. Pandya

APPROVED

Date: 11/20/2024
By Nimisha Pandya, QA/QC Supervisor at 2:05 pm, Nov 20, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager : Ernie Wu

Chemtech Project # P4773

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

4 Water samples were received on 11/07/2024.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate for {PB164785BSD} with File ID: BN035072.D met requirements for all samples except for 1,4-Dioxane[68%] failing marginally low therefore no corrective action taken.

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

The Initial Calibration met the requirements .

The Continuous Calibration File ID BN035082.D met the requirements except for 2,4,6-Tribromophenol is not associated with client parameter list therefore no corrective action taken.

The Tuning criteria met requirements.

Sample RW7-SP100-20241107 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_____

N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 2:06 pm, Nov 20, 2024

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: P4773

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 BN035082.D met the requirements except for 2,4,6- Tribromophenol is not associated with client parameter list therefore no corrective action 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.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate for {PB164785BSD} with File ID: BN035072.D met requirements for all samples except for 1,4-Dioxane[68%] .		✓	
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:			✓

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

(CONTINUED)

NA NO YES

11. Analysis Holding Time Met

✓

If not met, list number of days exceeded for each sample:

ADDITIONAL COMMENTS:

Sample RW7-SP100-20241107 was diluted due to high concentration.

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.

S. M. Jodhani
QA REVIEW

REVIEWED

By Sohil Jodhani, QA/QC Director at 10:09 am, Nov 20, 2024

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4773

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 11/20/2024

LAB CHRONICLE

OrderID:	P4773	OrderDate:	11/7/2024 3:45:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	L31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4773-01	RW7-SP100-20241107	Water			11/07/24			11/07/24
			SVOC-SIMGroup1	8270-Modified		11/08/24	11/13/24	
P4773-01DL	RW7-SP100-20241107DL	Water			11/07/24			11/07/24
			SVOC-SIMGroup1	8270-Modified		11/08/24	11/14/24	
P4773-02	RW7-SP201-20241107	Water			11/07/24			11/07/24
			SVOC-SIMGroup1	8270-Modified		11/08/24	11/13/24	
P4773-03	RW7-SP302-20241107	Water			11/07/24			11/07/24
			SVOC-SIMGroup1	8270-Modified		11/08/24	11/14/24	
P4773-04	RW7-SP303-20241107	Water			11/07/24			11/07/24
			SVOC-SIMGroup1	8270-Modified		11/08/24	11/14/24	

Hit Summary Sheet SW-846

SDG No.: P4773
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW7-SP100-20241107								
P4773-01	RW7-SP100-20241107	WATER	1,4-Dioxane	5.800	EQ	0.07	0.2	ug/L
			Total Svoc :	5.80				
			Total Concentration:	5.80				
Client ID : RW7-SP100-20241107DL								
P4773-01DL	RW7-SP100-20241107DI	WATER	1,4-Dioxane	5.400	DQ	0.14	0.4	ug/L
			Total Svoc :	5.40				
			Total Concentration:	5.40				
Client ID : RW7-SP302-20241107								
P4773-03	RW7-SP302-20241107	WATER	1,4-Dioxane	0.080	JQ	0.07	0.2	ug/L
			Total Svoc :	0.08				
			Total Concentration:	0.08				
Client ID : RW7-SP303-20241107								
P4773-04	RW7-SP303-20241107	WATER	1,4-Dioxane	0.070	JQ	0.07	0.2	ug/L
			Total Svoc :	0.07				
			Total Concentration:	0.07				



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P4773

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4773-01	RW7-SP100-20241107	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.40	101		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.46	115		58	132
P4773-01DL	RW7-SP100-20241107DL	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.36	91		53	106
		Terphenyl-d14	0.4	0.44	110		58	132
P4773-02	RW7-SP201-20241107	2-Methylnaphthalene-d10	0.4	0.39	98		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.41	103		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.46	115		58	132
P4773-03	RW7-SP302-20241107	2-Methylnaphthalene-d10	0.4	0.42	106		30	150
		Fluoranthene-d10	0.4	0.43	106		30	150
		Nitrobenzene-d5	0.4	0.42	105		55	111
		2-Fluorobiphenyl	0.4	0.42	105		53	106
		Terphenyl-d14	0.4	0.51	127		58	132
P4773-04	RW7-SP303-20241107	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.36	91		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.46	114		58	132
PB164785BL	PB164785BL	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.37	91		53	106
		Terphenyl-d14	0.4	0.42	104		58	132
PB164785BS	PB164785BS	2-Methylnaphthalene-d10	0.4	0.44	110		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.41	101		58	132
PB164785BSD	PB164785BSD	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.29	72		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.32	79		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4773

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035071.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB164785BS	1,4-Dioxane	0.4	0.33	ug/L	83				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4773

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035072.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB164785BSD	1,4-Dioxane	0.4	0.27	ug/L	68	20	*		70	130		20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164785BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P4773

SAS No.: P4773 SDG NO.: P4773

Lab File ID: BN035070.D

Lab Sample ID: PB164785BL

Instrument ID: BNA_N

Date Extracted: 11/08/2024

Matrix: (soil/water) Water

Date Analyzed: 11/13/2024

Level: (low/med) LOW

Time Analyzed: 17:27

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164785BS	PB164785BS	BN035071.D	11/13/2024
PB164785BSD	PB164785BSD	BN035072.D	11/13/2024
RW7-SP302-20241107	P4773-03	BN035092.D	11/14/2024
RW7-SP303-20241107	P4773-04	BN035091.D	11/14/2024
RW7-SP100-20241107	P4773-01	BN035076.D	11/13/2024
RW7-SP201-20241107	P4773-02	BN035077.D	11/13/2024

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4773 SDG NO.: P4773Lab File ID: BN035061.DDFTPP Injection Date: 11/13/2024Instrument ID: BNA_NDFTPP Injection Time: 12:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	19.6
68	Less than 2.0% of mass 69	0.4 (1.4) 1
69	Mass 69 relative abundance	29.1
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	35.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	4.4
441	Present, but less than mass 443	9.3
442	Greater than 50% of mass 198	59.1
443	15.0 - 24.0% of mass 442	11.2 (19) 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	BN035062.D	11/13/2024	12:40
SSTDICC0.2	SSTDICC0.2	BN035063.D	11/13/2024	13:16
SSTDICCC0.4	SSTDICCC0.4	BN035064.D	11/13/2024	13:52
SSTDICC0.8	SSTDICC0.8	BN035065.D	11/13/2024	14:28
SSTDICC1.6	SSTDICC1.6	BN035066.D	11/13/2024	15:04
SSTDICC3.2	SSTDICC3.2	BN035067.D	11/13/2024	15:39
SSTDICC5.0	SSTDICC5.0	BN035068.D	11/13/2024	16:15
PB164785BL	PB164785BL	BN035070.D	11/13/2024	17:27
PB164785BS	PB164785BS	BN035071.D	11/13/2024	18:03
PB164785BSD	PB164785BSD	BN035072.D	11/13/2024	18:38
RW7-SP100-20241107	P4773-01	BN035076.D	11/13/2024	21:01
RW7-SP201-20241107	P4773-02	BN035077.D	11/13/2024	21:37
SSTDCCC0.4EC	SSTDCCC0.4	BN035080.D	11/13/2024	23:24



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4773 SDG NO.: P4773Lab File ID: BN035081.DDFTPP Injection Date: 11/14/2024Instrument ID: BNA_NDFTPP Injection Time: 08:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	19.9
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	30.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	37.5
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	29.4
365	Greater than 1% of mass 198	4.8
441	Present, but less than mass 443	9.9
442	Greater than 50% of mass 198	63.6
443	15.0 - 24.0% of mass 442	10.8 (16.9) 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	BN035082.D	11/14/2024	10:12
RW7-SP303-20241107	P4773-04	BN035091.D	11/14/2024	17:11
RW7-SP302-20241107	P4773-03	BN035092.D	11/14/2024	17:47
RW7-SP100-20241107DL	P4773-01DL	BN035093.D	11/14/2024	18:23
SSTDCCC0.4EC	SSTDCCC0.4	BN035095.D	11/14/2024	19:35

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4773 SAS No.: P4773 SDG NO.: P4773

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 11/13/2024

Lab File ID: BN035064.D Time Analyzed: 13:52

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	2804	7.553	6865	10.32	5401	14.19
UPPER LIMIT	5608	8.053	13730	10.819	10802	14.686
LOWER LIMIT	1402	7.053	3432.5	9.819	2700.5	13.686
EPA SAMPLE NO.						
01 RW7-SP100-20241107	2300	7.55	5817	10.32	4551	14.19
02 RW7-SP201-20241107	2283	7.55	5712	10.32	4446	14.19
03 PB164785BL	2165	7.55	5024	10.32	3542	14.19
04 PB164785BS	2135	7.55	5031	10.32	3550	14.19
05 PB164785BSD	2529	7.55	5952	10.32	4350	14.19

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.: P4773 SAS No.: P4773 SDG NO.: P4773

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 11/13/2024

Lab File ID: BN035064.D Time Analyzed: 13:52

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	13499	16.939	14946	21.14	17077	23.304
UPPER LIMIT	26998	17.439	29892	21.64	34154	23.804
LOWER LIMIT	6749.5	16.439	7473	20.64	8538.5	22.804
EPA SAMPLE NO.						
01 RW7-SP100-20241107	12064	16.93	13393	21.13	14946	23.30
02 RW7-SP201-20241107	11812	16.94	12589	21.13	13332	23.30
03 PB164785BL	9470	16.93	10363	21.13	11874	23.31
04 PB164785BS	9574	16.94	9856	21.14	10124	23.30
05 PB164785BSD	12047	16.94	12506	21.13	13065	23.30

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4773 SAS No.: P4773 SDG NO.: P4773

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/14/2024

Lab File ID: BN035082.D Time Analyzed: 10:12

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	2551	7.553	6362	10.32	5037	14.19
UPPER LIMIT	5102	8.053	12724	10.819	10074	14.69
LOWER LIMIT	1275.5	7.053	3181	9.819	2518.5	13.69
EPA SAMPLE NO.						
01 RW7-SP100-20241107DL	2839	7.55	7379	10.32	5672	14.19
02 RW7-SP302-20241107	2453	7.55	6339	10.32	4841	14.19
03 RW7-SP303-20241107	2624	7.55	6821	10.32	5370	14.19

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.: P4773 SAS No.: P4773 SDG NO.: P4773

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/14/2024

Lab File ID: BN035082.D Time Analyzed: 10:12

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	12802	16.933	13485	21.134	14730	23.3
UPPER LIMIT	25604	17.433	26970	21.634	29460	23.8
LOWER LIMIT	6401	16.433	6742.5	20.634	7365	22.8
EPA SAMPLE NO.						
01 RW7-SP100-20241107DL	13767	16.93	13450	21.13	13263	23.30
02 RW7-SP302-20241107	11862	16.93	11655	21.13	11245	23.30
03 RW7-SP303-20241107	12809	16.93	12812	21.13	13035	23.30

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/07/24
Project:	CTO WE13	Date Received:	11/07/24
Client Sample ID:	RW7-SP100-20241107	SDG No.:	P4773
Lab Sample ID:	P4773-01	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035076.D	1	11/08/24 11:30	11/13/24 21:01	PB164785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.80	EQ	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		101%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		115%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2300	7.553				
1146-65-2	Naphthalene-d8	5820	10.319				
15067-26-2	Acenaphthene-d10	4550	14.19				
1517-22-2	Phenanthrene-d10	12100	16.932				
1719-03-5	Chrysene-d12	13400	21.133				
1520-96-3	Perylene-d12	14900	23.3				

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\BN111324\
Data File : BN035076.D
Acq On : 13 Nov 2024 21:01
Operator : RC/JU
Sample : P4773-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107

Quant Time: Nov 14 02:07:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

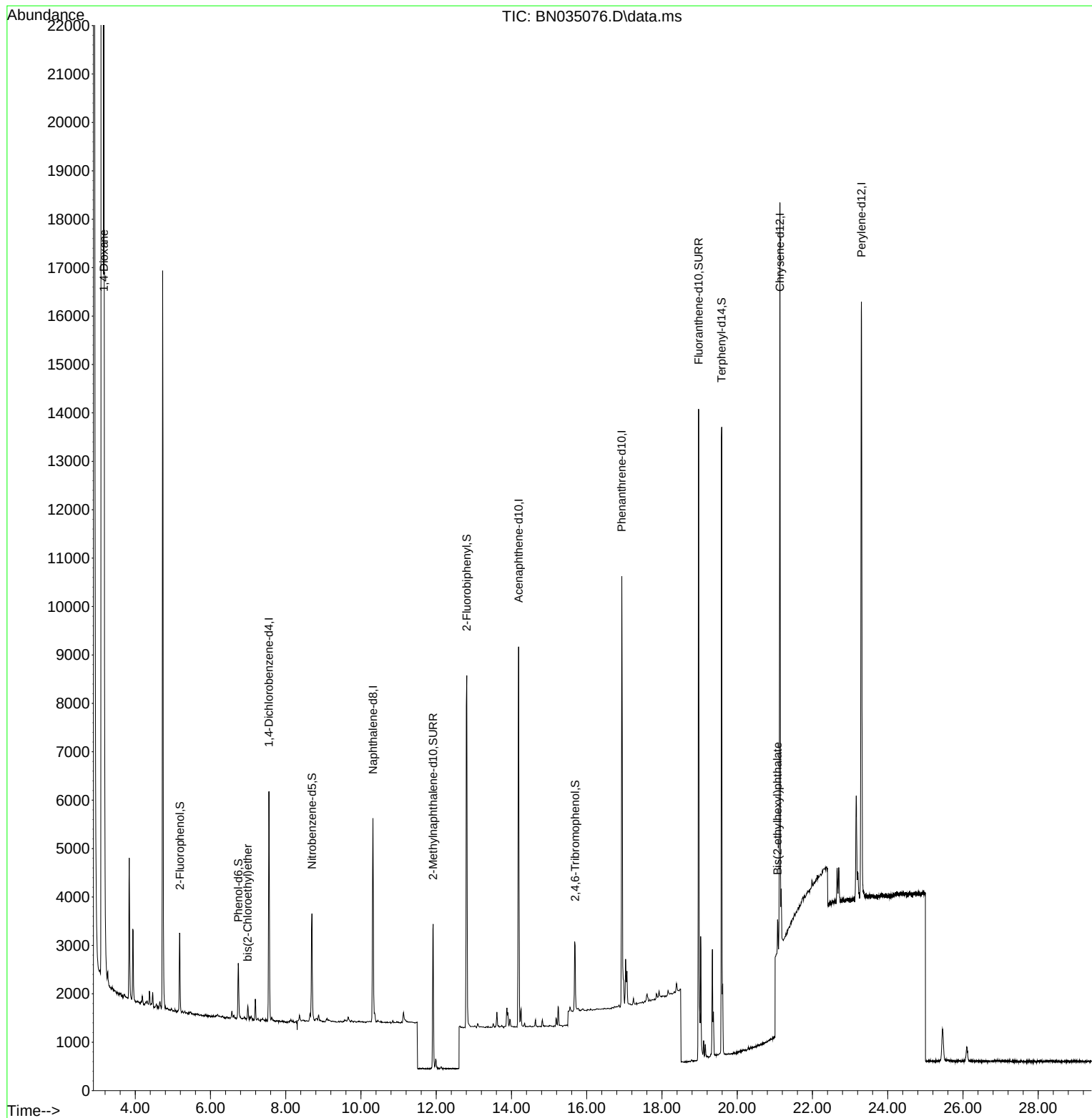
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2300	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	5817	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	4551	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	12064	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	13393	0.400	ng	# 0.00
35) Perylene-d12	23.300	264	14946	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.184	112	1359	0.233	ng	0.00
5) Phenol-d6	6.744	99	1162	0.159	ng	0.00
8) Nitrobenzene-d5	8.696	82	2048	0.404	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	4029	0.389	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	980	0.299	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	7036	0.381	ng	0.00
27) Fluoranthene-d10	18.973	212	15608	0.422	ng	0.00
31) Terphenyl-d14	19.587	244	12911	0.459	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.169	88	12154	5.818	ng	99
6) bis(2-Chloroethyl)ether	6.990	93	234	0.043	ng	94
34) Bis(2-ethylhexyl)phtha...	21.071	149	819	0.033	ng	# 95

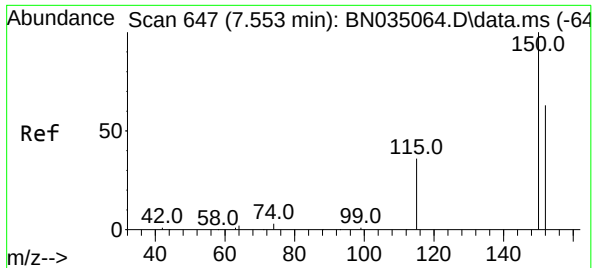
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035076.D
Acq On : 13 Nov 2024 21:01
Operator : RC/JU
Sample : P4773-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107

Quant Time: Nov 14 02:07:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

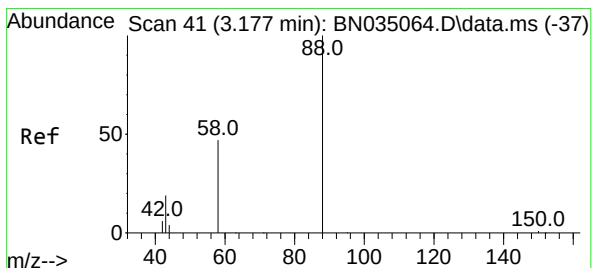
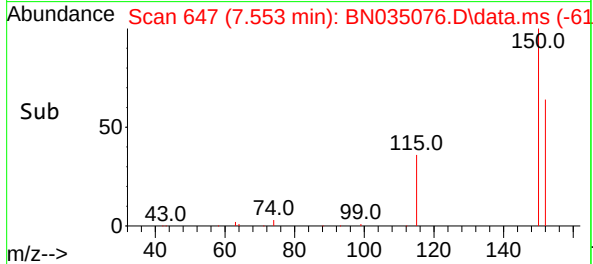
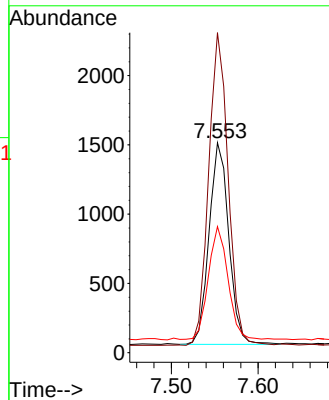
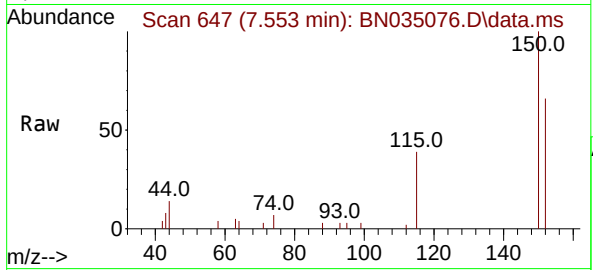




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

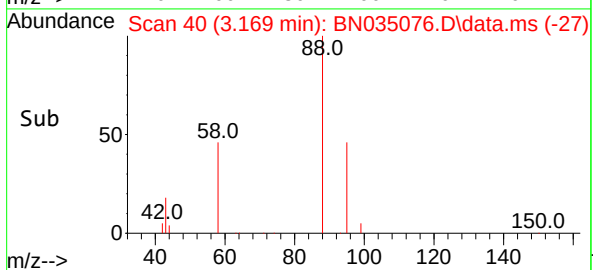
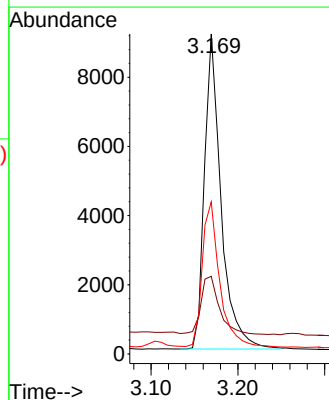
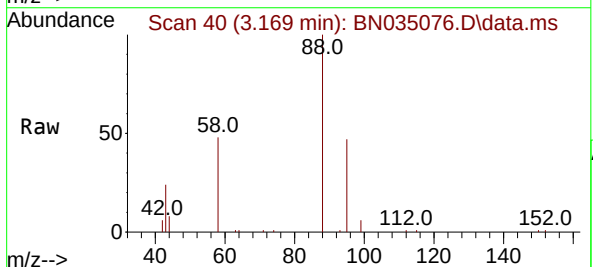
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107

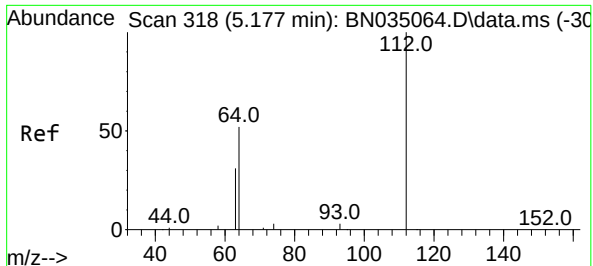
Tgt Ion:152 Resp: 2300
Ion Ratio Lower Upper
152 100
150 152.4 124.5 186.7
115 60.0 47.8 71.6



#2
1,4-Dioxane
Concen: 5.818 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

Tgt Ion: 88 Resp: 12154
Ion Ratio Lower Upper
88 100
43 20.4 16.9 25.3
58 48.1 39.0 58.4

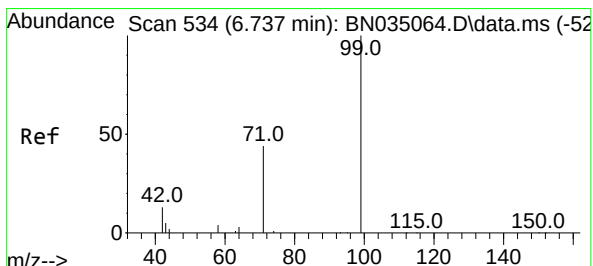
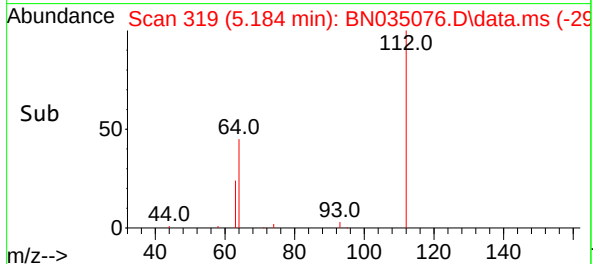
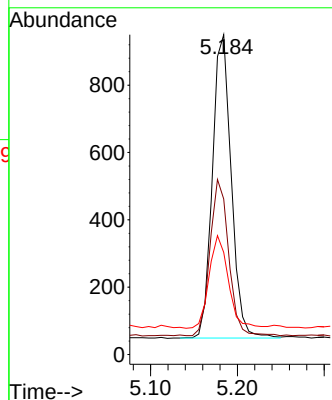
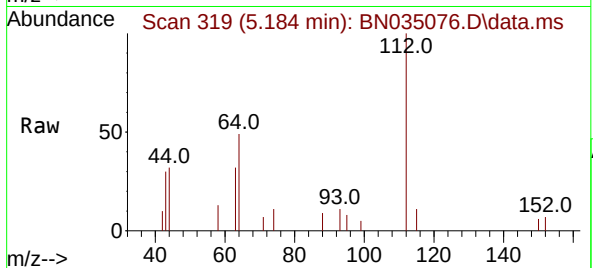




#4
2-Fluorophenol
Concen: 0.233 ng
RT: 5.184 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

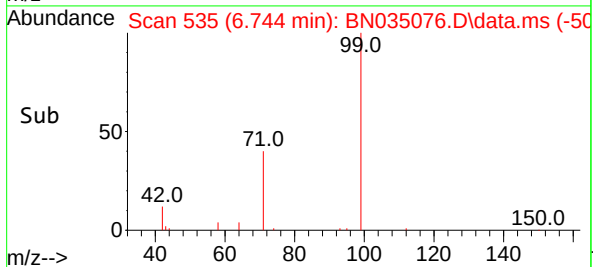
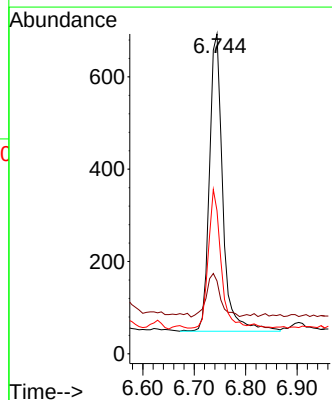
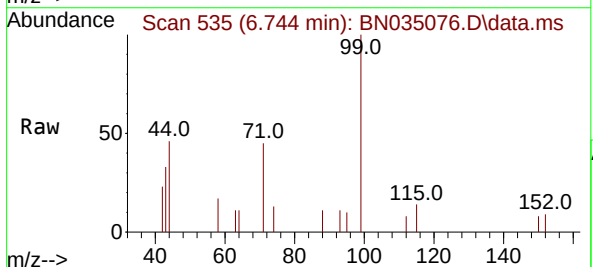
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107

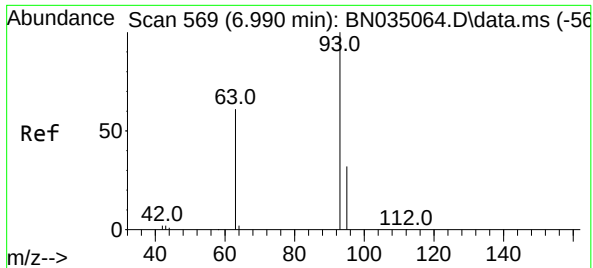
Tgt Ion:112 Resp: 1359
Ion Ratio Lower Upper
112 100
64 50.8 39.7 59.5
63 31.1 23.0 34.4



#5
Phenol-d6
Concen: 0.159 ng
RT: 6.744 min Scan# 535
Delta R.T. 0.007 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

Tgt Ion: 99 Resp: 1162
Ion Ratio Lower Upper
99 100
42 15.2 11.4 17.0
71 43.6 34.6 51.8

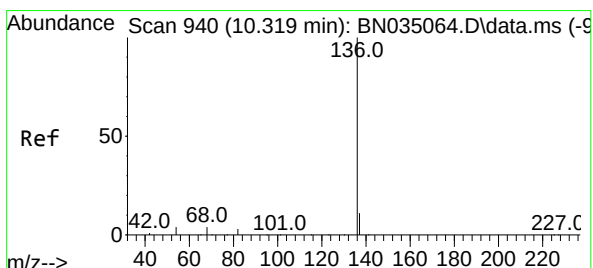
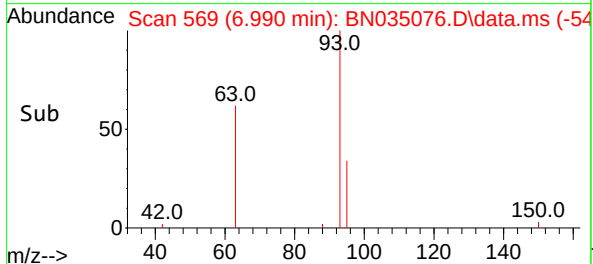
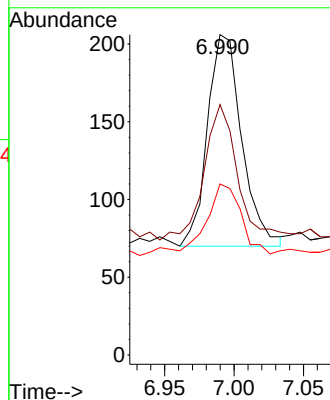
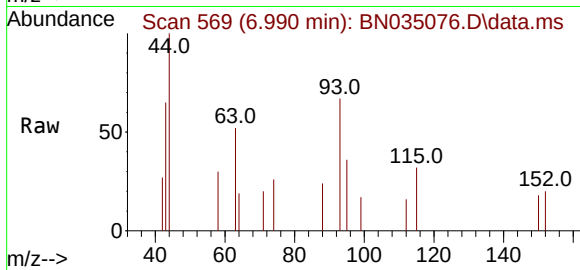




#6
bis(2-Chloroethyl)ether
Concen: 0.043 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

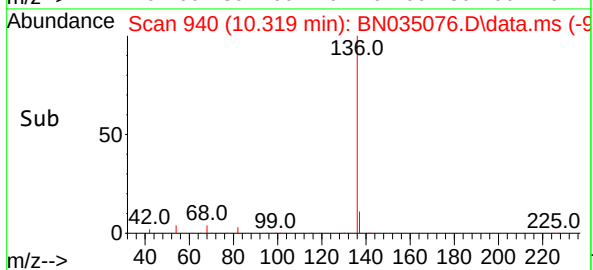
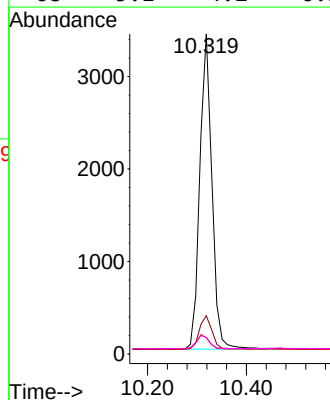
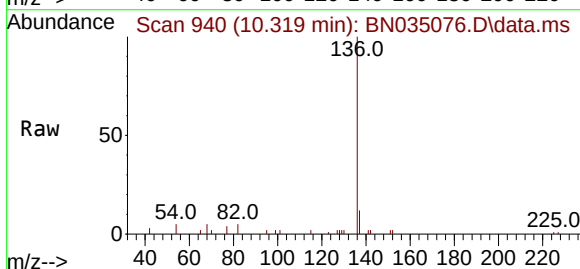
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107

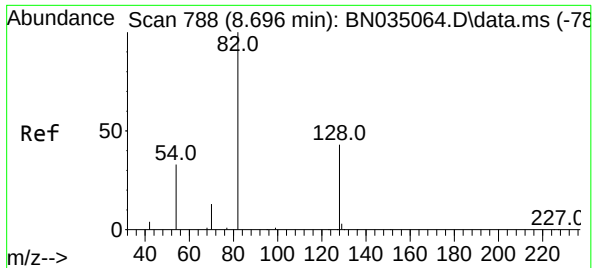
Tgt Ion:	93	Resp:	234
Ion	Ratio	Lower	Upper
93	100		
63	62.8	47.4	71.2
95	36.8	26.2	39.4



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

Tgt Ion:	136	Resp:	5817
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.8	14.8
54	5.1	4.0	6.0
68	5.1	4.2	6.2

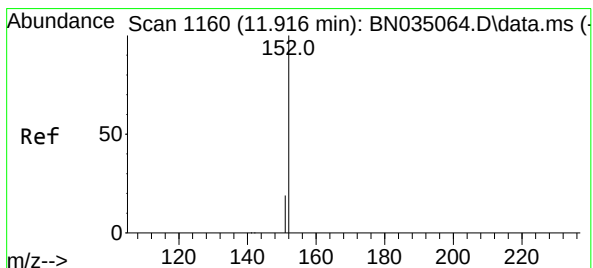
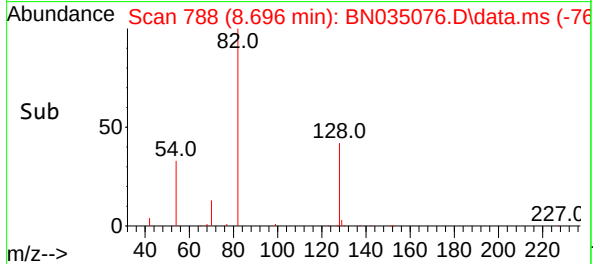
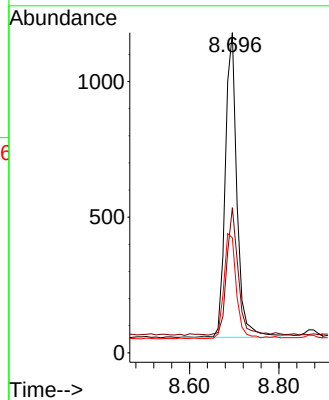
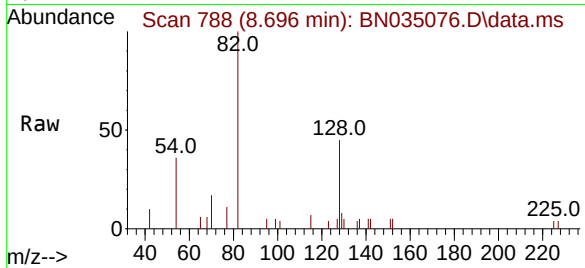




#8
Nitrobenzene-d5
Concen: 0.404 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

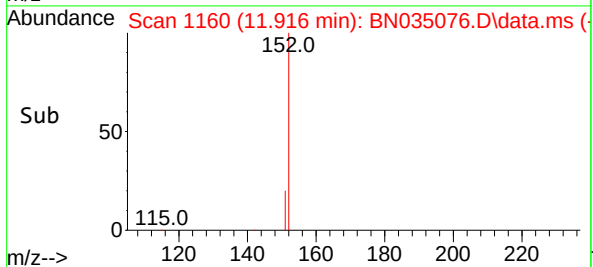
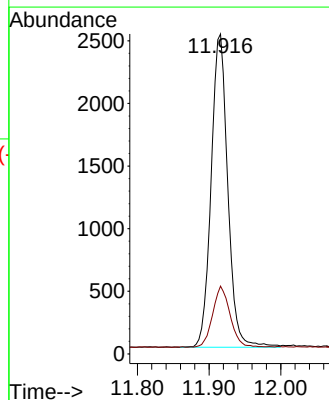
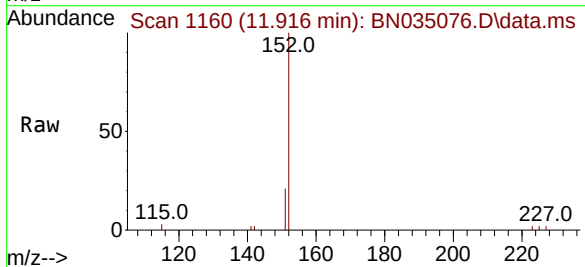
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107

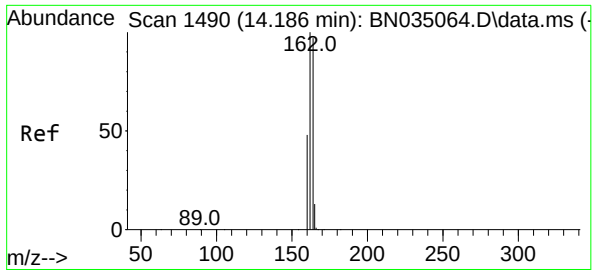
Tgt Ion:	82	Resp:	2048
Ion Ratio	Lower	Upper	
82	100		
128	45.3	36.5	54.7
54	35.9	28.7	43.1



#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 11.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

Tgt Ion:	152	Resp:	4029
Ion Ratio	Lower	Upper	
152	100		
151	20.6	16.2	24.4

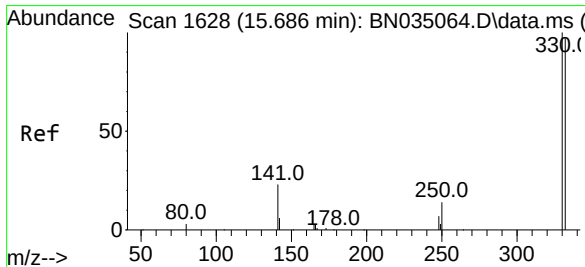
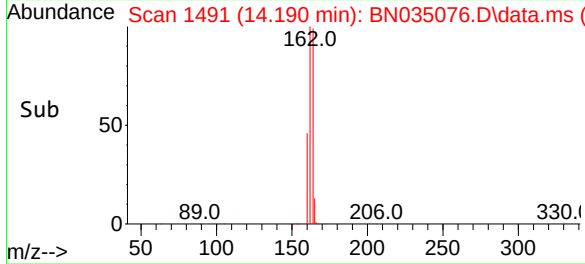
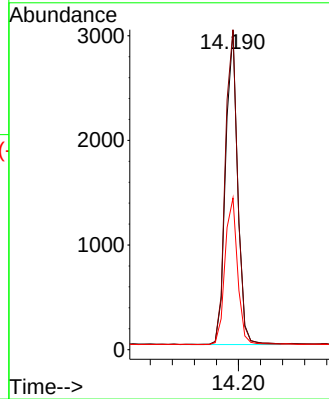
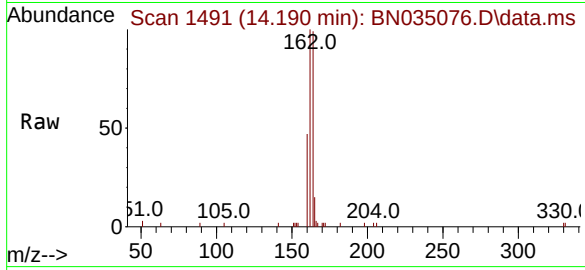




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

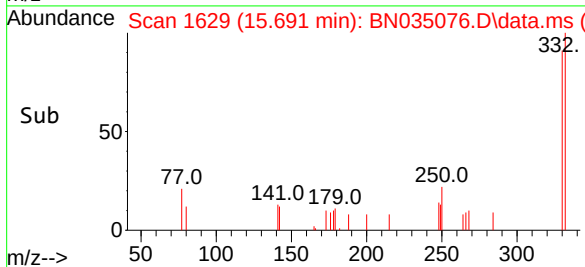
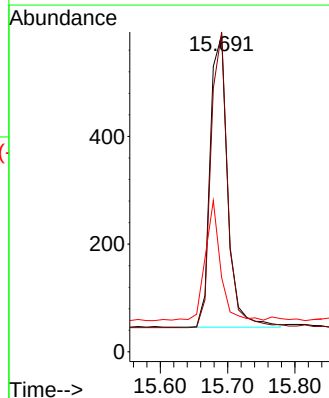
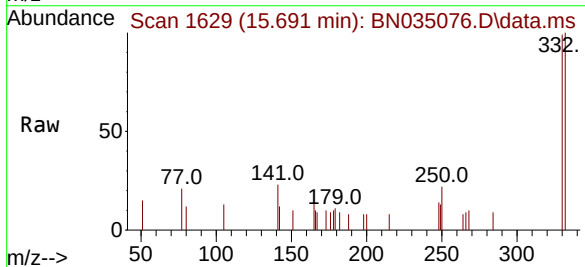
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107

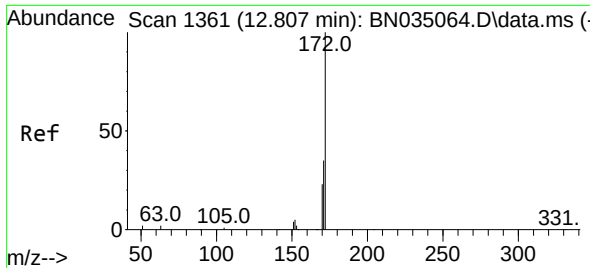
Tgt Ion:164 Resp: 4551
Ion Ratio Lower Upper
164 100
162 100.5 82.2 123.2
160 47.7 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.299 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

Tgt Ion:330 Resp: 980
Ion Ratio Lower Upper
330 100
332 97.6 76.9 115.3
141 36.0 29.6 44.4

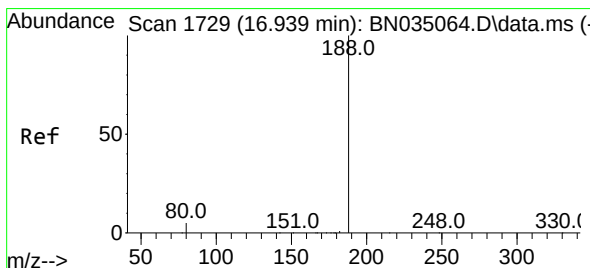
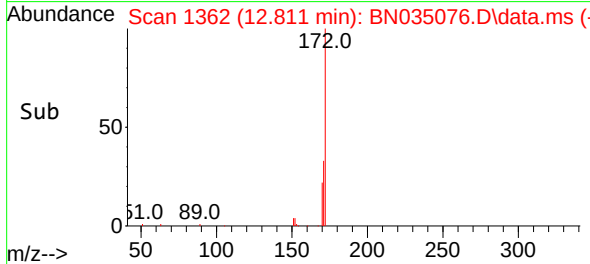
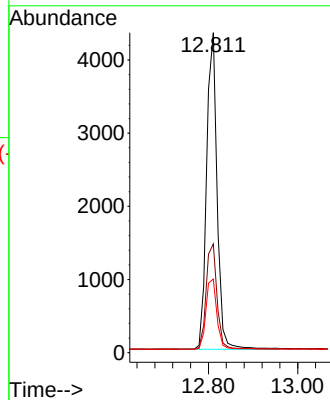
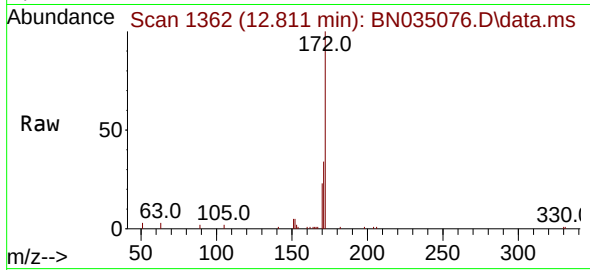




#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.811 min Scan# 1362
Delta R.T. 0.004 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

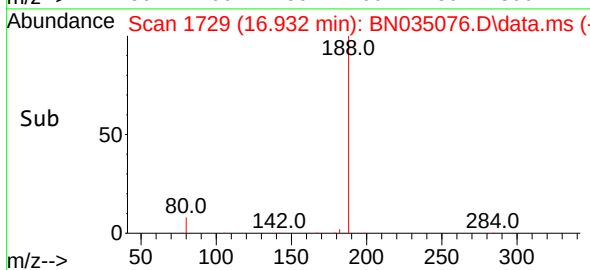
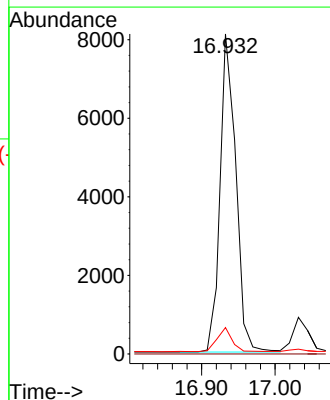
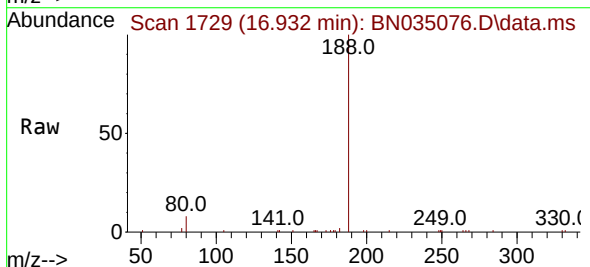
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107

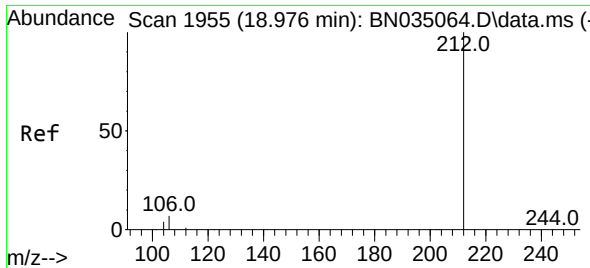
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.0	28.2	42.4
170	23.0	19.0	28.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.932 min Scan# 1729
Delta R.T. -0.007 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.2	4.3	6.5

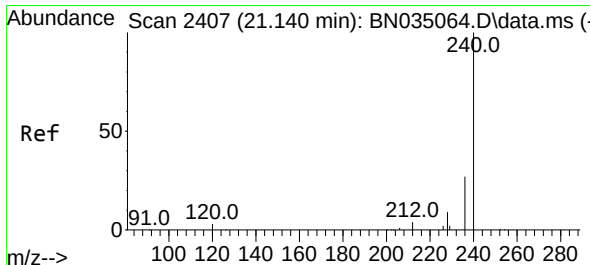
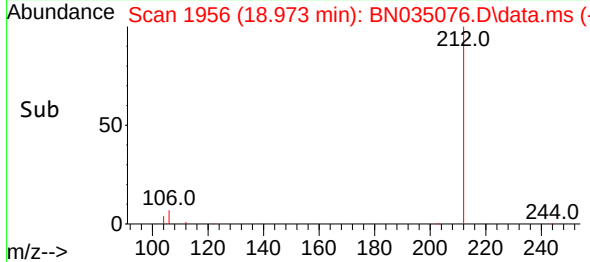
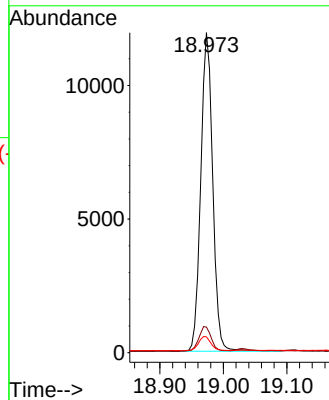
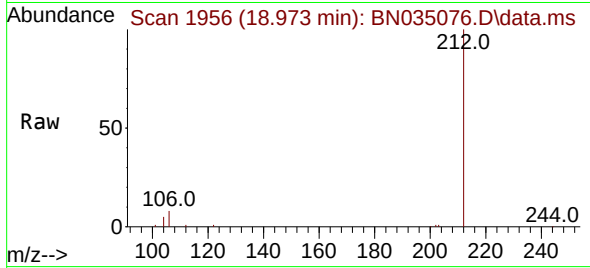




#27
Fluoranthene-d10
Concen: 0.422 ng
RT: 18.973 min Scan# 1955
Delta R.T. -0.002 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

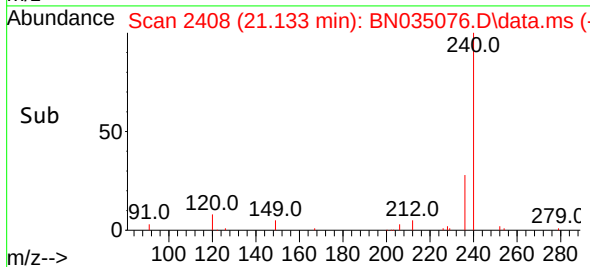
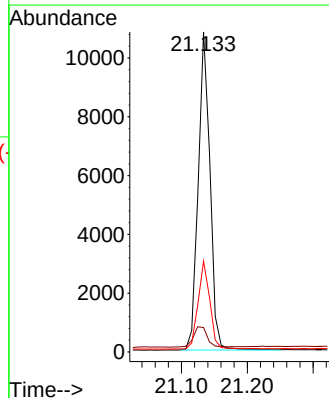
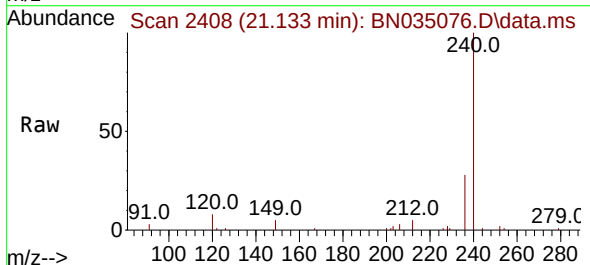
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107

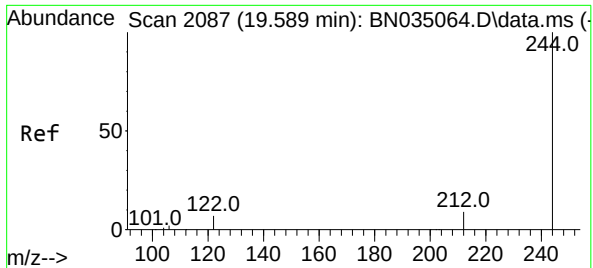
Tgt Ion	Ratio	Lower	Upper
212	100		
106	7.8	6.0	9.0
104	4.6	3.5	5.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

Tgt Ion	Ratio	Lower	Upper
240	100		
120	7.6	3.8	5.6
236	28.4	22.2	33.2

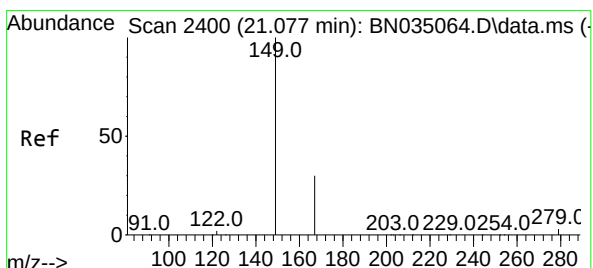
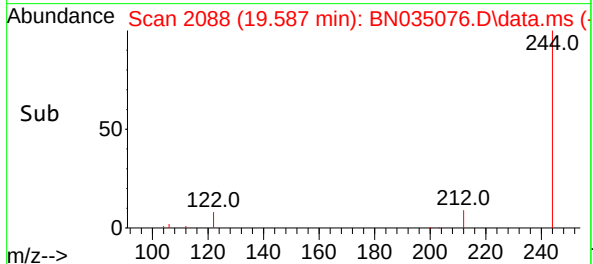
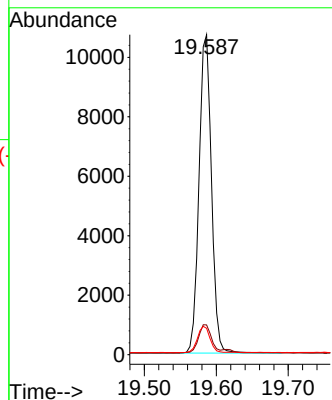
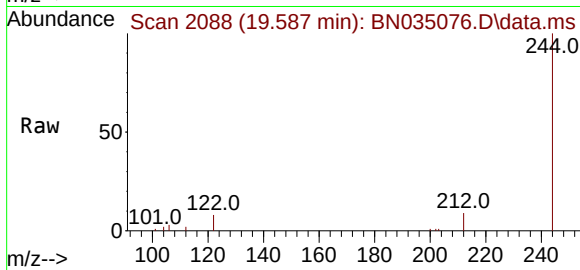




#31
Terphenyl-d14
Concen: 0.459 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

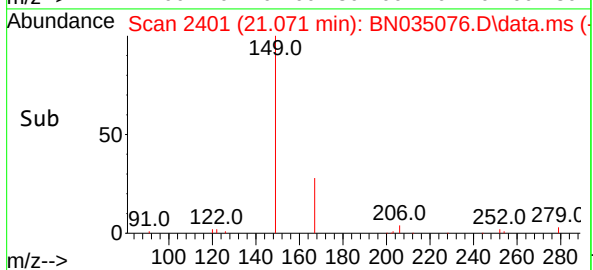
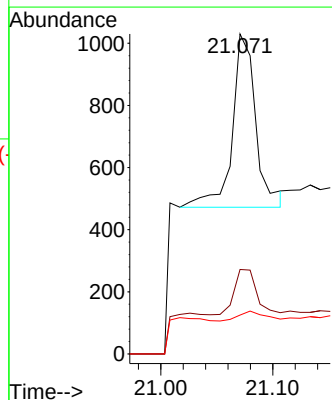
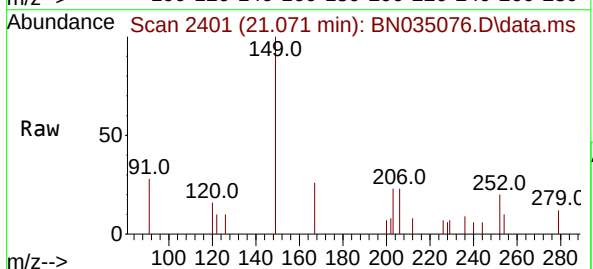
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107

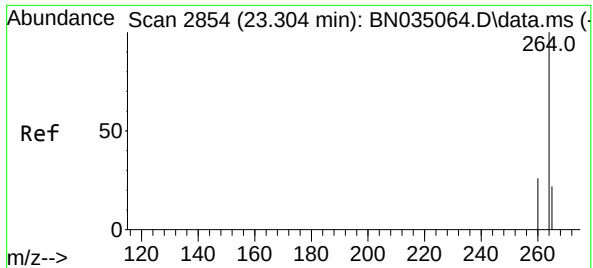
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.6	11.4
122	8.2	6.1	9.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.033 ng
RT: 21.071 min Scan# 2401
Delta R.T. -0.007 min
Lab File: BN035076.D
Acq: 13 Nov 2024 21:01

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.7	23.2	34.8
279	0.0	3.2	4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.300 min Scan# 21

Delta R.T. -0.004 min

Lab File: BN035076.D

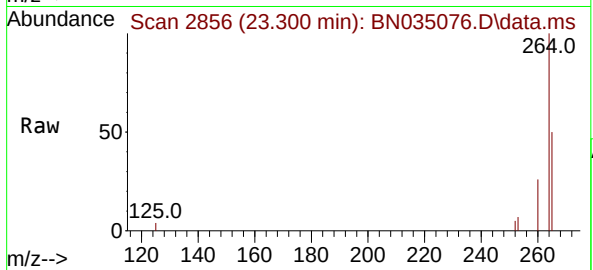
Acq: 13 Nov 2024 21:01

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20241107



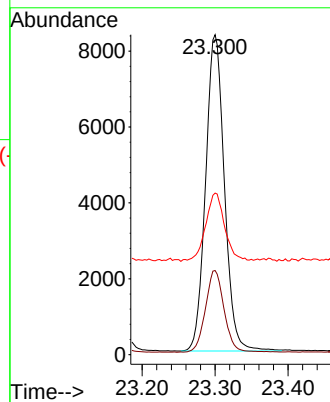
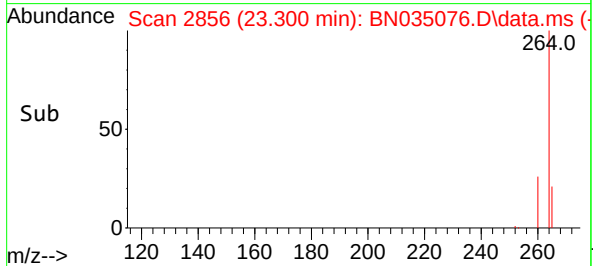
Tgt Ion:264 Resp: 14946

Ion Ratio Lower Upper

264 100

260 26.3 20.9 31.3

265 50.5 35.4 53.2



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/07/24
Project:	CTO WE13	Date Received:	11/07/24
Client Sample ID:	RW7-SP100-20241107DL	SDG No.:	P4773
Lab Sample ID:	P4773-01DL	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035093.D	2	11/08/24 11:30	11/14/24 18:23	PB164785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.40	DQ	0.14	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		110%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2840	7.553				
1146-65-2	Naphthalene-d8	7380	10.319				
15067-26-2	Acenaphthene-d10	5670	14.19				
1517-22-2	Phenanthrene-d10	13800	16.932				
1719-03-5	Chrysene-d12	13500	21.133				
1520-96-3	Perylene-d12	13300	23.303				

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\BN111424\
Data File : BN035093.D
Acq On : 14 Nov 2024 18:23
Operator : RC/JU
Sample : P4773-01DL 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107DL

Quant Time: Nov 15 01:07:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

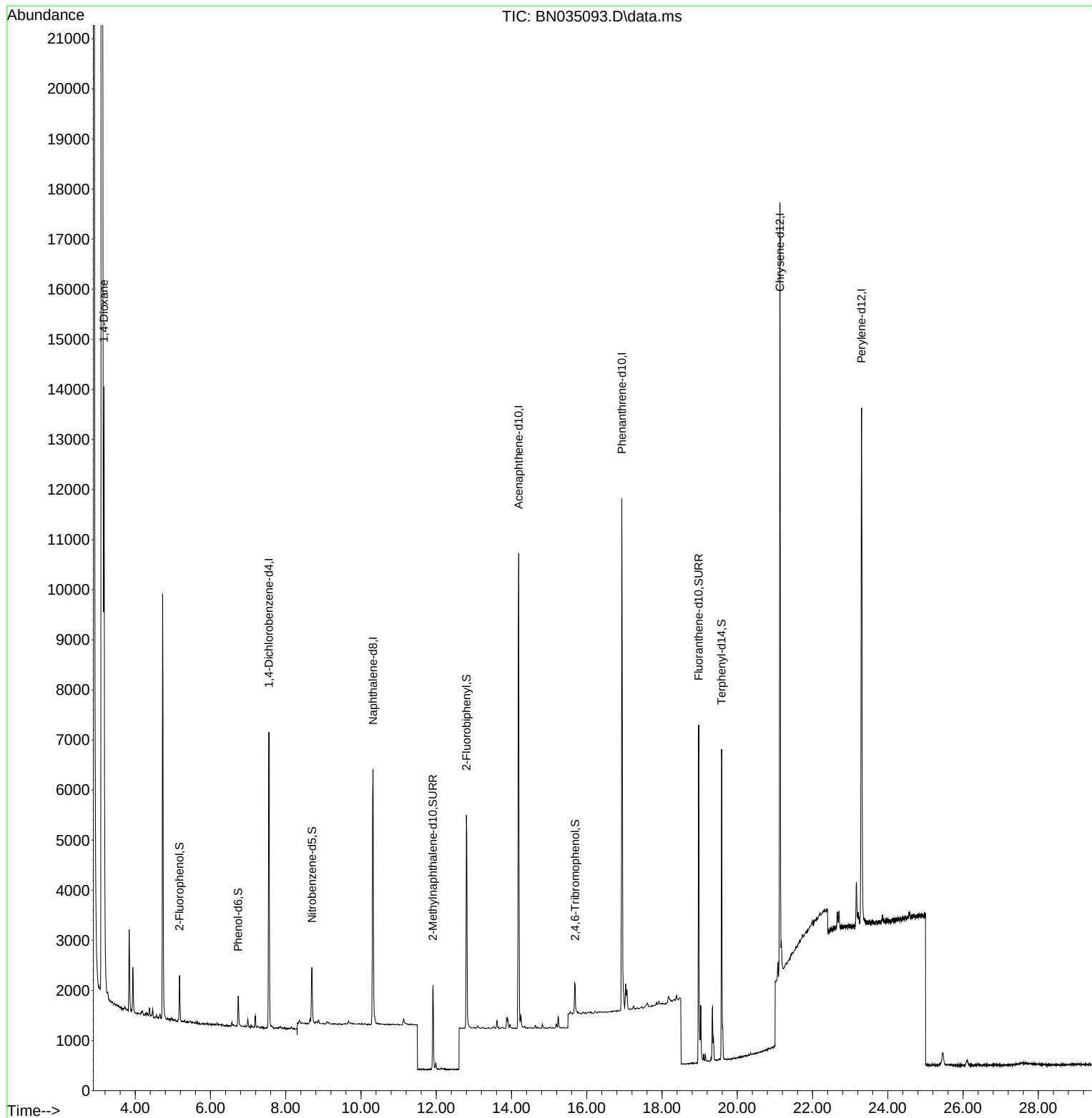
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2839	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	7379	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	5672	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	13767	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	13450	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	13263	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	740	0.103	ng	0.00
5) Phenol-d6	6.737	99	596	0.066	ng	0.00
8) Nitrobenzene-d5	8.696	82	1147	0.179	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	2359	0.179	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	455	0.111	ng	0.00
15) 2-Fluorobiphenyl	12.800	172	4192	0.182	ng	0.00
27) Fluoranthene-d10	18.973	212	7762	0.184	ng	0.00
31) Terphenyl-d14	19.582	244	6219	0.220	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.169	88	6958	2.698	ng	Qvalue 98

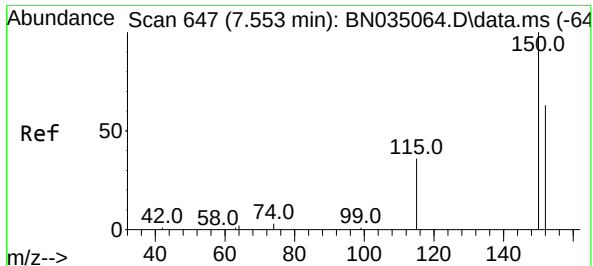
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035093.D
Acq On : 14 Nov 2024 18:23
Operator : RC/JU
Sample : P4773-01DL 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107DL

Quant Time: Nov 15 01:07:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

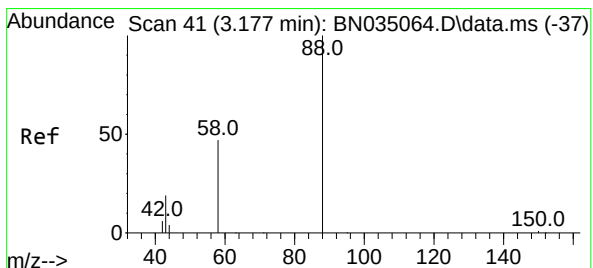
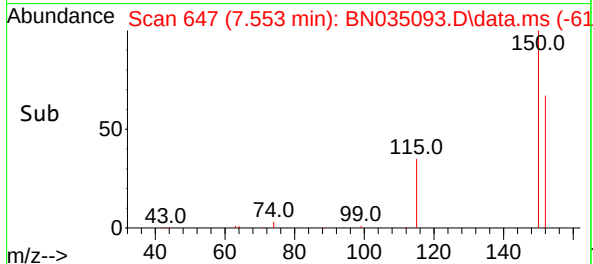
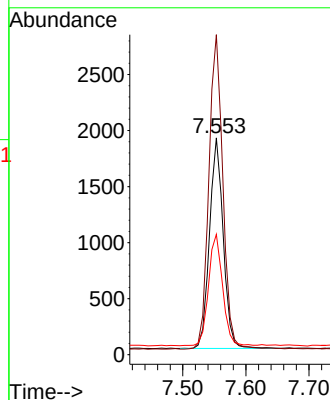
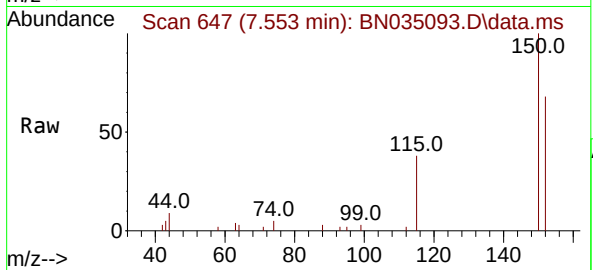




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035093.D
Acq: 14 Nov 2024 18:23

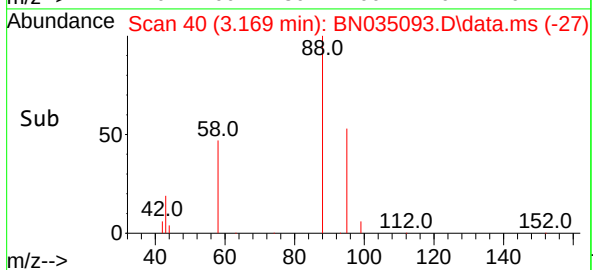
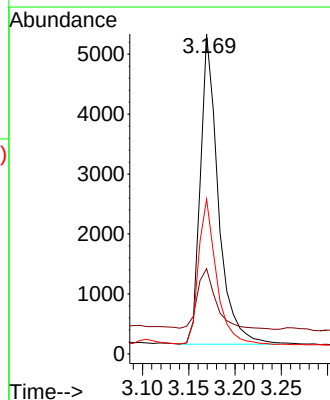
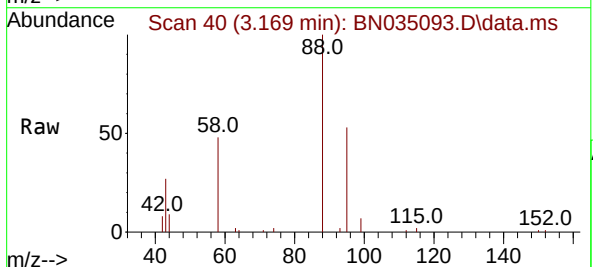
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107DL

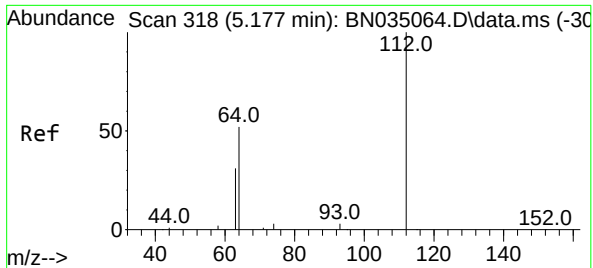
Tgt Ion:152 Resp: 2839
Ion Ratio Lower Upper
152 100
150 147.6 124.5 186.7
115 55.5 47.8 71.6



#2
1,4-Dioxane
Concen: 2.698 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035093.D
Acq: 14 Nov 2024 18:23

Tgt Ion: 88 Resp: 6958
Ion Ratio Lower Upper
88 100
43 20.6 16.9 25.3
58 46.9 39.0 58.4

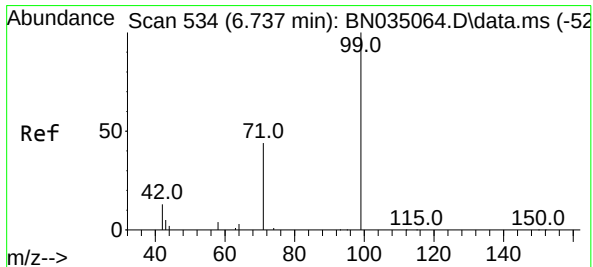
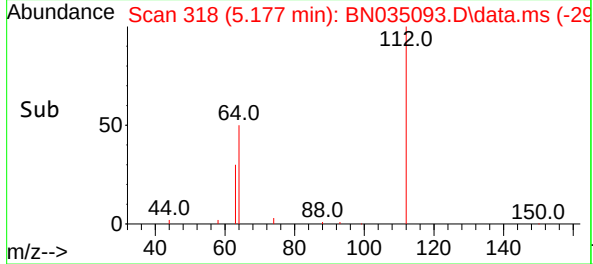
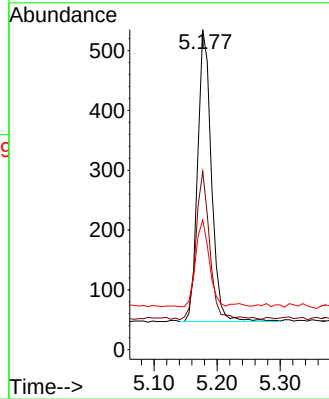
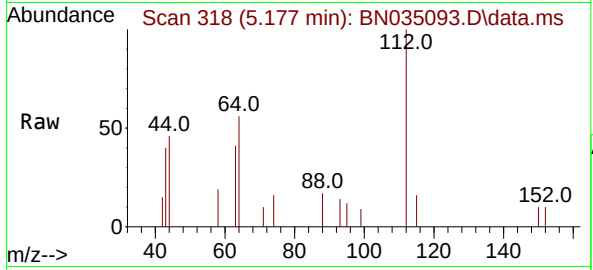




#4
2-Fluorophenol
Concen: 0.103 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035093.D
Acq: 14 Nov 2024 18:23

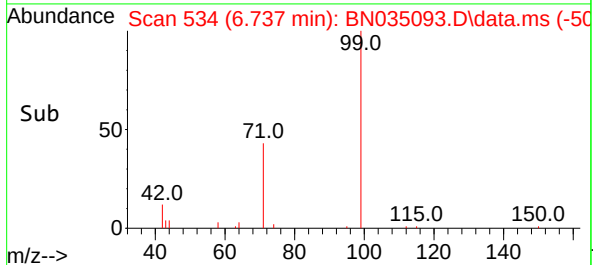
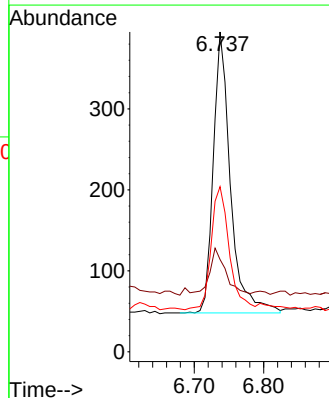
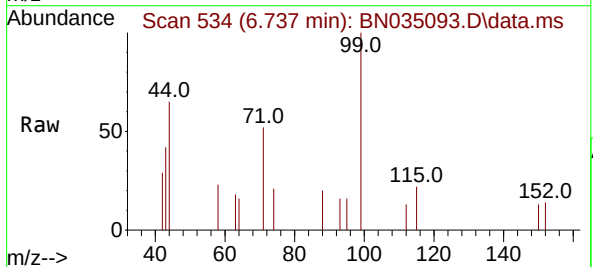
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107DL

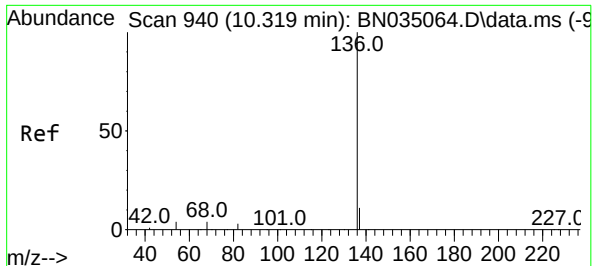
Tgt Ion:	112	Resp:	740
Ion	Ratio	Lower	Upper
112	100		
64	51.1	39.7	59.5
63	29.1	23.0	34.4



#5
Phenol-d6
Concen: 0.066 ng
RT: 6.737 min Scan# 534
Delta R.T. -0.000 min
Lab File: BN035093.D
Acq: 14 Nov 2024 18:23

Tgt Ion:	99	Resp:	596
Ion	Ratio	Lower	Upper
99	100		
42	14.4	11.4	17.0
71	45.8	34.6	51.8

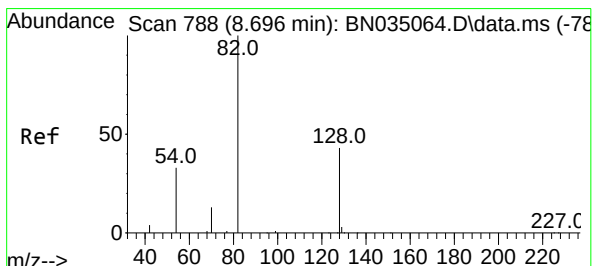
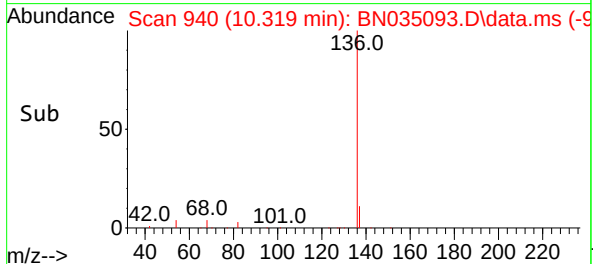
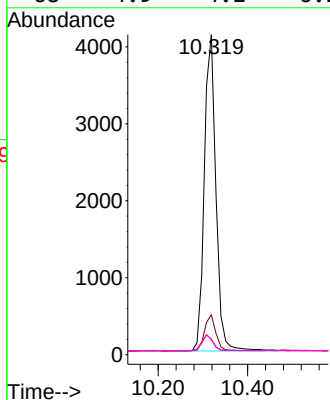
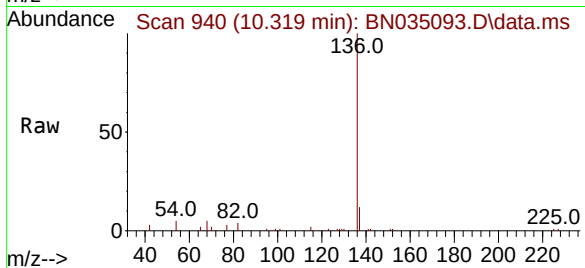




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035093.D
Acq: 14 Nov 2024 18:23

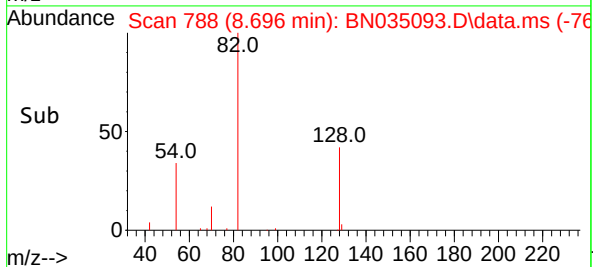
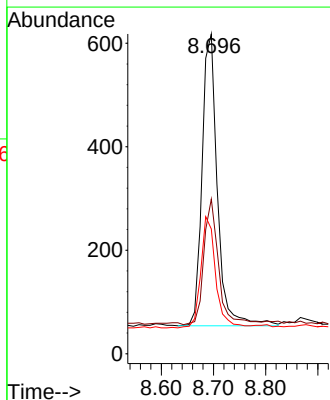
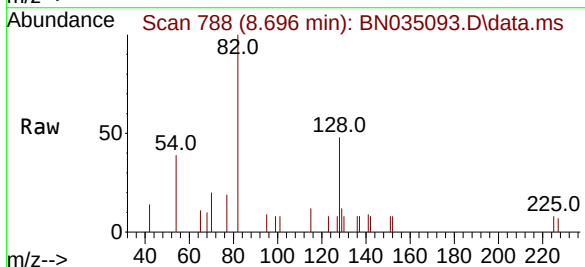
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107DL

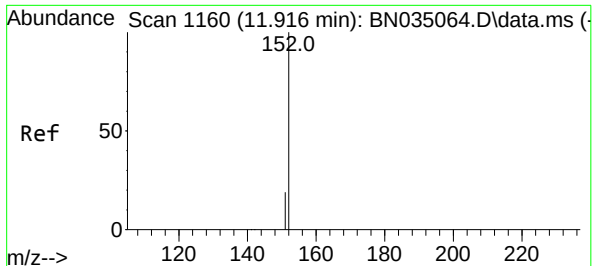
Tgt Ion:	136	Resp:	7379
Ion	Ratio	Lower	Upper
136	100		
137	12.5	9.8	14.8
54	4.7	4.0	6.0
68	4.9	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.179 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035093.D
Acq: 14 Nov 2024 18:23

Tgt Ion:	82	Resp:	1147
Ion	Ratio	Lower	Upper
82	100		
128	48.4	36.5	54.7
54	39.0	28.7	43.1

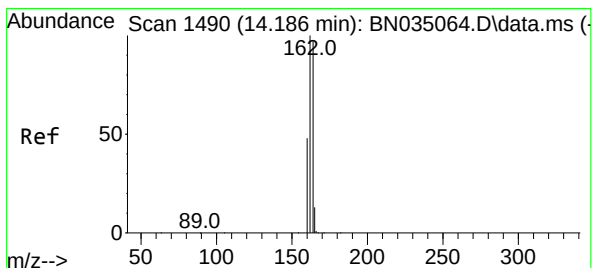
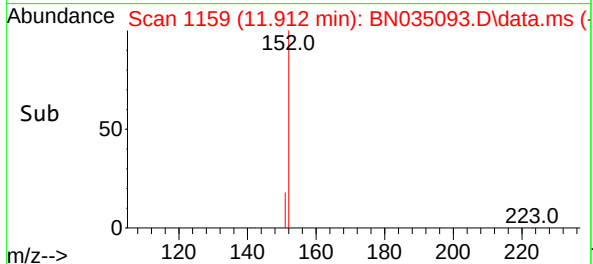
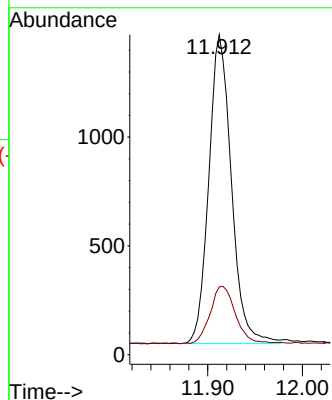
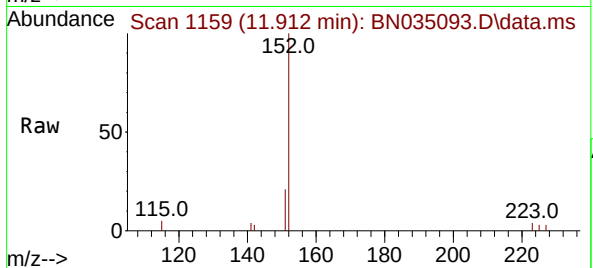




#11
2-Methylnaphthalene-d10
Concen: 0.179 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035093.D
Acq: 14 Nov 2024 18:23

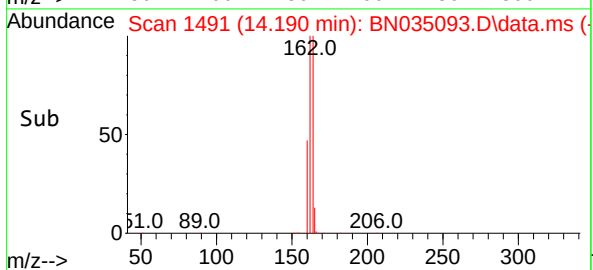
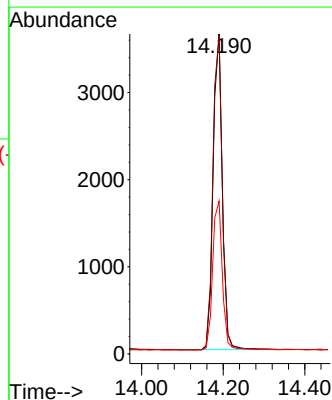
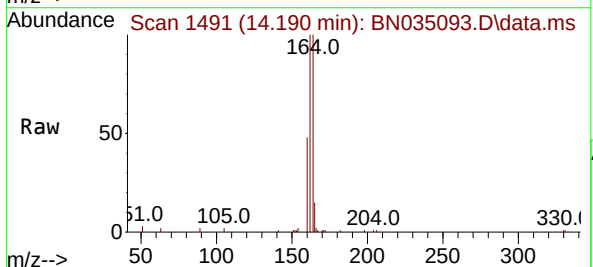
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107DL

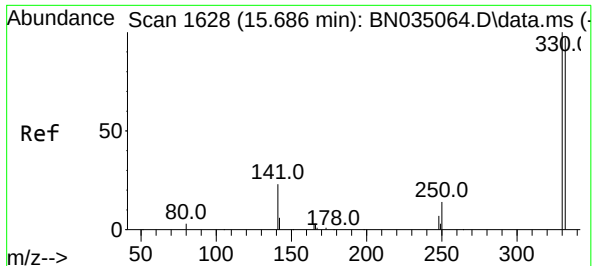
Tgt Ion:152 Resp: 2359
Ion Ratio Lower Upper
152 100
151 20.7 16.2 24.4



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035093.D
Acq: 14 Nov 2024 18:23

Tgt Ion:164 Resp: 5672
Ion Ratio Lower Upper
164 100
162 99.6 82.2 123.2
160 47.8 40.2 60.4





#14

2,4,6-Tribromophenol

Concen: 0.111 ng

RT: 15.691 min Scan# 1629

Delta R.T. 0.005 min

Lab File: BN035093.D

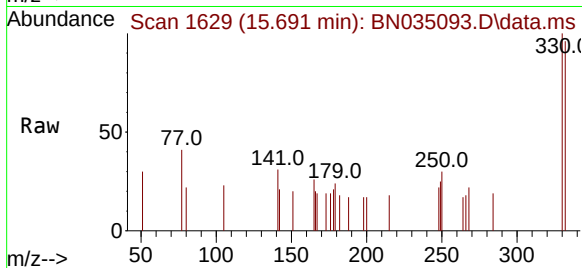
Acq: 14 Nov 2024 18:23

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20241107DL



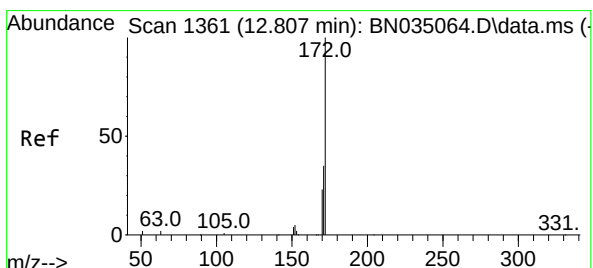
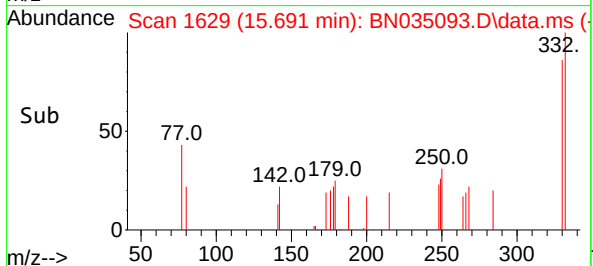
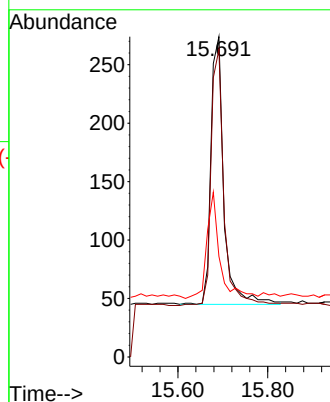
Tgt Ion:330 Resp: 455

Ion Ratio Lower Upper

330 100

332 92.3 76.9 115.3

141 39.8 29.6 44.4



#15

2-Fluorobiphenyl

Concen: 0.182 ng

RT: 12.800 min Scan# 1361

Delta R.T. -0.007 min

Lab File: BN035093.D

Acq: 14 Nov 2024 18:23

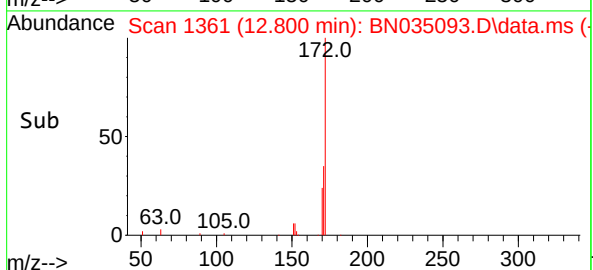
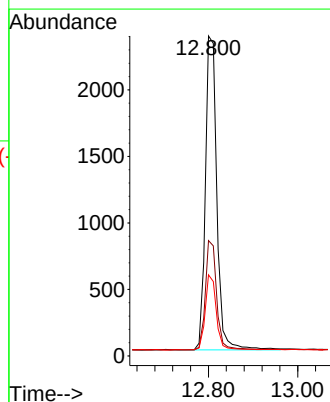
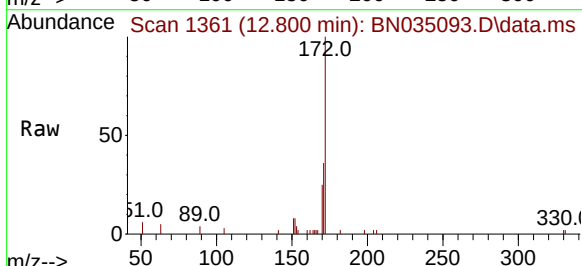
Tgt Ion:172 Resp: 4192

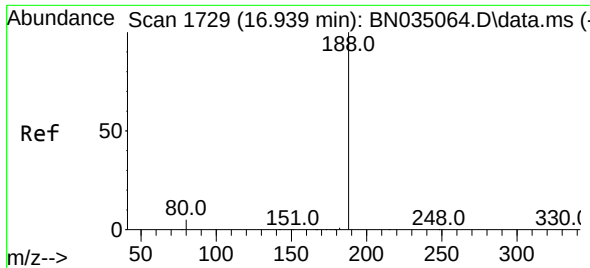
Ion Ratio Lower Upper

172 100

171 36.0 28.2 42.4

170 25.4 19.0 28.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.932 min Scan# 11

Delta R.T. -0.007 min

Lab File: BN035093.D

Acq: 14 Nov 2024 18:23

Instrument :

BNA_N

ClientSampleId :

RW7-SP100-20241107DL

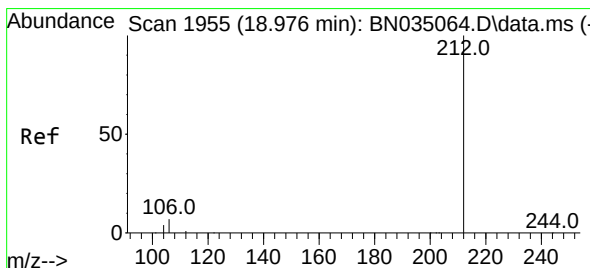
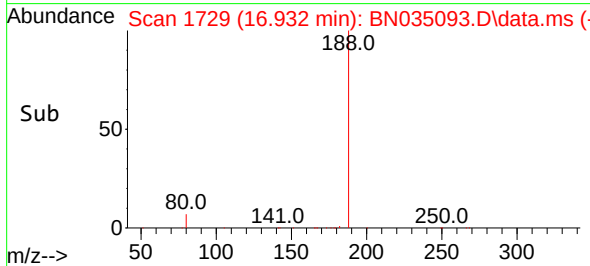
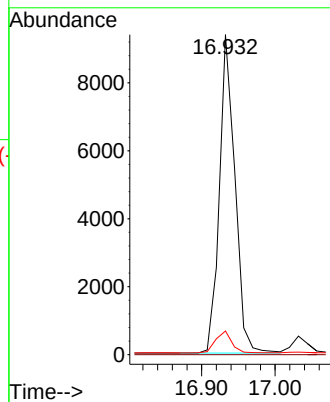
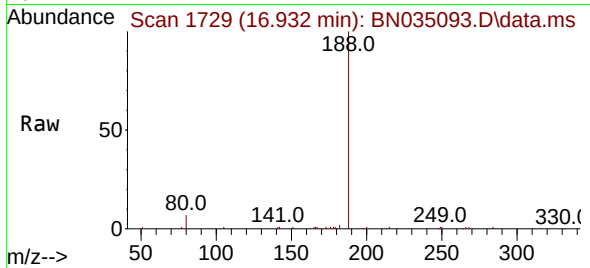
Tgt Ion:188 Resp: 13767

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.4 4.3 6.5#



#27

Fluoranthene-d10

Concen: 0.184 ng

RT: 18.973 min Scan# 1956

Delta R.T. -0.002 min

Lab File: BN035093.D

Acq: 14 Nov 2024 18:23

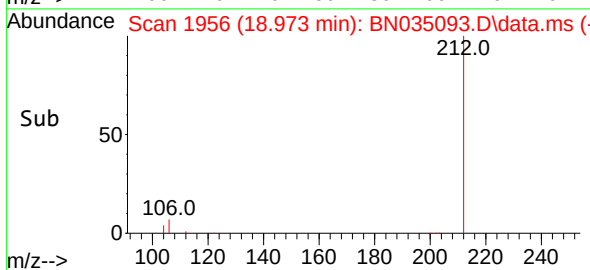
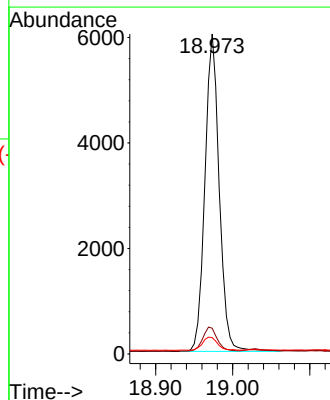
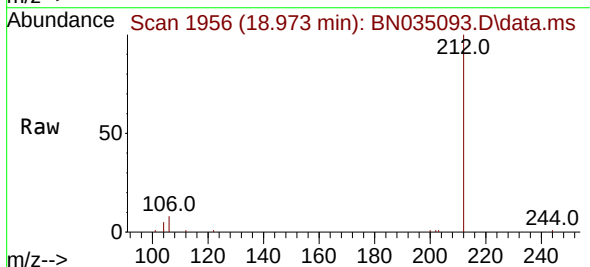
Tgt Ion:212 Resp: 7762

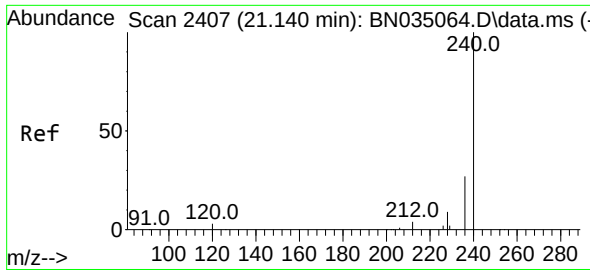
Ion Ratio Lower Upper

212 100

106 7.5 6.0 9.0

104 4.2 3.5 5.3

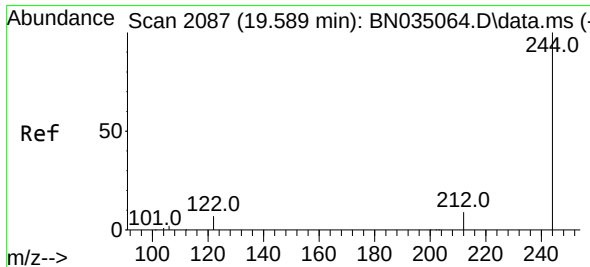
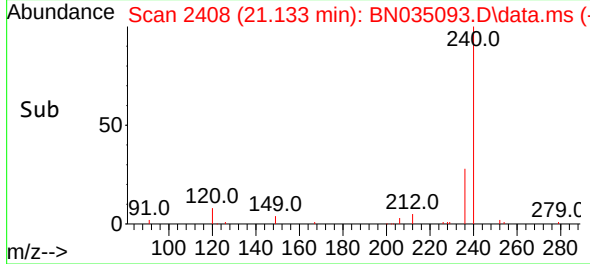
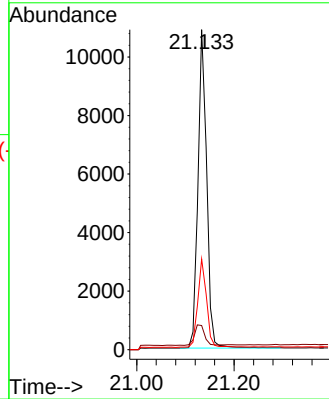
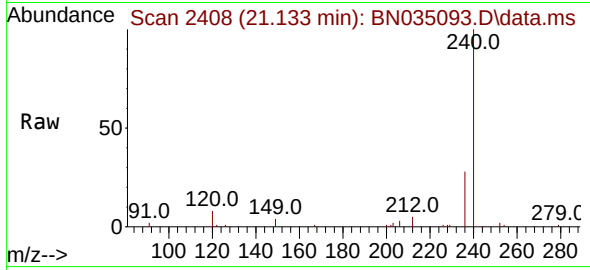




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035093.D
Acq: 14 Nov 2024 18:23

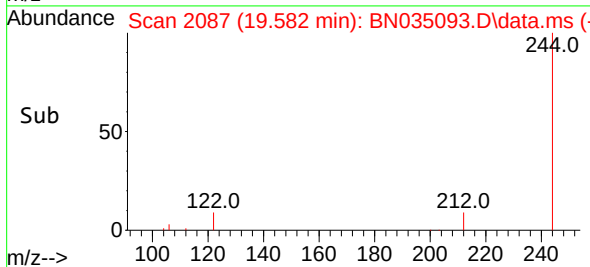
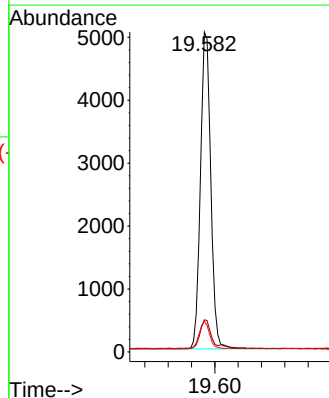
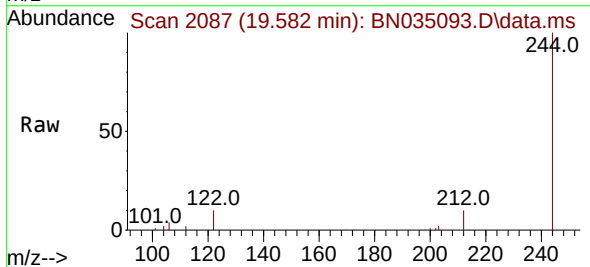
Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107DL

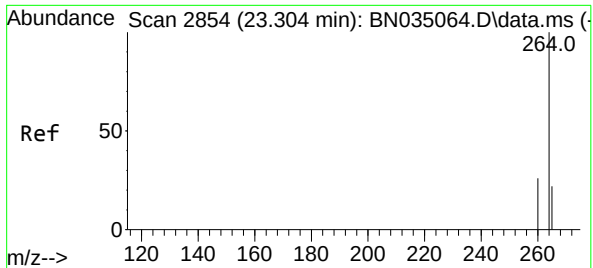
Tgt Ion:240 Resp: 13450
Ion Ratio Lower Upper
240 100
120 7.5 3.8 5.6#
236 28.4 22.2 33.2



#31
Terphenyl-d14
Concen: 0.220 ng
RT: 19.582 min Scan# 2087
Delta R.T. -0.007 min
Lab File: BN035093.D
Acq: 14 Nov 2024 18:23

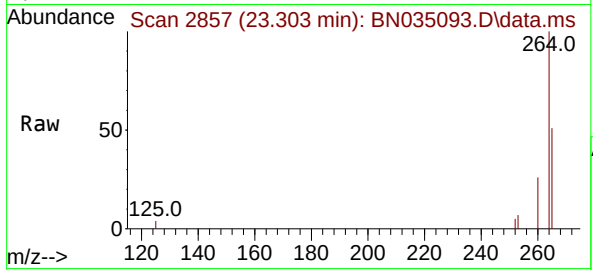
Tgt Ion:244 Resp: 6219
Ion Ratio Lower Upper
244 100
212 10.0 7.6 11.4
122 9.6 6.1 9.1#



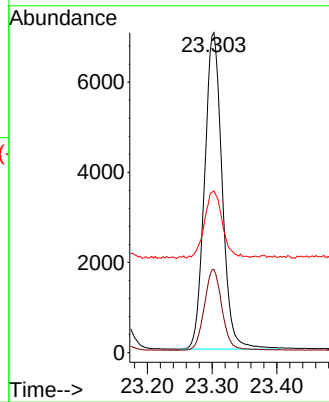
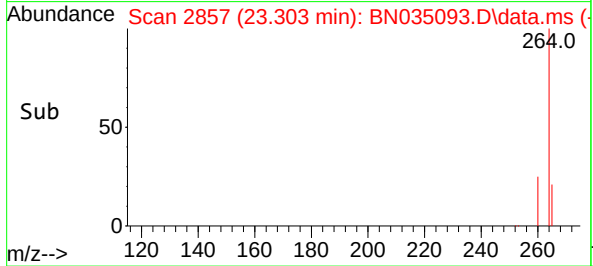


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 21
Delta R.T. -0.001 min
Lab File: BN035093.D
Acq: 14 Nov 2024 18:23

Instrument :
BNA_N
ClientSampleId :
RW7-SP100-20241107DL



Tgt Ion:264 Resp: 13263
Ion Ratio Lower Upper
264 100
260 26.0 20.9 31.3
265 50.5 35.4 53.2



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	11/07/24
Project:	CTO WE13	Date Received:	11/07/24
Client Sample ID:	RW7-SP201-20241107	SDG No.:	P4773
Lab Sample ID:	P4773-02	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035077.D	1	11/08/24 11:30	11/13/24 21:37	PB164785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	UQ	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		98%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		103%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		115%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2280	7.553				
1146-65-2	Naphthalene-d8	5710	10.319				
15067-26-2	Acenaphthene-d10	4450	14.186				
1517-22-2	Phenanthrene-d10	11800	16.939				
1719-03-5	Chrysene-d12	12600	21.131				
1520-96-3	Perylene-d12	13300	23.298				

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\BN111324\
Data File : BN035077.D
Acq On : 13 Nov 2024 21:37
Operator : RC/JU
Sample : P4773-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241107

Quant Time: Nov 14 02:07:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

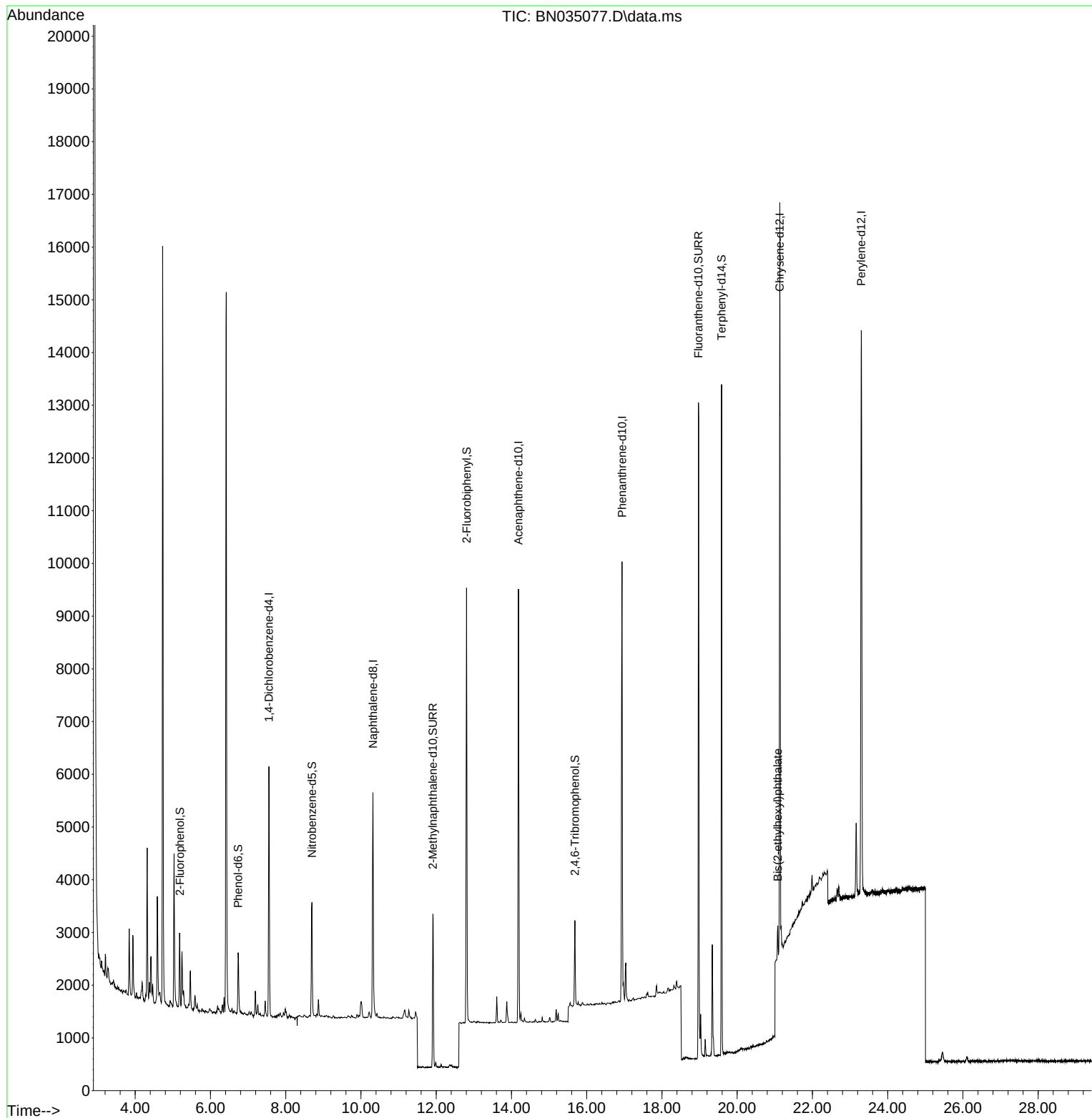
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2283	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	5712	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	4446	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	11812	0.400	ng	0.00
29) Chrysene-d12	21.131	240	12589	0.400	ng	# 0.00
35) Perylene-d12	23.298	264	13332	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.184	112	1176	0.203	ng	0.00
5) Phenol-d6	6.737	99	1021	0.141	ng	0.00
8) Nitrobenzene-d5	8.696	82	2048	0.412	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	4002	0.393	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	942	0.294	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	6972	0.386	ng	0.00
27) Fluoranthene-d10	18.971	212	14815	0.409	ng	0.00
31) Terphenyl-d14	19.584	244	12192	0.462	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.077	149	582	0.025	ng	# 96

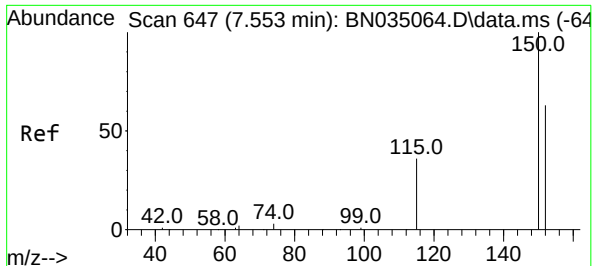
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035077.D
Acq On : 13 Nov 2024 21:37
Operator : RC/JU
Sample : P4773-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241107

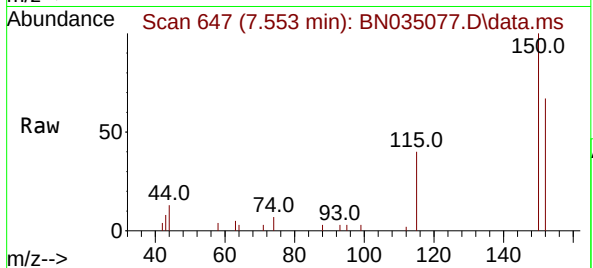
Quant Time: Nov 14 02:07:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration



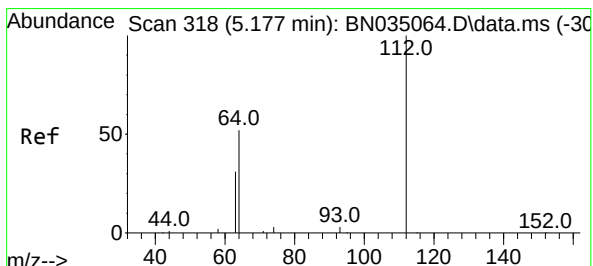
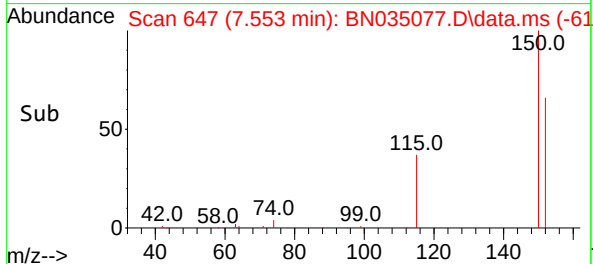
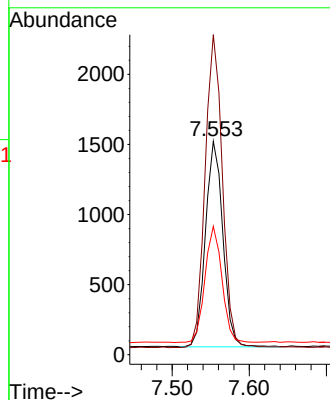


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035077.D
Acq: 13 Nov 2024 21:37

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241107

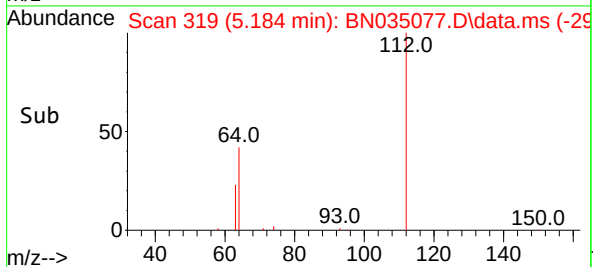
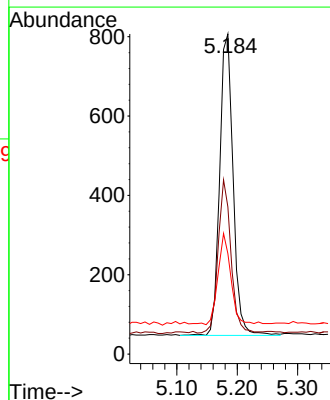
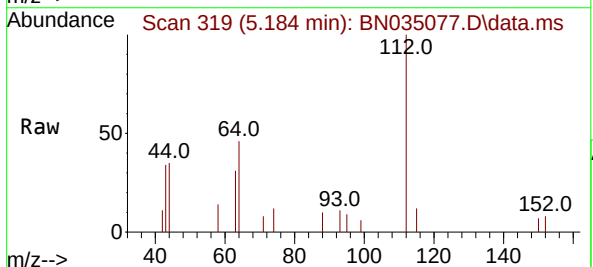


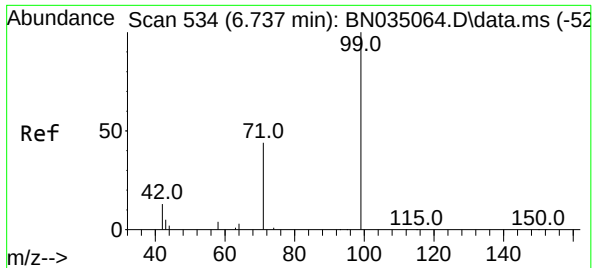
Tgt Ion:152 Resp: 2283
Ion Ratio Lower Upper
152 100
150 149.9 124.5 186.7
115 60.1 47.8 71.6



#4
2-Fluorophenol
Concen: 0.203 ng
RT: 5.184 min Scan# 319
Delta R.T. 0.007 min
Lab File: BN035077.D
Acq: 13 Nov 2024 21:37

Tgt Ion:112 Resp: 1176
Ion Ratio Lower Upper
112 100
64 48.3 39.7 59.5
63 28.5 23.0 34.4

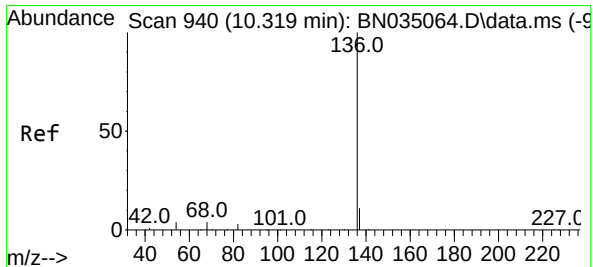
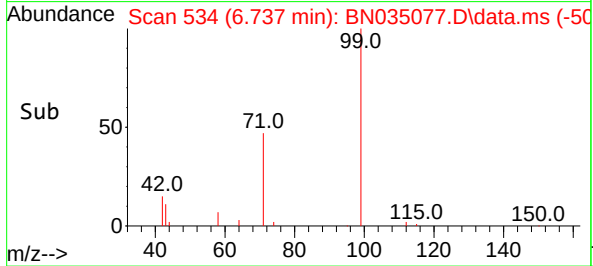
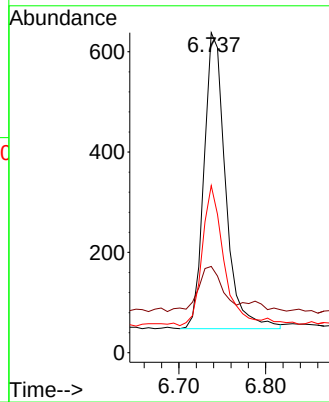
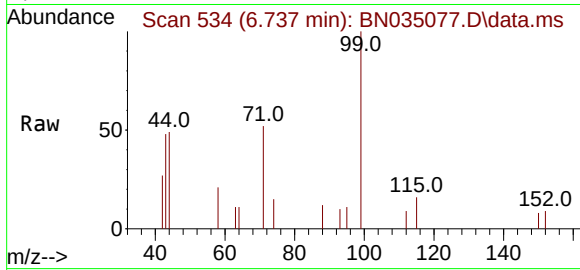




#5
Phenol-d6
Concen: 0.141 ng
RT: 6.737 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035077.D
Acq: 13 Nov 2024 21:37

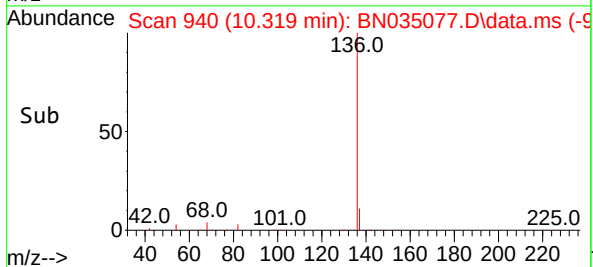
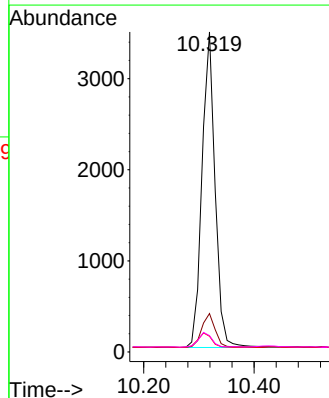
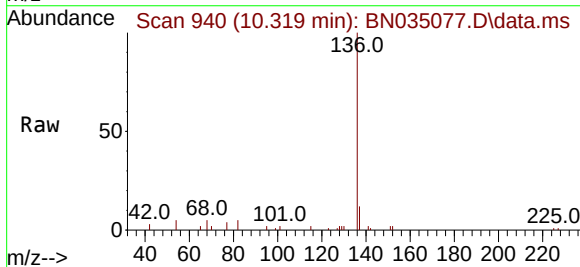
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241107

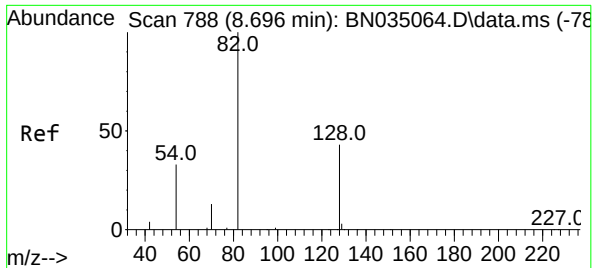
Tgt Ion:	99	Resp:	1021
Ion	Ratio	Lower	Upper
99	100		
42	17.2	11.4	17.0#
71	49.2	34.6	51.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN035077.D
Acq: 13 Nov 2024 21:37

Tgt Ion:	136	Resp:	5712
Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.8	14.8
54	4.9	4.0	6.0
68	5.1	4.2	6.2

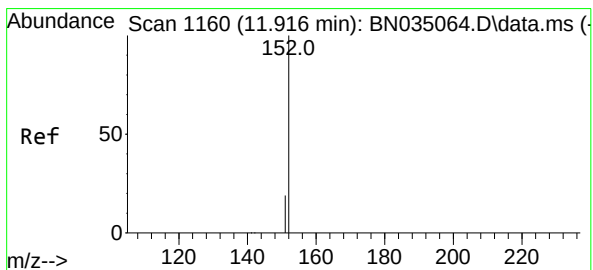
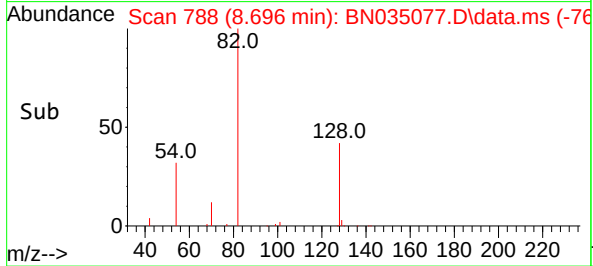
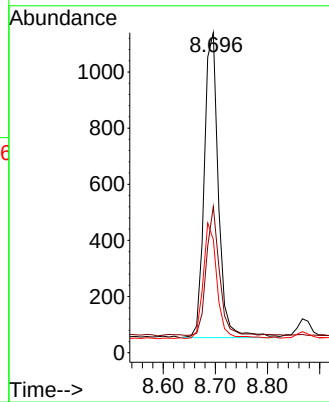
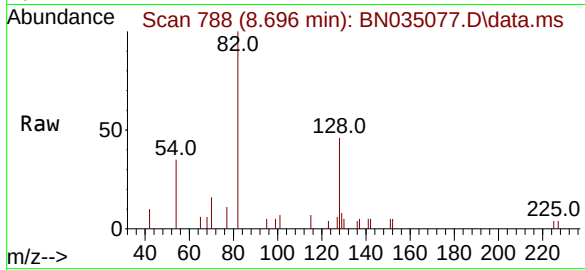




#8
Nitrobenzene-d5
Concen: 0.412 ng
RT: 8.696 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN035077.D
Acq: 13 Nov 2024 21:37

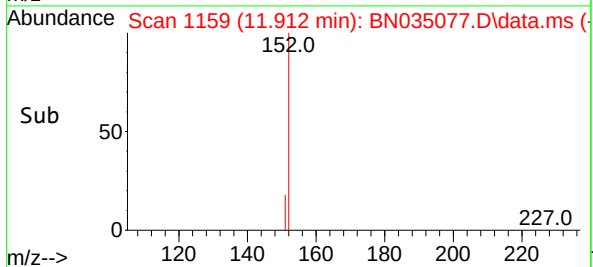
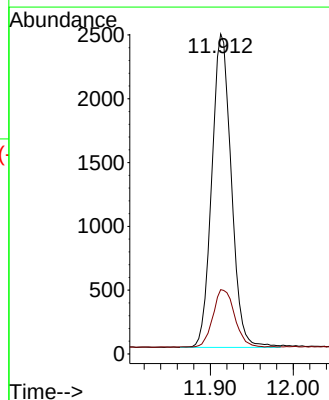
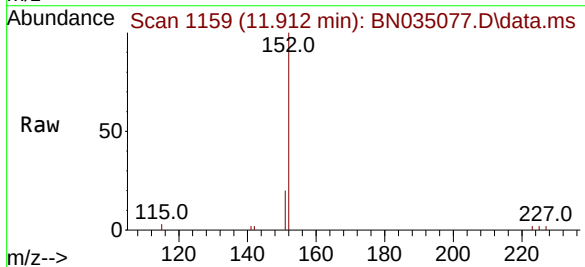
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241107

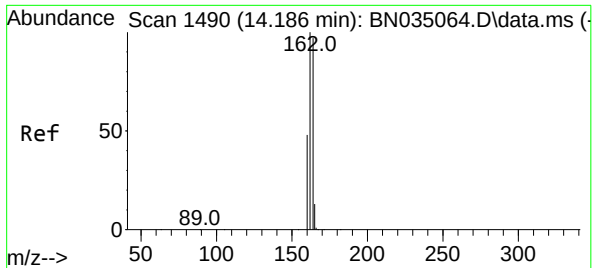
Tgt Ion:	82	Resp:	2048
Ion	Ratio	Lower	Upper
82	100		
128	45.7	36.5	54.7
54	35.4	28.7	43.1



#11
2-Methylnaphthalene-d10
Concen: 0.393 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035077.D
Acq: 13 Nov 2024 21:37

Tgt Ion:	152	Resp:	4002
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.4

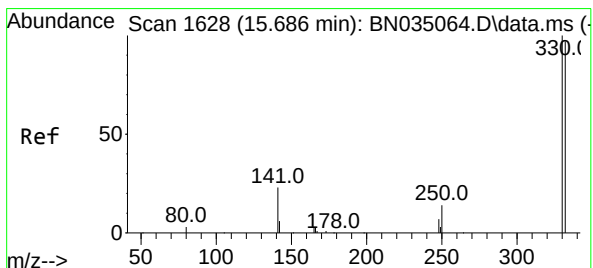
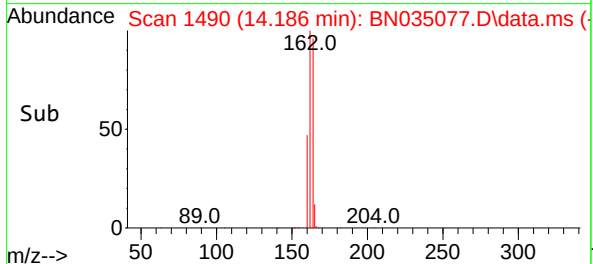
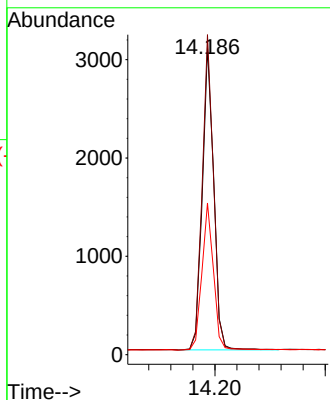
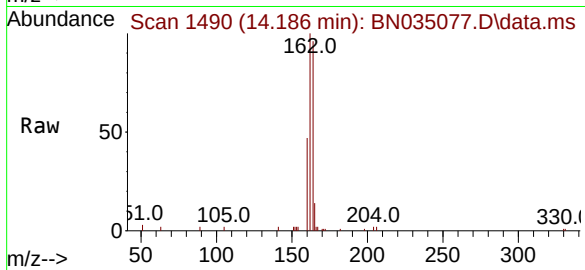




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. 0.000 min
Lab File: BN035077.D
Acq: 13 Nov 2024 21:37

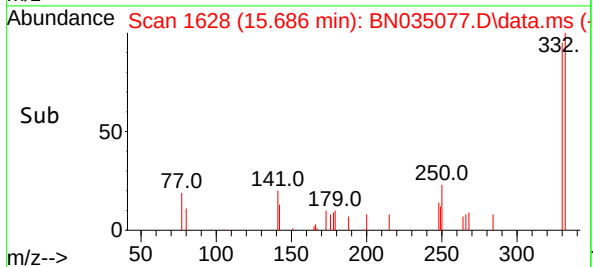
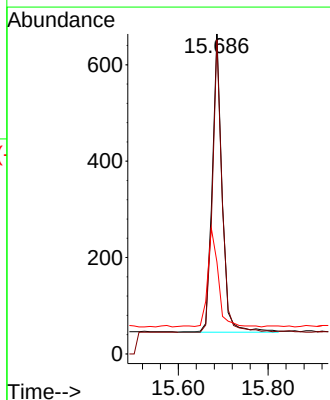
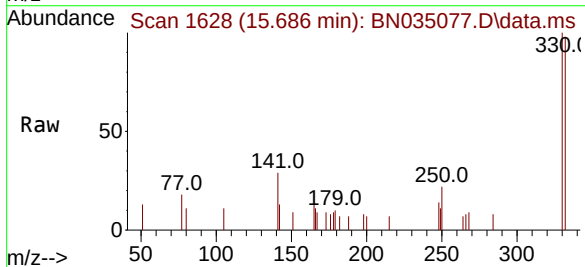
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241107

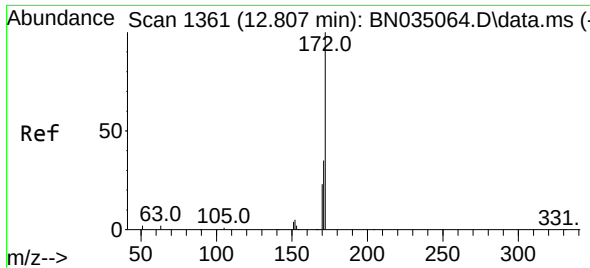
Tgt Ion:164 Resp: 4446
Ion Ratio Lower Upper
164 100
162 104.2 82.2 123.2
160 49.4 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.294 ng
RT: 15.686 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN035077.D
Acq: 13 Nov 2024 21:37

Tgt Ion:330 Resp: 942
Ion Ratio Lower Upper
330 100
332 95.0 76.9 115.3
141 35.8 29.6 44.4

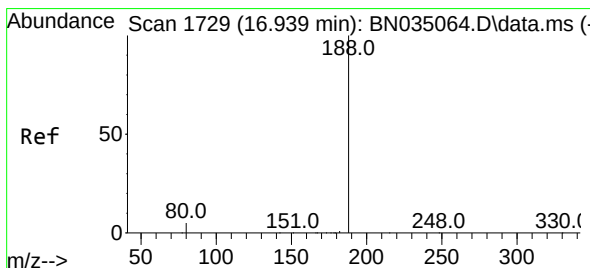
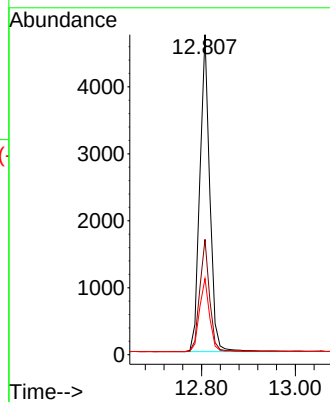
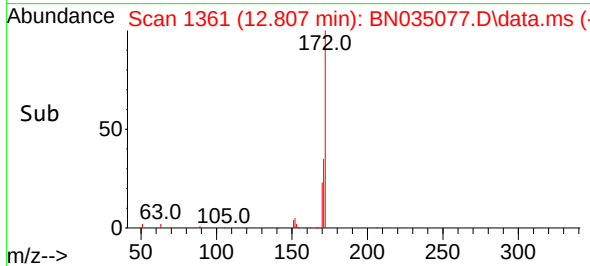
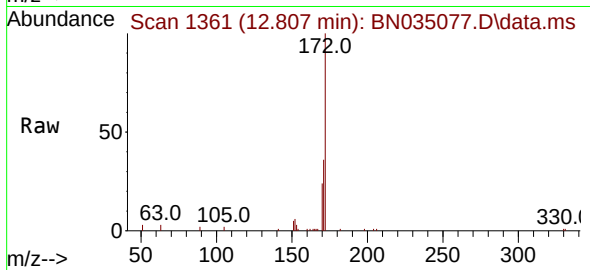




#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 12.807 min Scan# 1361
Delta R.T. 0.000 min
Lab File: BN035077.D
Acq: 13 Nov 2024 21:37

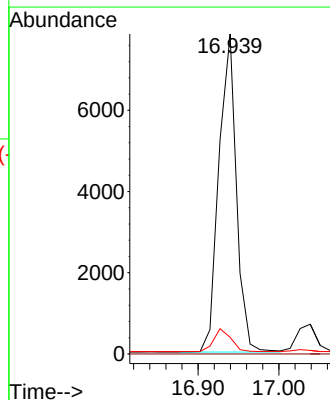
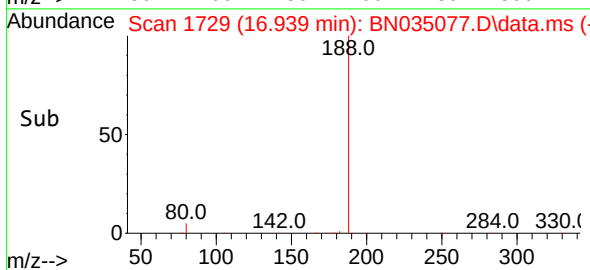
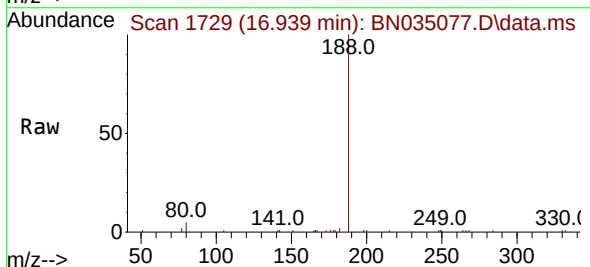
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241107

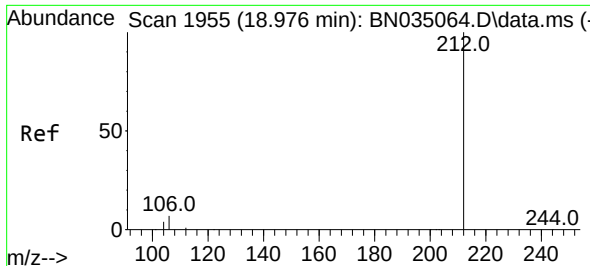
Tgt Ion:172 Resp: 6972
Ion Ratio Lower Upper
172 100
171 36.1 28.2 42.4
170 23.8 19.0 28.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.939 min Scan# 1729
Delta R.T. 0.000 min
Lab File: BN035077.D
Acq: 13 Nov 2024 21:37

Tgt Ion:188 Resp: 11812
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 5.2 4.3 6.5





#27

Fluoranthene-d10

Concen: 0.409 ng

RT: 18.971 min Scan# 1954

Delta R.T. -0.005 min

Lab File: BN035077.D

Acq: 13 Nov 2024 21:37

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241107

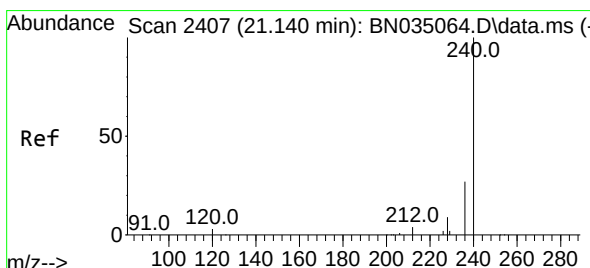
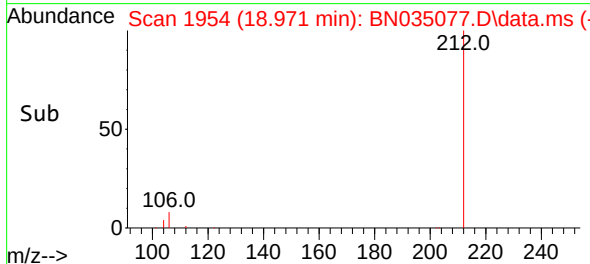
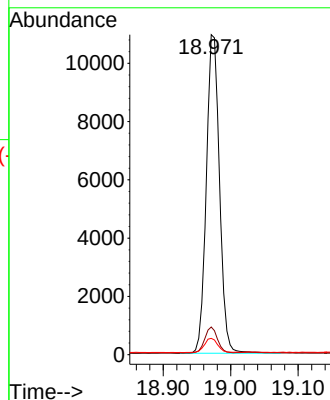
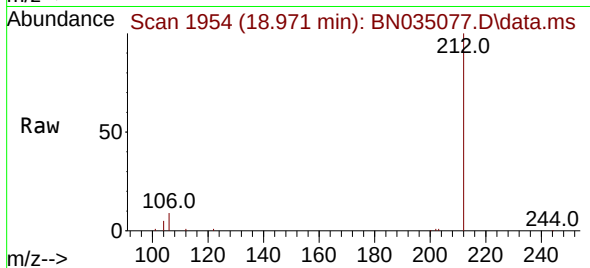
Tgt Ion:212 Resp: 14815

Ion Ratio Lower Upper

212 100

106 7.9 6.0 9.0

104 4.6 3.5 5.3



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.131 min Scan# 2406

Delta R.T. -0.009 min

Lab File: BN035077.D

Acq: 13 Nov 2024 21:37

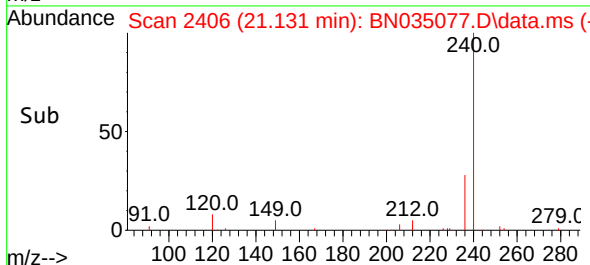
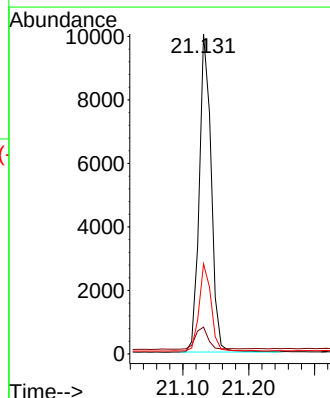
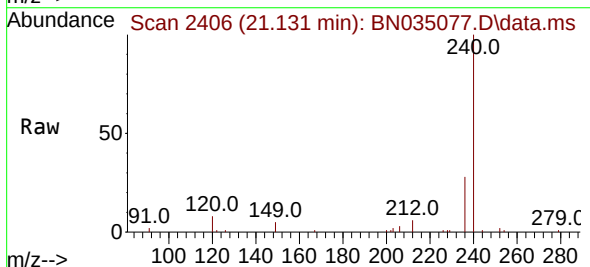
Tgt Ion:240 Resp: 12589

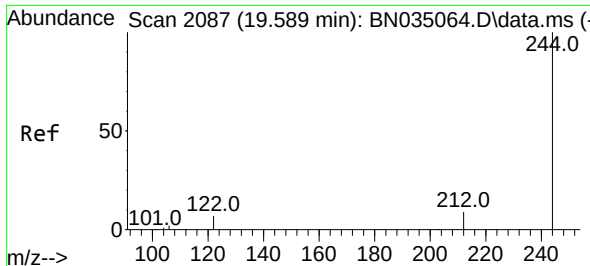
Ion Ratio Lower Upper

240 100

120 8.4 3.8 5.6

236 28.2 22.2 33.2

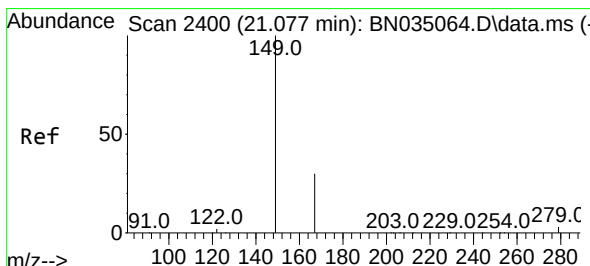
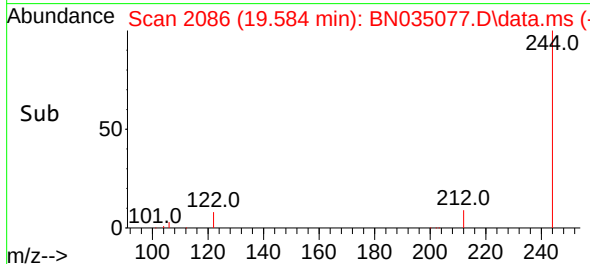
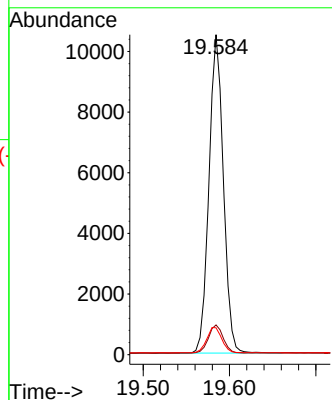
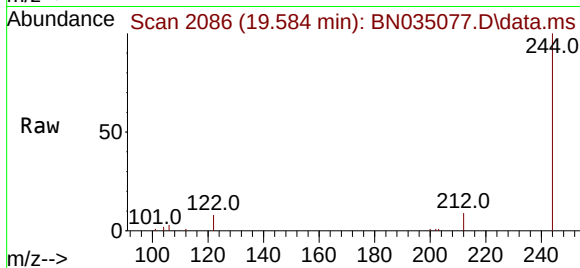




#31
Terphenyl-d14
Concen: 0.462 ng
RT: 19.584 min Scan# 2087
Delta R.T. -0.005 min
Lab File: BN035077.D
Acq: 13 Nov 2024 21:37

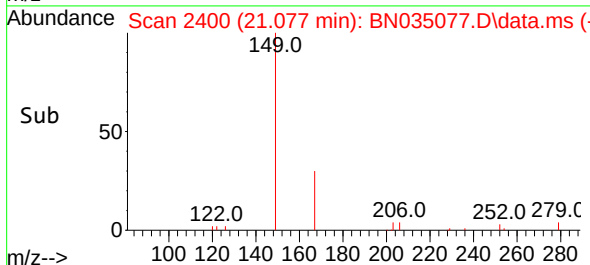
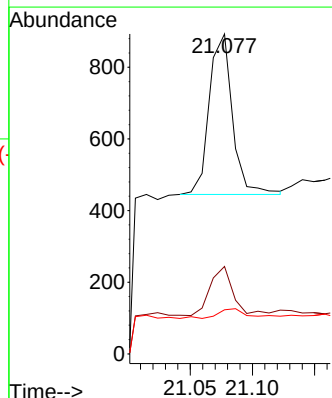
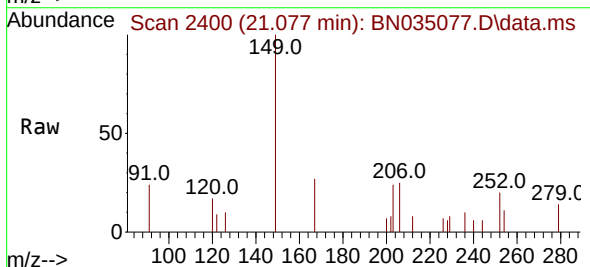
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241107

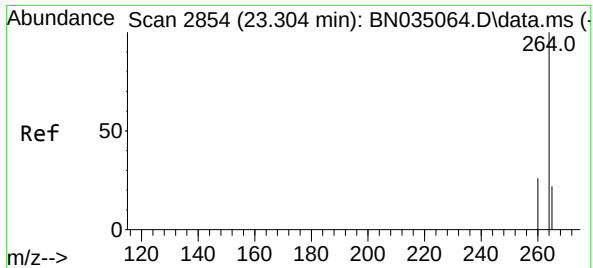
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.6	11.4
122	8.4	6.1	9.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.025 ng
RT: 21.077 min Scan# 2400
Delta R.T. 0.000 min
Lab File: BN035077.D
Acq: 13 Nov 2024 21:37

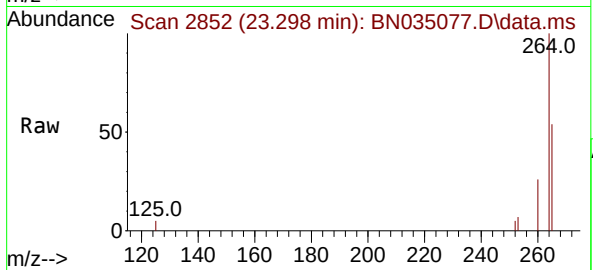
Tgt Ion	Ratio	Lower	Upper
149	100		
167	30.6	23.2	34.8
279	0.0	3.2	4.8



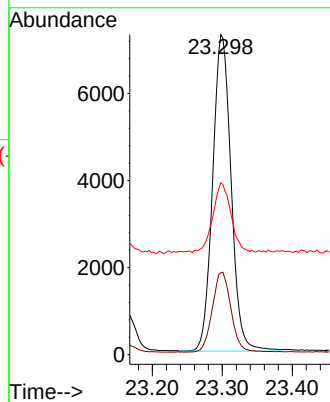
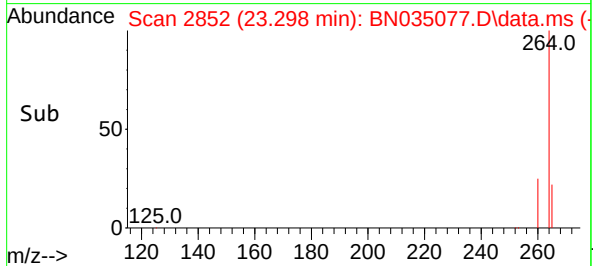


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.298 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN035077.D
Acq: 13 Nov 2024 21:37

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241107



Tgt Ion:264 Resp: 13332
Ion Ratio Lower Upper
264 100
260 25.6 20.9 31.3
265 53.7 35.4 53.2#



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	11/07/24	
Project:	CTO WE13		Date Received:	11/07/24	
Client Sample ID:	RW7-SP302-20241107		SDG No.:	P4773	
Lab Sample ID:	P4773-03		Matrix:	Water	
Analytical Method:	SW8270SIM		% 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 :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035092.D	1	11/08/24 11:30	11/14/24 17:47	PB164785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.080	JQ	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.42		30 - 150		106%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		106%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		105%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		127%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2450	7.553				
1146-65-2	Naphthalene-d8	6340	10.319				
15067-26-2	Acenaphthene-d10	4840	14.19				
1517-22-2	Phenanthrene-d10	11900	16.932				
1719-03-5	Chrysene-d12	11700	21.134				
1520-96-3	Perylene-d12	11200	23.303				

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\BN111424\
Data File : BN035092.D
Acq On : 14 Nov 2024 17:47
Operator : RC/JU
Sample : P4773-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241107

Quant Time: Nov 15 01:07:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

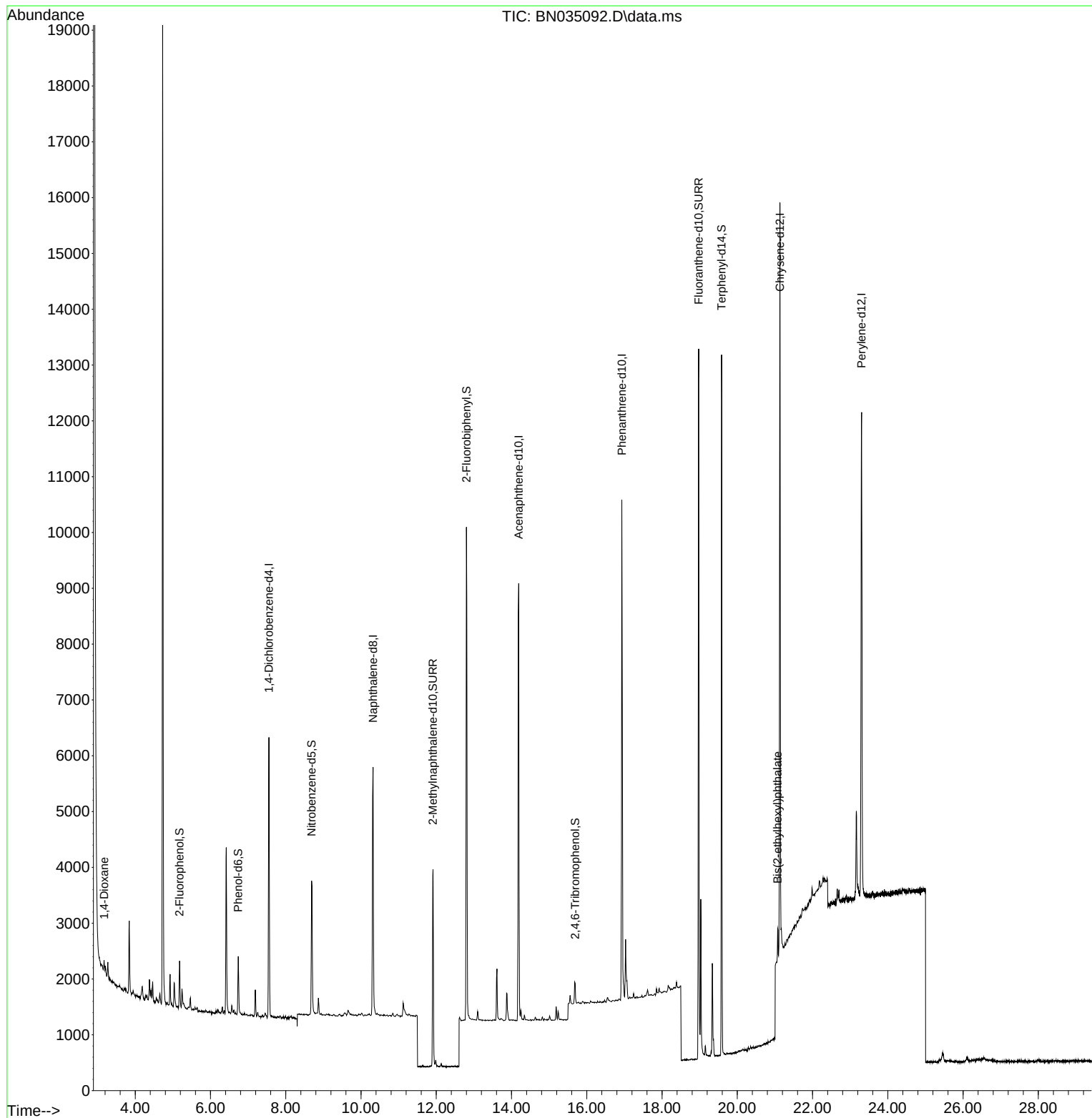
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2453	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6339	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	4841	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	11862	0.400	ng	# 0.00
29) Chrysene-d12	21.134	240	11655	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	11245	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	701	0.113	ng	0.00
5) Phenol-d6	6.737	99	1011	0.129	ng	0.00
8) Nitrobenzene-d5	8.685	82	2321	0.421	ng	-0.01
11) 2-Methylnaphthalene-d10	11.912	152	4775	0.423	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	270	0.077	ng	0.00
15) 2-Fluorobiphenyl	12.800	172	8272	0.421	ng	0.00
27) Fluoranthene-d10	18.973	212	15464	0.426	ng	0.00
31) Terphenyl-d14	19.582	244	12451	0.509	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	177	0.079	ng	# 23
34) Bis(2-ethylhexyl)phtha...	21.071	149	644	0.030	ng	# 95

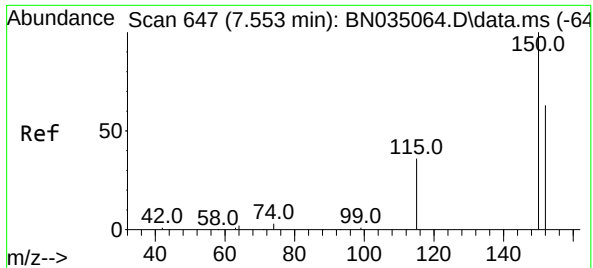
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035092.D
Acq On : 14 Nov 2024 17:47
Operator : RC/JU
Sample : P4773-03
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241107

Quant Time: Nov 15 01:07:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

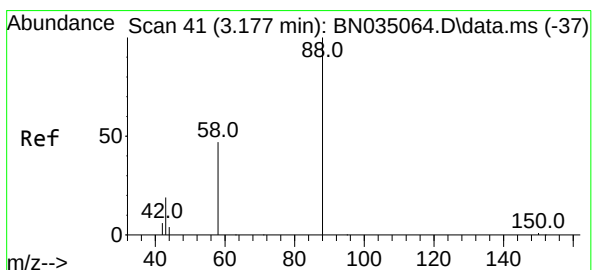
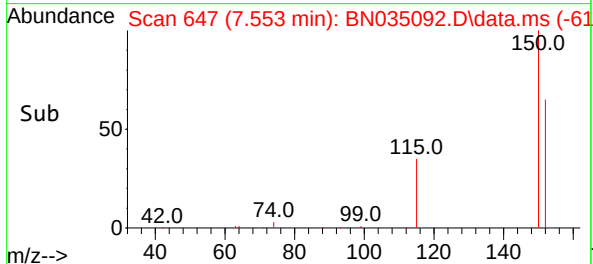
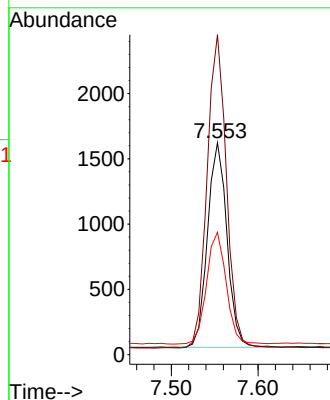
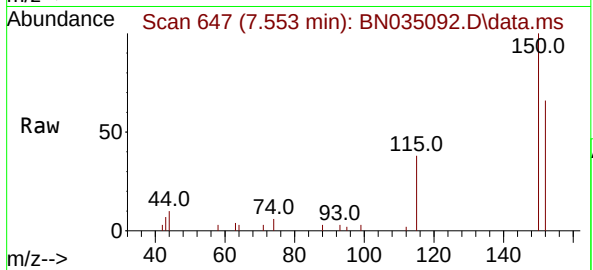




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

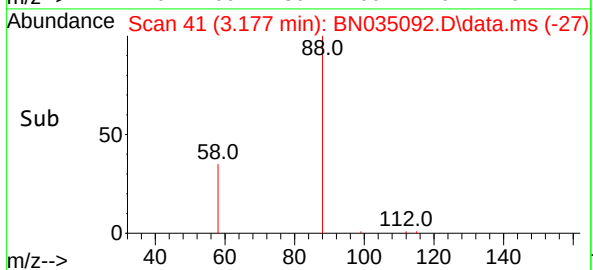
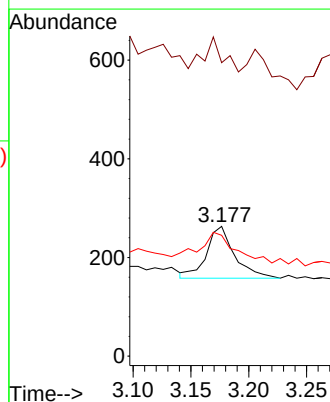
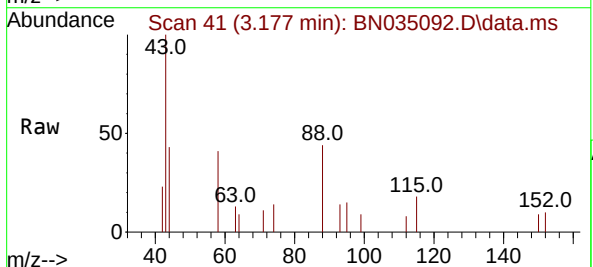
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241107

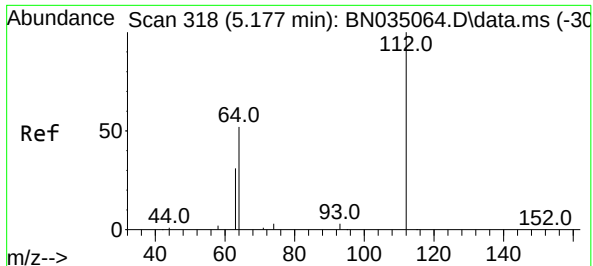
Tgt Ion:152 Resp: 2453
Ion Ratio Lower Upper
152 100
150 150.9 124.5 186.7
115 57.7 47.8 71.6



#2
1,4-Dioxane
Concen: 0.079 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

Tgt Ion: 88 Resp: 177
Ion Ratio Lower Upper
88 100
43 53.7 16.9 25.3#
58 103.4 39.0 58.4#

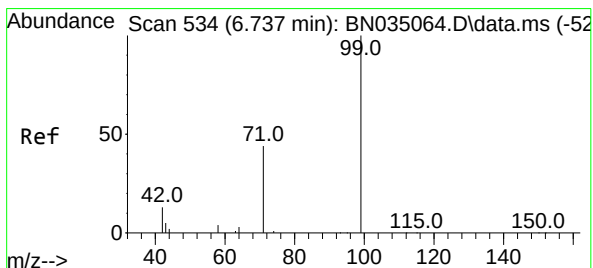
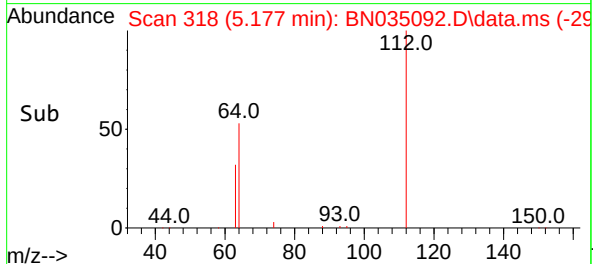
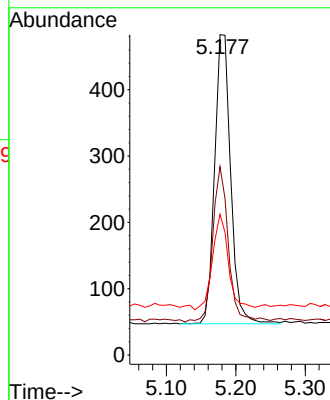
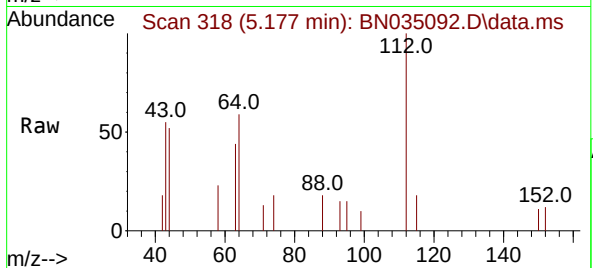




#4
2-Fluorophenol
Concen: 0.113 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

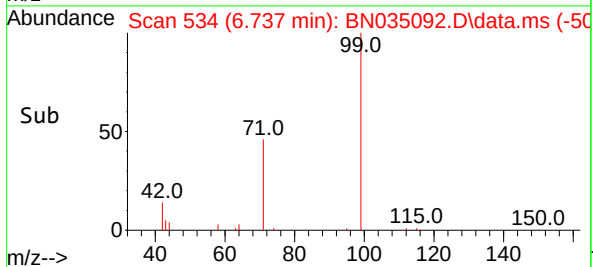
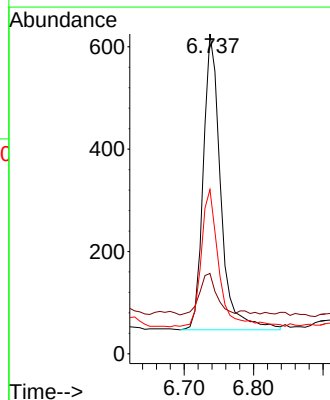
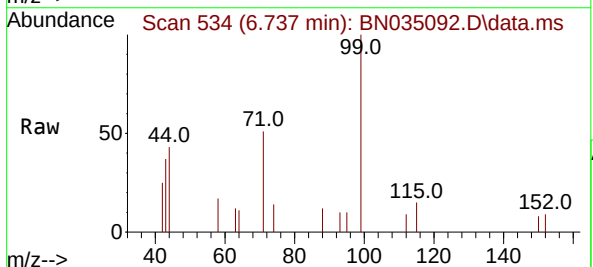
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241107

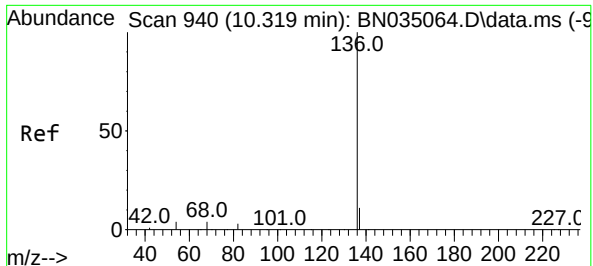
Tgt Ion:	112	Resp:	701
Ion	Ratio	Lower	Upper
112	100		
64	52.2	39.7	59.5
63	33.0	23.0	34.4



#5
Phenol-d6
Concen: 0.129 ng
RT: 6.737 min Scan# 534
Delta R.T. -0.000 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

Tgt Ion:	99	Resp:	1011
Ion	Ratio	Lower	Upper
99	100		
42	13.8	11.4	17.0
71	46.9	34.6	51.8

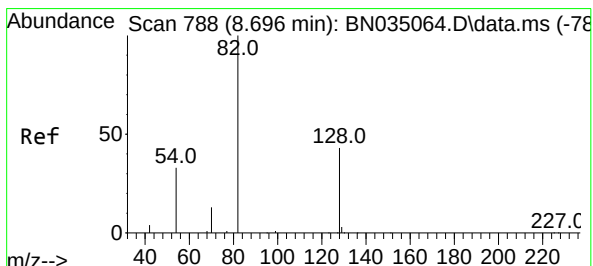
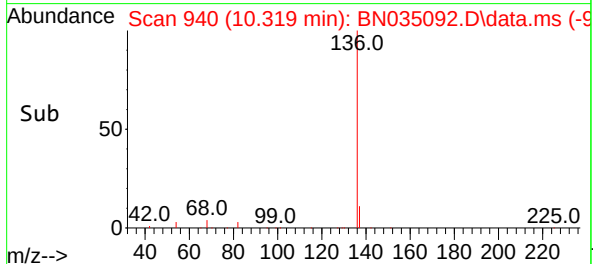
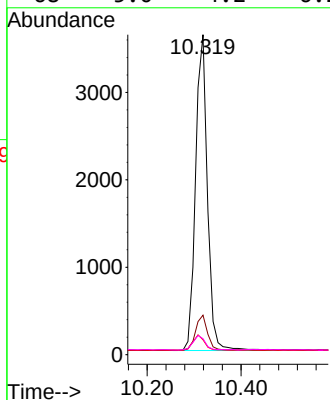
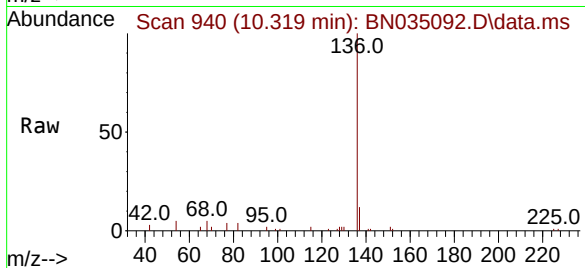




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

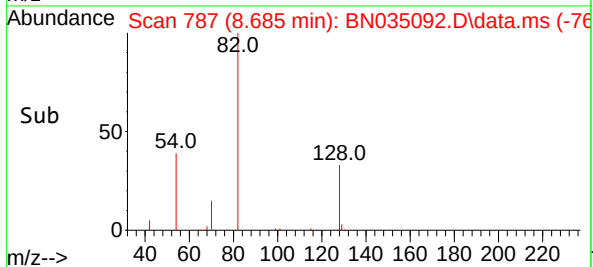
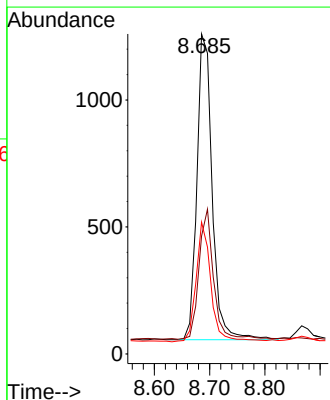
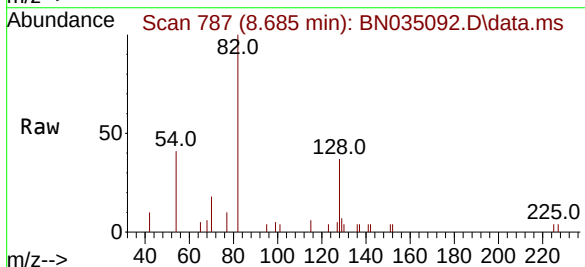
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241107

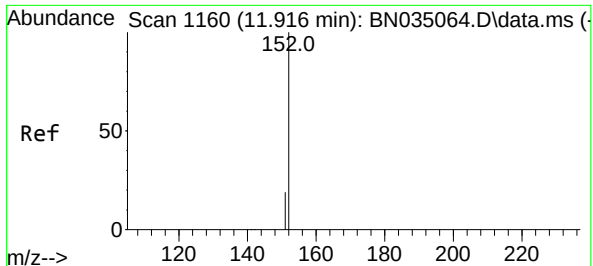
Tgt Ion:	136	Resp:	6339
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.8	14.8
54	4.6	4.0	6.0
68	5.0	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.421 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

Tgt Ion:	82	Resp:	2321
Ion	Ratio	Lower	Upper
82	100		
128	36.8	36.5	54.7
54	41.2	28.7	43.1

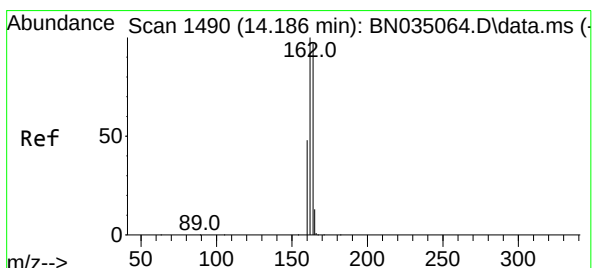
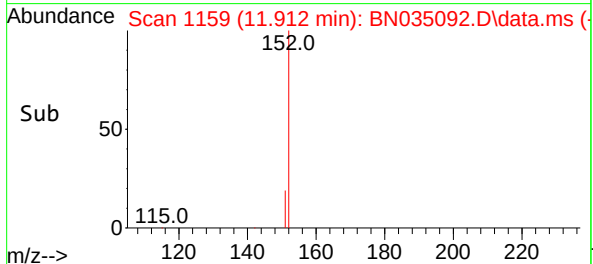
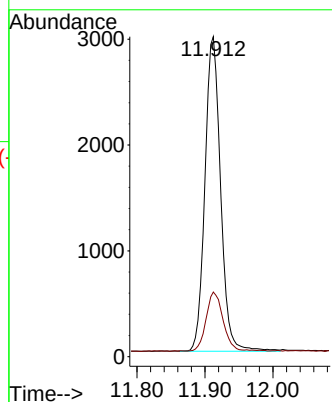
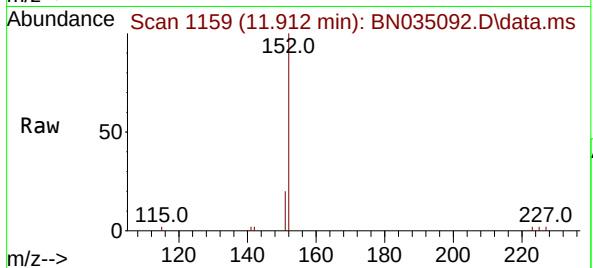




#11
2-Methylnaphthalene-d10
Concen: 0.423 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

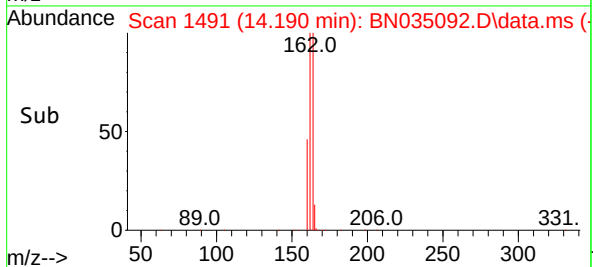
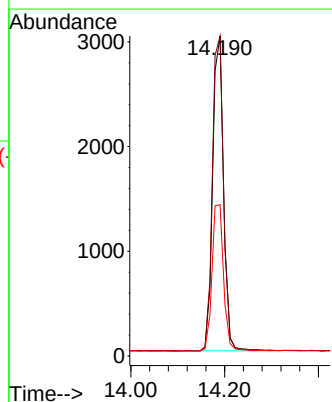
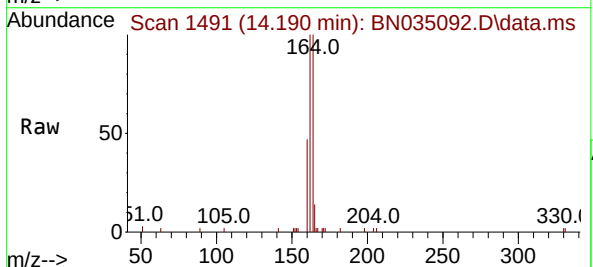
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241107

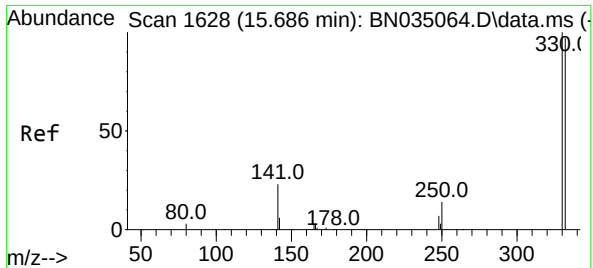
Tgt Ion:152 Resp: 4775
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.4



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

Tgt Ion:164 Resp: 4841
Ion Ratio Lower Upper
164 100
162 100.2 82.2 123.2
160 47.3 40.2 60.4

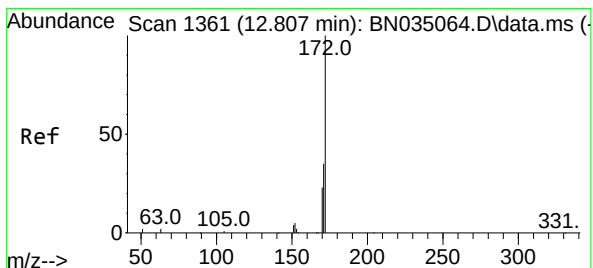
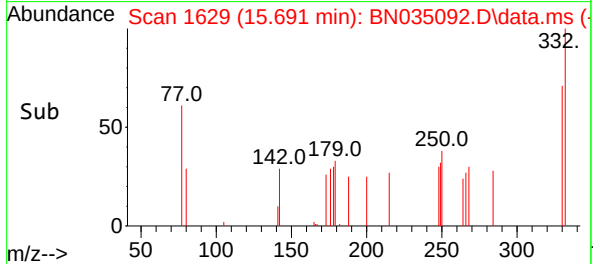
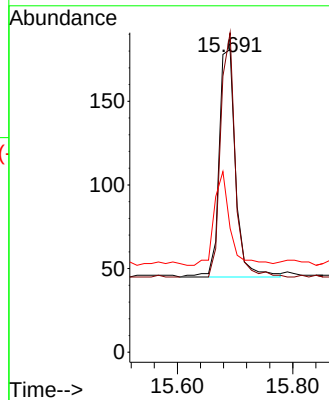
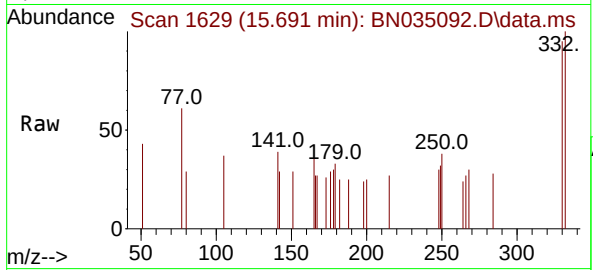




#14
2,4,6-Tribromophenol
Concen: 0.077 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

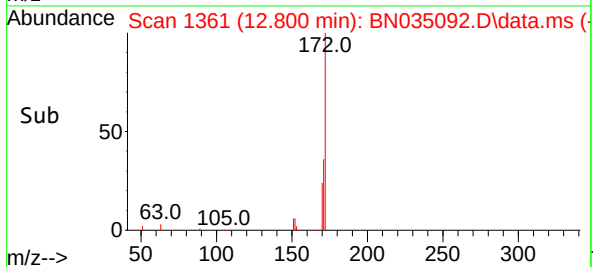
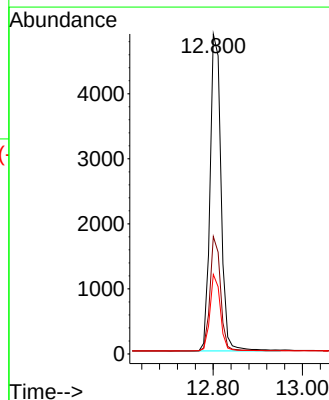
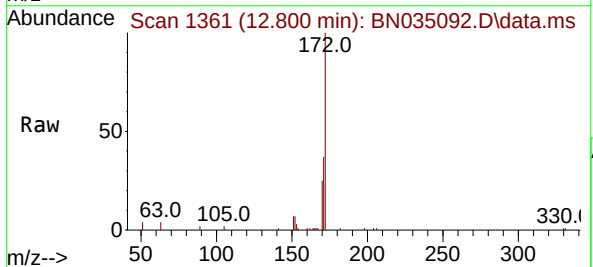
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241107

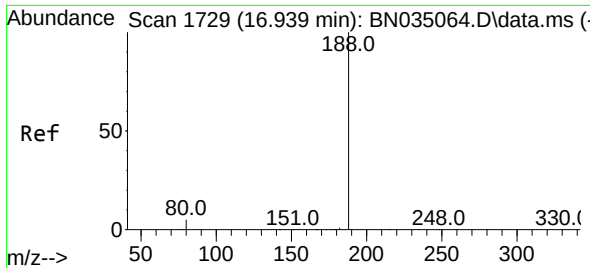
Tgt Ion:	330	Resp:	270
Ion	Ratio	Lower	Upper
330	100		
332	94.4	76.9	115.3
141	39.3	29.6	44.4



#15
2-Fluorobiphenyl
Concen: 0.421 ng
RT: 12.800 min Scan# 1361
Delta R.T. -0.007 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

Tgt Ion:	172	Resp:	8272
Ion	Ratio	Lower	Upper
172	100		
171	36.7	28.2	42.4
170	24.8	19.0	28.6

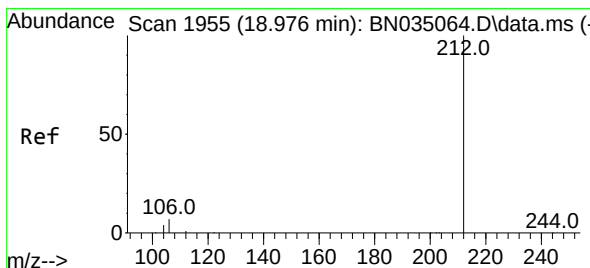
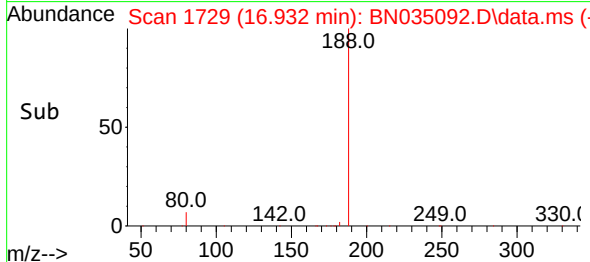
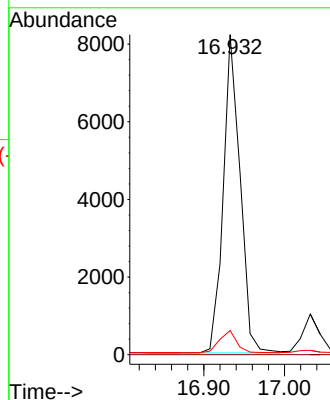
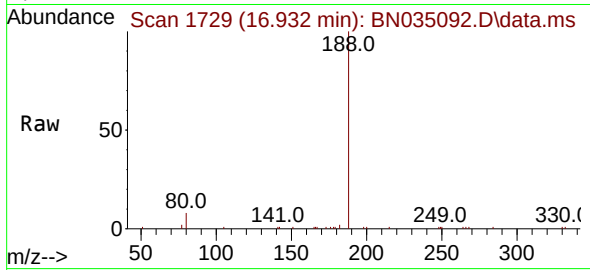




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.932 min Scan# 11
Delta R.T. -0.007 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

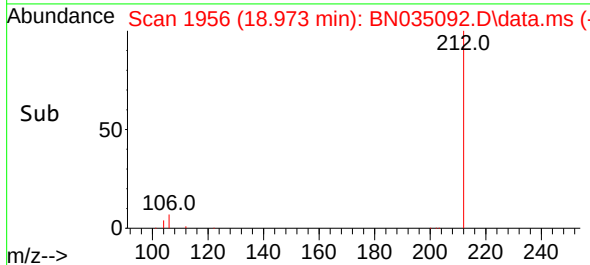
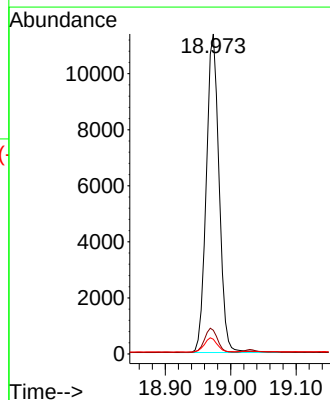
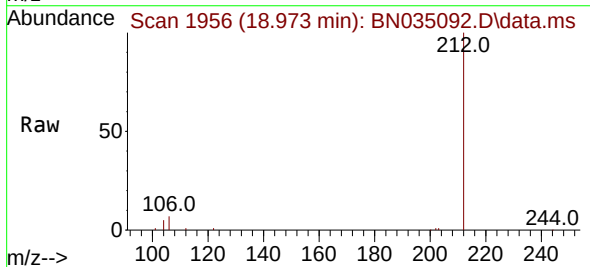
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241107

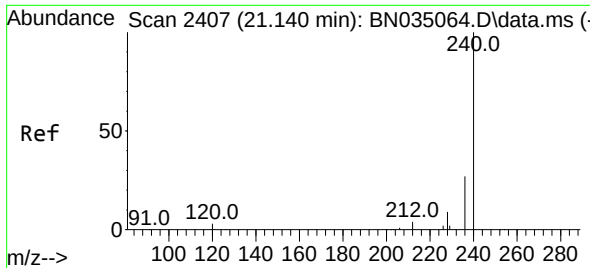
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.6	4.3	6.5#



#27
Fluoranthene-d10
Concen: 0.426 ng
RT: 18.973 min Scan# 1956
Delta R.T. -0.002 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

Tgt Ion	Ratio	Lower	Upper
212	100		
106	7.6	6.0	9.0
104	4.4	3.5	5.3

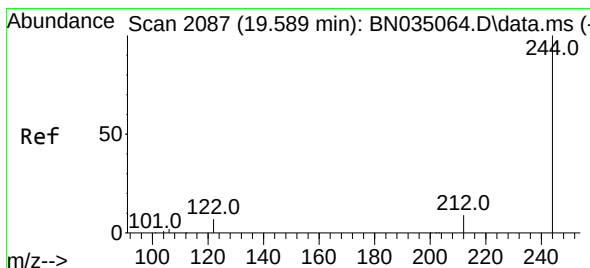
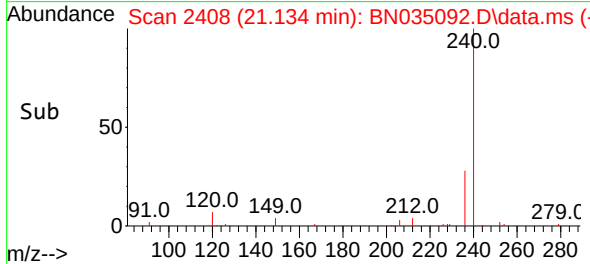
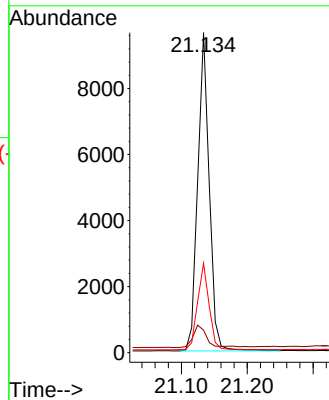
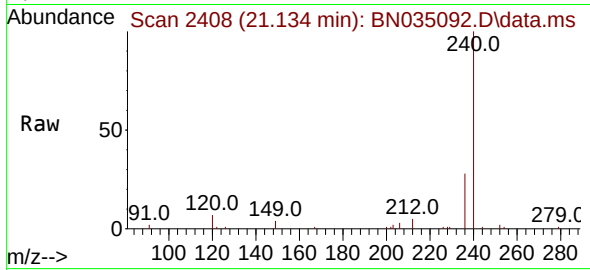




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.134 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

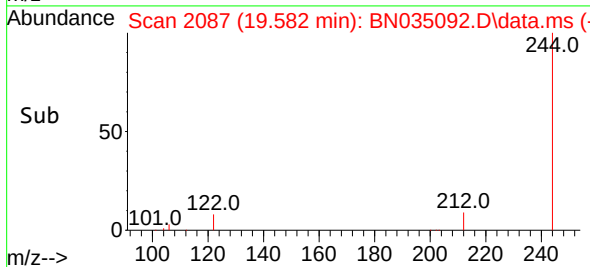
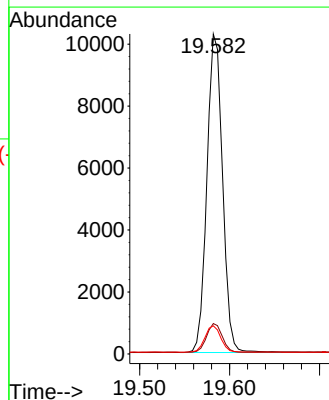
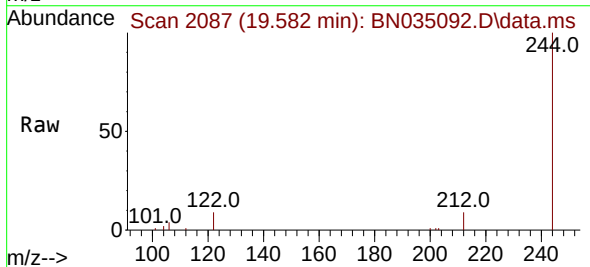
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241107

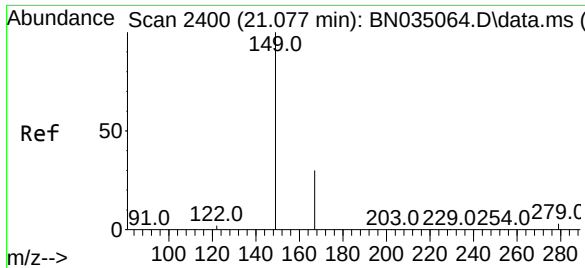
Tgt Ion:240 Resp: 11655
Ion Ratio Lower Upper
240 100
120 7.0 3.8 5.6#
236 28.0 22.2 33.2



#31
Terphenyl-d14
Concen: 0.509 ng
RT: 19.582 min Scan# 2087
Delta R.T. -0.007 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

Tgt Ion:244 Resp: 12451
Ion Ratio Lower Upper
244 100
212 9.5 7.6 11.4
122 8.8 6.1 9.1

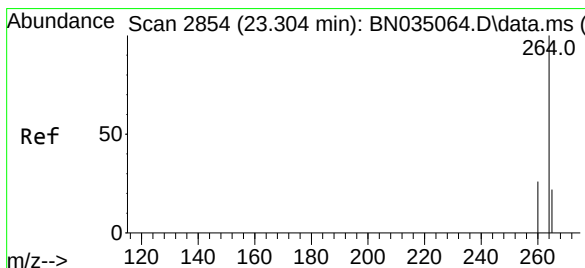
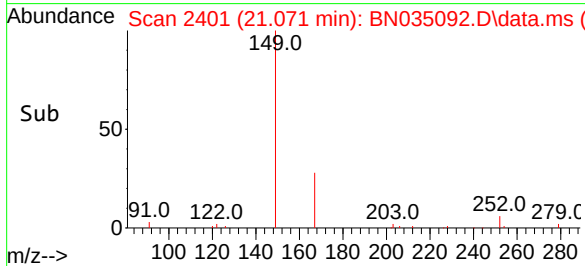
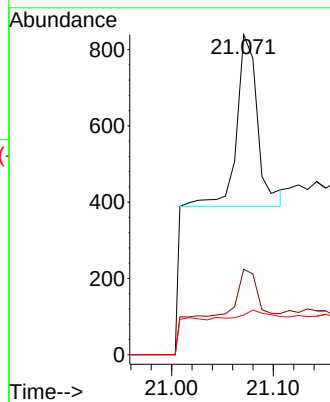
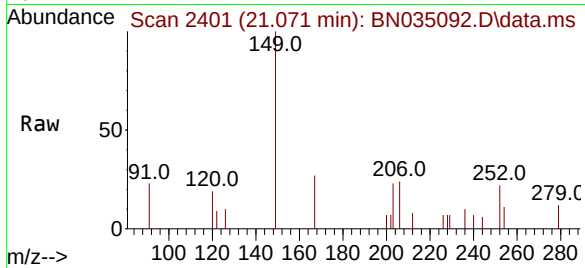




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.030 ng
RT: 21.071 min Scan# 2401
Delta R.T. -0.007 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

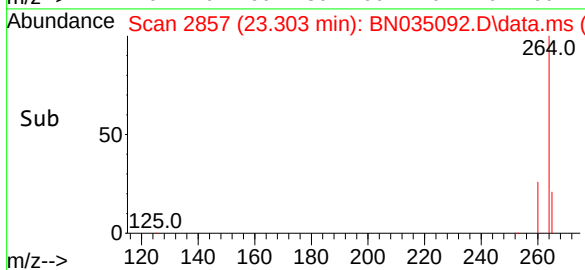
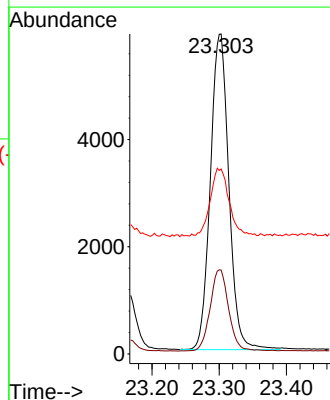
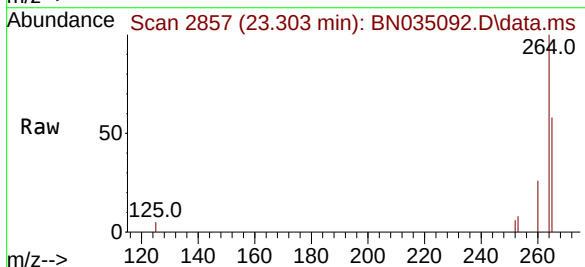
Instrument :
BNA_N
ClientSampleId :
RW7-SP302-20241107

Tgt Ion:149 Resp: 644
Ion Ratio Lower Upper
149 100
167 26.9 23.2 34.8
279 0.0 3.2 4.8#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 2857
Delta R.T. -0.001 min
Lab File: BN035092.D
Acq: 14 Nov 2024 17:47

Tgt Ion:264 Resp: 11245
Ion Ratio Lower Upper
264 100
260 26.2 20.9 31.3
265 57.8 35.4 53.2#



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	11/07/24	
Project:	CTO WE13		Date Received:	11/07/24	
Client Sample ID:	RW7-SP303-20241107		SDG No.:	P4773	
Lab Sample ID:	P4773-04		Matrix:	Water	
Analytical Method:	SW8270SIM		% 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 :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035091.D	1	11/08/24 11:30	11/14/24 17:11	PB164785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.070	JQ	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2620	7.553				
1146-65-2	Naphthalene-d8	6820	10.319				
15067-26-2	Acenaphthene-d10	5370	14.19				
1517-22-2	Phenanthrene-d10	12800	16.932				
1719-03-5	Chrysene-d12	12800	21.133				
1520-96-3	Perylene-d12	13000	23.3				

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\BN111424\
Data File : BN035091.D
Acq On : 14 Nov 2024 17:11
Operator : RC/JU
Sample : P4773-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241107

Quant Time: Nov 14 17:47:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

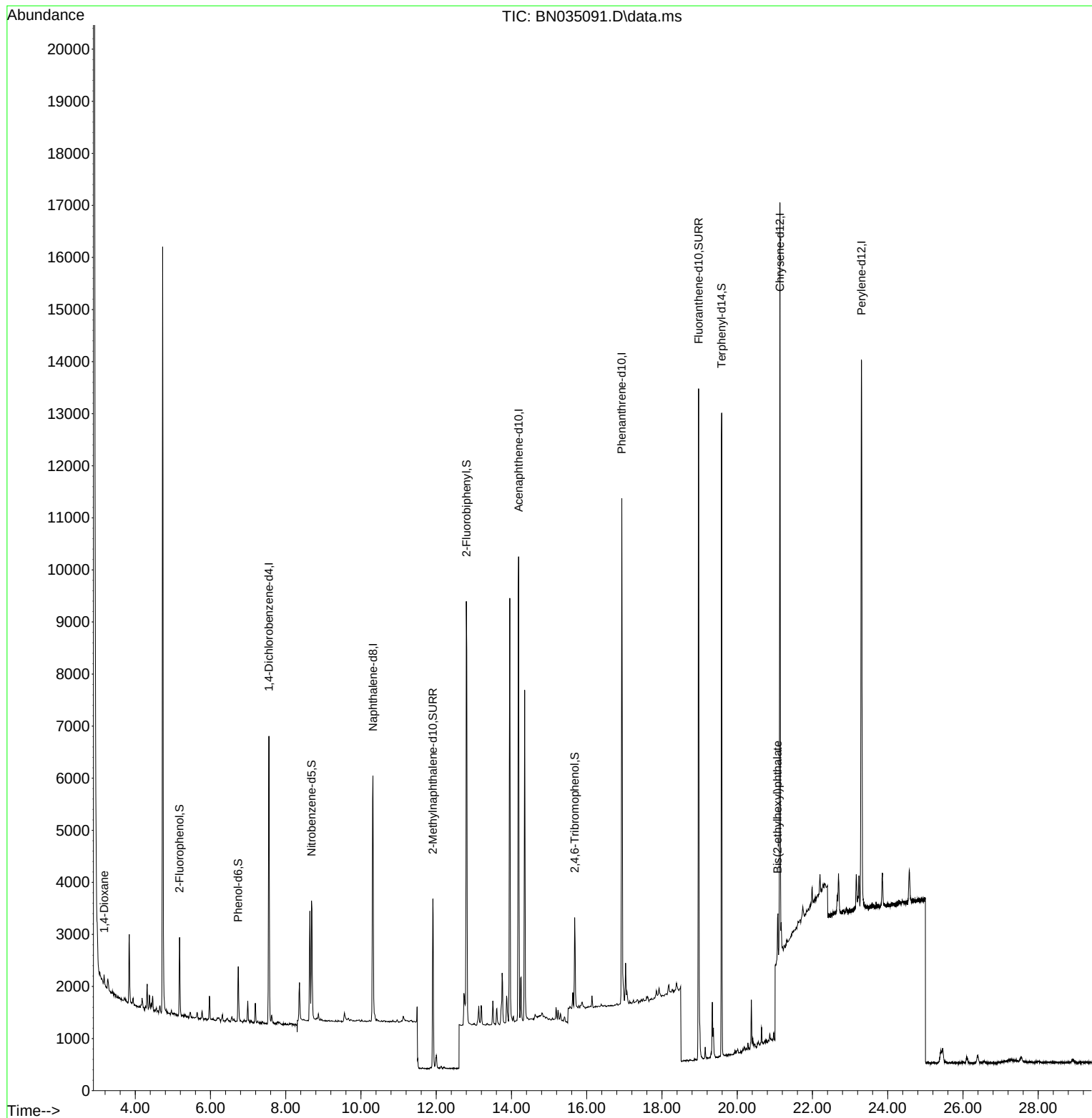
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2624	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6821	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	5370	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	12809	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	12812	0.400	ng	# 0.00
35) Perylene-d12	23.300	264	13035	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	1219	0.183	ng	0.00
5) Phenol-d6	6.737	99	1036	0.124	ng	0.00
8) Nitrobenzene-d5	8.685	82	2153	0.363	ng	-0.01
11) 2-Methylnaphthalene-d10	11.912	152	4394	0.361	ng	0.00
14) 2,4,6-Tribromophenol	15.679	330	1044	0.269	ng	0.00
15) 2-Fluorobiphenyl	12.800	172	7678	0.352	ng	0.00
27) Fluoranthene-d10	18.973	212	15281	0.389	ng	0.00
31) Terphenyl-d14	19.586	244	12316	0.458	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.176	88	159	0.067	ng	# 79
34) Bis(2-ethylhexyl)phtha...	21.071	149	874	0.037	ng	# 93

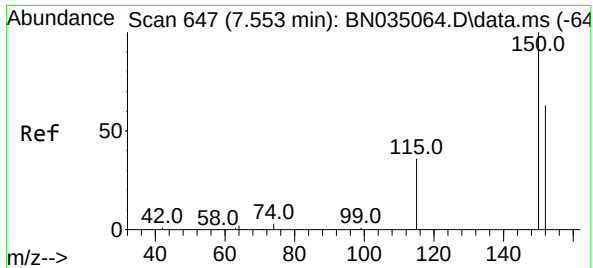
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035091.D
Acq On : 14 Nov 2024 17:11
Operator : RC/JU
Sample : P4773-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241107

Quant Time: Nov 14 17:47:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

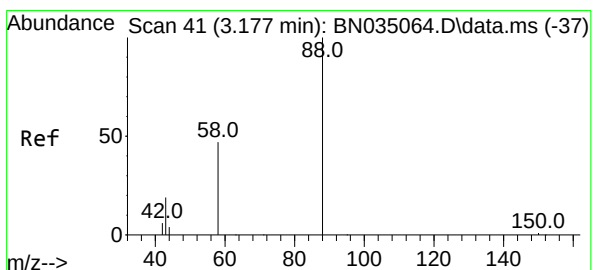
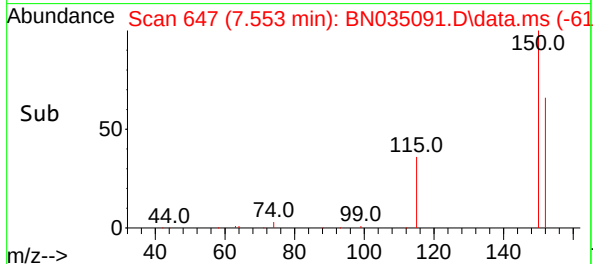
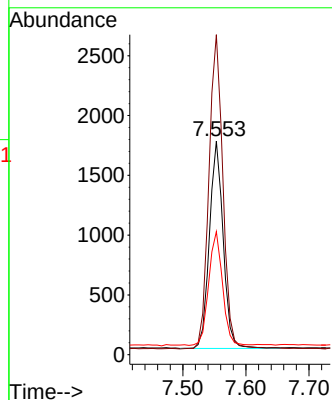
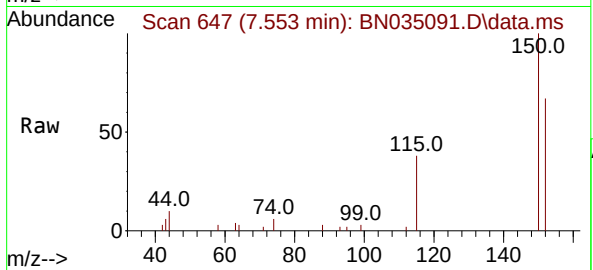




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035091.D
Acq: 14 Nov 2024 17:11

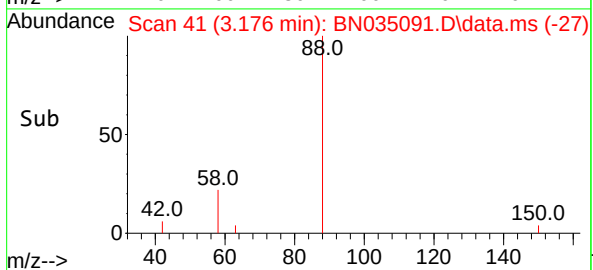
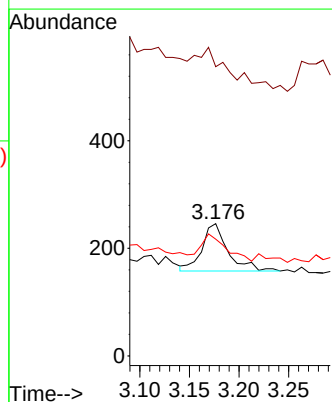
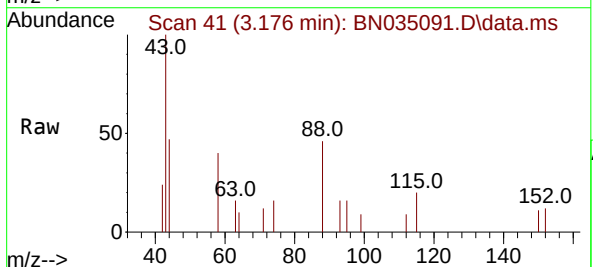
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241107

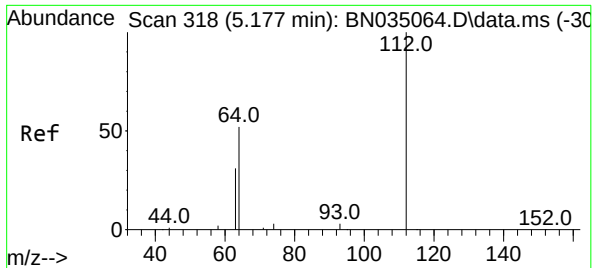
Tgt Ion:152 Resp: 2624
Ion Ratio Lower Upper
152 100
150 149.7 124.5 186.7
115 57.6 47.8 71.6



#2
1,4-Dioxane
Concen: 0.067 ng
RT: 3.176 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035091.D
Acq: 14 Nov 2024 17:11

Tgt Ion: 88 Resp: 159
Ion Ratio Lower Upper
88 100
43 0.0 16.9 25.3#
58 56.0 39.0 58.4

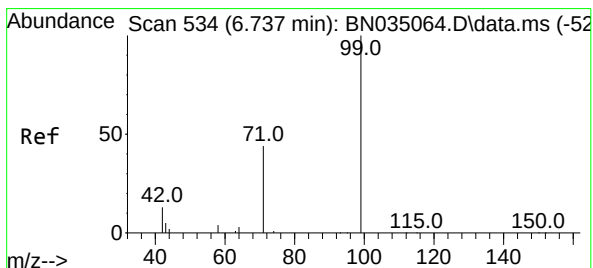
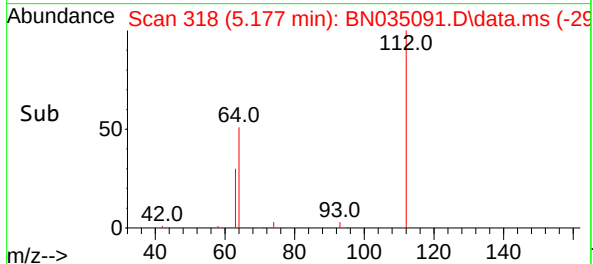
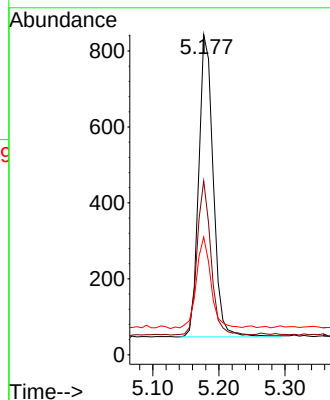
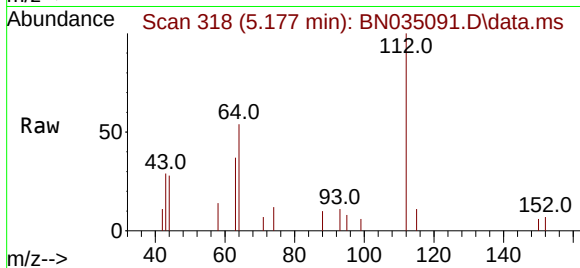




#4
2-Fluorophenol
Concen: 0.183 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035091.D
Acq: 14 Nov 2024 17:11

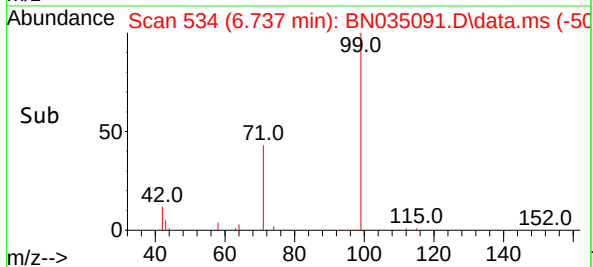
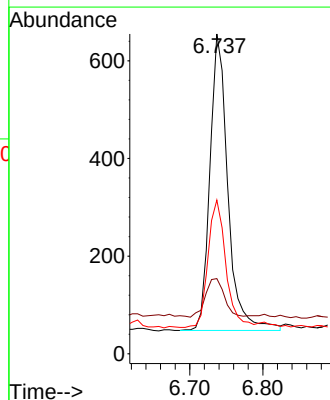
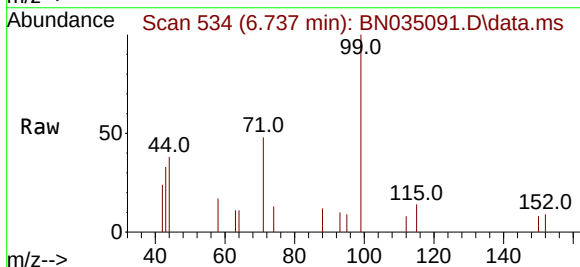
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241107

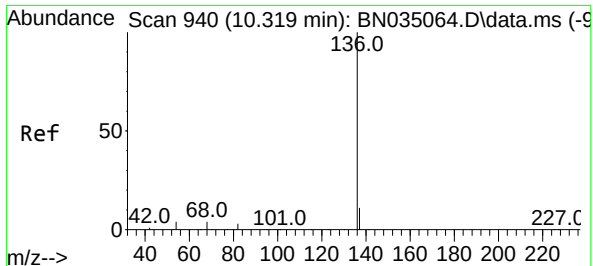
Tgt Ion:	112	Resp:	1219
Ion	Ratio	Lower	Upper
112	100		
64	48.6	39.7	59.5
63	30.7	23.0	34.4



#5
Phenol-d6
Concen: 0.124 ng
RT: 6.737 min Scan# 534
Delta R.T. -0.000 min
Lab File: BN035091.D
Acq: 14 Nov 2024 17:11

Tgt Ion:	99	Resp:	1036
Ion	Ratio	Lower	Upper
99	100		
42	13.6	11.4	17.0
71	42.6	34.6	51.8

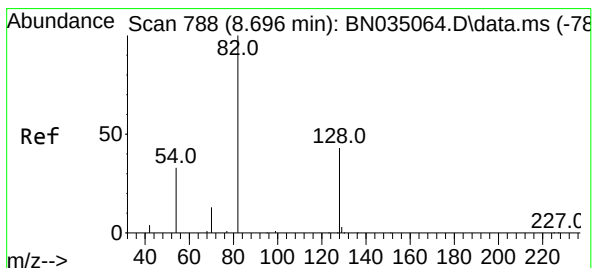
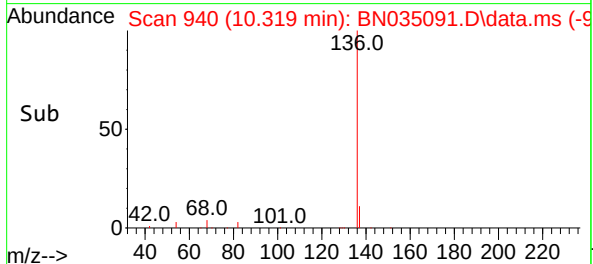
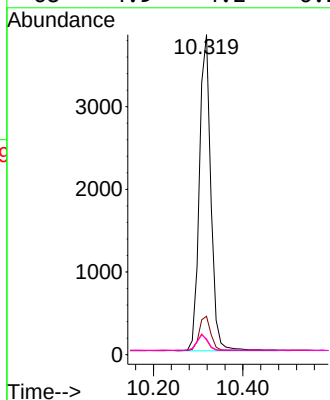
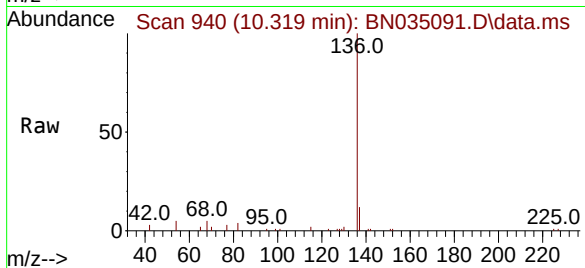




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035091.D
Acq: 14 Nov 2024 17:11

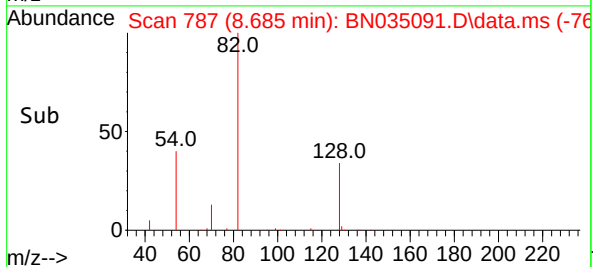
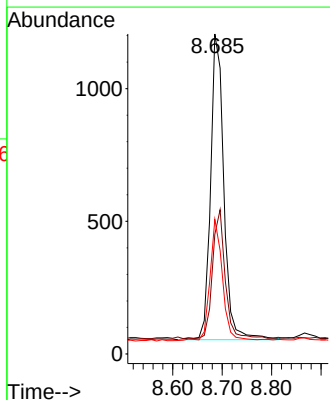
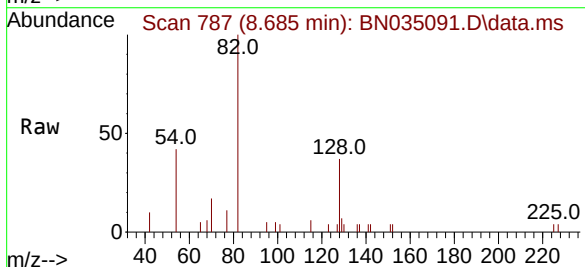
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241107

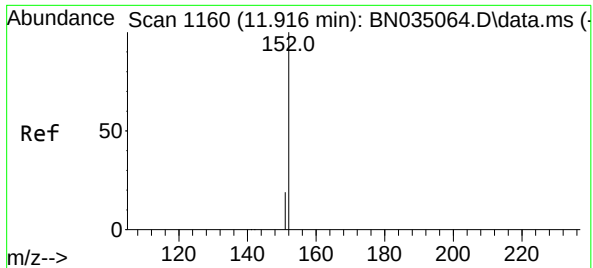
Tgt Ion:	136	Resp:	6821
Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.8	14.8
54	4.6	4.0	6.0
68	4.9	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.363 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035091.D
Acq: 14 Nov 2024 17:11

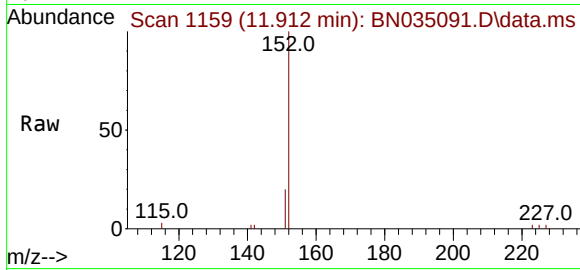
Tgt Ion:	82	Resp:	2153
Ion	Ratio	Lower	Upper
82	100		
128	37.4	36.5	54.7
54	42.0	28.7	43.1



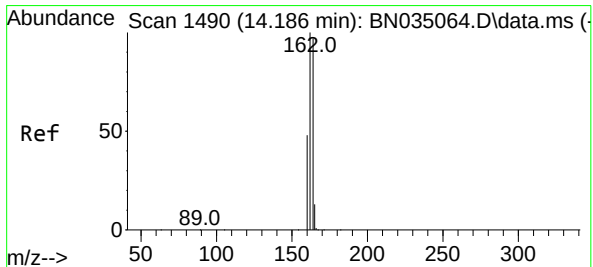
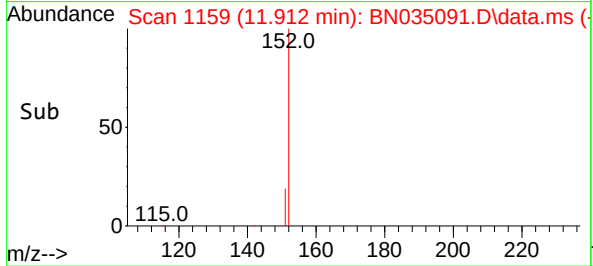
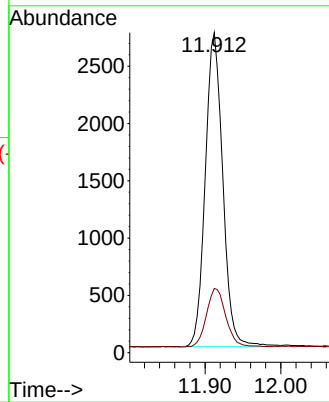


#11
2-Methylnaphthalene-d10
Concen: 0.361 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035091.D
Acq: 14 Nov 2024 17:11

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241107

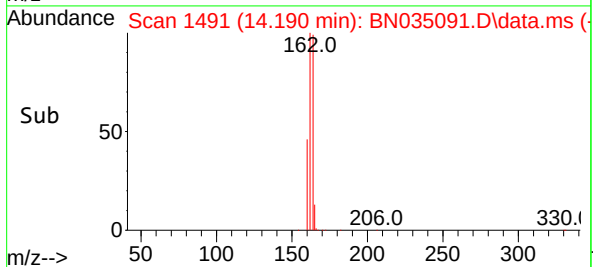
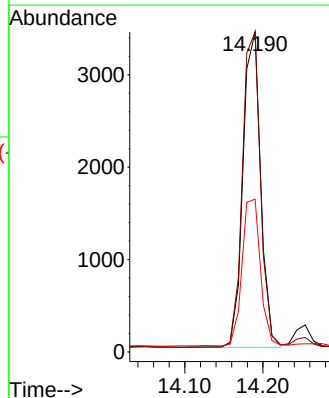
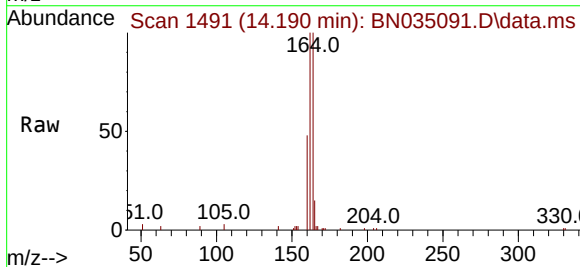


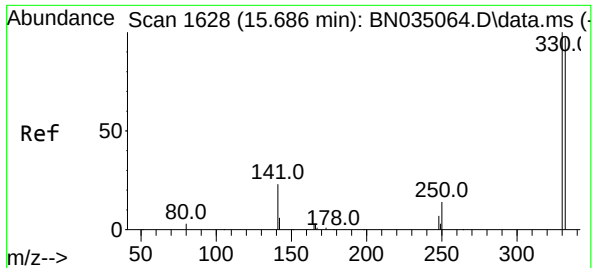
Tgt Ion:152 Resp: 4394
Ion Ratio Lower Upper
152 100
151 20.7 16.2 24.4



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035091.D
Acq: 14 Nov 2024 17:11

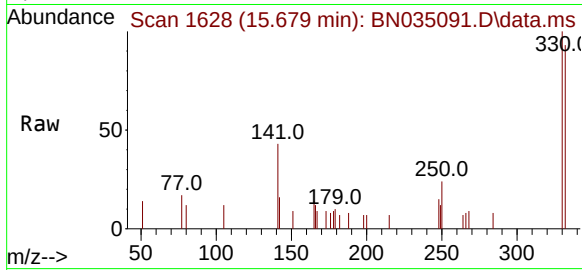
Tgt Ion:164 Resp: 5370
Ion Ratio Lower Upper
164 100
162 100.1 82.2 123.2
160 47.8 40.2 60.4



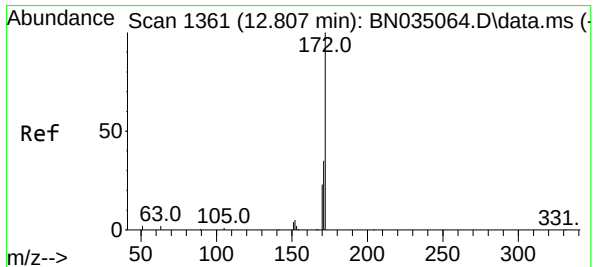
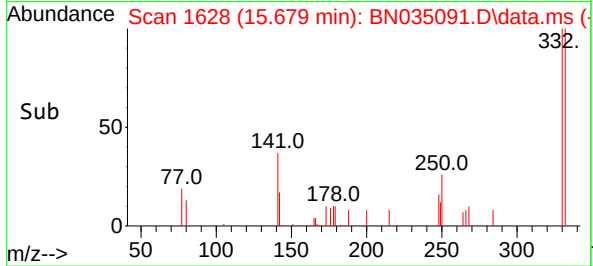
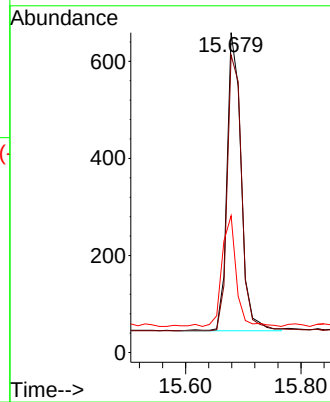


#14
2,4,6-Tribromophenol
Concen: 0.269 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.007 min
Lab File: BN035091.D
Acq: 14 Nov 2024 17:11

Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241107

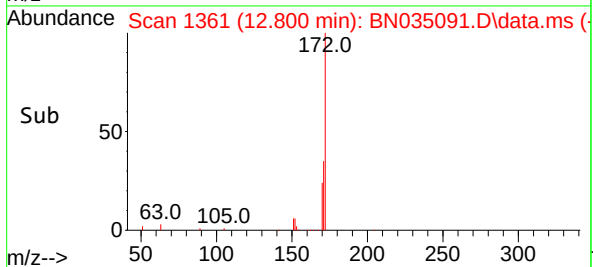
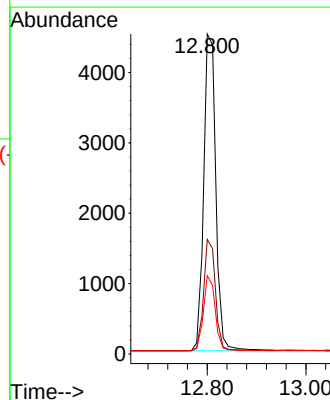
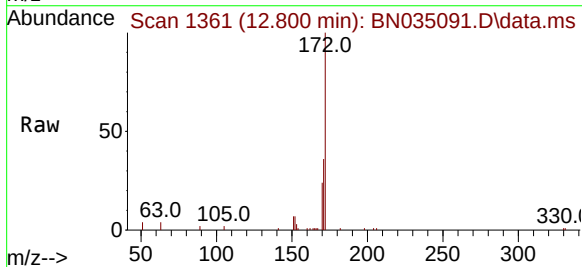


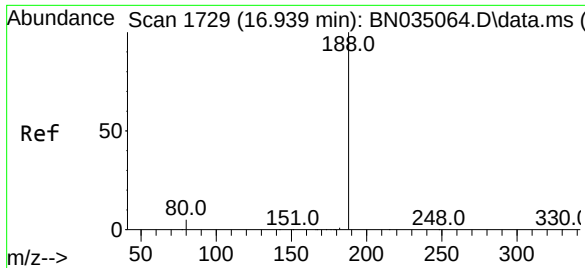
Tgt Ion: 330 Resp: 1044
Ion Ratio Lower Upper
330 100
332 95.8 76.9 115.3
141 37.6 29.6 44.4



#15
2-Fluorobiphenyl
Concen: 0.352 ng
RT: 12.800 min Scan# 1361
Delta R.T. -0.007 min
Lab File: BN035091.D
Acq: 14 Nov 2024 17:11

Tgt Ion: 172 Resp: 7678
Ion Ratio Lower Upper
172 100
171 35.8 28.2 42.4
170 24.5 19.0 28.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.932 min Scan# 11

Delta R.T. -0.007 min

Lab File: BN035091.D

Acq: 14 Nov 2024 17:11

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20241107

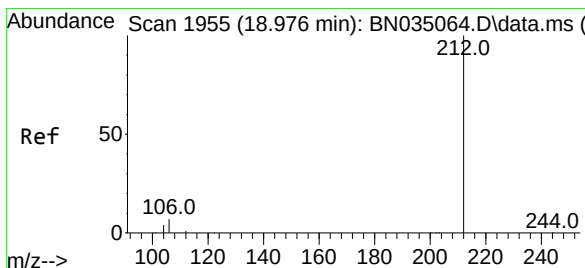
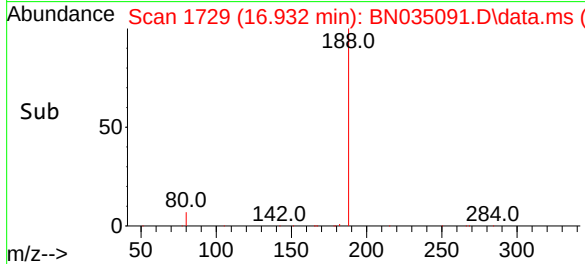
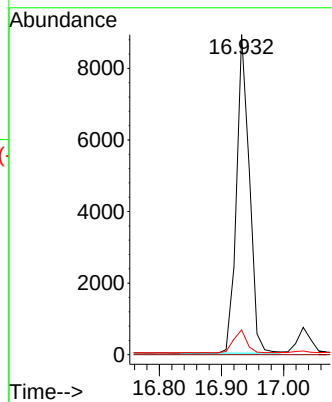
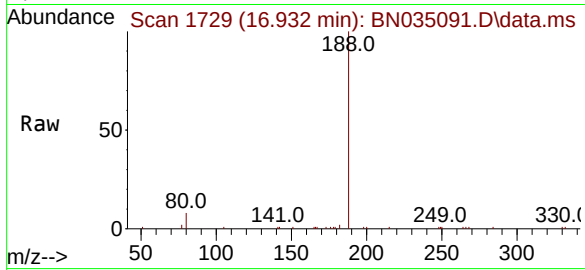
Tgt Ion:188 Resp: 12809

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.7 4.3 6.5#



#27

Fluoranthene-d10

Concen: 0.389 ng

RT: 18.973 min Scan# 1956

Delta R.T. -0.002 min

Lab File: BN035091.D

Acq: 14 Nov 2024 17:11

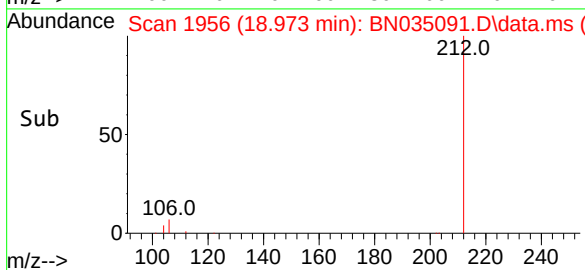
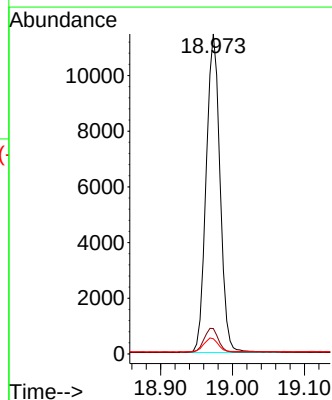
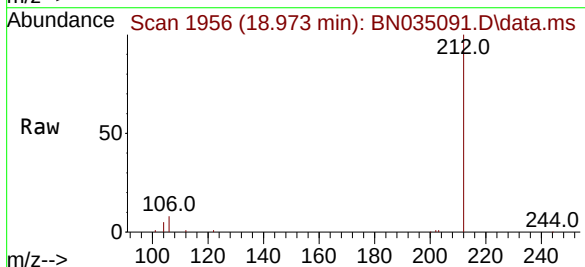
Tgt Ion:212 Resp: 15281

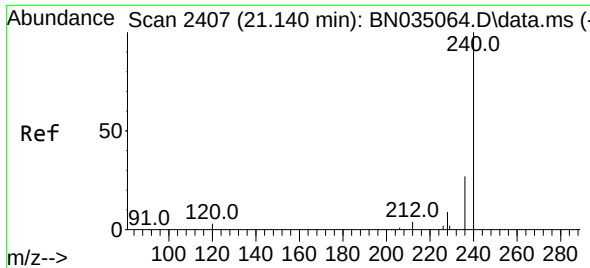
Ion Ratio Lower Upper

212 100

106 7.8 6.0 9.0

104 4.6 3.5 5.3

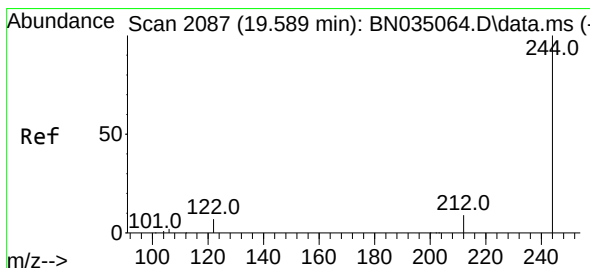
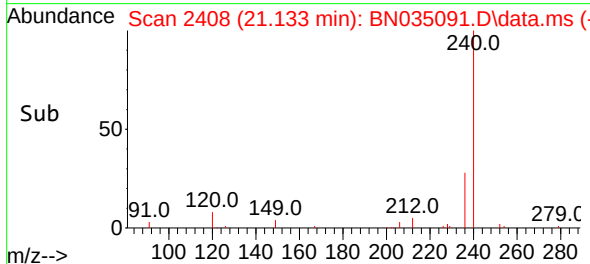
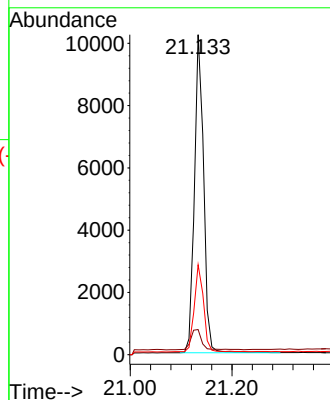
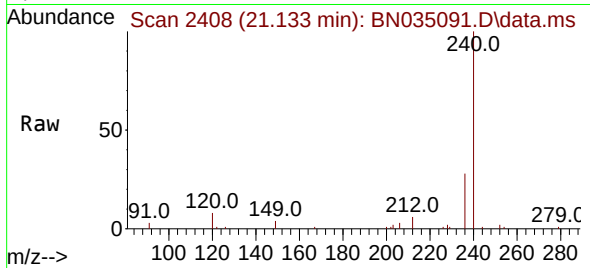




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035091.D
Acq: 14 Nov 2024 17:11

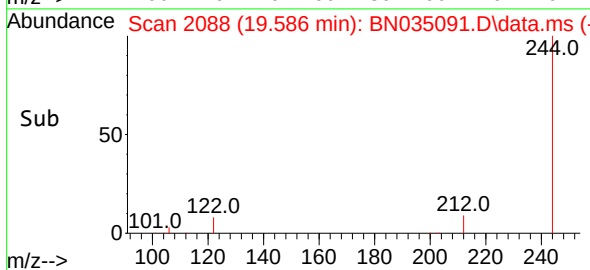
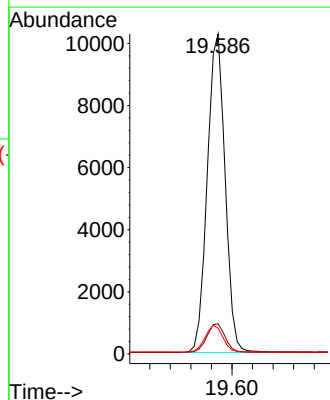
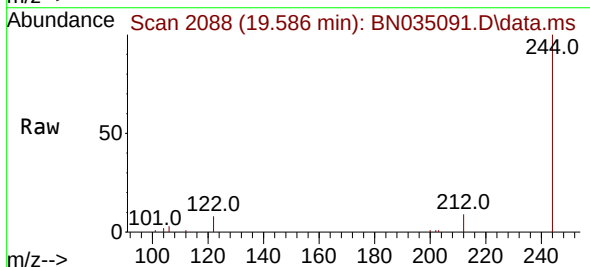
Instrument :
BNA_N
ClientSampleId :
RW7-SP303-20241107

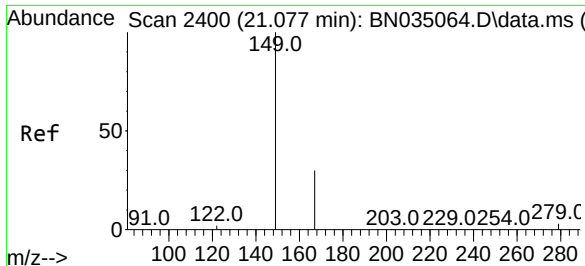
Tgt Ion:240 Resp: 12812
Ion Ratio Lower Upper
240 100
120 7.9 3.8 5.6#
236 28.1 22.2 33.2



#31
Terphenyl-d14
Concen: 0.458 ng
RT: 19.586 min Scan# 2088
Delta R.T. -0.002 min
Lab File: BN035091.D
Acq: 14 Nov 2024 17:11

Tgt Ion:244 Resp: 12316
Ion Ratio Lower Upper
244 100
212 9.4 7.6 11.4
122 8.1 6.1 9.1





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.037 ng

RT: 21.071 min Scan# 2401

Delta R.T. -0.007 min

Lab File: BN035091.D

Acq: 14 Nov 2024 17:11

Instrument :

BNA_N

ClientSampleId :

RW7-SP303-20241107

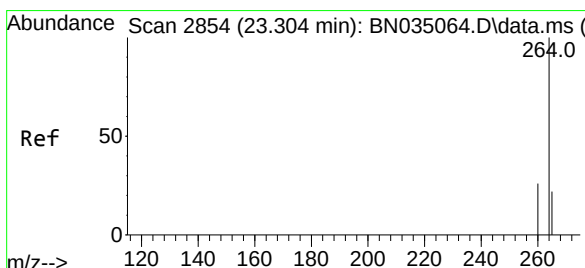
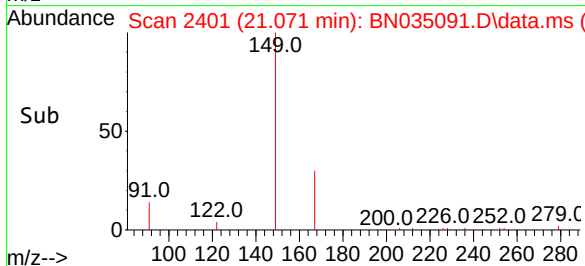
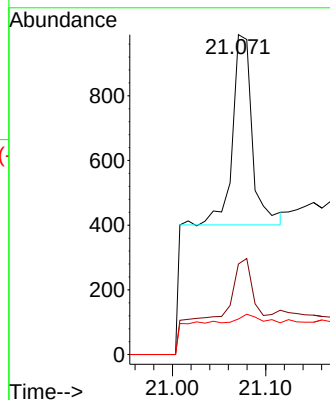
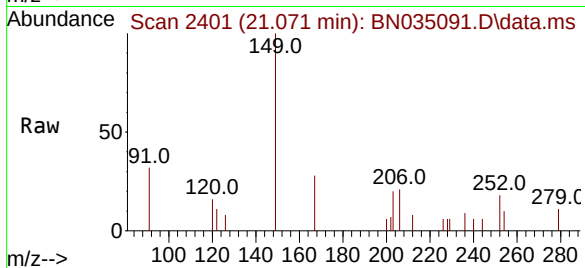
Tgt Ion:149 Resp: 874

Ion Ratio Lower Upper

149 100

167 32.8 23.2 34.8

279 7.0 3.2 4.8#



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.300 min Scan# 2856

Delta R.T. -0.004 min

Lab File: BN035091.D

Acq: 14 Nov 2024 17:11

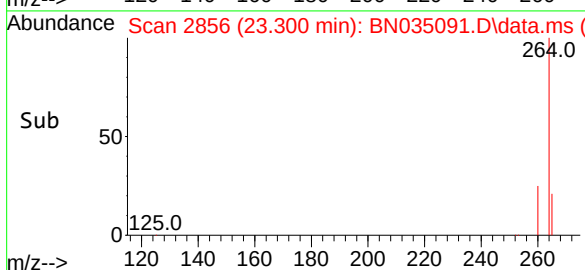
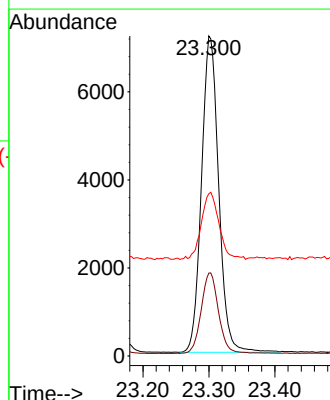
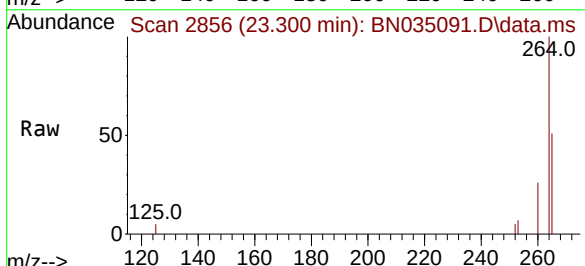
Tgt Ion:264 Resp: 13035

Ion Ratio Lower Upper

264 100

260 25.9 20.9 31.3

265 50.7 35.4 53.2





CALIBRATION SUMMARY

- 1
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- 18

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 17:18:14 2024
Response Via : Initial Calibration

Calibration Files

0.1 =BN035062.D 0.2 =BN035063.D 0.4 =BN035064.D 0.8 =BN035065.D 1.6 =BN035066.D 3.2 =BN035067.D 5.0 =BN035068.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	0.410	0.382	0.335	0.371	0.367	0.348	0.329	0.363	7.76
3)	n-Nitrosodimet...	0.366	0.328	0.326	0.360	0.347	0.321	0.322	0.339	5.51
4) S	2-Fluorophenol	1.073	1.039	0.949	1.086	1.034	0.966	0.961	1.015	5.54
5) S	Phenol-d6	1.264	1.279	1.159	1.355	1.318	1.255	1.282	1.273	4.79
6)	bis(2-Chloroet...	0.972	0.949	0.893	1.027	0.995	0.925	0.929	0.956	4.77
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.358	0.338	0.320	0.368	0.356	0.344	0.353	0.348	4.53
9)	Naphthalene	1.088	1.009	0.977	1.116	1.085	1.010	1.027	1.044	4.96
10)	Hexachlorobuta...	0.324	0.305	0.293	0.326	0.315	0.289	0.291	0.306	5.12
11) SURR2	Methylnaphth...	0.694	0.683	0.664	0.762	0.753	0.703	0.731	0.713	5.13
12)	2-Methylnaphth...	0.742	0.748	0.711	0.823	0.815	0.765	0.789	0.770	5.29
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.281	0.262	0.240	0.300	0.299	0.308	0.331	0.289	10.57
15) S	2-Fluorobiphenyl	1.701	1.576	1.460	1.735	1.687	1.599	1.614	1.624	5.73
16)	Acenaphthylene	1.715	1.616	1.488	1.822	1.775	1.756	1.795	1.709	6.93
17)	Acenaphthene	1.129	1.079	1.000	1.202	1.157	1.130	1.146	1.120	5.76
18)	Fluorene	1.704	1.591	1.463	1.755	1.708	1.656	1.659	1.648	5.86
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.068	0.067	0.073	0.087	0.088	0.095	0.105	0.083	17.50
21)	4-Bromophenyl-...	0.256	0.240	0.246	0.272	0.267	0.252	0.252	0.255	4.41
22)	Hexachlorobenzene	0.275	0.259	0.253	0.277	0.273	0.258	0.258	0.264	3.79
23)	Atrazine	0.227	0.227	0.217	0.244	0.238	0.223	0.225	0.229	3.95
24)	Pentachlorophenol	0.106	0.101	0.104	0.130	0.130	0.141	0.154	0.124	16.69
25)	Phenanthrene	1.069	1.013	1.004	1.115	1.096	1.034	1.036	1.053	3.97
26)	Anthracene	0.917	0.904	0.920	1.024	1.016	0.986	1.001	0.967	5.32
27) SURR	Fluoranthene-d10	1.196	1.178	1.169	1.288	1.284	1.222	1.240	1.225	3.91
28)	Fluoranthene	1.396	1.376	1.386	1.543	1.527	1.453	1.453	1.448	4.63
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.339	1.290	1.288	1.424	1.367	1.301	1.317	1.332	3.70
31) S	Terphenyl-d14	0.838	0.819	0.810	0.894	0.867	0.817	0.831	0.839	3.63
32)	Benzo(a)anthra...	1.421	1.368	1.328	1.464	1.416	1.355	1.396	1.393	3.31
33)	Chrysene	1.409	1.366	1.332	1.479	1.420	1.331	1.321	1.380	4.27
34)	Bis(2-ethylhex...	0.809	0.753	0.647	0.768	0.702	0.693	0.742	0.731	7.38
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN111324.M

36)	Indeno(1,2,3-c...	1.609	1.515	1.522	1.730	1.659	1.550	1.585	1.596	4.88
37)	Benzo(b)fluora...	1.326	1.272	1.279	1.439	1.418	1.327	1.359	1.346	4.77
38)	Benzo(k)fluora...	1.342	1.288	1.287	1.418	1.410	1.323	1.358	1.347	3.94
39) C	Benzo(a)pyrene	1.172	1.134	1.123	1.247	1.240	1.167	1.207	1.184	4.12
40)	Dibenzo(a,h)an...	1.248	1.195	1.210	1.375	1.322	1.235	1.265	1.264	5.06
41)	Benzo(g,h,i)pe...	1.380	1.288	1.286	1.452	1.386	1.294	1.328	1.345	4.71

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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035062.D
 Acq On : 13 Nov 2024 12:40
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Nov 13 16:42:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

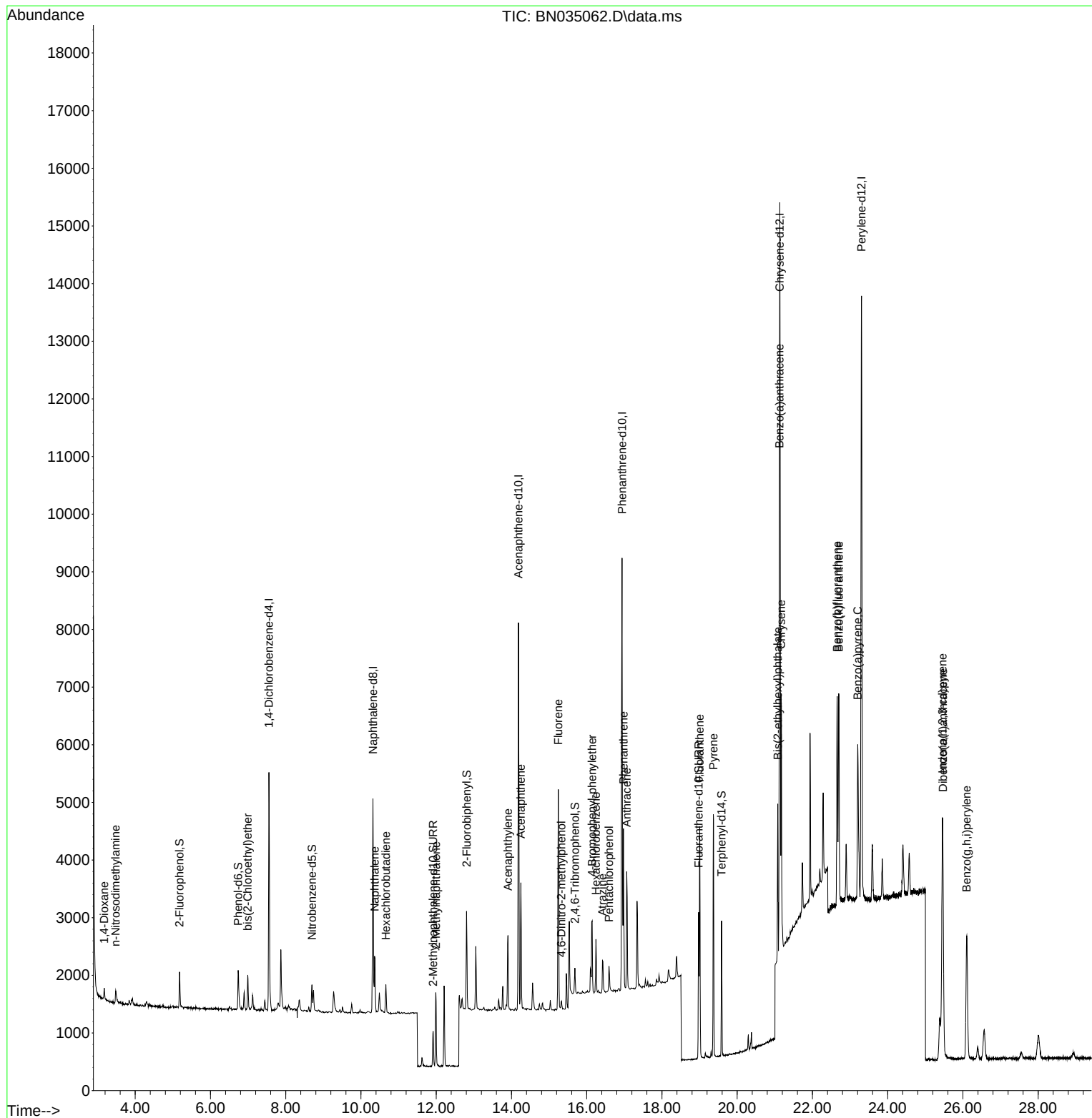
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	1991	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	4930	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	3629	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	10187	0.400	ng	0.00
29) Chrysene-d12	21.131	240	11121	0.400	ng	# 0.00
35) Perylene-d12	23.304	264	13104	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	534	0.106	ng	0.00
5) Phenol-d6	6.737	99	629	0.099	ng	0.00
8) Nitrobenzene-d5	8.696	82	441	0.103	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	855	0.097	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	255	0.097	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	1543	0.105	ng	0.00
27) Fluoranthene-d10	18.976	212	3046	0.098	ng	0.00
31) Terphenyl-d14	19.584	244	2331	0.100	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	204	0.113	ng	93
3) n-Nitrosodimethylamine	3.480	42	182	0.108	ng	# 90
6) bis(2-Chloroethyl)ether	6.990	93	484	0.102	ng	99
9) Naphthalene	10.362	128	1341	0.104	ng	# 89
10) Hexachlorobutadiene	10.660	225	399	0.106	ng	# 99
12) 2-Methylnaphthalene	11.992	142	914	0.096	ng	96
16) Acenaphthylene	13.908	152	1556	0.100	ng	99
17) Acenaphthene	14.250	154	1024	0.101	ng	98
18) Fluorene	15.245	166	1546	0.103	ng	99
20) 4,6-Dinitro-2-methylph...	15.330	198	172	0.081	ng	# 1
21) 4-Bromophenyl-phenylether	16.145	248	651	0.100	ng	97
22) Hexachlorobenzene	16.244	284	701	0.104	ng	98
23) Atrazine	16.418	200	577	0.099	ng	# 91
24) Pentachlorophenol	16.592	266	269	0.085	ng	94
25) Phenanthrene	16.977	178	2723	0.102	ng	100
26) Anthracene	17.063	178	2335	0.095	ng	98
28) Fluoranthene	19.003	202	3554	0.096	ng	100
30) Pyrene	19.366	202	3722	0.101	ng	98
32) Benzo(a)anthracene	21.122	228	3952	0.102	ng	97
33) Chrysene	21.167	228	3918	0.102	ng	96
34) Bis(2-ethylhexyl)phtha...	21.077	149	2250	0.112	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.455	276	5271	0.101	ng	96
37) Benzo(b)fluoranthene	22.657	252	4345	0.099	ng	# 82
38) Benzo(k)fluoranthene	22.701	252	4395	0.100	ng	# 78
39) Benzo(a)pyrene	23.204	252	3841	0.099	ng	# 77
40) Dibenzo(a,h)anthracene	25.467	278	4089	0.099	ng	# 85
41) Benzo(g,h,i)perylene	26.099	276	4521	0.103	ng	# 94

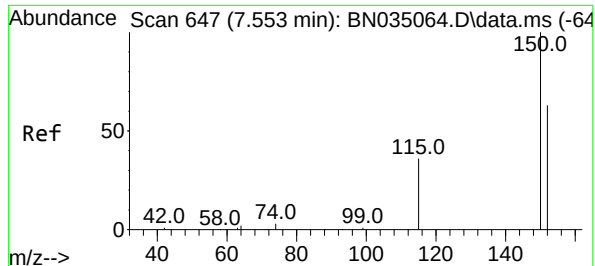
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Acq On : 13 Nov 2024 12:40
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 13 16:42:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

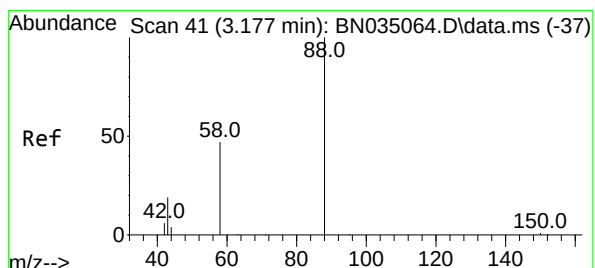
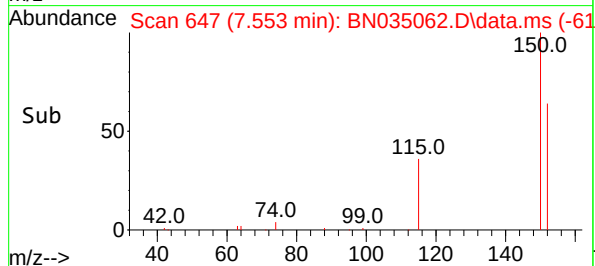
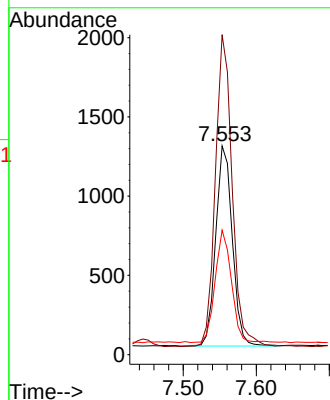
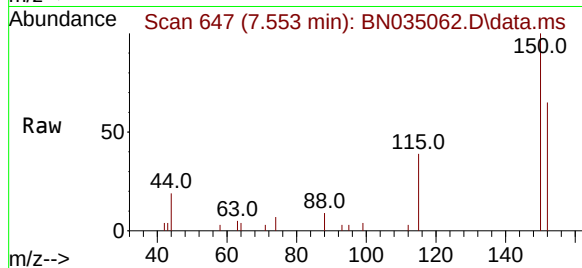




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

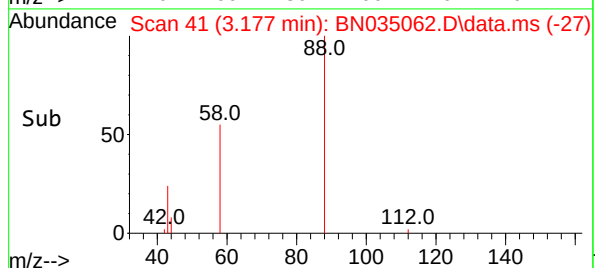
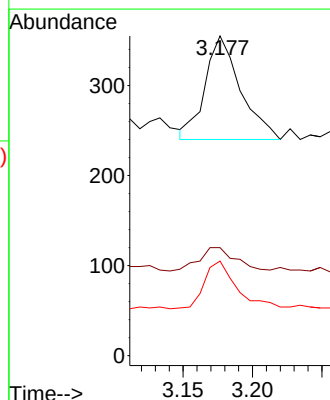
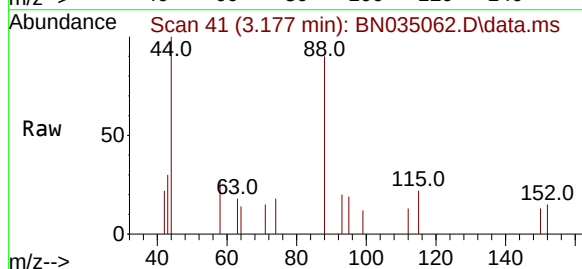
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BNA_N
ClientSampleId :
SSTDICC0.1

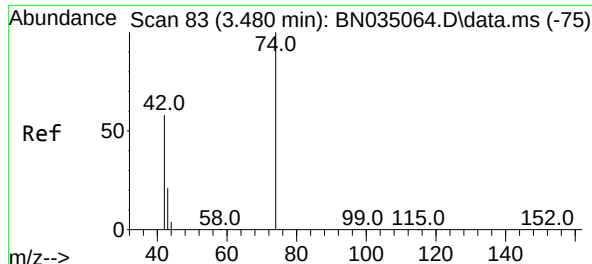
Tgt Ion:152 Resp: 1991
Ion Ratio Lower Upper
152 100
150 153.3 124.5 186.7
115 59.6 47.8 71.6



#2
1,4-Dioxane
Concen: 0.113 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion: 88 Resp: 204
Ion Ratio Lower Upper
88 100
43 23.0 16.9 25.3
58 42.6 39.0 58.4

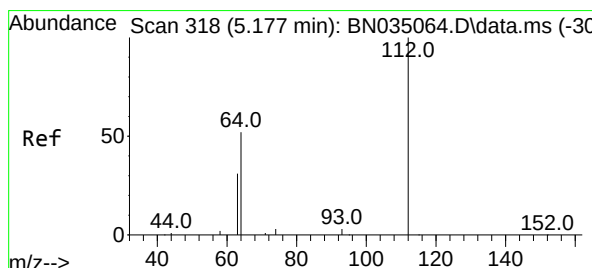
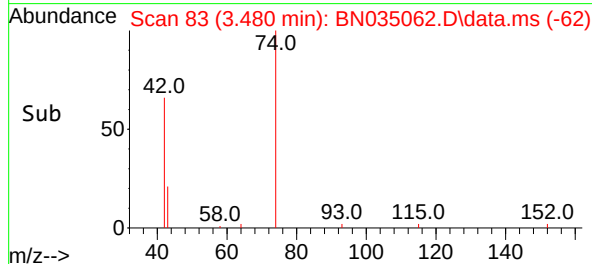
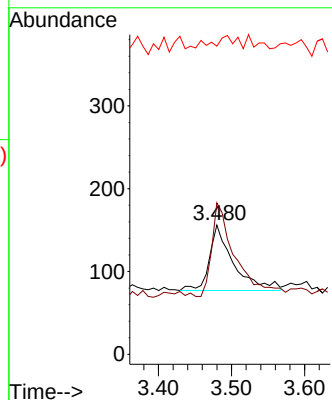
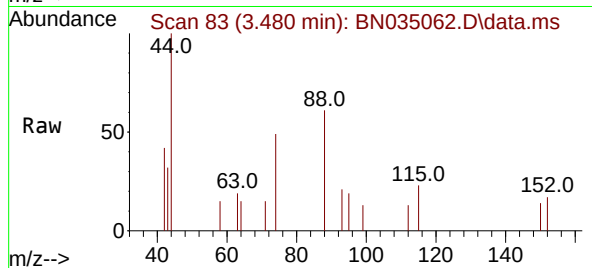




#3
n-Nitrosodimethylamine
Concen: 0.108 ng
RT: 3.480 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

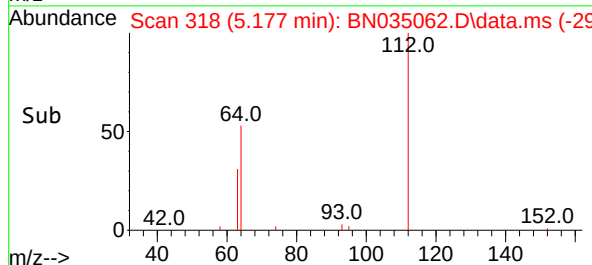
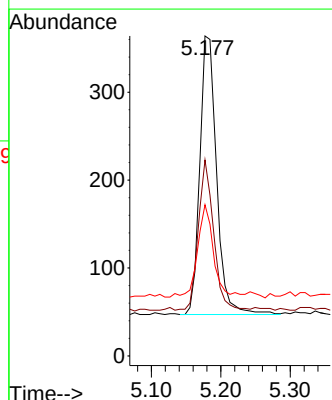
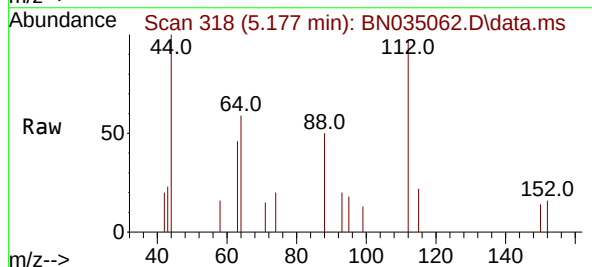
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

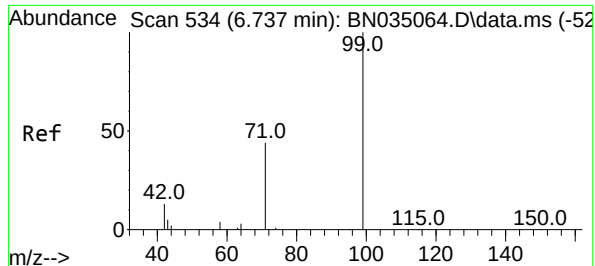
Tgt Ion: 42 Resp: 182
Ion Ratio Lower Upper
42 100
74 139.0 120.8 181.2
44 12.6 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.106 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion: 112 Resp: 534
Ion Ratio Lower Upper
112 100
64 48.9 39.7 59.5
63 31.1 23.0 34.4

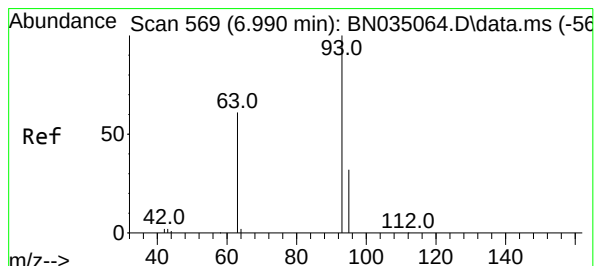
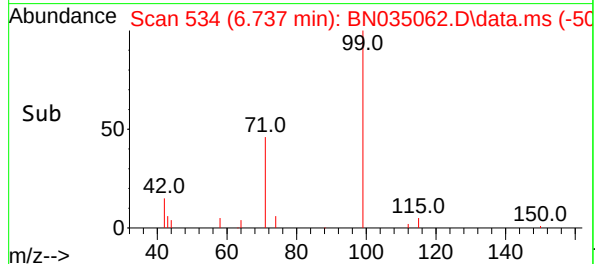
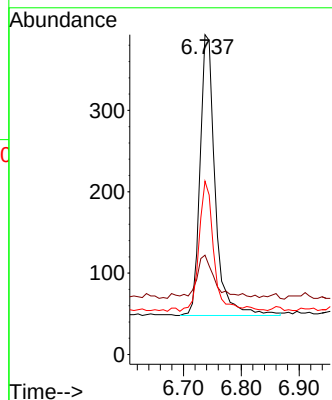
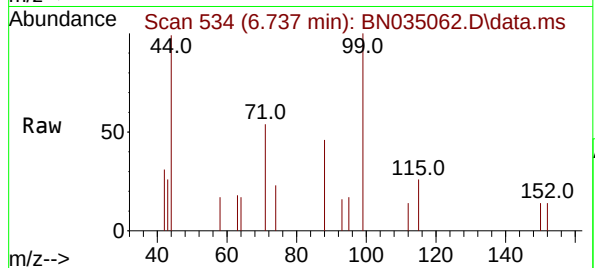




#5
Phenol-d6
Concen: 0.099 ng
RT: 6.737 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

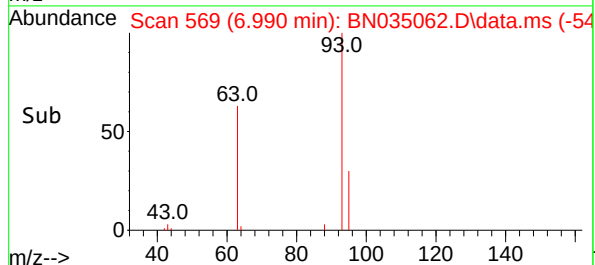
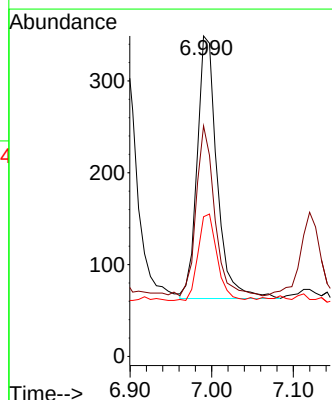
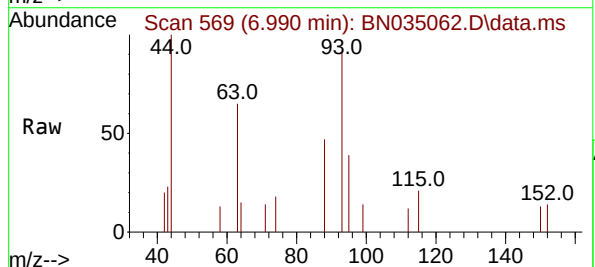
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

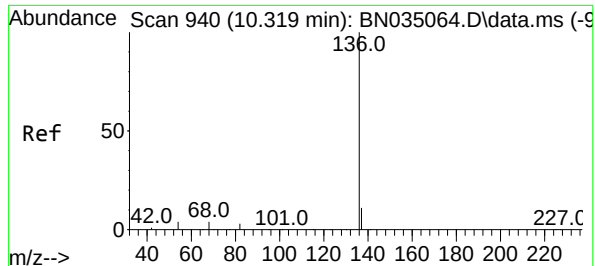
Tgt Ion: 99 Resp: 629
Ion Ratio Lower Upper
99 100
42 19.6 11.4 17.0#
71 44.5 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.102 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion: 93 Resp: 484
Ion Ratio Lower Upper
93 100
63 60.1 47.4 71.2
95 31.8 26.2 39.4

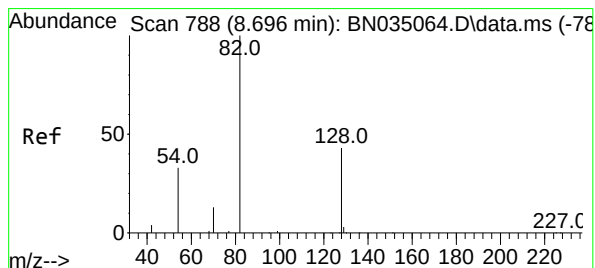
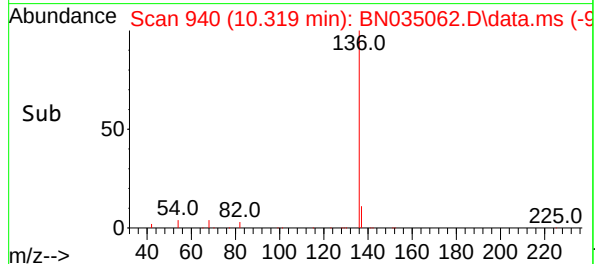
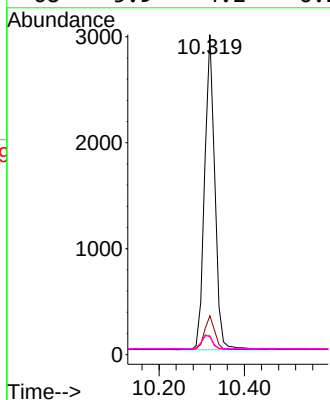
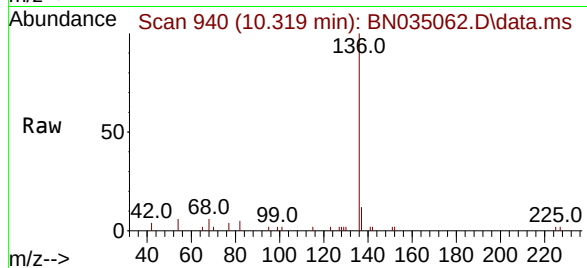




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

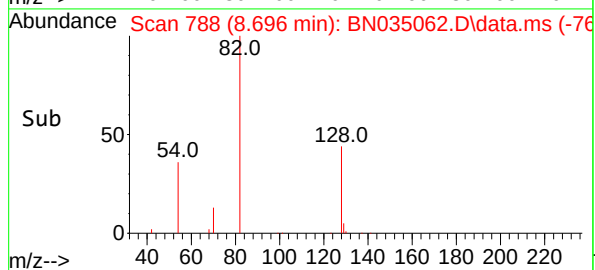
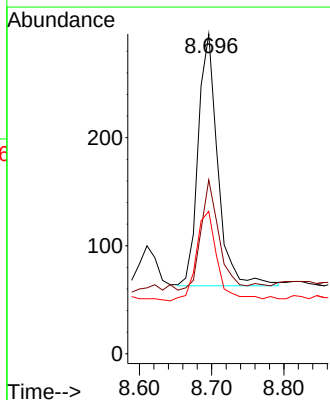
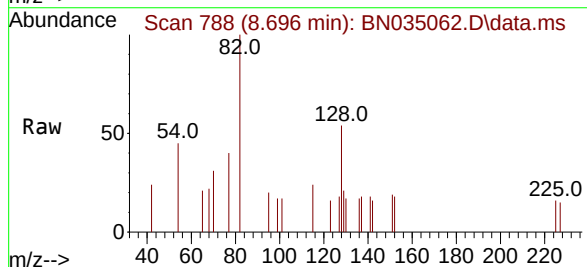
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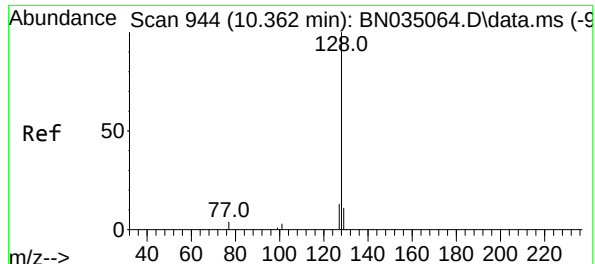
Tgt Ion:	136	Resp:	4930
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.8	14.8
54	5.6	4.0	6.0
68	5.9	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.103 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:	82	Resp:	441
Ion	Ratio	Lower	Upper
82	100		
128	54.4	36.5	54.7
54	44.6	28.7	43.1





#9

Naphthalene

Concen: 0.104 ng

RT: 10.362 min Scan# 944

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

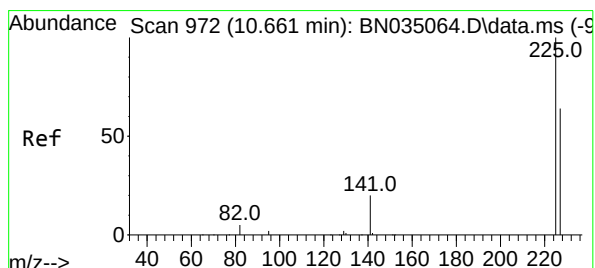
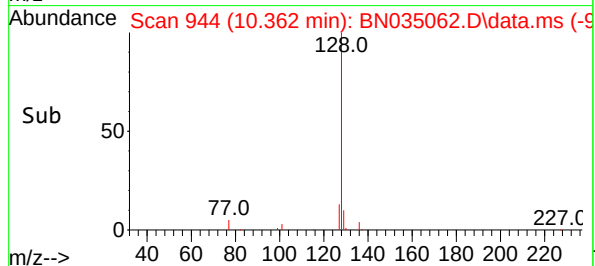
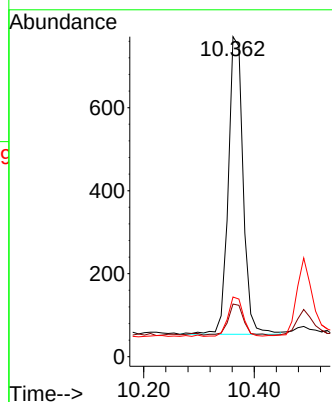
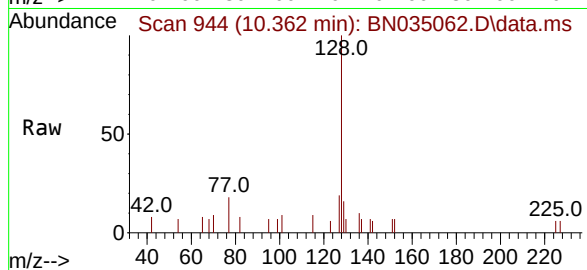
Tgt Ion:128 Resp: 1341

Ion Ratio Lower Upper

128 100

129 16.5 9.6 14.4#

127 18.7 11.6 17.4#



#10

Hexachlorobutadiene

Concen: 0.106 ng

RT: 10.660 min Scan# 972

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

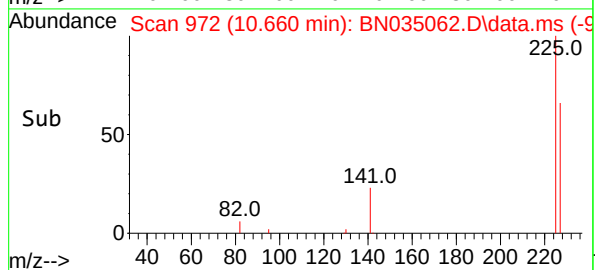
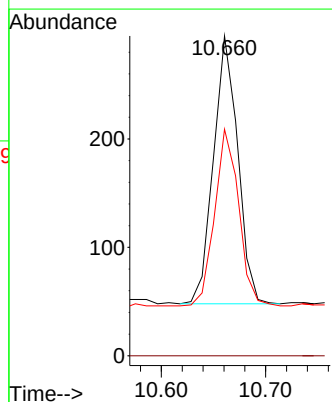
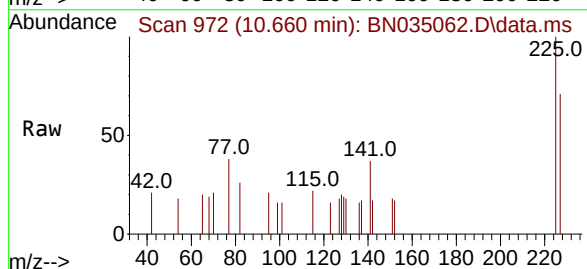
Tgt Ion:225 Resp: 399

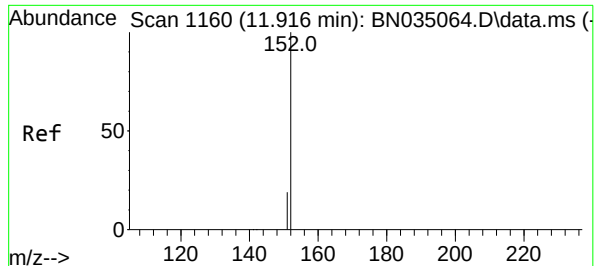
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 65.4 51.5 77.3

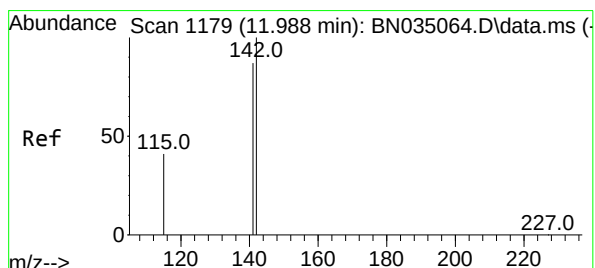
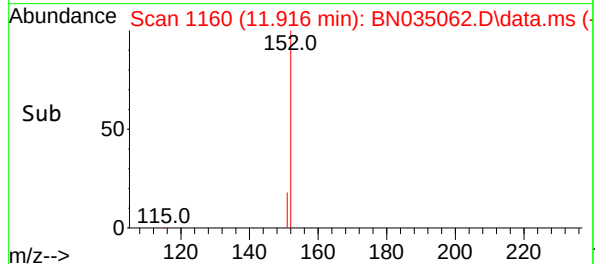
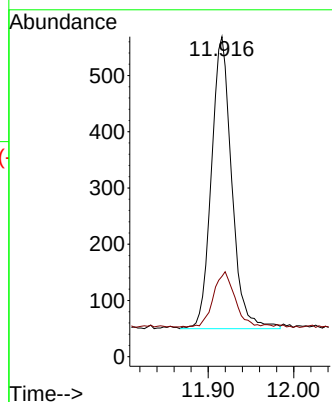
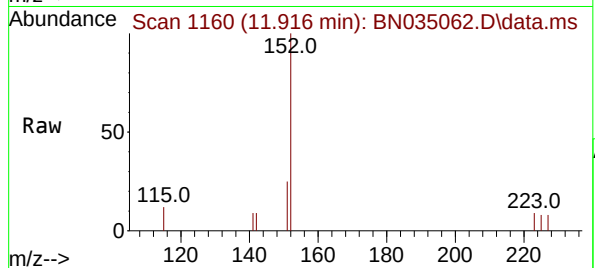




#11
2-Methylnaphthalene-d10
Concen: 0.097 ng
RT: 11.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

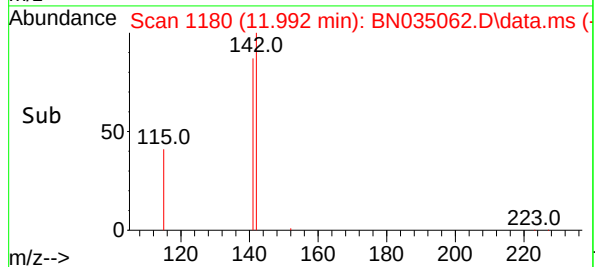
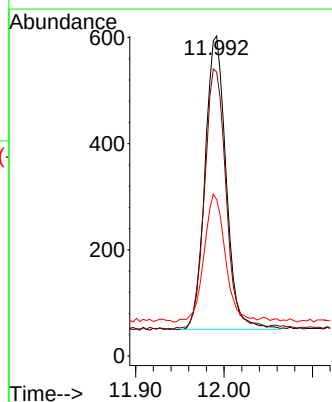
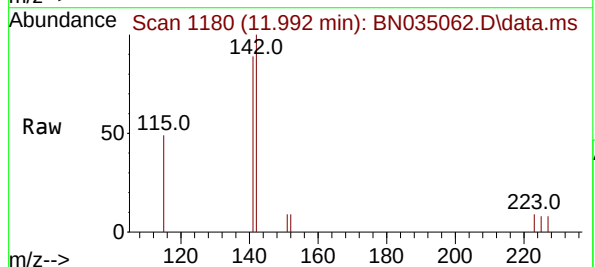
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

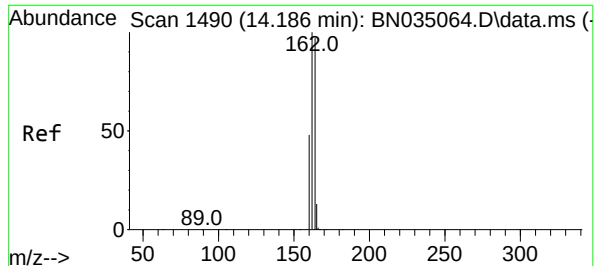
Tgt Ion:152 Resp: 855
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 11.992 min Scan# 1180
Delta R.T. 0.004 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:142 Resp: 914
Ion Ratio Lower Upper
142 100
141 88.7 70.1 105.1
115 48.9 34.4 51.6

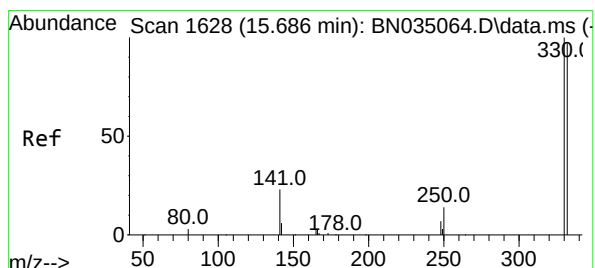
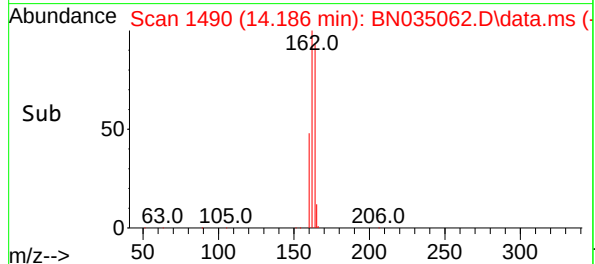
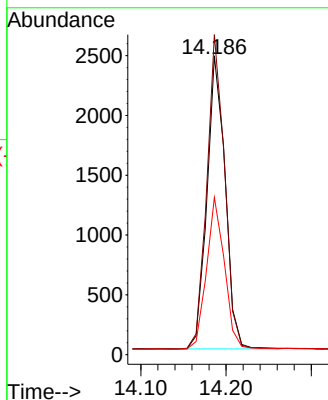
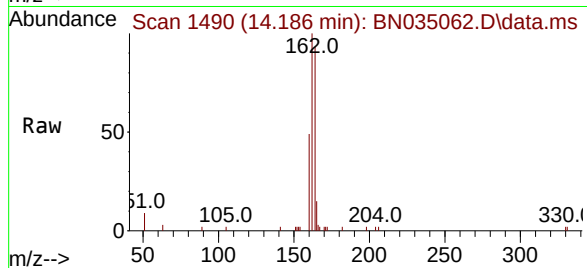




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

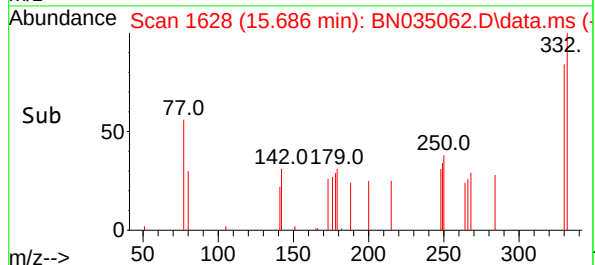
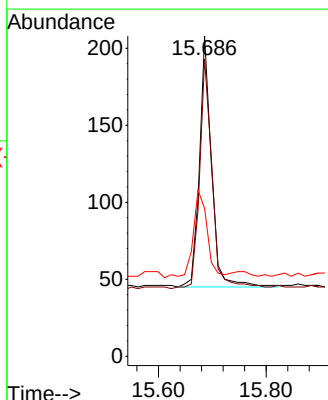
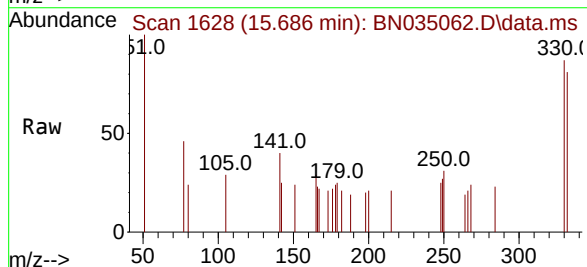
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

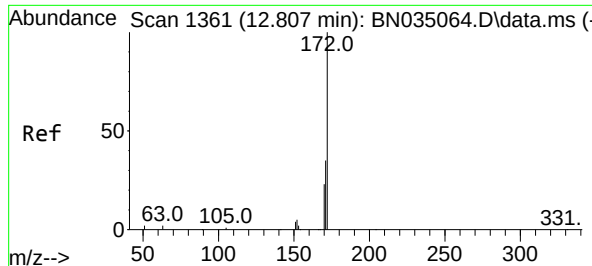
Tgt Ion:164 Resp: 3629
Ion Ratio Lower Upper
164 100
162 107.1 82.2 123.2
160 52.6 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.097 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:330 Resp: 255
Ion Ratio Lower Upper
330 100
332 90.6 76.9 115.3
141 37.6 29.6 44.4





#15

2-Fluorobiphenyl

Concen: 0.105 ng

RT: 12.807 min Scan# 1361

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

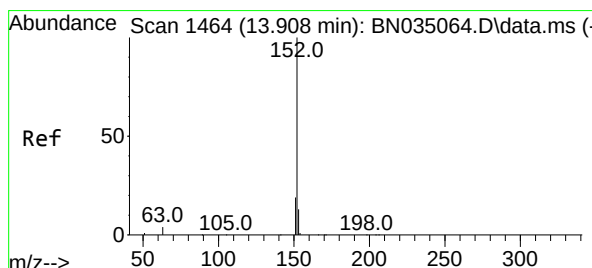
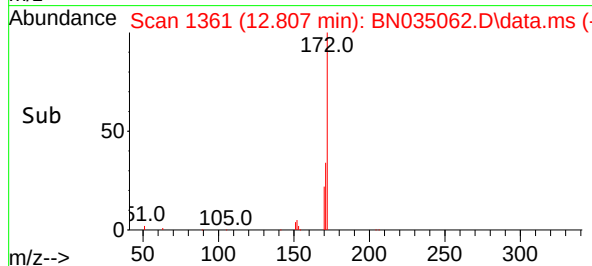
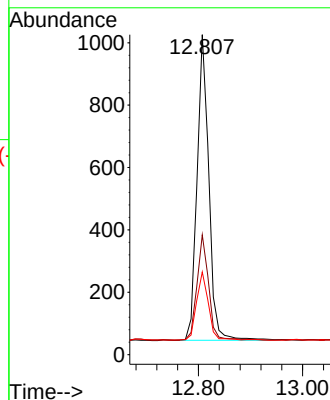
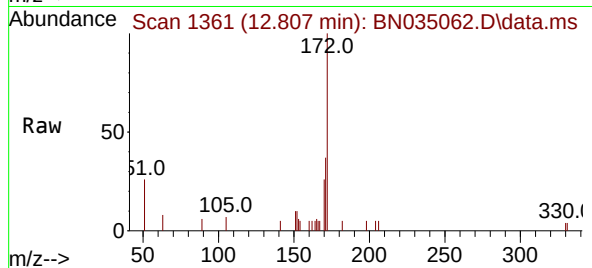
Tgt Ion:172 Resp: 1543

Ion Ratio Lower Upper

172 100

171 37.4 28.2 42.4

170 25.8 19.0 28.6



#16

Acenaphthylene

Concen: 0.100 ng

RT: 13.908 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

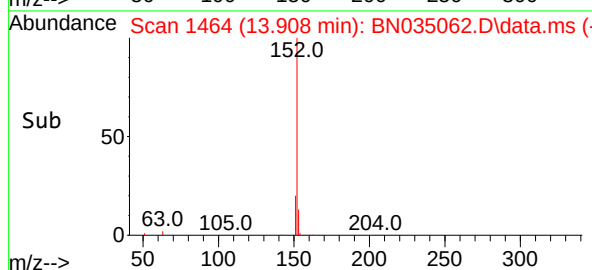
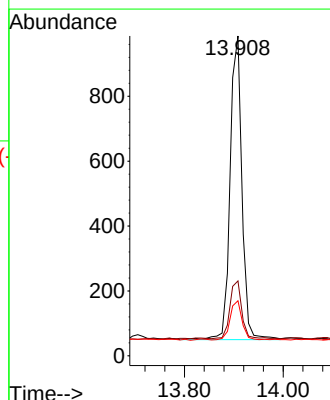
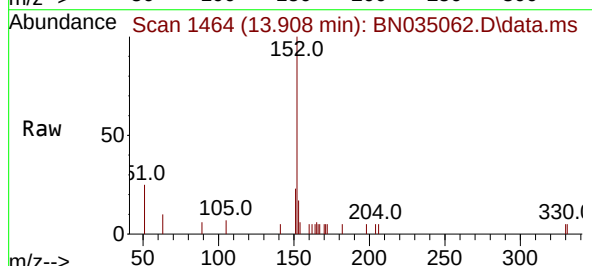
Tgt Ion:152 Resp: 1556

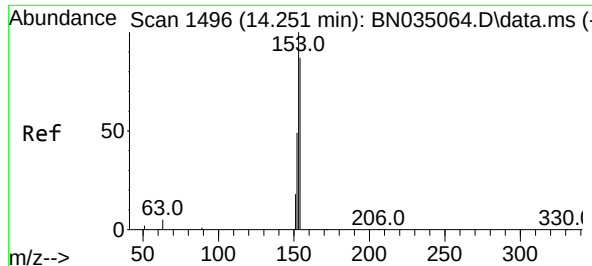
Ion Ratio Lower Upper

152 100

151 19.2 15.8 23.8

153 13.2 10.2 15.4

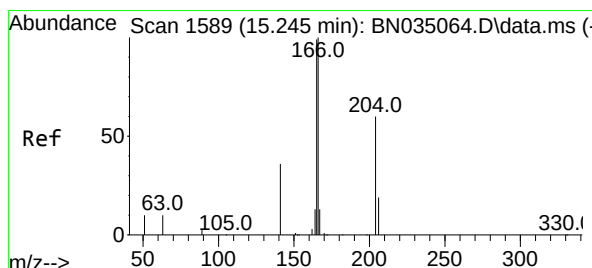
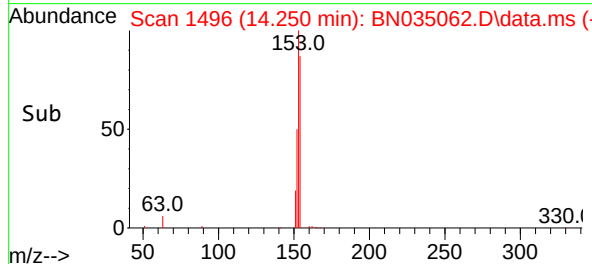
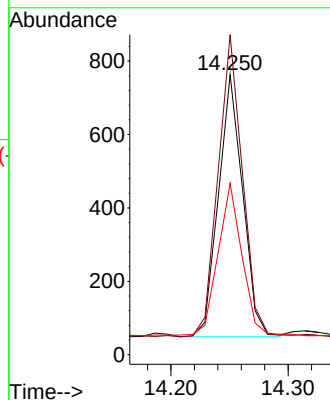
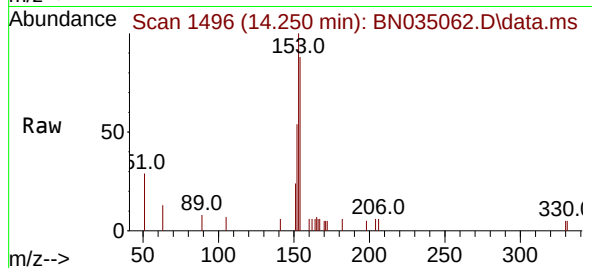




#17
Acenaphthene
Concen: 0.101 ng
RT: 14.250 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

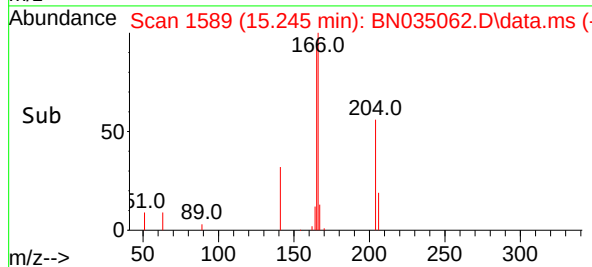
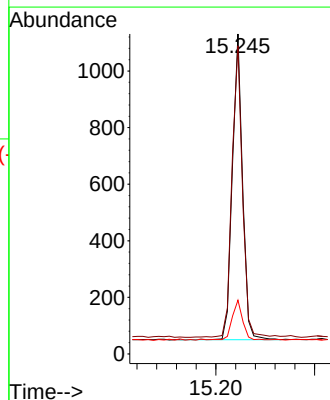
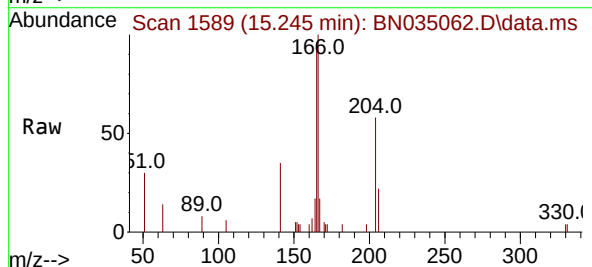
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

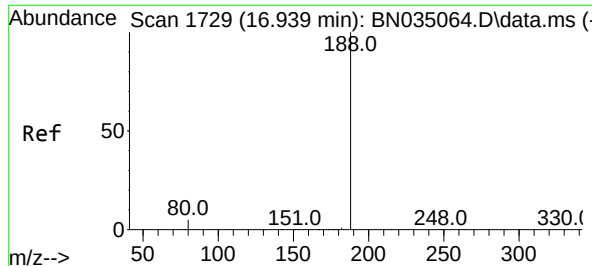
Tgt Ion:	154	Resp:	1024
Ion	Ratio	Lower	Upper
154	100		
153	116.6	91.6	137.4
152	57.9	45.8	68.6



#18
Fluorene
Concen: 0.103 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:	166	Resp:	1546
Ion	Ratio	Lower	Upper
166	100		
165	97.9	79.1	118.7
167	12.9	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.939 min Scan# 1729

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

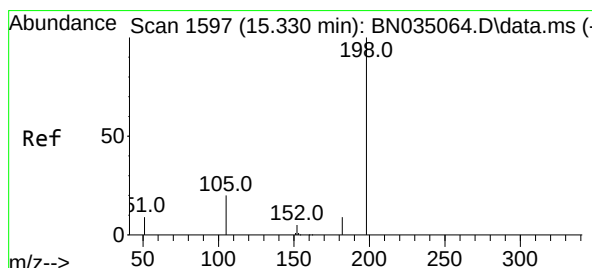
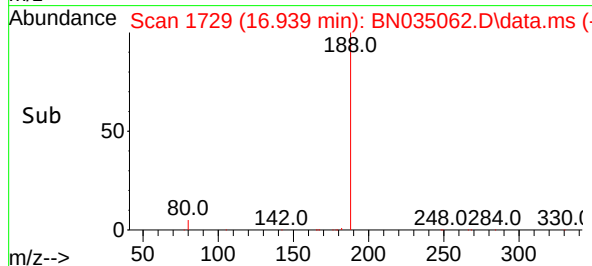
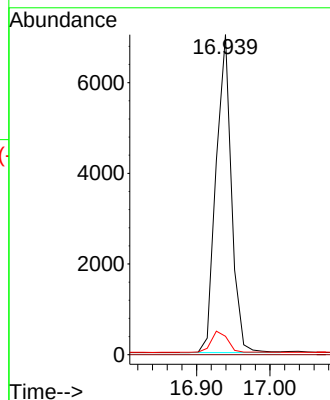
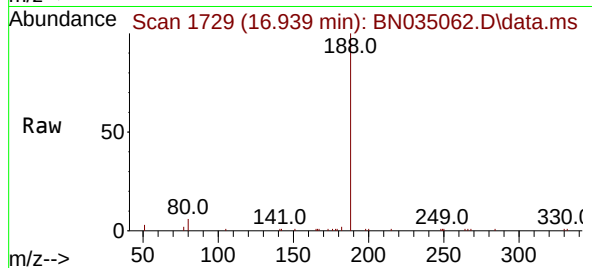
Tgt Ion:188 Resp: 10187

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.7 4.3 6.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.081 ng

RT: 15.330 min Scan# 1597

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

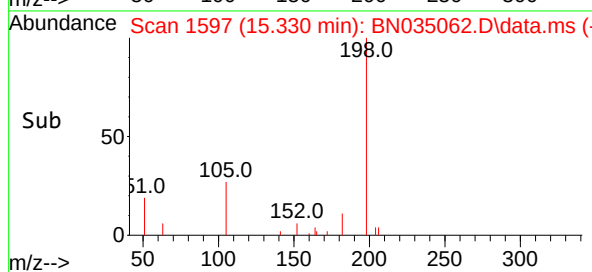
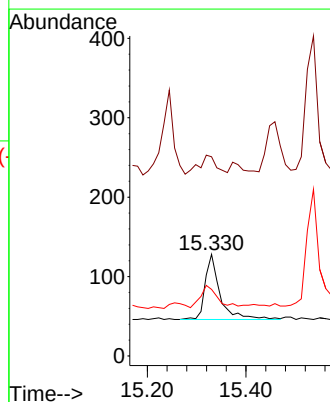
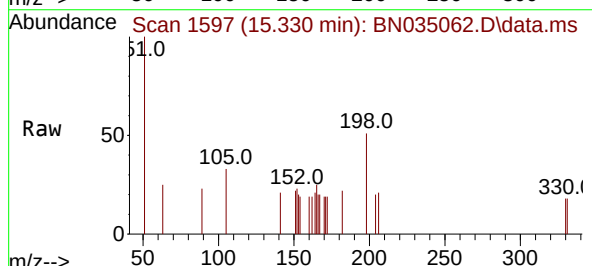
Tgt Ion:198 Resp: 172

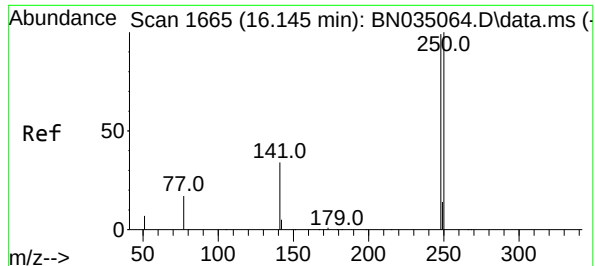
Ion Ratio Lower Upper

198 100

51 196.1 29.9 44.9#

105 65.6 23.7 35.5#

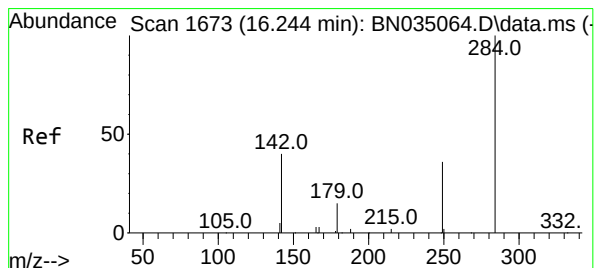
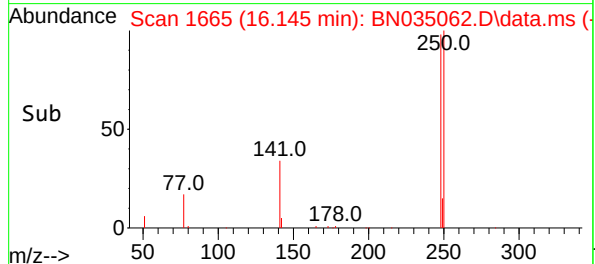
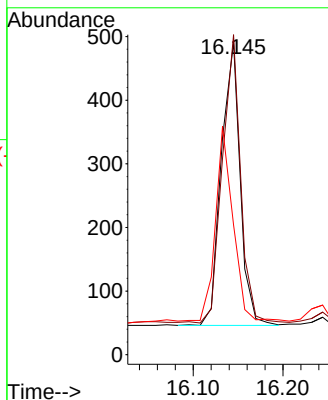
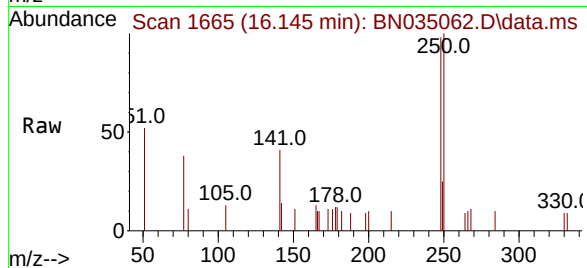




#21
4-Bromophenyl-phenylether
Concen: 0.100 ng
RT: 16.145 min Scan# 1665
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

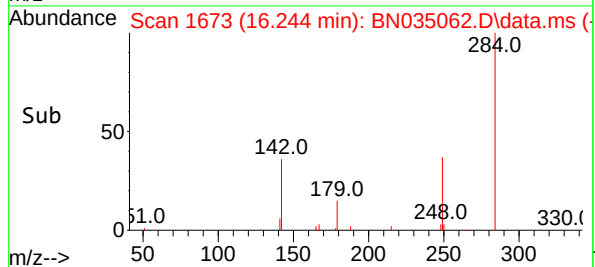
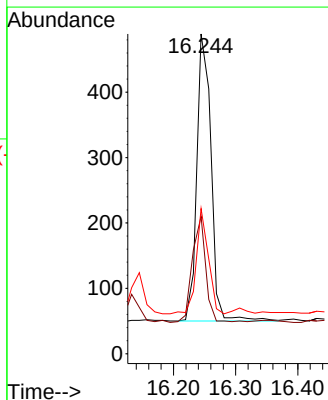
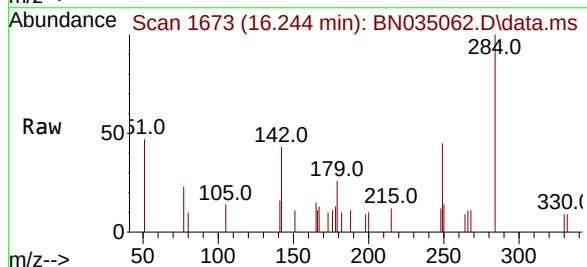
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

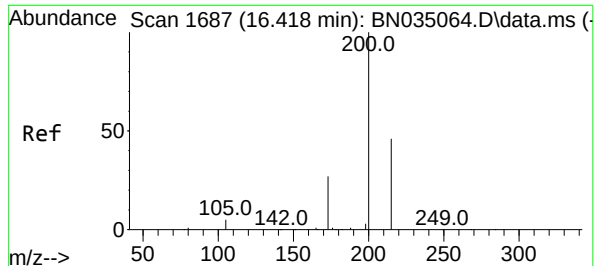
Tgt Ion:	248	Resp:	651
Ion	Ratio	Lower	Upper
248	100		
250	102.4	81.2	121.8
141	41.5	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.104 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:	284	Resp:	701
Ion	Ratio	Lower	Upper
284	100		
142	34.5	28.2	42.4
249	31.4	26.2	39.2

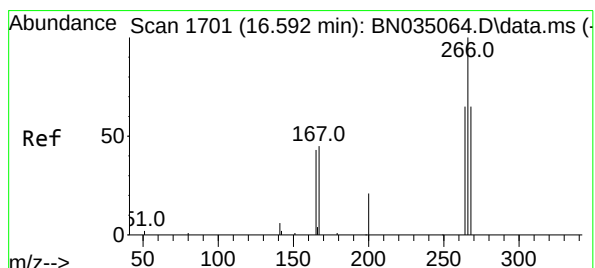
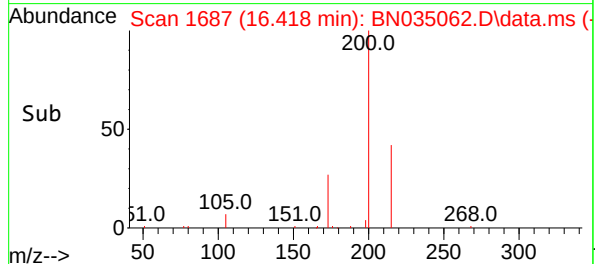
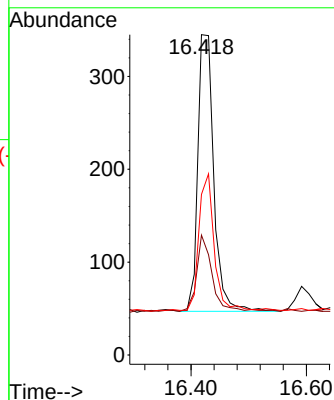
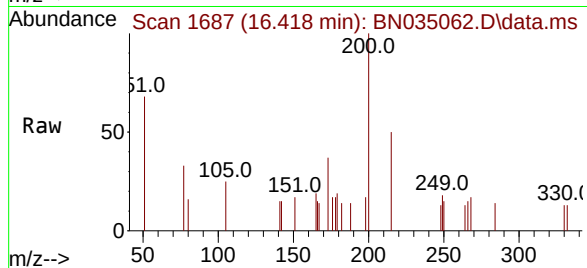




#23
Atrazine
Concen: 0.099 ng
RT: 16.418 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

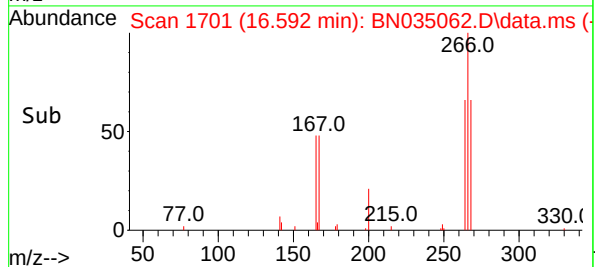
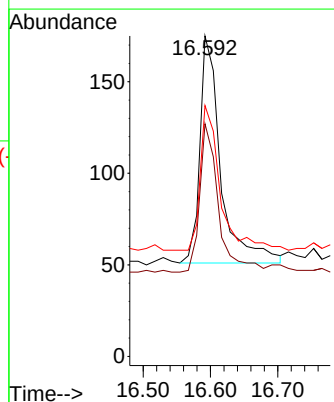
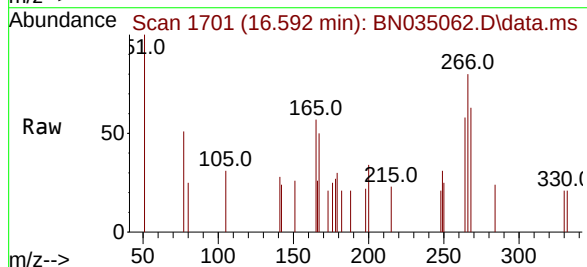
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

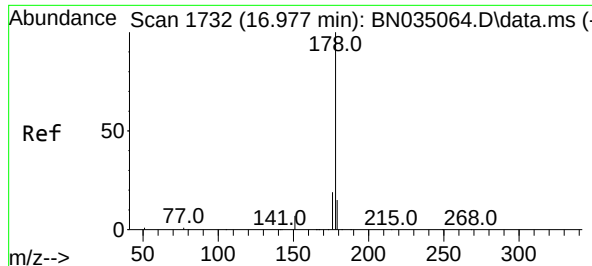
Tgt Ion:200 Resp: 577
Ion Ratio Lower Upper
200 100
173 37.4 22.6 33.8#
215 50.1 37.8 56.6



#24
Pentachlorophenol
Concen: 0.085 ng
RT: 16.592 min Scan# 1701
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:266 Resp: 269
Ion Ratio Lower Upper
266 100
264 58.4 49.4 74.0
268 60.2 52.6 79.0





#25

Phenanthrene

Concen: 0.102 ng

RT: 16.977 min Scan# 1732

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

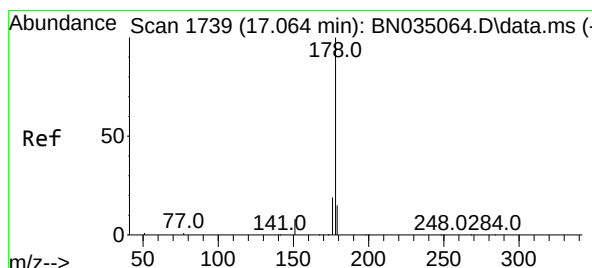
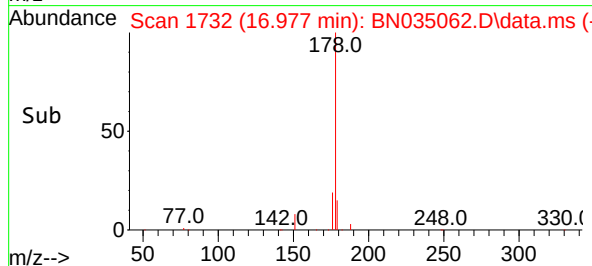
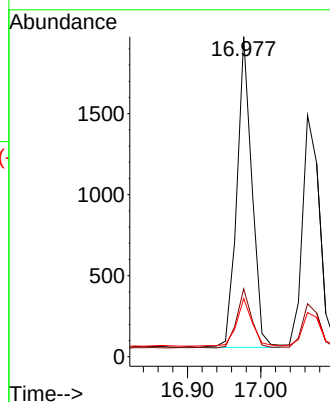
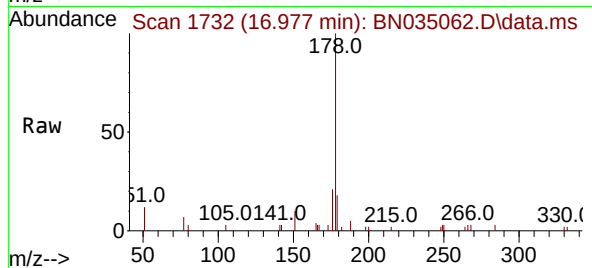
Tgt Ion:178 Resp: 2723

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

179 15.9 12.6 18.8



#26

Anthracene

Concen: 0.095 ng

RT: 17.063 min Scan# 1739

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

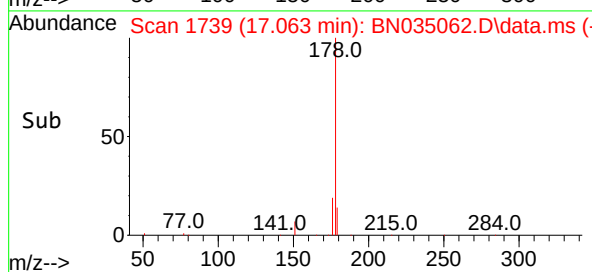
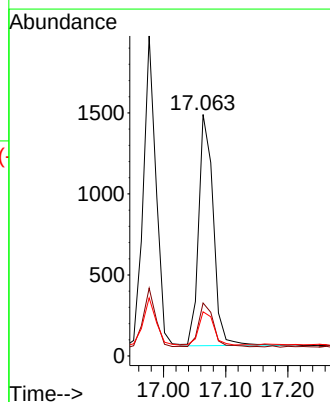
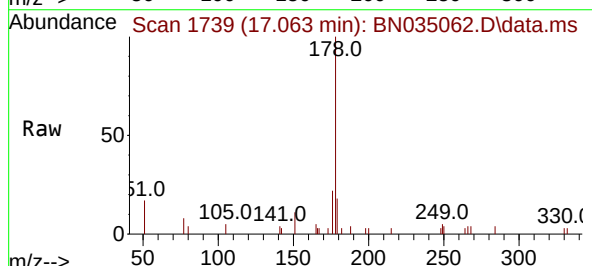
Tgt Ion:178 Resp: 2335

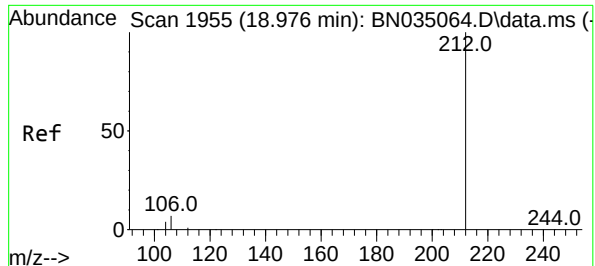
Ion Ratio Lower Upper

178 100

176 19.6 14.6 22.0

179 14.8 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.098 ng

RT: 18.976 min Scan# 1955

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

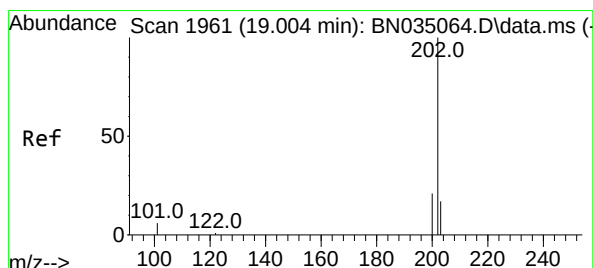
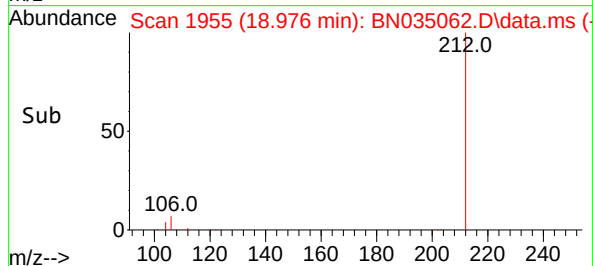
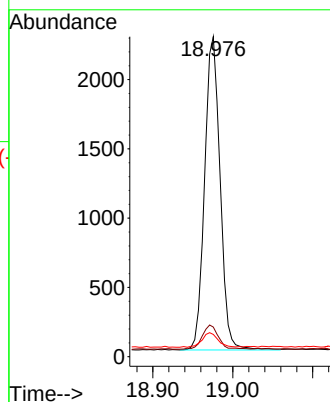
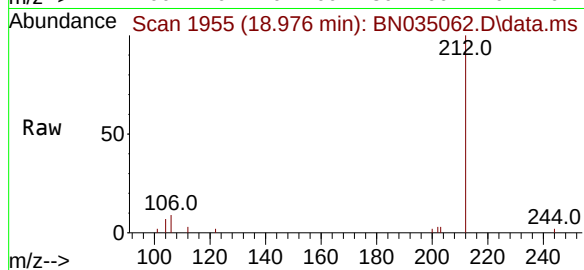
Tgt Ion:212 Resp: 3046

Ion Ratio Lower Upper

212 100

106 7.8 6.0 9.0

104 4.8 3.5 5.3



#28

Fluoranthene

Concen: 0.096 ng

RT: 19.003 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

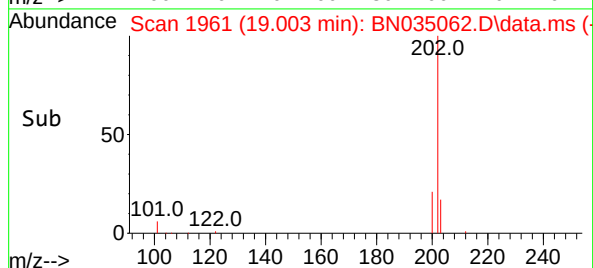
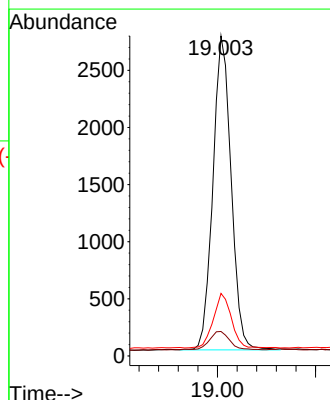
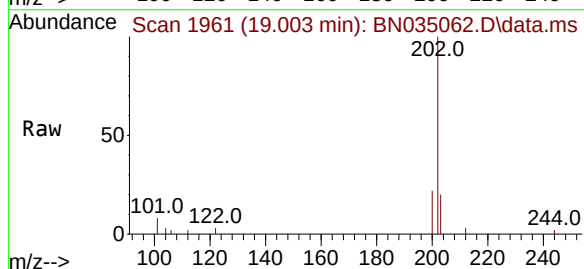
Tgt Ion:202 Resp: 3554

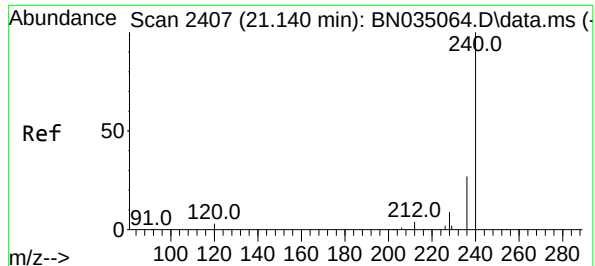
Ion Ratio Lower Upper

202 100

101 6.7 5.2 7.8

203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.131 min Scan# 2406

Delta R.T. -0.009 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

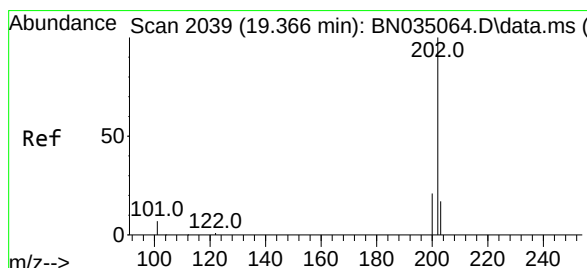
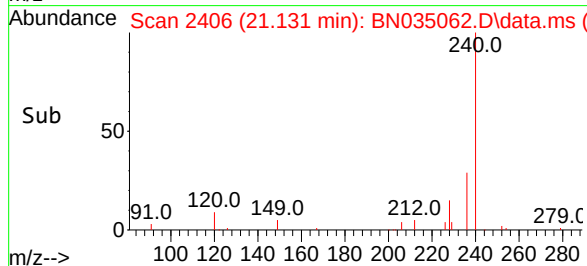
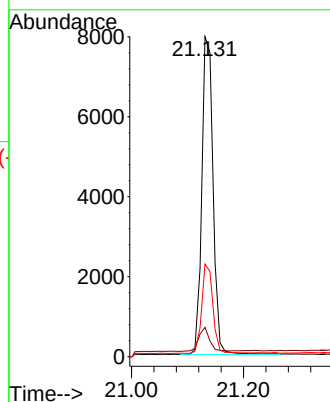
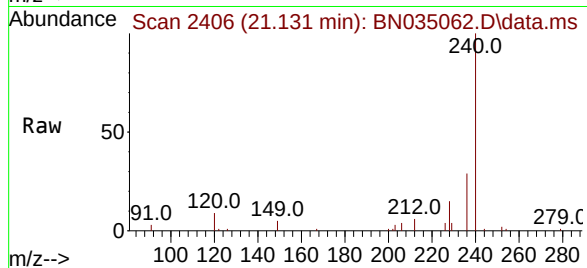
Tgt Ion:240 Resp: 11121

Ion Ratio Lower Upper

240 100

120 9.1 3.8 5.6#

236 28.9 22.2 33.2



#30

Pyrene

Concen: 0.101 ng

RT: 19.366 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

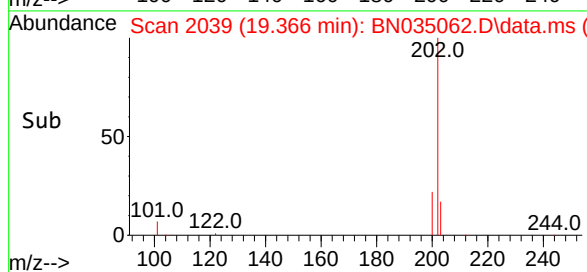
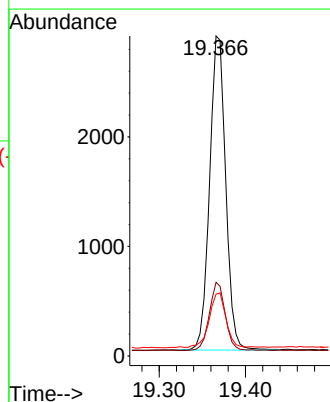
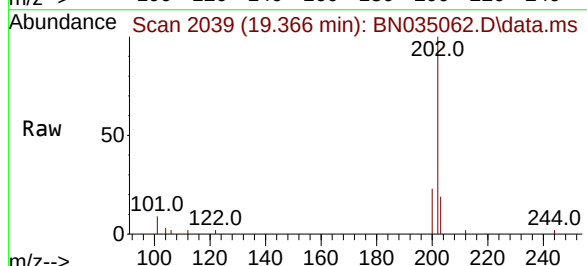
Tgt Ion:202 Resp: 3722

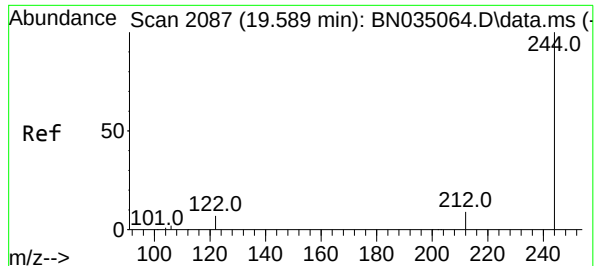
Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

203 18.8 14.2 21.4

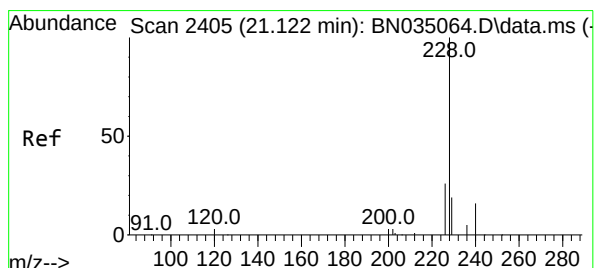
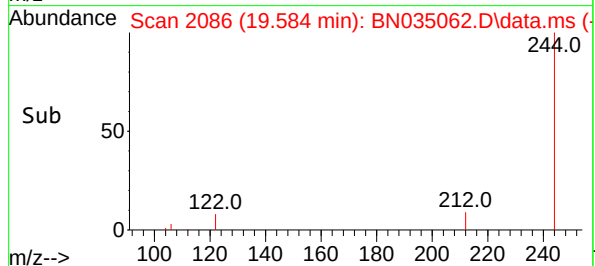
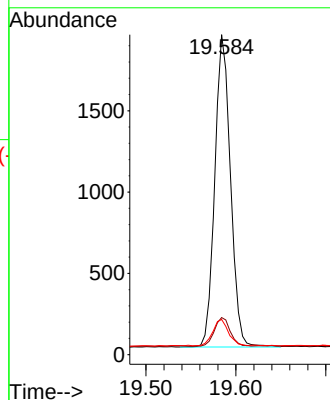
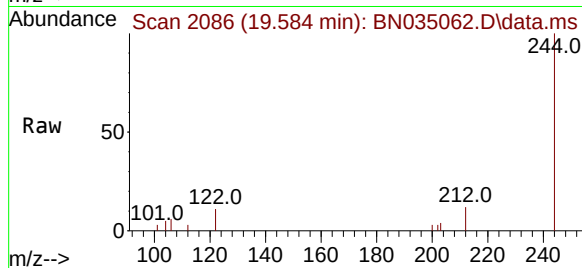




#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.584 min Scan# 2087
Delta R.T. -0.005 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

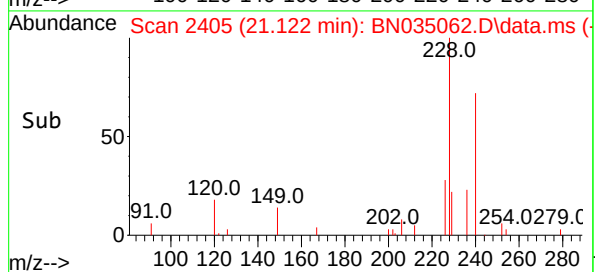
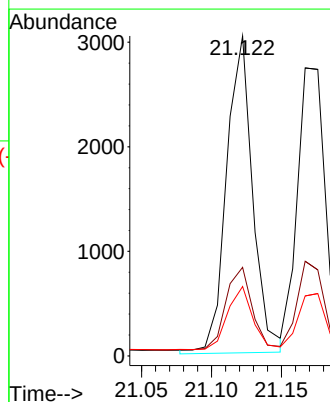
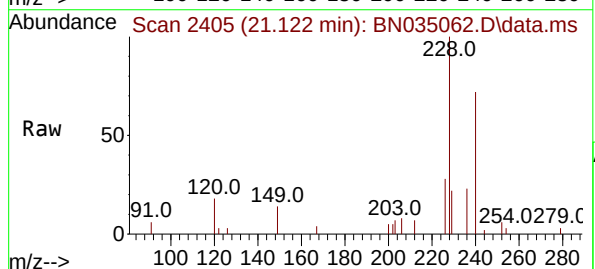
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

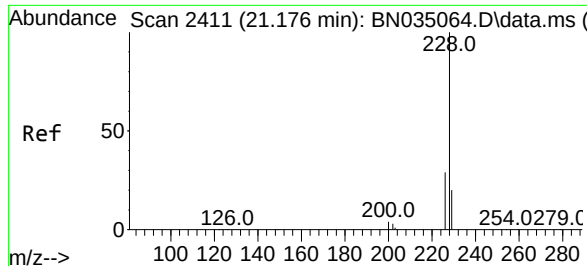
Tgt Ion:244 Resp: 2331
Ion Ratio Lower Upper
244 100
212 11.6 7.6 11.4#
122 11.0 6.1 9.1#



#32
Benzo(a)anthracene
Concen: 0.102 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035062.D
Acq: 13 Nov 2024 12:40

Tgt Ion:228 Resp: 3952
Ion Ratio Lower Upper
228 100
226 27.7 21.4 32.0
229 21.7 15.7 23.5





#33

Chrysene

Concen: 0.102 ng

RT: 21.167 min Scan# 2411

Delta R.T. -0.009 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

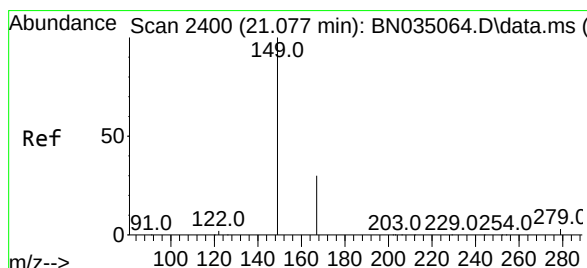
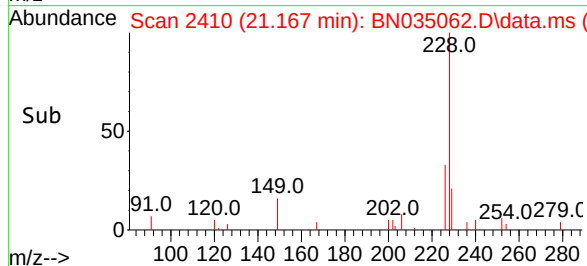
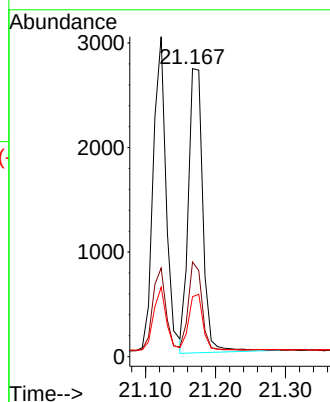
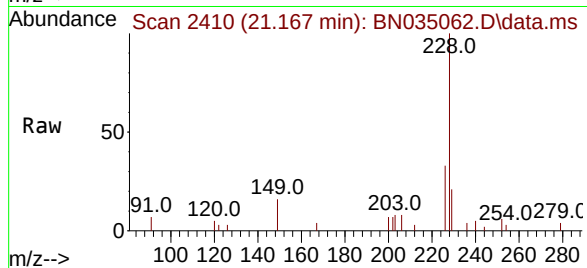
Tgt Ion:228 Resp: 3918

Ion Ratio Lower Upper

228 100

226 32.9 23.7 35.5

229 20.8 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.112 ng

RT: 21.077 min Scan# 2400

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

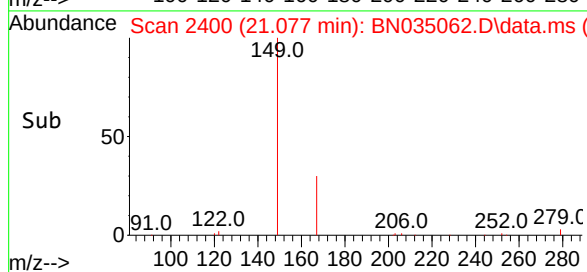
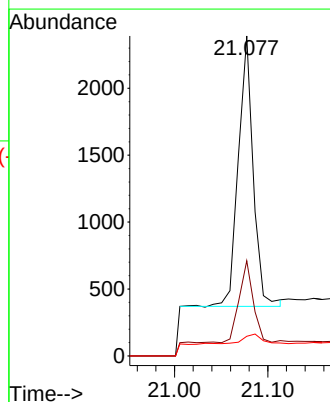
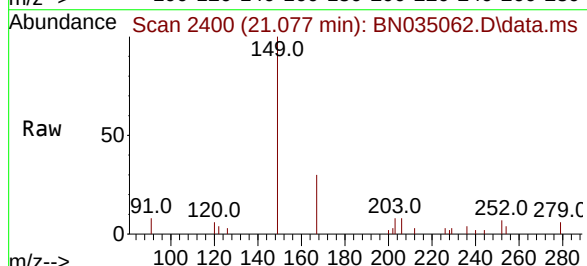
Tgt Ion:149 Resp: 2250

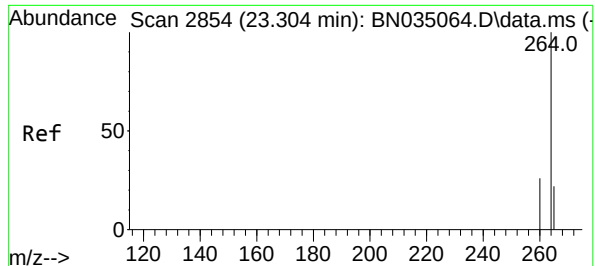
Ion Ratio Lower Upper

149 100

167 29.3 23.2 34.8

279 5.8 3.2 4.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.304 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

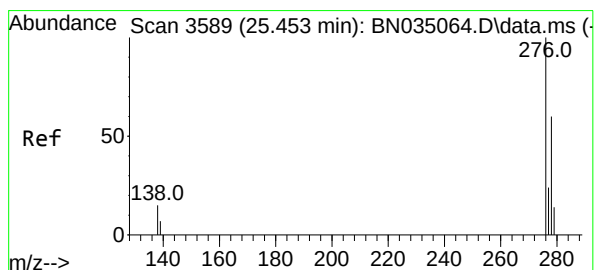
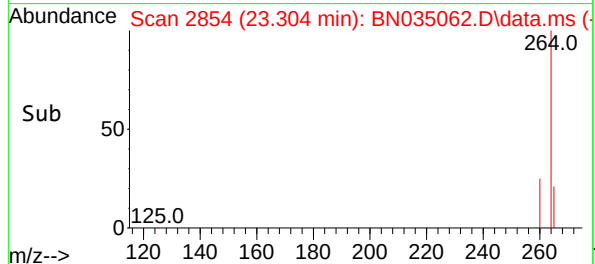
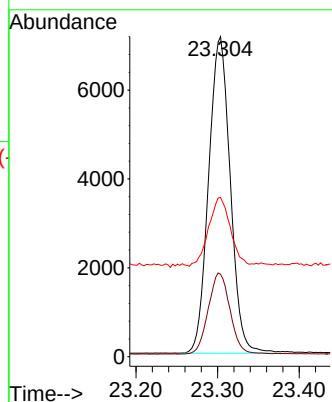
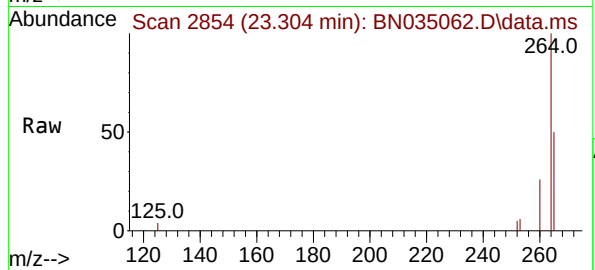
Tgt Ion:264 Resp: 13104

Ion Ratio Lower Upper

264 100

260 25.7 20.9 31.3

265 49.8 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.101 ng

RT: 25.455 min Scan# 3590

Delta R.T. 0.003 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

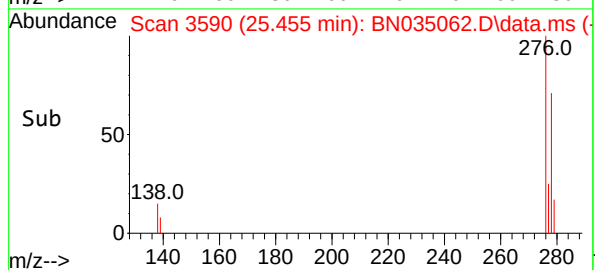
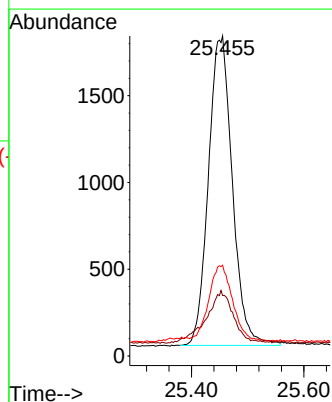
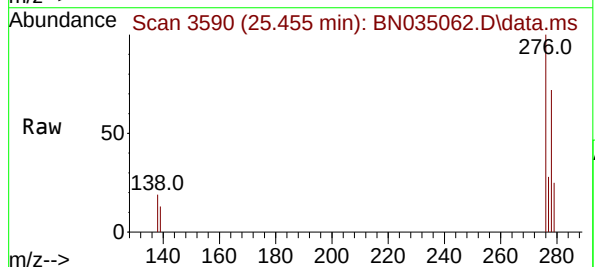
Tgt Ion:276 Resp: 5271

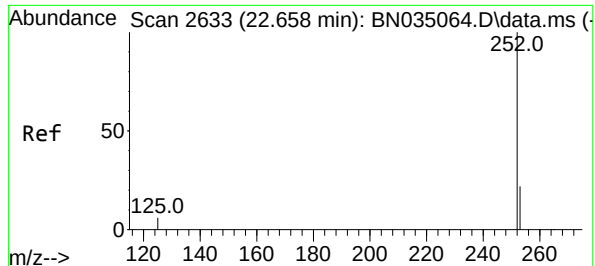
Ion Ratio Lower Upper

276 100

138 19.3 13.0 19.4

277 23.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.099 ng

RT: 22.657 min Scan# 2633

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

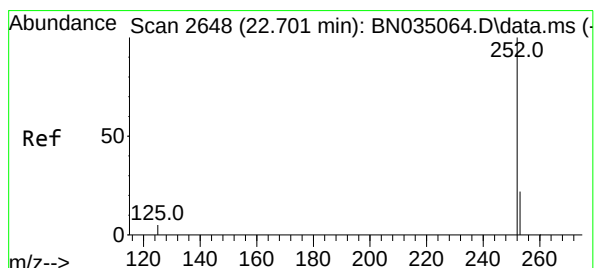
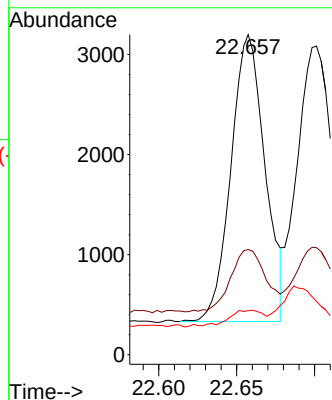
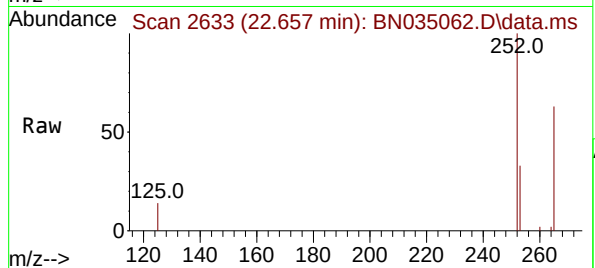
Tgt Ion:252 Resp: 4345

Ion Ratio Lower Upper

252 100

253 32.9 19.3 28.9#

125 13.8 6.2 9.2#



#38

Benzo(k)fluoranthene

Concen: 0.100 ng

RT: 22.701 min Scan# 2648

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

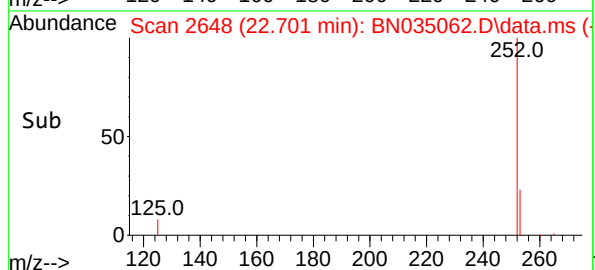
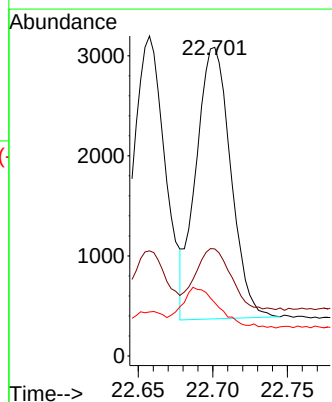
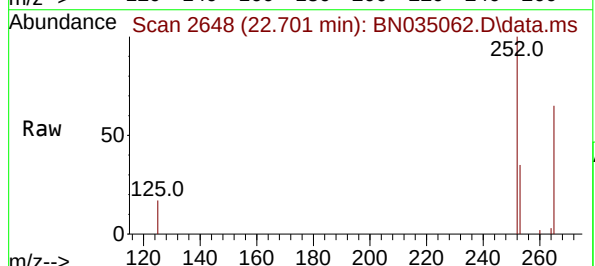
Tgt Ion:252 Resp: 4395

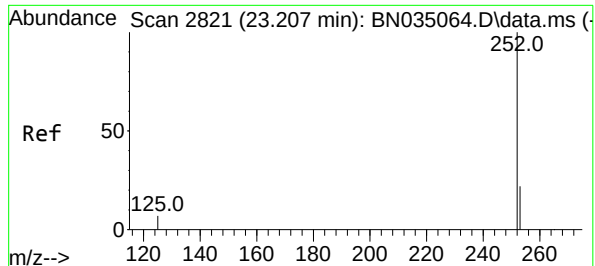
Ion Ratio Lower Upper

252 100

253 34.7 19.5 29.3#

125 17.3 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.099 ng

RT: 23.204 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

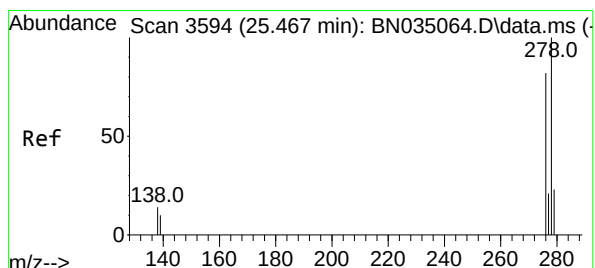
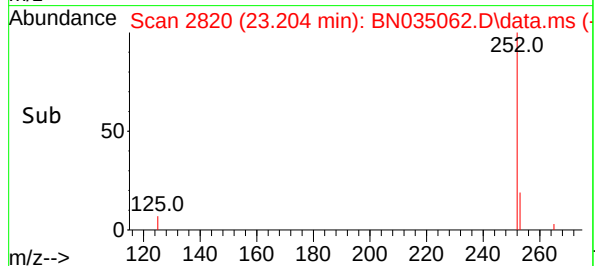
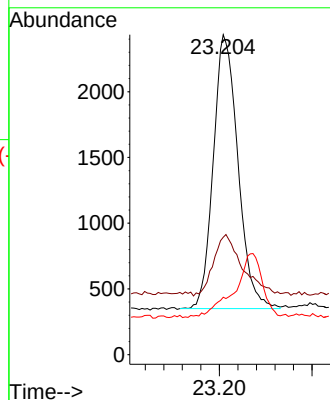
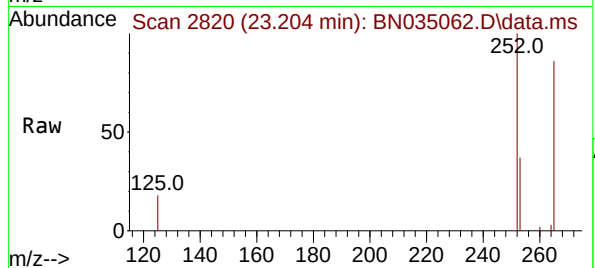
Tgt Ion:252 Resp: 3841

Ion Ratio Lower Upper

252 100

253 36.7 20.1 30.1#

125 18.0 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.099 ng

RT: 25.467 min Scan# 3594

Delta R.T. -0.000 min

Lab File: BN035062.D

Acq: 13 Nov 2024 12:40

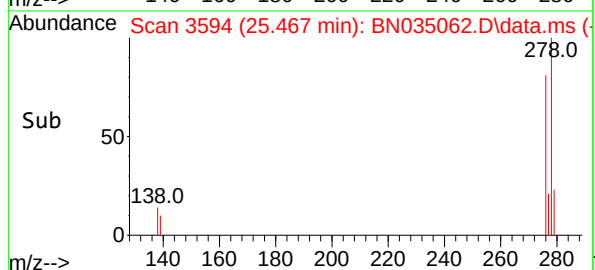
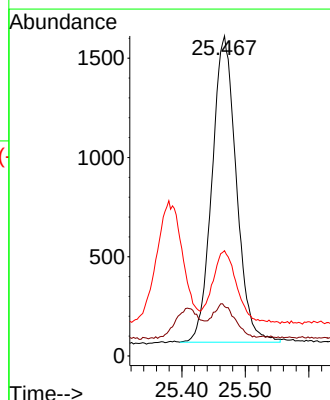
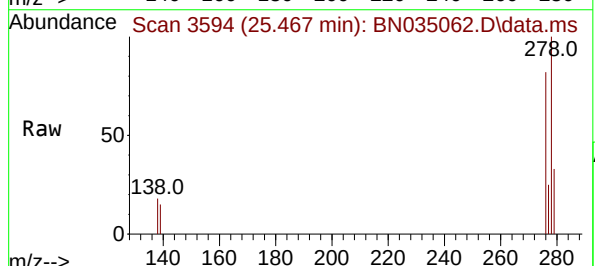
Tgt Ion:278 Resp: 4089

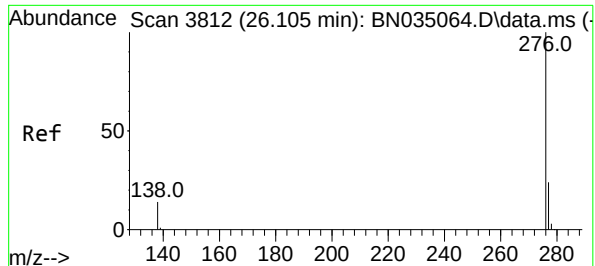
Ion Ratio Lower Upper

278 100

139 15.4 9.3 13.9#

279 32.9 19.7 29.5#





#41

Benzo(g,h,i)perylene

Concen: 0.103 ng

RT: 26.099 min Scan# 3810

Delta R.T. -0.006 min

Lab File: BN035062.D

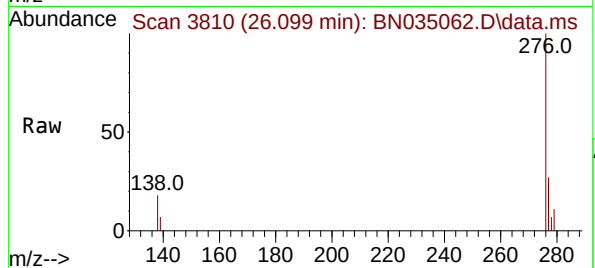
Acq: 13 Nov 2024 12:40

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



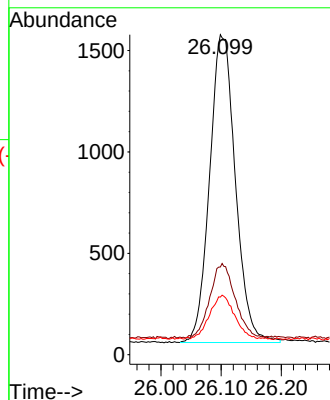
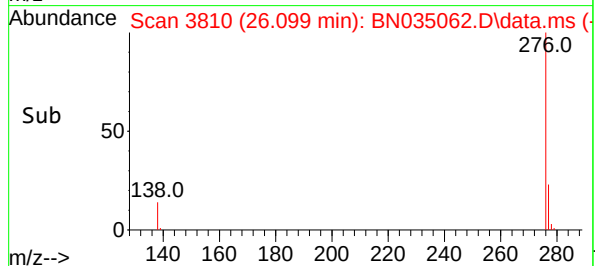
Tgt Ion:276 Resp: 4521

Ion Ratio Lower Upper

276 100

277 27.4 19.9 29.9

138 18.0 11.6 17.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035063.D
 Acq On : 13 Nov 2024 13:16
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Nov 13 16:43:13 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

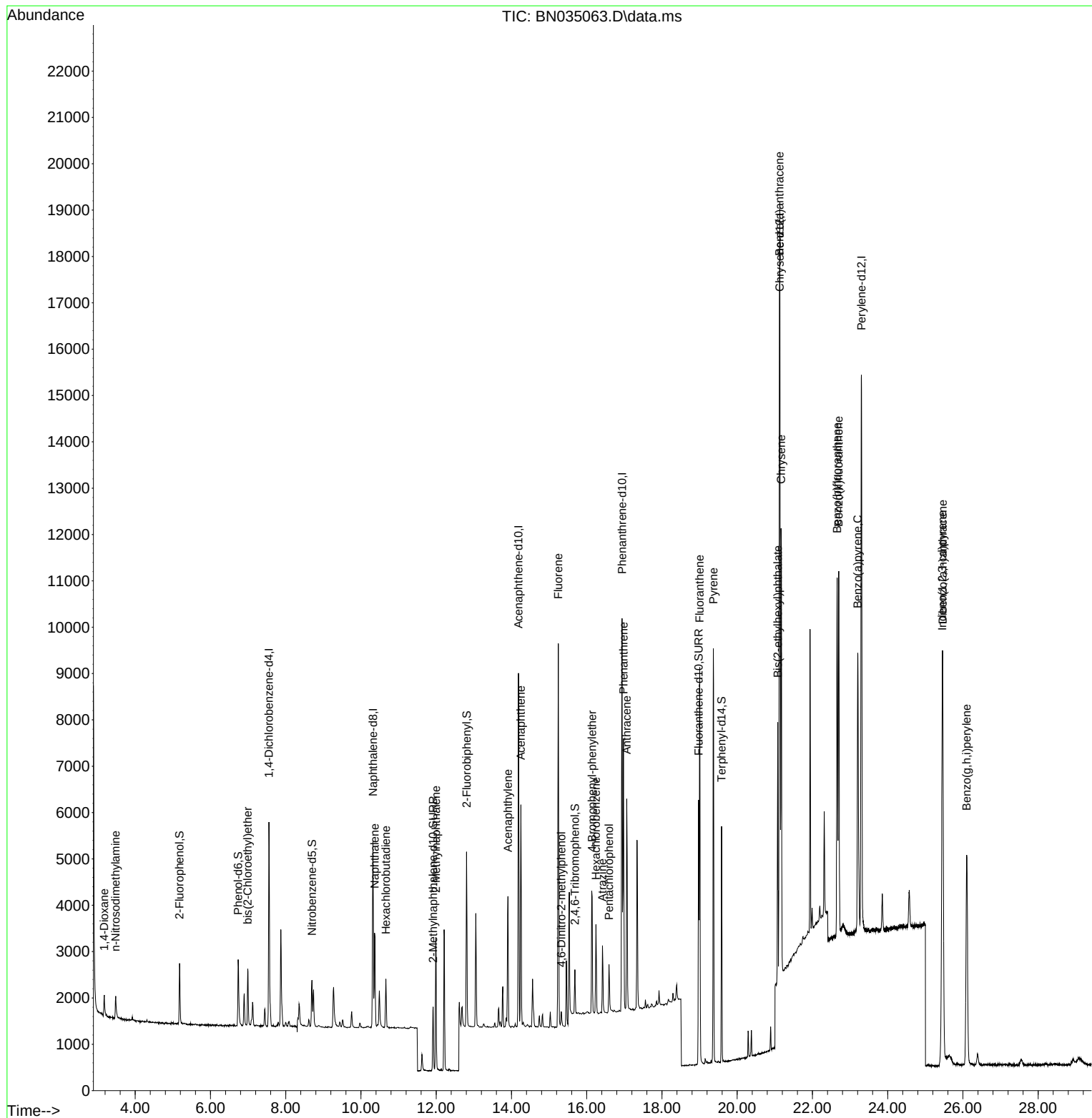
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2177	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	5449	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	4114	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	11179	0.400	ng	0.00
29) Chrysene-d12	21.131	240	12508	0.400	ng	# 0.00
35) Perylene-d12	23.301	264	14643	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	1131	0.205	ng	0.00
5) Phenol-d6	6.737	99	1392	0.201	ng	0.00
8) Nitrobenzene-d5	8.696	82	921	0.195	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	1861	0.192	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	538	0.181	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	3241	0.194	ng	0.00
27) Fluoranthene-d10	18.976	212	6587	0.192	ng	0.00
31) Terphenyl-d14	19.584	244	5123	0.195	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	416	0.210	ng	Qvalue 94
3) n-Nitrosodimethylamine	3.480	42	357	0.194	ng	# 97
6) bis(2-Chloroethyl)ether	6.990	93	1033	0.199	ng	99
9) Naphthalene	10.362	128	2748	0.193	ng	96
10) Hexachlorobutadiene	10.661	225	832	0.200	ng	# 99
12) 2-Methylnaphthalene	11.992	142	2039	0.194	ng	97
16) Acenaphthylene	13.908	152	3325	0.189	ng	100
17) Acenaphthene	14.251	154	2219	0.193	ng	99
18) Fluorene	15.245	166	3273	0.193	ng	99
20) 4,6-Dinitro-2-methylph...	15.330	198	376	0.162	ng	# 44
21) 4-Bromophenyl-phenylether	16.145	248	1341	0.188	ng	97
22) Hexachlorobenzene	16.244	284	1445	0.195	ng	99
23) Atrazine	16.418	200	1271	0.199	ng	96
24) Pentachlorophenol	16.592	266	562	0.163	ng	99
25) Phenanthrene	16.977	178	5664	0.193	ng	99
26) Anthracene	17.064	178	5051	0.187	ng	98
28) Fluoranthene	19.004	202	7690	0.190	ng	100
30) Pyrene	19.366	202	8067	0.194	ng	99
32) Benzo(a)anthracene	21.122	228	8558	0.196	ng	99
33) Chrysene	21.167	228	8540	0.198	ng	97
34) Bis(2-ethylhexyl)phtha...	21.077	149	4712	0.208	ng	99
36) Indeno(1,2,3-cd)pyrene	25.450	276	11095	0.190	ng	99
37) Benzo(b)fluoranthene	22.657	252	9315	0.189	ng	# 94
38) Benzo(k)fluoranthene	22.698	252	9432	0.191	ng	# 92
39) Benzo(a)pyrene	23.204	252	8302	0.192	ng	# 92
40) Dibenzo(a,h)anthracene	25.464	278	8750	0.189	ng	95
41) Benzo(g,h,i)perylene	26.099	276	9431	0.192	ng	98

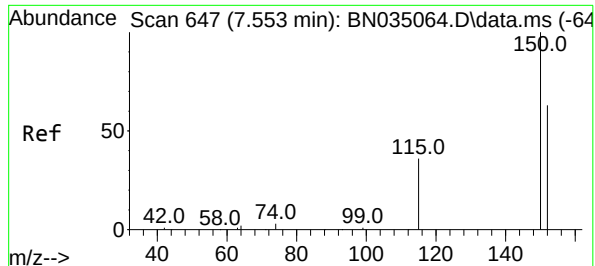
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035063.D
Acq On : 13 Nov 2024 13:16
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 13 16:43:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

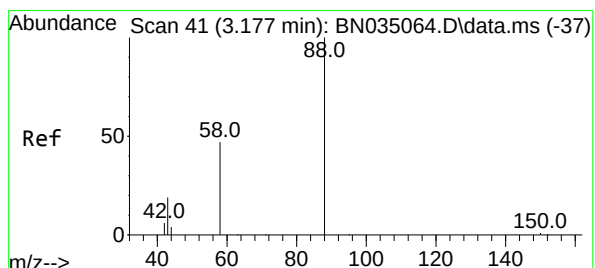
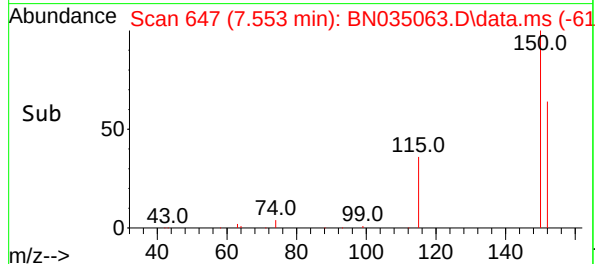
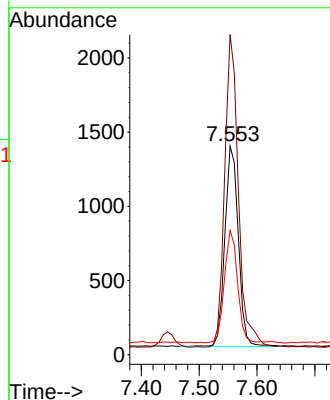
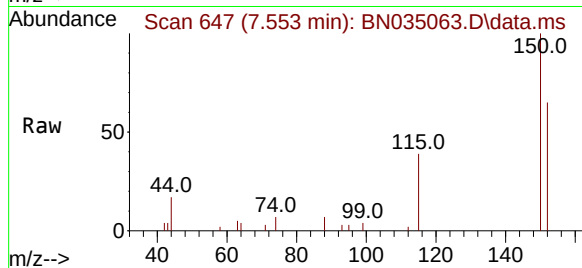




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

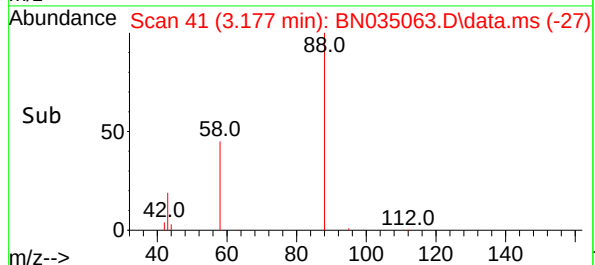
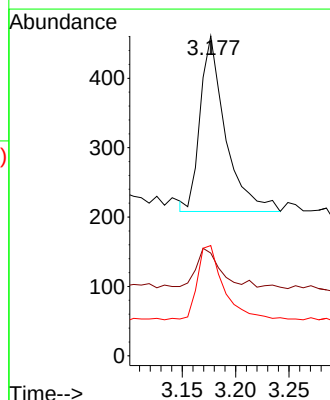
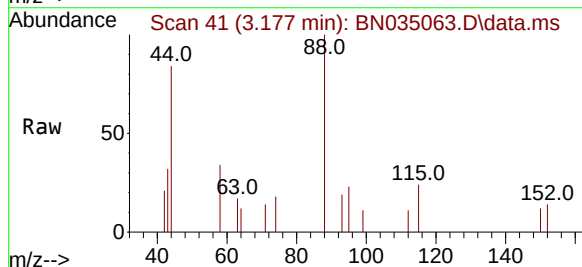
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

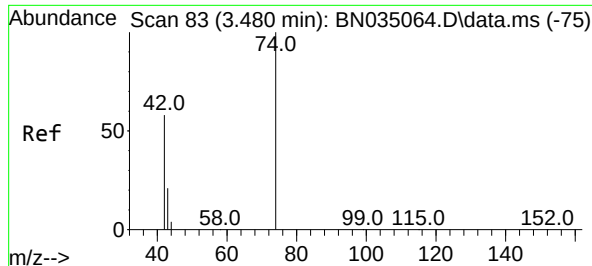
Tgt Ion:152 Resp: 2177
Ion Ratio Lower Upper
152 100
150 153.5 124.5 186.7
115 59.6 47.8 71.6



#2
1,4-Dioxane
Concen: 0.210 ng
RT: 3.177 min Scan# 41
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion: 88 Resp: 416
Ion Ratio Lower Upper
88 100
43 24.3 16.9 25.3
58 44.5 39.0 58.4

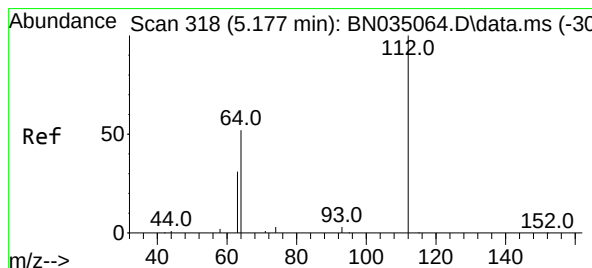
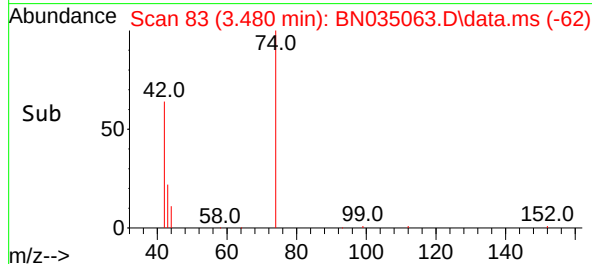
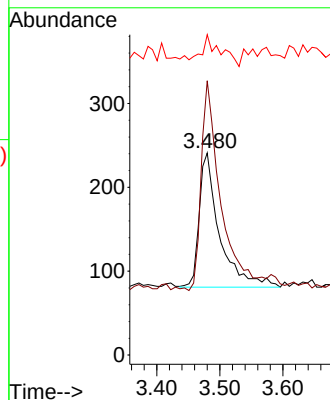
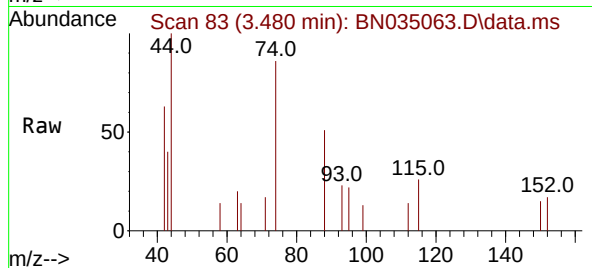




#3
n-Nitrosodimethylamine
Concen: 0.194 ng
RT: 3.480 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

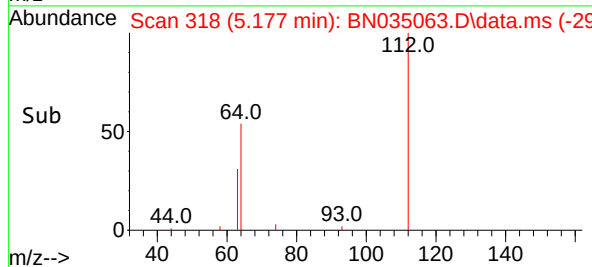
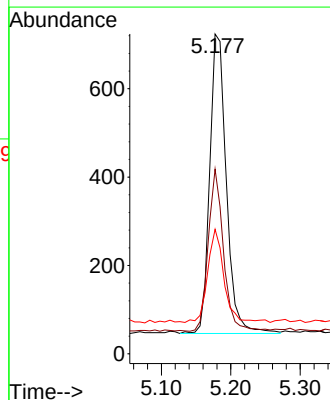
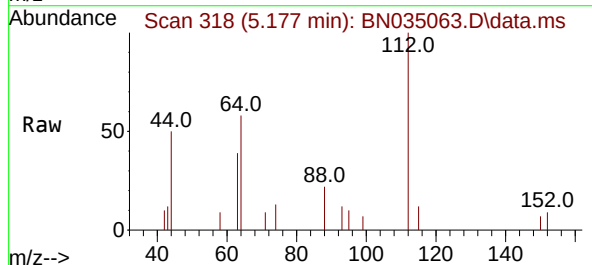
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

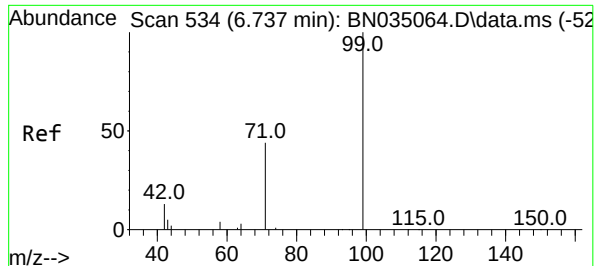
Tgt Ion: 42 Resp: 357
Ion Ratio Lower Upper
42 100
74 149.3 120.8 181.2
44 22.1 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.205 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion: 112 Resp: 1131
Ion Ratio Lower Upper
112 100
64 49.8 39.7 59.5
63 30.4 23.0 34.4

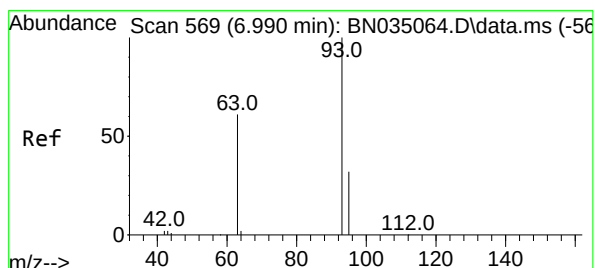
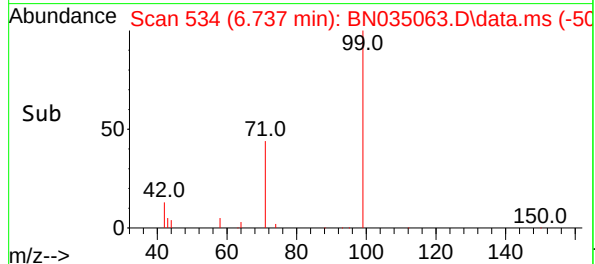
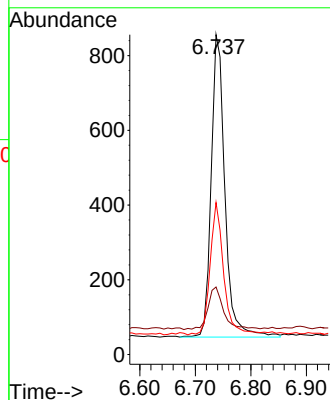
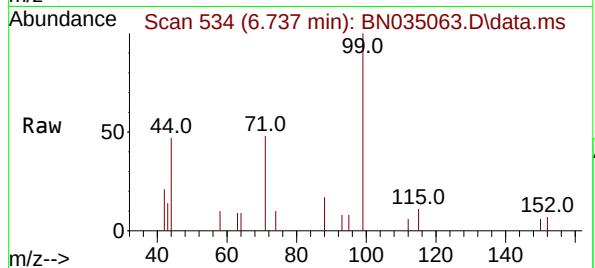




#5
Phenol-d6
Concen: 0.201 ng
RT: 6.737 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

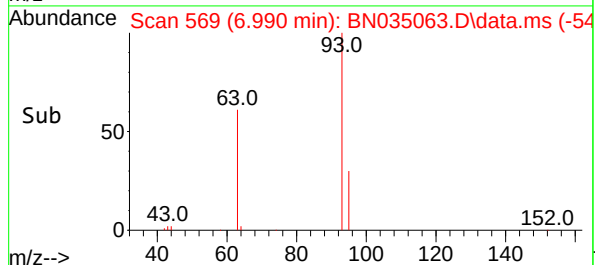
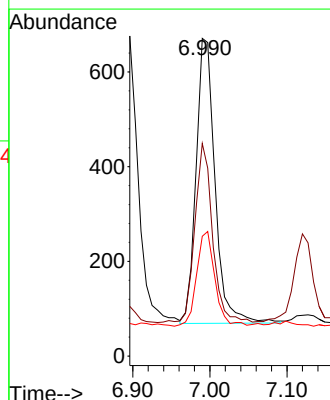
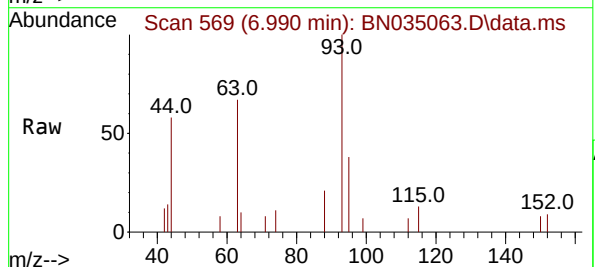
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

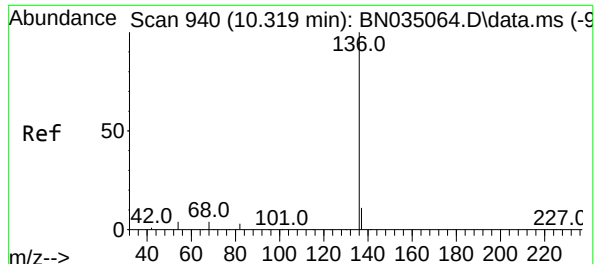
Tgt Ion: 99 Resp: 1392
Ion Ratio Lower Upper
99 100
42 16.1 11.4 17.0
71 43.0 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.199 ng
RT: 6.990 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion: 93 Resp: 1033
Ion Ratio Lower Upper
93 100
63 58.2 47.4 71.2
95 32.1 26.2 39.4

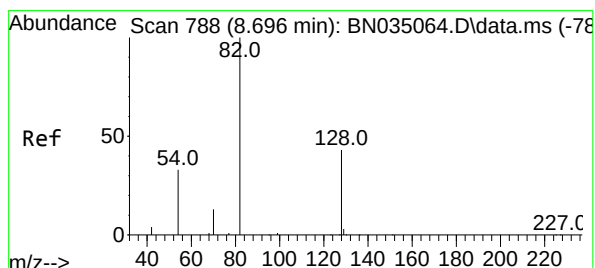
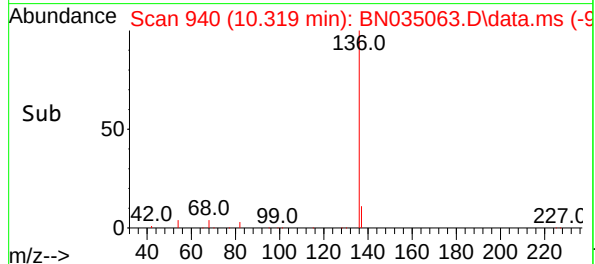
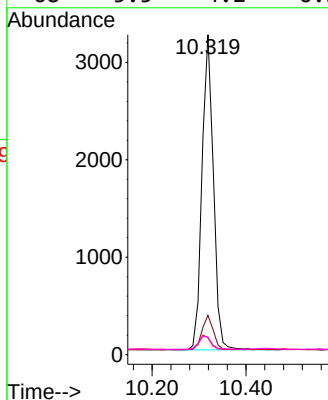
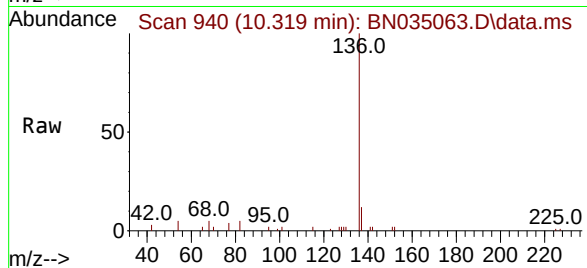




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

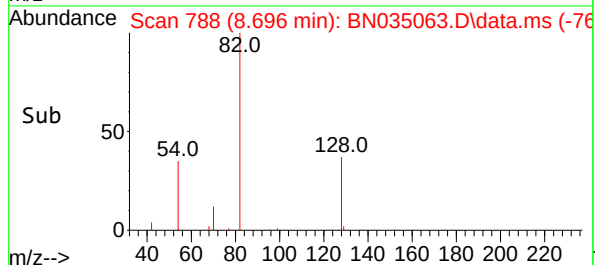
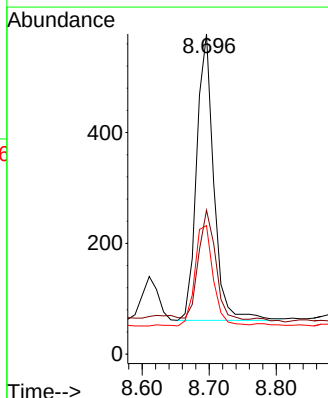
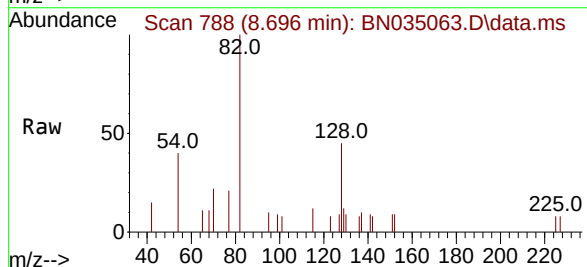
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

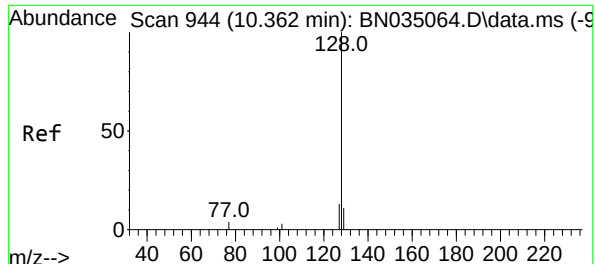
Tgt Ion:136	Resp:	5449
Ion	Ratio	Lower Upper
136	100	
137	12.3	9.8 14.8
54	5.2	4.0 6.0
68	5.5	4.2 6.2



#8
Nitrobenzene-d5
Concen: 0.195 ng
RT: 8.696 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion: 82	Resp:	921
Ion	Ratio	Lower Upper
82	100	
128	45.0	36.5 54.7
54	40.1	28.7 43.1

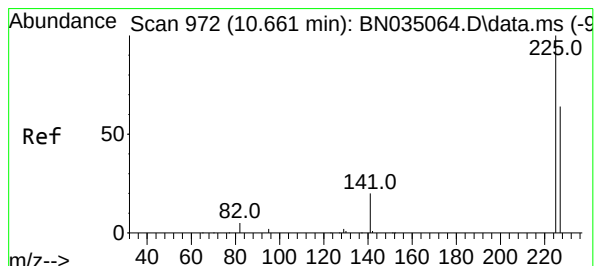
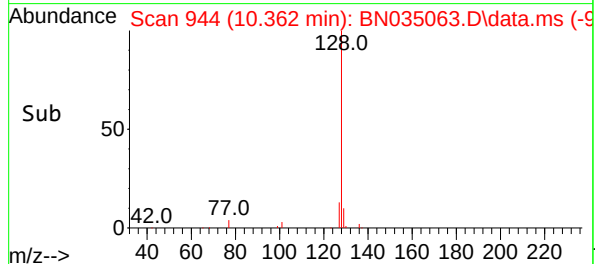
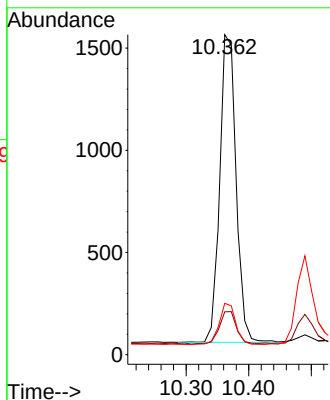
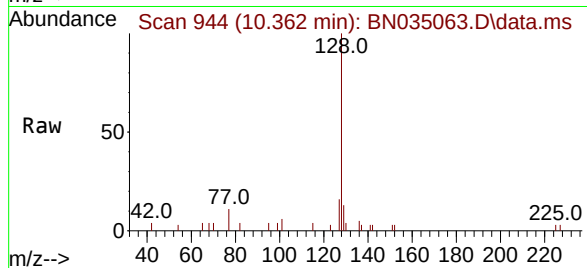




#9
Naphthalene
Concen: 0.193 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

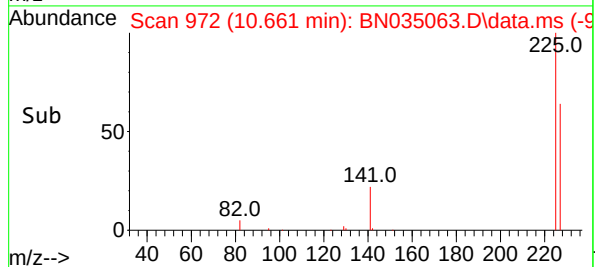
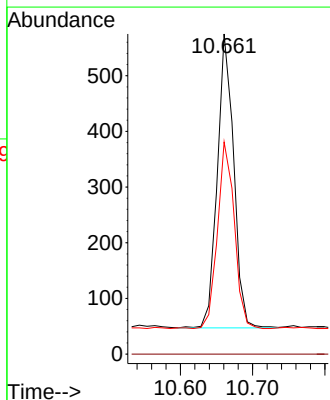
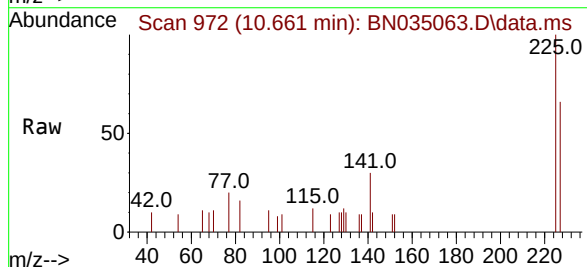
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

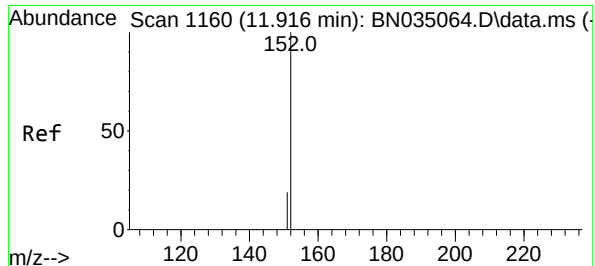
Tgt Ion:128 Resp: 2748
Ion Ratio Lower Upper
128 100
129 13.4 9.6 14.4
127 16.0 11.6 17.4



#10
Hexachlorobutadiene
Concen: 0.200 ng
RT: 10.661 min Scan# 972
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:225 Resp: 832
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.1 51.5 77.3

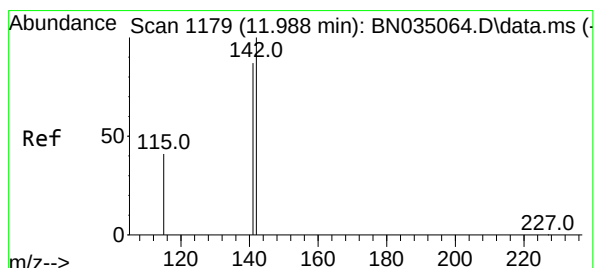
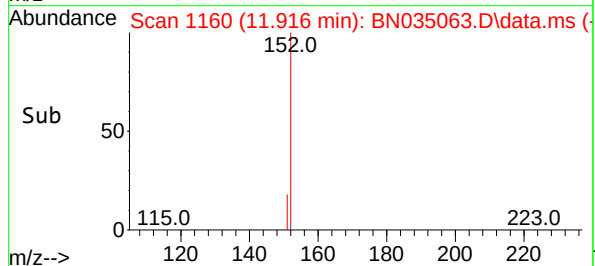
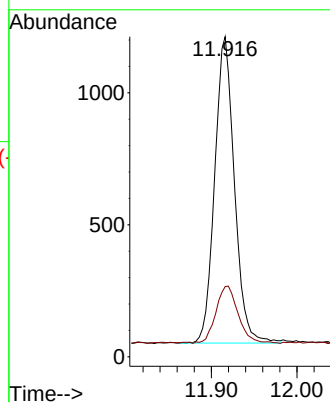
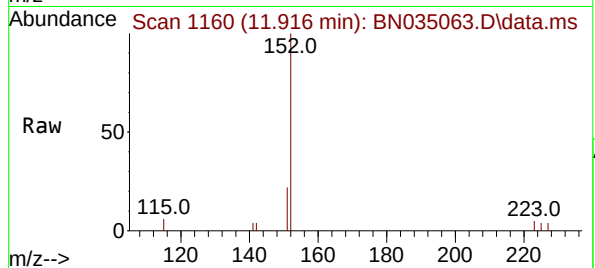




#11
2-Methylnaphthalene-d10
Concen: 0.192 ng
RT: 11.916 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

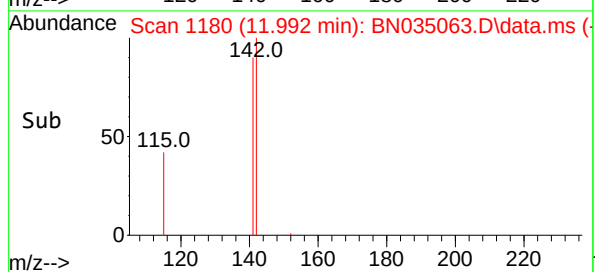
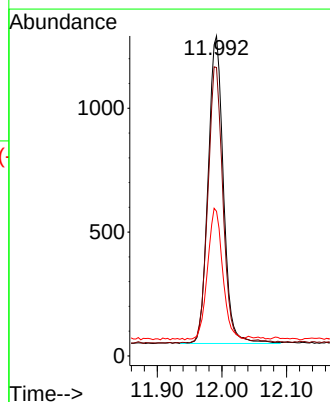
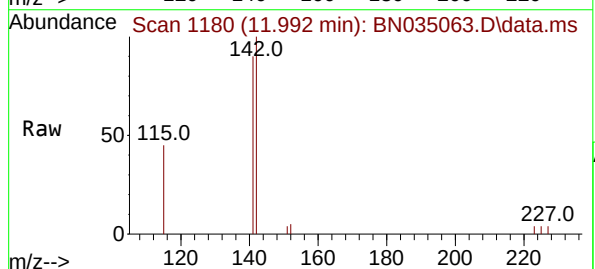
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

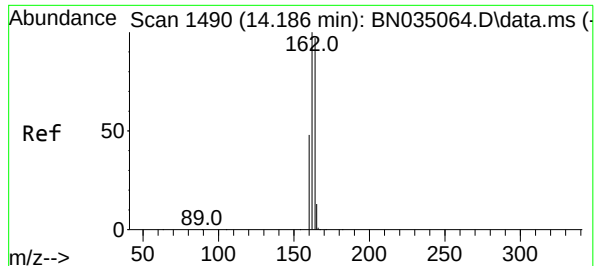
Tgt Ion:152 Resp: 1861
Ion Ratio Lower Upper
152 100
151 21.1 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.194 ng
RT: 11.992 min Scan# 1180
Delta R.T. 0.004 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:142 Resp: 2039
Ion Ratio Lower Upper
142 100
141 90.2 70.1 105.1
115 45.2 34.4 51.6

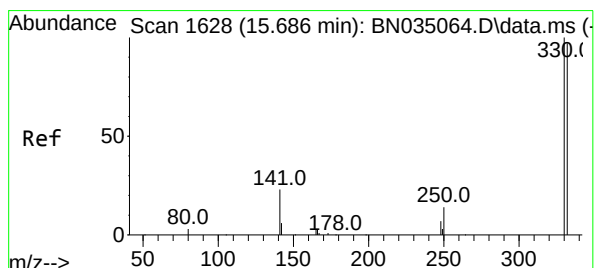
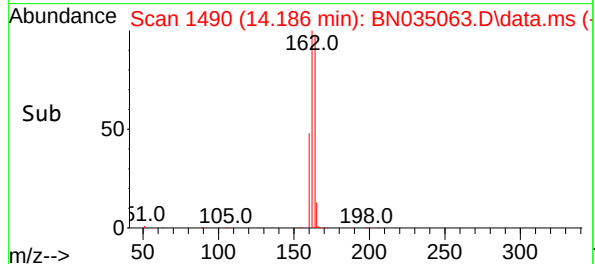
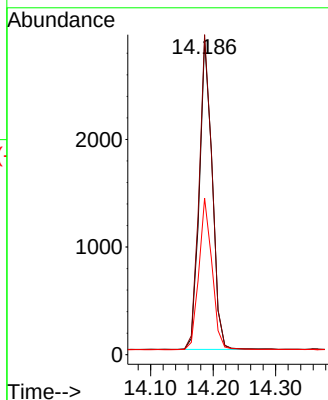
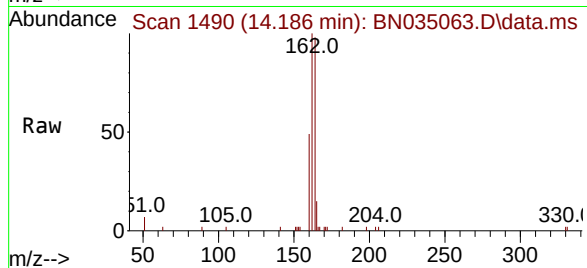




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

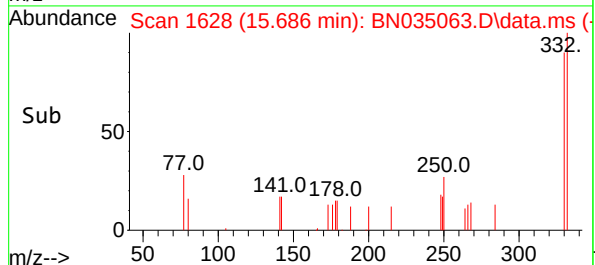
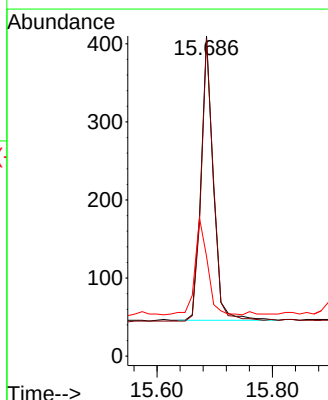
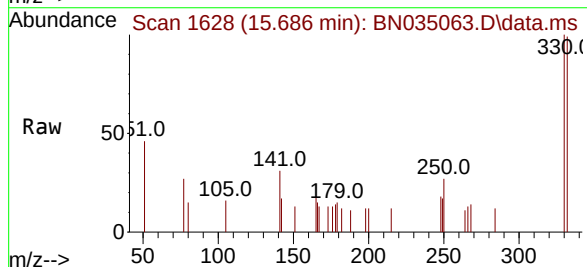
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

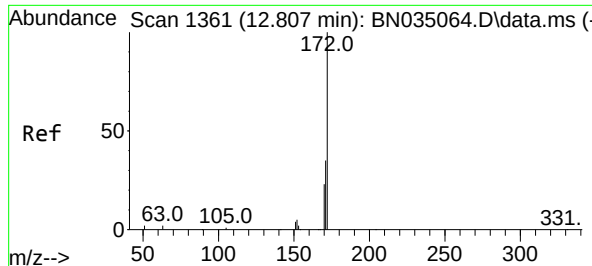
Tgt Ion:164 Resp: 4114
Ion Ratio Lower Upper
164 100
162 101.7 82.2 123.2
160 49.8 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.181 ng
RT: 15.686 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:330 Resp: 538
Ion Ratio Lower Upper
330 100
332 99.1 76.9 115.3
141 34.8 29.6 44.4





#15

2-Fluorobiphenyl

Concen: 0.194 ng

RT: 12.807 min Scan# 1361

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

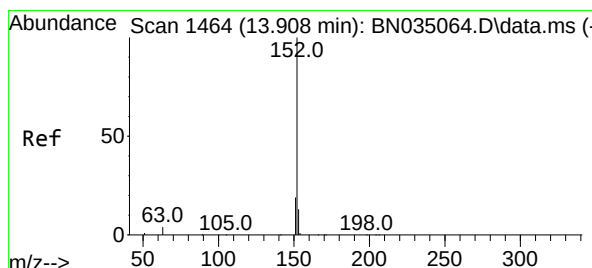
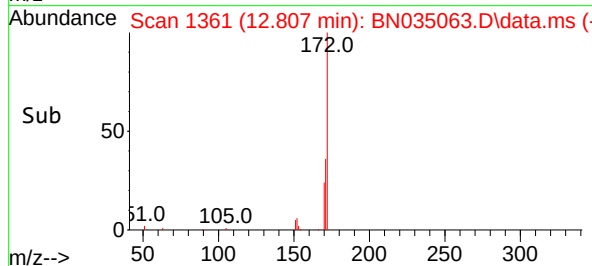
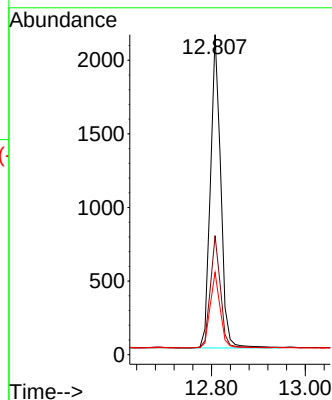
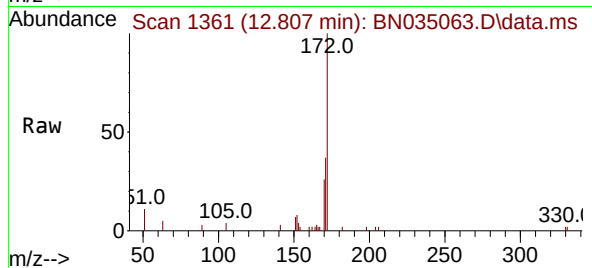
Tgt Ion:172 Resp: 3241

Ion Ratio Lower Upper

172 100

171 37.2 28.2 42.4

170 25.7 19.0 28.6



#16

Acenaphthylene

Concen: 0.189 ng

RT: 13.908 min Scan# 1464

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

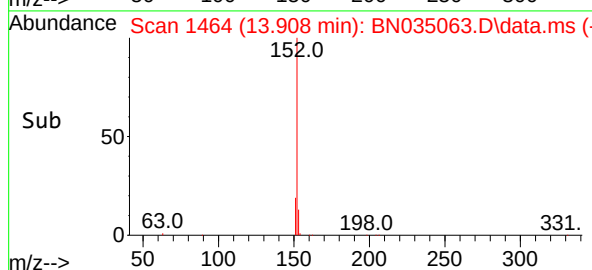
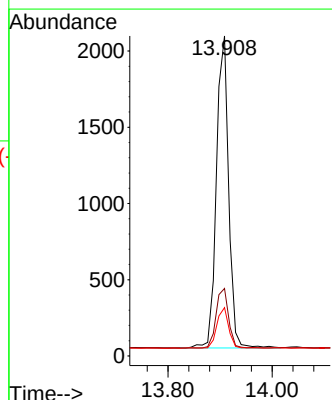
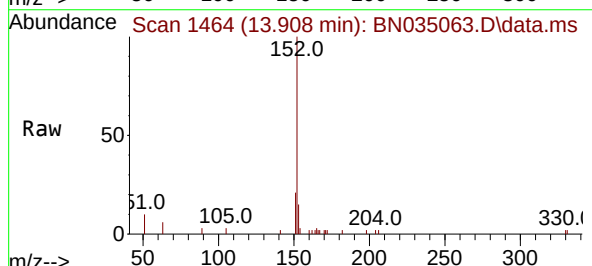
Tgt Ion:152 Resp: 3325

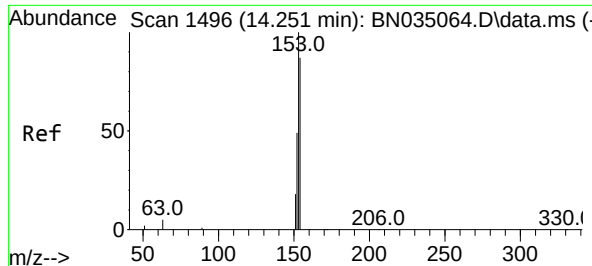
Ion Ratio Lower Upper

152 100

151 19.6 15.8 23.8

153 13.0 10.2 15.4





#17

Acenaphthene

Concen: 0.193 ng

RT: 14.251 min Scan# 1496

Delta R.T. 0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

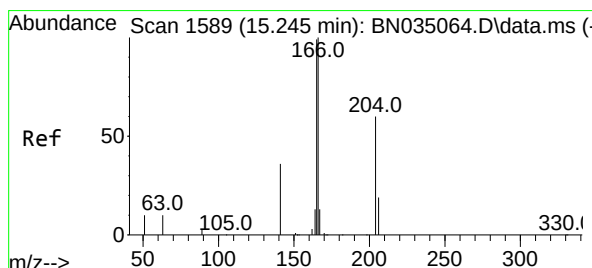
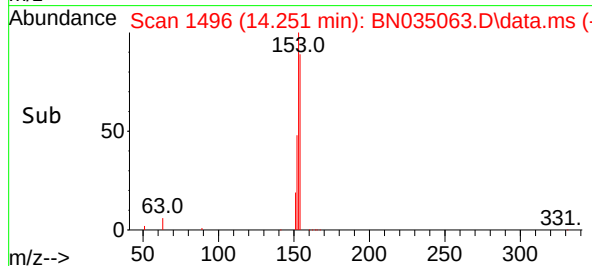
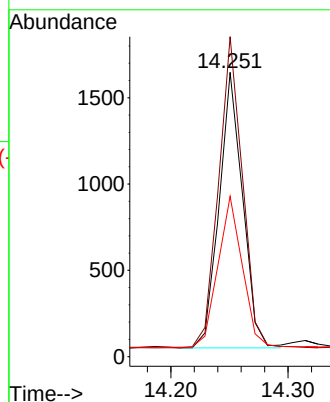
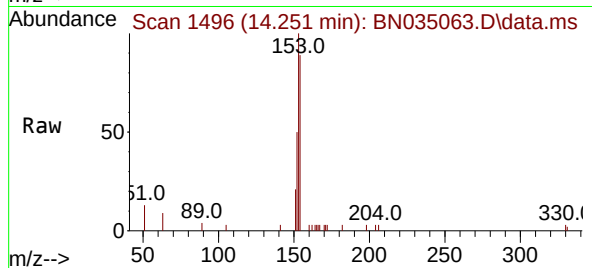
Tgt Ion:154 Resp: 2219

Ion Ratio Lower Upper

154 100

153 114.9 91.6 137.4

152 57.9 45.8 68.6



#18

Fluorene

Concen: 0.193 ng

RT: 15.245 min Scan# 1589

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

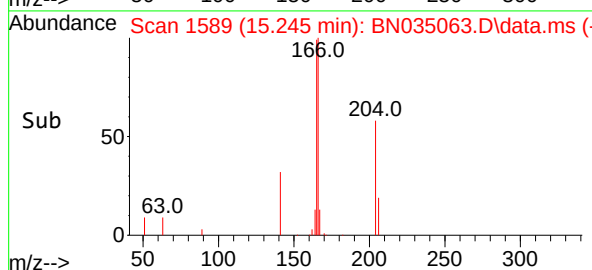
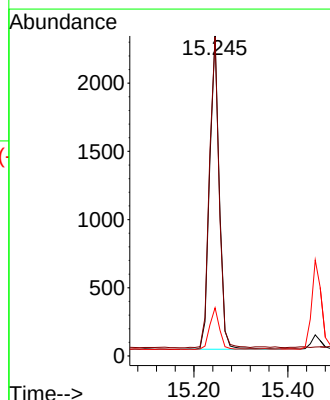
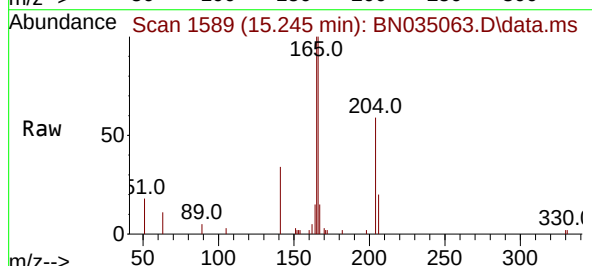
Tgt Ion:166 Resp: 3273

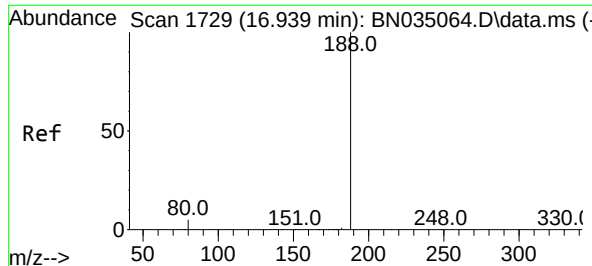
Ion Ratio Lower Upper

166 100

165 99.5 79.1 118.7

167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.939 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

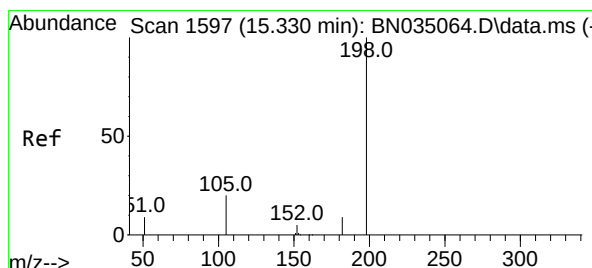
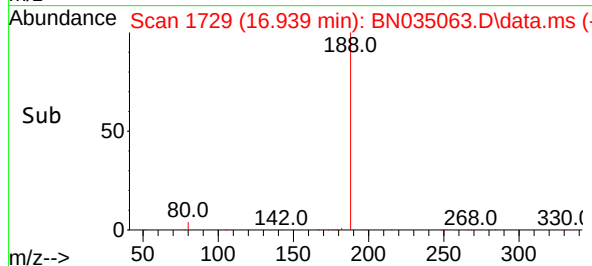
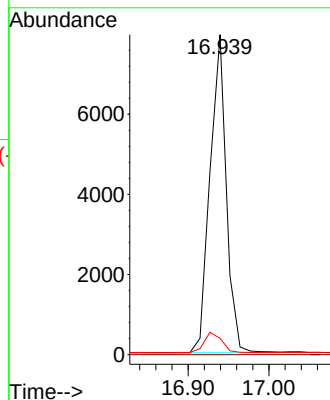
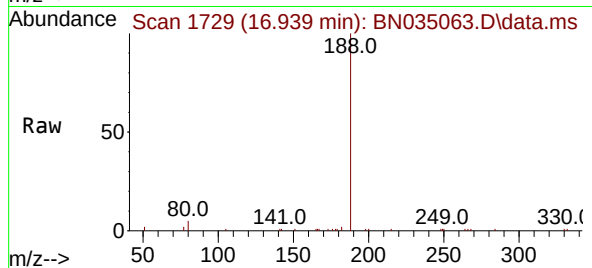
Tgt Ion:188 Resp: 11179

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.1 4.3 6.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.162 ng

RT: 15.330 min Scan# 1597

Delta R.T. 0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

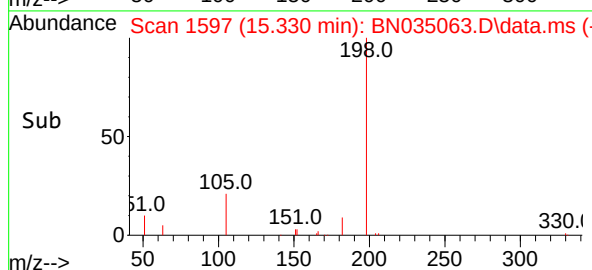
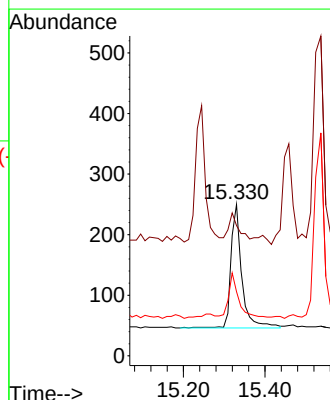
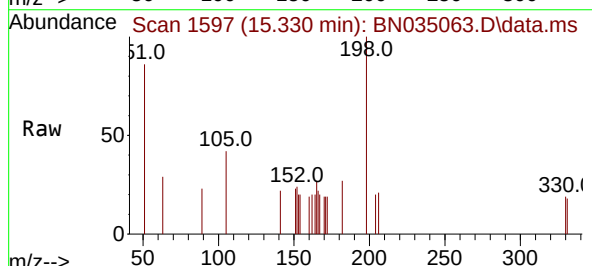
Tgt Ion:198 Resp: 376

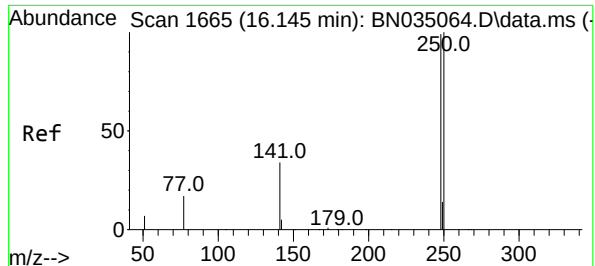
Ion Ratio Lower Upper

198 100

51 86.0 29.9 44.9#

105 42.4 23.7 35.5#

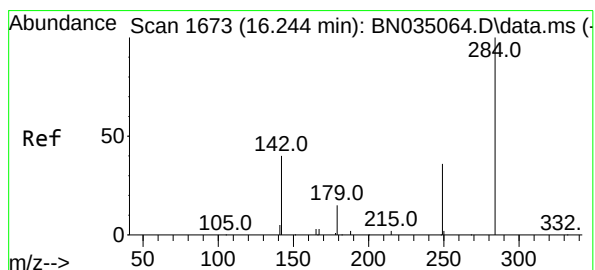
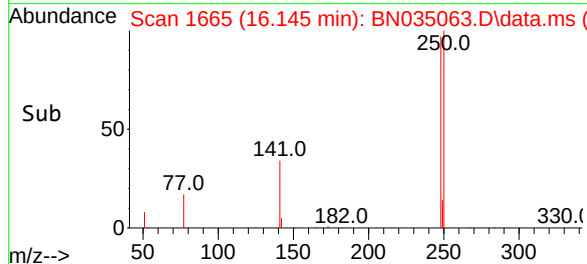
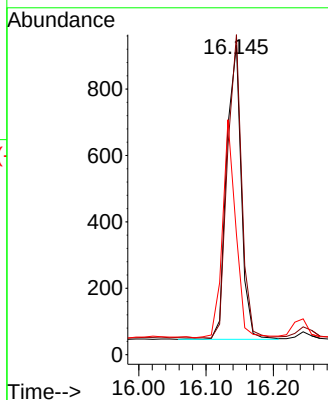
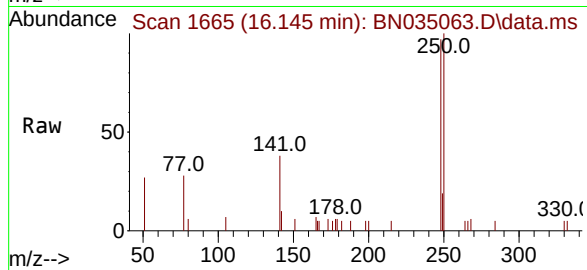




#21
4-Bromophenyl-phenylether
Concen: 0.188 ng
RT: 16.145 min Scan# 1665
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

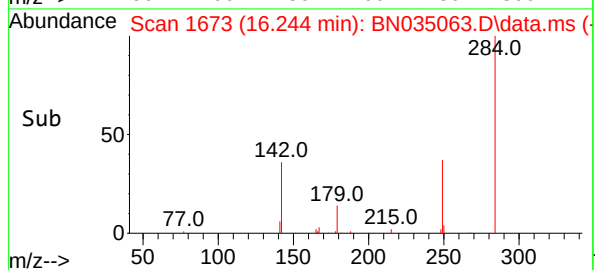
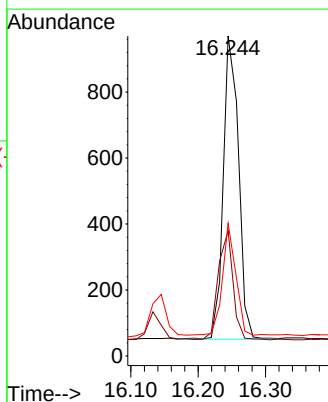
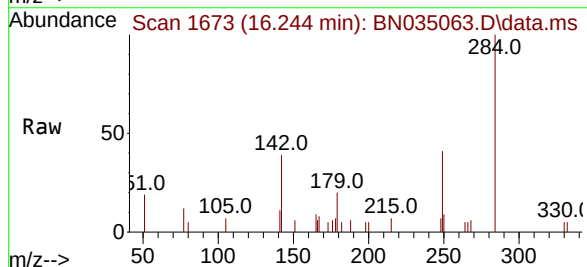
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

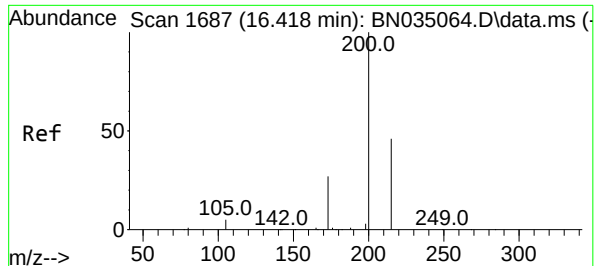
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.4	81.2	121.8
141	38.9	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.195 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.7	28.2	42.4
249	32.9	26.2	39.2

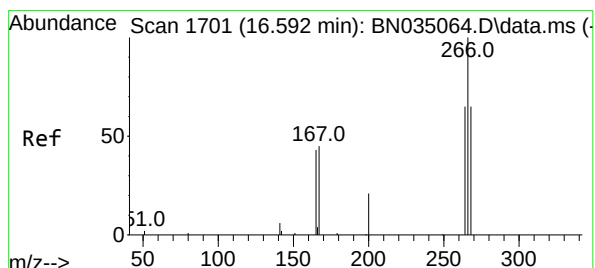
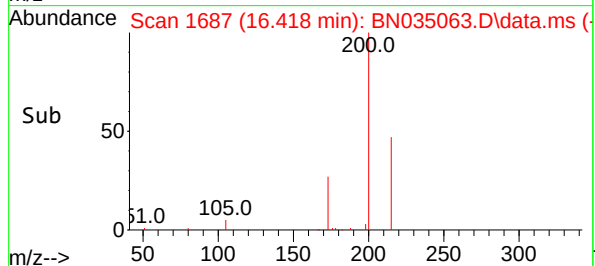
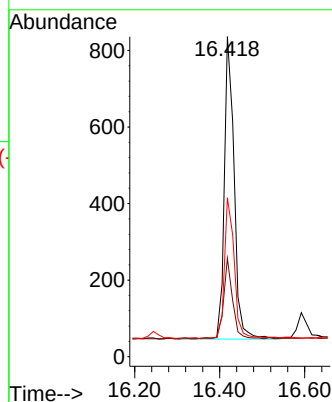
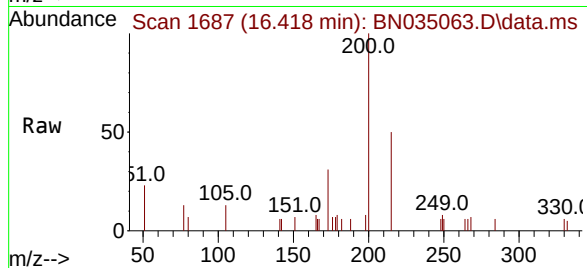




#23
Atrazine
Concen: 0.199 ng
RT: 16.418 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

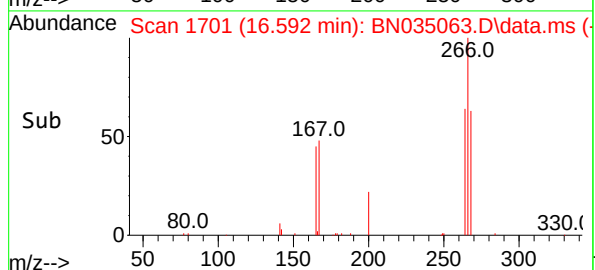
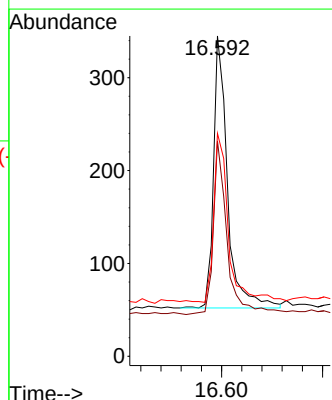
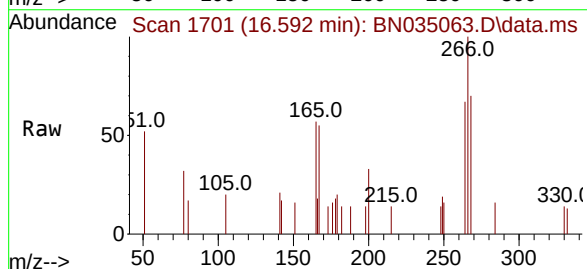
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

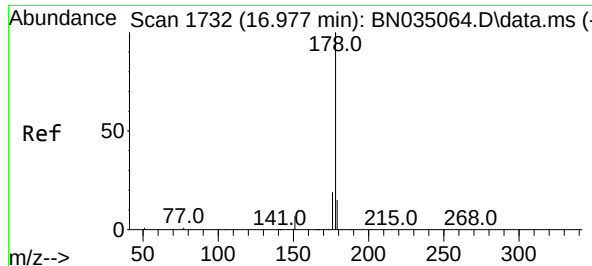
Tgt Ion:200 Resp: 1271
Ion Ratio Lower Upper
200 100
173 30.7 22.6 33.8
215 49.6 37.8 56.6



#24
Pentachlorophenol
Concen: 0.163 ng
RT: 16.592 min Scan# 1701
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:266 Resp: 562
Ion Ratio Lower Upper
266 100
264 63.3 49.4 74.0
268 65.1 52.6 79.0

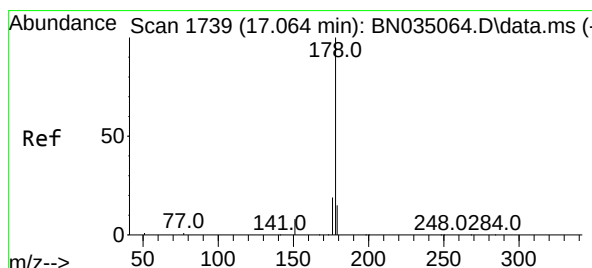
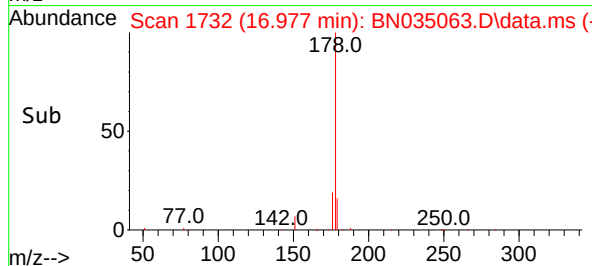
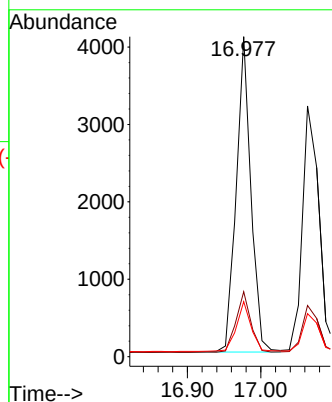
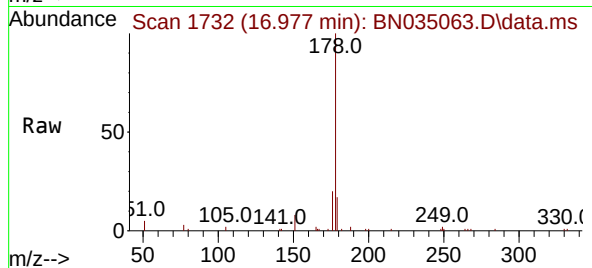




#25
Phenanthrene
Concen: 0.193 ng
RT: 16.977 min Scan# 1732
Delta R.T. 0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

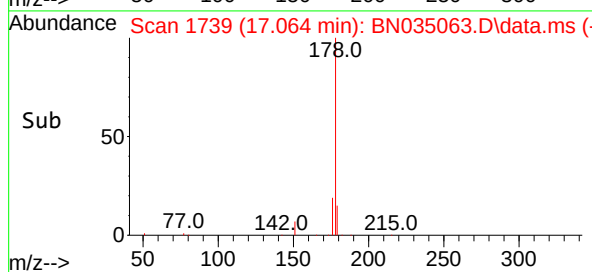
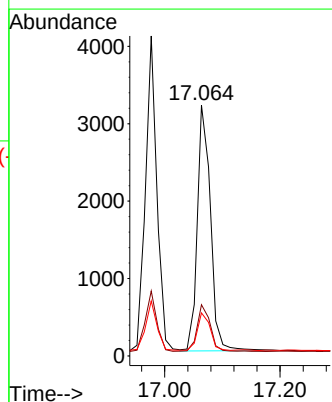
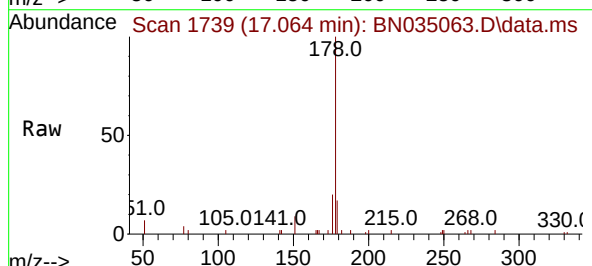
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

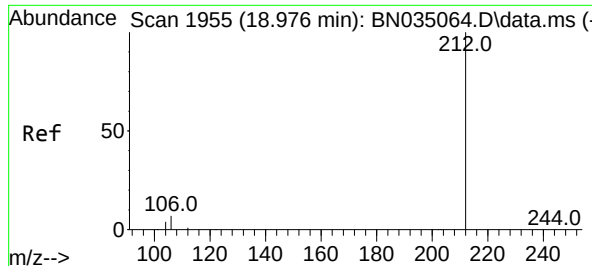
Tgt Ion:178 Resp: 5664
Ion Ratio Lower Upper
178 100
176 19.4 15.2 22.8
179 16.3 12.6 18.8



#26
Anthracene
Concen: 0.187 ng
RT: 17.064 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:178 Resp: 5051
Ion Ratio Lower Upper
178 100
176 19.2 14.6 22.0
179 14.6 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.192 ng

RT: 18.976 min Scan# 1955

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

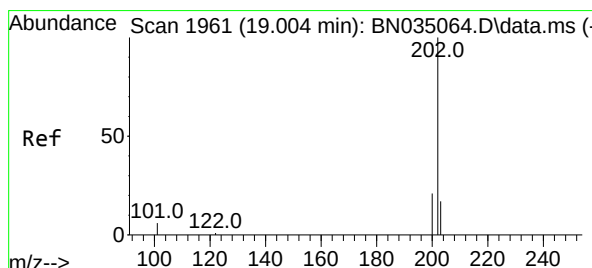
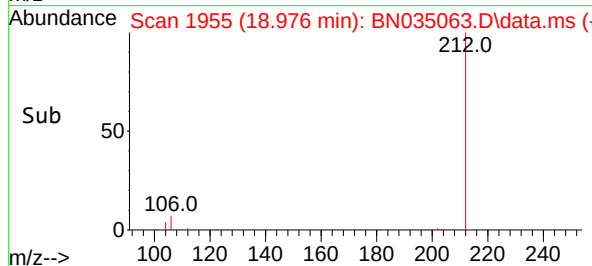
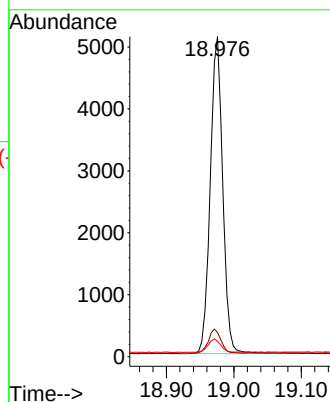
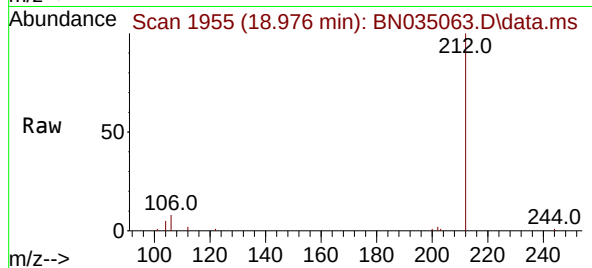
Tgt Ion:212 Resp: 6587

Ion Ratio Lower Upper

212 100

106 7.6 6.0 9.0

104 4.4 3.5 5.3



#28

Fluoranthene

Concen: 0.190 ng

RT: 19.004 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

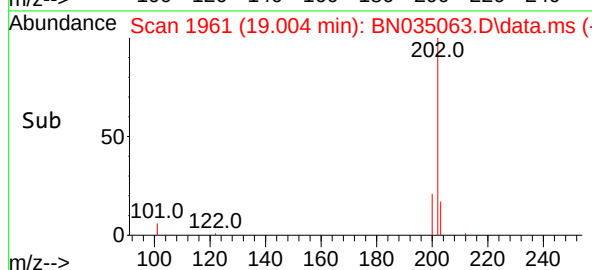
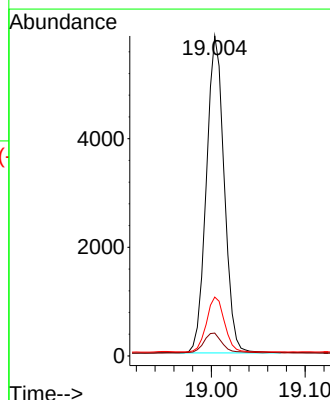
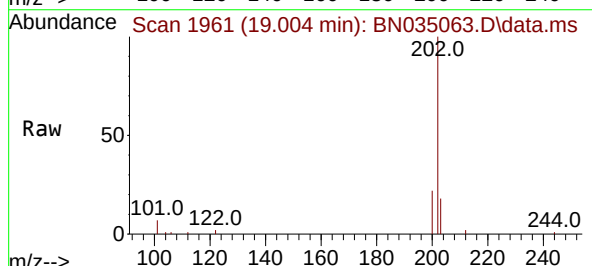
Tgt Ion:202 Resp: 7690

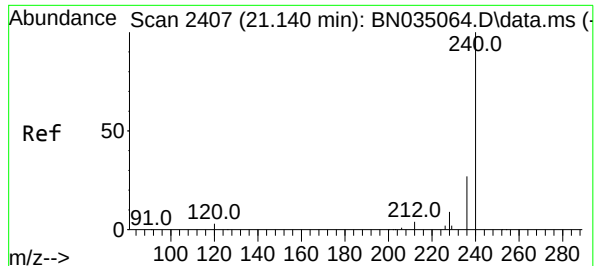
Ion Ratio Lower Upper

202 100

101 7.0 5.2 7.8

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.131 min Scan# 2406

Delta R.T. -0.009 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

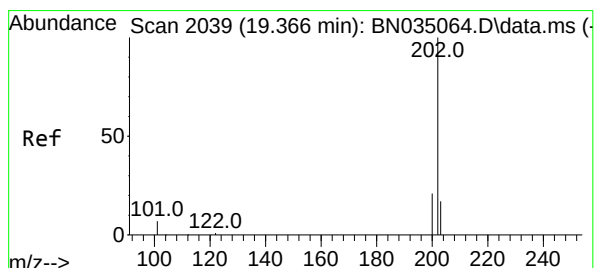
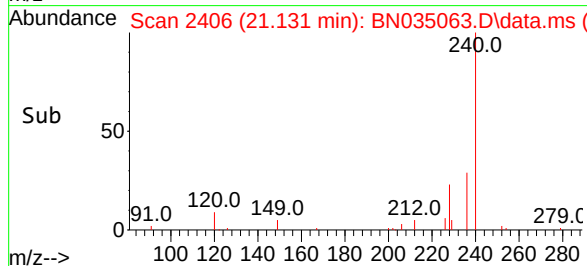
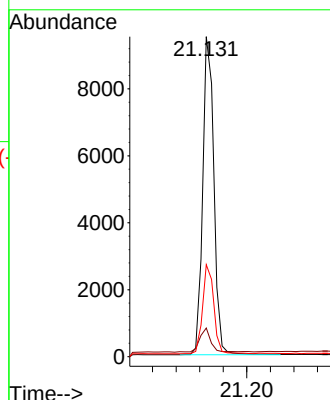
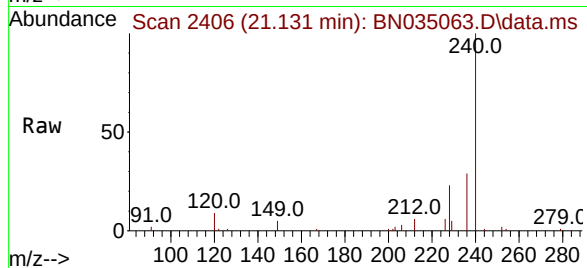
Tgt Ion:240 Resp: 12508

Ion Ratio Lower Upper

240 100

120 9.0 3.8 5.6#

236 28.8 22.2 33.2



#30

Pyrene

Concen: 0.194 ng

RT: 19.366 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

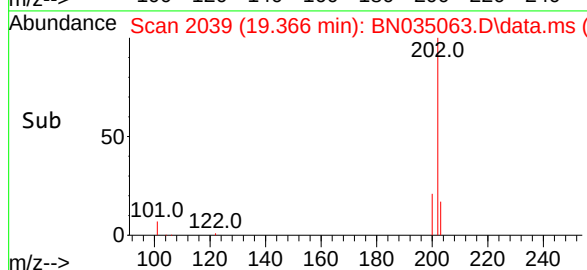
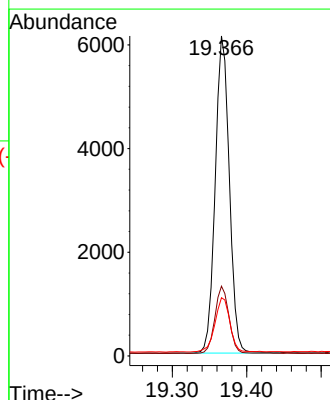
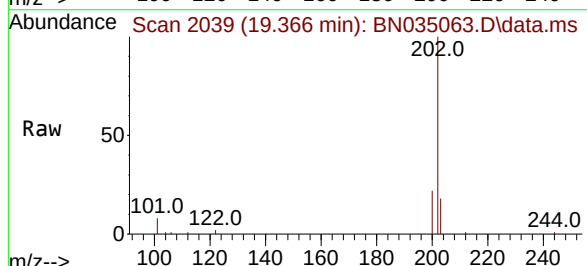
Tgt Ion:202 Resp: 8067

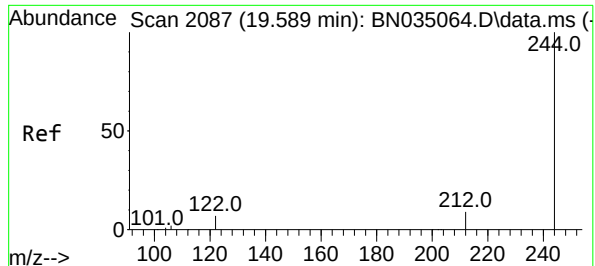
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 18.1 14.2 21.4

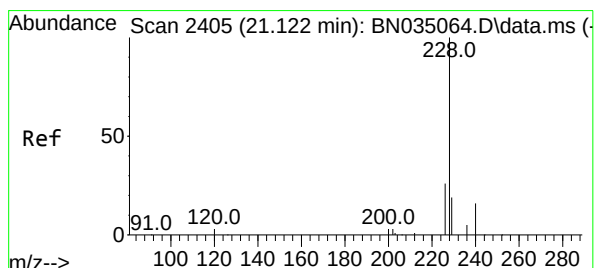
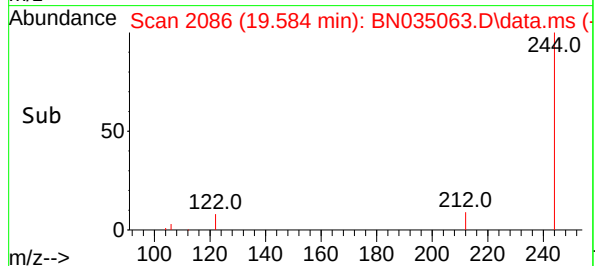
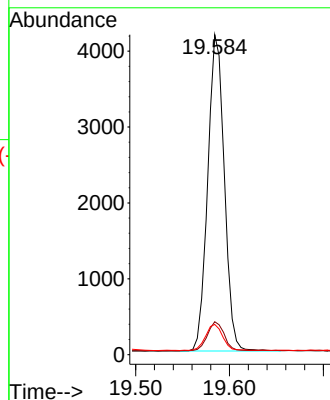
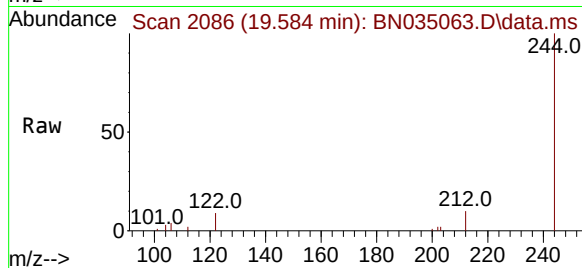




#31
Terphenyl-d14
Concen: 0.195 ng
RT: 19.584 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

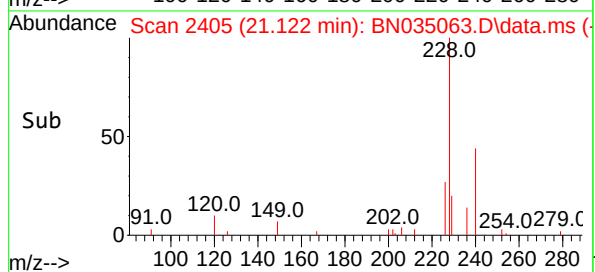
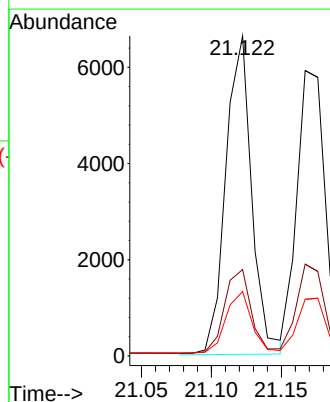
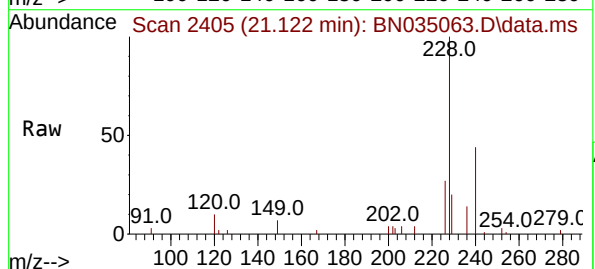
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

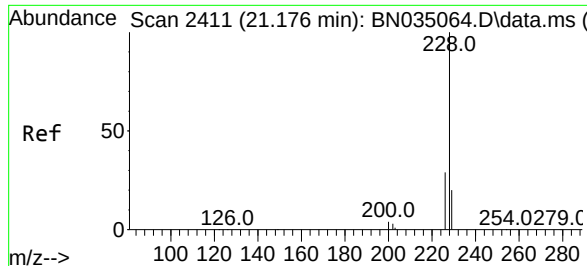
Tgt Ion:244 Resp: 5123
Ion Ratio Lower Upper
244 100
212 10.3 7.6 11.4
122 9.5 6.1 9.1#



#32
Benzo(a)anthracene
Concen: 0.196 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035063.D
Acq: 13 Nov 2024 13:16

Tgt Ion:228 Resp: 8558
Ion Ratio Lower Upper
228 100
226 27.0 21.4 32.0
229 20.1 15.7 23.5





#33

Chrysene

Concen: 0.198 ng

RT: 21.167 min Scan# 2411

Delta R.T. -0.009 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

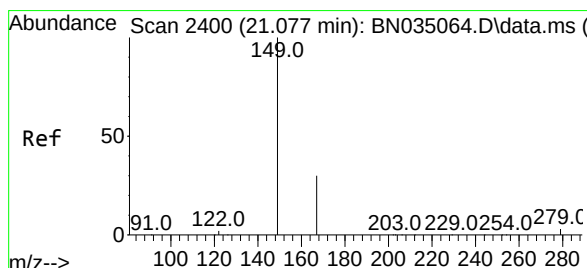
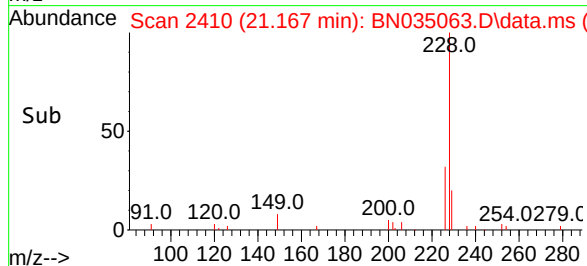
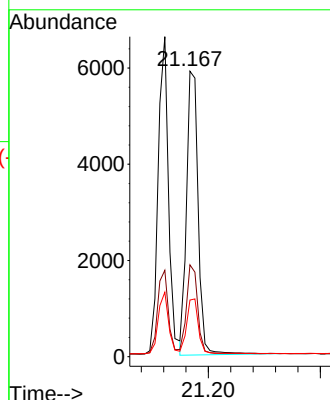
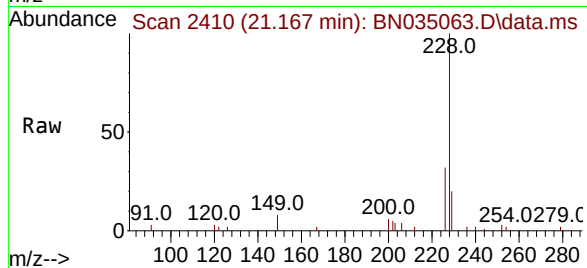
Tgt Ion:228 Resp: 8540

Ion Ratio Lower Upper

228 100

226 32.2 23.7 35.5

229 19.9 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.208 ng

RT: 21.077 min Scan# 2400

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

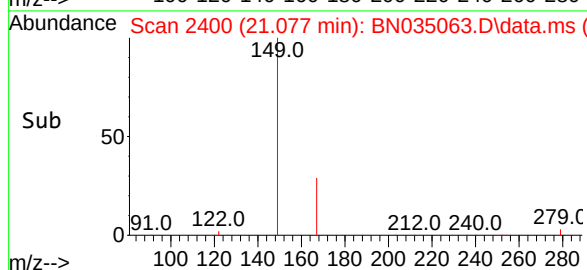
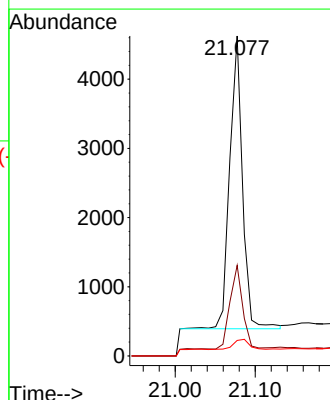
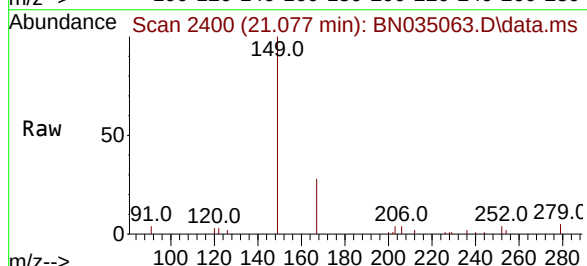
Tgt Ion:149 Resp: 4712

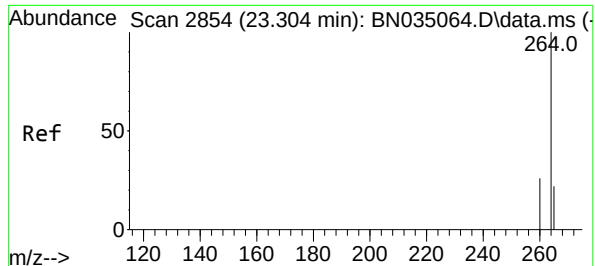
Ion Ratio Lower Upper

149 100

167 28.3 23.2 34.8

279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.301 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035063.D

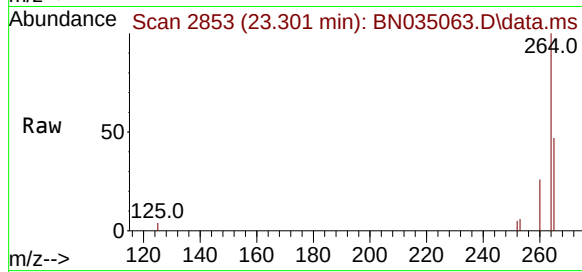
Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



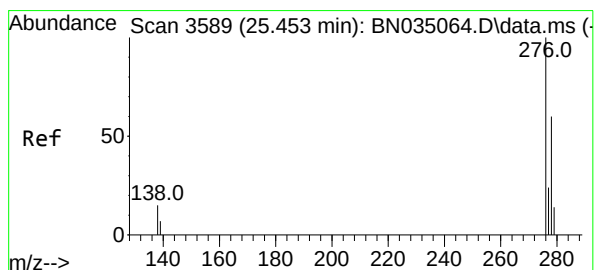
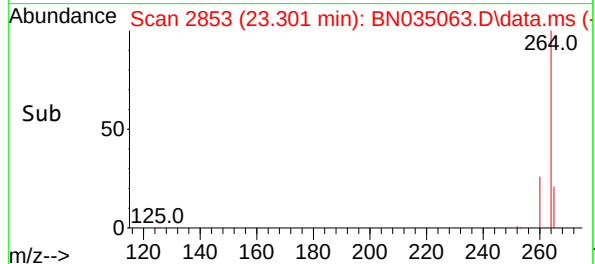
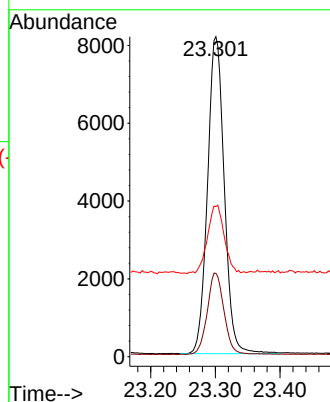
Tgt Ion:264 Resp: 14643

Ion Ratio Lower Upper

264 100

260 26.1 20.9 31.3

265 46.9 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.190 ng

RT: 25.450 min Scan# 3588

Delta R.T. -0.003 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

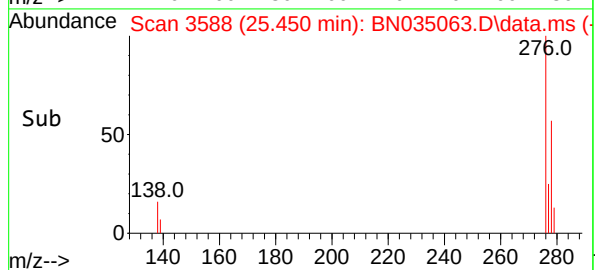
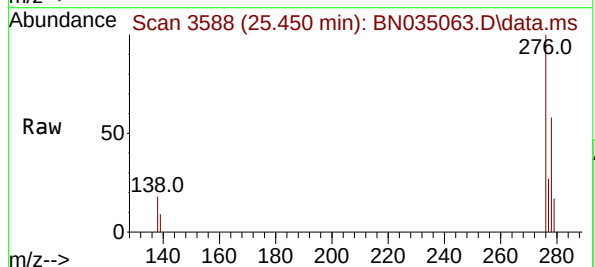
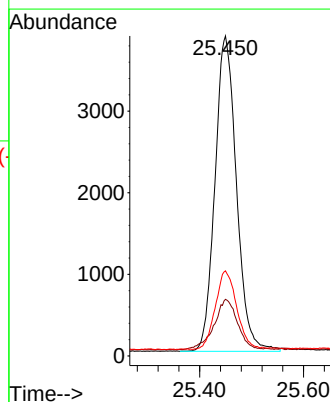
Tgt Ion:276 Resp: 11095

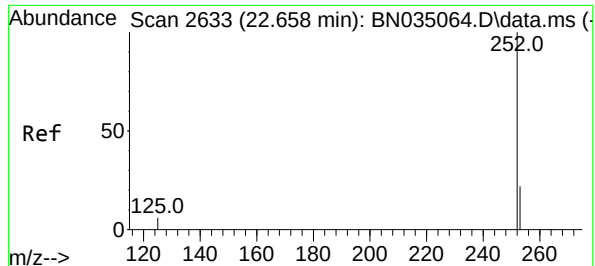
Ion Ratio Lower Upper

276 100

138 17.3 13.0 19.4

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.189 ng

RT: 22.657 min Scan# 2633

Delta R.T. -0.000 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

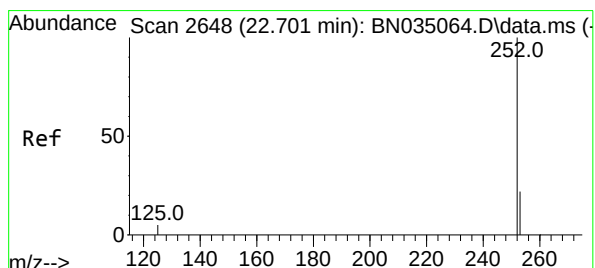
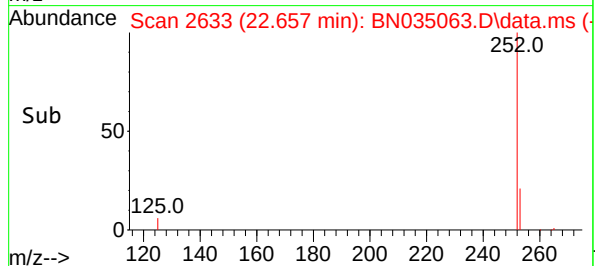
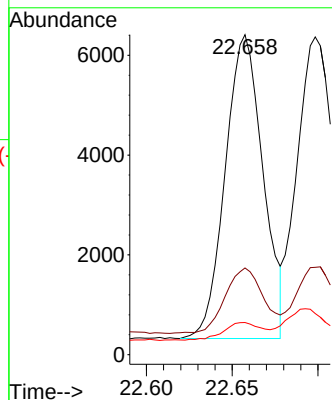
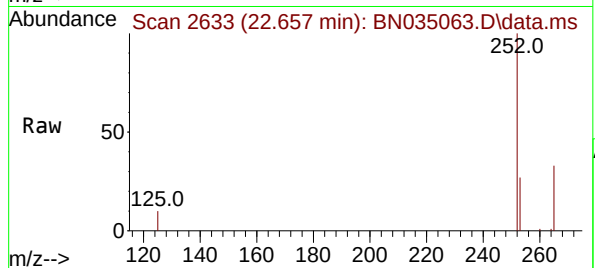
Tgt Ion:252 Resp: 9315

Ion Ratio Lower Upper

252 100

253 27.1 19.3 28.9

125 10.0 6.2 9.2#



#38

Benzo(k)fluoranthene

Concen: 0.191 ng

RT: 22.698 min Scan# 2647

Delta R.T. -0.003 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

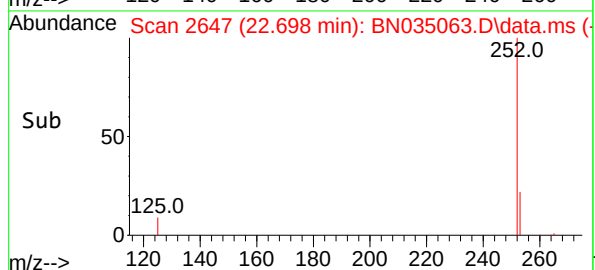
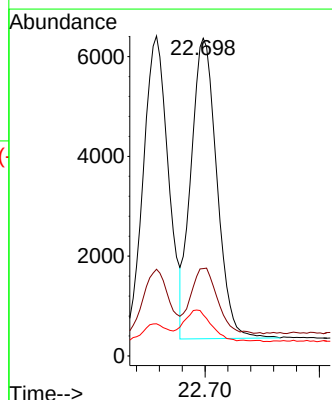
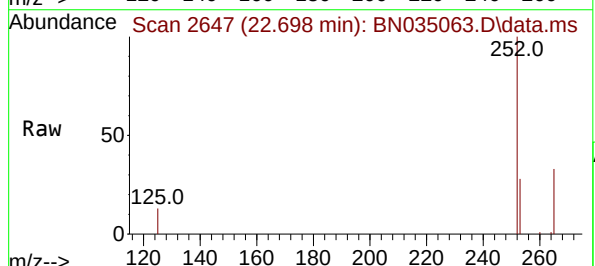
Tgt Ion:252 Resp: 9432

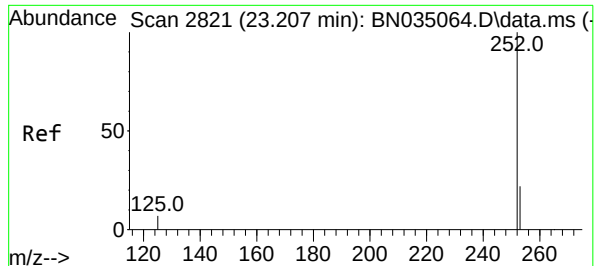
Ion Ratio Lower Upper

252 100

253 27.5 19.5 29.3

125 13.0 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.192 ng

RT: 23.204 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

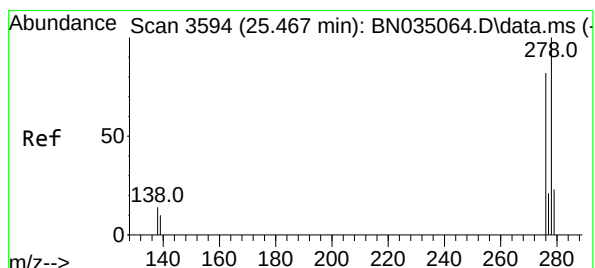
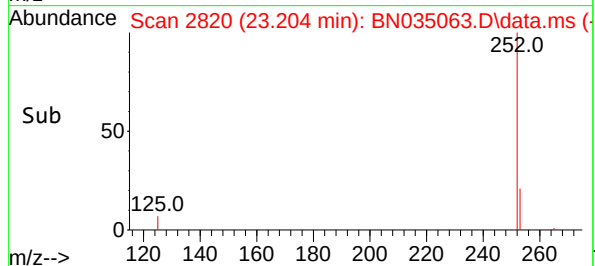
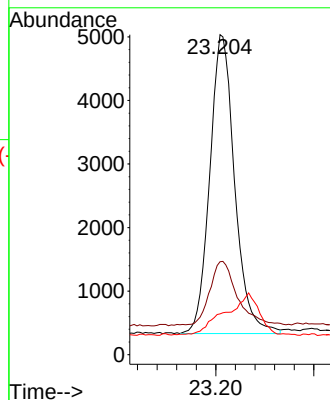
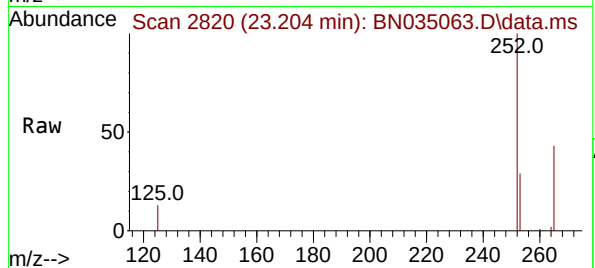
Tgt Ion:252 Resp: 8302

Ion Ratio Lower Upper

252 100

253 29.1 20.1 30.1

125 12.8 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.189 ng

RT: 25.464 min Scan# 3593

Delta R.T. -0.003 min

Lab File: BN035063.D

Acq: 13 Nov 2024 13:16

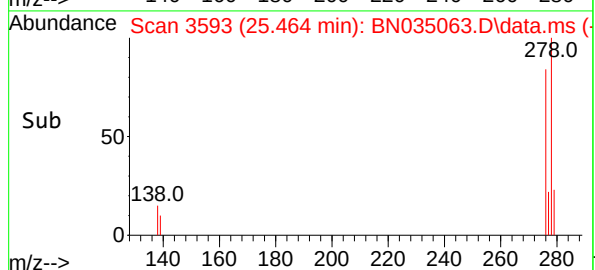
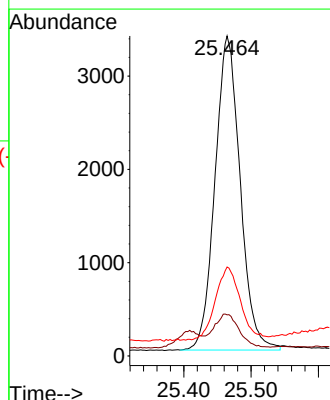
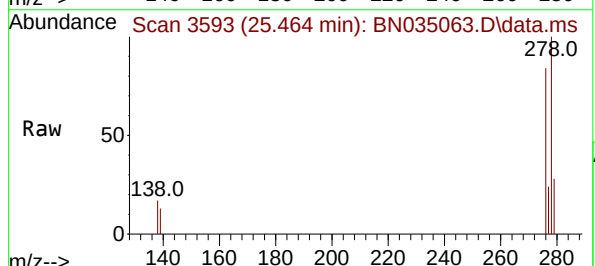
Tgt Ion:278 Resp: 8750

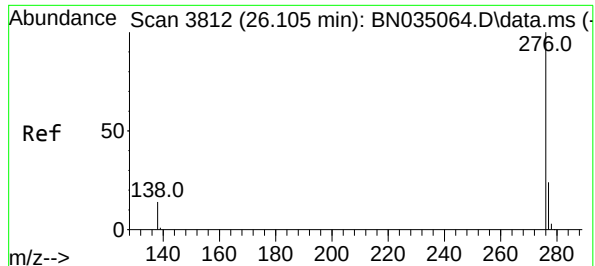
Ion Ratio Lower Upper

278 100

139 12.9 9.3 13.9

279 27.8 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.192 ng

RT: 26.099 min Scan# 3810

Delta R.T. -0.006 min

Lab File: BN035063.D

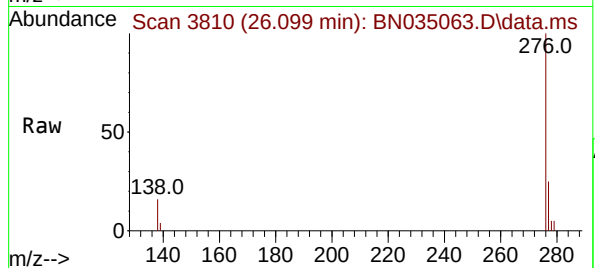
Acq: 13 Nov 2024 13:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



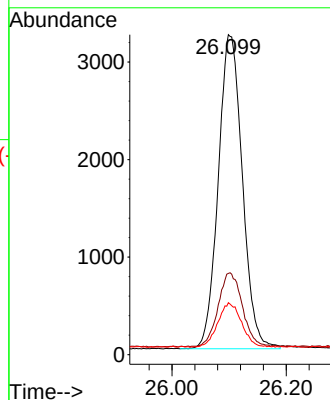
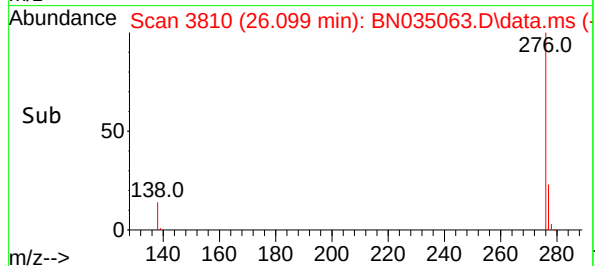
Tgt Ion:276 Resp: 9431

Ion Ratio Lower Upper

276 100

277 25.4 19.9 29.9

138 16.3 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035064.D
 Acq On : 13 Nov 2024 13:52
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Nov 13 16:43:40 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

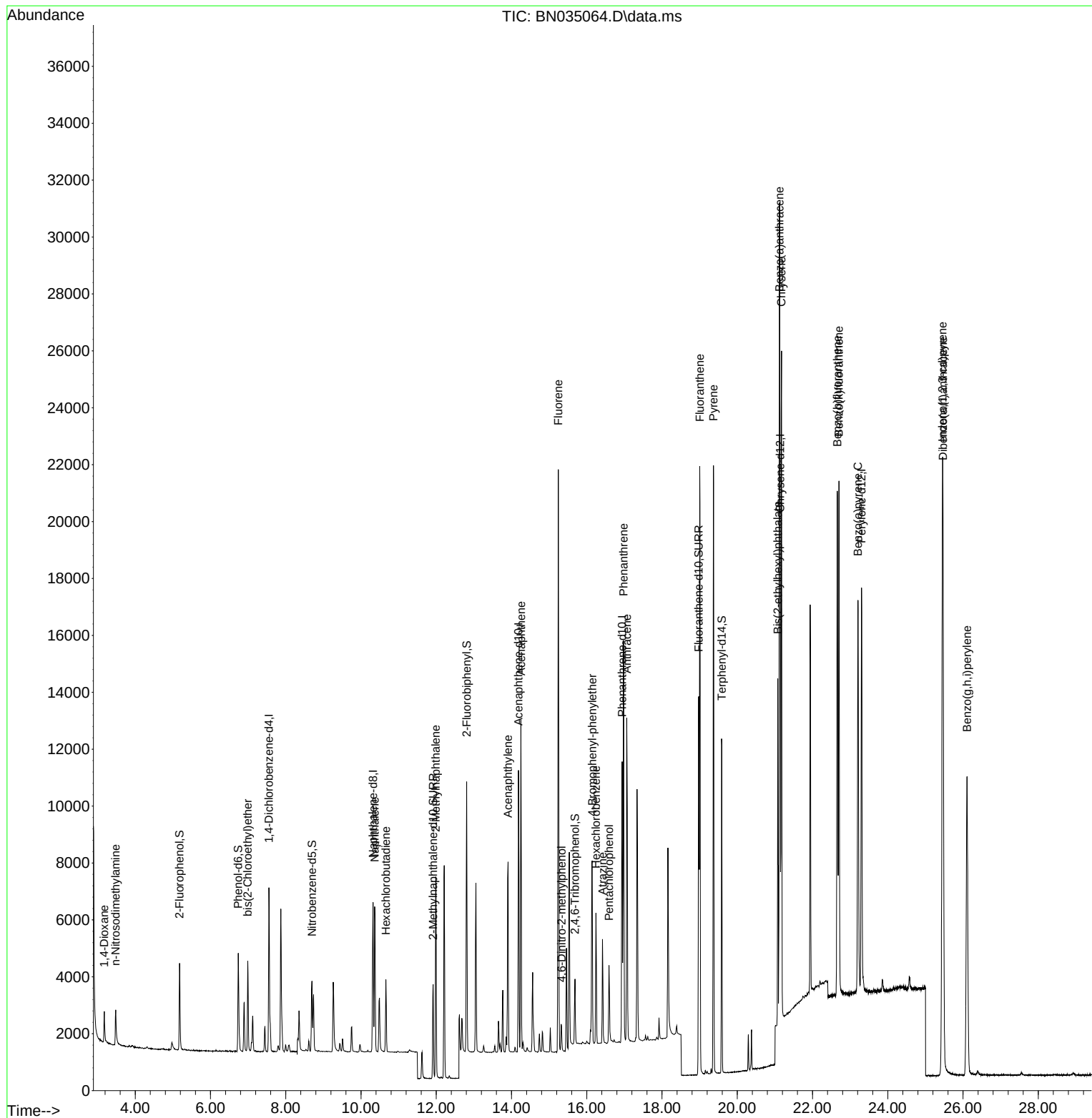
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2804	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6865	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	5401	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	13499	0.400	ng	0.00
29) Chrysene-d12	21.140	240	14946	0.400	ng	0.00
35) Perylene-d12	23.304	264	17077	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2661	0.374	ng	0.00
5) Phenol-d6	6.737	99	3250	0.364	ng	0.00
8) Nitrobenzene-d5	8.696	82	2197	0.369	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	4559	0.373	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	1295	0.333	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	7888	0.360	ng	0.00
27) Fluoranthene-d10	18.976	212	15786	0.382	ng	0.00
31) Terphenyl-d14	19.589	244	12101	0.386	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	940	0.369	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.480	42	914	0.386	ng	100
6) bis(2-Chloroethyl)ether	6.990	93	2504	0.374	ng	100
9) Naphthalene	10.362	128	6705	0.374	ng	100
10) Hexachlorobutadiene	10.661	225	2010	0.383	ng	# 100
12) 2-Methylnaphthalene	11.988	142	4884	0.369	ng	100
16) Acenaphthylene	13.908	152	8034	0.348	ng	100
17) Acenaphthene	14.251	154	5401	0.357	ng	100
18) Fluorene	15.245	166	7900	0.355	ng	100
20) 4,6-Dinitro-2-methylph...	15.330	198	979	0.348	ng	100
21) 4-Bromophenyl-phenylether	16.145	248	3317	0.386	ng	100
22) Hexachlorobenzene	16.244	284	3412	0.382	ng	100
23) Atrazine	16.418	200	2925	0.379	ng	100
24) Pentachlorophenol	16.592	266	1402	0.336	ng	100
25) Phenanthrene	16.977	178	13558	0.382	ng	100
26) Anthracene	17.064	178	12422	0.381	ng	100
28) Fluoranthene	19.004	202	18716	0.383	ng	100
30) Pyrene	19.366	202	19252	0.387	ng	100
32) Benzo(a)anthracene	21.122	228	19844	0.381	ng	100
33) Chrysene	21.176	228	19908	0.386	ng	100
34) Bis(2-ethylhexyl)phtha...	21.077	149	9671	0.357	ng	100
36) Indeno(1,2,3-cd)pyrene	25.453	276	25986	0.381	ng	100
37) Benzo(b)fluoranthene	22.658	252	21843	0.380	ng	100
38) Benzo(k)fluoranthene	22.701	252	21977	0.382	ng	100
39) Benzo(a)pyrene	23.207	252	19170	0.379	ng	100
40) Dibenzo(a,h)anthracene	25.467	278	20655	0.383	ng	100
41) Benzo(g,h,i)perylene	26.105	276	21955	0.382	ng	100

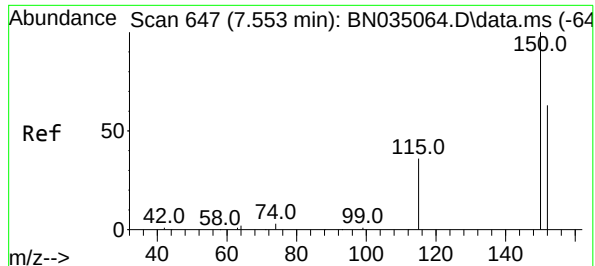
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035064.D
Acq On : 13 Nov 2024 13:52
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 13 16:43:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

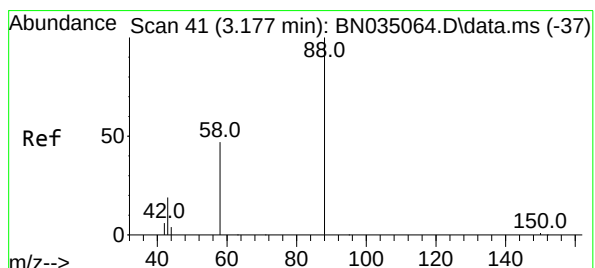
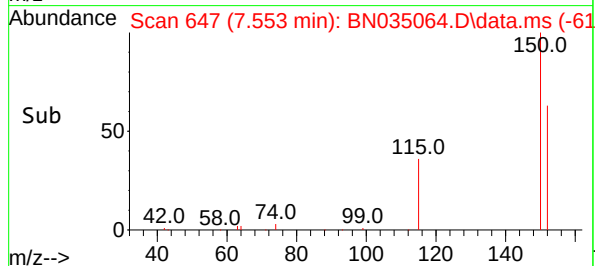
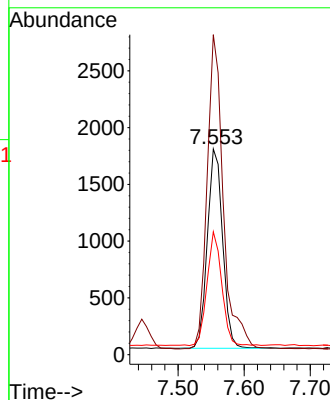
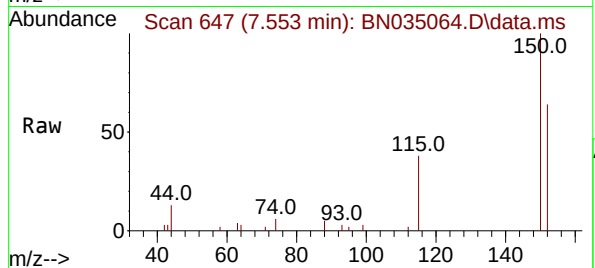




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

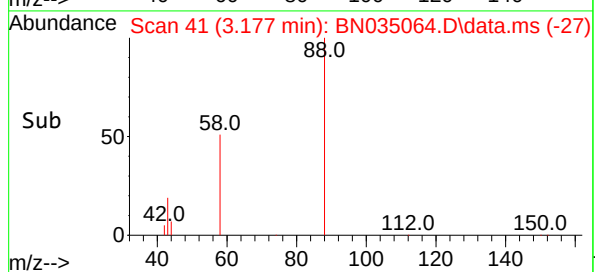
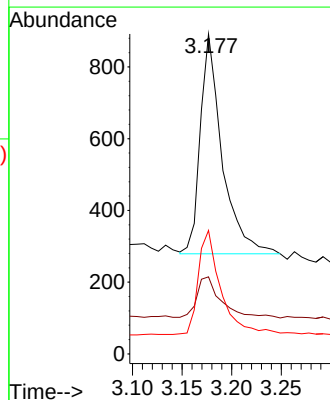
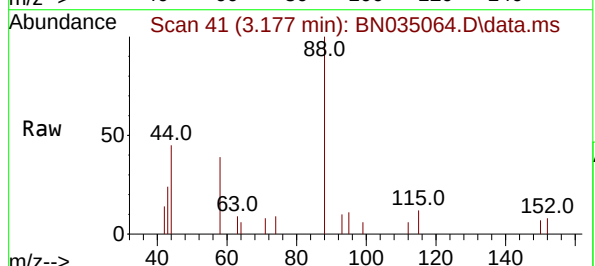
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

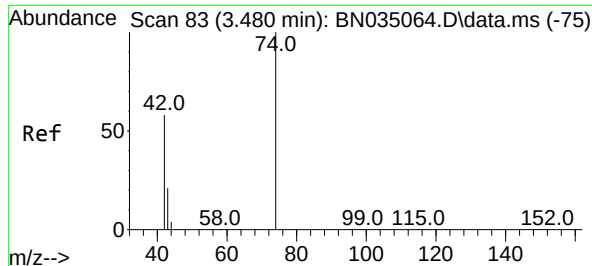
Tgt Ion:152 Resp: 2804
Ion Ratio Lower Upper
152 100
150 155.6 124.5 186.7
115 59.7 47.8 71.6



#2
1,4-Dioxane
Concen: 0.369 ng
RT: 3.177 min Scan# 41
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion: 88 Resp: 940
Ion Ratio Lower Upper
88 100
43 21.1 16.9 25.3
58 48.7 39.0 58.4

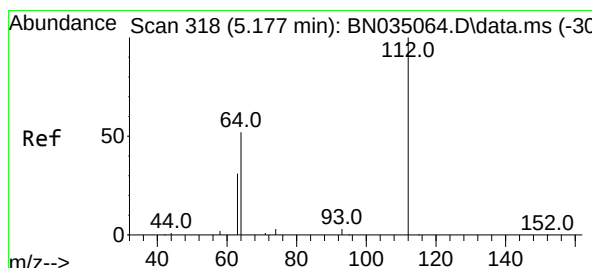
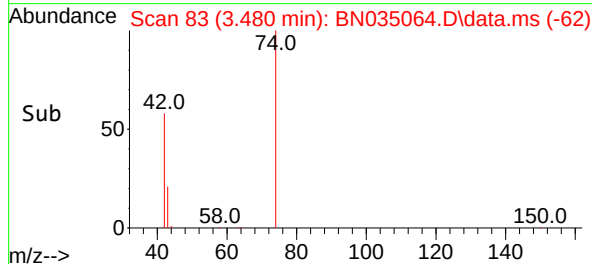
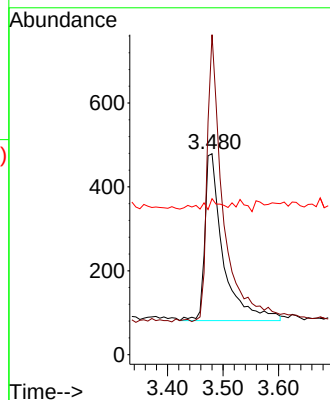
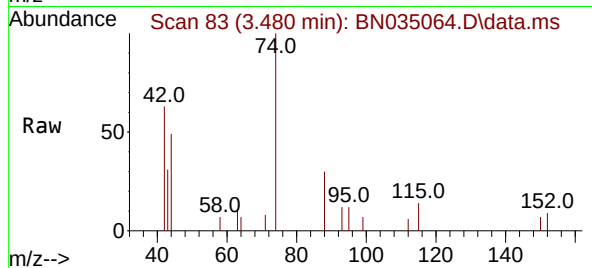




#3
n-Nitrosodimethylamine
Concen: 0.386 ng
RT: 3.480 min Scan# 83
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

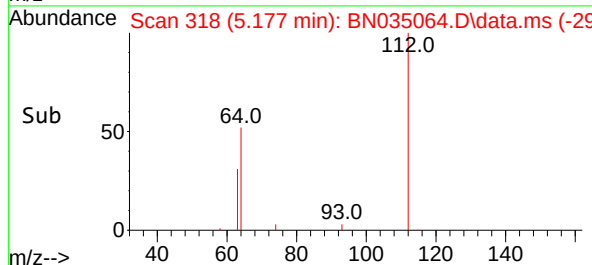
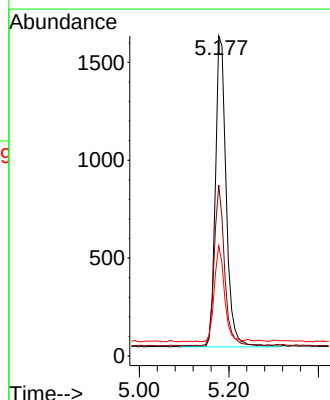
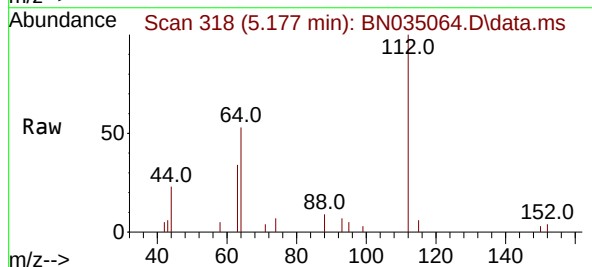
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

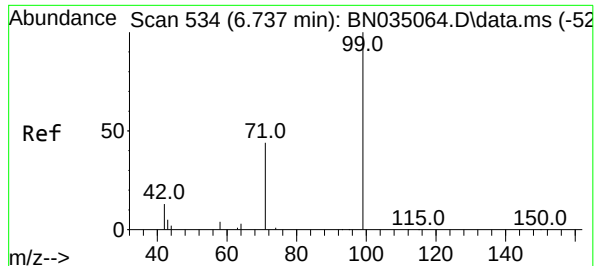
Tgt Ion: 42 Resp: 914
Ion Ratio Lower Upper
42 100
74 151.0 120.8 181.2
44 3.6 2.9 4.3



#4
2-Fluorophenol
Concen: 0.374 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion: 112 Resp: 2661
Ion Ratio Lower Upper
112 100
64 49.6 39.7 59.5
63 28.7 23.0 34.4

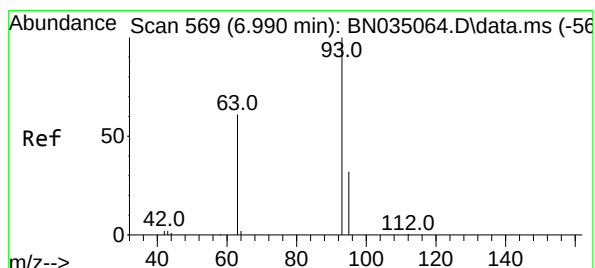
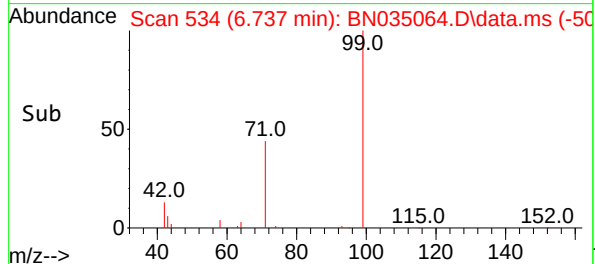
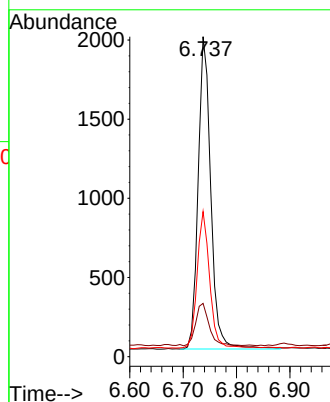
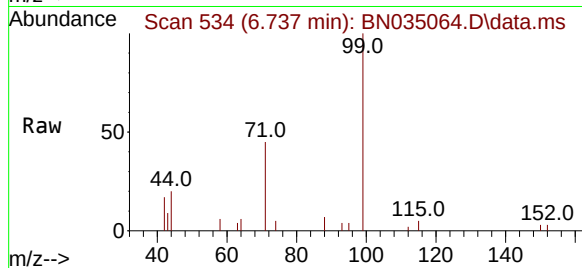




#5
Phenol-d6
Concen: 0.364 ng
RT: 6.737 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

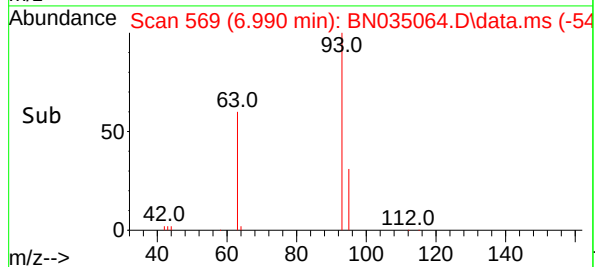
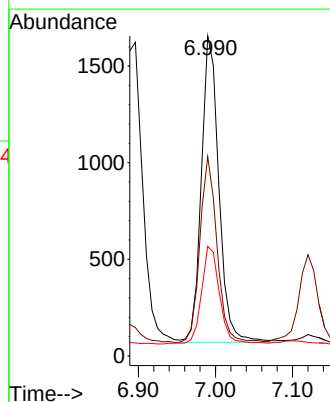
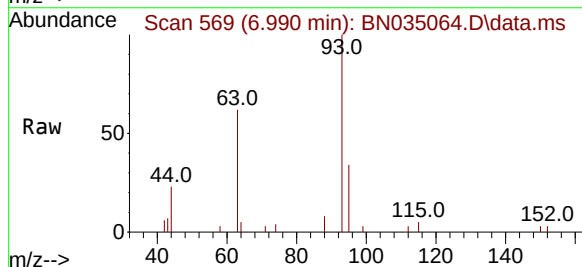
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

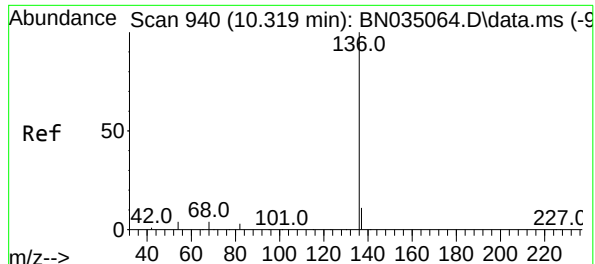
Tgt Ion: 99 Resp: 3250
Ion Ratio Lower Upper
99 100
42 14.2 11.4 17.0
71 43.2 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.374 ng
RT: 6.990 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion: 93 Resp: 2504
Ion Ratio Lower Upper
93 100
63 59.3 47.4 71.2
95 32.8 26.2 39.4

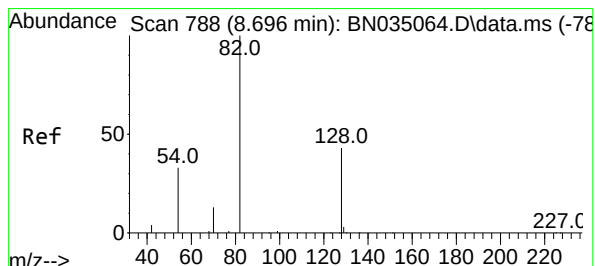
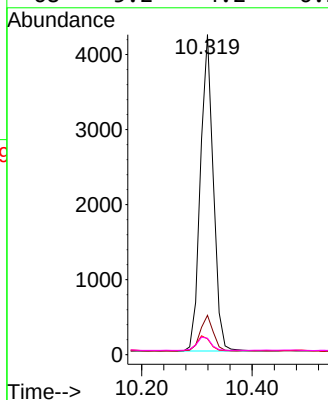
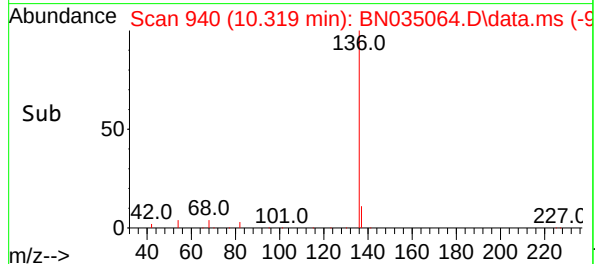
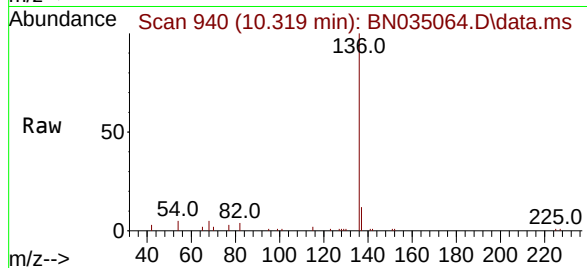




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

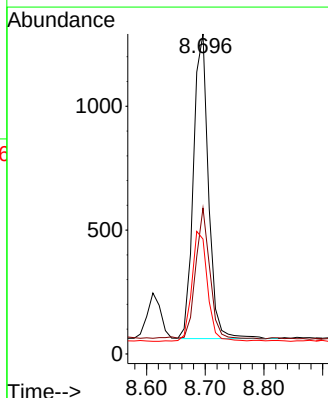
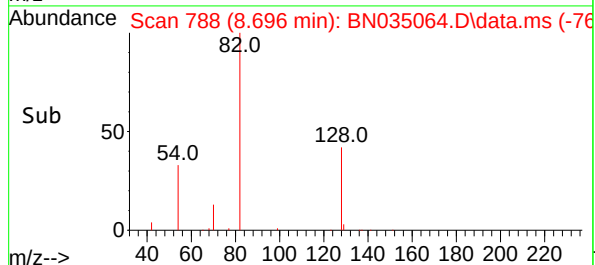
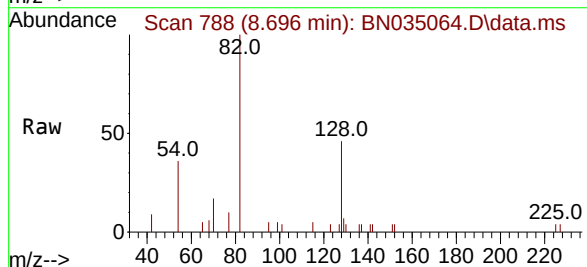
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

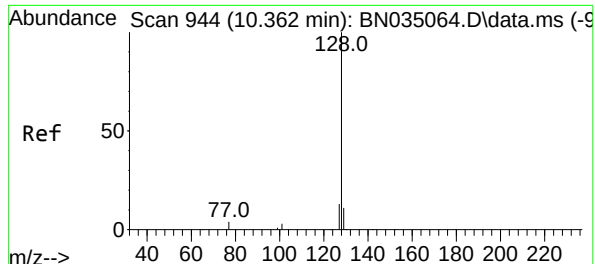
Tgt Ion:	136	Resp:	6865
Ion Ratio	Lower	Upper	
136	100		
137	12.3	9.8	14.8
54	5.0	4.0	6.0
68	5.2	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.369 ng
RT: 8.696 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:	82	Resp:	2197
Ion Ratio	Lower	Upper	
82	100		
128	45.6	36.5	54.7
54	35.9	28.7	43.1

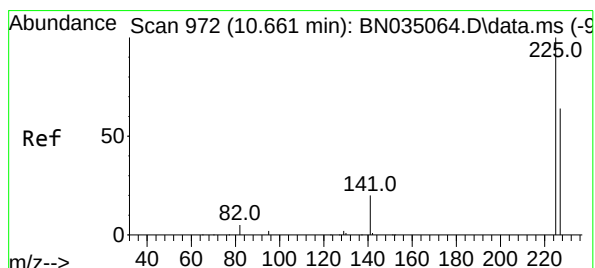
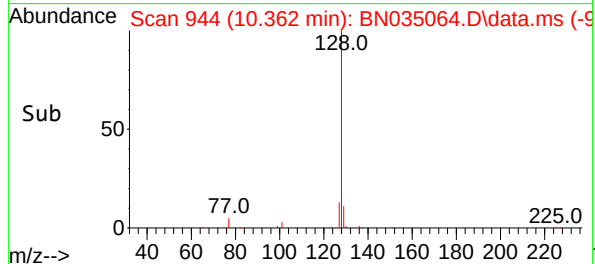
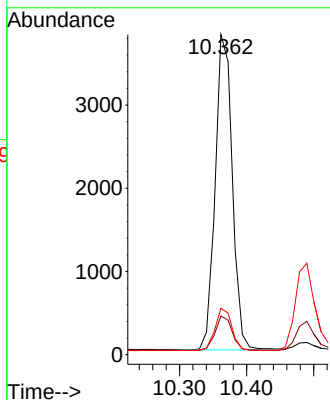
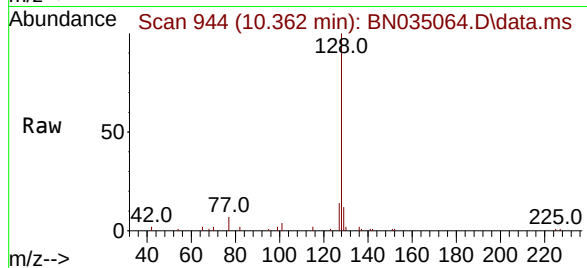




#9
Naphthalene
Concen: 0.374 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

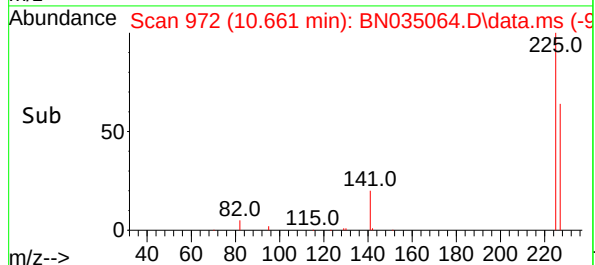
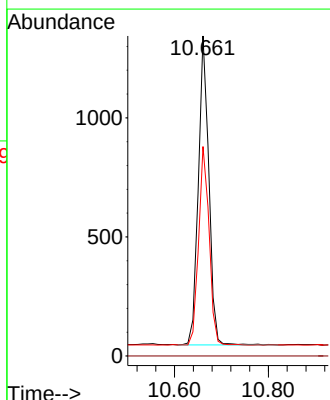
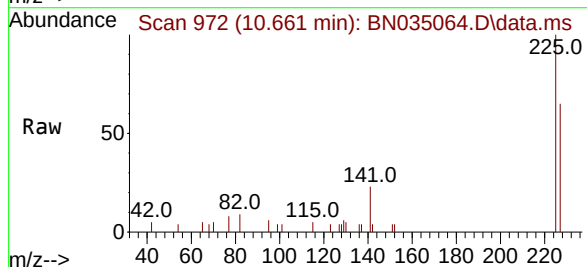
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

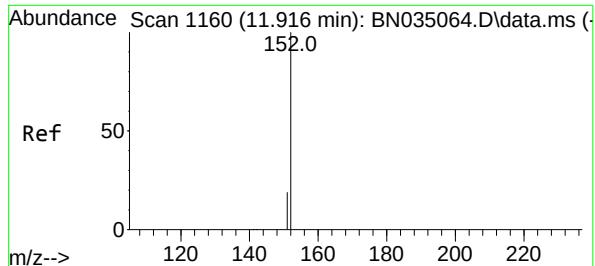
Tgt Ion:128 Resp: 6705
Ion Ratio Lower Upper
128 100
129 12.0 9.6 14.4
127 14.5 11.6 17.4



#10
Hexachlorobutadiene
Concen: 0.383 ng
RT: 10.661 min Scan# 972
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:225 Resp: 2010
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 51.5 77.3

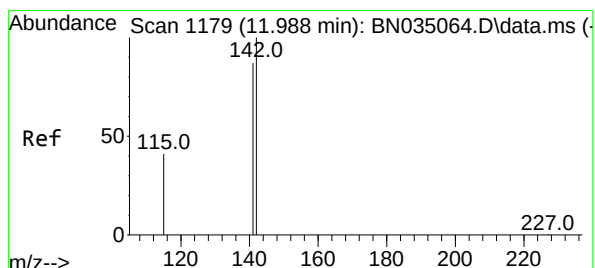
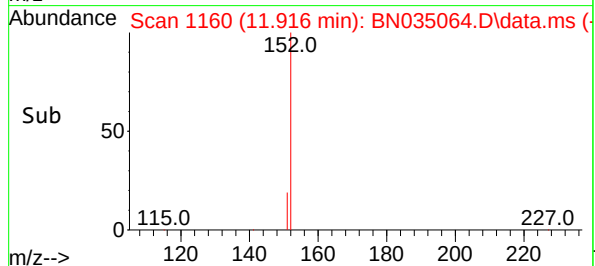
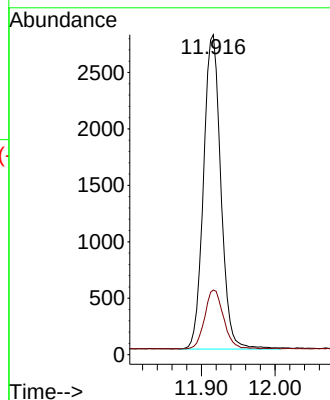
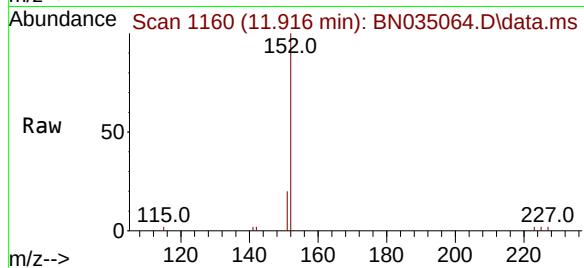




#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 11.916 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

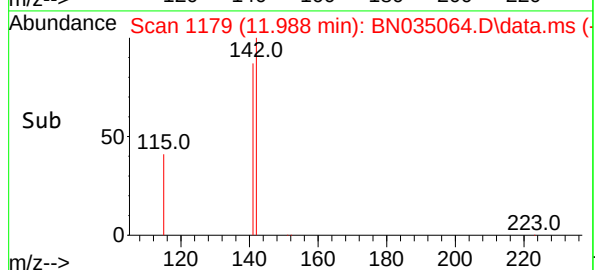
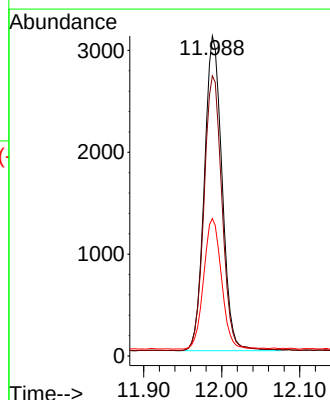
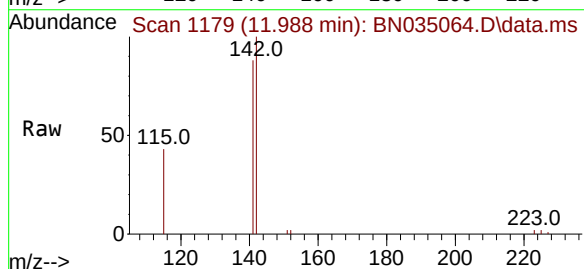
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

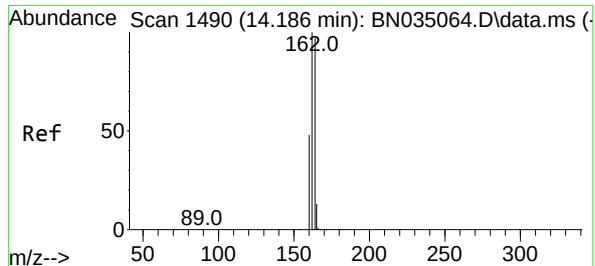
Tgt Ion:152 Resp: 4559
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 11.988 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:142 Resp: 4884
Ion Ratio Lower Upper
142 100
141 87.6 70.1 105.1
115 43.0 34.4 51.6

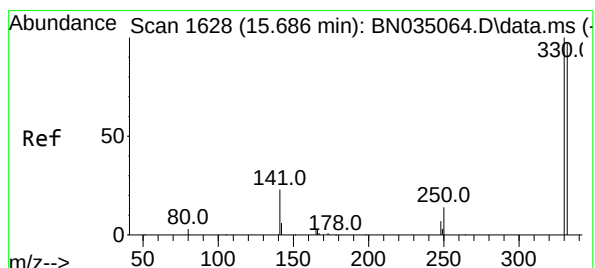
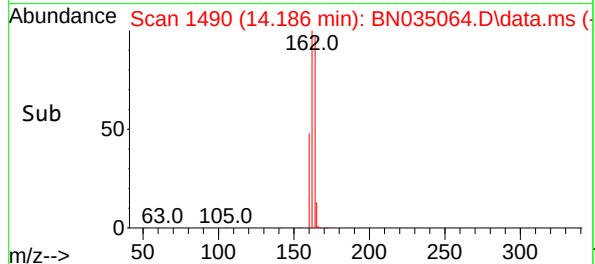
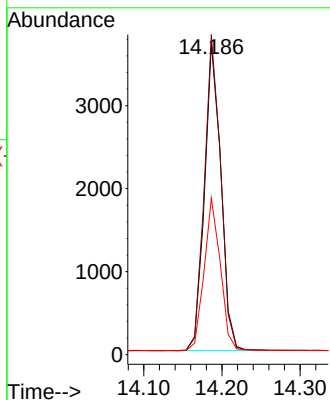
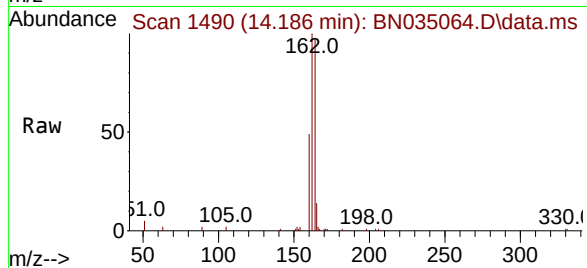




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

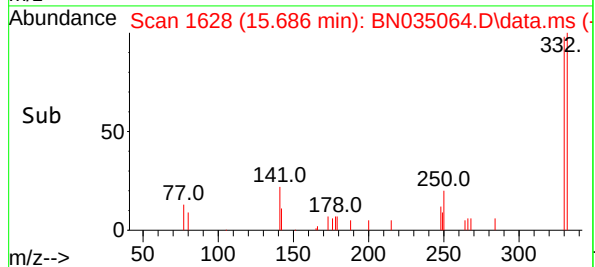
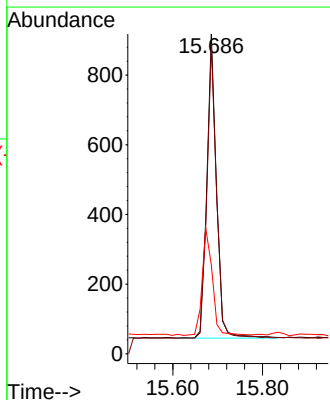
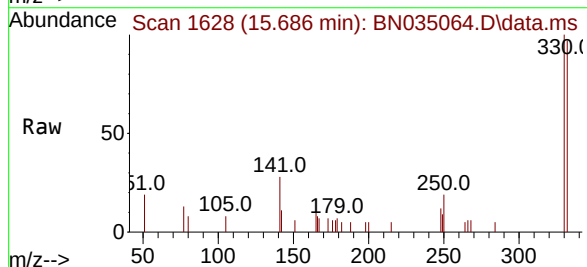
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

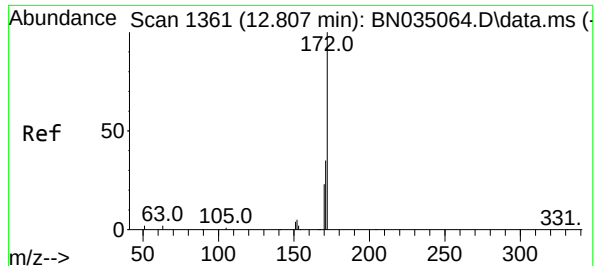
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	50.3	40.2	60.4



#14
2,4,6-Tribromophenol
Concen: 0.333 ng
RT: 15.686 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.9	115.3
141	37.0	29.6	44.4





#15

2-Fluorobiphenyl

Concen: 0.360 ng

RT: 12.807 min Scan# 1361

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

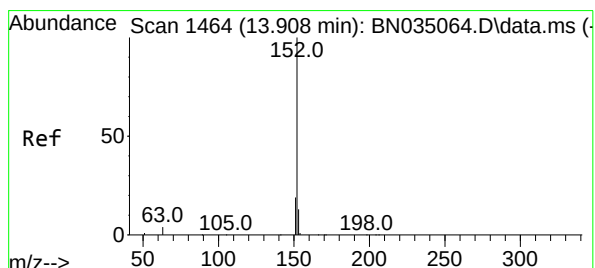
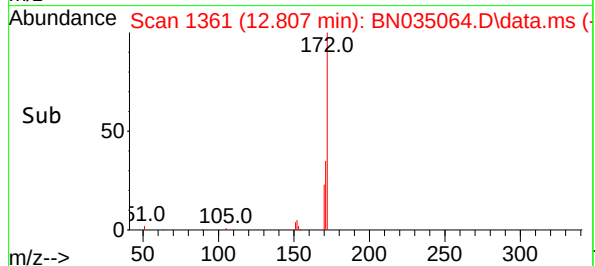
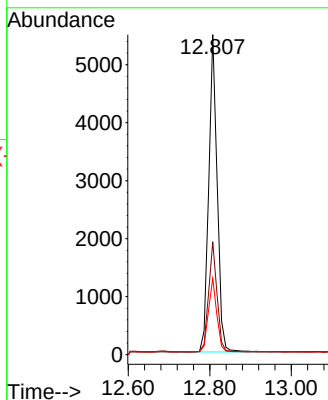
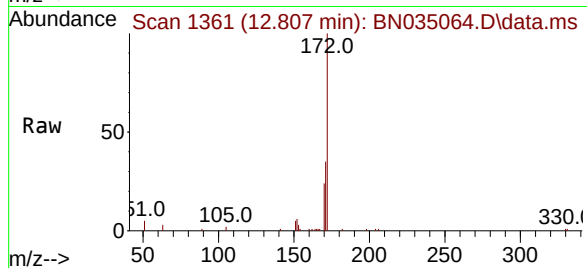
Tgt Ion:172 Resp: 7888

Ion Ratio Lower Upper

172 100

171 35.3 28.2 42.4

170 23.8 19.0 28.6



#16

Acenaphthylene

Concen: 0.348 ng

RT: 13.908 min Scan# 1464

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

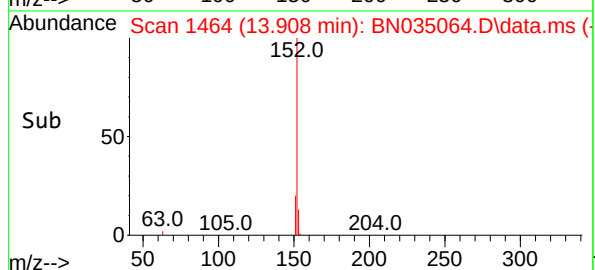
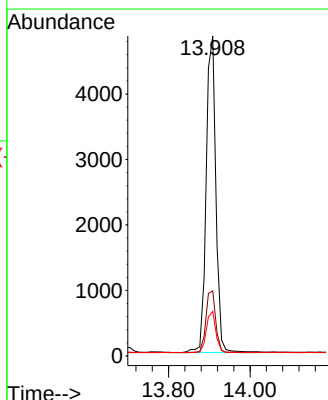
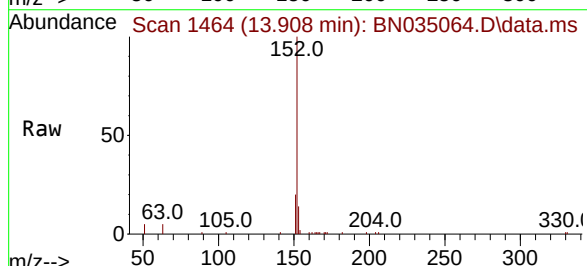
Tgt Ion:152 Resp: 8034

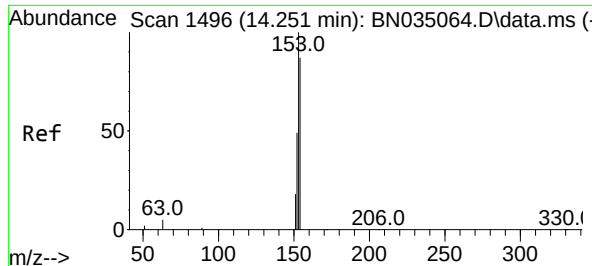
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 12.8 10.2 15.4

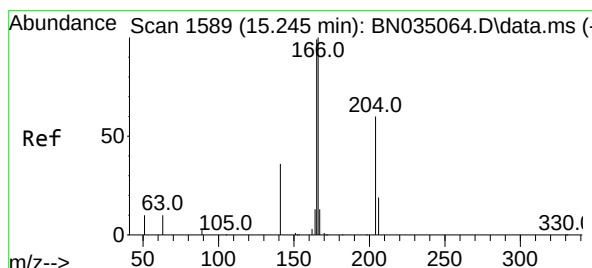
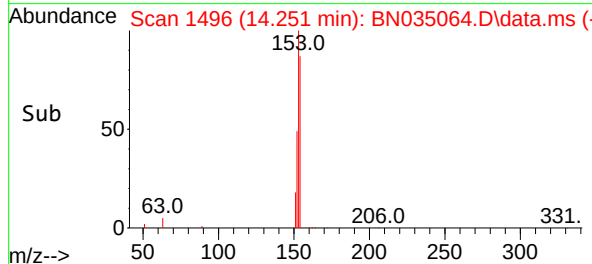
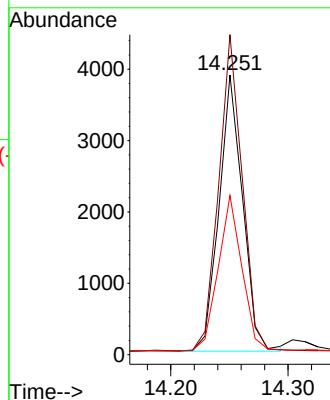
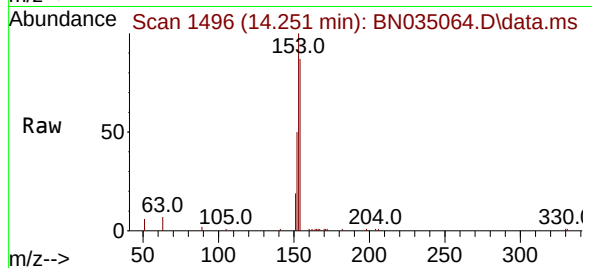




#17
Acenaphthene
Concen: 0.357 ng
RT: 14.251 min Scan# 1496
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

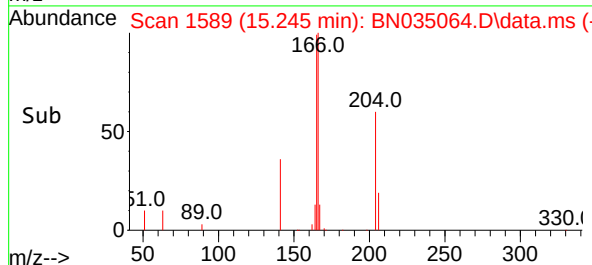
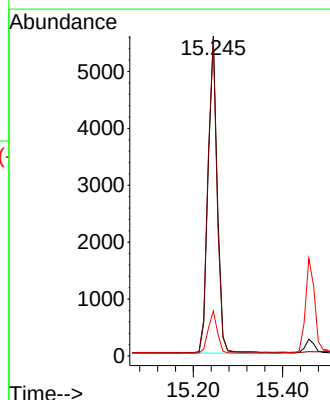
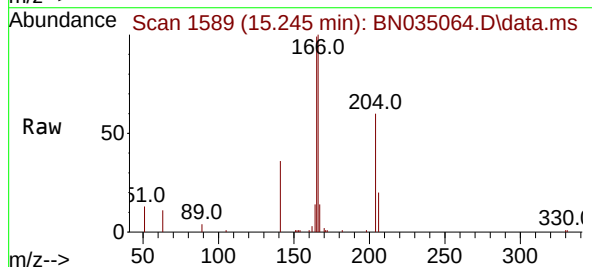
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

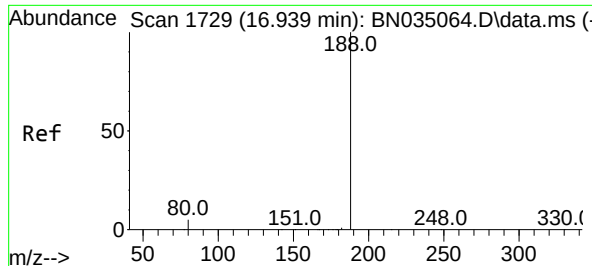
Tgt Ion:154 Resp: 5401
Ion Ratio Lower Upper
154 100
153 114.5 91.6 137.4
152 57.2 45.8 68.6



#18
Fluorene
Concen: 0.355 ng
RT: 15.245 min Scan# 1589
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:166 Resp: 7900
Ion Ratio Lower Upper
166 100
165 98.9 79.1 118.7
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.939 min Scan# 1729

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

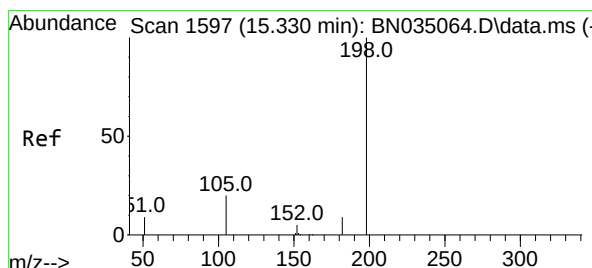
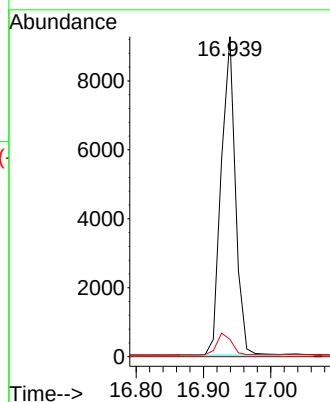
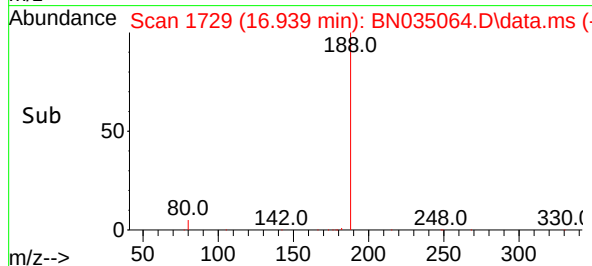
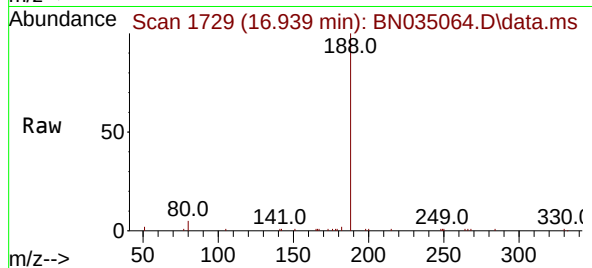
Tgt Ion:188 Resp: 13499

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.4 4.3 6.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.348 ng

RT: 15.330 min Scan# 1597

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

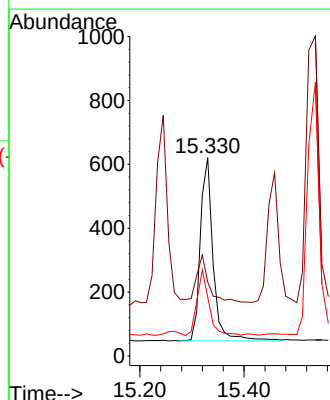
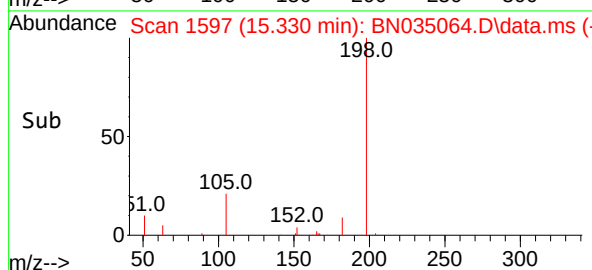
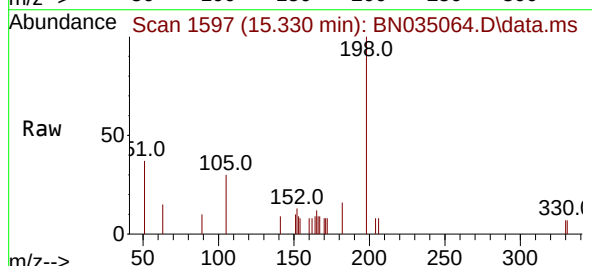
Tgt Ion:198 Resp: 979

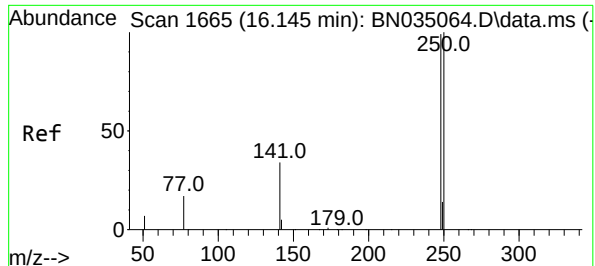
Ion Ratio Lower Upper

198 100

51 37.4 29.9 44.9

105 29.6 23.7 35.5

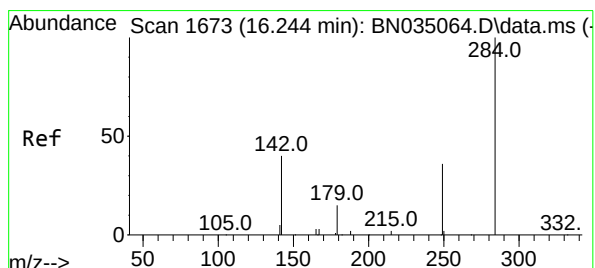
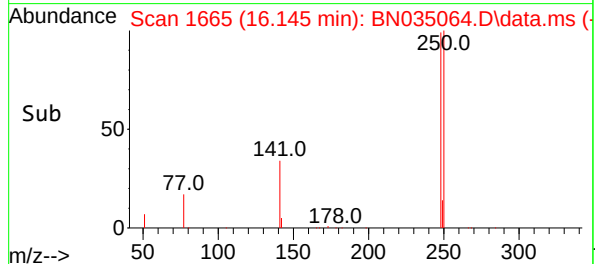
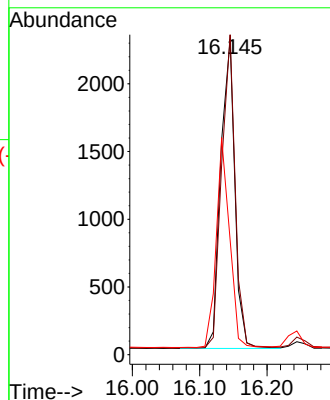
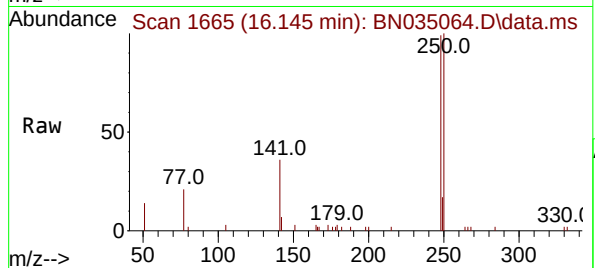




#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.145 min Scan# 1665
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

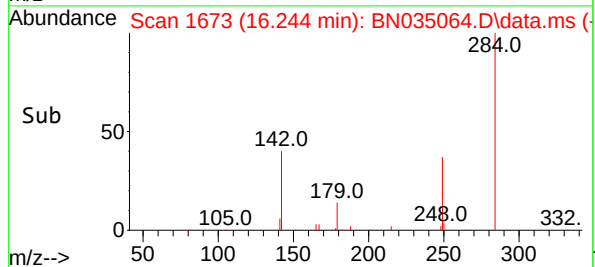
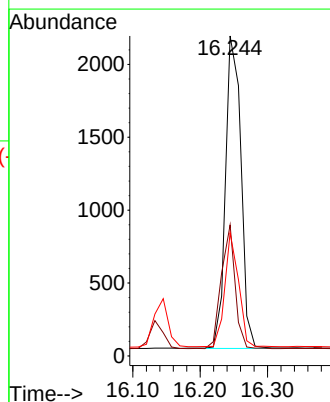
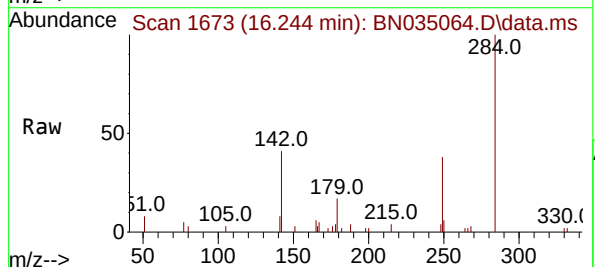
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

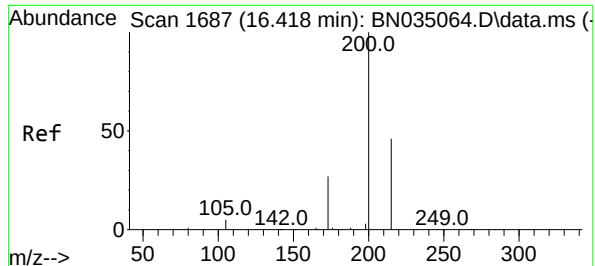
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.5	81.2	121.8
141	36.4	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.382 ng
RT: 16.244 min Scan# 1673
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.3	28.2	42.4
249	32.7	26.2	39.2





#23

Atrazine

Concen: 0.379 ng

RT: 16.418 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

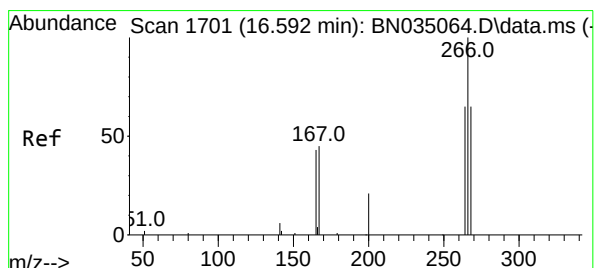
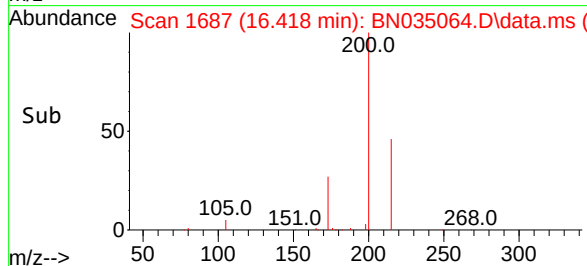
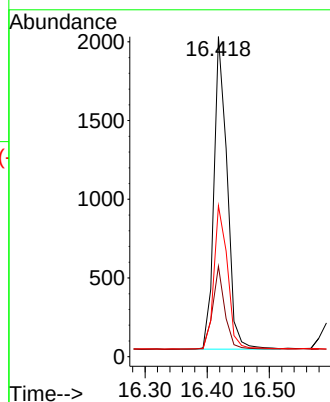
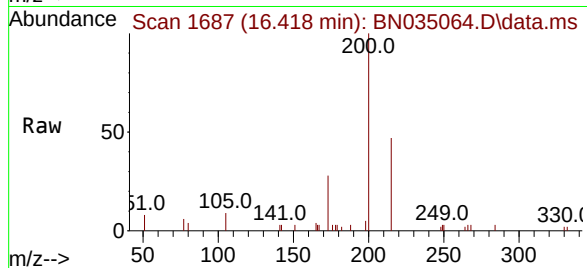
Tgt Ion:200 Resp: 2925

Ion Ratio Lower Upper

200 100

173 28.2 22.6 33.8

215 47.2 37.8 56.6



#24

Pentachlorophenol

Concen: 0.336 ng

RT: 16.592 min Scan# 1701

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

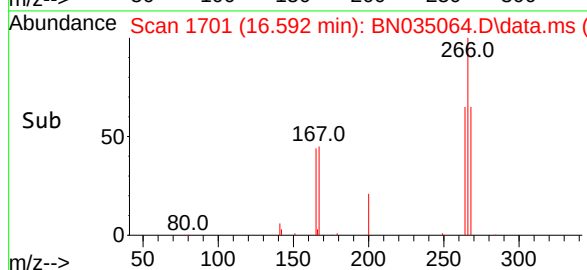
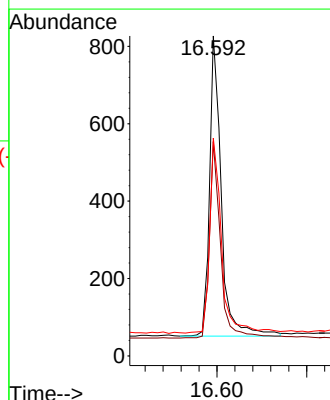
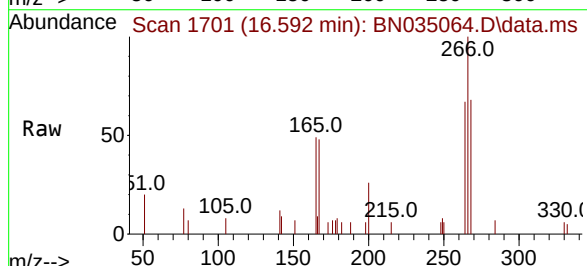
Tgt Ion:266 Resp: 1402

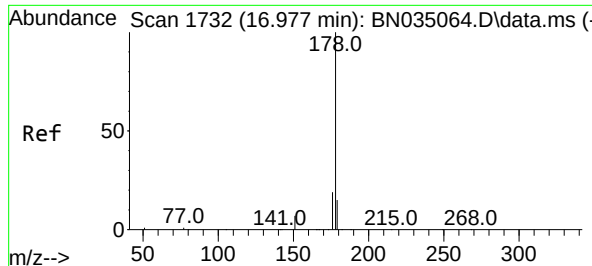
Ion Ratio Lower Upper

266 100

264 61.7 49.4 74.0

268 65.8 52.6 79.0

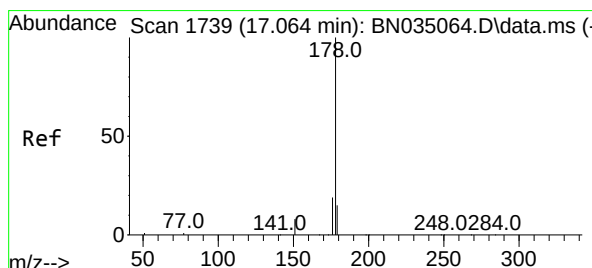
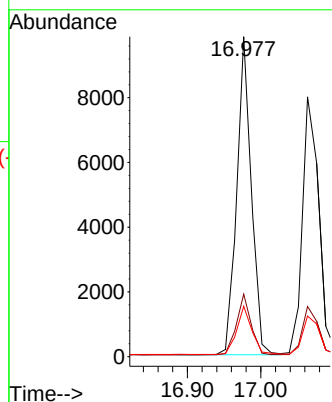
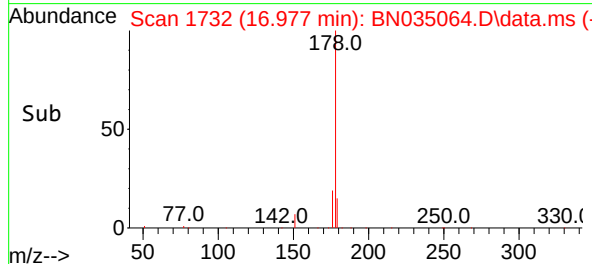
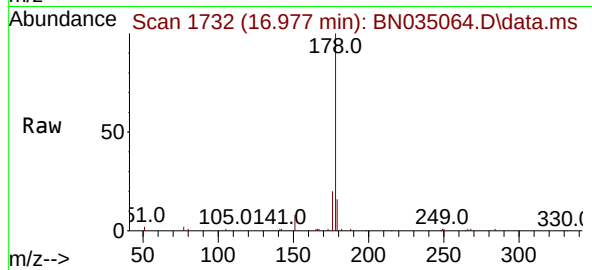




#25
Phenanthrene
Concen: 0.382 ng
RT: 16.977 min Scan# 1732
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

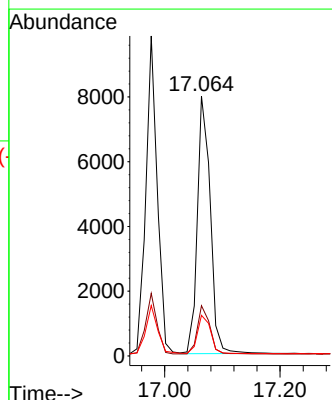
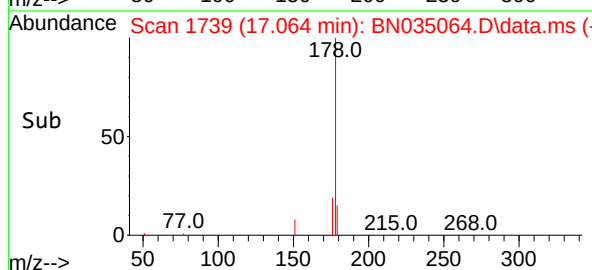
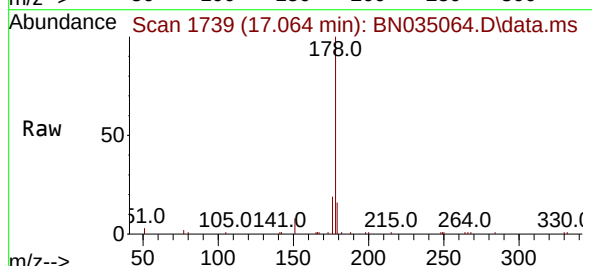
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

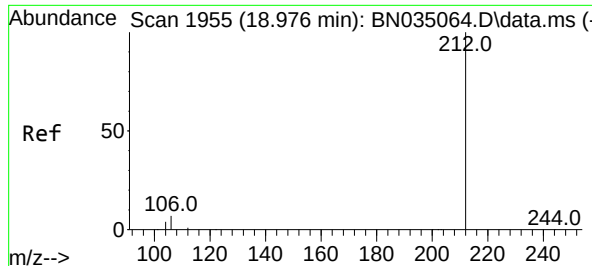
Tgt Ion:178 Resp: 13558
Ion Ratio Lower Upper
178 100
176 19.0 15.2 22.8
179 15.7 12.6 18.8



#26
Anthracene
Concen: 0.381 ng
RT: 17.064 min Scan# 1739
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion:178 Resp: 12422
Ion Ratio Lower Upper
178 100
176 18.3 14.6 22.0
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.382 ng

RT: 18.976 min Scan# 1955

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

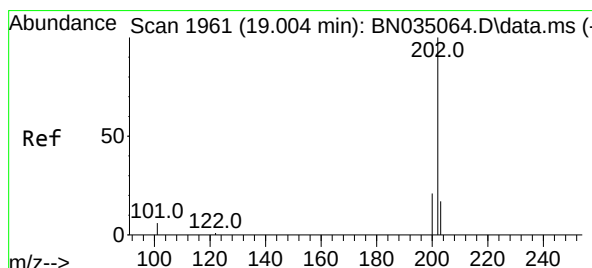
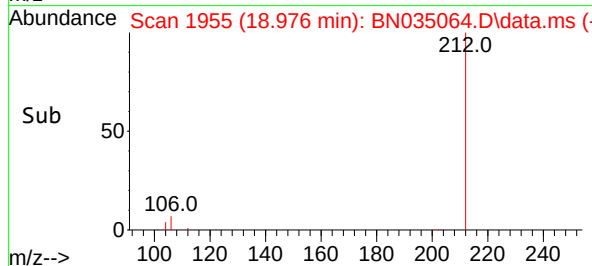
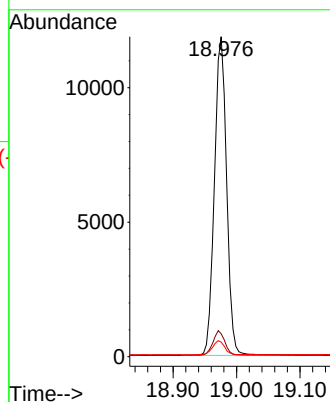
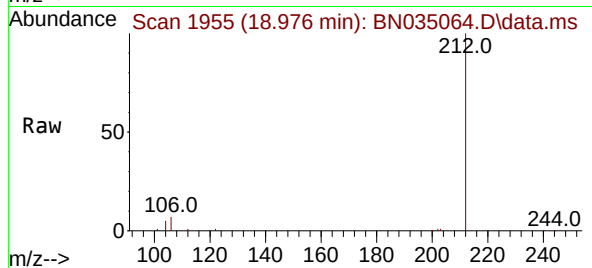
Tgt Ion:212 Resp: 15786

Ion Ratio Lower Upper

212 100

106 7.5 6.0 9.0

104 4.4 3.5 5.3



#28

Fluoranthene

Concen: 0.383 ng

RT: 19.004 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

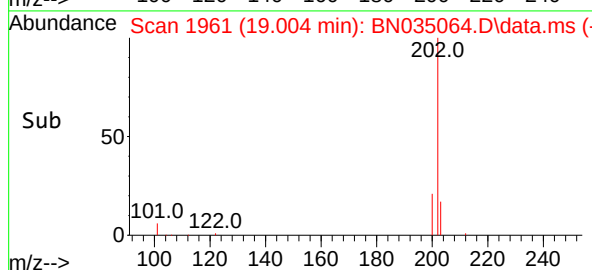
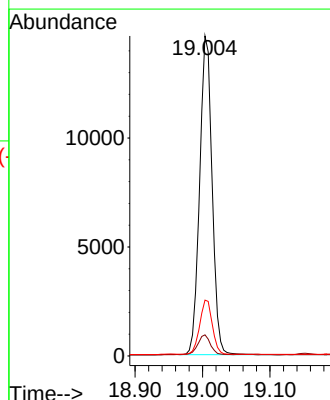
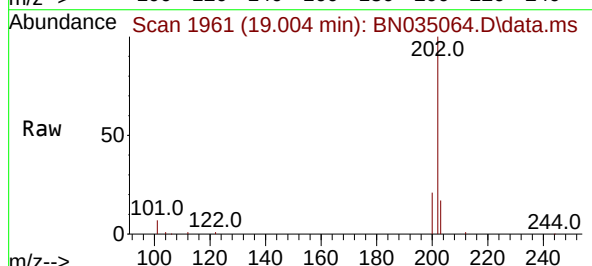
Tgt Ion:202 Resp: 18716

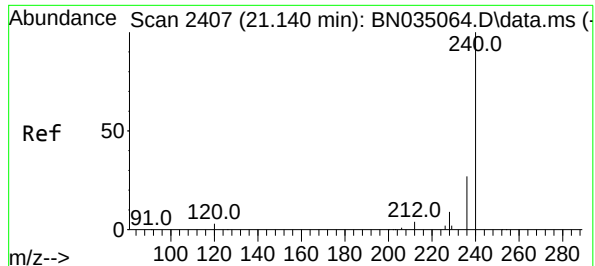
Ion Ratio Lower Upper

202 100

101 6.5 5.2 7.8

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.140 min Scan# 2407

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

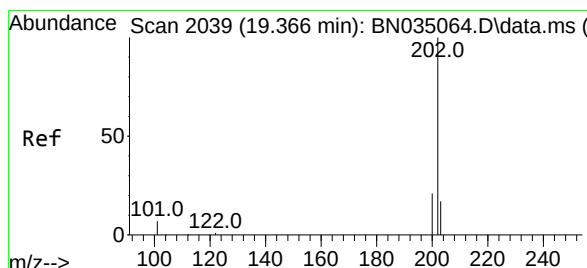
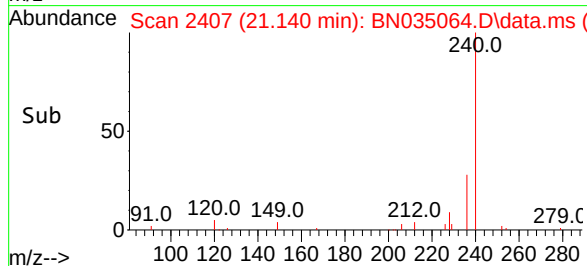
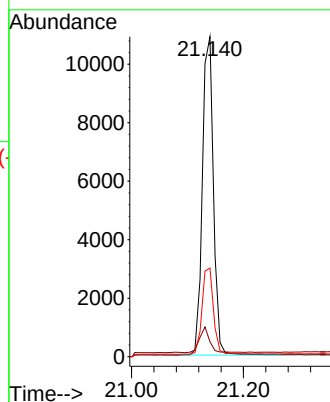
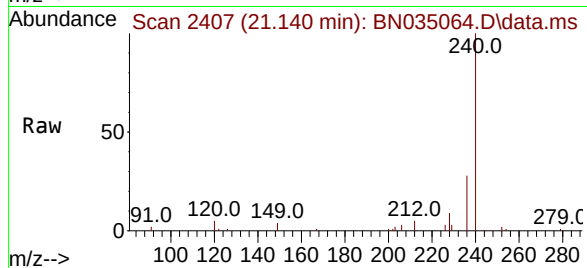
Tgt Ion:240 Resp: 14946

Ion Ratio Lower Upper

240 100

120 4.7 3.8 5.6

236 27.7 22.2 33.2



#30

Pyrene

Concen: 0.387 ng

RT: 19.366 min Scan# 2039

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

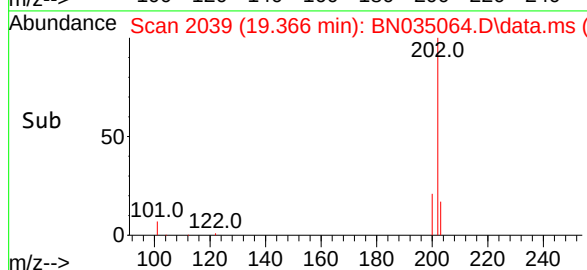
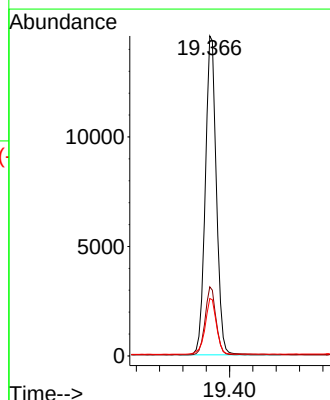
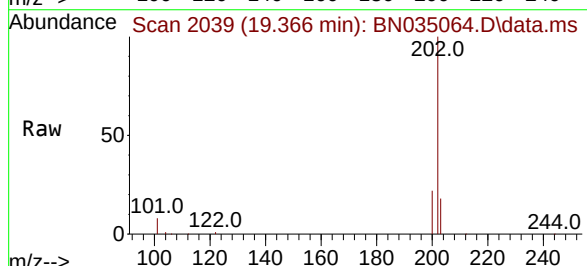
Tgt Ion:202 Resp: 19252

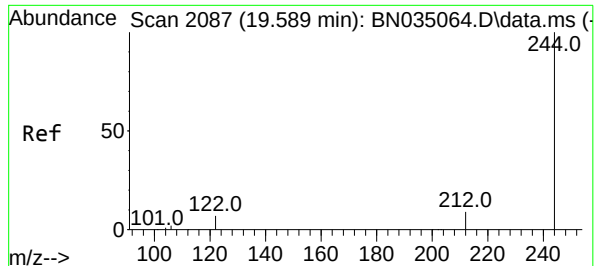
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.8 14.2 21.4

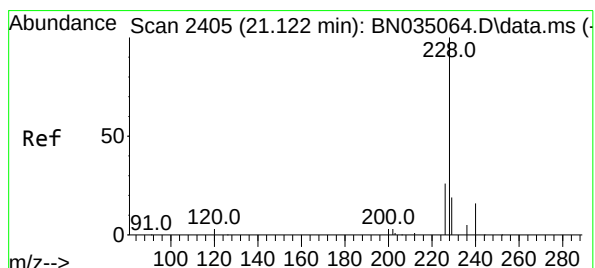
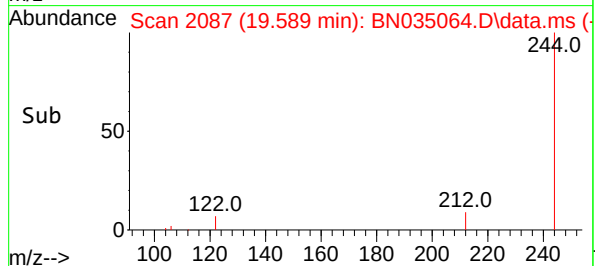
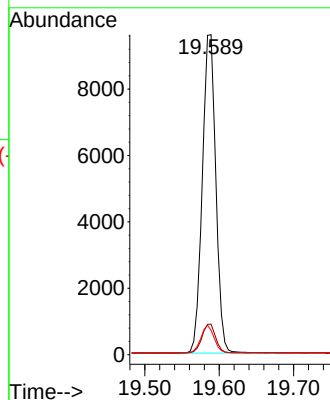
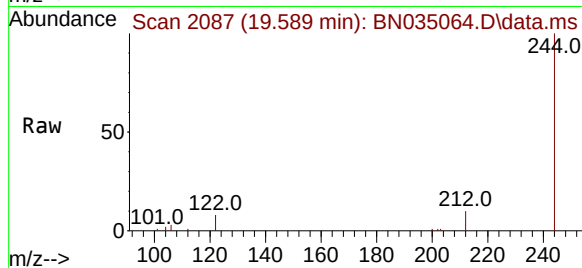




#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.589 min Scan# 2087
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

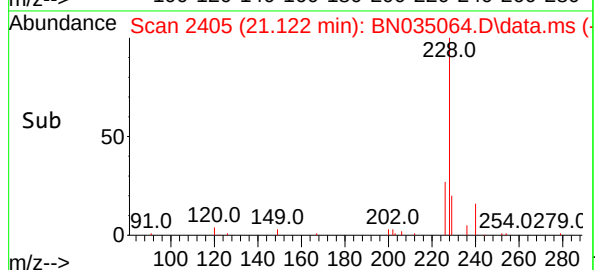
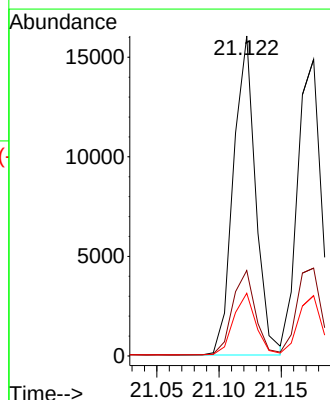
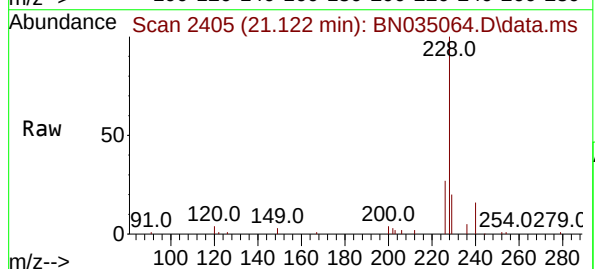
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

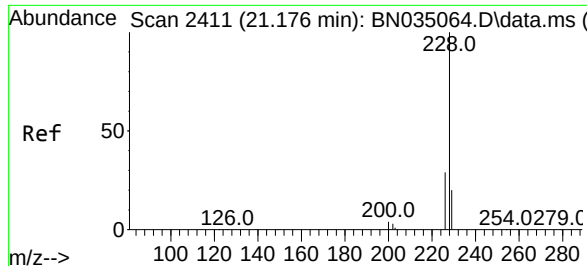
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	7.6	6.1	9.1



#32
Benzo(a)anthracene
Concen: 0.381 ng
RT: 21.122 min Scan# 2405
Delta R.T. 0.000 min
Lab File: BN035064.D
Acq: 13 Nov 2024 13:52

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.7	21.4	32.0
229	19.6	15.7	23.5





#33

Chrysene

Concen: 0.386 ng

RT: 21.176 min Scan# 2411

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

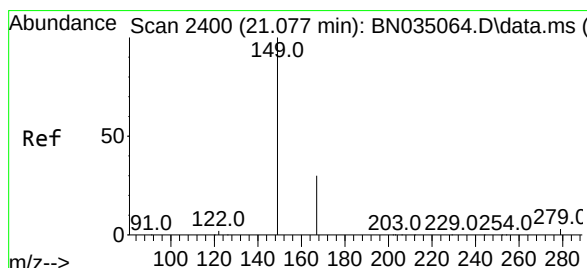
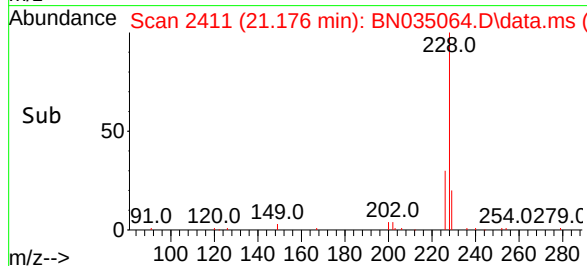
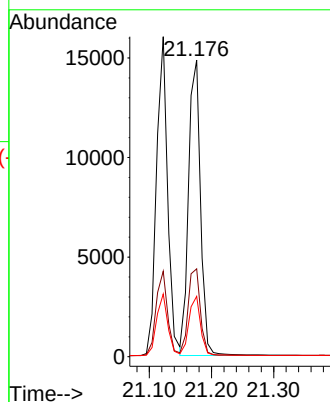
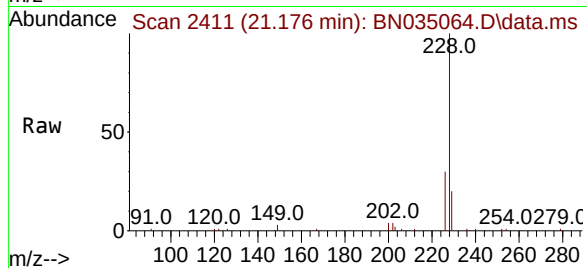
Tgt Ion:228 Resp: 19908

Ion Ratio Lower Upper

228 100

226 29.6 23.7 35.5

229 20.3 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.357 ng

RT: 21.077 min Scan# 2400

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

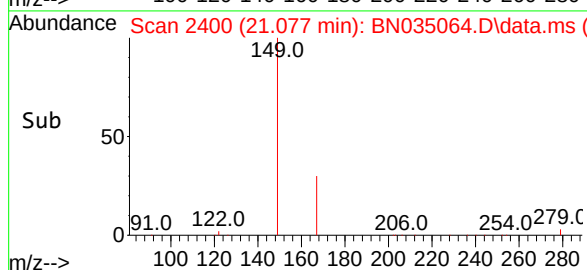
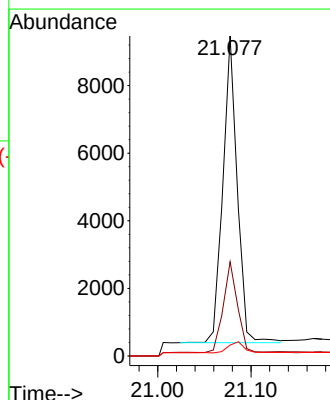
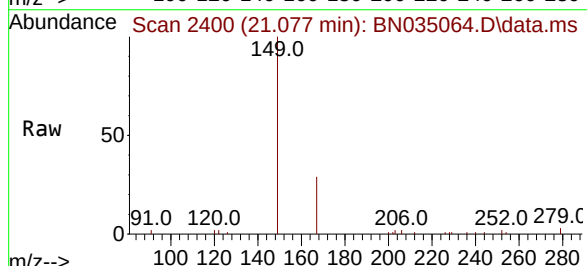
Tgt Ion:149 Resp: 9671

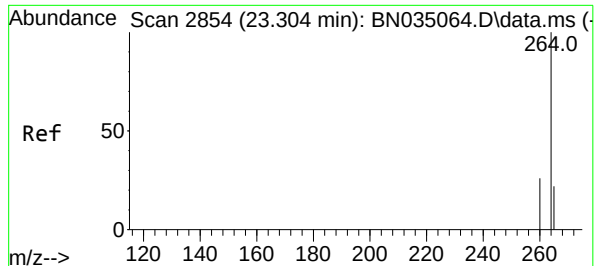
Ion Ratio Lower Upper

149 100

167 29.0 23.2 34.8

279 4.0 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

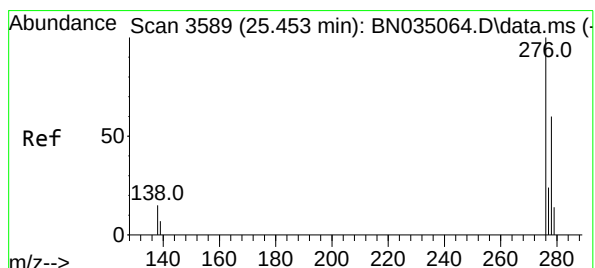
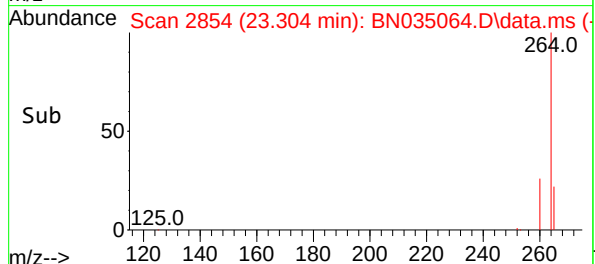
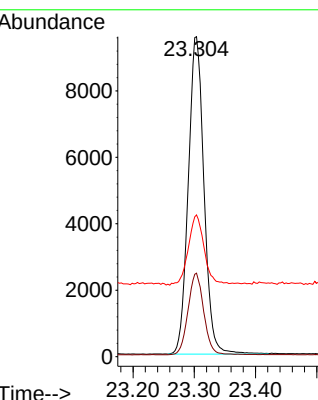
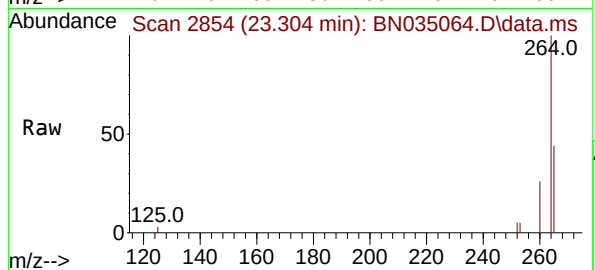
Tgt Ion:264 Resp: 17077

Ion Ratio Lower Upper

264 100

260 26.1 20.9 31.3

265 44.3 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.381 ng

RT: 25.453 min Scan# 3589

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

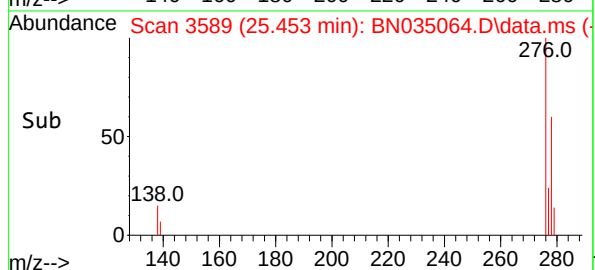
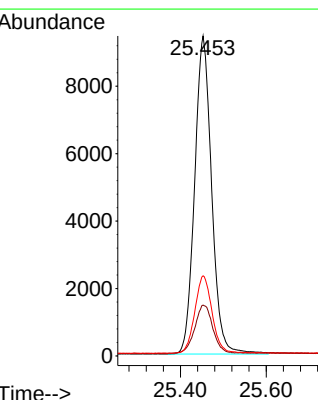
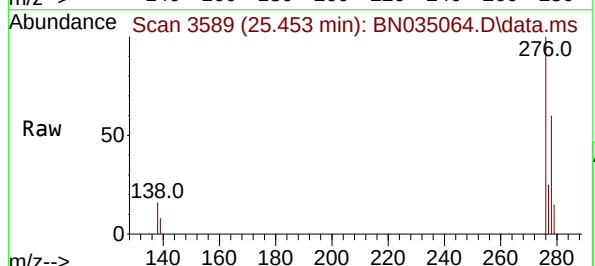
Tgt Ion:276 Resp: 25986

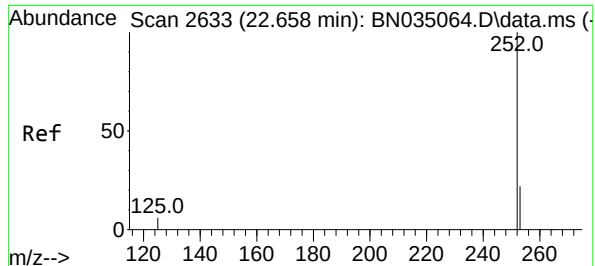
Ion Ratio Lower Upper

276 100

138 16.2 13.0 19.4

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.380 ng

RT: 22.658 min Scan# 2633

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

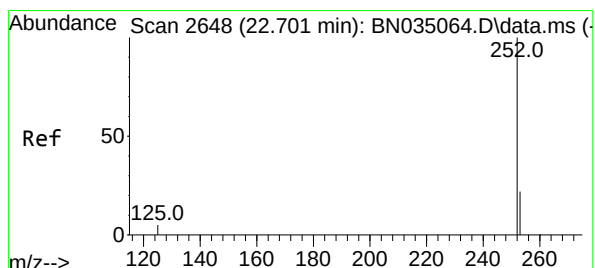
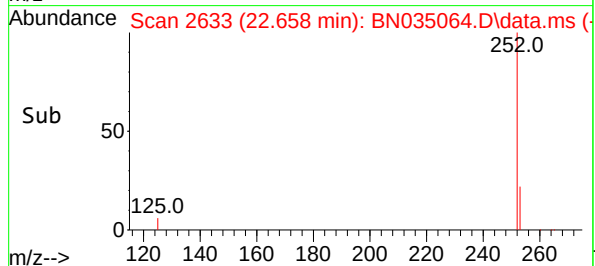
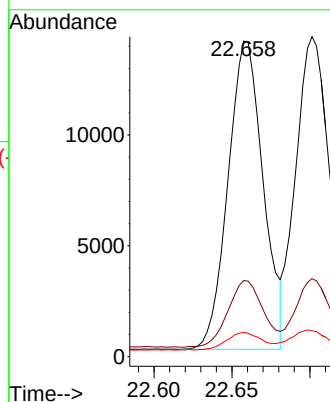
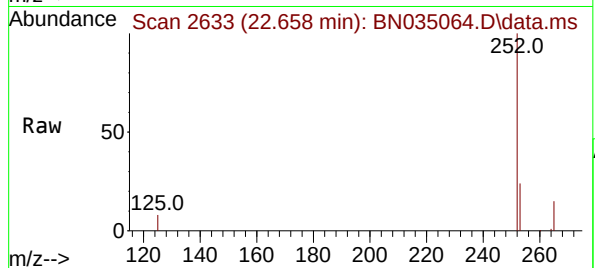
Tgt Ion:252 Resp: 21843

Ion Ratio Lower Upper

252 100

253 24.1 19.3 28.9

125 7.7 6.2 9.2



#38

Benzo(k)fluoranthene

Concen: 0.382 ng

RT: 22.701 min Scan# 2648

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

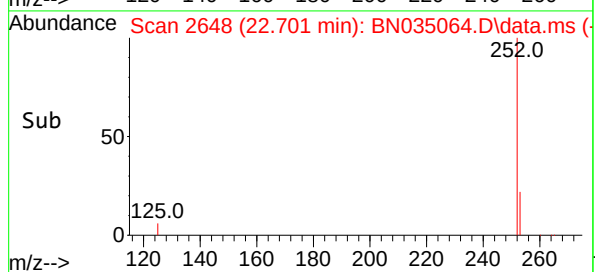
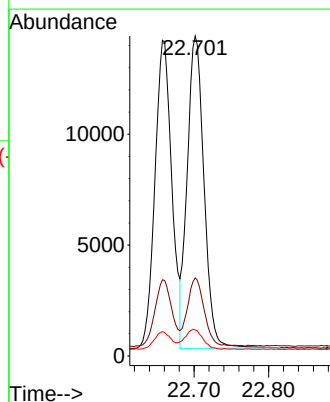
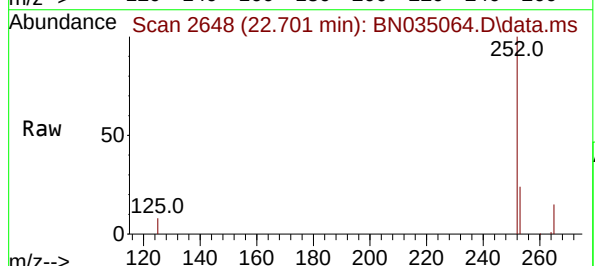
Tgt Ion:252 Resp: 21977

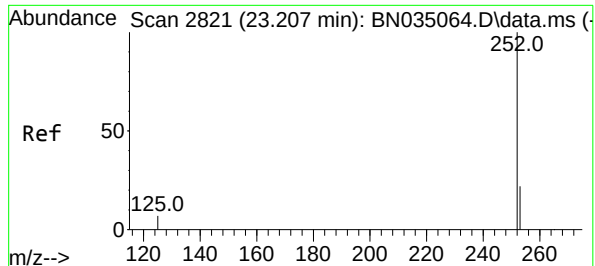
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 8.1 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.379 ng

RT: 23.207 min Scan# 2821

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

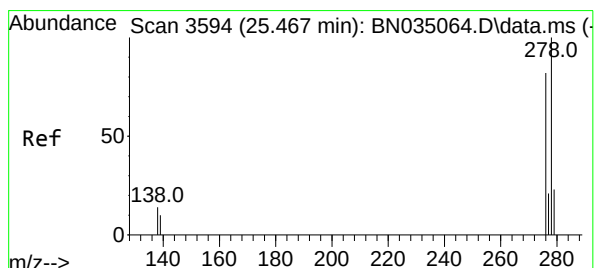
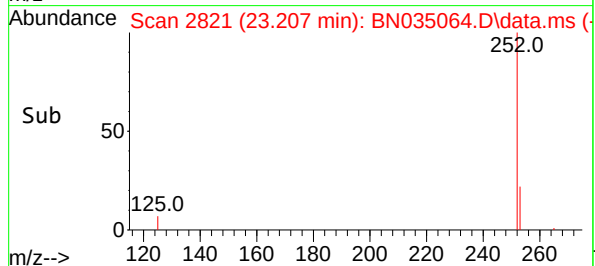
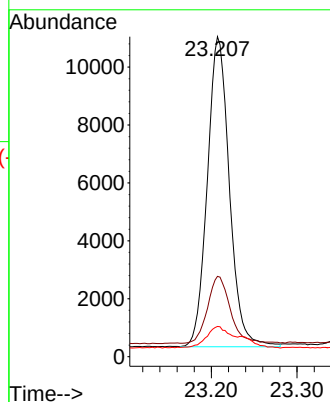
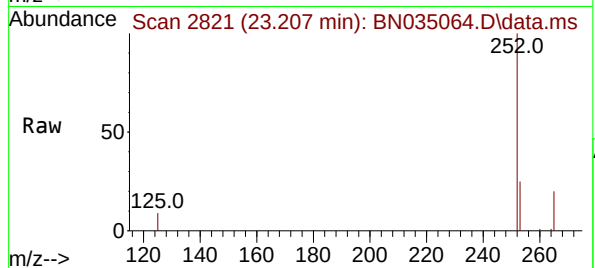
Tgt Ion:252 Resp: 19170

Ion Ratio Lower Upper

252 100

253 25.1 20.1 30.1

125 9.4 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.383 ng

RT: 25.467 min Scan# 3594

Delta R.T. 0.000 min

Lab File: BN035064.D

Acq: 13 Nov 2024 13:52

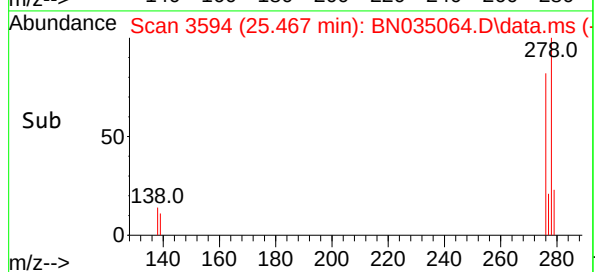
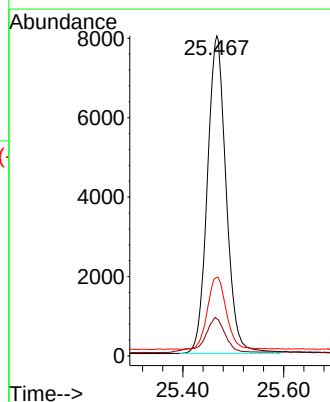
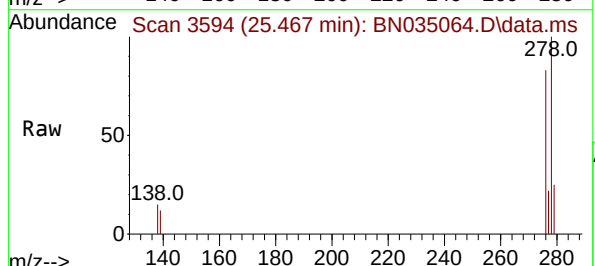
Tgt Ion:278 Resp: 20655

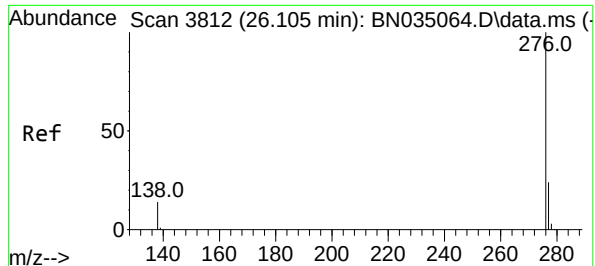
Ion Ratio Lower Upper

278 100

139 11.6 9.3 13.9

279 24.6 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.382 ng

RT: 26.105 min Scan# 3812

Delta R.T. 0.000 min

Lab File: BN035064.D

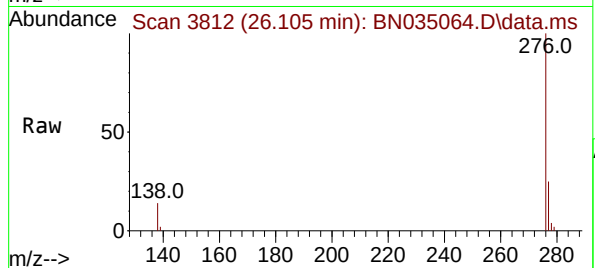
Acq: 13 Nov 2024 13:52

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



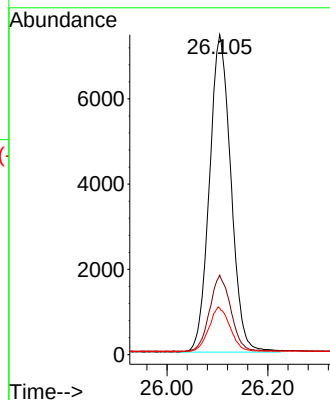
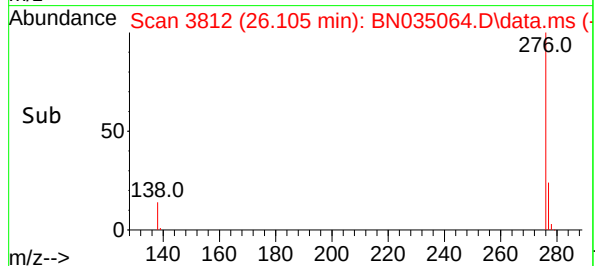
Tgt Ion:276 Resp: 21955

Ion Ratio Lower Upper

276 100

277 24.9 19.9 29.9

138 14.5 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035065.D
Acq On : 13 Nov 2024 14:28
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 13 16:44:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

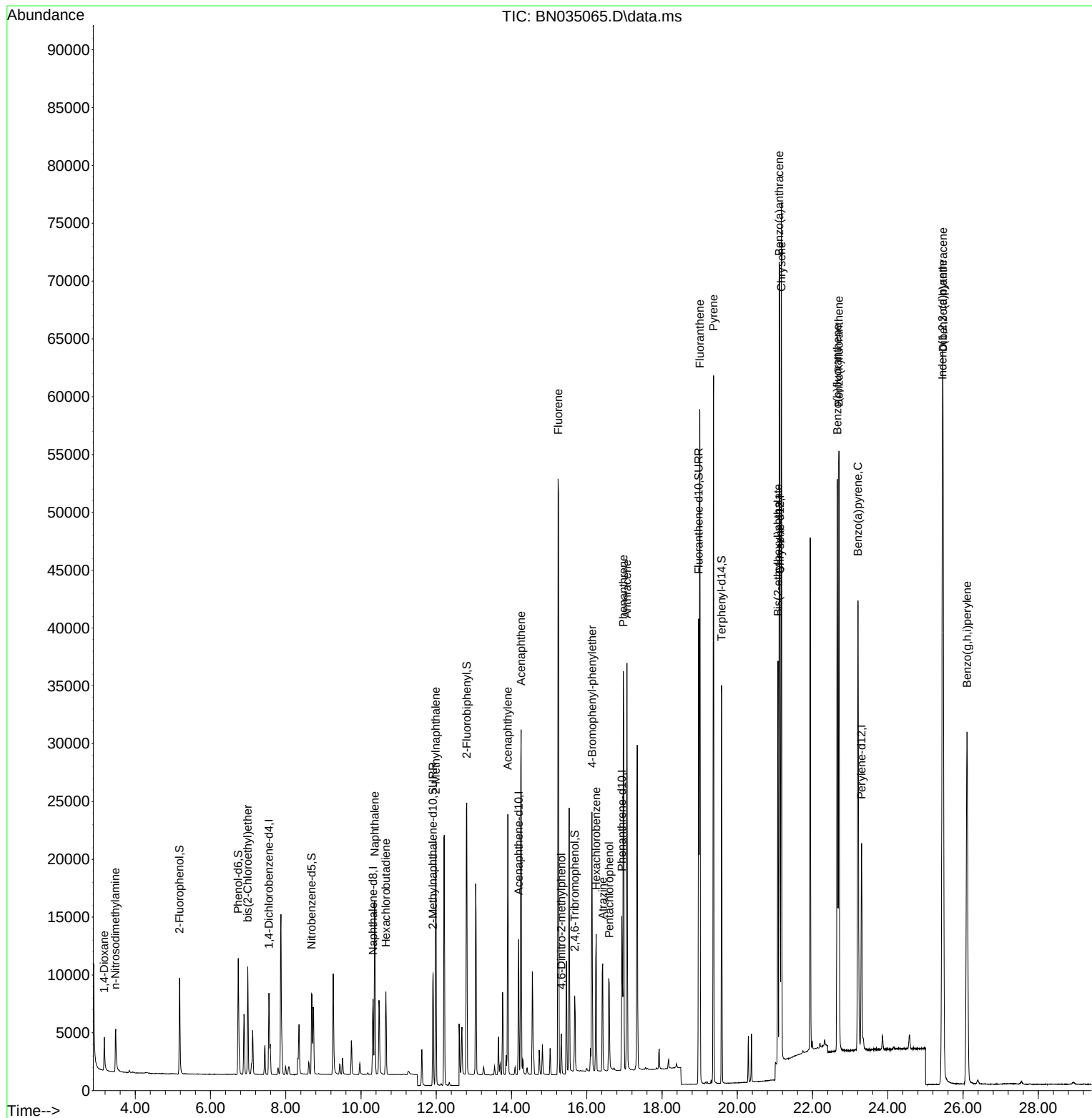
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	3429	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	8612	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	6454	0.400	ng	0.00
19) Phenanthrene-d10	16.933	188	17302	0.400	ng	# 0.00
29) Chrysene-d12	21.134	240	19278	0.400	ng	# 0.00
35) Perylene-d12	23.300	264	21751	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	7450	0.856	ng	0.00
5) Phenol-d6	6.737	99	9293	0.851	ng	0.00
8) Nitrobenzene-d5	8.685	82	6336	0.848	ng	-0.01
11) 2-Methylnaphthalene-d10	11.912	152	13119	0.855	ng	0.00
14) 2,4,6-Tribromophenol	15.679	330	3866	0.831	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	22399	0.855	ng	0.00
27) Fluoranthene-d10	18.973	212	44583	0.841	ng	0.00
31) Terphenyl-d14	19.582	244	34460	0.852	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	2545	0.817	ng	99
3) n-Nitrosodimethylamine	3.473	42	2466	0.853	ng	# 96
6) bis(2-Chloroethyl)ether	6.990	93	7043	0.860	ng	99
9) Naphthalene	10.362	128	19223	0.855	ng	98
10) Hexachlorobutadiene	10.661	225	5612	0.851	ng	# 100
12) 2-Methylnaphthalene	11.988	142	14179	0.855	ng	99
16) Acenaphthylene	13.902	152	23520	0.853	ng	99
17) Acenaphthene	14.254	154	15511	0.858	ng	99
18) Fluorene	15.238	166	22649	0.852	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	3013	0.837	ng	# 87
21) 4-Bromophenyl-phenylether	16.138	248	9403	0.853	ng	# 85
22) Hexachlorobenzene	16.250	284	9574	0.837	ng	99
23) Atrazine	16.424	200	8427	0.852	ng	# 92
24) Pentachlorophenol	16.597	266	4494	0.841	ng	98
25) Phenanthrene	16.970	178	38573	0.847	ng	99
26) Anthracene	17.069	178	35437	0.847	ng	100
28) Fluoranthene	19.006	202	53391	0.853	ng	100
30) Pyrene	19.368	202	54892	0.855	ng	100
32) Benzo(a)anthracene	21.116	228	56460	0.841	ng	98
33) Chrysene	21.169	228	57039	0.858	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	29628	0.848	ng	100
36) Indeno(1,2,3-cd)pyrene	25.452	276	75270	0.867	ng	100
37) Benzo(b)fluoranthene	22.657	252	62606	0.855	ng	97
38) Benzo(k)fluoranthene	22.701	252	61702	0.843	ng	96
39) Benzo(a)pyrene	23.206	252	54251	0.842	ng	# 95
40) Dibenzo(a,h)anthracene	25.466	278	59829	0.870	ng	99
41) Benzo(g,h,i)perylene	26.104	276	63167	0.864	ng	98

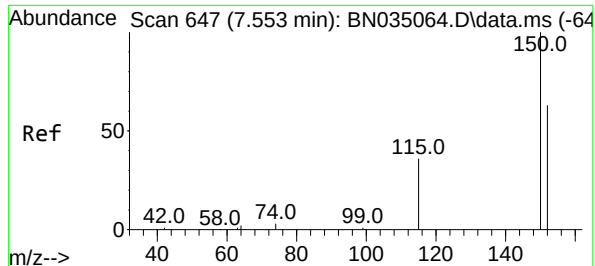
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035065.D
Acq On : 13 Nov 2024 14:28
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 13 16:44:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

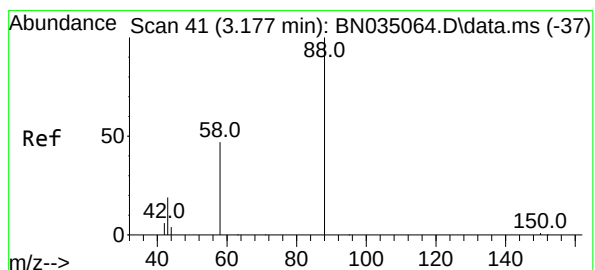
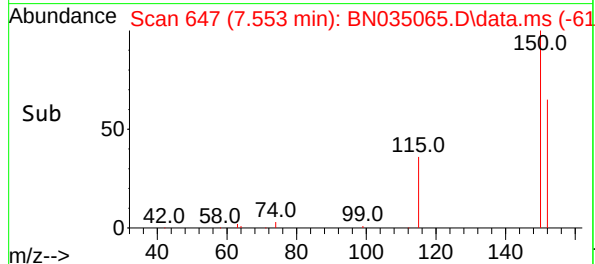
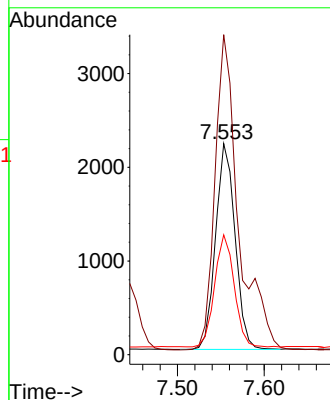
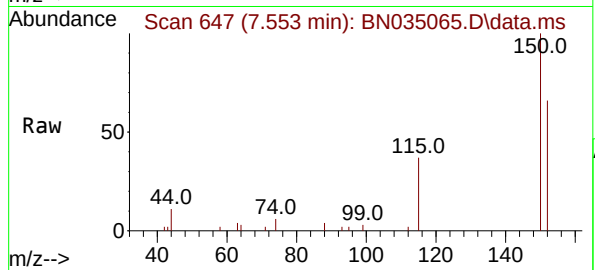




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

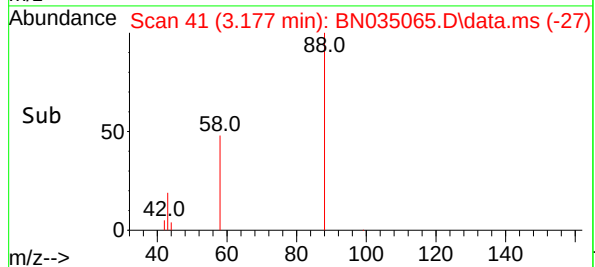
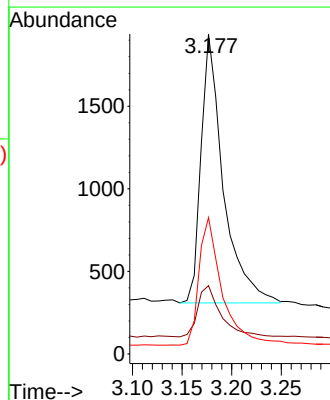
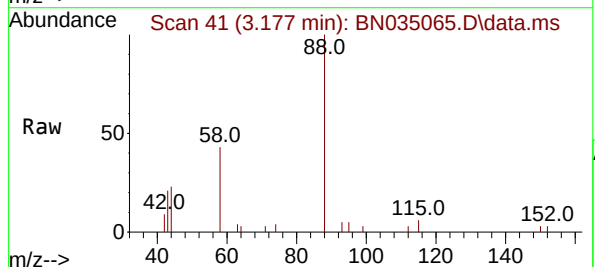
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

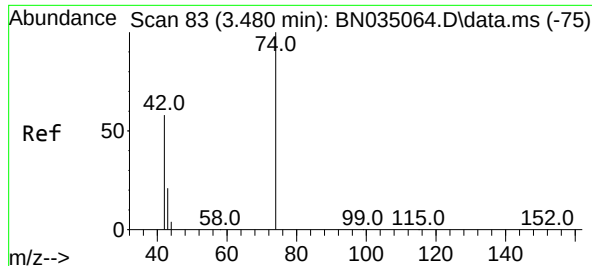
Tgt Ion:152 Resp: 3429
Ion Ratio Lower Upper
152 100
150 151.6 124.5 186.7
115 56.8 47.8 71.6



#2
1,4-Dioxane
Concen: 0.817 ng
RT: 3.177 min Scan# 41
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion: 88 Resp: 2545
Ion Ratio Lower Upper
88 100
43 19.8 16.9 25.3
58 49.3 39.0 58.4

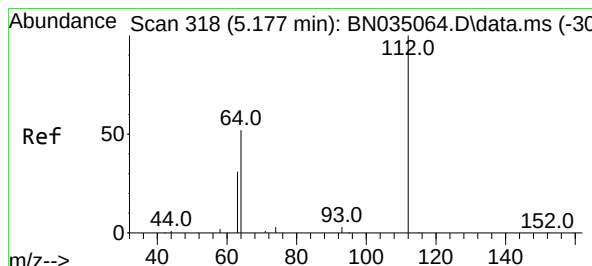
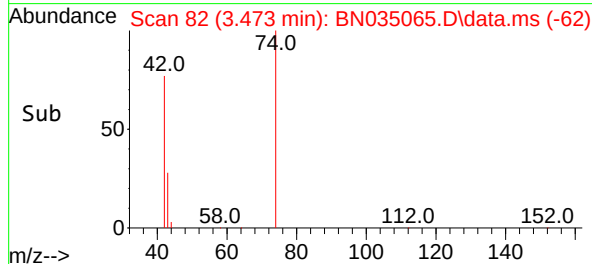
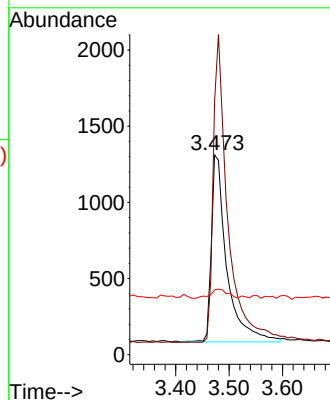
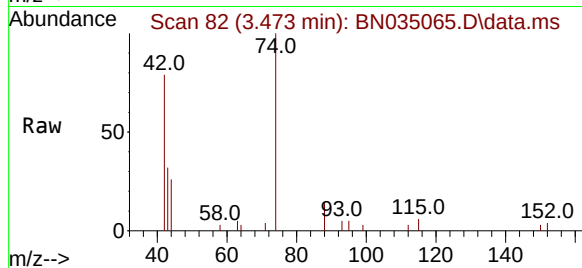




#3
n-Nitrosodimethylamine
Concen: 0.853 ng
RT: 3.473 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

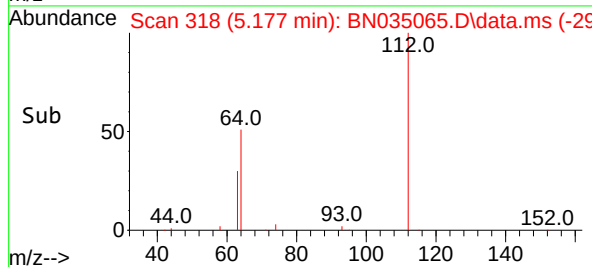
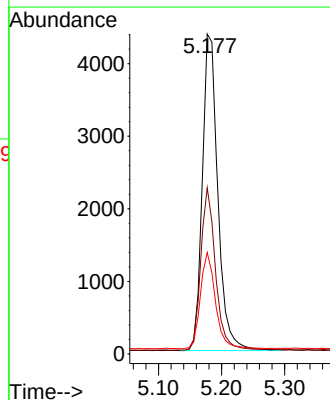
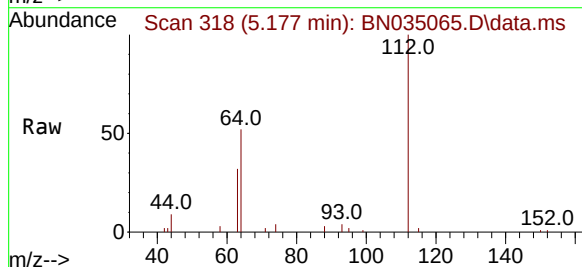
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

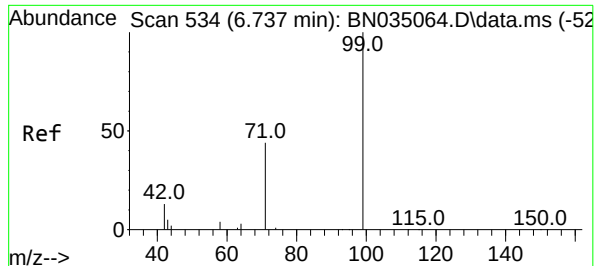
Tgt Ion: 42 Resp: 2466
Ion Ratio Lower Upper
42 100
74 155.8 120.8 181.2
44 5.4 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.856 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion: 112 Resp: 7450
Ion Ratio Lower Upper
112 100
64 49.1 39.7 59.5
63 29.6 23.0 34.4

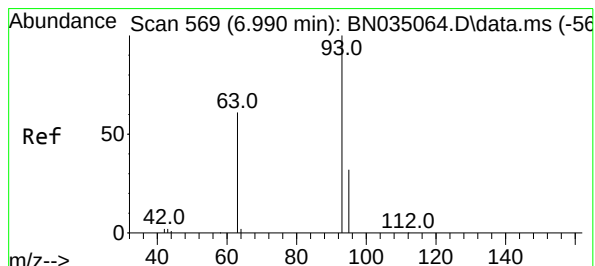
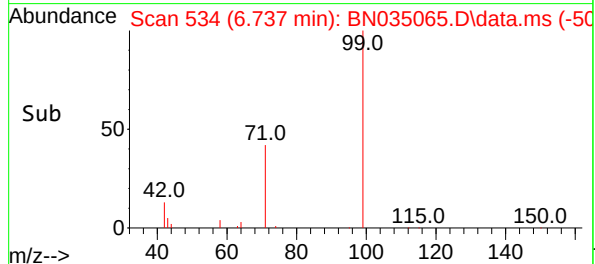
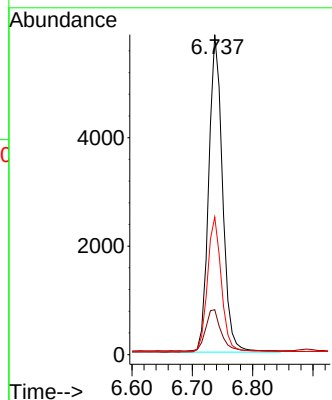
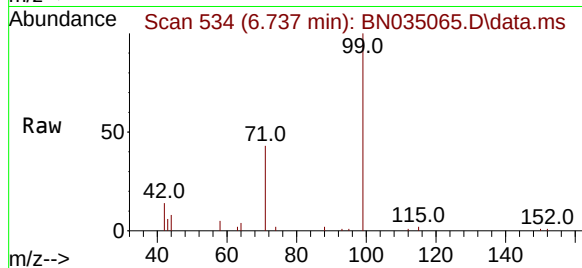




#5
Phenol-d6
Concen: 0.851 ng
RT: 6.737 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

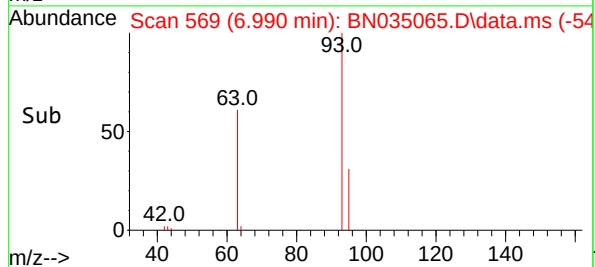
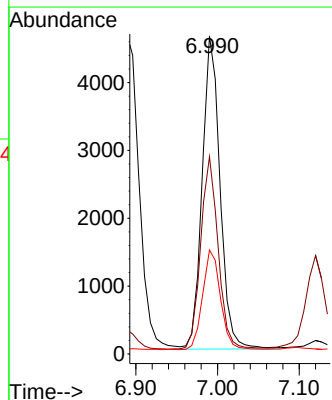
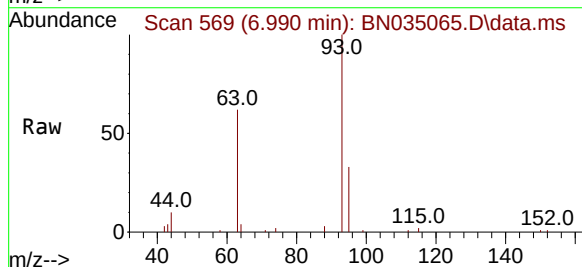
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

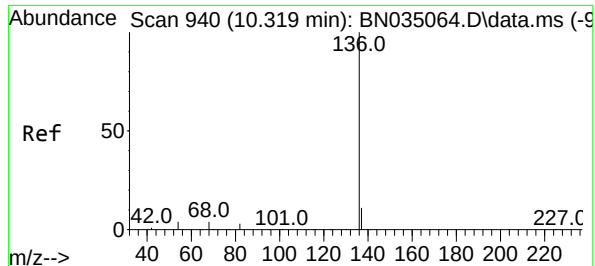
Tgt Ion: 99 Resp: 9293
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 42.9 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.860 ng
RT: 6.990 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion: 93 Resp: 7043
Ion Ratio Lower Upper
93 100
63 60.1 47.4 71.2
95 31.8 26.2 39.4

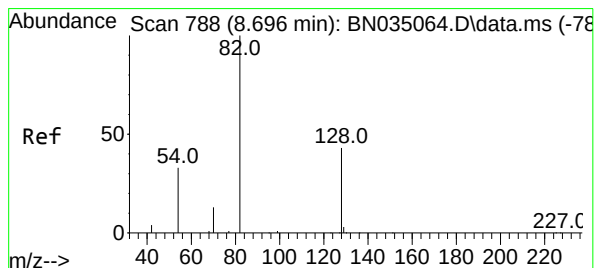
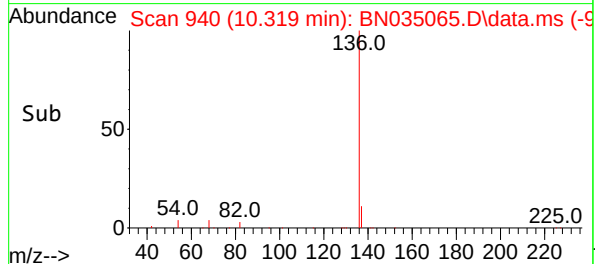
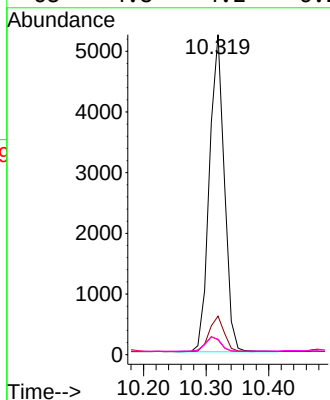
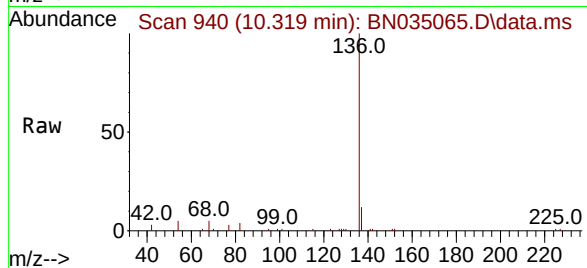




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

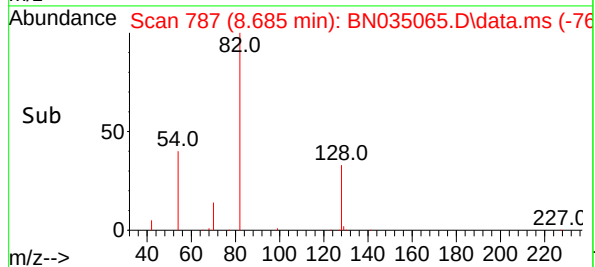
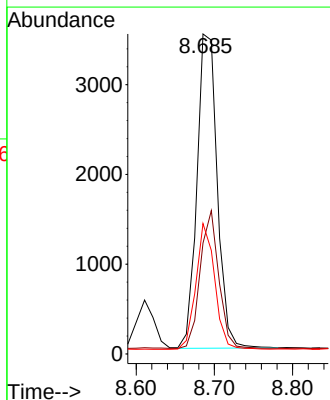
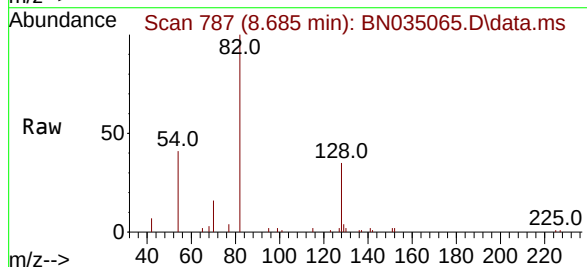
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

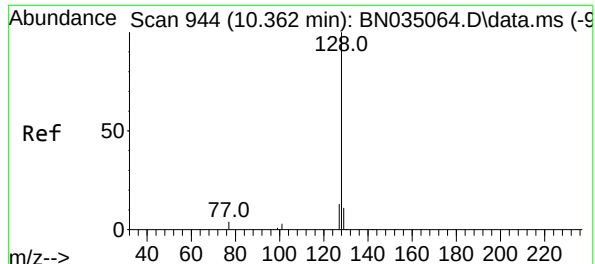
Tgt Ion:	136	Resp:	8612
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	4.6	4.0	6.0
68	4.8	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.848 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:	82	Resp:	6336
Ion	Ratio	Lower	Upper
82	100		
128	34.6	36.5	54.7#
54	40.8	28.7	43.1

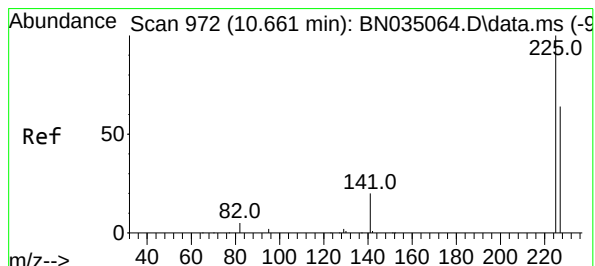
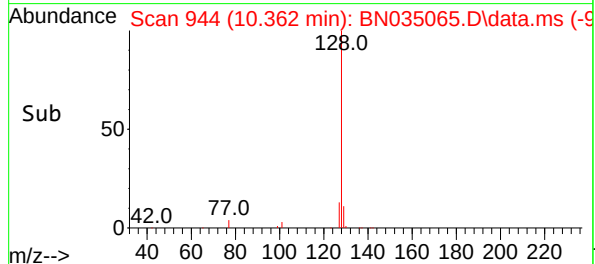
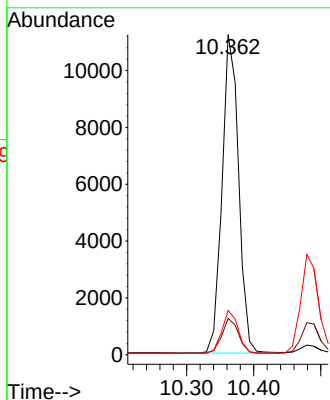
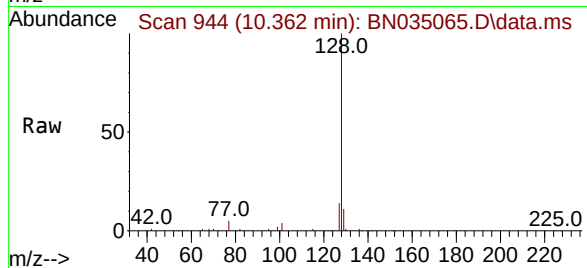




#9
Naphthalene
Concen: 0.855 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

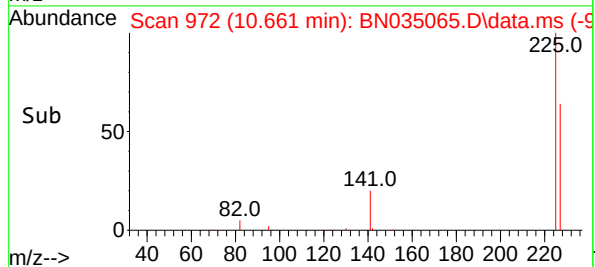
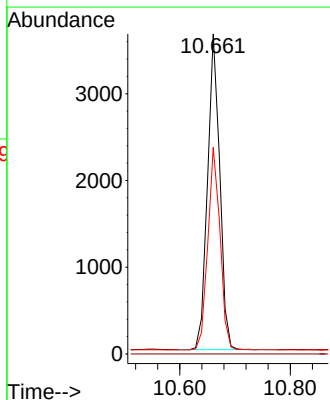
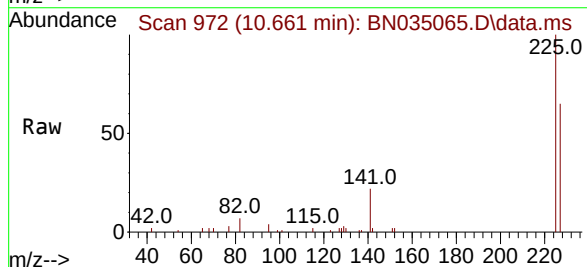
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

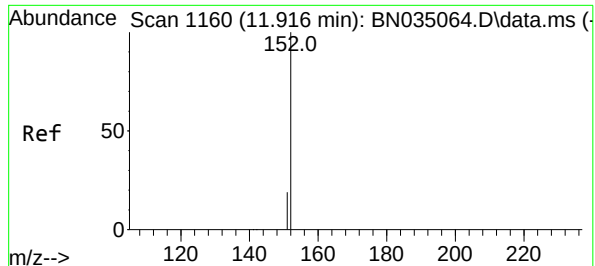
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.6	14.4
127	13.8	11.6	17.4



#10
Hexachlorobutadiene
Concen: 0.851 ng
RT: 10.661 min Scan# 972
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.5	51.5	77.3

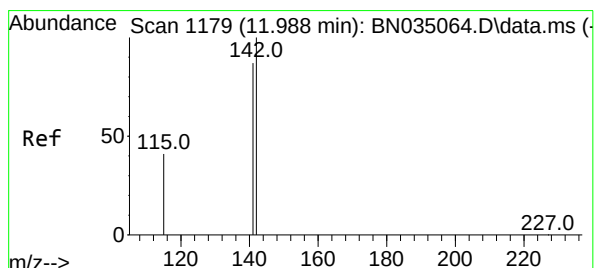
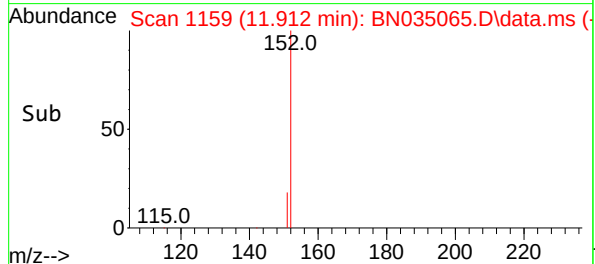
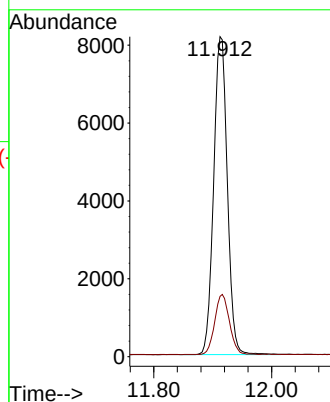
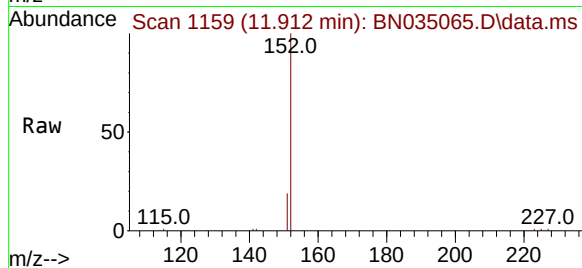




#11
2-Methylnaphthalene-d10
Concen: 0.855 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

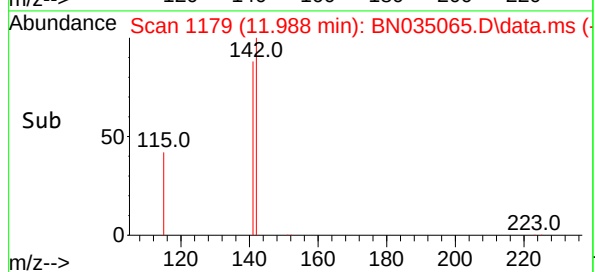
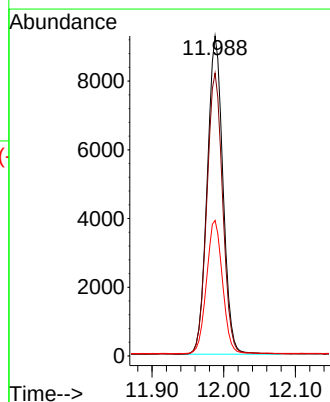
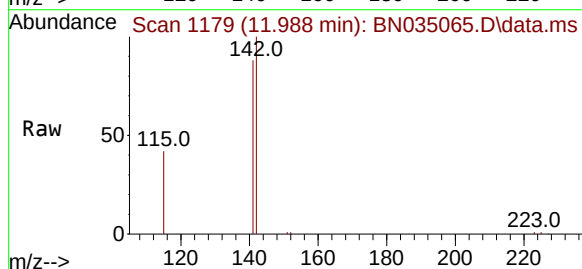
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

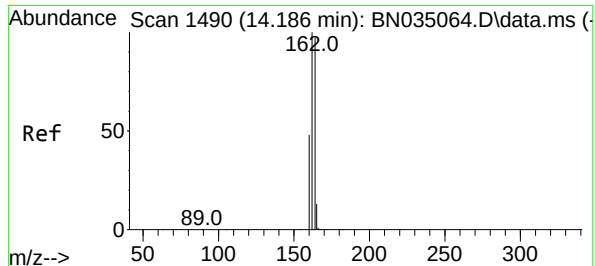
Tgt Ion:152 Resp: 13119
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.855 ng
RT: 11.988 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:142 Resp: 14179
Ion Ratio Lower Upper
142 100
141 88.4 70.1 105.1
115 42.4 34.4 51.6

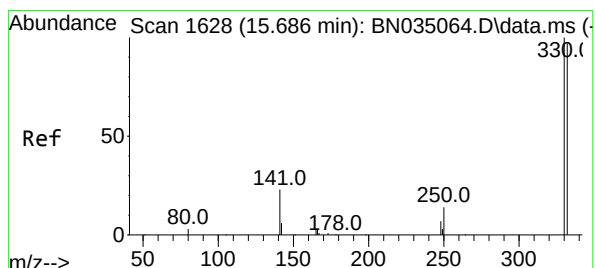
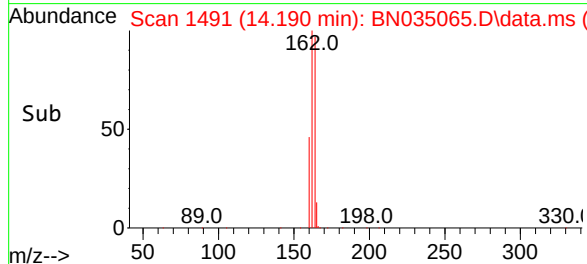
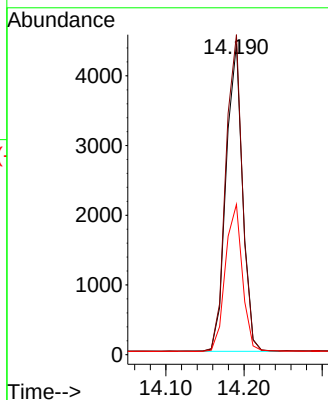
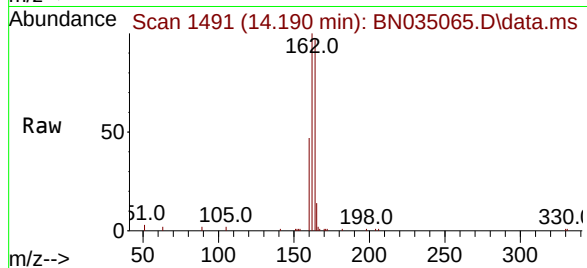




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1490
Delta R.T. 0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

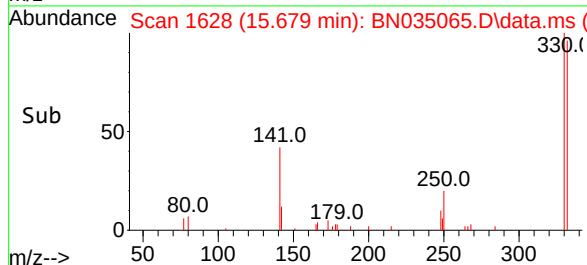
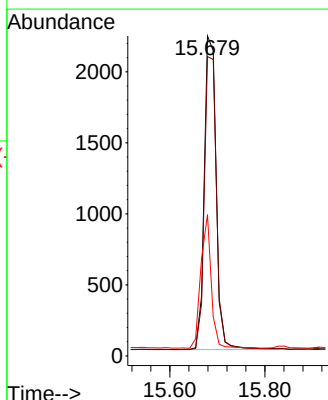
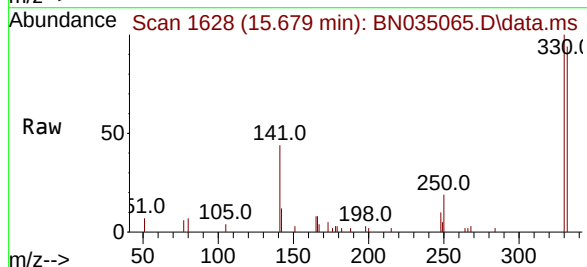
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

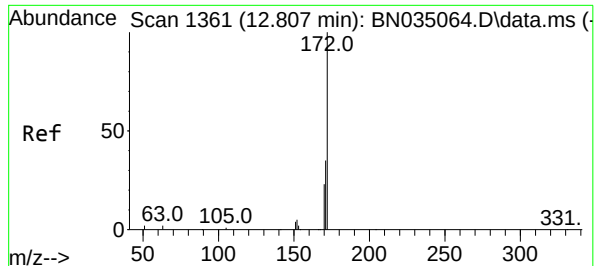
Tgt Ion:164 Resp: 6454
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.2
160 48.3 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.831 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:330 Resp: 3866
Ion Ratio Lower Upper
330 100
332 95.2 76.9 115.3
141 36.9 29.6 44.4

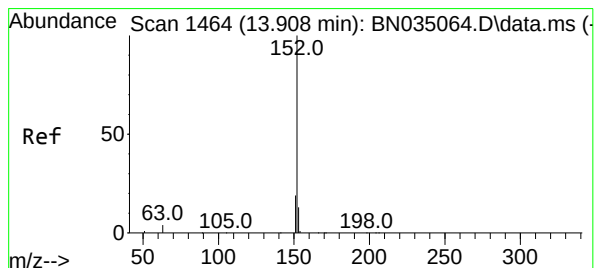
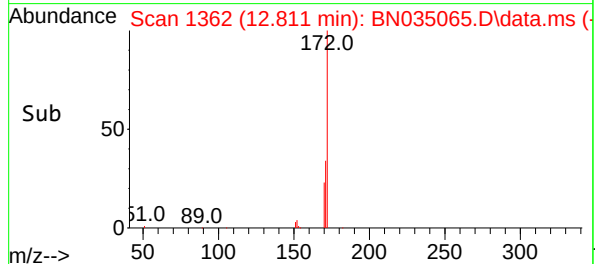
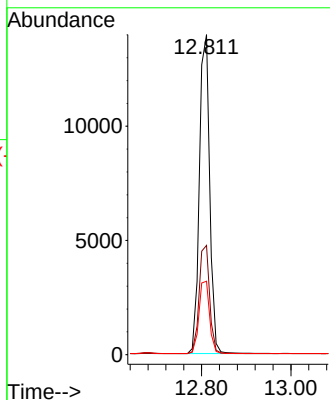
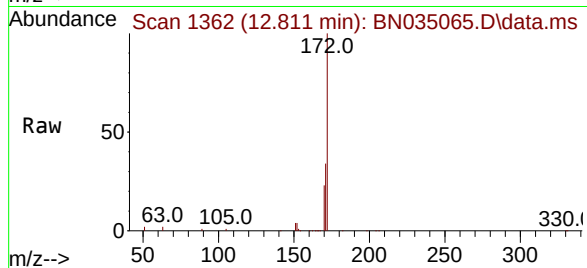




#15
2-Fluorobiphenyl
Concen: 0.855 ng
RT: 12.811 min Scan# 1362
Delta R.T. 0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

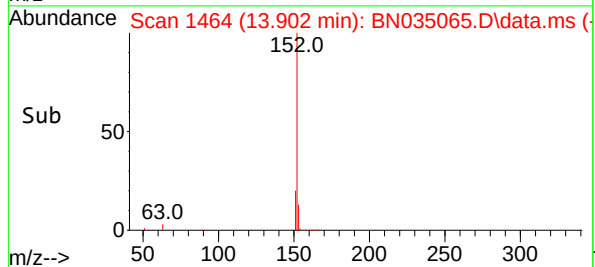
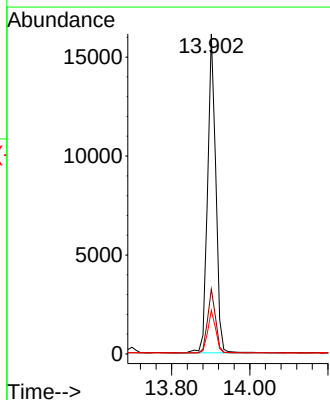
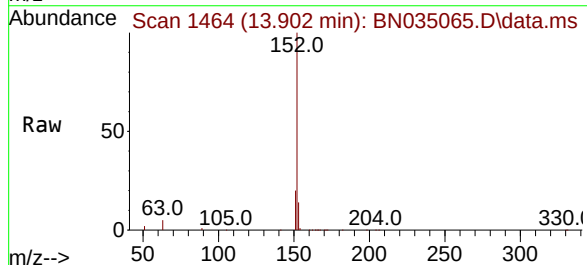
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

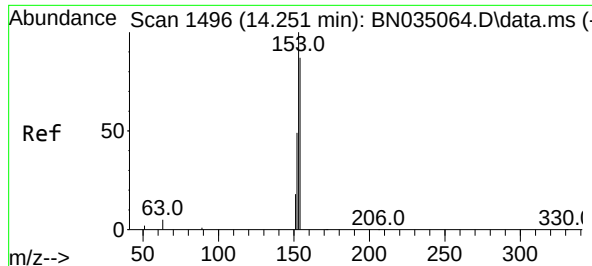
Tgt Ion:172 Resp: 22399
Ion Ratio Lower Upper
172 100
171 34.1 28.2 42.4
170 22.9 19.0 28.6



#16
Acenaphthylene
Concen: 0.853 ng
RT: 13.902 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:152 Resp: 23520
Ion Ratio Lower Upper
152 100
151 19.6 15.8 23.8
153 13.1 10.2 15.4

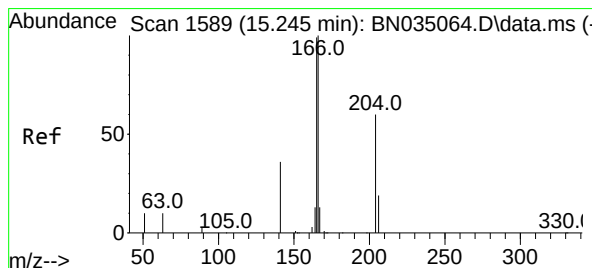
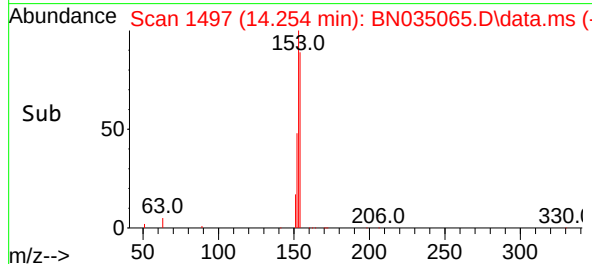
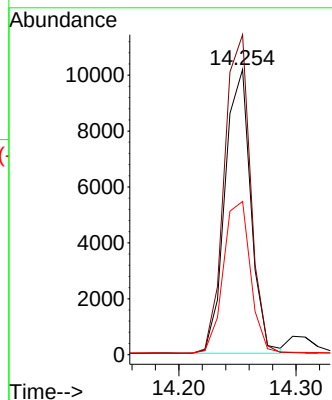
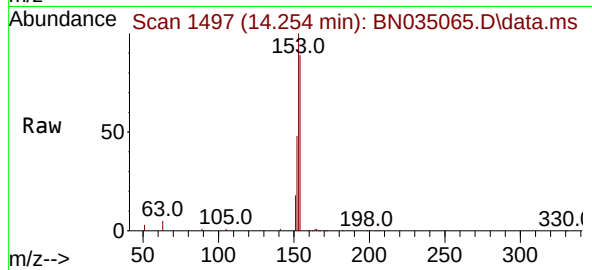




#17
Acenaphthene
Concen: 0.858 ng
RT: 14.254 min Scan# 1496
Delta R.T. 0.004 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

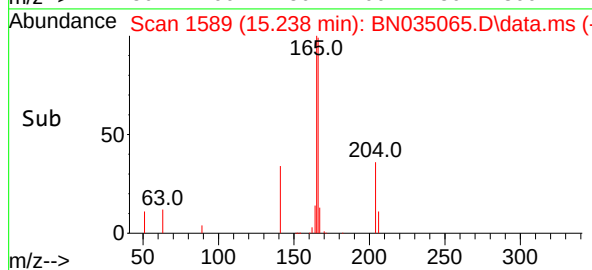
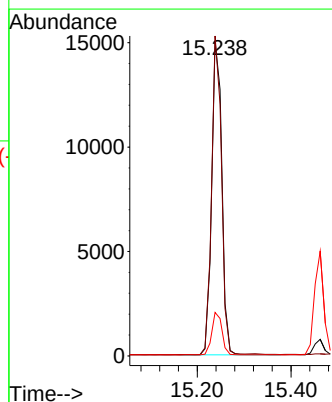
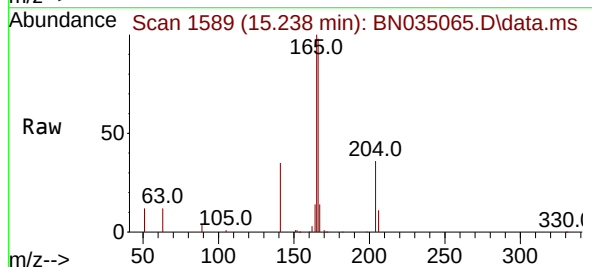
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

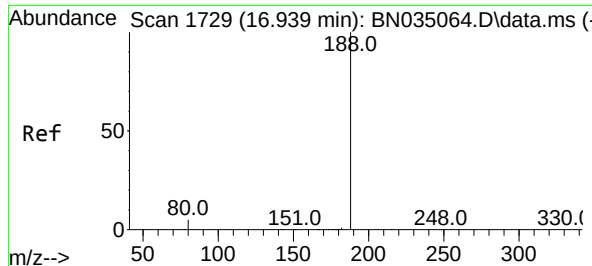
Tgt Ion:154 Resp: 15511
Ion Ratio Lower Upper
154 100
153 114.0 91.6 137.4
152 56.6 45.8 68.6



#18
Fluorene
Concen: 0.852 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:166 Resp: 22649
Ion Ratio Lower Upper
166 100
165 98.3 79.1 118.7
167 13.6 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.933 min Scan# 1729

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

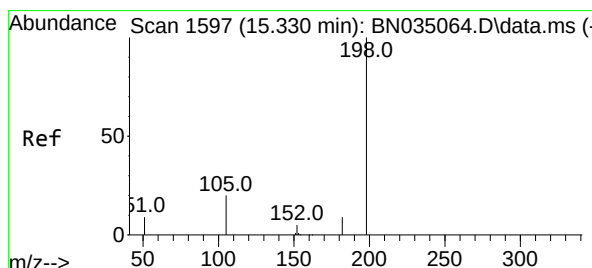
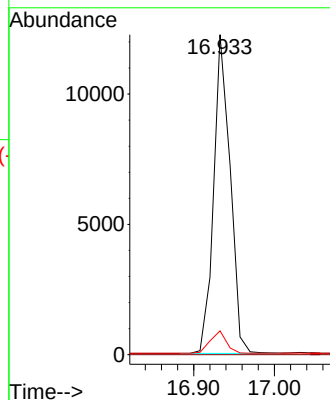
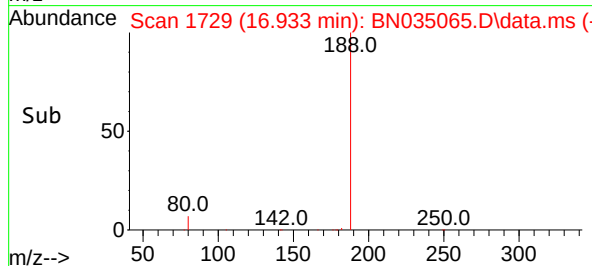
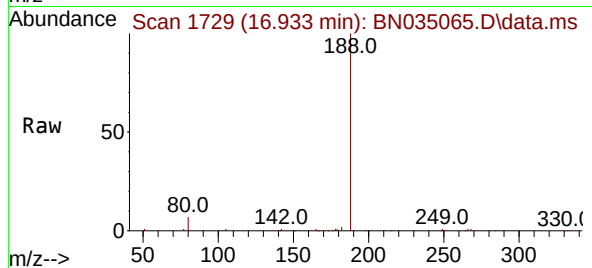
Tgt Ion:188 Resp: 17302

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.5 4.3 6.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.837 ng

RT: 15.323 min Scan# 1597

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

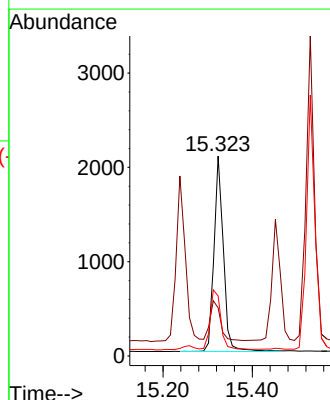
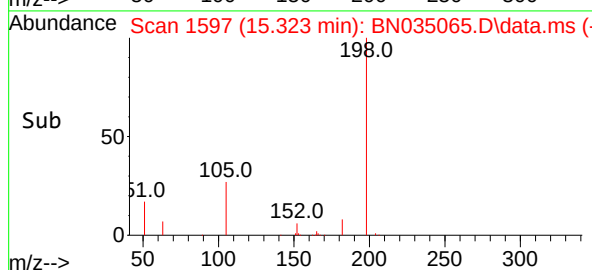
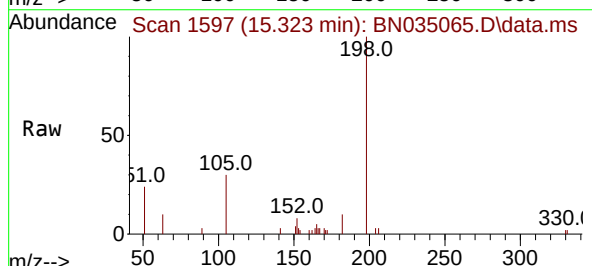
Tgt Ion:198 Resp: 3013

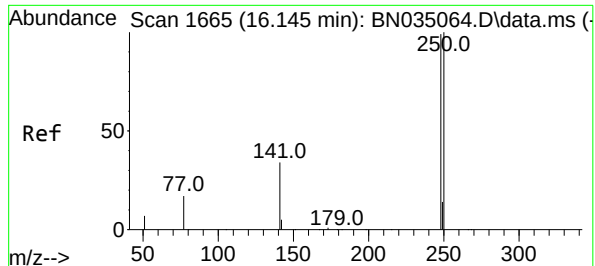
Ion Ratio Lower Upper

198 100

51 24.1 29.9 44.9#

105 30.0 23.7 35.5





#21

4-Bromophenyl-phenylether

Concen: 0.853 ng

RT: 16.138 min Scan# 1665

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

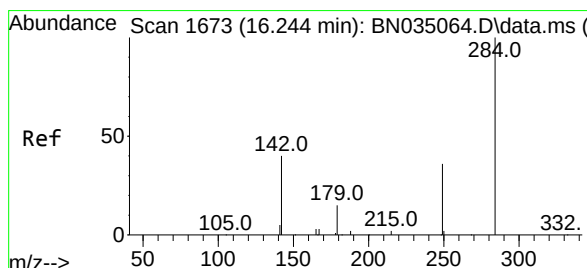
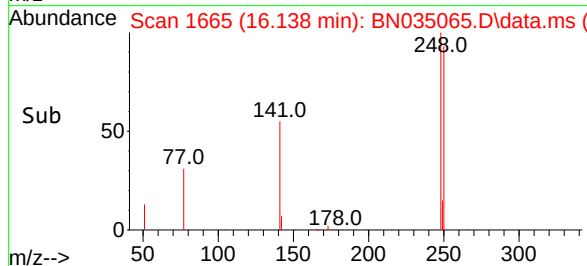
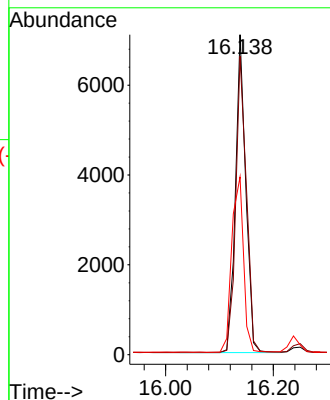
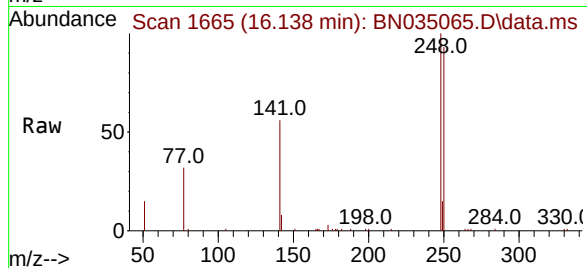
Tgt Ion:248 Resp: 9403

Ion Ratio Lower Upper

248 100

250 93.3 81.2 121.8

141 55.6 29.1 43.7#



#22

Hexachlorobenzene

Concen: 0.837 ng

RT: 16.250 min Scan# 1674

Delta R.T. 0.006 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

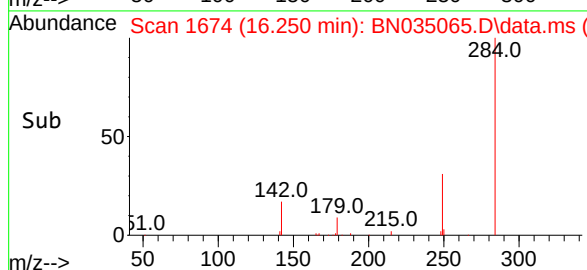
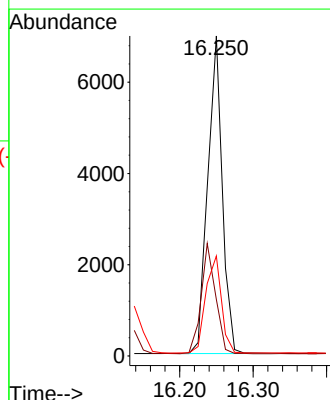
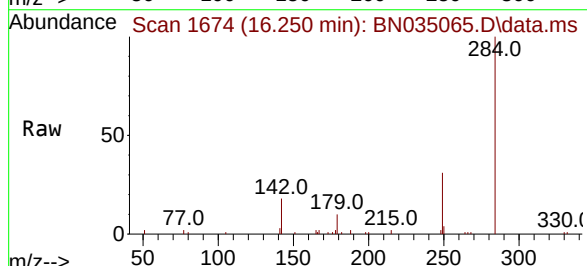
Tgt Ion:284 Resp: 9574

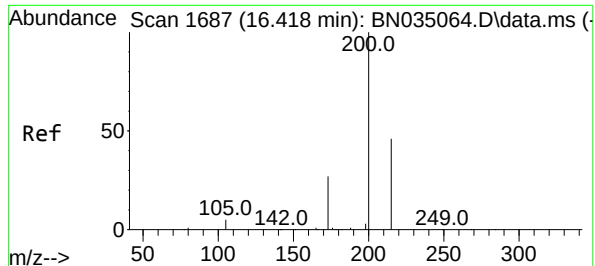
Ion Ratio Lower Upper

284 100

142 34.4 28.2 42.4

249 32.9 26.2 39.2





#23

Atrazine

Concen: 0.852 ng

RT: 16.424 min Scan# 1

Delta R.T. 0.006 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

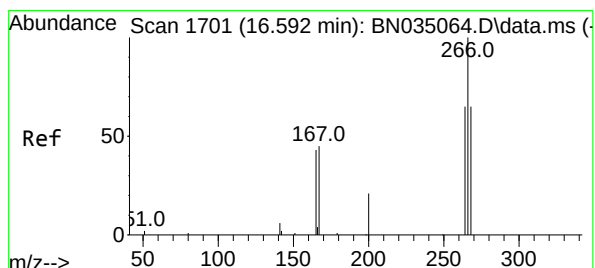
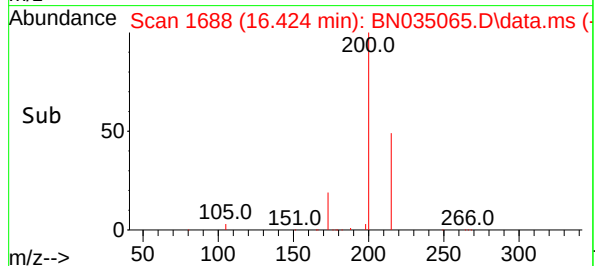
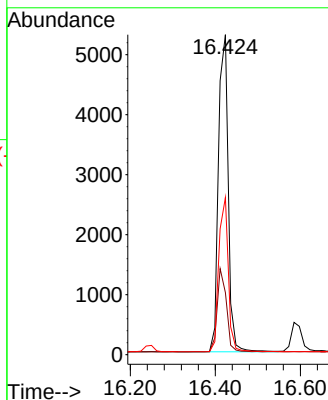
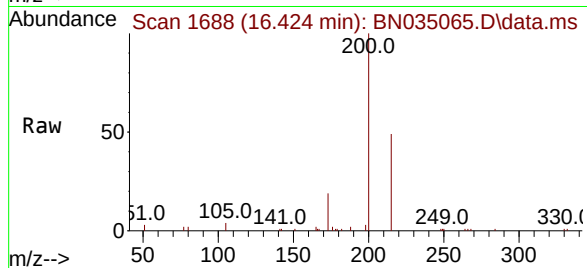
Tgt Ion:200 Resp: 8427

Ion Ratio Lower Upper

200 100

173 19.4 22.6 33.8#

215 49.1 37.8 56.6



#24

Pentachlorophenol

Concen: 0.841 ng

RT: 16.597 min Scan# 1702

Delta R.T. 0.006 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

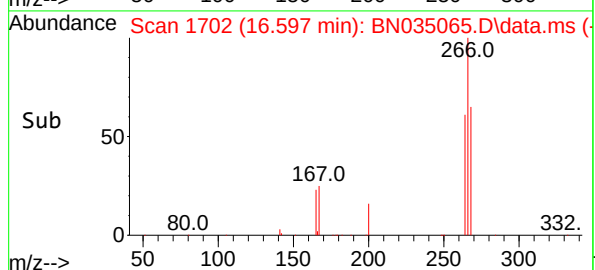
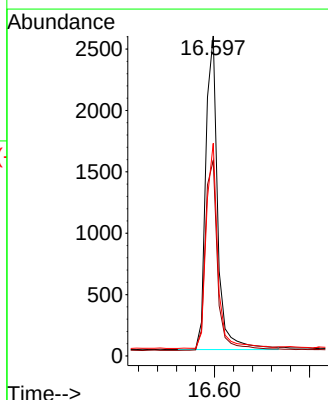
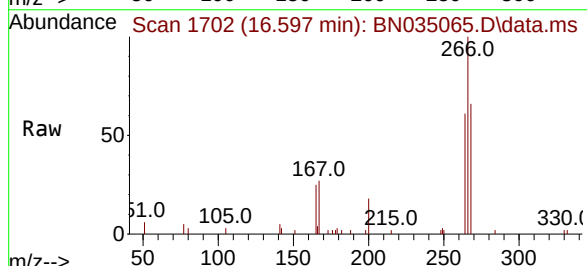
Tgt Ion:266 Resp: 4494

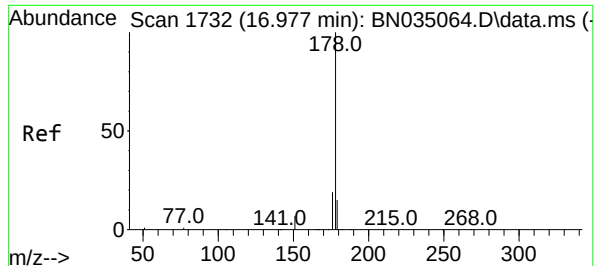
Ion Ratio Lower Upper

266 100

264 62.3 49.4 74.0

268 63.1 52.6 79.0





#25

Phenanthrene

Concen: 0.847 ng

RT: 16.970 min Scan# 1732

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

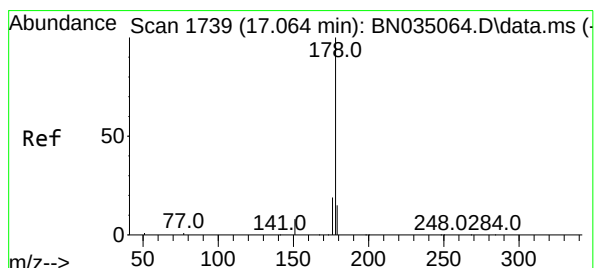
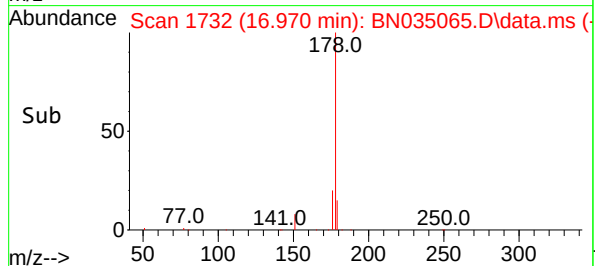
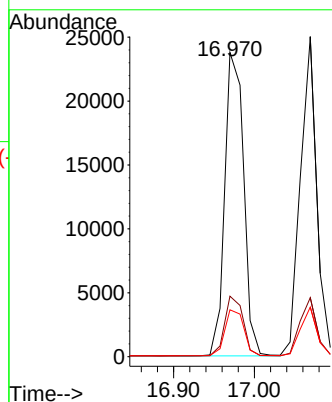
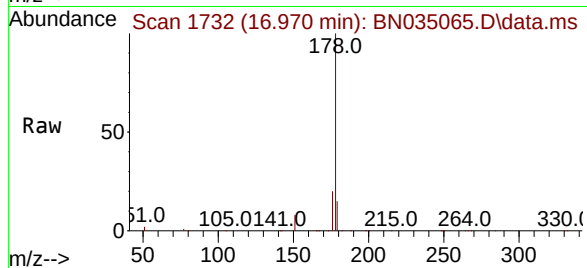
Tgt Ion:178 Resp: 38573

Ion Ratio Lower Upper

178 100

176 19.3 15.2 22.8

179 15.3 12.6 18.8



#26

Anthracene

Concen: 0.847 ng

RT: 17.069 min Scan# 1740

Delta R.T. 0.006 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

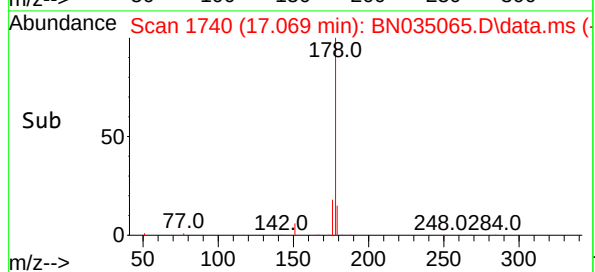
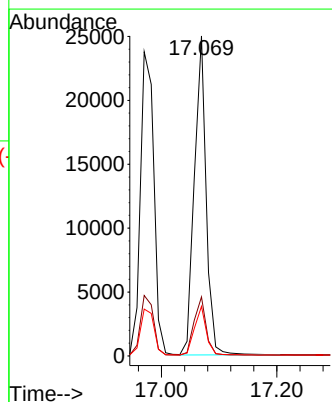
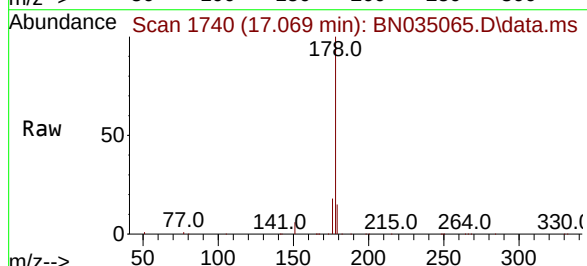
Tgt Ion:178 Resp: 35437

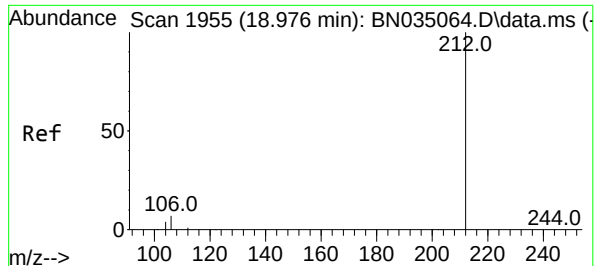
Ion Ratio Lower Upper

178 100

176 18.6 14.6 22.0

179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.841 ng

RT: 18.973 min Scan# 1955

Delta R.T. -0.002 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

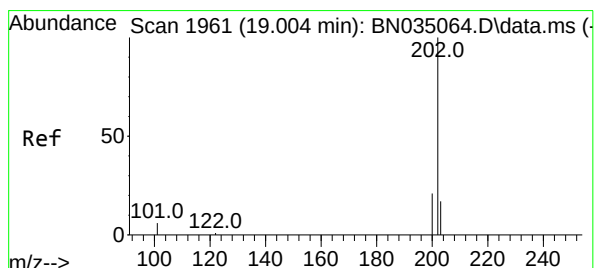
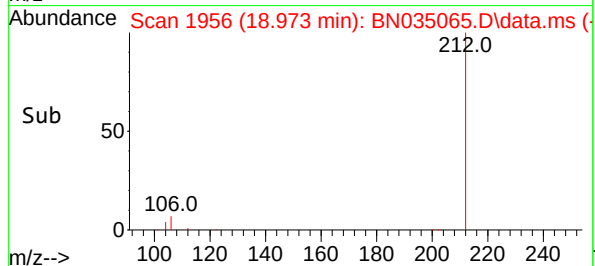
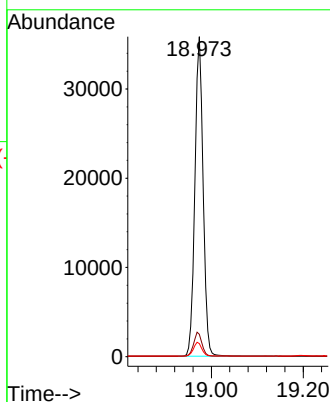
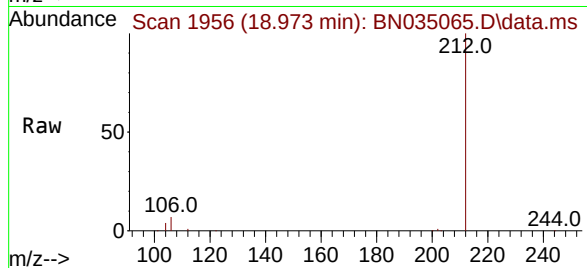
Tgt Ion:212 Resp: 44583

Ion Ratio Lower Upper

212 100

106 7.5 6.0 9.0

104 4.4 3.5 5.3



#28

Fluoranthene

Concen: 0.853 ng

RT: 19.006 min Scan# 1963

Delta R.T. 0.002 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

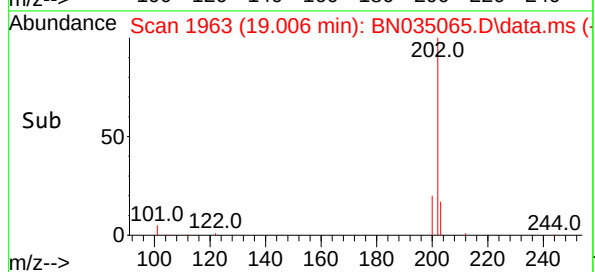
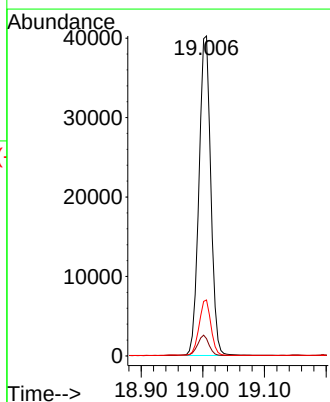
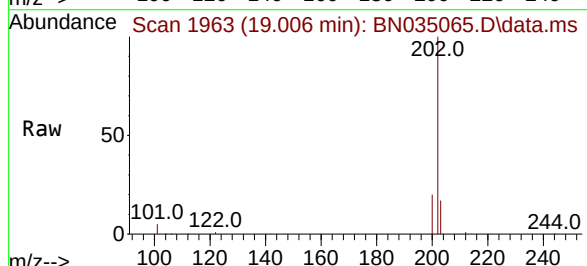
Tgt Ion:202 Resp: 53391

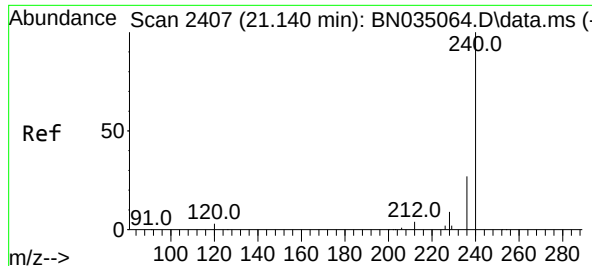
Ion Ratio Lower Upper

202 100

101 6.3 5.2 7.8

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.134 min Scan# 2408

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

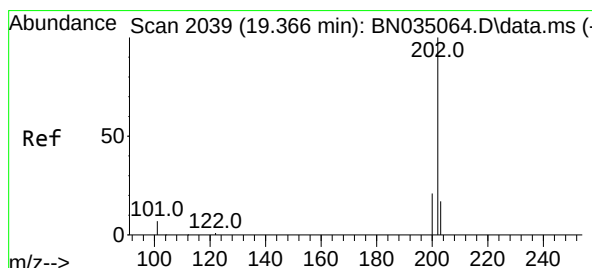
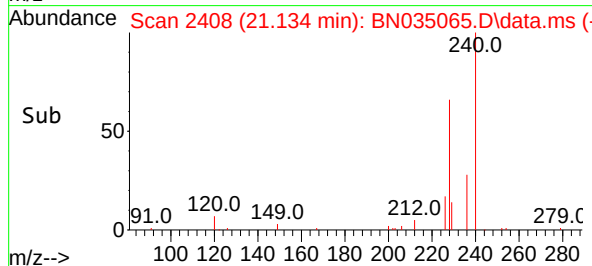
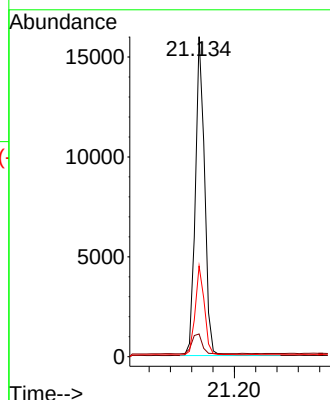
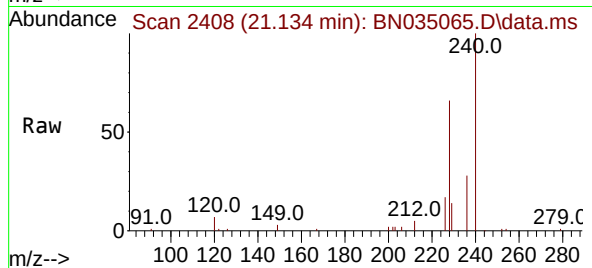
Tgt Ion:240 Resp: 19278

Ion Ratio Lower Upper

240 100

120 7.1 3.8 5.6#

236 28.4 22.2 33.2



#30

Pyrene

Concen: 0.855 ng

RT: 19.368 min Scan# 2041

Delta R.T. 0.002 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

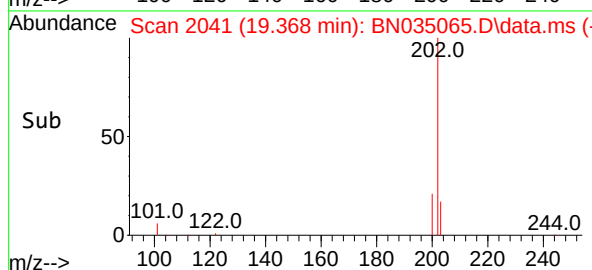
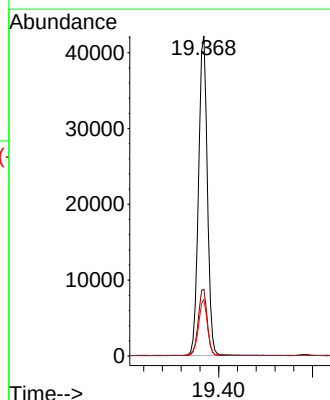
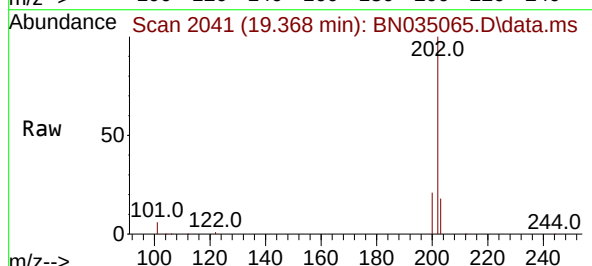
Tgt Ion:202 Resp: 54892

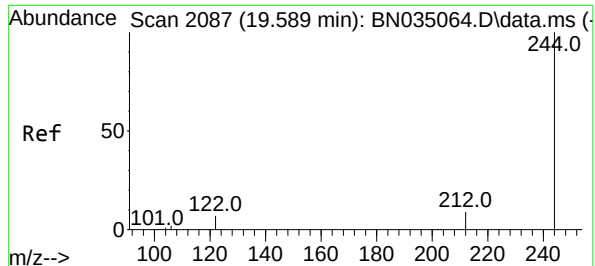
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.8 14.2 21.4

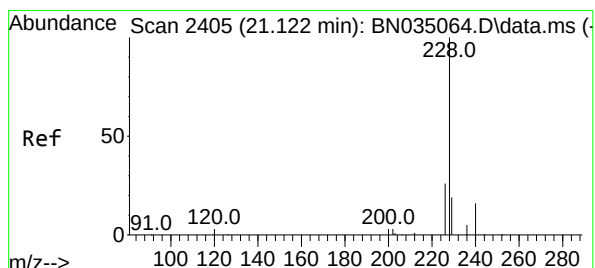
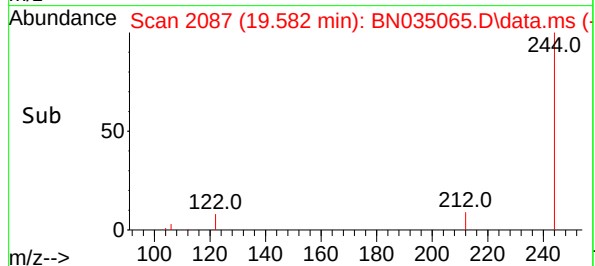
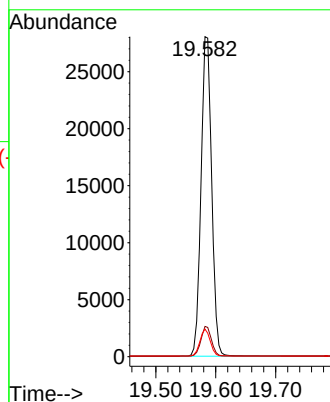
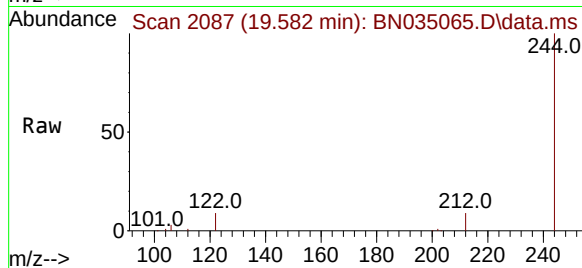




#31
Terphenyl-d14
Concen: 0.852 ng
RT: 19.582 min Scan# 2087
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

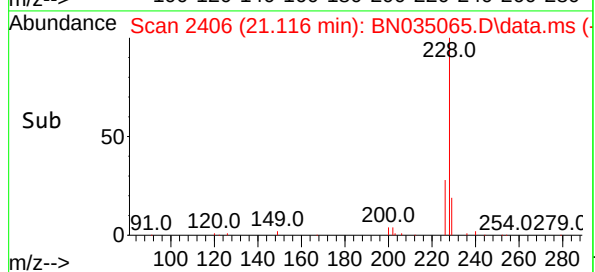
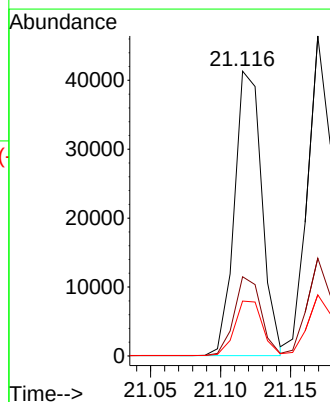
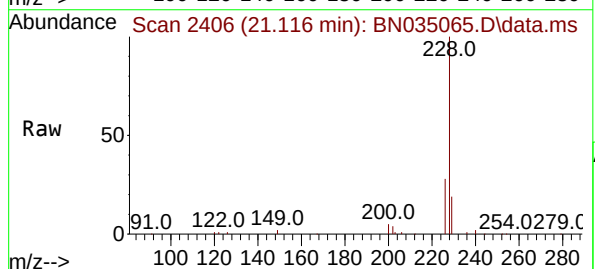
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

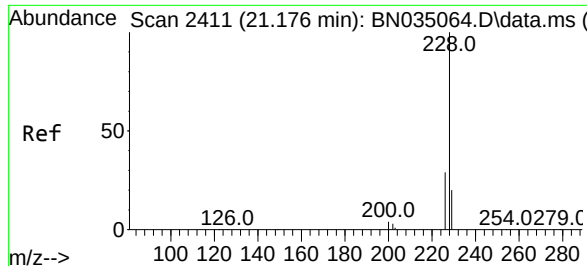
Tgt Ion:244 Resp: 34460
Ion Ratio Lower Upper
244 100
212 9.5 7.6 11.4
122 8.6 6.1 9.1



#32
Benzo(a)anthracene
Concen: 0.841 ng
RT: 21.116 min Scan# 2406
Delta R.T. -0.007 min
Lab File: BN035065.D
Acq: 13 Nov 2024 14:28

Tgt Ion:228 Resp: 56460
Ion Ratio Lower Upper
228 100
226 27.8 21.4 32.0
229 19.3 15.7 23.5





#33

Chrysene

Concen: 0.858 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

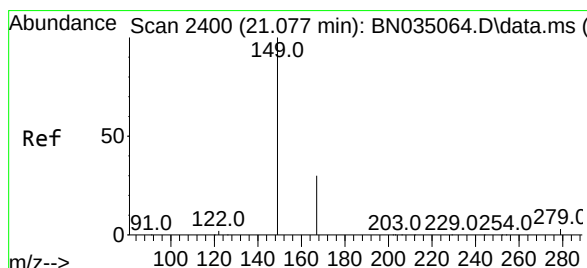
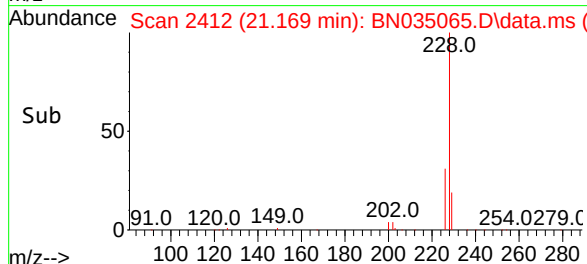
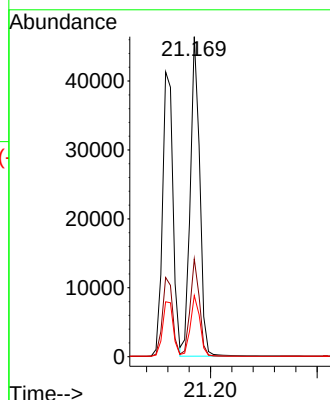
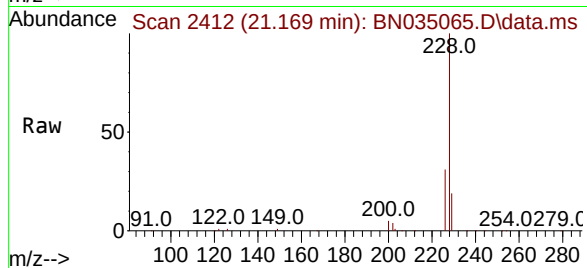
Tgt Ion:228 Resp: 57039

Ion Ratio Lower Upper

228 100

226 30.5 23.7 35.5

229 19.1 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.848 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

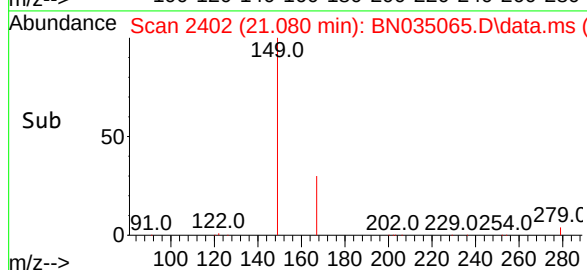
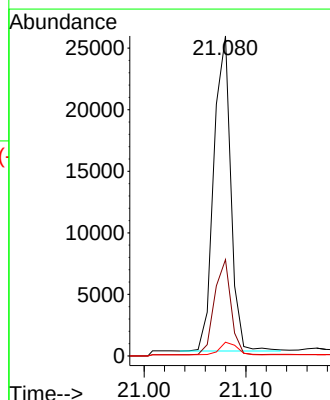
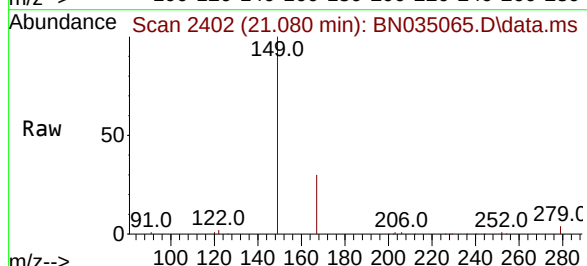
Tgt Ion:149 Resp: 29628

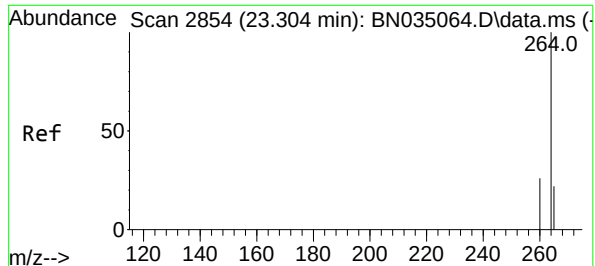
Ion Ratio Lower Upper

149 100

167 29.1 23.2 34.8

279 4.0 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.300 min Scan# 21

Delta R.T. -0.004 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

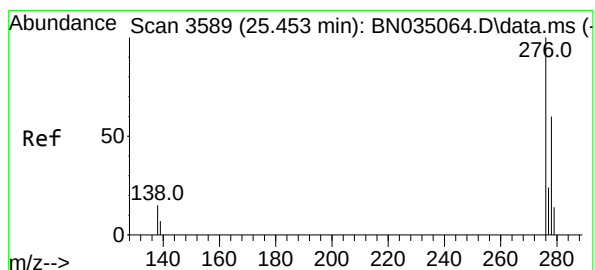
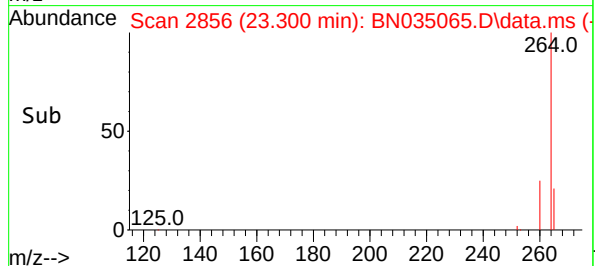
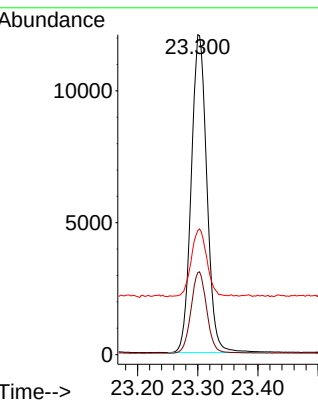
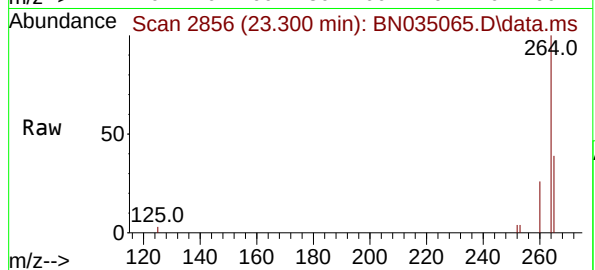
Tgt Ion:264 Resp: 21751

Ion Ratio Lower Upper

264 100

260 25.6 20.9 31.3

265 38.8 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.867 ng

RT: 25.452 min Scan# 3592

Delta R.T. -0.001 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

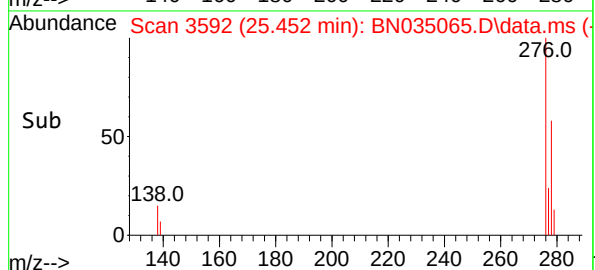
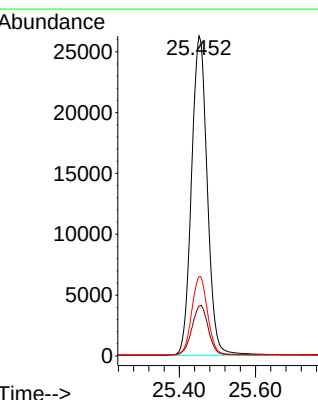
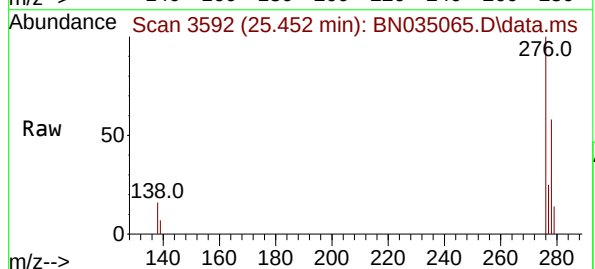
Tgt Ion:276 Resp: 75270

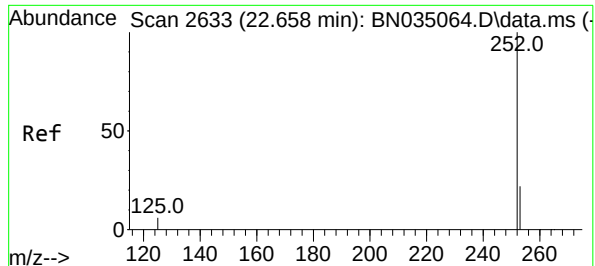
Ion Ratio Lower Upper

276 100

138 16.2 13.0 19.4

277 24.7 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.855 ng

RT: 22.657 min Scan# 2636

Delta R.T. -0.001 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

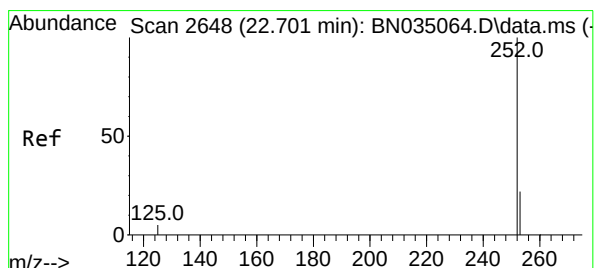
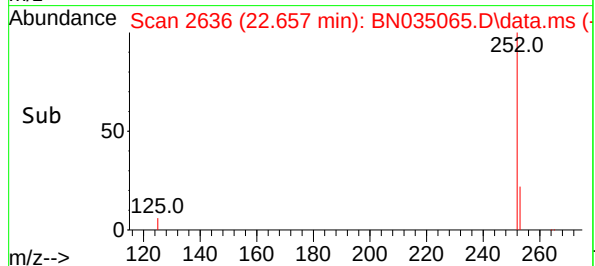
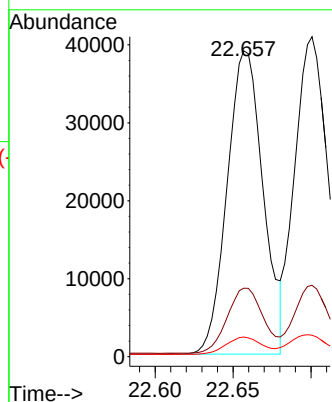
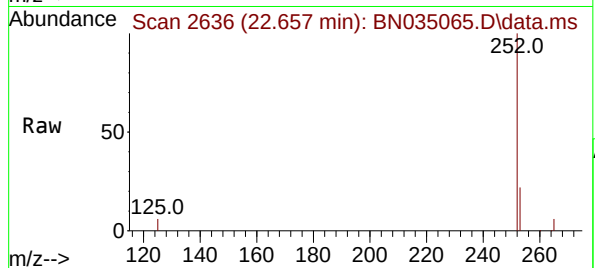
Tgt Ion:252 Resp: 62606

Ion Ratio Lower Upper

252 100

253 22.4 19.3 28.9

125 6.5 6.2 9.2



#38

Benzo(k)fluoranthene

Concen: 0.843 ng

RT: 22.701 min Scan# 2651

Delta R.T. -0.001 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

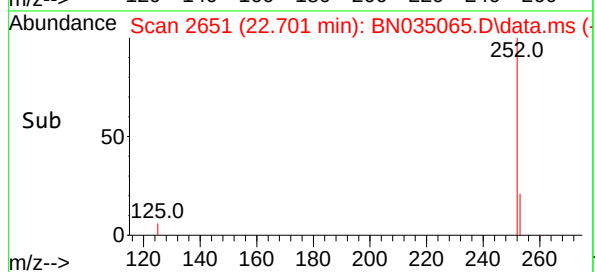
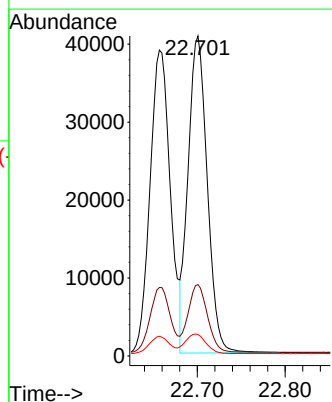
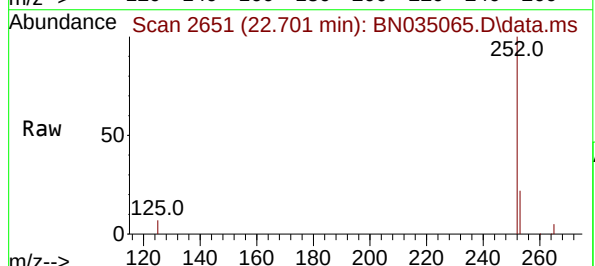
Tgt Ion:252 Resp: 61702

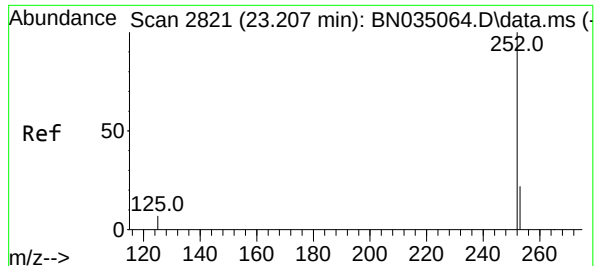
Ion Ratio Lower Upper

252 100

253 22.3 19.5 29.3

125 6.7 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.842 ng

RT: 23.206 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

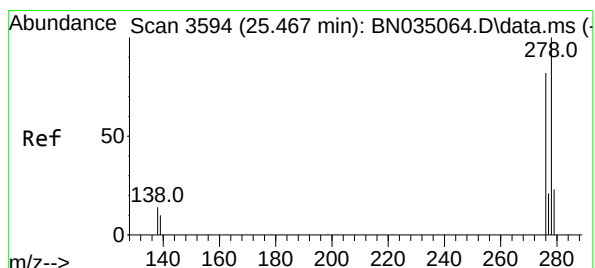
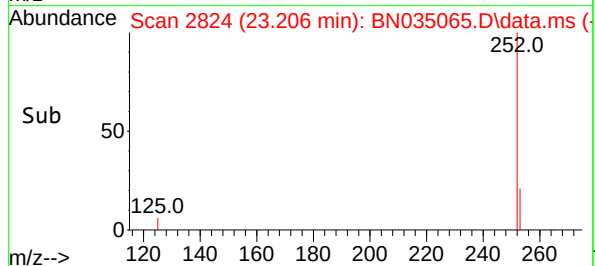
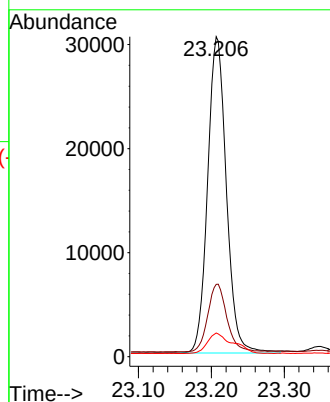
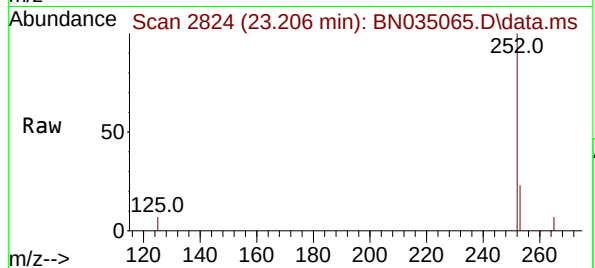
Tgt Ion:252 Resp: 54251

Ion Ratio Lower Upper

252 100

253 22.6 20.1 30.1

125 7.4 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.870 ng

RT: 25.466 min Scan# 3597

Delta R.T. -0.001 min

Lab File: BN035065.D

Acq: 13 Nov 2024 14:28

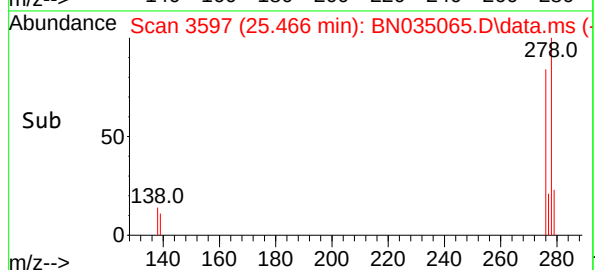
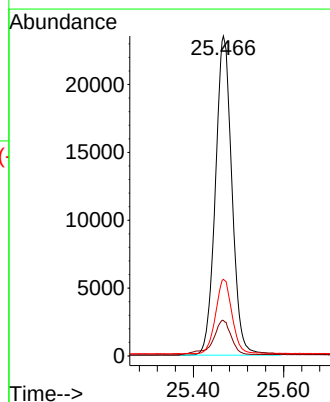
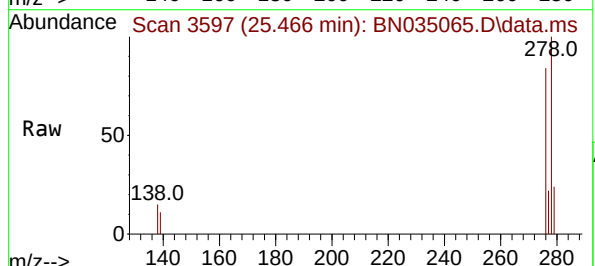
Tgt Ion:278 Resp: 59829

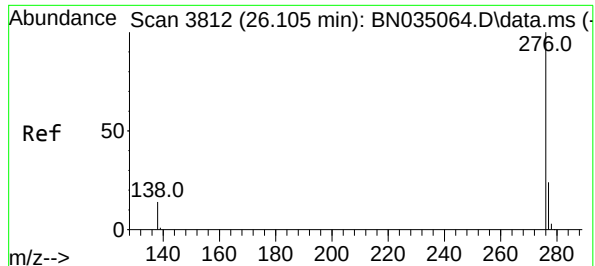
Ion Ratio Lower Upper

278 100

139 11.1 9.3 13.9

279 24.0 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.864 ng

RT: 26.104 min Scan# 3812

Delta R.T. -0.001 min

Lab File: BN035065.D

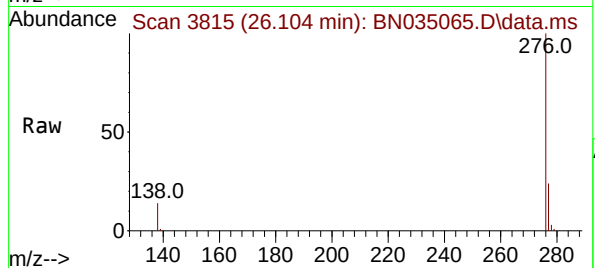
Acq: 13 Nov 2024 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



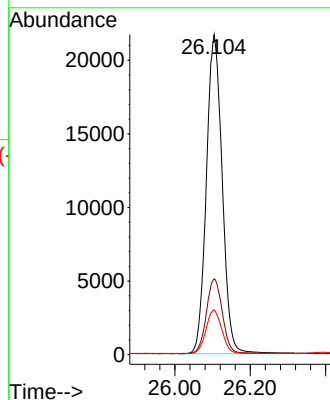
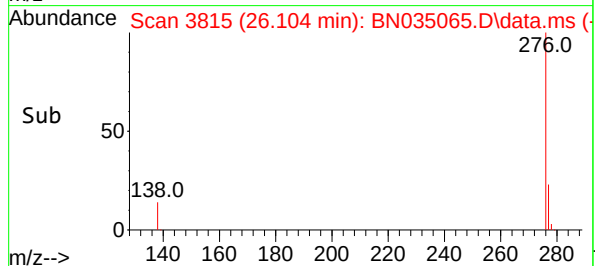
Tgt Ion:276 Resp: 63167

Ion Ratio Lower Upper

276 100

277 23.7 19.9 29.9

138 14.0 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035066.D
 Acq On : 13 Nov 2024 15:04
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 16:44:39 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 16:42:01 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2280	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	5826	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	4517	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	12068	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	13823	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	15060	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	9427	1.629	ng	0.00
5) Phenol-d6	6.737	99	12023	1.657	ng	0.00
8) Nitrobenzene-d5	8.696	82	8306	1.643	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	17545	1.690	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	5402	1.659	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	30472	1.661	ng	0.00
27) Fluoranthene-d10	18.973	212	61972	1.676	ng	0.00
31) Terphenyl-d14	19.587	244	47914	1.652	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.169	88	3351	1.618	ng	98
3) n-Nitrosodimethylamine	3.465	42	3168	1.647	ng	# 97
6) bis(2-Chloroethyl)ether	6.990	93	9071	1.665	ng	99
9) Naphthalene	10.362	128	25283	1.662	ng	98
10) Hexachlorobutadiene	10.660	225	7338	1.646	ng	# 99
12) 2-Methylnaphthalene	11.988	142	18997	1.693	ng	99
16) Acenaphthylene	13.901	152	32064	1.661	ng	99
17) Acenaphthene	14.254	154	20910	1.653	ng	99
18) Fluorene	15.238	166	30868	1.659	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	4259	1.695	ng	# 84
21) 4-Bromophenyl-phenylether	16.138	248	12888	1.676	ng	# 86
22) Hexachlorobenzene	16.250	284	13172	1.651	ng	99
23) Atrazine	16.424	200	11471	1.663	ng	# 93
24) Pentachlorophenol	16.597	266	6275	1.683	ng	98
25) Phenanthrene	16.982	178	52915	1.666	ng	99
26) Anthracene	17.069	178	49046	1.681	ng	100
28) Fluoranthene	19.006	202	73694	1.687	ng	100
30) Pyrene	19.368	202	75558	1.641	ng	100
32) Benzo(a)anthracene	21.125	228	78298	1.627	ng	100
33) Chrysene	21.169	228	78533	1.647	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	38807	1.549	ng	99
36) Indeno(1,2,3-cd)pyrene	25.452	276	99936	1.663	ng	100
37) Benzo(b)fluoranthene	22.660	252	85426m	1.686	ng	
38) Benzo(k)fluoranthene	22.701	252	84960	1.676	ng	# 95
39) Benzo(a)pyrene	23.209	252	74668	1.675	ng	# 94
40) Dibenzo(a,h)anthracene	25.469	278	79628	1.673	ng	98
41) Benzo(g,h,i)perylene	26.107	276	83498	1.649	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035066.D
Acq On : 13 Nov 2024 15:04
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

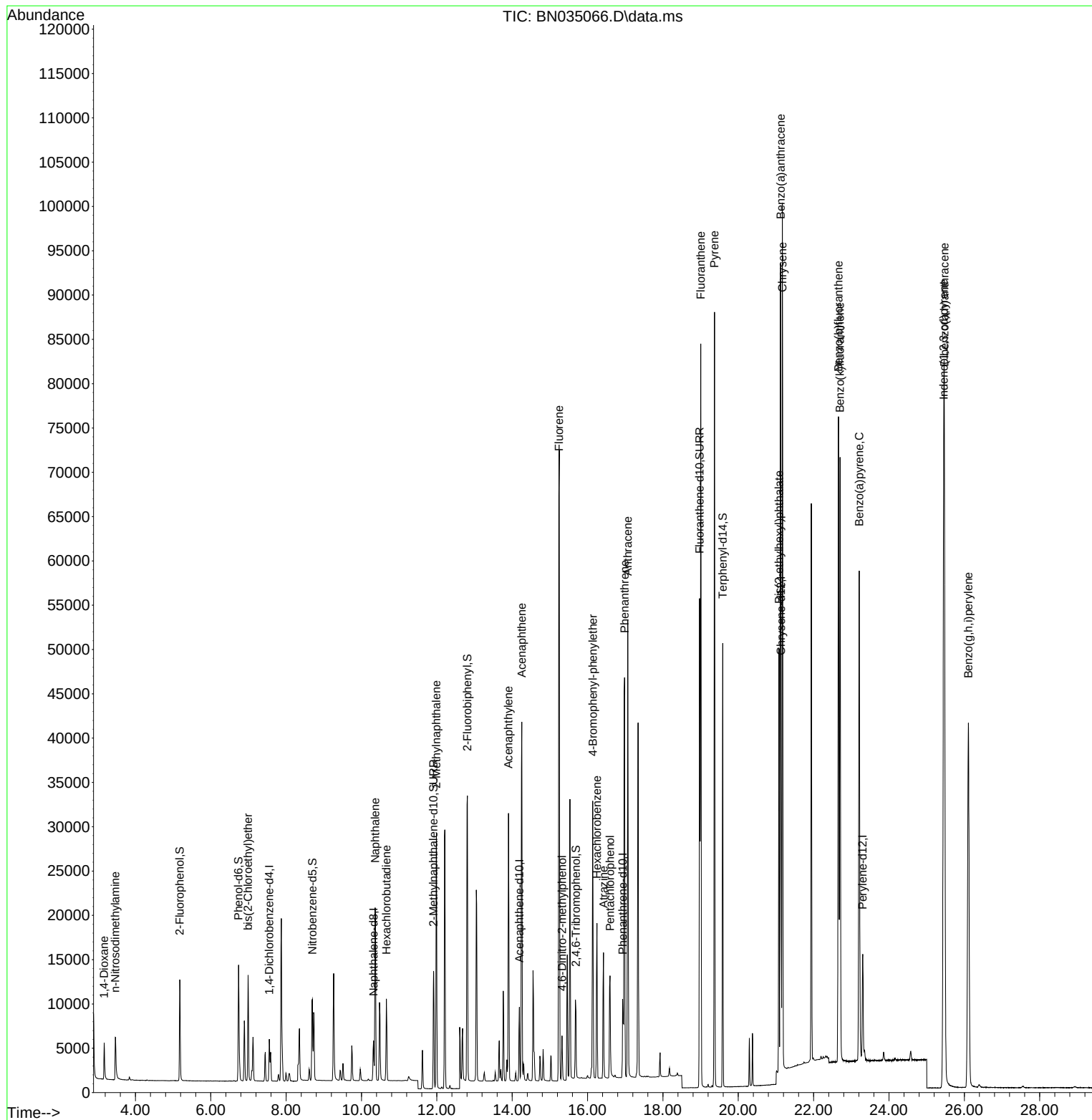
Manual Integrations

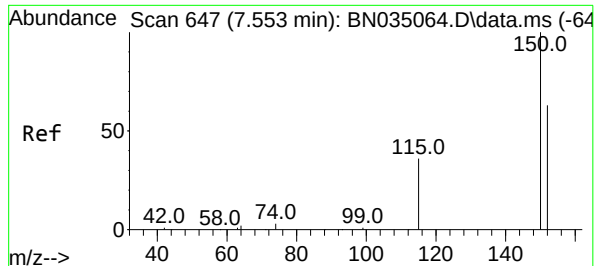
APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

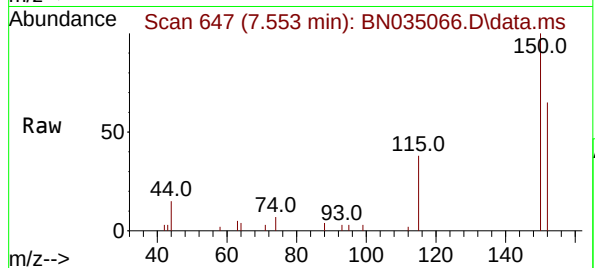
Quant Time: Nov 13 16:44:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

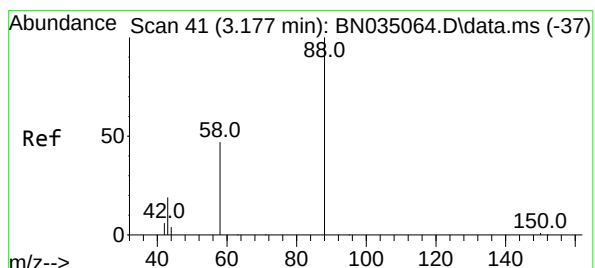
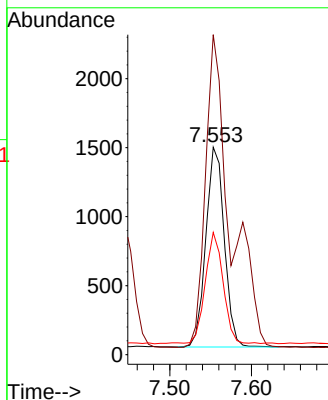
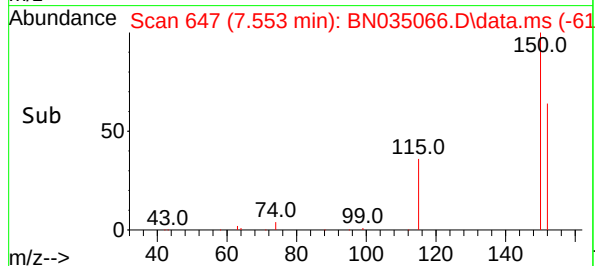
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:152 Resp: 2280
Ion Ratio Lower Upper
152 100
150 154.2 124.5 186.7
115 58.9 47.8 71.6

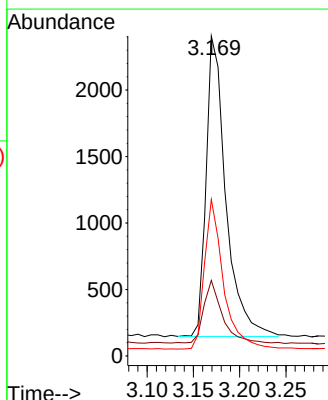
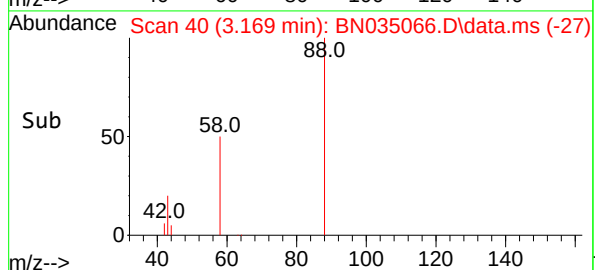
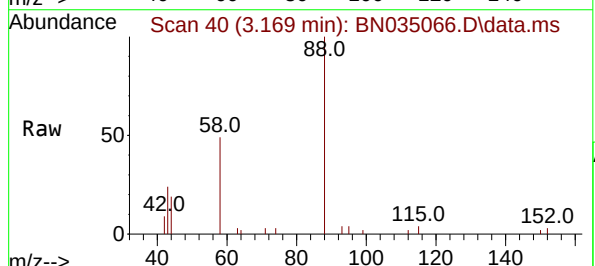
Manual Integrations
APPROVED

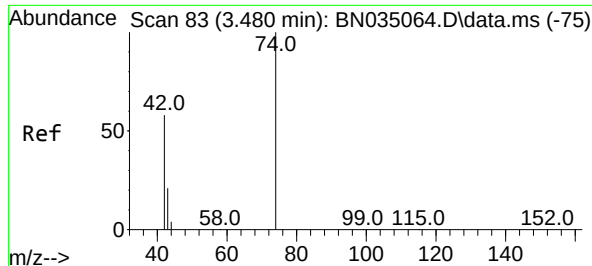
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#2
1,4-Dioxane
Concen: 1.618 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion: 88 Resp: 3351
Ion Ratio Lower Upper
88 100
43 20.3 16.9 25.3
58 47.7 39.0 58.4





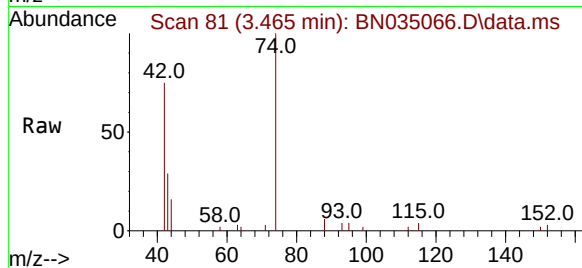
#3
n-Nitrosodimethylamine
Concen: 1.647 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.015 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

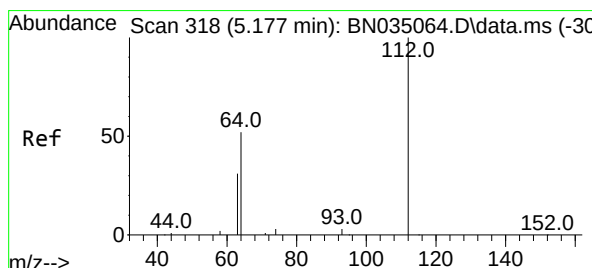
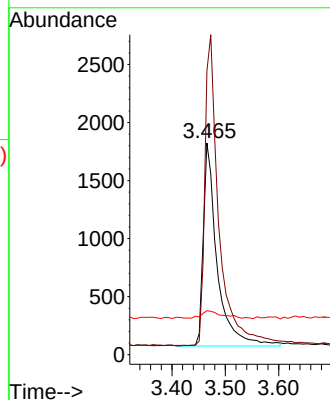
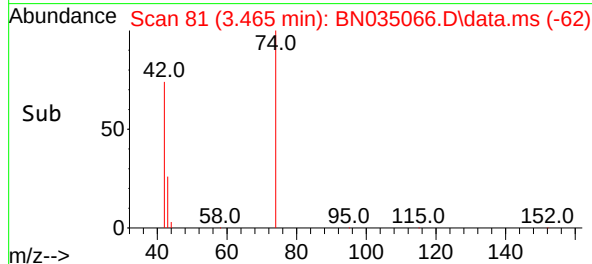
SSTDICC1.6



Tgt Ion: 42 Resp: 3168
Ion Ratio Lower Upper
42 100
74 155.0 120.8 181.2
44 6.3 2.9 4.3

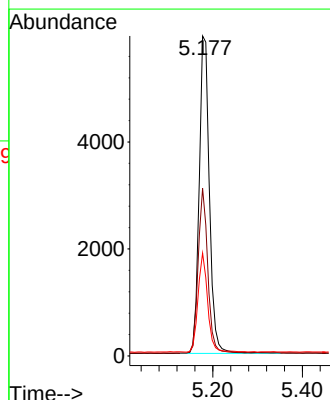
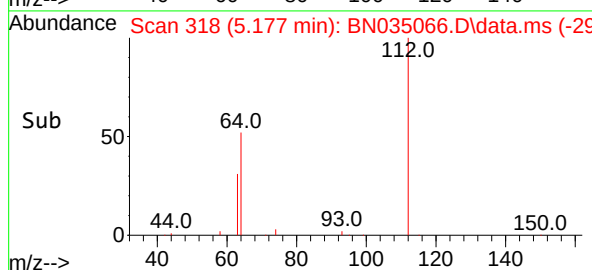
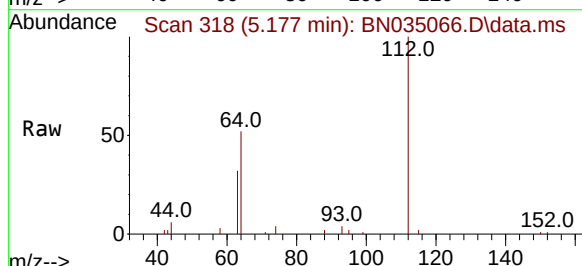
Manual Integrations
APPROVED

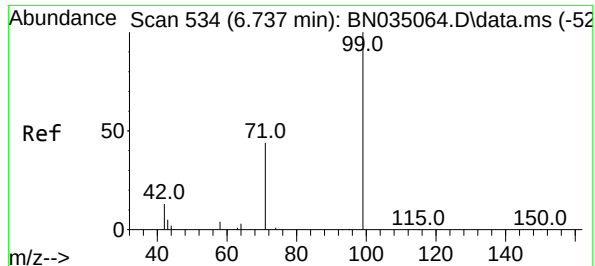
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#4
2-Fluorophenol
Concen: 1.629 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:112 Resp: 9427
Ion Ratio Lower Upper
112 100
64 48.8 39.7 59.5
63 29.4 23.0 34.4





#5

Phenol-d6

Concen: 1.657 ng

RT: 6.737 min Scan# 51

Delta R.T. -0.000 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

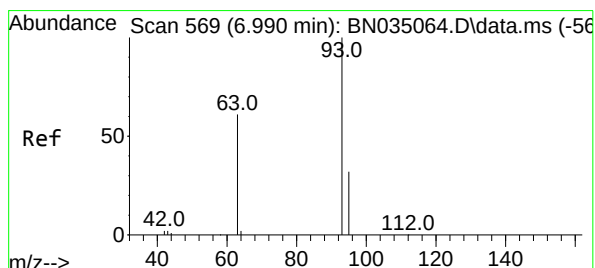
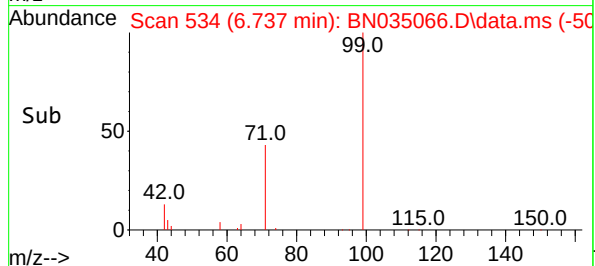
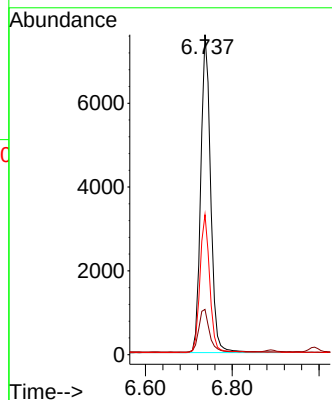
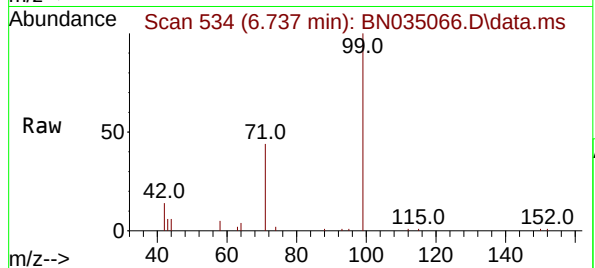
ClientSampleId :

SSTDICC1.6

Tgt Ion:	99	Resp:	1202
Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.0
71	42.9	34.6	51.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#6

bis(2-Chloroethyl)ether

Concen: 1.665 ng

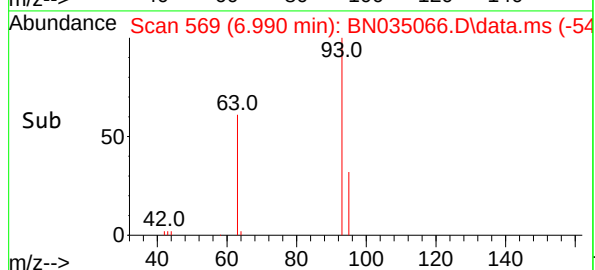
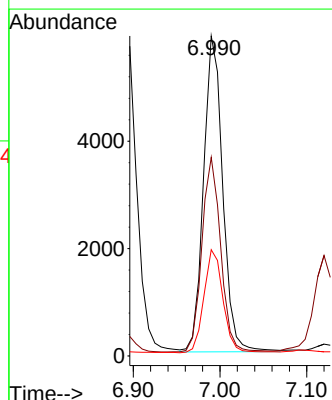
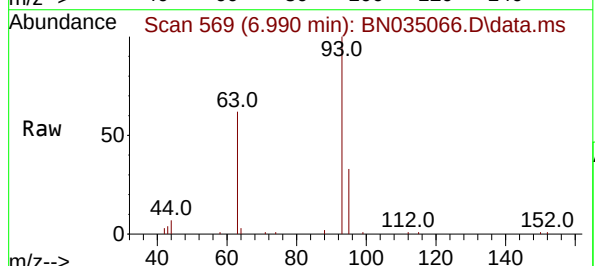
RT: 6.990 min Scan# 569

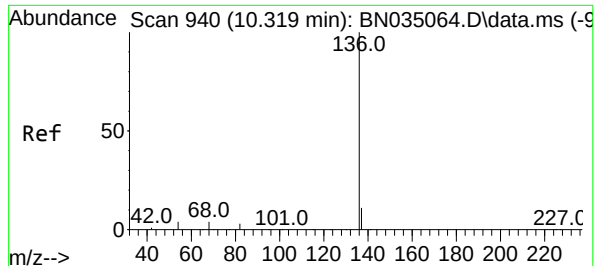
Delta R.T. -0.000 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Tgt Ion:	93	Resp:	9071
Ion	Ratio	Lower	Upper
93	100		
63	60.3	47.4	71.2
95	32.3	26.2	39.4





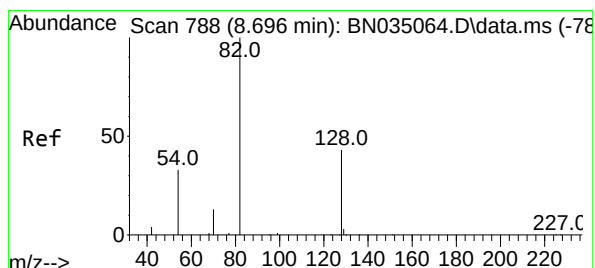
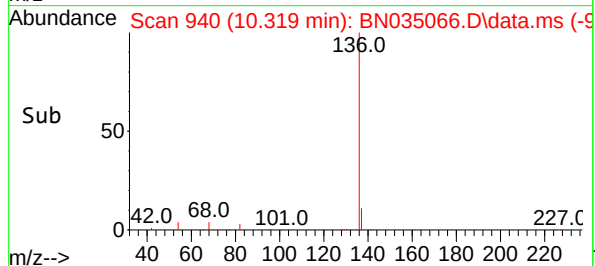
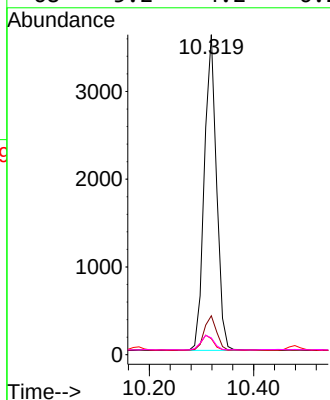
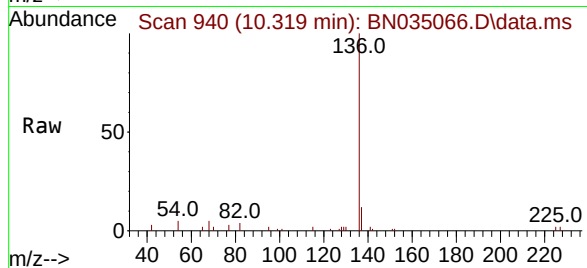
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:	136	Resp:	5820
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.8	14.8
54	5.0	4.0	6.0
68	5.2	4.2	6.2

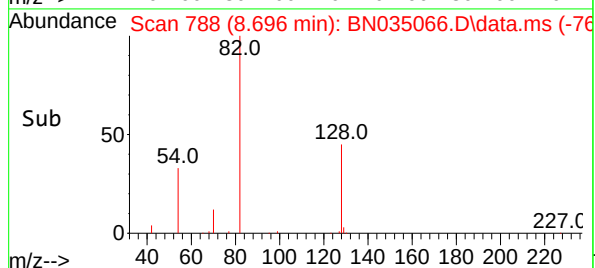
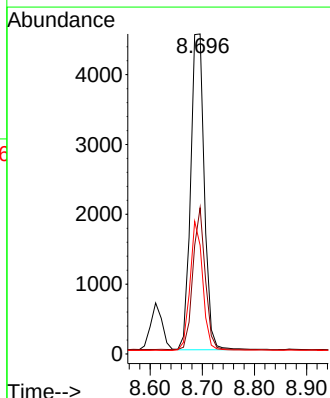
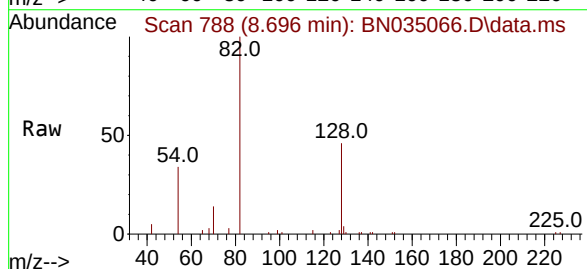
Manual Integrations
APPROVED

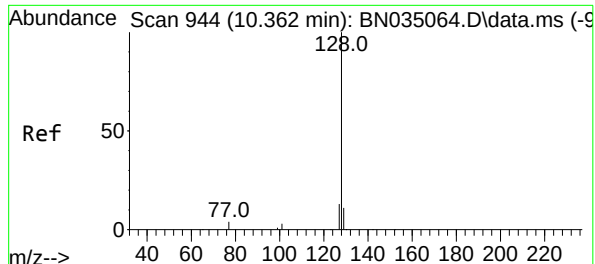
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#8
Nitrobenzene-d5
Concen: 1.643 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:	82	Resp:	8306
Ion	Ratio	Lower	Upper
82	100		
128	45.7	36.5	54.7
54	34.0	28.7	43.1





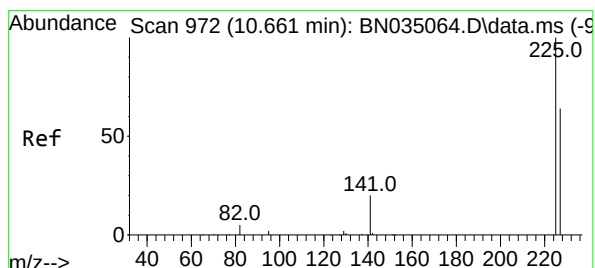
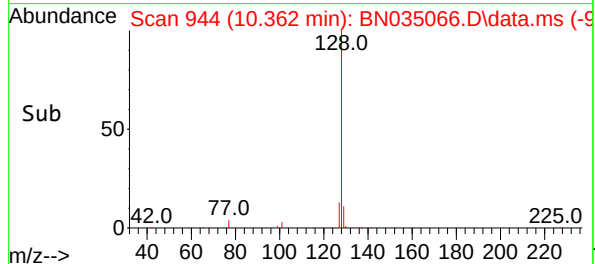
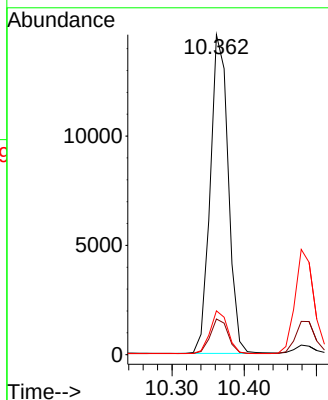
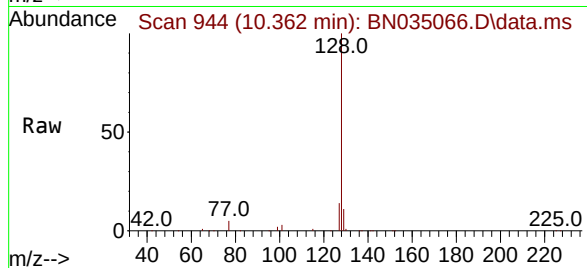
#9
Naphthalene
Concen: 1.662 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 2528
Ion Ratio Lower Upper
128 100
129 11.2 9.6 14.4
127 13.7 11.6 17.4

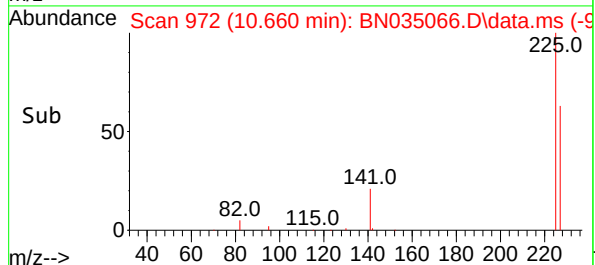
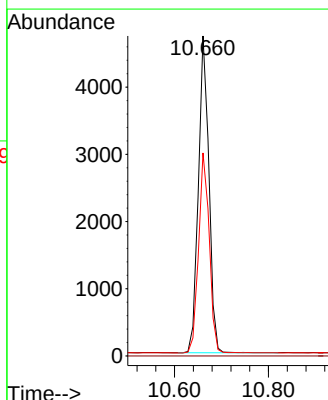
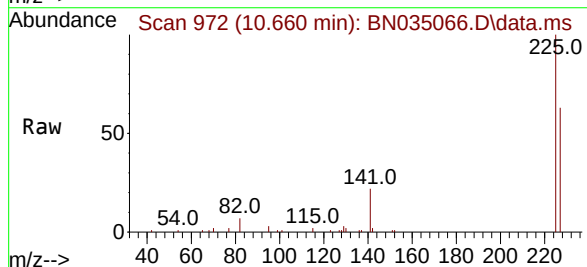
Manual Integrations
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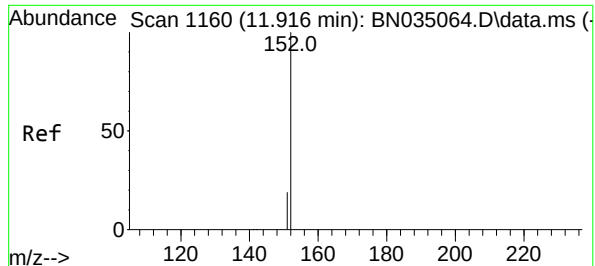
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#10
Hexachlorobutadiene
Concen: 1.646 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

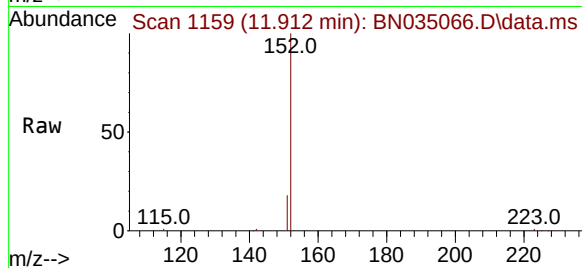
Tgt Ion:225 Resp: 7338
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.5 77.3





#11
2-Methylnaphthalene-d10
Concen: 1.690 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

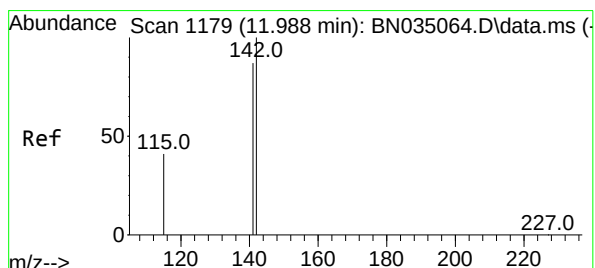
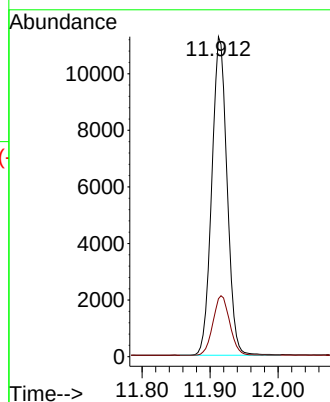
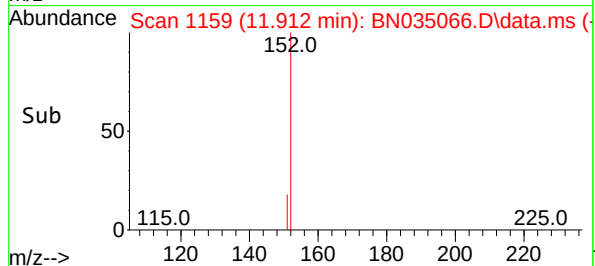
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:152 Resp: 1754
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4

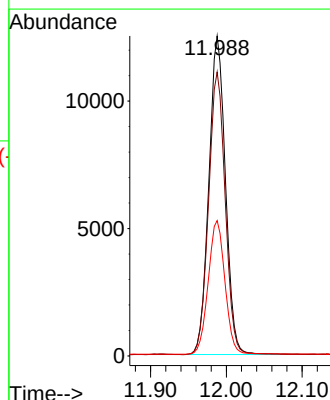
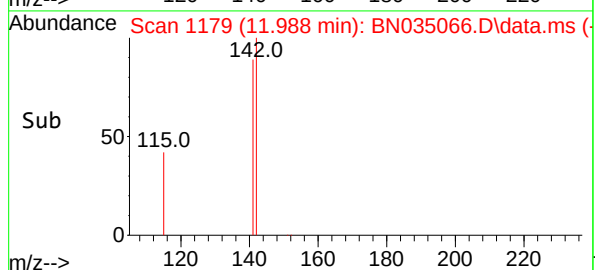
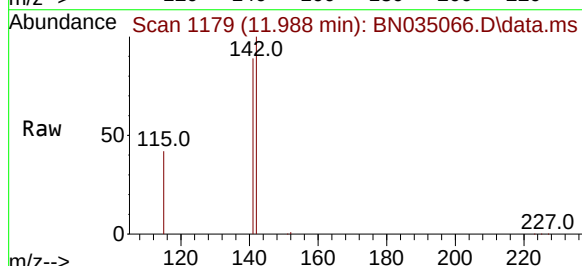
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APPROVED

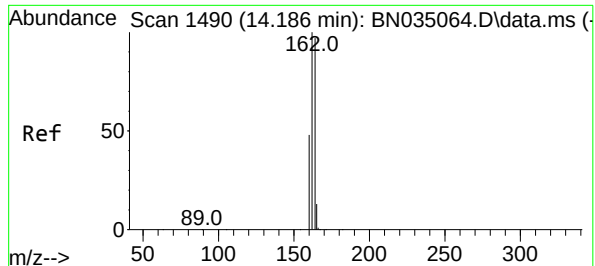
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#12
2-Methylnaphthalene
Concen: 1.693 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

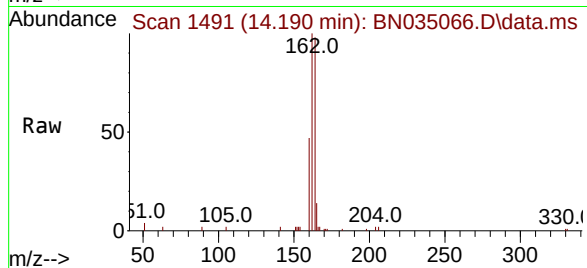
Tgt Ion:142 Resp: 18997
Ion Ratio Lower Upper
142 100
141 88.8 70.1 105.1
115 42.3 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1490
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

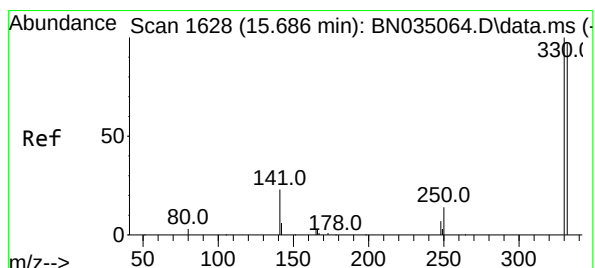
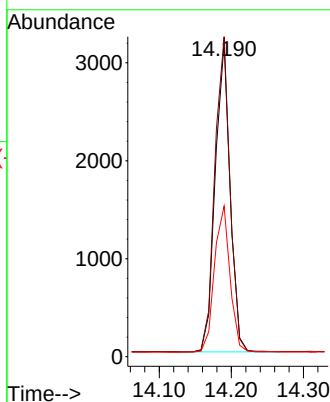
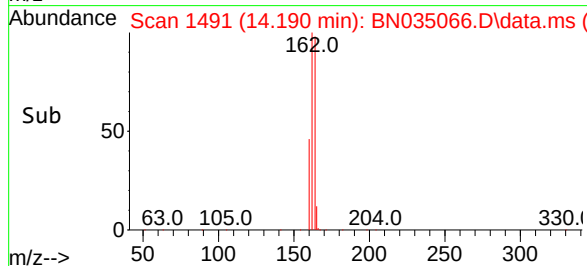
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



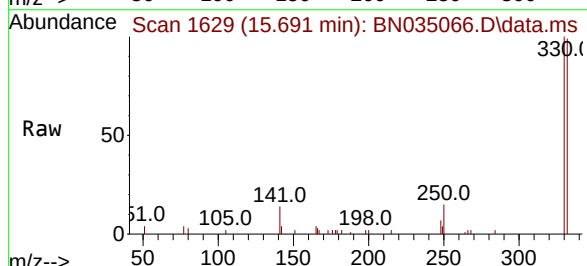
Tgt Ion:164 Resp: 451
Ion Ratio Lower Upper
164 100
162 101.8 82.2 123.2
160 47.9 40.2 60.4

Manual Integrations
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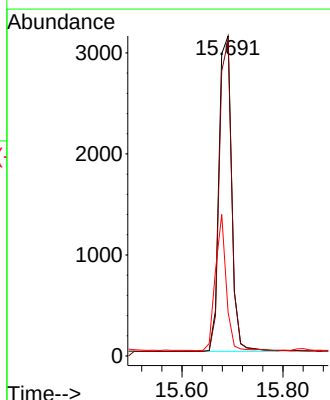
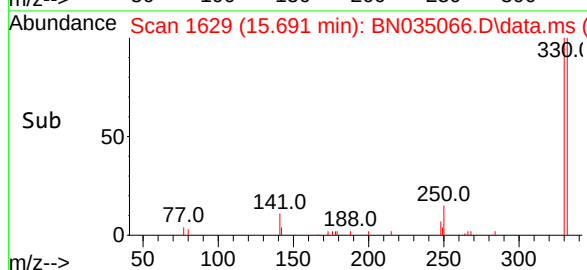
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

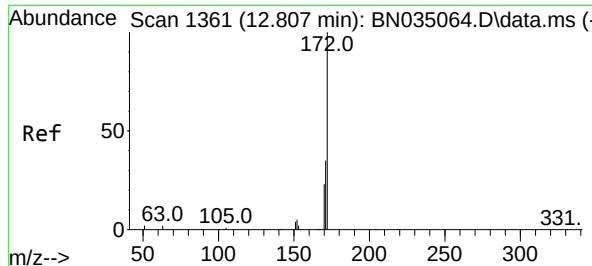


#14
2,4,6-Tribromophenol
Concen: 1.659 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04



Tgt Ion:330 Resp: 5402
Ion Ratio Lower Upper
330 100
332 96.8 76.9 115.3
141 37.2 29.6 44.4





#15

2-Fluorobiphenyl

Concen: 1.661 ng

RT: 12.811 min Scan# 1361

Delta R.T. 0.004 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

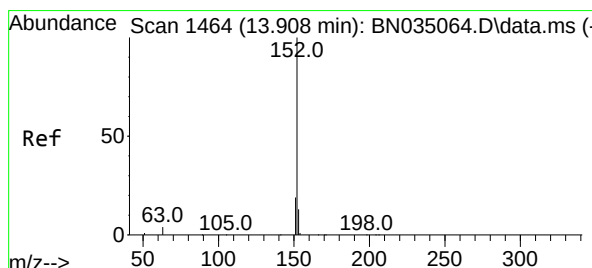
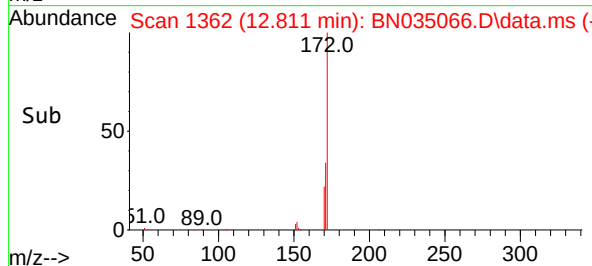
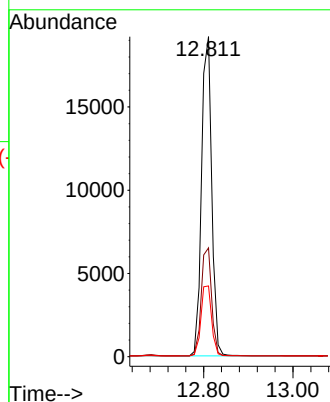
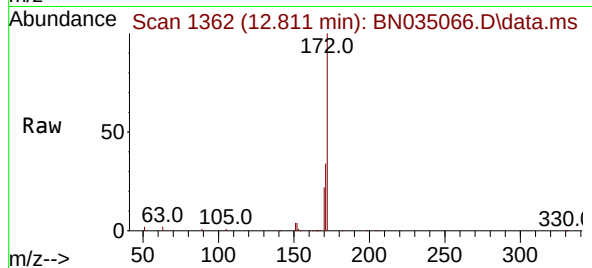
Tgt Ion:	172	Resp:	30472
Ion Ratio	Lower	Upper	
172	100		
171	34.0	28.2	42.4
170	22.1	19.0	28.6

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#16

Acenaphthylene

Concen: 1.661 ng

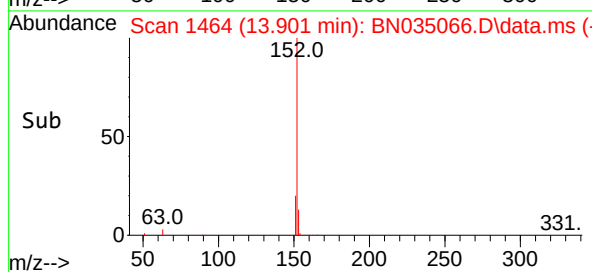
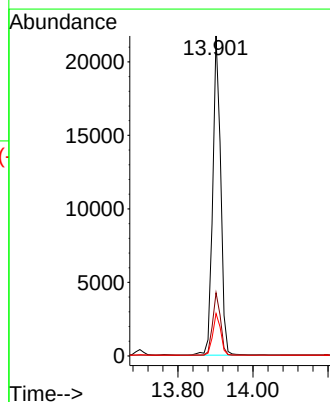
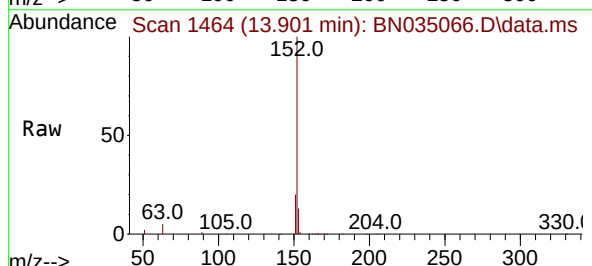
RT: 13.901 min Scan# 1464

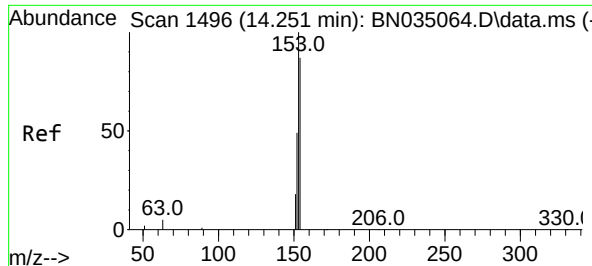
Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

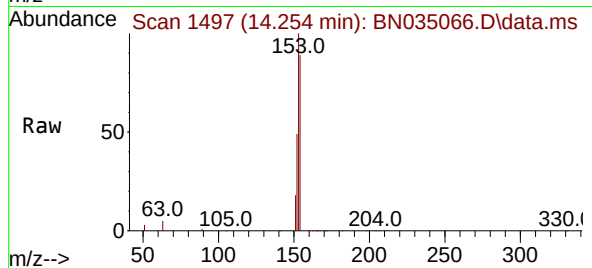
Tgt Ion:	152	Resp:	32064
Ion Ratio	Lower	Upper	
152	100		
151	19.5	15.8	23.8
153	13.1	10.2	15.4





#17
Acenaphthene
Concen: 1.653 ng
RT: 14.254 min Scan# 1497
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

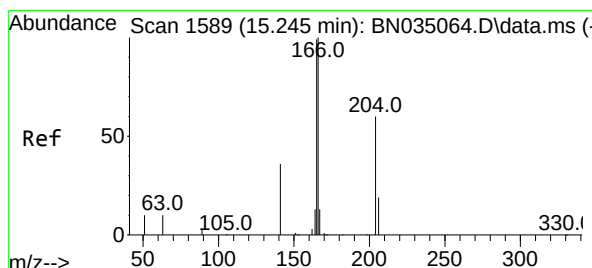
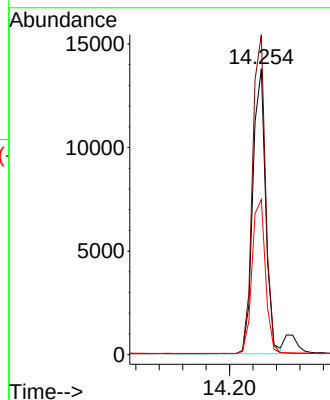
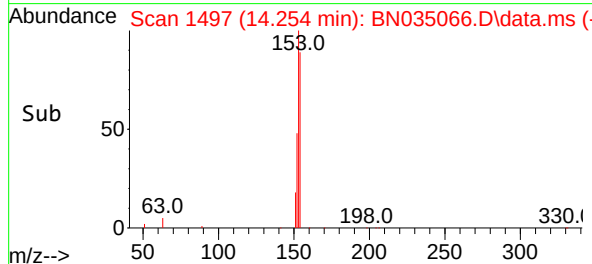
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:154 Resp: 20910
Ion Ratio Lower Upper
154 100
153 113.4 91.6 137.4
152 56.5 45.8 68.6

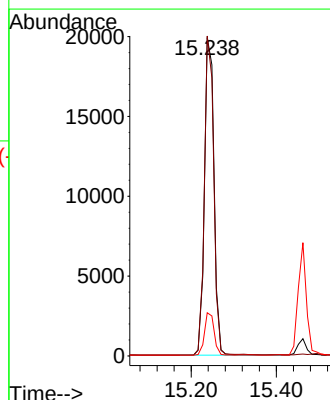
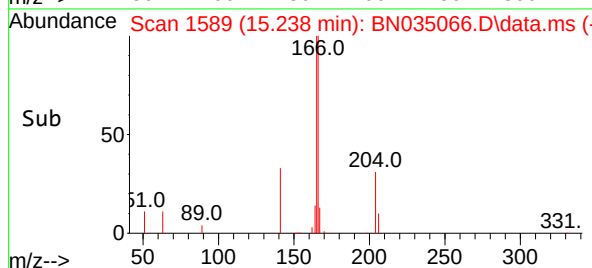
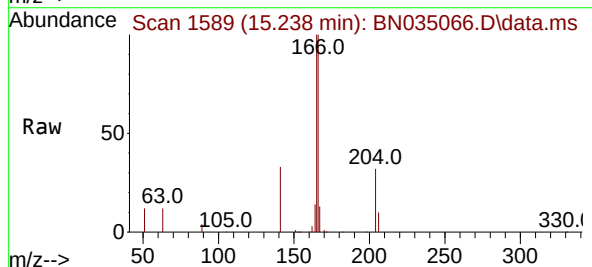
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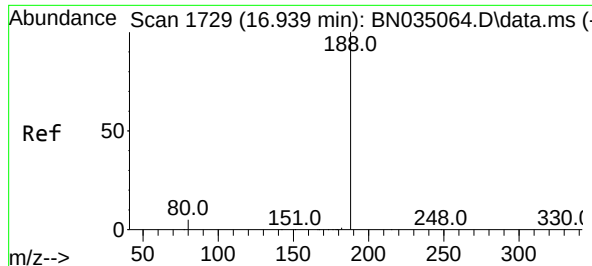
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#18
Fluorene
Concen: 1.659 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:166 Resp: 30868
Ion Ratio Lower Upper
166 100
165 98.0 79.1 118.7
167 13.4 10.6 16.0





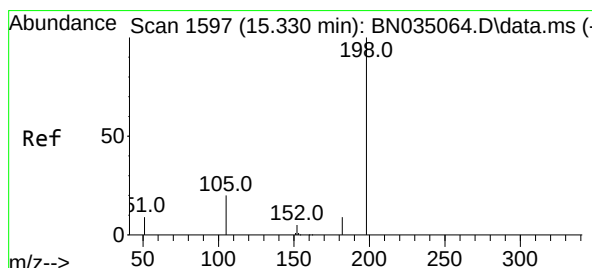
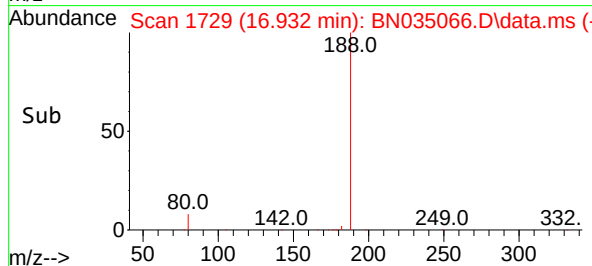
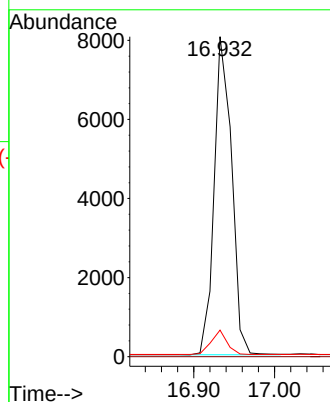
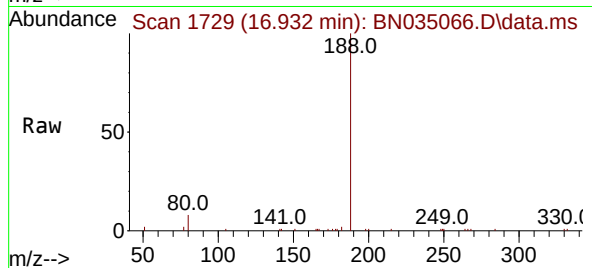
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.932 min Scan# 1729
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 12068
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.3 4.3 6.5

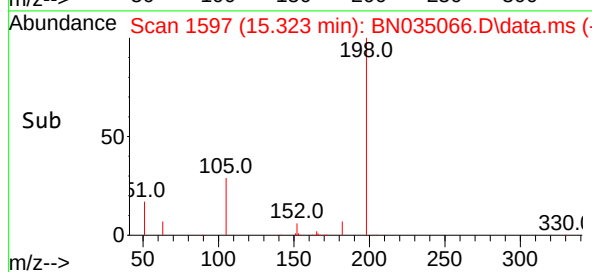
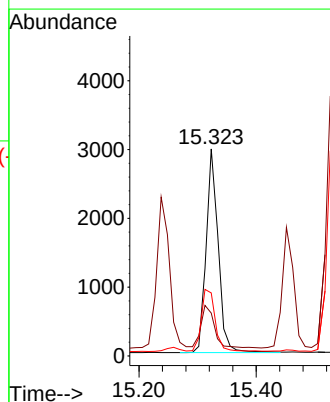
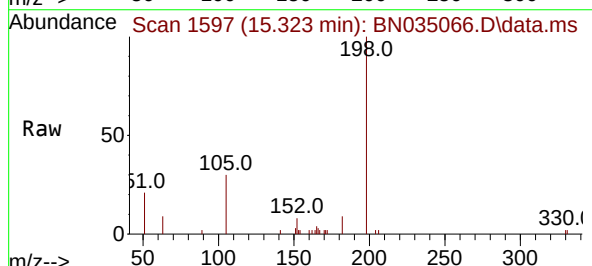
Manual Integrations
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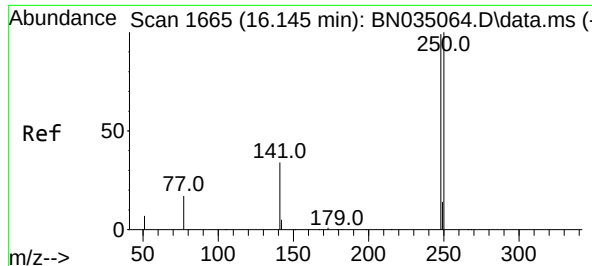
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#20
4,6-Dinitro-2-methylphenol
Concen: 1.695 ng
RT: 15.323 min Scan# 1597
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:198 Resp: 4259
Ion Ratio Lower Upper
198 100
51 20.7 29.9 44.9#
105 30.5 23.7 35.5





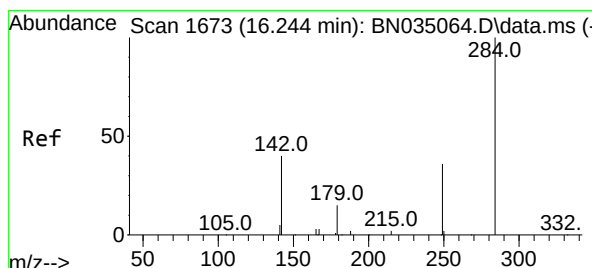
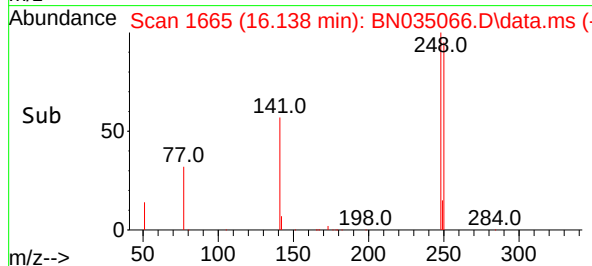
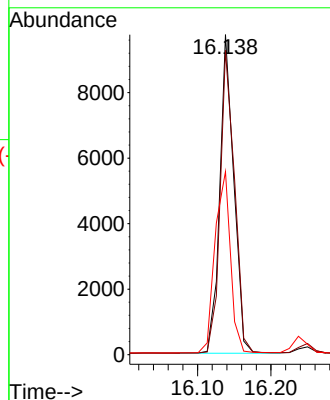
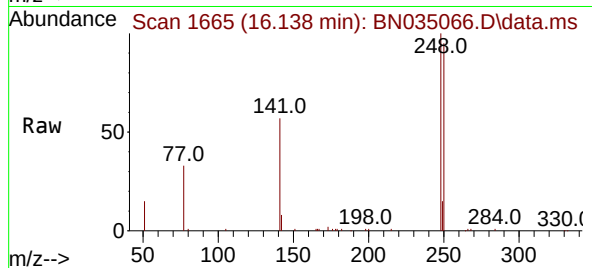
#21
4-Bromophenyl-phenylether
Concen: 1.676 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 1288
Ion Ratio Lower Upper
248 100
250 95.0 81.2 121.8
141 57.2 29.1 43.7

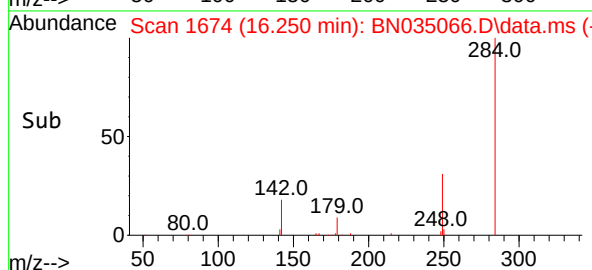
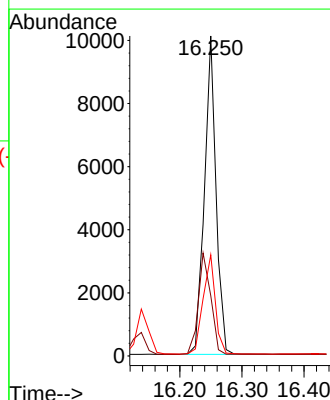
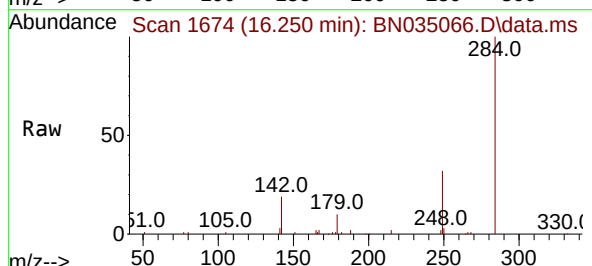
Manual Integrations
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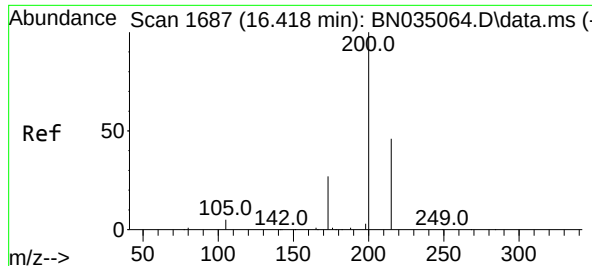
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#22
Hexachlorobenzene
Concen: 1.651 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:284 Resp: 13172
Ion Ratio Lower Upper
284 100
142 34.0 28.2 42.4
249 32.5 26.2 39.2





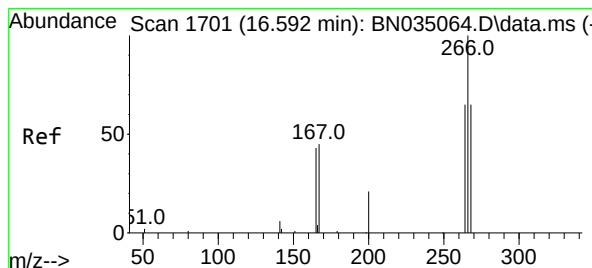
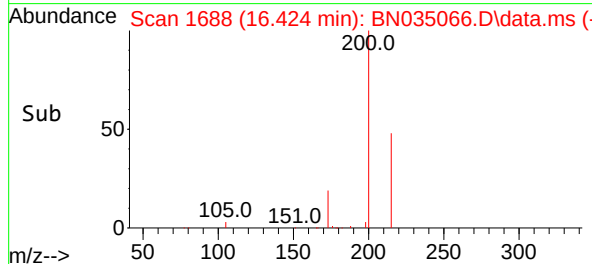
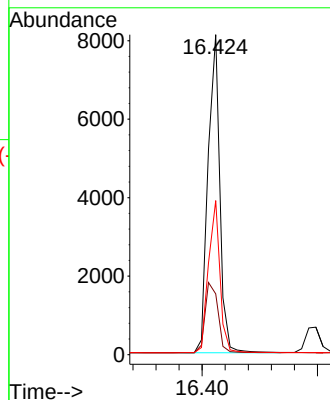
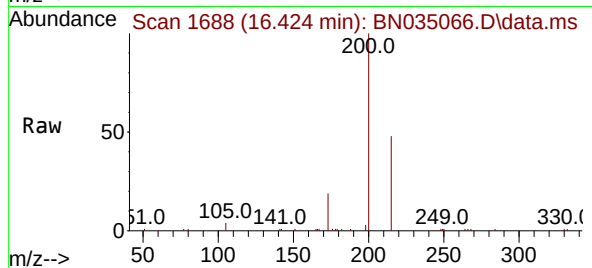
#23
Atrazine
Concen: 1.663 ng
RT: 16.424 min Scan# 1147
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 1147
Ion Ratio Lower Upper
200 100
173 19.0 22.6 33.8
215 48.2 37.8 56.6

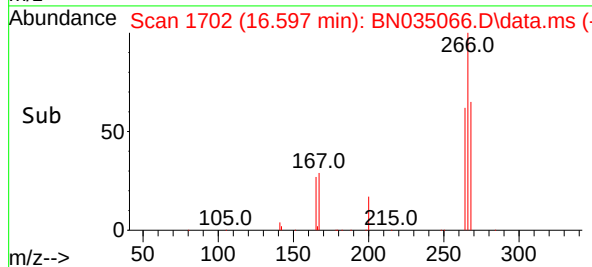
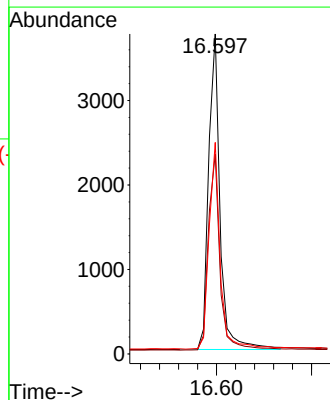
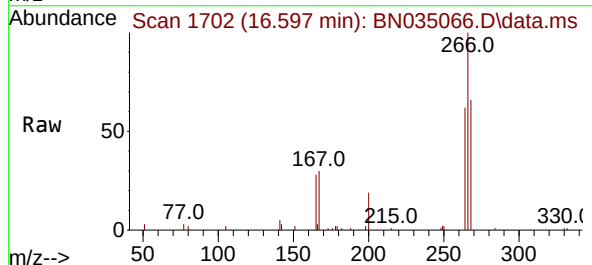
Manual Integrations
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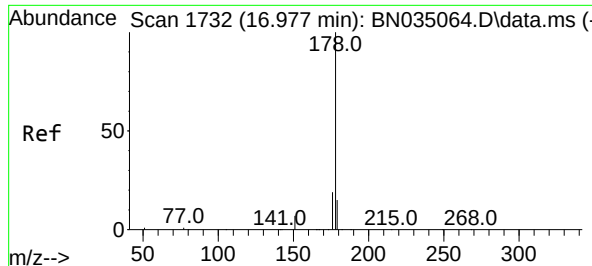
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#24
Pentachlorophenol
Concen: 1.683 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

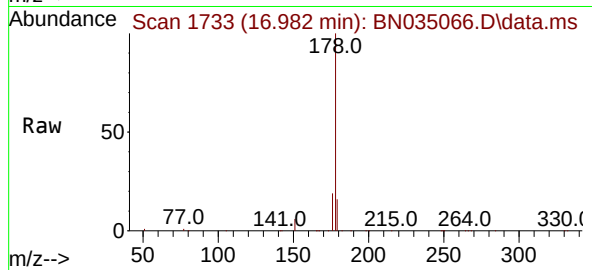
Tgt Ion:266 Resp: 6275
Ion Ratio Lower Upper
266 100
264 63.2 49.4 74.0
268 63.7 52.6 79.0





#25
Phenanthrene
Concen: 1.666 ng
RT: 16.982 min Scan# 1733
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

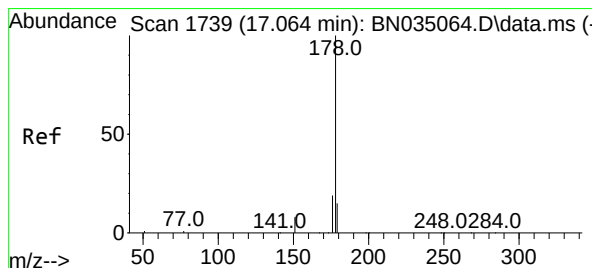
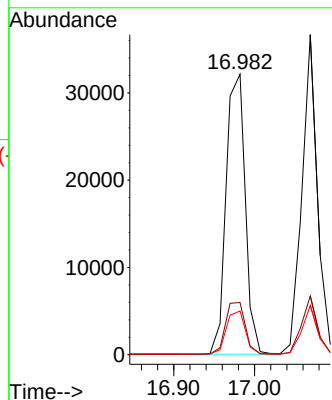
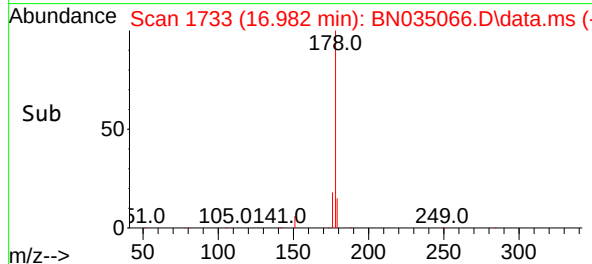
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:178 Resp: 52915
Ion Ratio Lower Upper
178 100
176 19.1 15.2 22.8
179 15.3 12.6 18.8

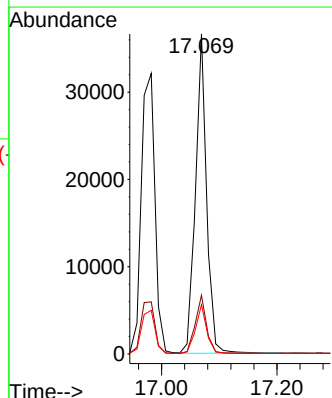
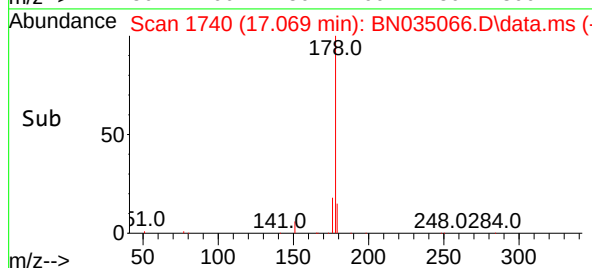
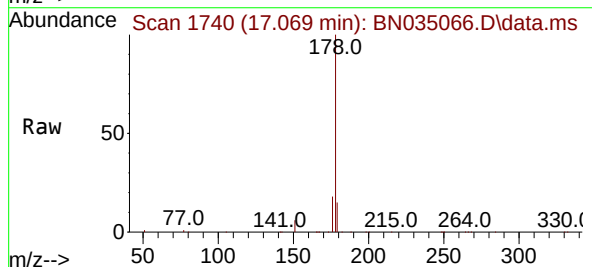
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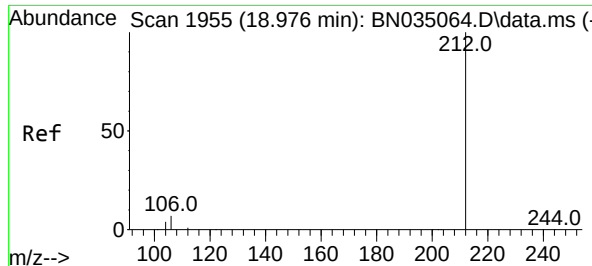
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#26
Anthracene
Concen: 1.681 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:178 Resp: 49046
Ion Ratio Lower Upper
178 100
176 18.4 14.6 22.0
179 15.3 12.2 18.2





#27

Fluoranthene-d10

Concen: 1.676 ng

RT: 18.973 min Scan# 1955

Delta R.T. -0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

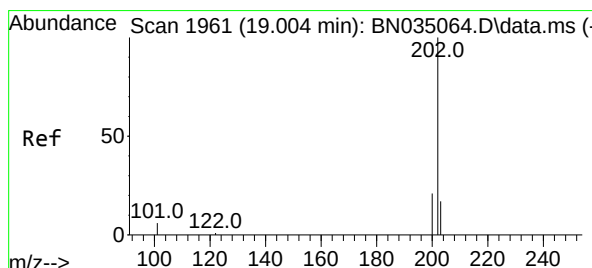
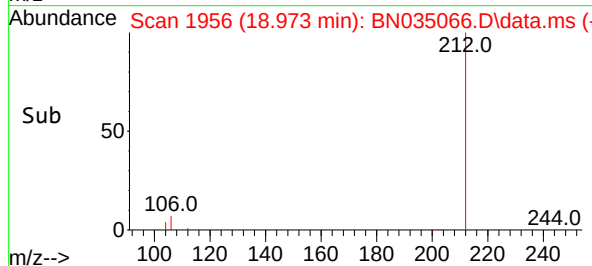
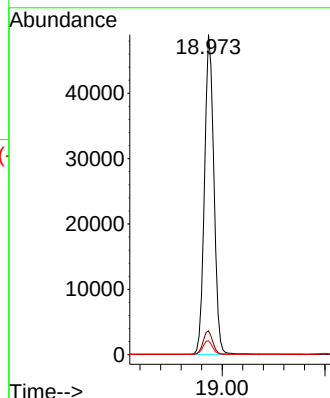
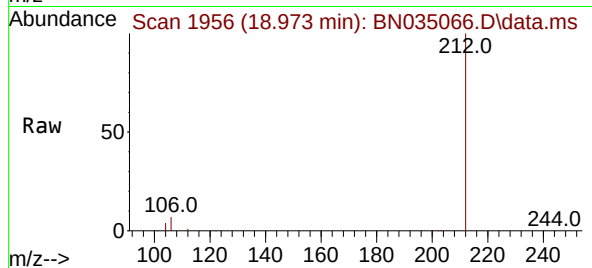
SSTDICC1.6

Tgt Ion:	212	Resp:	61972
Ion Ratio	Lower	Upper	
212	100		
106	7.5	6.0	9.0
104	4.3	3.5	5.3

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#28

Fluoranthene

Concen: 1.687 ng

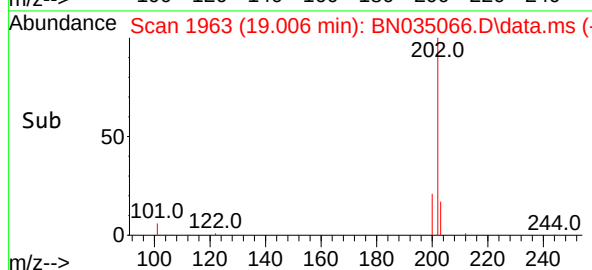
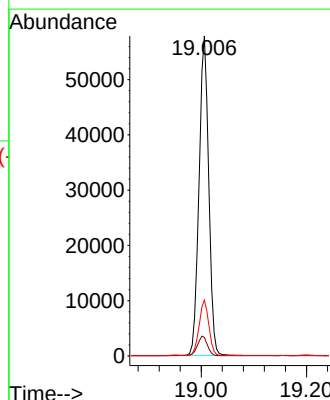
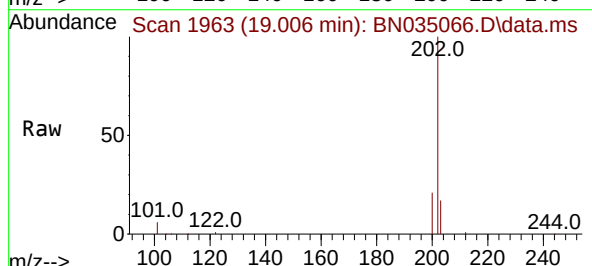
RT: 19.006 min Scan# 1963

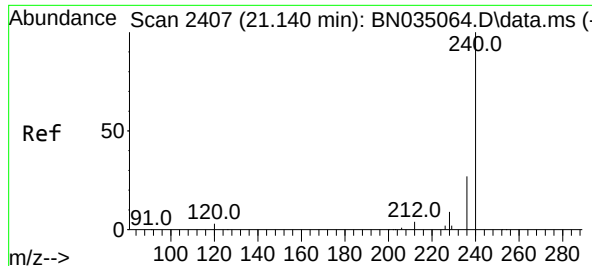
Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Tgt Ion:	202	Resp:	73694
Ion Ratio	Lower	Upper	
202	100		
101	6.3	5.2	7.8
203	17.4	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.133 min Scan# 2408

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

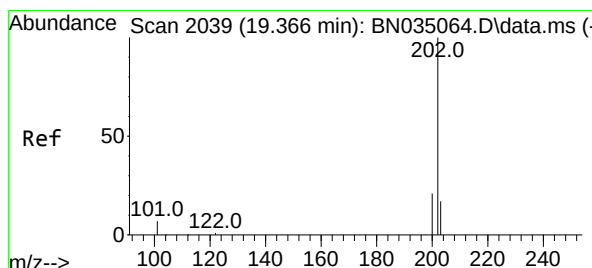
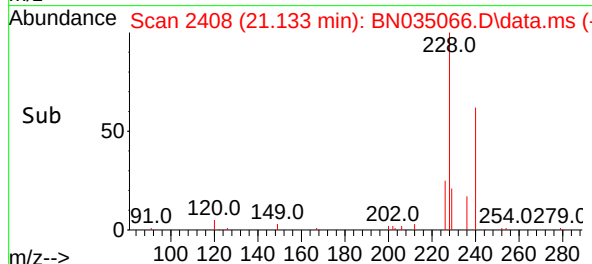
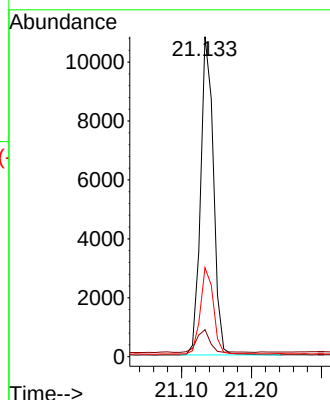
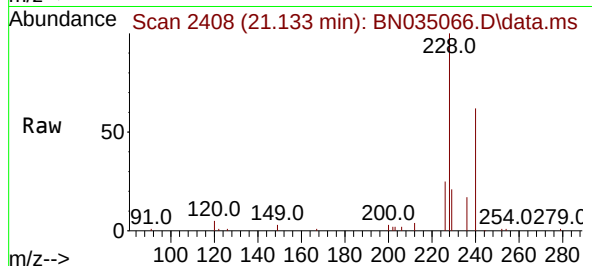
SSTDICC1.6

Tgt Ion:240 Resp: 1382

Ion	Ratio	Lower	Upper
240	100		
120	8.5	3.8	5.6
236	27.8	22.2	33.2

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Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#30

Pyrene

Concen: 1.641 ng

RT: 19.368 min Scan# 2041

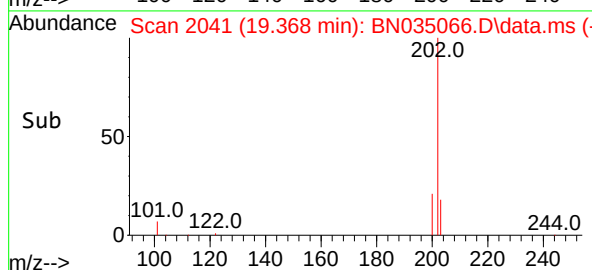
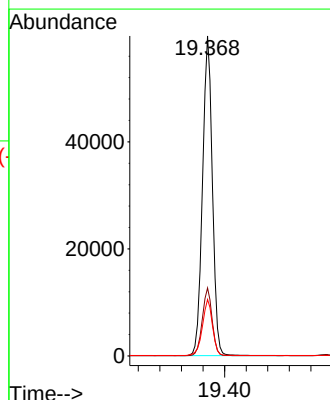
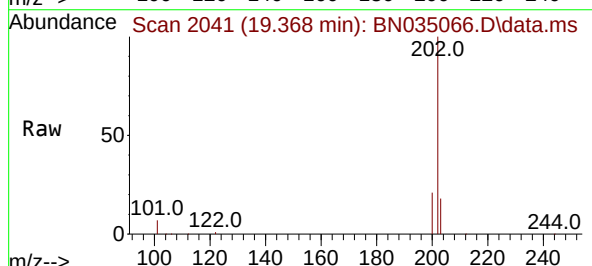
Delta R.T. 0.002 min

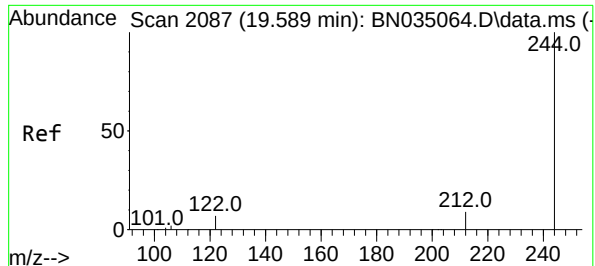
Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Tgt Ion:202 Resp: 75558

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.9	14.2	21.4





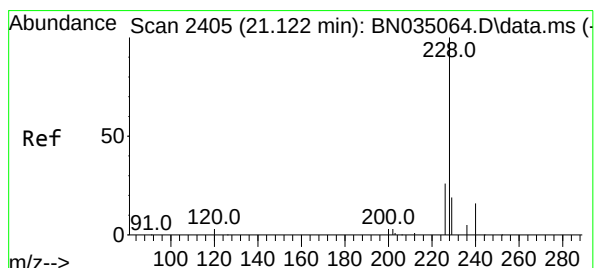
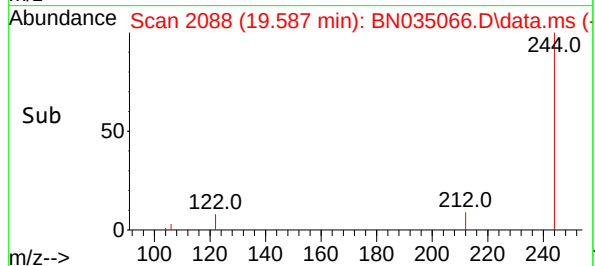
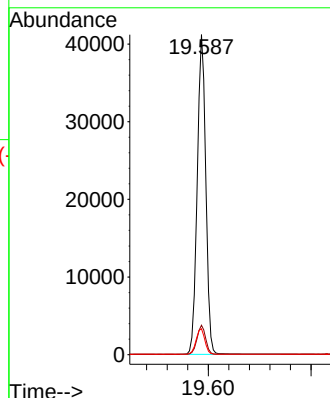
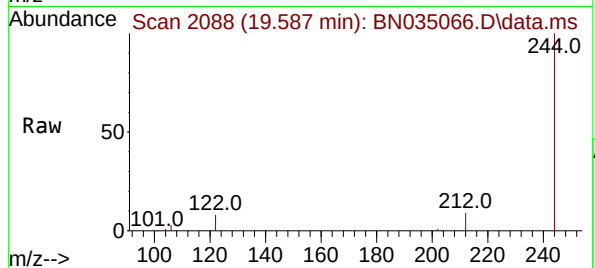
#31
Terphenyl-d14
Concen: 1.652 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 47914
Ion Ratio Lower Upper
244 100
212 9.2 7.6 11.4
122 8.1 6.1 9.1

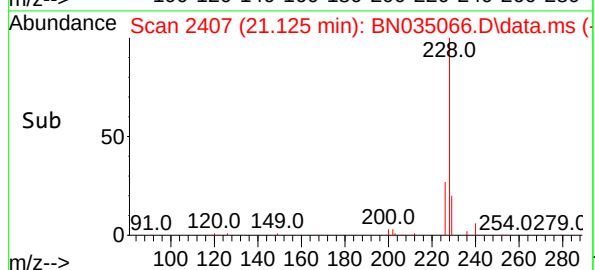
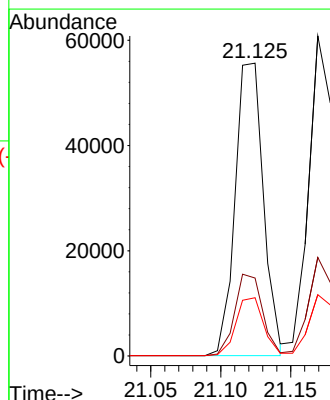
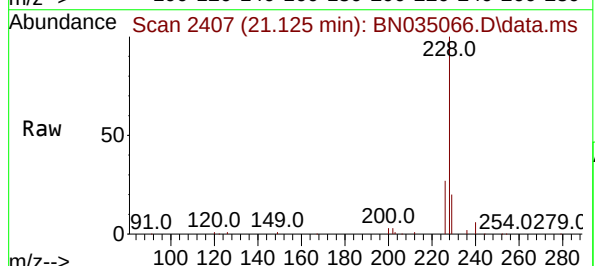
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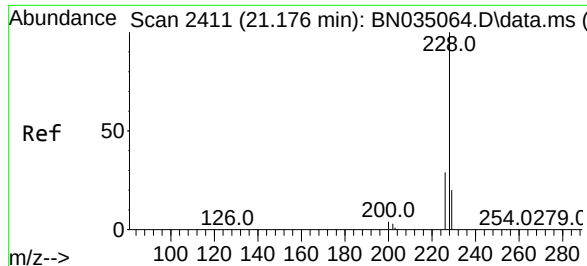
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#32
Benzo(a)anthracene
Concen: 1.627 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:228 Resp: 78298
Ion Ratio Lower Upper
228 100
226 26.6 21.4 32.0
229 19.9 15.7 23.5





#33

Chrysene

Concen: 1.647 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:228 Resp: 7853

Ion Ratio Lower Upper

228 100

226 30.8 23.7 35.5

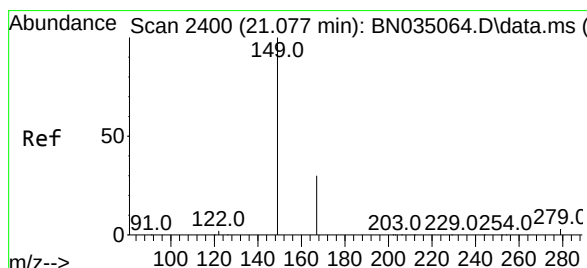
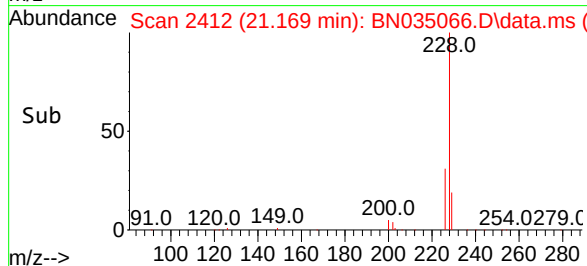
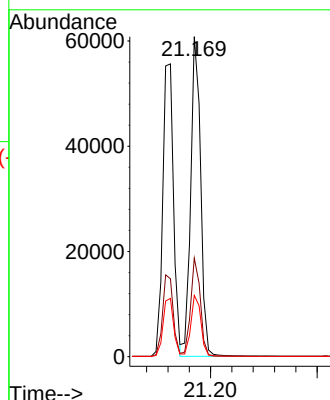
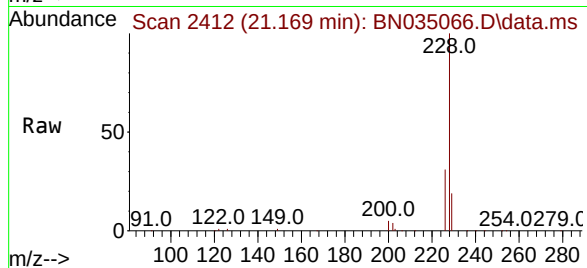
229 19.2 16.2 24.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.549 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

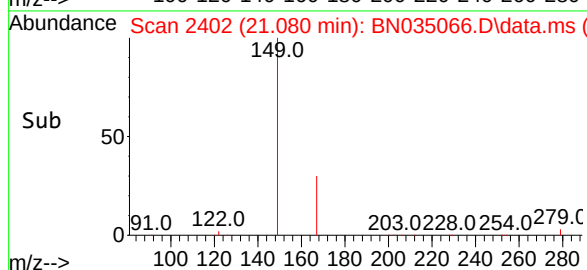
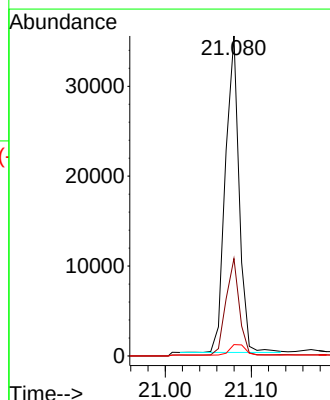
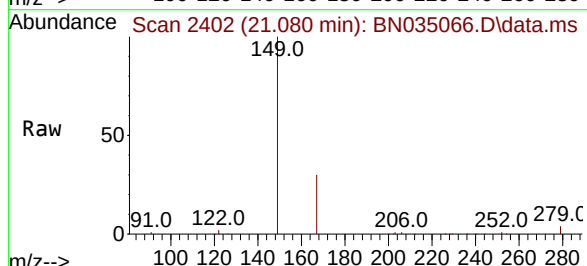
Tgt Ion:149 Resp: 38807

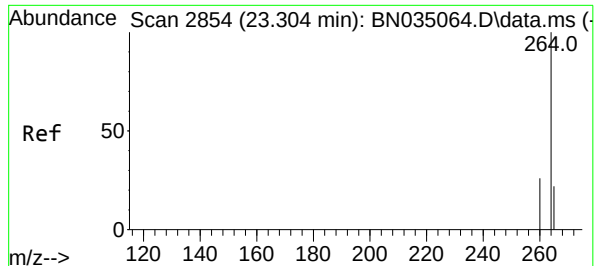
Ion Ratio Lower Upper

149 100

167 29.5 23.2 34.8

279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.303 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:264 Resp: 15060

Ion Ratio Lower Upper

264 100

260 26.0 20.9 31.3

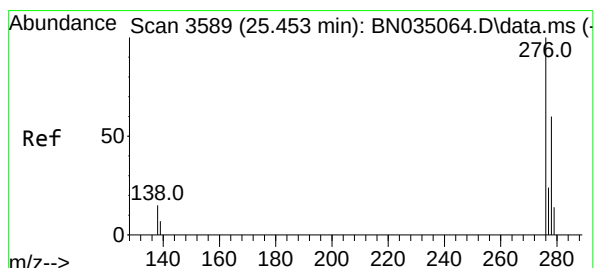
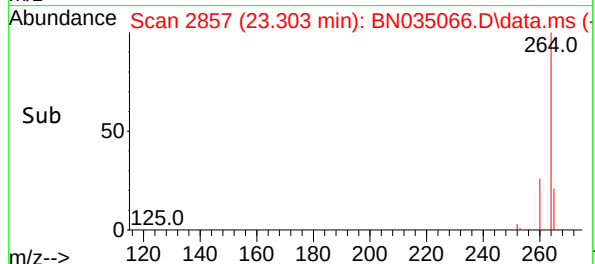
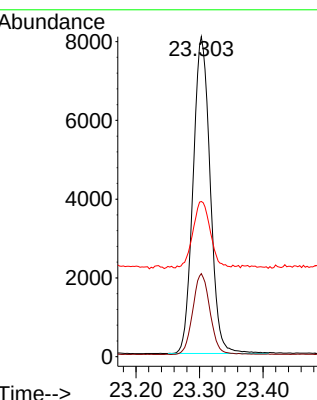
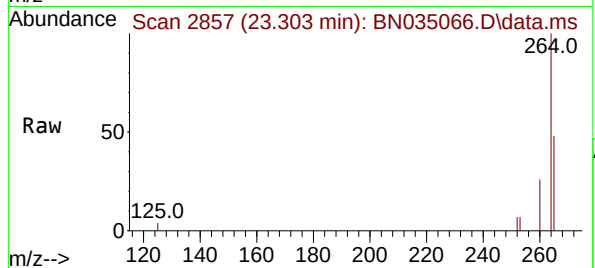
265 48.5 35.4 53.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.663 ng

RT: 25.452 min Scan# 3592

Delta R.T. -0.001 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

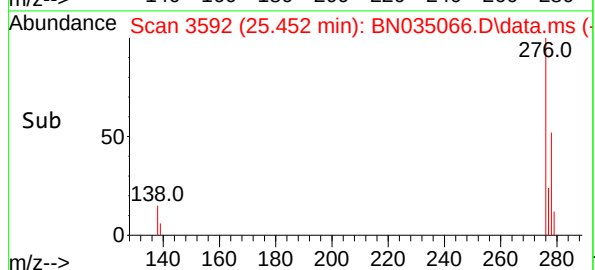
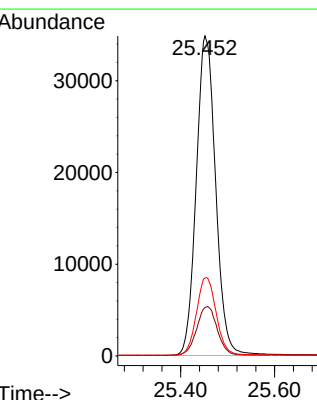
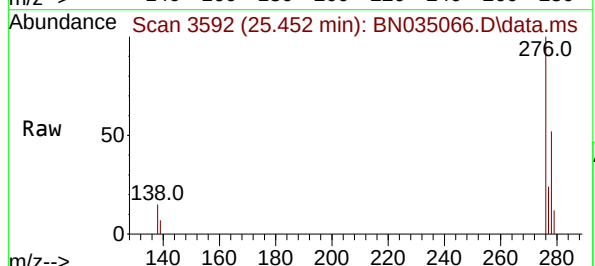
Tgt Ion:276 Resp: 99936

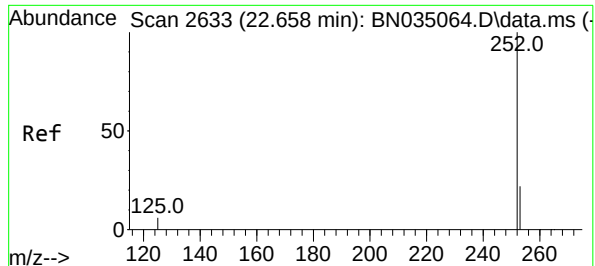
Ion Ratio Lower Upper

276 100

138 16.1 13.0 19.4

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 1.686 ng m

RT: 22.660 min Scan# 2637

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

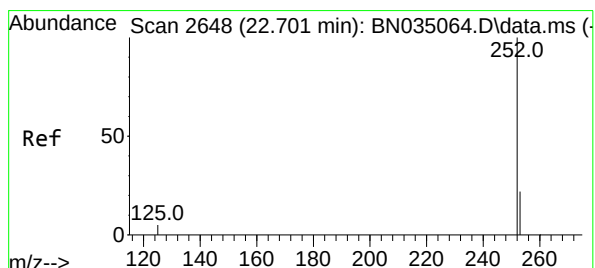
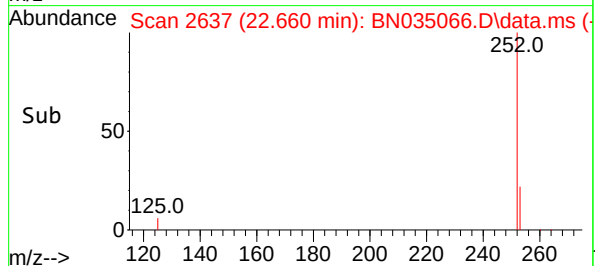
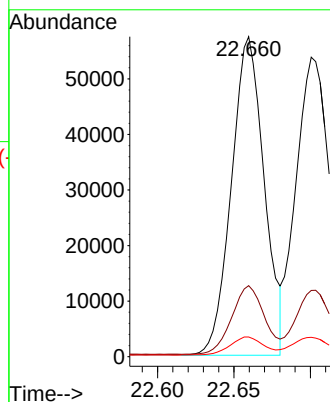
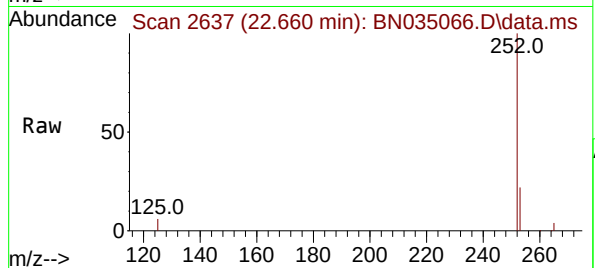
SSTDICC1.6

Tgt Ion:252 Resp: 85420

Ion	Ratio	Lower	Upper
252	100		
253	22.2	19.3	28.9
125	6.1	6.2	9.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#38

Benzo(k)fluoranthene

Concen: 1.676 ng

RT: 22.701 min Scan# 2651

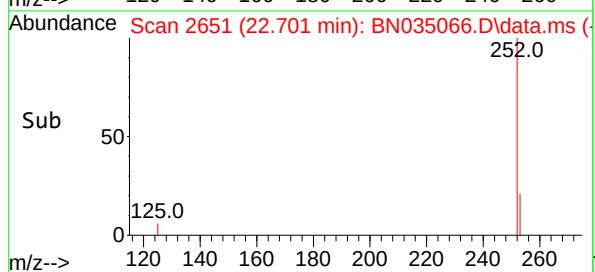
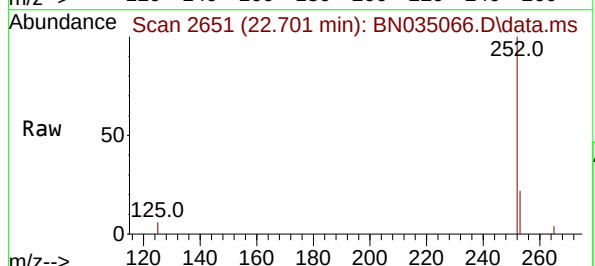
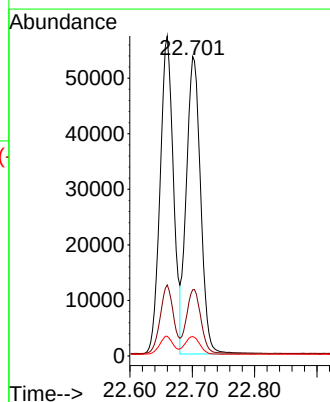
Delta R.T. -0.001 min

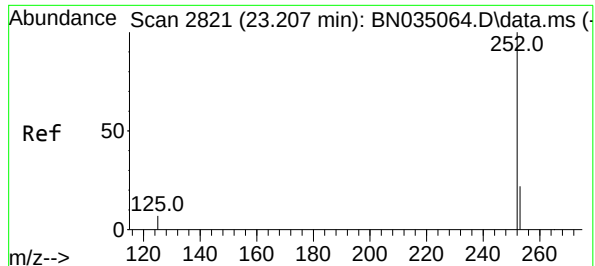
Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Tgt Ion:252 Resp: 84960

Ion	Ratio	Lower	Upper
252	100		
253	22.1	19.5	29.3
125	6.5	6.5	9.7





#39

Benzo(a)pyrene

Concen: 1.675 ng

RT: 23.209 min Scan# 2821

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

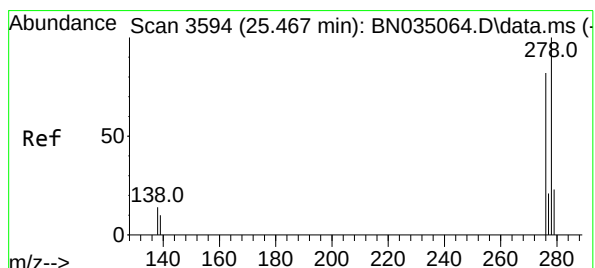
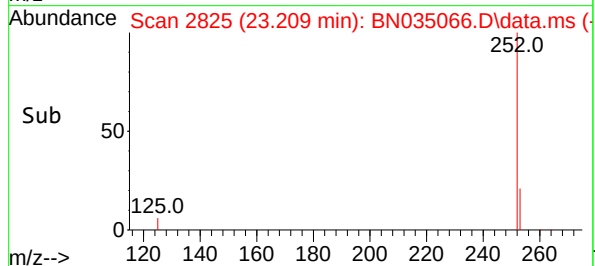
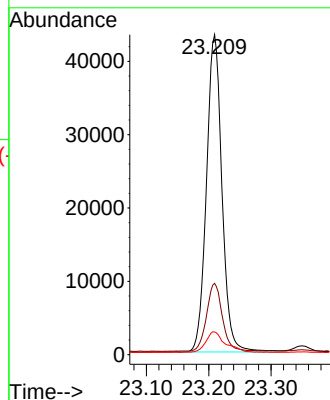
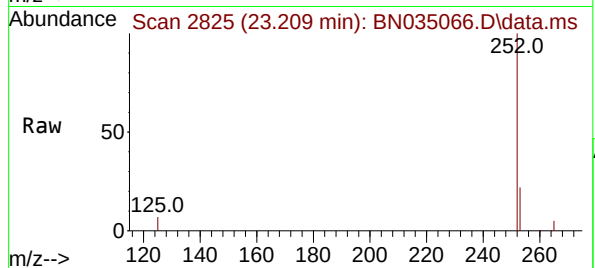
ClientSampleId :

SSTDICC1.6

Tgt Ion:	252	Resp:	7466
Ion Ratio	Lower	Upper	
252	100		
253	22.3	20.1	30.1
125	7.1	7.5	11.3

Manual Integrations
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Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#40

Dibenzo(a,h)anthracene

Concen: 1.673 ng

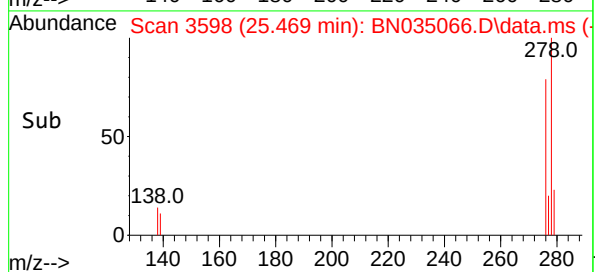
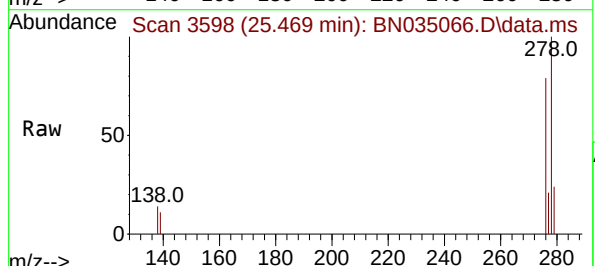
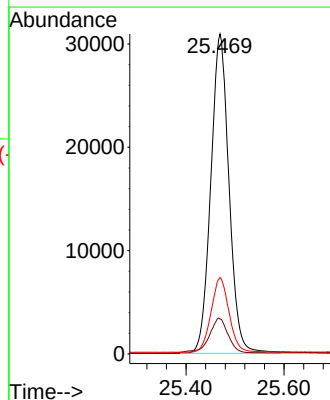
RT: 25.469 min Scan# 3598

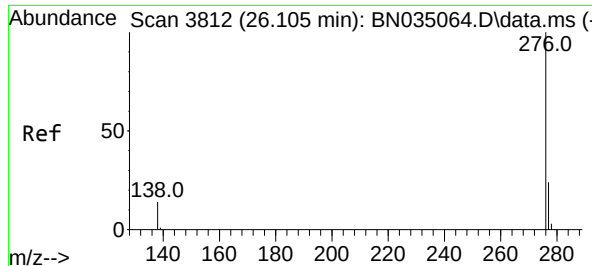
Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Tgt Ion:	278	Resp:	79628
Ion Ratio	Lower	Upper	
278	100		
139	10.9	9.3	13.9
279	23.9	19.7	29.5





#41

Benzo(g,h,i)perylene

Concen: 1.649 ng

RT: 26.107 min Scan# 3812

Delta R.T. 0.002 min

Lab File: BN035066.D

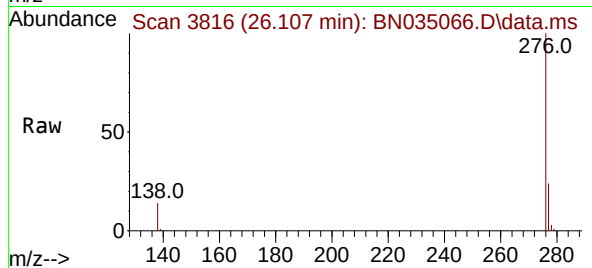
Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



Tgt Ion:276 Resp: 83498

Ion Ratio Lower Upper

276 100

277 23.7 19.9 29.9

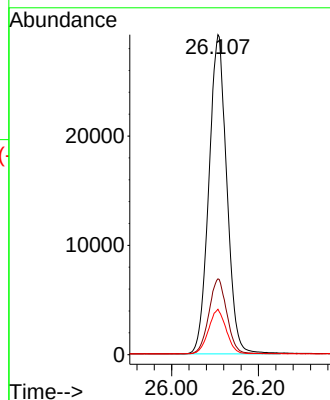
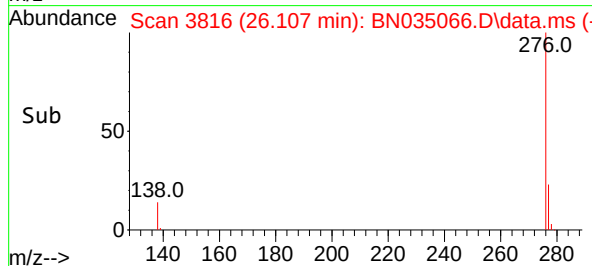
138 14.2 11.6 17.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035067.D
 Acq On : 13 Nov 2024 15:39
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 16:45:11 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 16:42:01 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2920	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	7487	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	5593	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	14864	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	17096	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	18582	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	22571	3.045	ng	0.00
5) Phenol-d6	6.737	99	29328	3.155	ng	0.00
8) Nitrobenzene-d5	8.696	82	20578	3.167	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	42128	3.157	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	13778	3.417	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	71543	3.150	ng	0.00
27) Fluoranthene-d10	18.973	212	145321	3.191	ng	0.00
31) Terphenyl-d14	19.587	244	111732	3.115	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	8131	3.066	ng	99
3) n-Nitrosodimethylamine	3.465	42	7509	3.049	ng	# 93
6) bis(2-Chloroethyl)ether	6.990	93	21619	3.099	ng	99
9) Naphthalene	10.362	128	60468	3.093	ng	98
10) Hexachlorobutadiene	10.660	225	17300	3.019	ng	# 99
12) 2-Methylnaphthalene	11.988	142	45806	3.176	ng	98
16) Acenaphthylene	13.901	152	78553	3.286	ng	99
17) Acenaphthene	14.254	154	50542	3.227	ng	98
18) Fluorene	15.238	166	74092	3.215	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	11328	3.661	ng	# 83
21) 4-Bromophenyl-phenylether	16.138	248	30013	3.169	ng	# 85
22) Hexachlorobenzene	16.250	284	30635	3.117	ng	99
23) Atrazine	16.424	200	26567	3.127	ng	# 93
24) Pentachlorophenol	16.597	266	16789	3.656	ng	98
25) Phenanthrene	16.982	178	123000	3.144	ng	99
26) Anthracene	17.069	178	117301	3.265	ng	100
28) Fluoranthene	19.006	202	172759	3.212	ng	100
30) Pyrene	19.368	202	177937	3.125	ng	100
32) Benzo(a)anthracene	21.125	228	185345	3.114	ng	99
33) Chrysene	21.169	228	182053	3.087	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	94826	3.061	ng	99
36) Indeno(1,2,3-cd)pyrene	25.455	276	230419	3.108	ng	100
37) Benzo(b)fluoranthene	22.660	252	197259m	3.155	ng	
38) Benzo(k)fluoranthene	22.701	252	196686	3.144	ng	# 95
39) Benzo(a)pyrene	23.209	252	173547	3.155	ng	# 93
40) Dibenzo(a,h)anthracene	25.466	278	183641	3.127	ng	98
41) Benzo(g,h,i)perylene	26.107	276	192341	3.079	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035067.D
Acq On : 13 Nov 2024 15:39
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

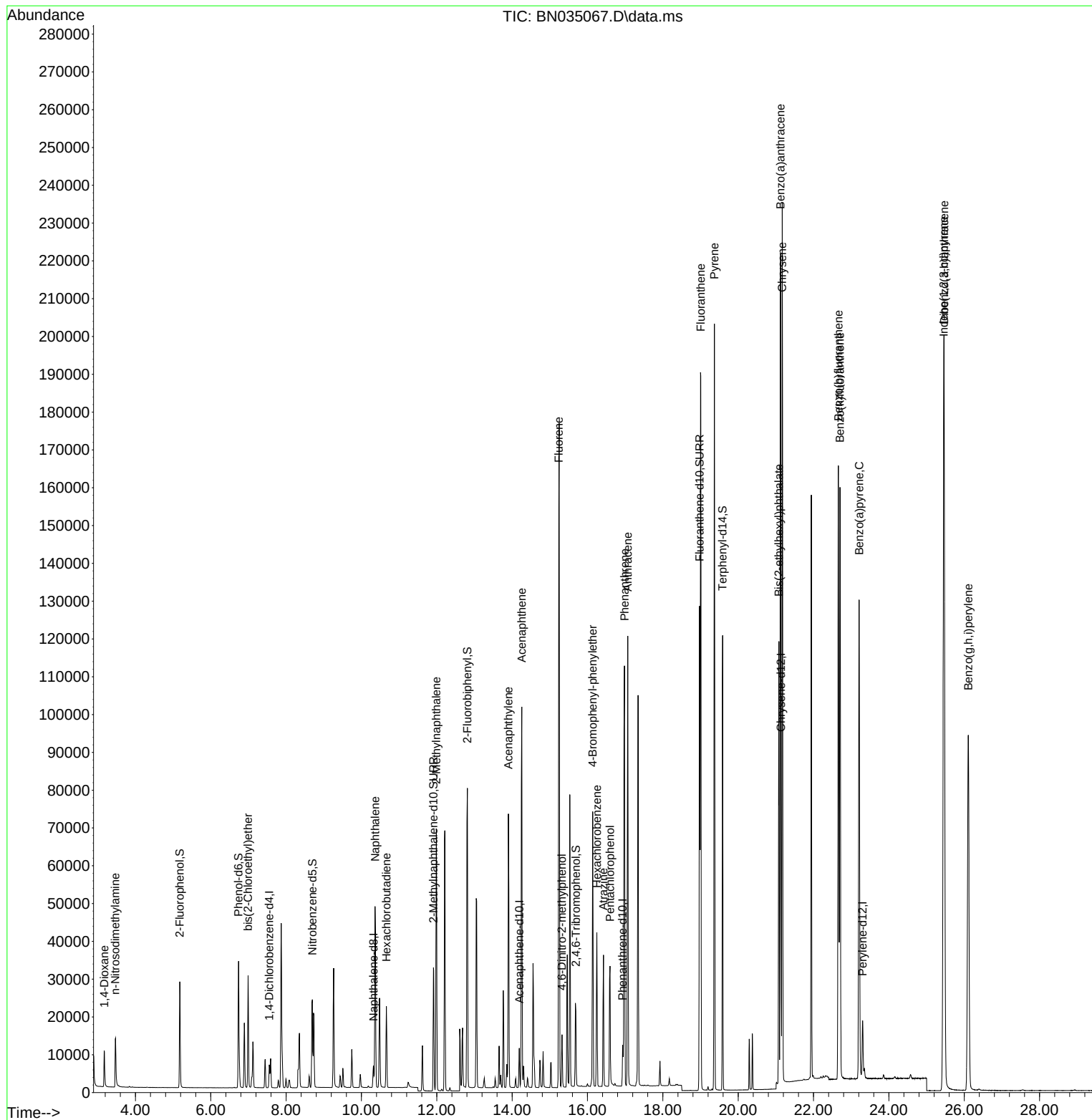
Manual Integrations

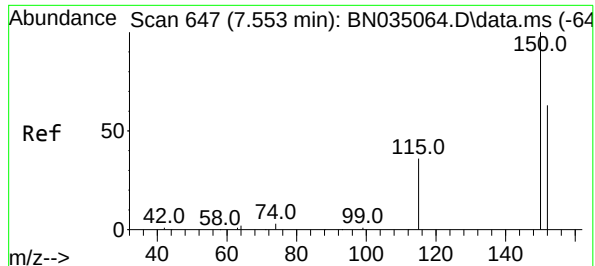
APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

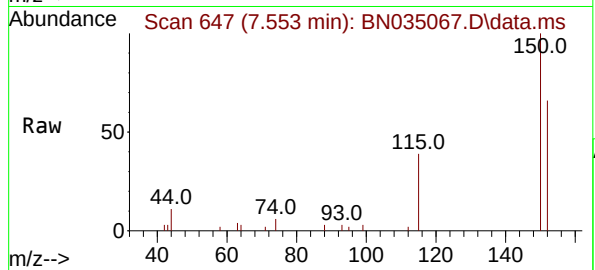
Quant Time: Nov 13 16:45:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 647
Delta R.T. 0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

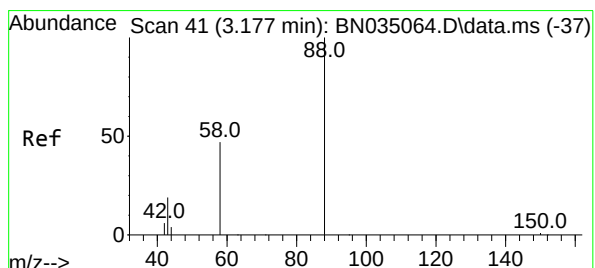
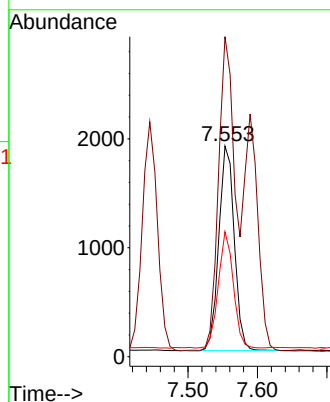
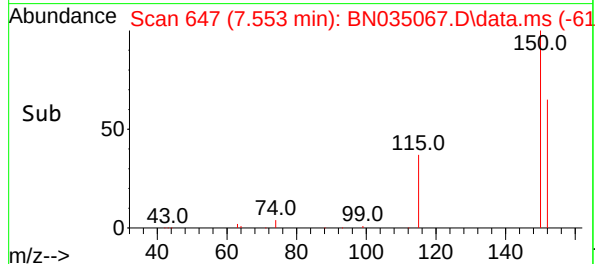
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion: 152 Resp: 2920
Ion Ratio Lower Upper
152 100
150 152.0 124.5 186.7
115 59.4 47.8 71.6

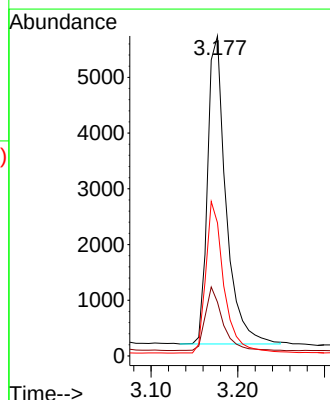
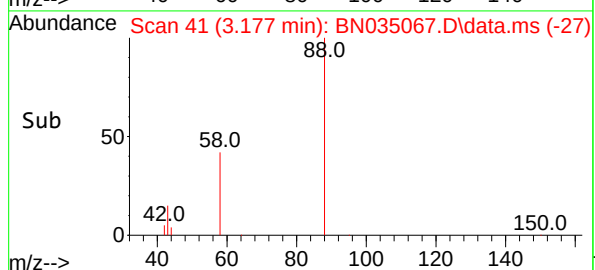
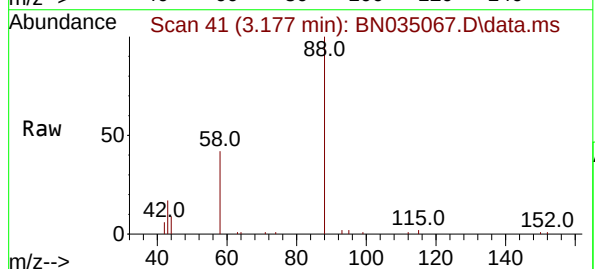
Manual Integrations
APPROVED

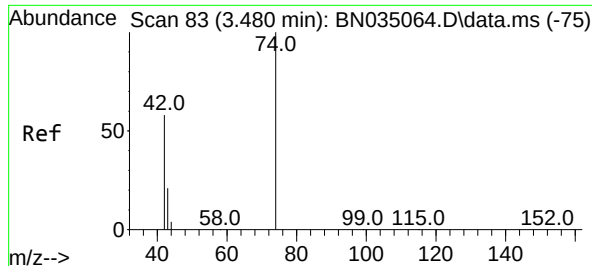
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#2
1,4-Dioxane
Concen: 3.066 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 88 Resp: 8131
Ion Ratio Lower Upper
88 100
43 19.5 16.9 25.3
58 48.4 39.0 58.4





#3
n-Nitrosodimethylamine
Concen: 3.049 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.015 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

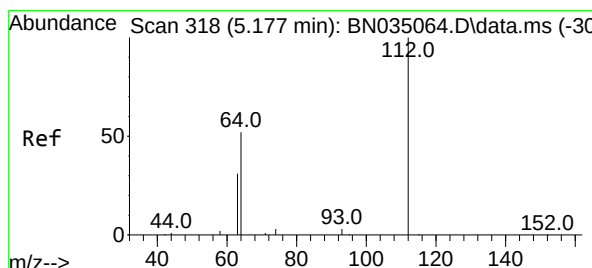
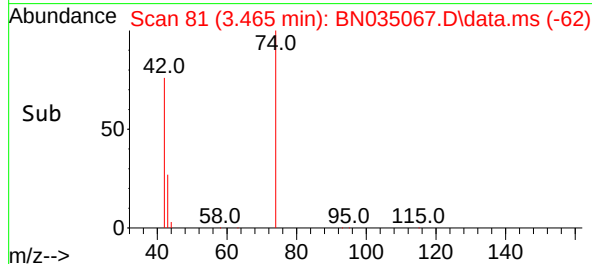
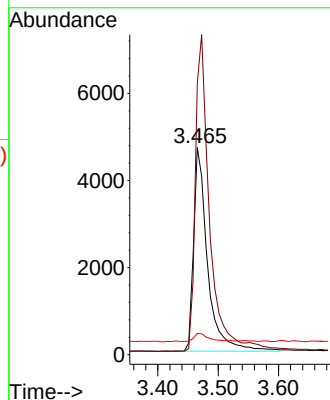
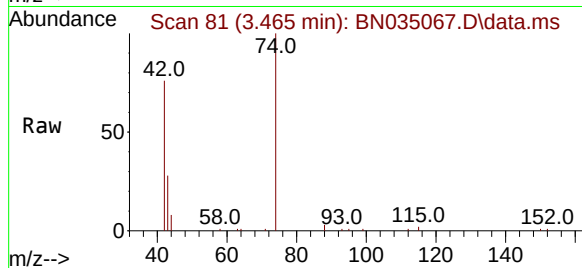
ClientSampleId :

SSTDICC3.2

Tgt Ion:	42	74	44
Ratio	100	159.4	4.7
Lower		120.8	2.9
Upper		181.2	4.3

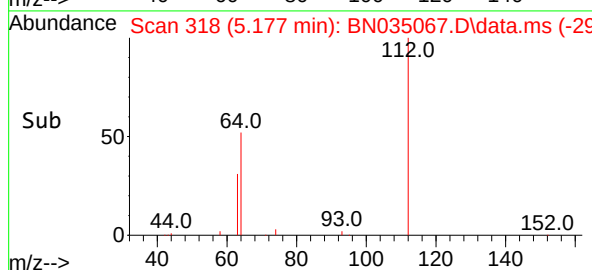
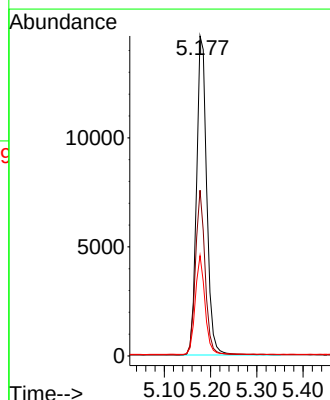
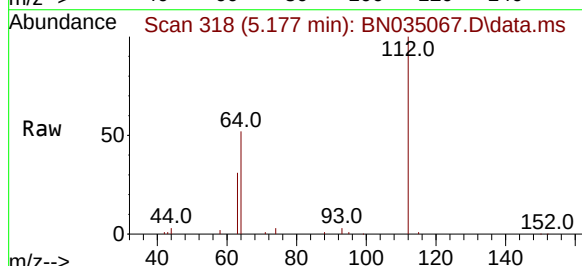
Manual Integrations
APPROVED

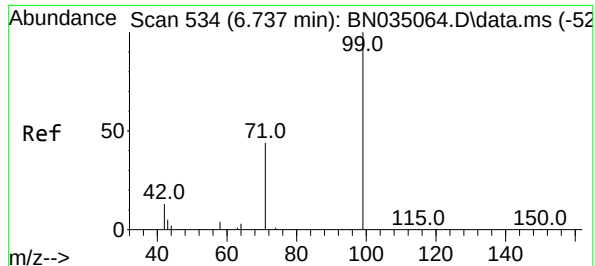
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#4
2-Fluorophenol
Concen: 3.045 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:	112	64	63
Ratio	100	48.8	29.4
Lower		39.7	23.0
Upper		59.5	34.4





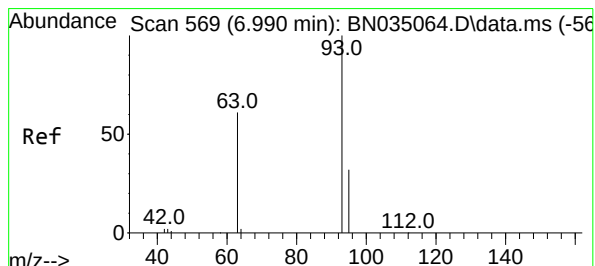
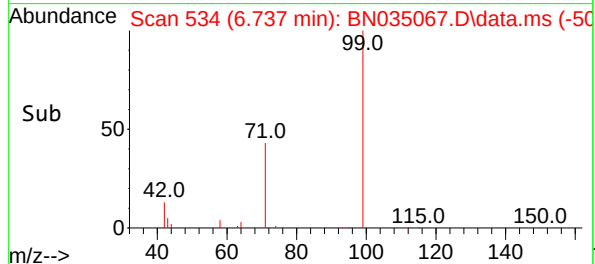
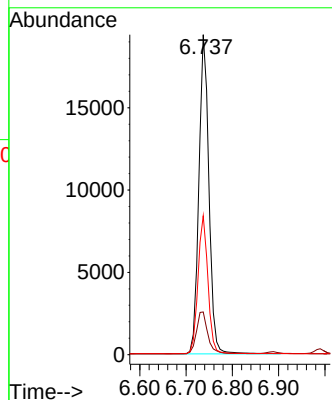
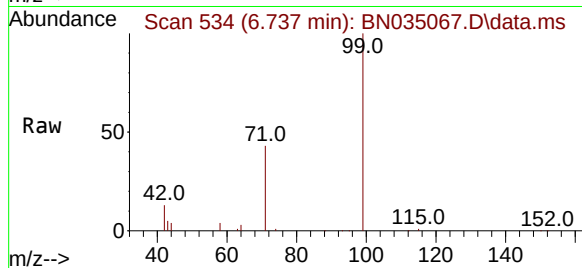
#5
Phenol-d6
Concen: 3.155 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 29328
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 43.0 34.6 51.8

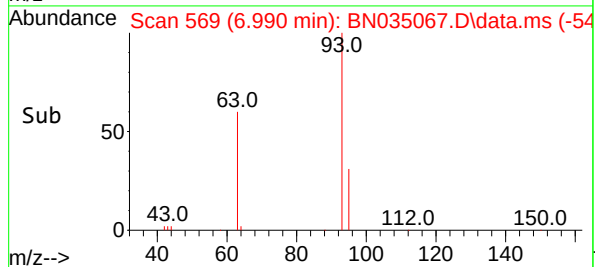
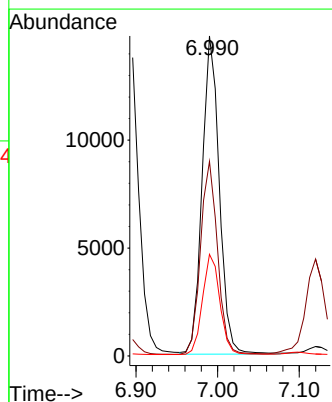
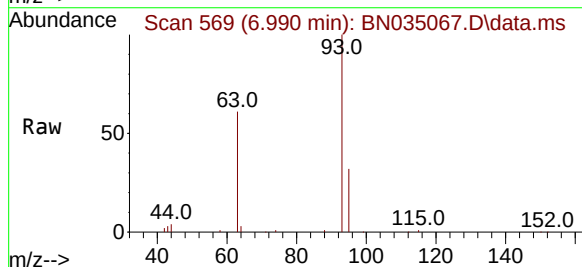
Manual Integrations
APPROVED

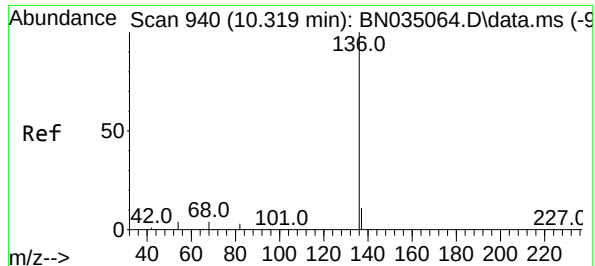
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#6
bis(2-Chloroethyl)ether
Concen: 3.099 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 93 Resp: 21619
Ion Ratio Lower Upper
93 100
63 60.2 47.4 71.2
95 31.9 26.2 39.4





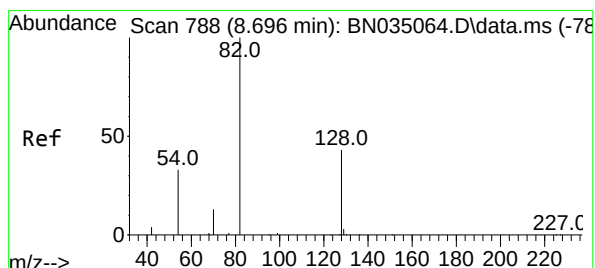
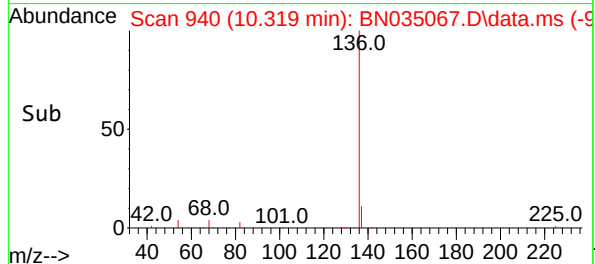
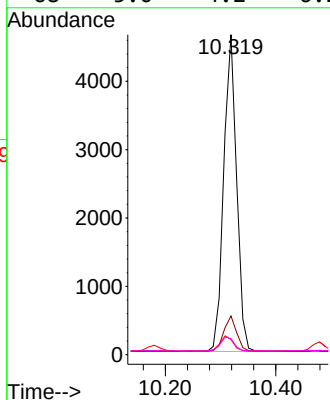
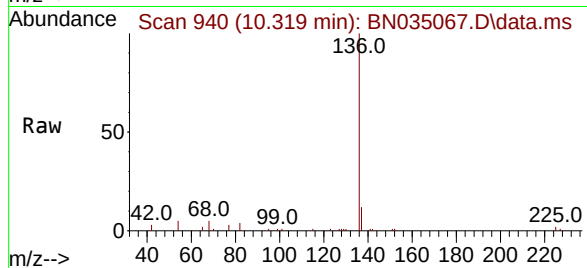
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:	136	Resp:	748
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	4.7	4.0	6.0
68	5.0	4.2	6.2

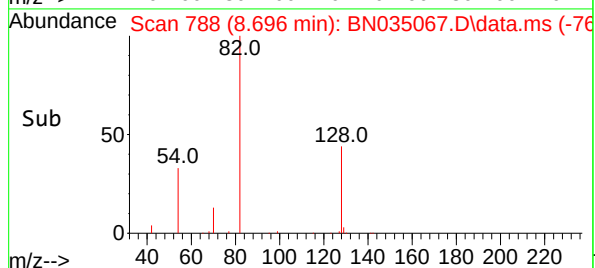
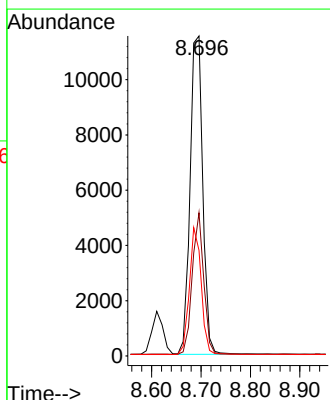
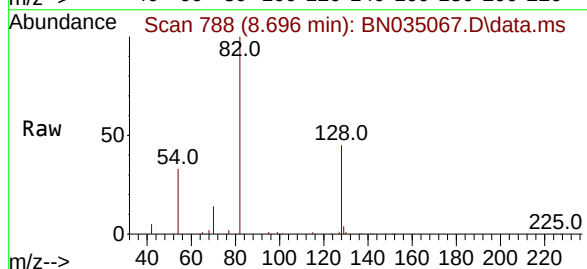
Manual Integrations
APPROVED

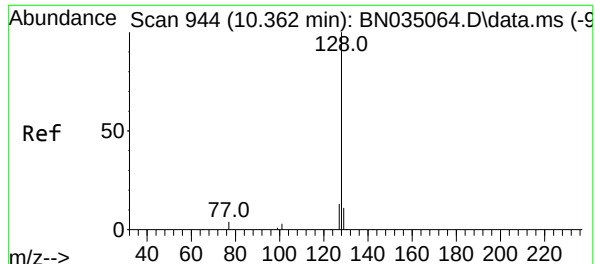
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#8
Nitrobenzene-d5
Concen: 3.167 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:	82	Resp:	20578
Ion	Ratio	Lower	Upper
82	100		
128	44.7	36.5	54.7
54	33.0	28.7	43.1





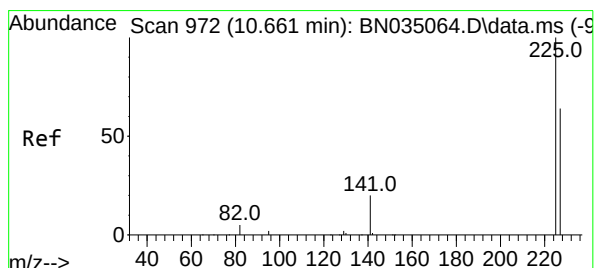
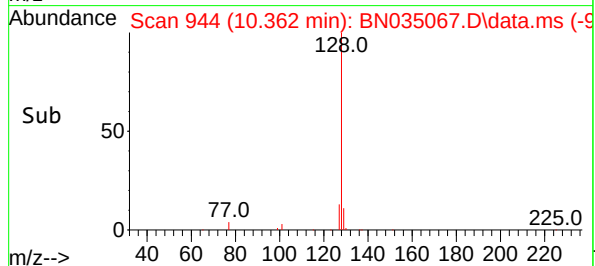
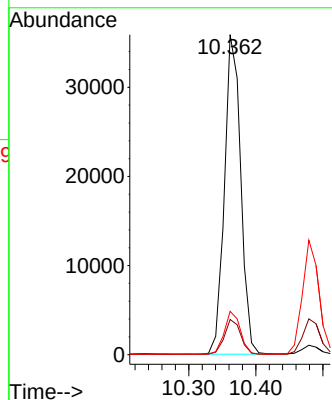
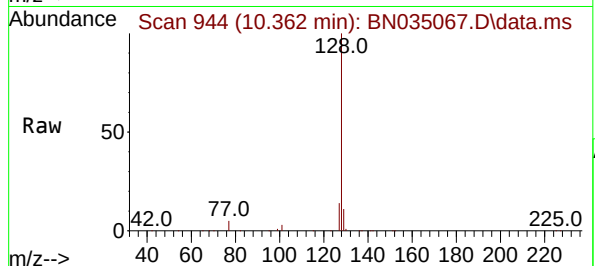
#9
Naphthalene
Concen: 3.093 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 60468
Ion Ratio Lower Upper
128 100
129 11.0 9.6 14.4
127 13.6 11.6 17.4

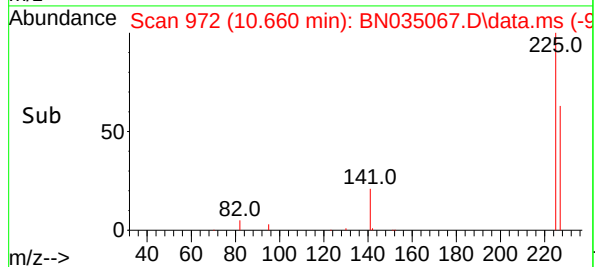
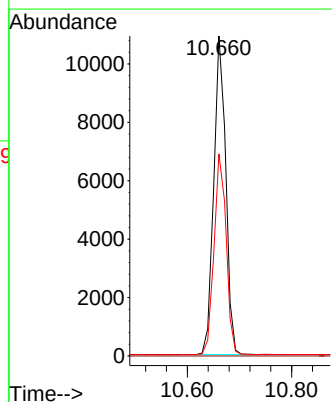
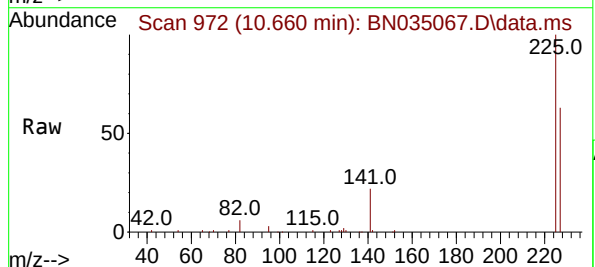
Manual Integrations
APPROVED

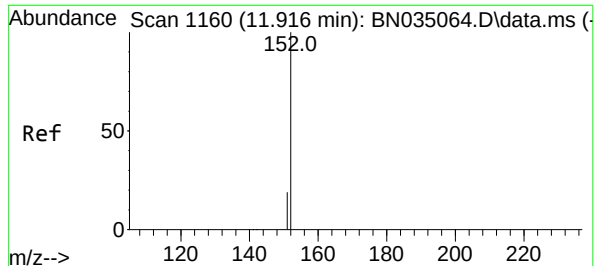
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#10
Hexachlorobutadiene
Concen: 3.019 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:225 Resp: 17300
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.5 77.3





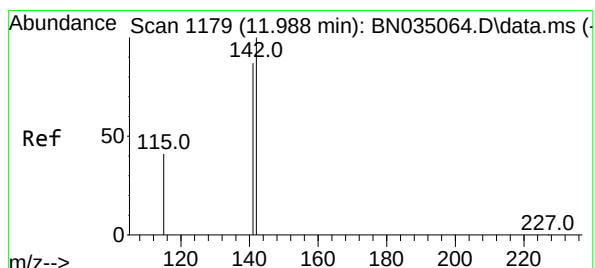
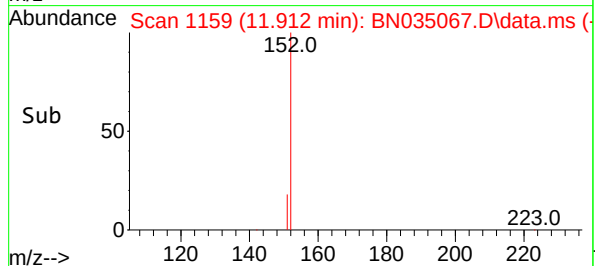
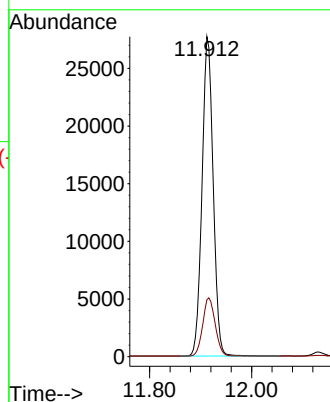
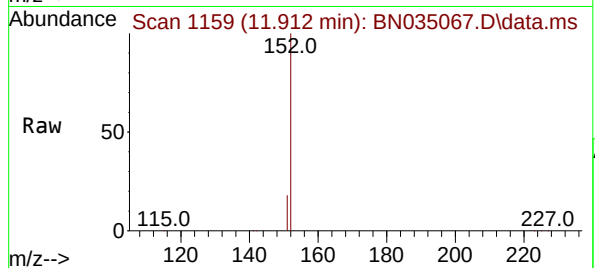
#11
2-Methylnaphthalene-d10
Concen: 3.157 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 42128
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.4

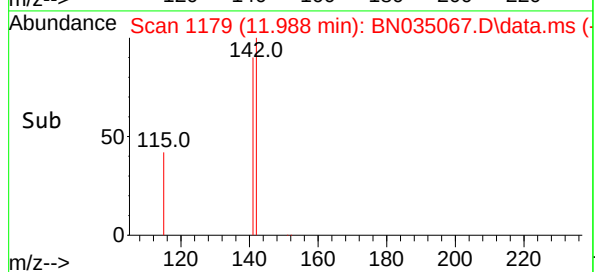
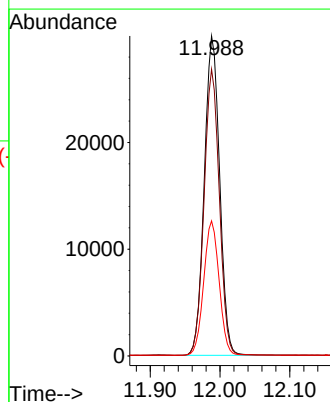
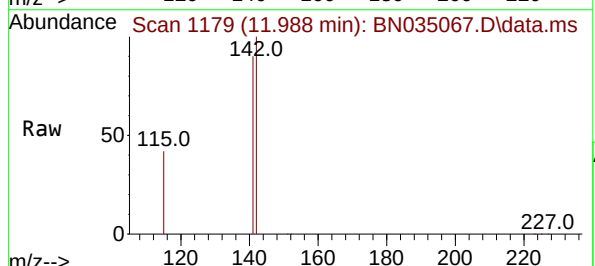
Manual Integrations
APPROVED

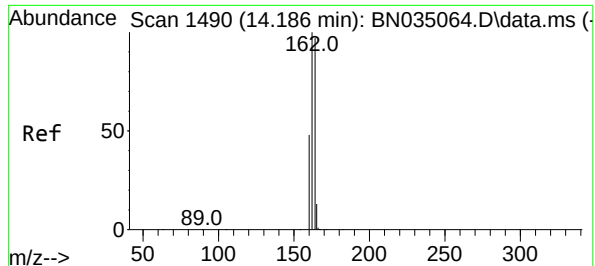
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#12
2-Methylnaphthalene
Concen: 3.176 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

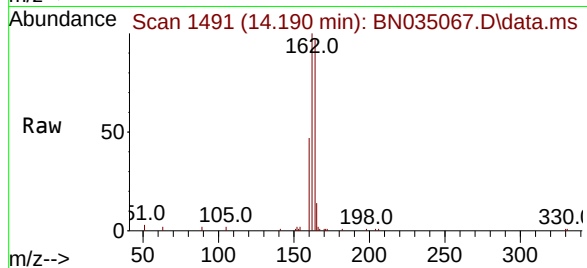
Tgt Ion:142 Resp: 45806
Ion Ratio Lower Upper
142 100
141 89.6 70.1 105.1
115 42.2 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1490
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

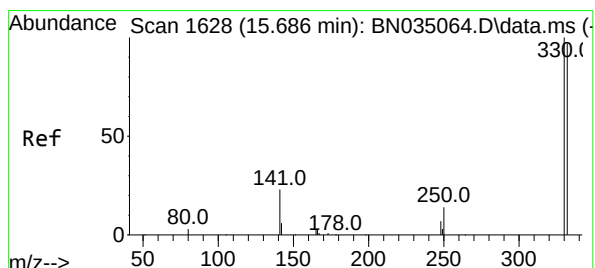
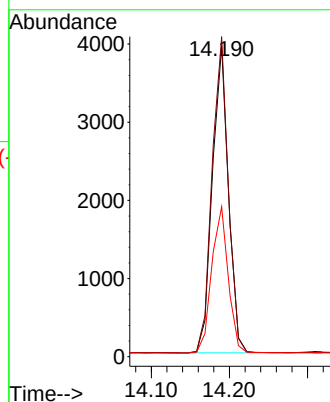
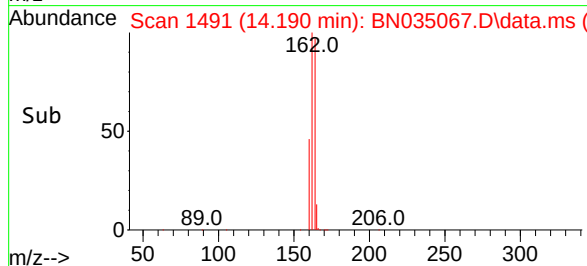
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



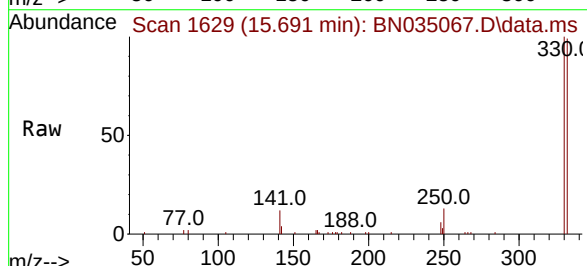
Tgt Ion:164 Resp: 559
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.2
160 48.2 40.2 60.4

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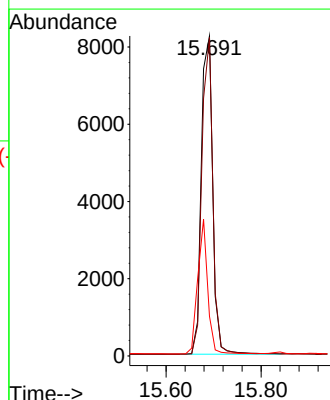
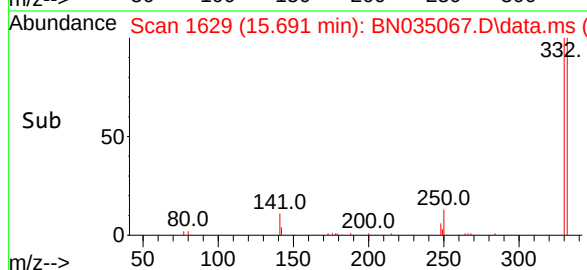
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

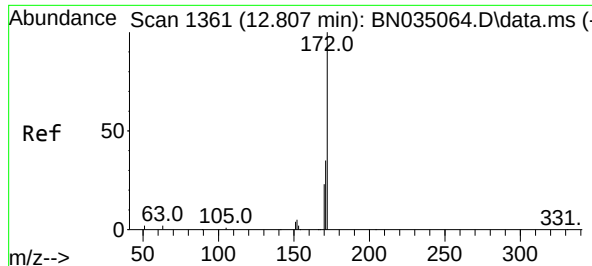


#14
2,4,6-Tribromophenol
Concen: 3.417 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39



Tgt Ion:330 Resp: 13778
Ion Ratio Lower Upper
330 100
332 95.5 76.9 115.3
141 36.6 29.6 44.4





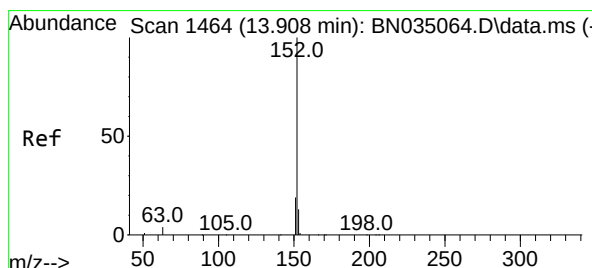
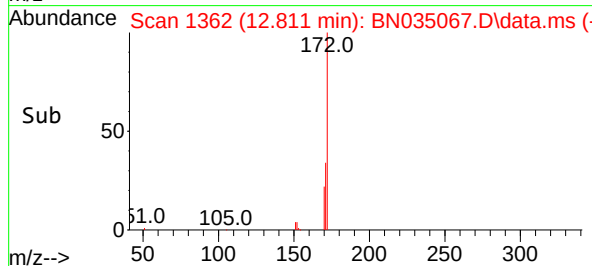
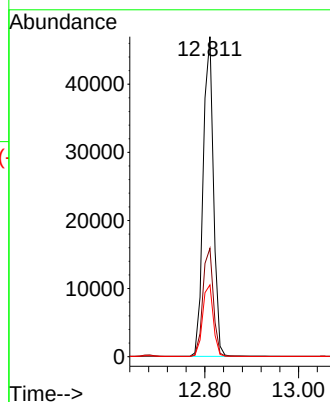
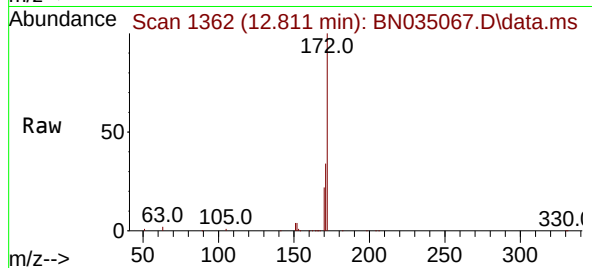
#15
2-Fluorobiphenyl
Concen: 3.150 ng
RT: 12.811 min Scan# 1361
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 7154
Ion Ratio Lower Upper
172 100
171 33.9 28.2 42.4
170 22.5 19.0 28.6

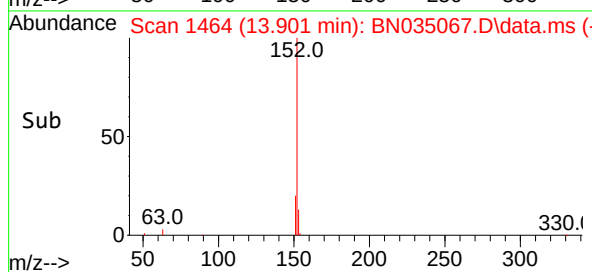
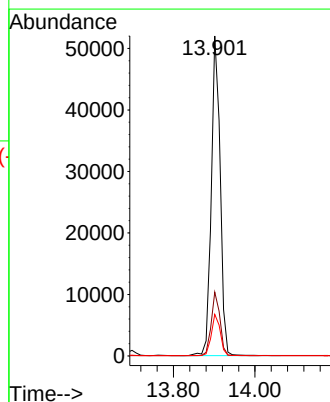
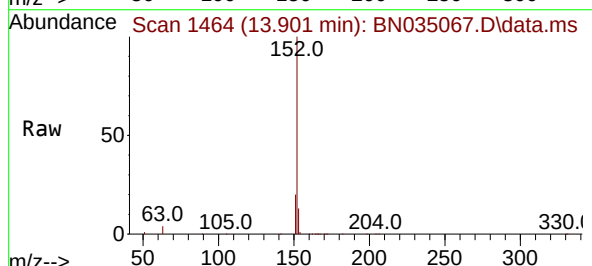
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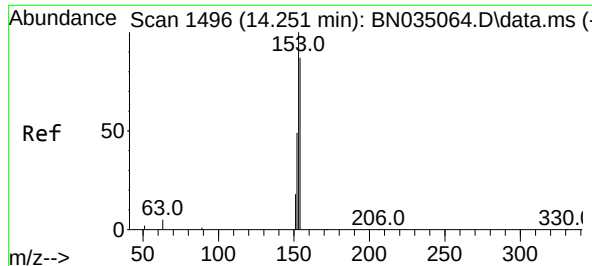
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#16
Acenaphthylene
Concen: 3.286 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

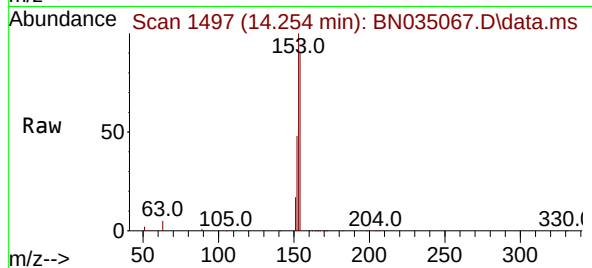
Tgt Ion:152 Resp: 78553
Ion Ratio Lower Upper
152 100
151 19.5 15.8 23.8
153 13.0 10.2 15.4





#17
Acenaphthene
Concen: 3.227 ng
RT: 14.254 min Scan# 1496
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

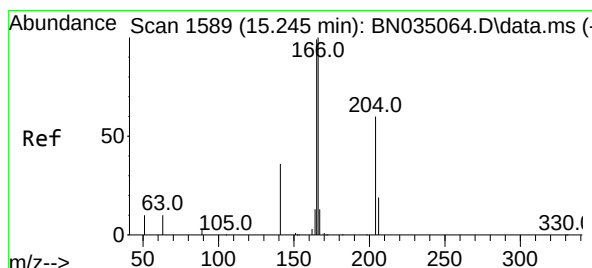
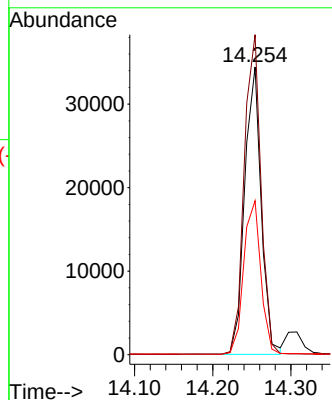
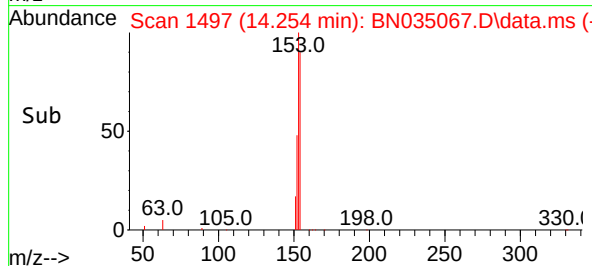
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



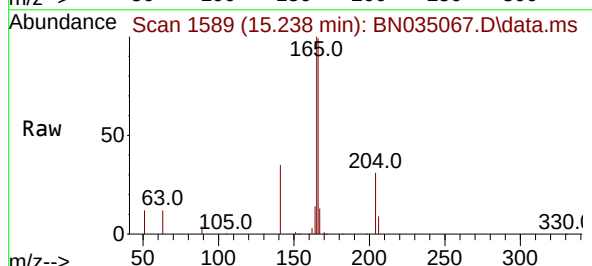
Tgt Ion:154 Resp: 5054
Ion Ratio Lower Upper
154 100
153 112.9 91.6 137.4
152 55.6 45.8 68.6

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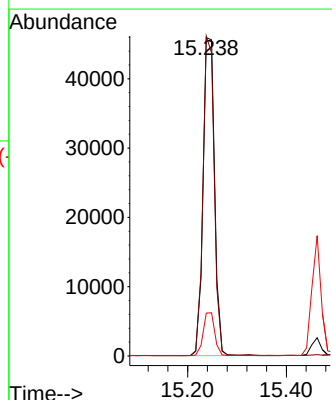
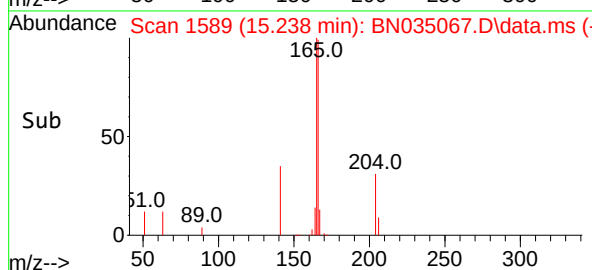
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

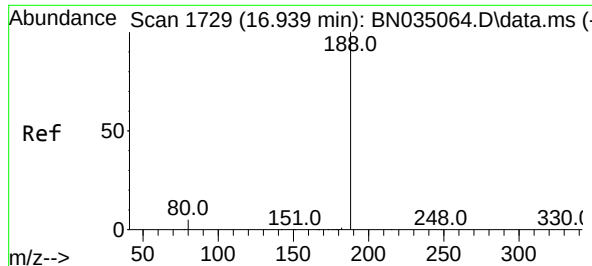


#18
Fluorene
Concen: 3.215 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39



Tgt Ion:166 Resp: 74092
Ion Ratio Lower Upper
166 100
165 97.9 79.1 118.7
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.932 min Scan# 1729

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

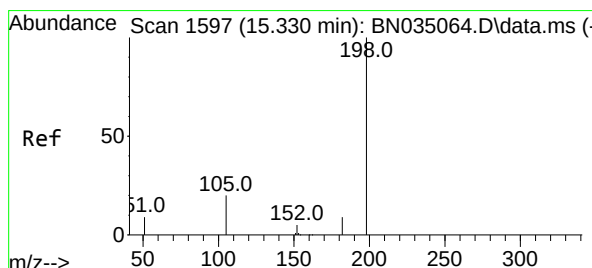
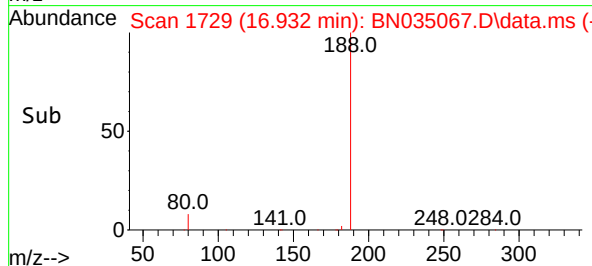
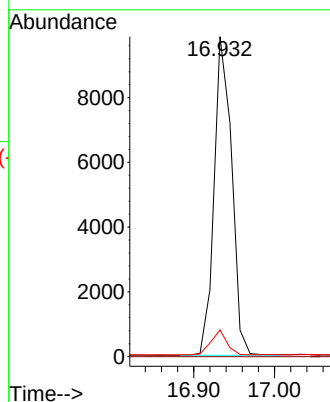
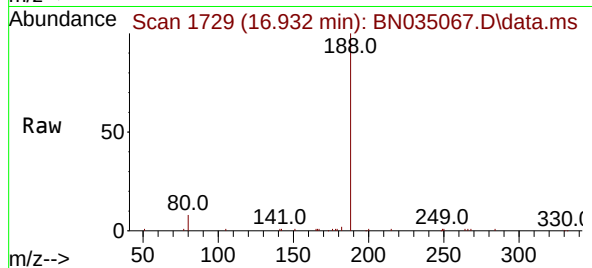
ClientSampleId :

SSTDICC3.2

Tgt Ion:188	Resp:	14864
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	8.3	4.3

Manual Integrations
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Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 3.661 ng

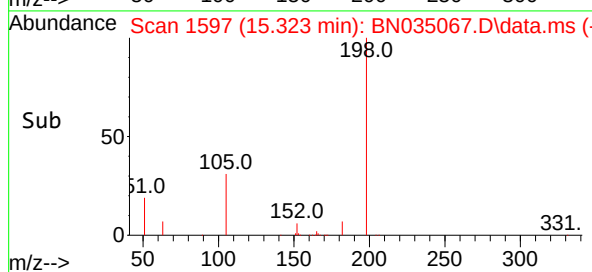
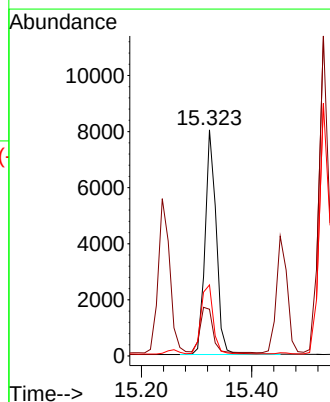
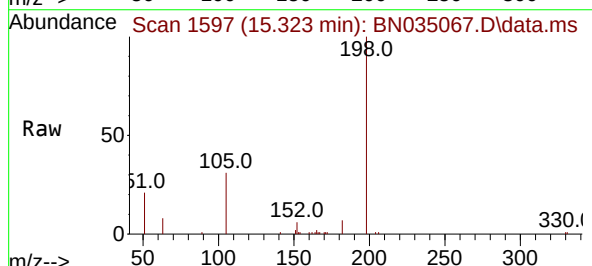
RT: 15.323 min Scan# 1597

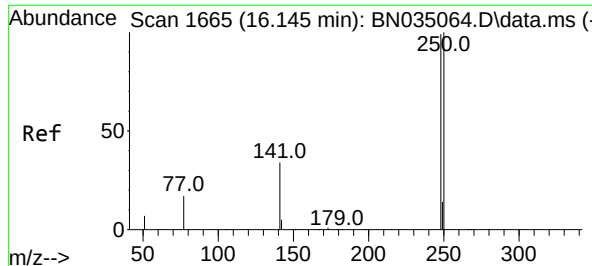
Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

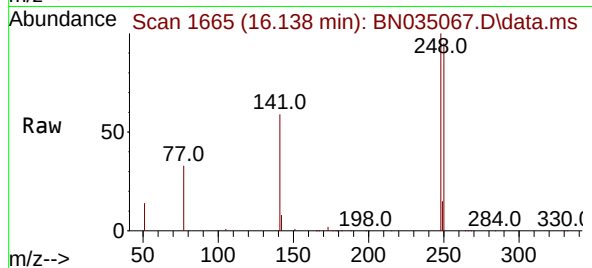
Tgt Ion:198	Resp:	11328
Ion Ratio	Lower	Upper
198	100	
51	20.6	29.9
105	31.4	44.9





#21
4-Bromophenyl-phenylether
Concen: 3.169 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

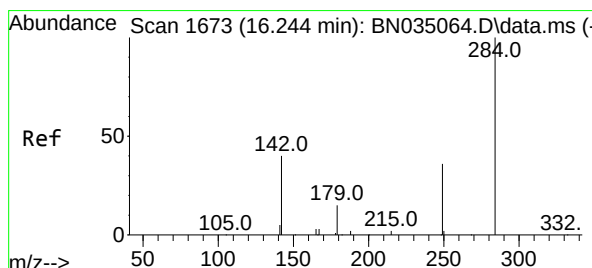
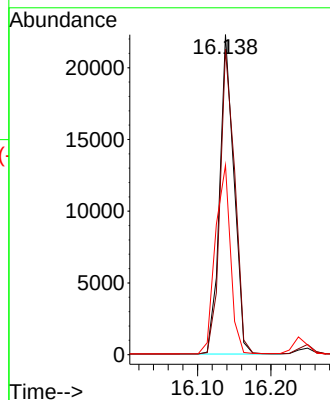
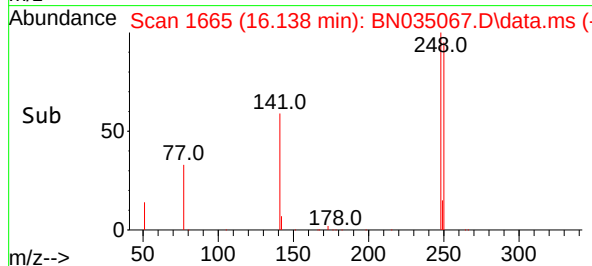
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:248 Resp: 3001
Ion Ratio Lower Upper
248 100
250 95.4 81.2 121.8
141 59.2 29.1 43.7

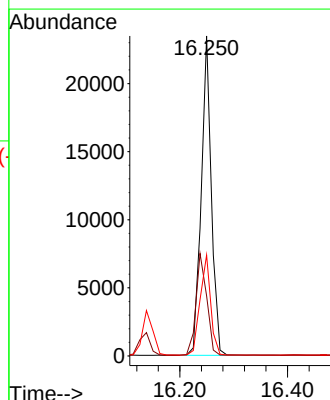
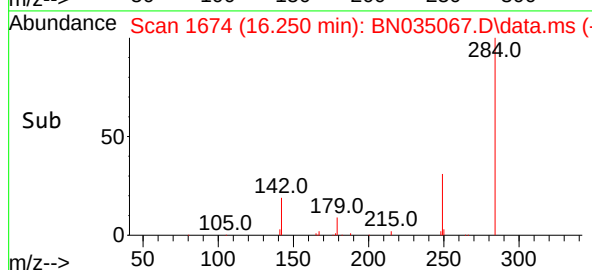
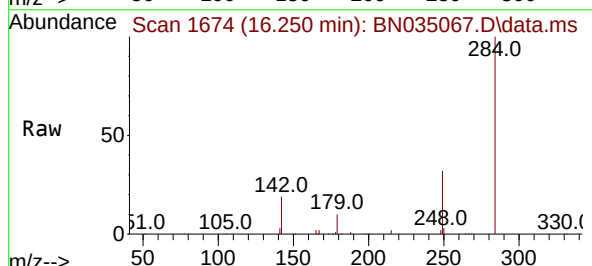
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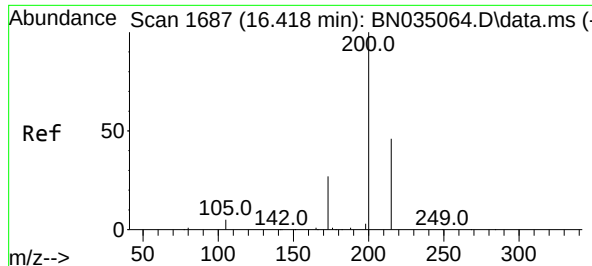
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#22
Hexachlorobenzene
Concen: 3.117 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:284 Resp: 30635
Ion Ratio Lower Upper
284 100
142 33.9 28.2 42.4
249 32.8 26.2 39.2





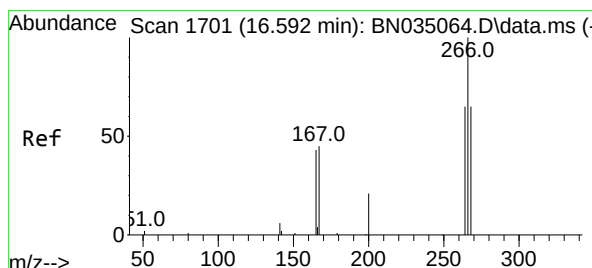
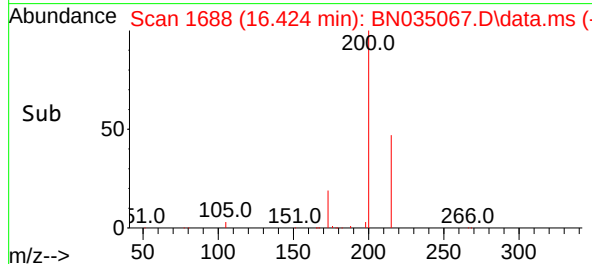
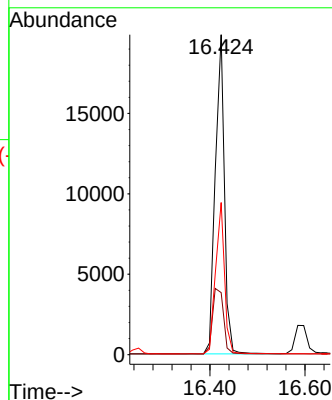
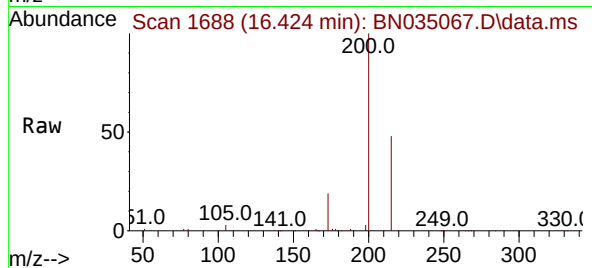
#23
Atrazine
Concen: 3.127 ng
RT: 16.424 min Scan# 1688
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 2656
Ion Ratio Lower Upper
200 100
173 19.4 22.6 33.8
215 47.5 37.8 56.6

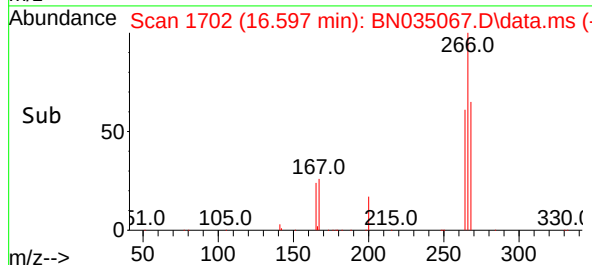
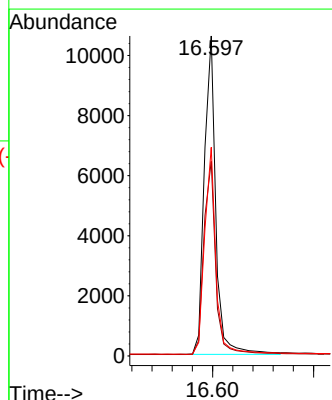
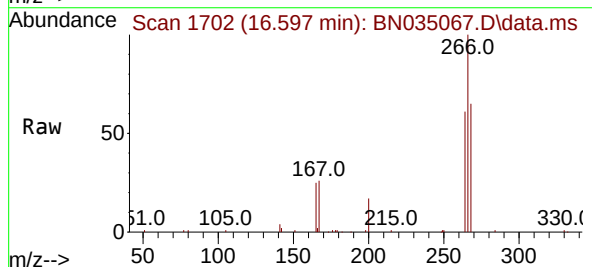
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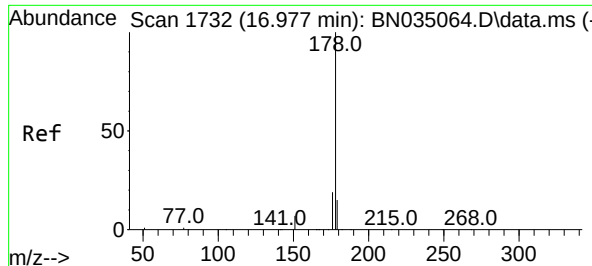
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#24
Pentachlorophenol
Concen: 3.656 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

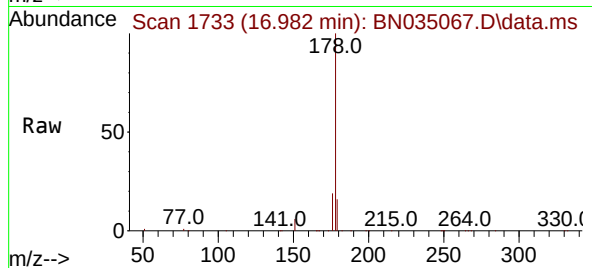
Tgt Ion:266 Resp: 16789
Ion Ratio Lower Upper
266 100
264 62.8 49.4 74.0
268 64.0 52.6 79.0





#25
Phenanthrene
Concen: 3.144 ng
RT: 16.982 min Scan# 1732
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

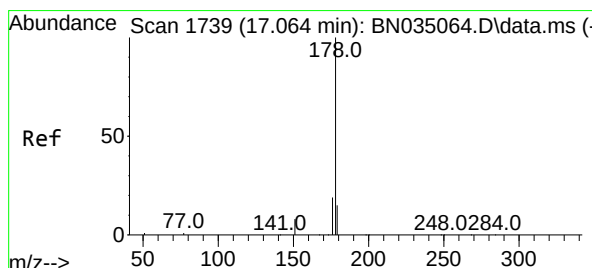
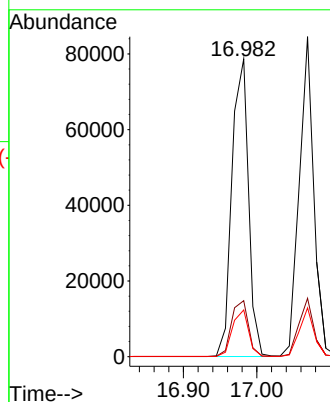
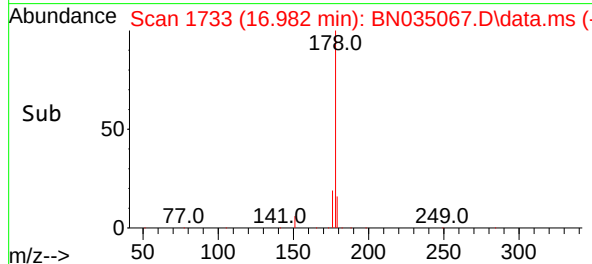
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:178 Resp: 123000
Ion Ratio Lower Upper
178 100
176 19.2 15.2 22.8
179 15.3 12.6 18.8

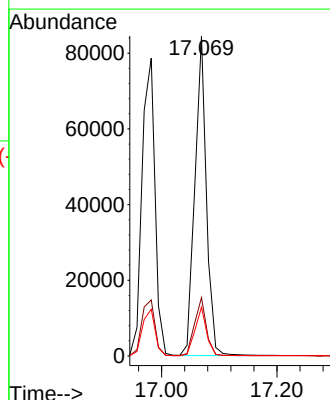
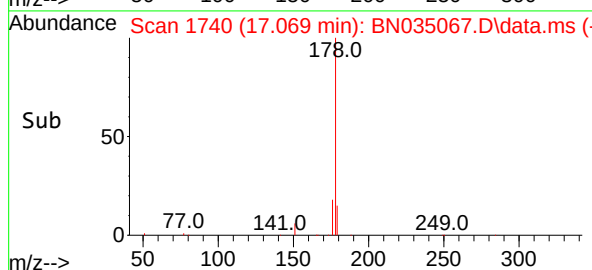
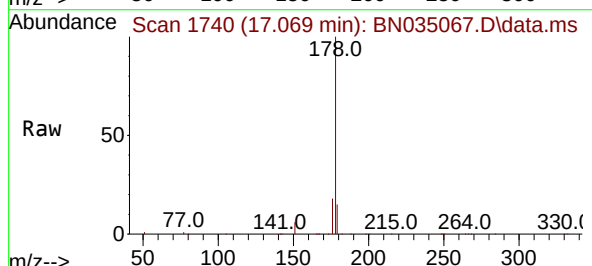
Manual Integrations
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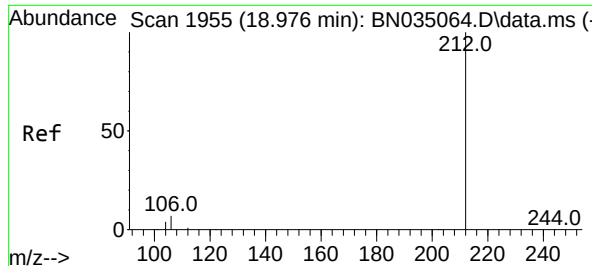
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#26
Anthracene
Concen: 3.265 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:178 Resp: 117301
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 3.191 ng

RT: 18.973 min Scan# 1955

Delta R.T. -0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:212 Resp: 14532

Ion Ratio Lower Upper

212 100

106 7.5 6.0 9.0

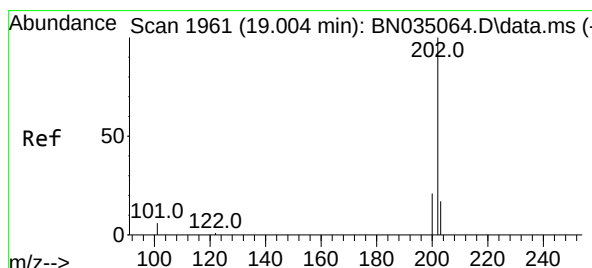
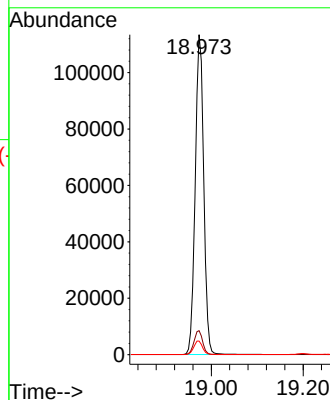
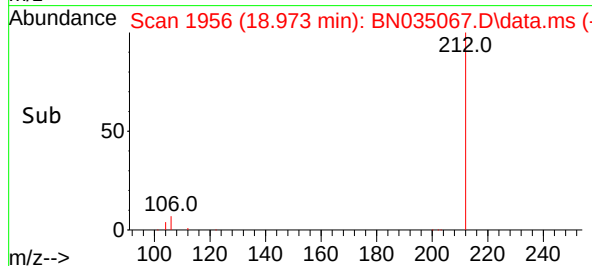
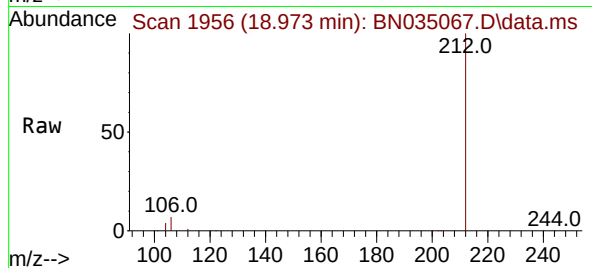
104 4.3 3.5 5.3

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#28

Fluoranthene

Concen: 3.212 ng

RT: 19.006 min Scan# 1963

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

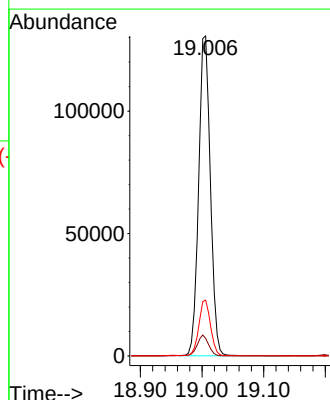
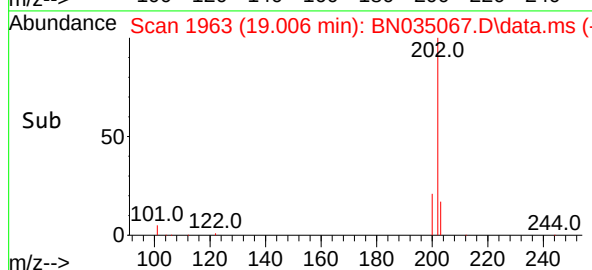
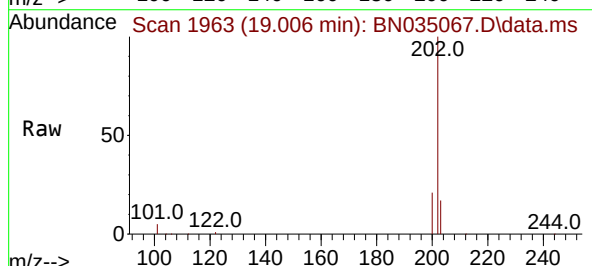
Tgt Ion:202 Resp: 172759

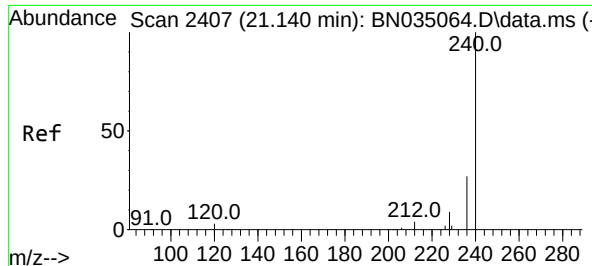
Ion Ratio Lower Upper

202 100

101 6.4 5.2 7.8

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.133 min Scan# 2408

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

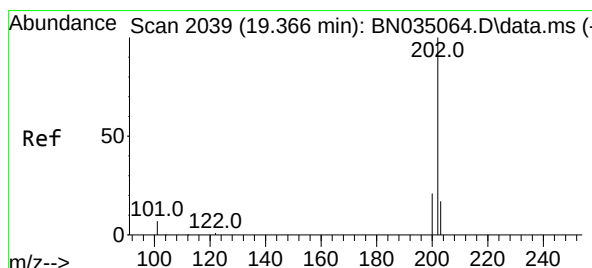
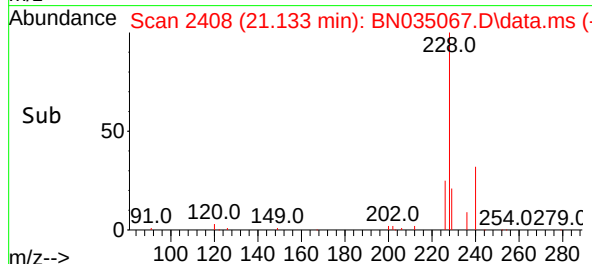
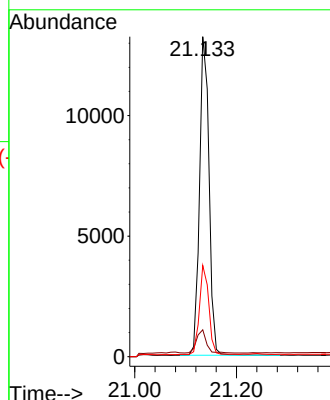
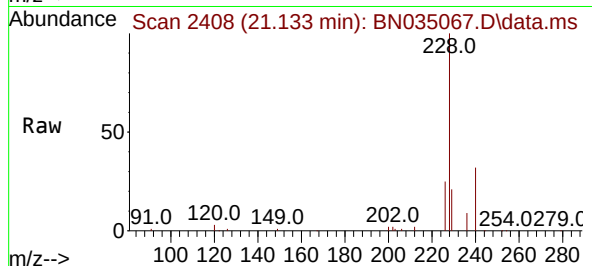
Tgt Ion:240 Resp: 17090
Ion Ratio Lower Upper
240 100
120 8.4 3.8 5.6
236 28.5 22.2 33.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#30

Pyrene

Concen: 3.125 ng

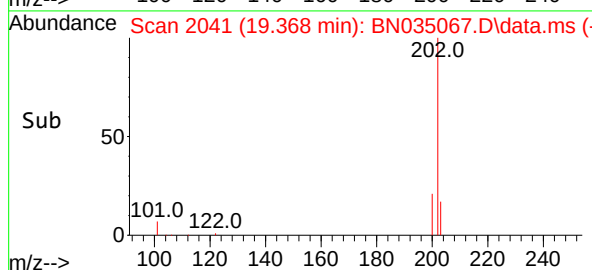
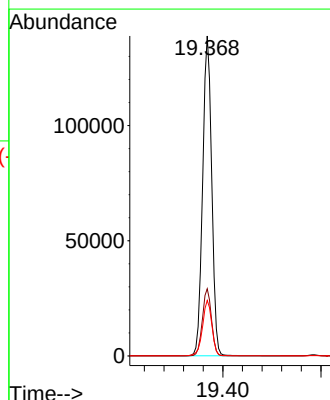
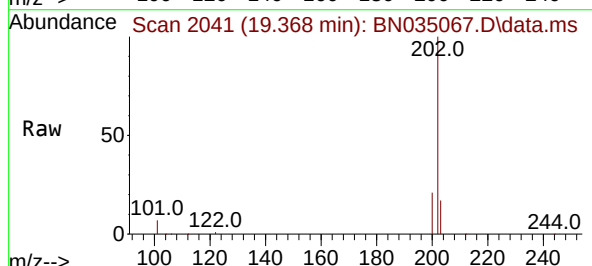
RT: 19.368 min Scan# 2041

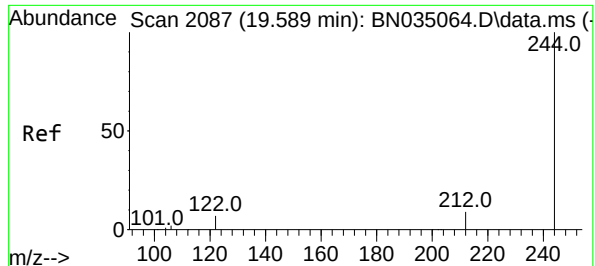
Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Tgt Ion:202 Resp: 177937
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 17.8 14.2 21.4





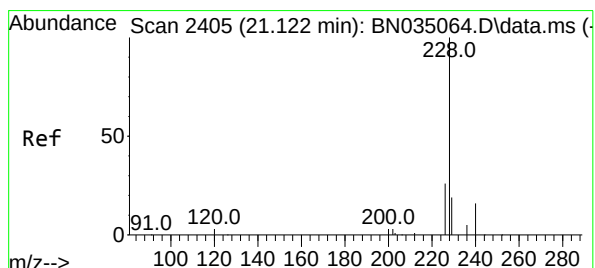
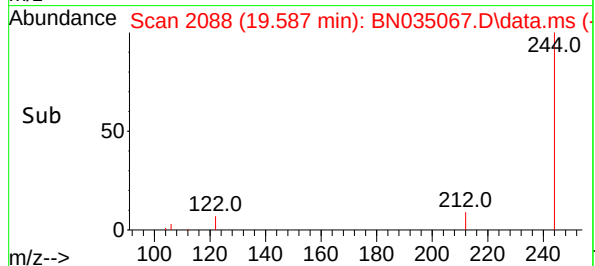
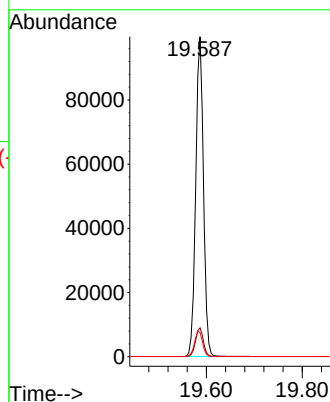
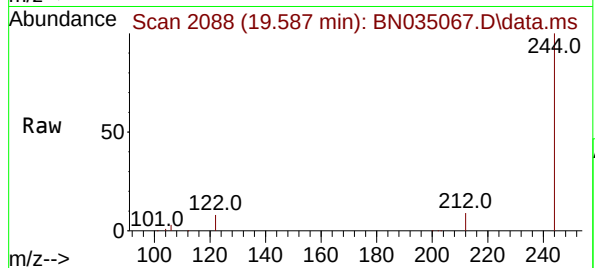
#31
Terphenyl-d14
Concen: 3.115 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 11173
Ion Ratio Lower Upper
244 100
212 9.0 7.6 11.4
122 7.6 6.1 9.1

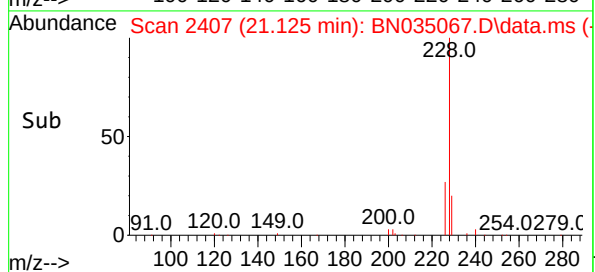
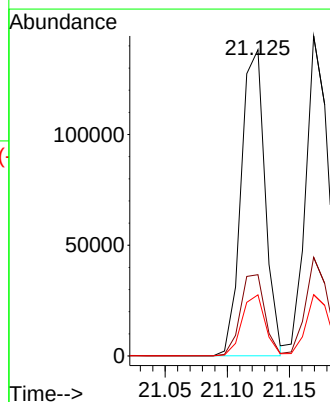
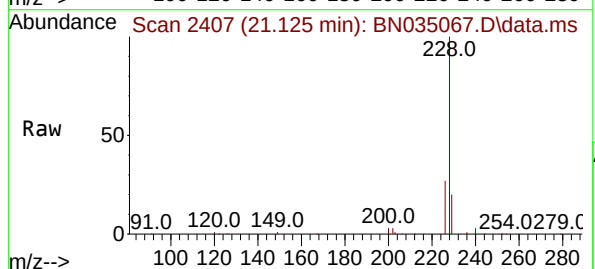
Manual Integrations
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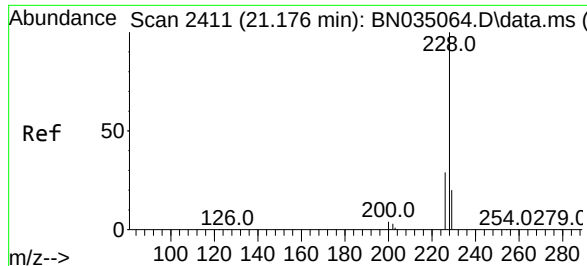
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#32
Benzo(a)anthracene
Concen: 3.114 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:228 Resp: 185345
Ion Ratio Lower Upper
228 100
226 26.5 21.4 32.0
229 20.0 15.7 23.5





#33

Chrysene

Concen: 3.087 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:228 Resp: 18205

Ion Ratio Lower Upper

228 100

226 30.9 23.7 35.5

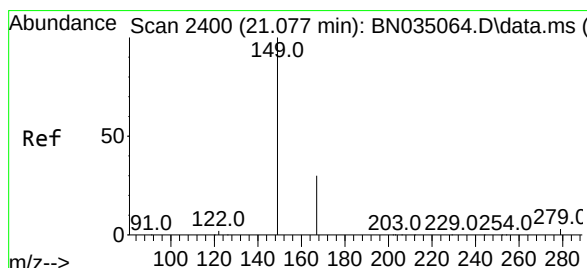
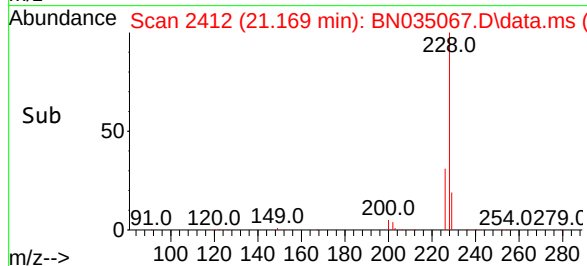
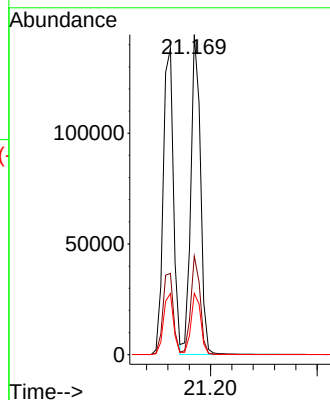
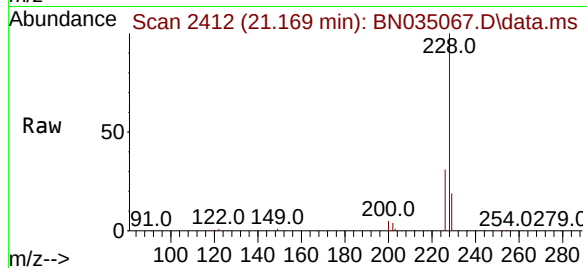
229 19.1 16.2 24.4

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.061 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

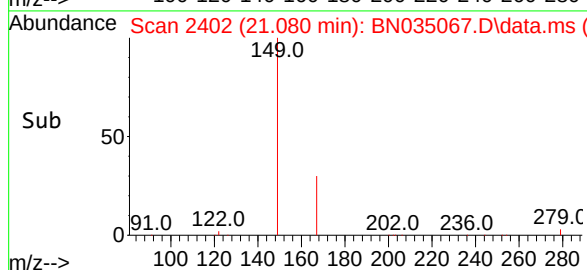
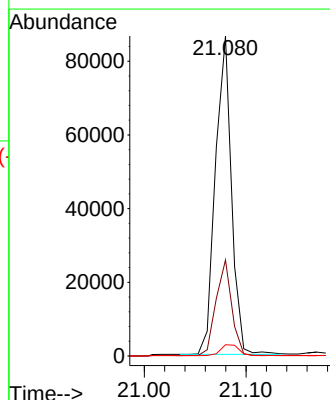
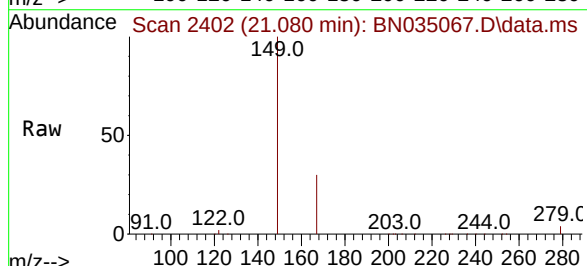
Tgt Ion:149 Resp: 94826

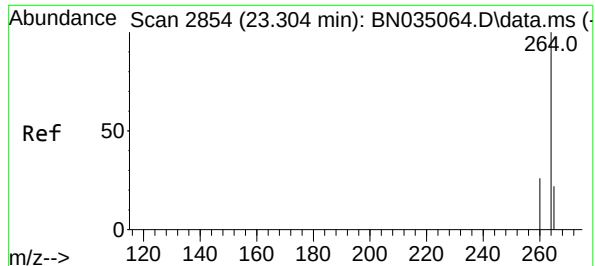
Ion Ratio Lower Upper

149 100

167 29.3 23.2 34.8

279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.303 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:264 Resp: 1858

Ion Ratio Lower Upper

264 100

260 25.5 20.9 31.3

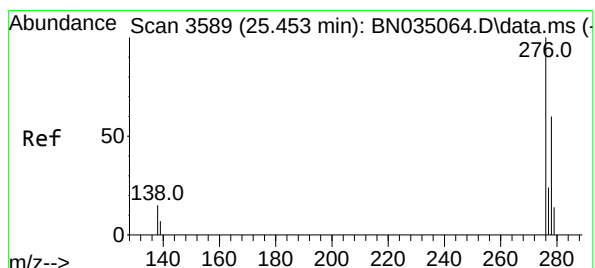
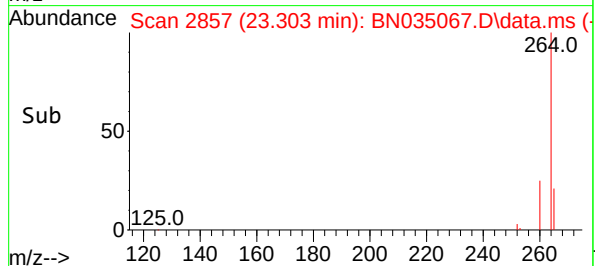
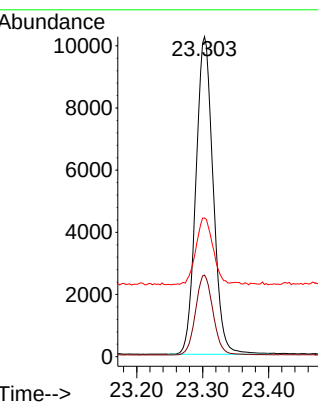
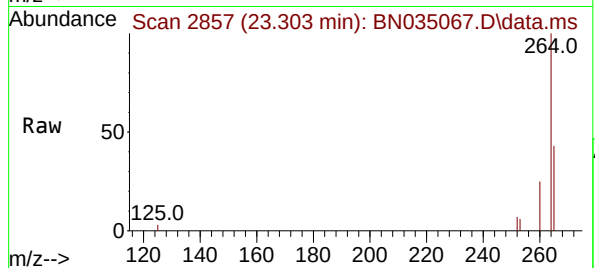
265 43.4 35.4 53.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.108 ng

RT: 25.455 min Scan# 3593

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

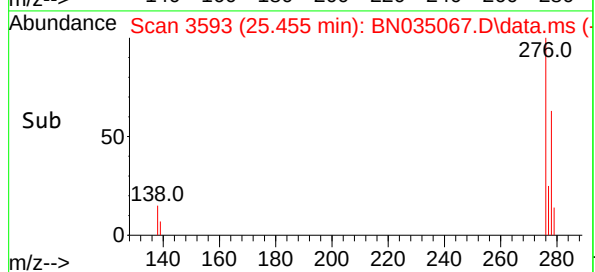
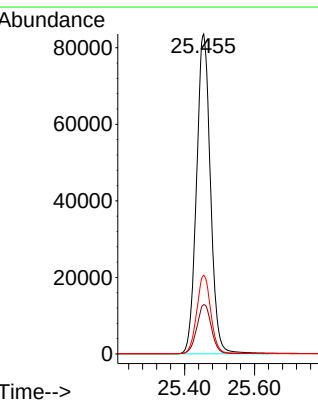
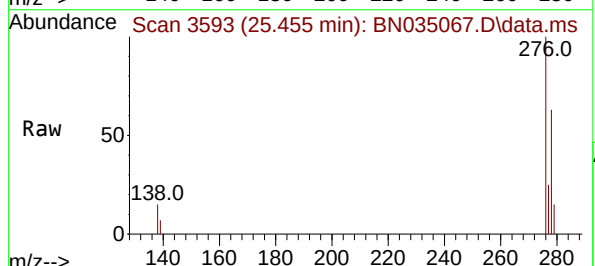
Tgt Ion:276 Resp: 230419

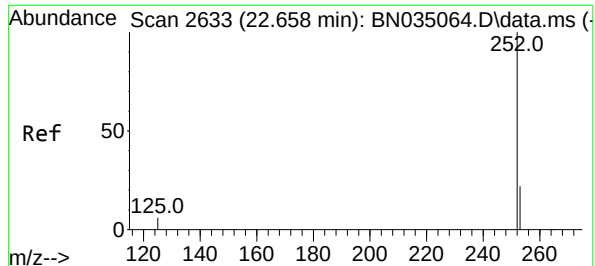
Ion Ratio Lower Upper

276 100

138 16.0 13.0 19.4

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 3.155 ng m

RT: 22.660 min Scan# 2637

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:252 Resp: 197259

Ion Ratio Lower Upper

252 100

253 22.0 19.3 28.9

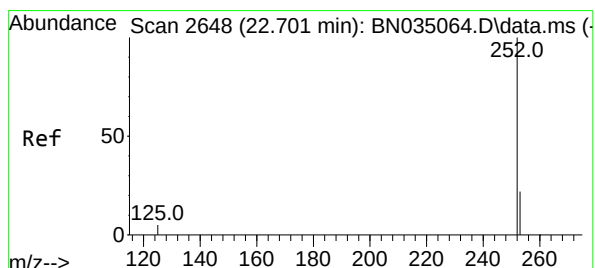
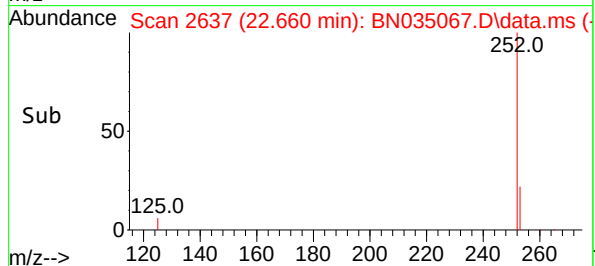
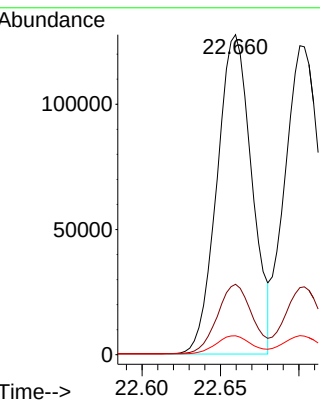
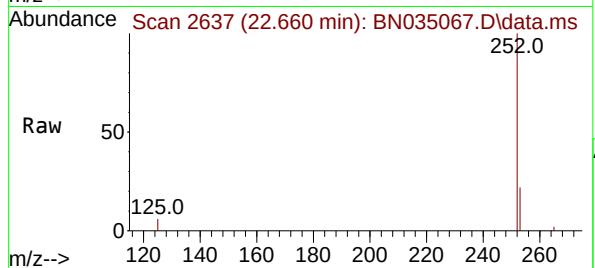
125 5.9 6.2 9.2

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#38

Benzo(k)fluoranthene

Concen: 3.144 ng

RT: 22.701 min Scan# 2651

Delta R.T. -0.001 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

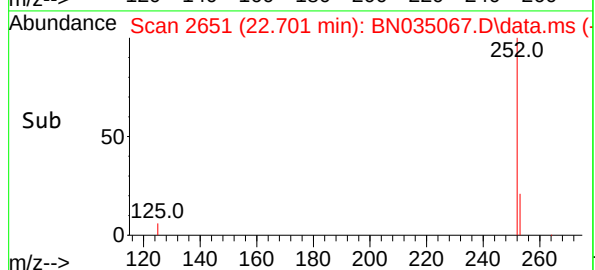
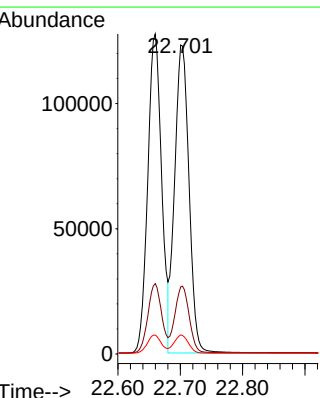
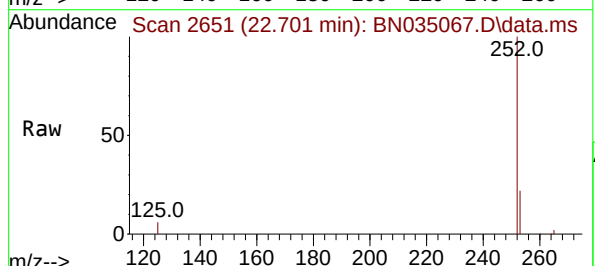
Tgt Ion:252 Resp: 196686

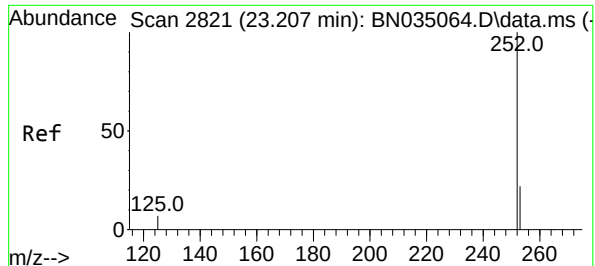
Ion Ratio Lower Upper

252 100

253 21.7 19.5 29.3

125 6.2 6.5 9.7





#39

Benzo(a)pyrene

Concen: 3.155 ng

RT: 23.209 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:252 Resp: 17354

Ion Ratio Lower Upper

252 100

253 22.0 20.1 30.1

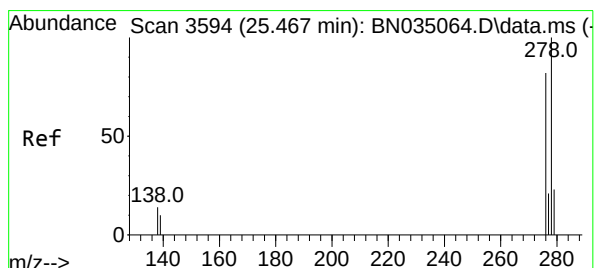
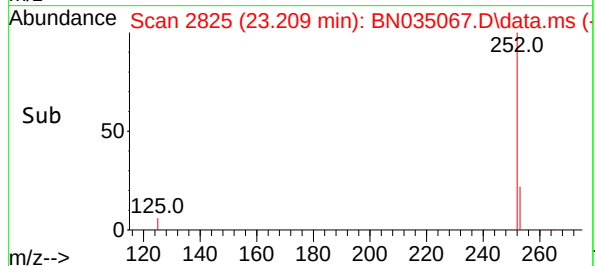
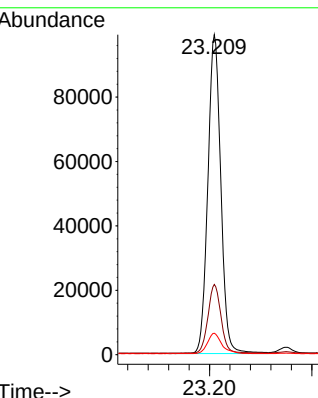
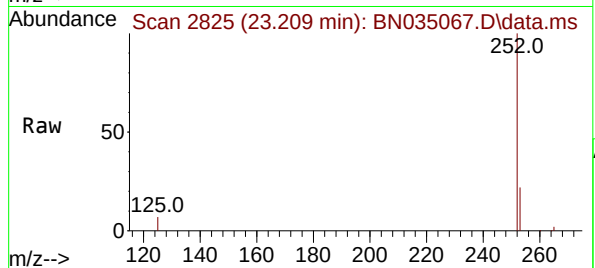
125 6.7 7.5 11.3

Manual Integrations

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Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#40

Dibenzo(a,h)anthracene

Concen: 3.127 ng

RT: 25.466 min Scan# 3597

Delta R.T. -0.001 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

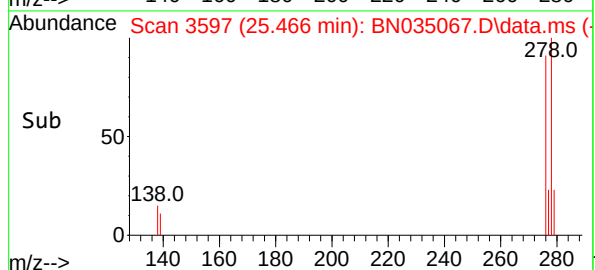
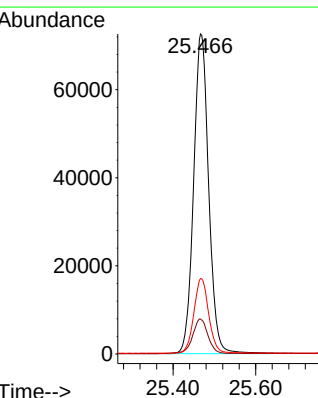
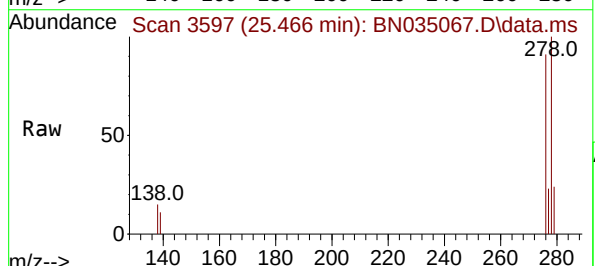
Tgt Ion:278 Resp: 183641

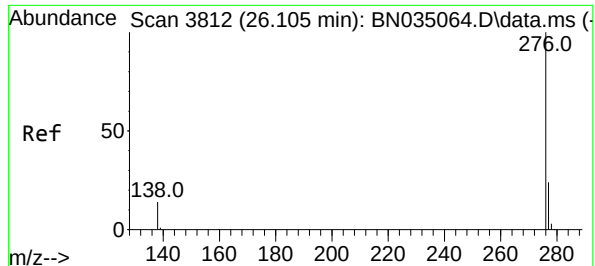
Ion Ratio Lower Upper

278 100

139 10.9 9.3 13.9

279 23.6 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 3.079 ng

RT: 26.107 min Scan# 3812

Delta R.T. 0.002 min

Lab File: BN035067.D

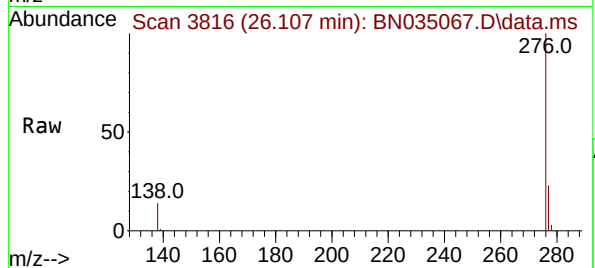
Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:276 Resp: 19234

Ion Ratio Lower Upper

276 100

277 23.4 19.9 29.9

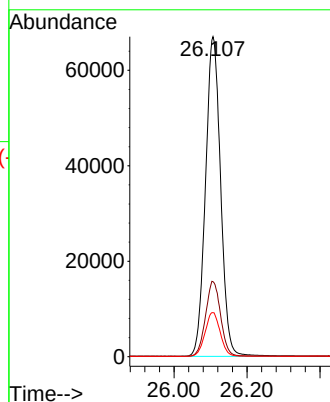
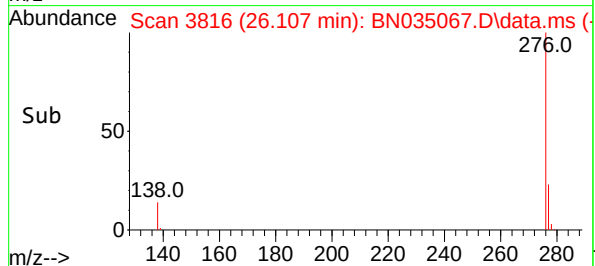
138 13.8 11.6 17.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035068.D
Acq On : 13 Nov 2024 16:15
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 13 16:45:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

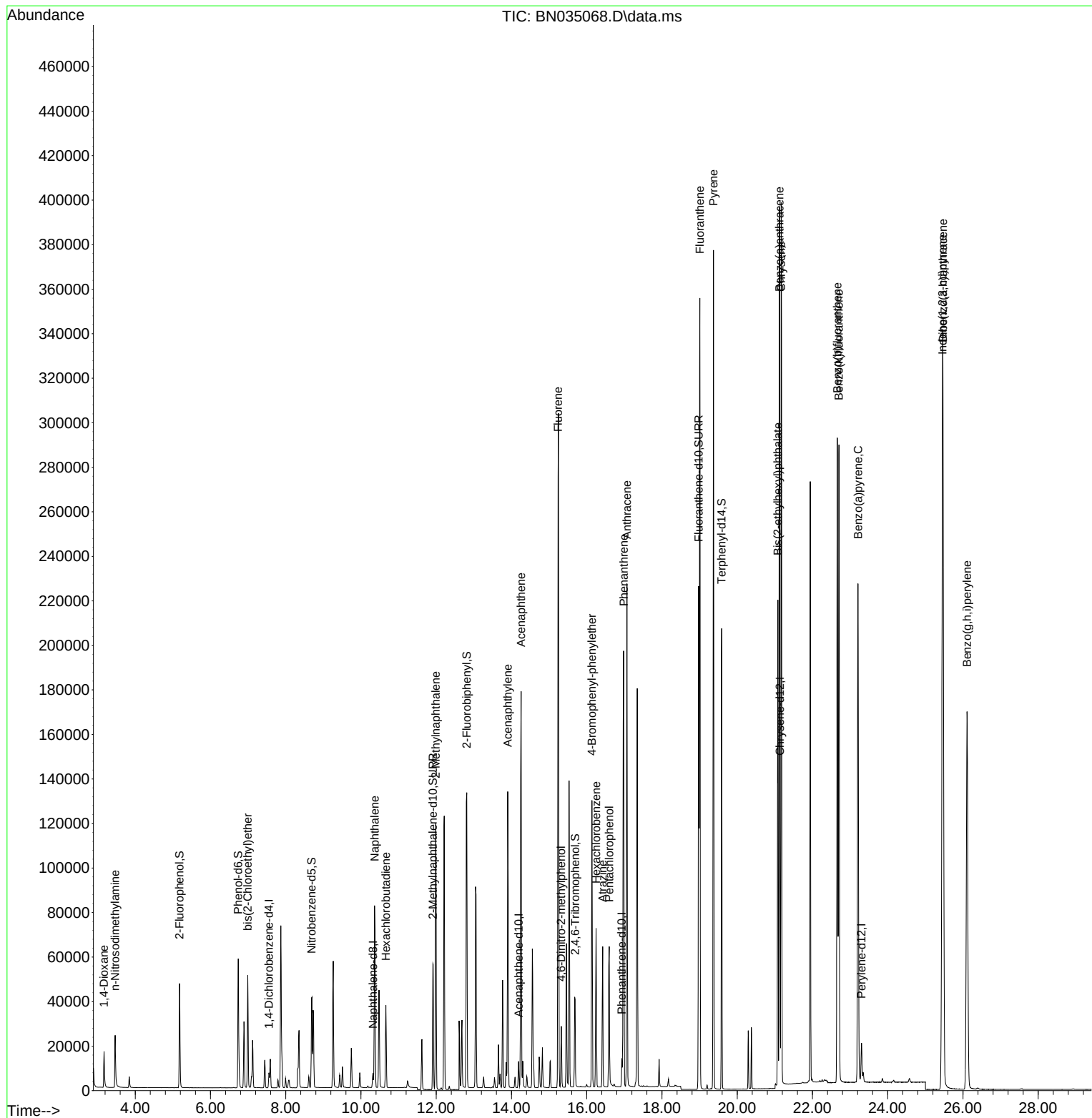
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	3163	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	8134	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	6225	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	16809	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	19216	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	20465	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	37993	4.732	ng	0.00
5) Phenol-d6	6.737	99	50689	5.035	ng	0.00
8) Nitrobenzene-d5	8.685	82	35941	5.091	ng	-0.01
11) 2-Methylnaphthalene-d10	11.912	152	74330	5.128	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	25763	5.740	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	125581	4.967	ng	0.00
27) Fluoranthene-d10	18.973	212	260540	5.059	ng	0.00
31) Terphenyl-d14	19.587	244	199585	4.950	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.169	88	13024	4.533	ng	99
3) n-Nitrosodimethylamine	3.465	42	12737	4.774	ng	# 94
6) bis(2-Chloroethyl)ether	6.990	93	36728	4.860	ng	99
9) Naphthalene	10.361	128	104370	4.914	ng	97
10) Hexachlorobutadiene	10.660	225	29615	4.757	ng	# 99
12) 2-Methylnaphthalene	11.988	142	80182	5.118	ng	98
16) Acenaphthylene	13.901	152	139668	5.250	ng	100
17) Acenaphthene	14.254	154	89181	5.115	ng	98
18) Fluorene	15.238	166	129071	5.033	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	22059	6.304	ng	# 82
21) 4-Bromophenyl-phenylether	16.138	248	52850	4.935	ng	# 85
22) Hexachlorobenzene	16.250	284	54126	4.870	ng	99
23) Atrazine	16.423	200	47349	4.928	ng	# 93
24) Pentachlorophenol	16.597	266	32339	6.228	ng	98
25) Phenanthrene	16.982	178	217781	4.923	ng	99
26) Anthracene	17.069	178	210303	5.176	ng	100
28) Fluoranthene	19.006	202	305283	5.019	ng	100
30) Pyrene	19.368	202	316225	4.942	ng	100
32) Benzo(a)anthracene	21.124	228	335437	5.013	ng	100
33) Chrysene	21.169	228	317200	4.786	ng	97
34) Bis(2-ethylhexyl)phtha...	21.080	149	178320	5.121	ng	99
36) Indeno(1,2,3-cd)pyrene	25.455	276	405401	4.966	ng	100
37) Benzo(b)fluoranthene	22.660	252	347639	5.049	ng	# 95
38) Benzo(k)fluoranthene	22.703	252	347310	5.041	ng	# 95
39) Benzo(a)pyrene	23.209	252	308664	5.094	ng	# 93
40) Dibenzo(a,h)anthracene	25.469	278	323522	5.002	ng	98
41) Benzo(g,h,i)perylene	26.107	276	339655	4.937	ng	98

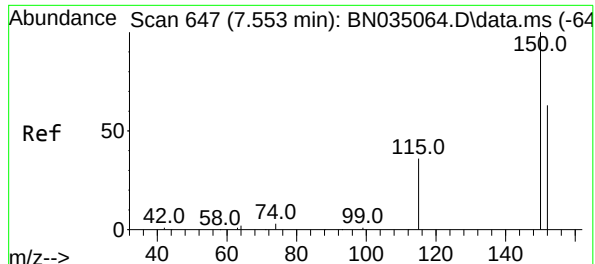
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035068.D
Acq On : 13 Nov 2024 16:15
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 13 16:45:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration

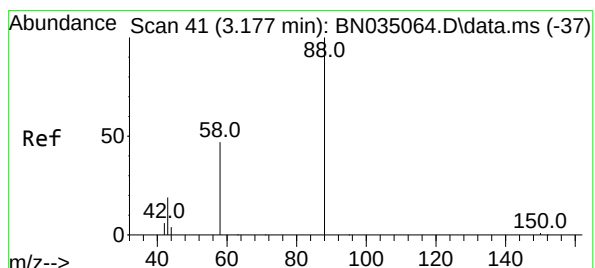
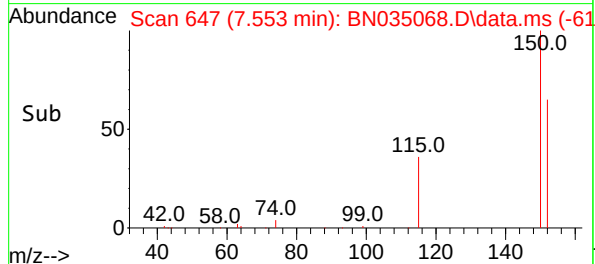
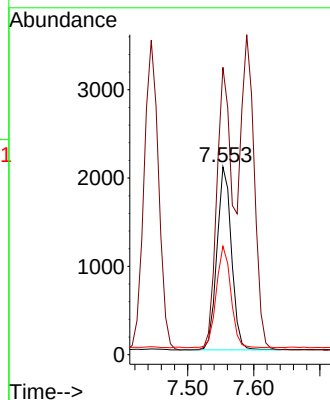
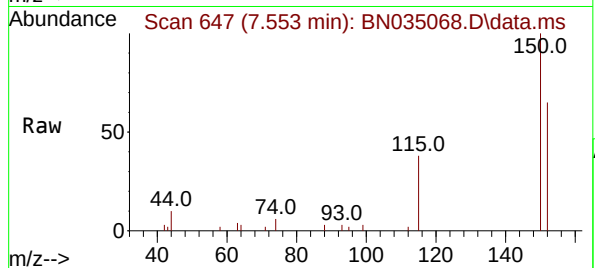




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

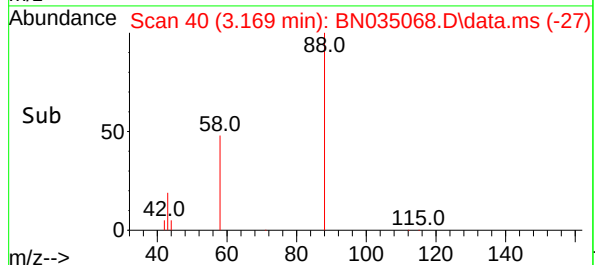
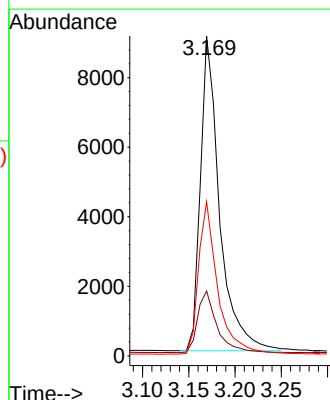
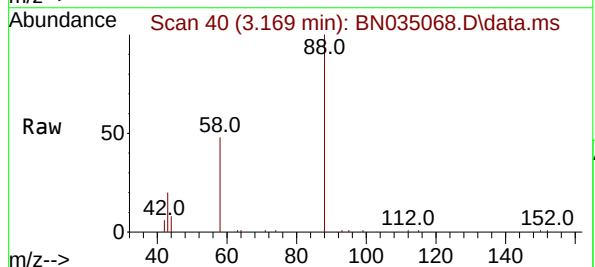
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

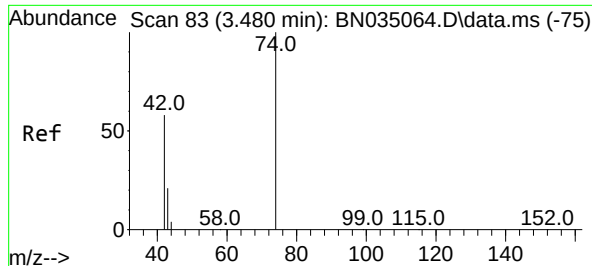
Tgt Ion:152 Resp: 3163
Ion Ratio Lower Upper
152 100
150 152.9 124.5 186.7
115 57.7 47.8 71.6



#2
1,4-Dioxane
Concen: 4.533 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion: 88 Resp: 13024
Ion Ratio Lower Upper
88 100
43 19.6 16.9 25.3
58 48.2 39.0 58.4

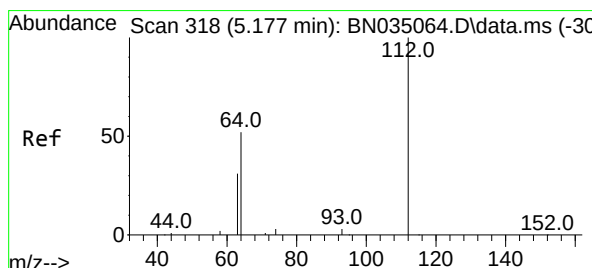
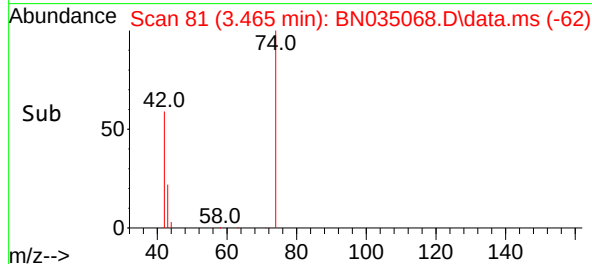
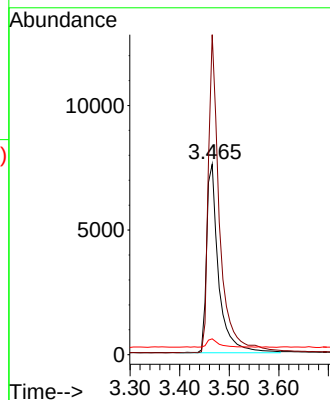
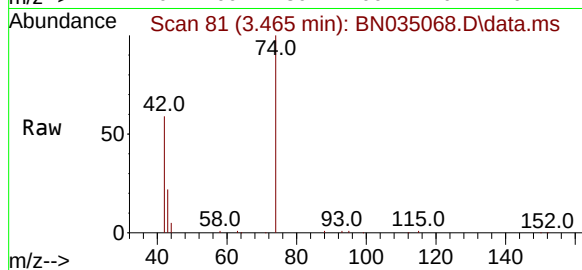




#3
n-Nitrosodimethylamine
Concen: 4.774 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.015 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

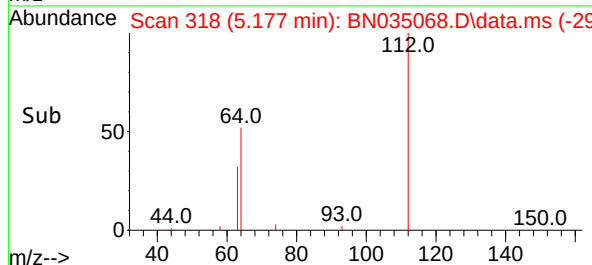
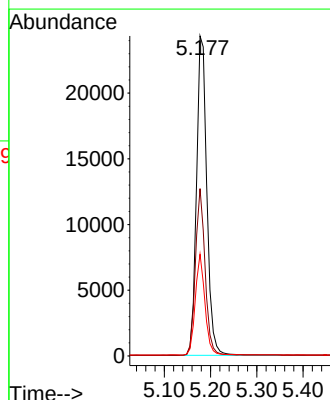
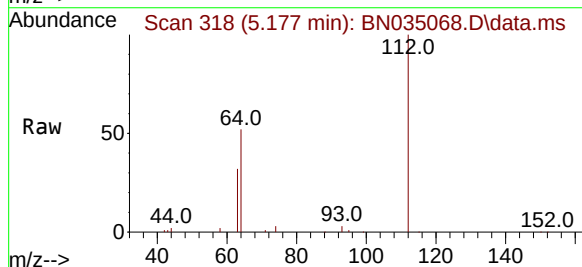
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

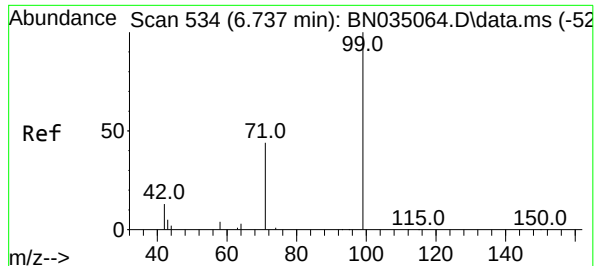
Tgt Ion: 42 Resp: 12737
Ion Ratio Lower Upper
42 100
74 159.1 120.8 181.2
44 4.4 2.9 4.3#



#4
2-Fluorophenol
Concen: 4.732 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion: 112 Resp: 37993
Ion Ratio Lower Upper
112 100
64 49.0 39.7 59.5
63 29.4 23.0 34.4

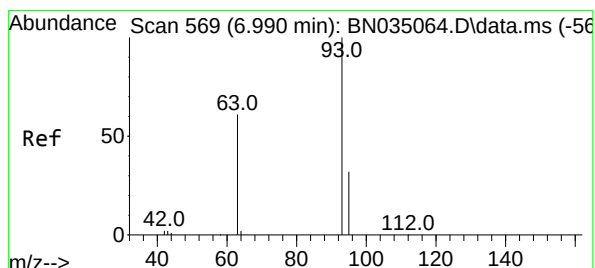
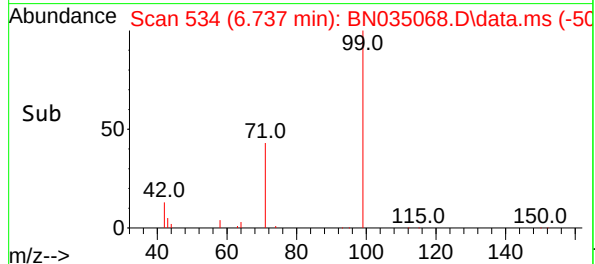
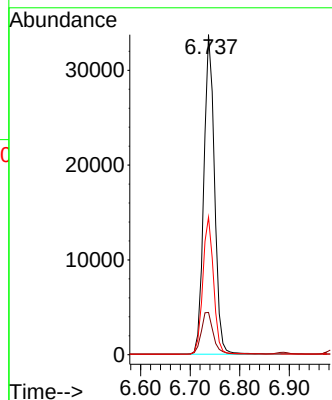
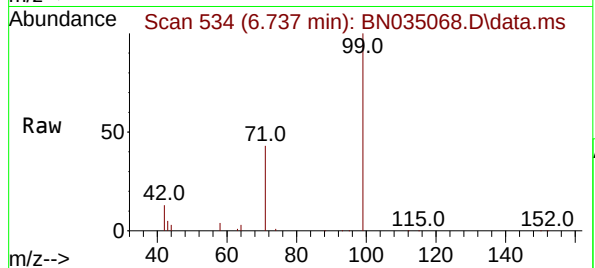




#5
Phenol-d6
Concen: 5.035 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

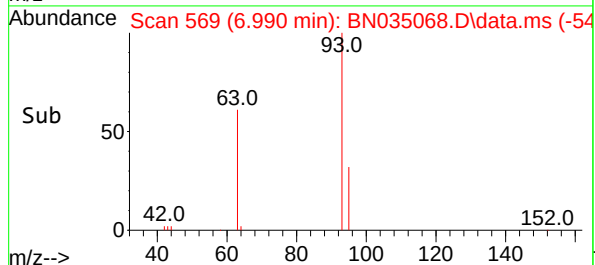
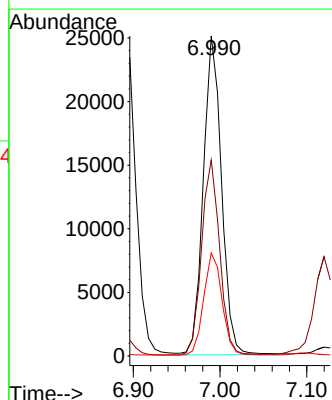
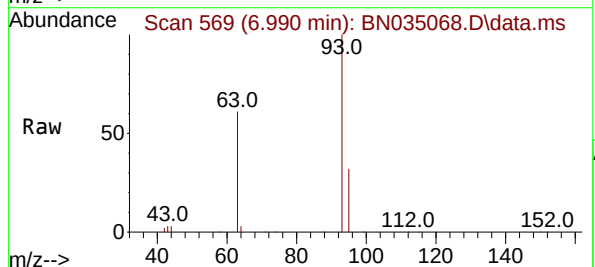
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

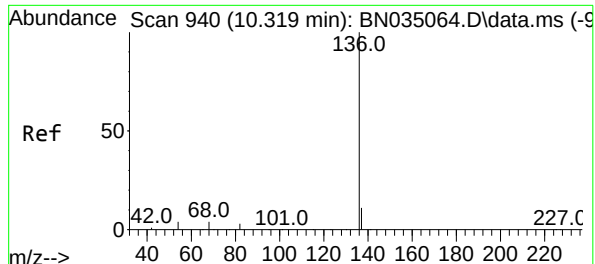
Tgt Ion: 99 Resp: 50689
Ion Ratio Lower Upper
99 100
42 14.6 11.4 17.0
71 43.2 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 4.860 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion: 93 Resp: 36728
Ion Ratio Lower Upper
93 100
63 60.5 47.4 71.2
95 32.3 26.2 39.4

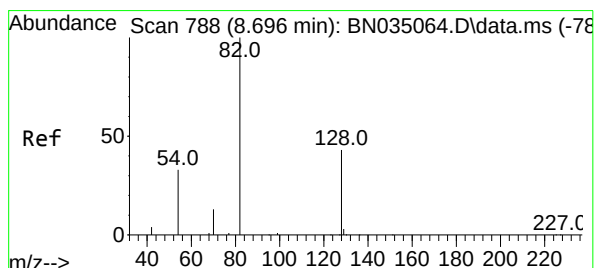
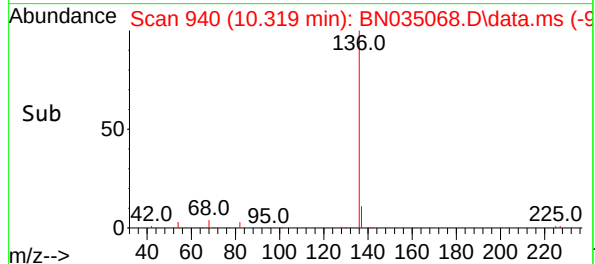
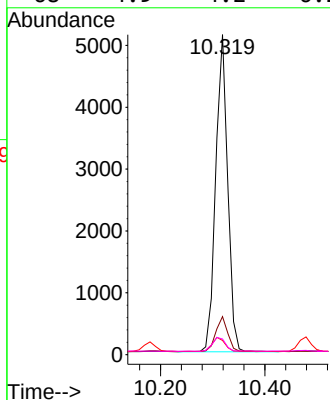
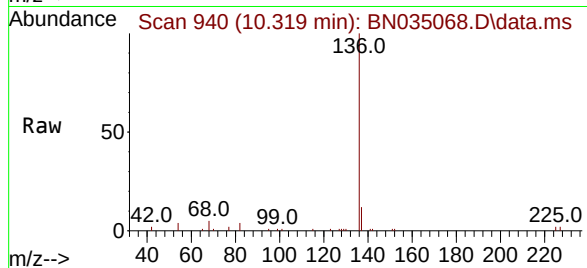




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

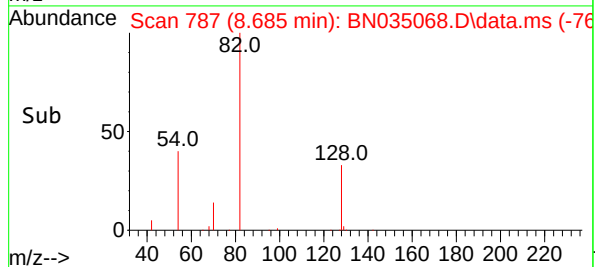
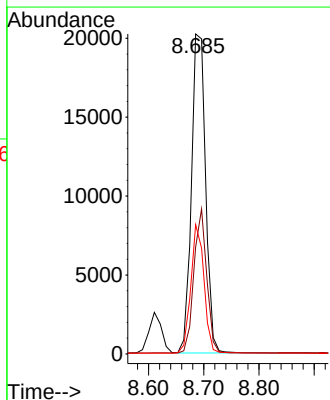
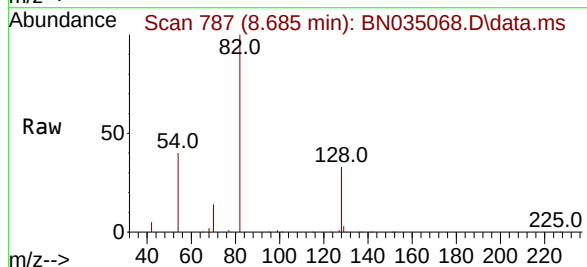
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

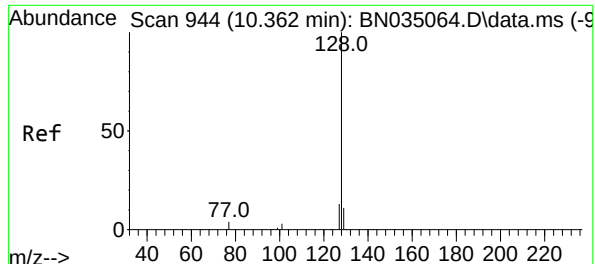
Tgt Ion:	136	Resp:	8134
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.8	14.8
54	4.4	4.0	6.0
68	4.9	4.2	6.2



#8
Nitrobenzene-d5
Concen: 5.091 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:	82	Resp:	35941
Ion	Ratio	Lower	Upper
82	100		
128	33.5	36.5	54.7#
54	40.4	28.7	43.1

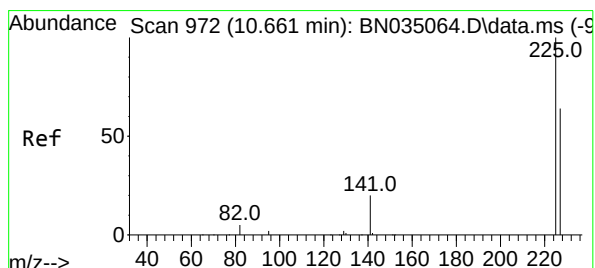
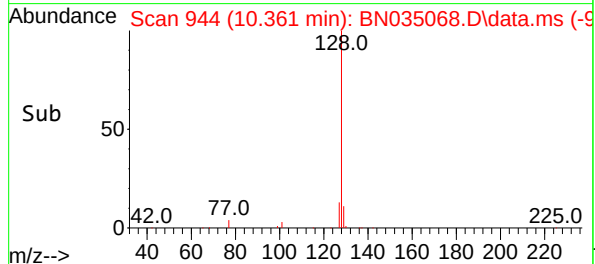
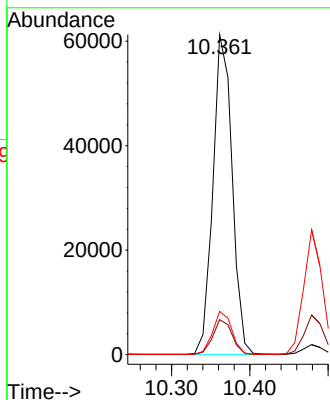
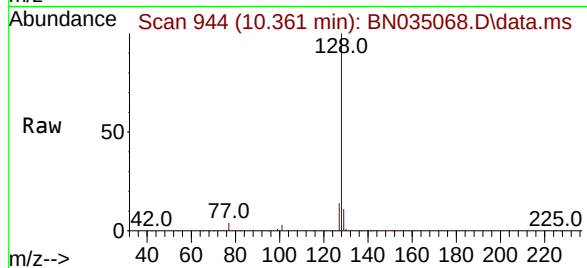




#9
Naphthalene
Concen: 4.914 ng
RT: 10.361 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

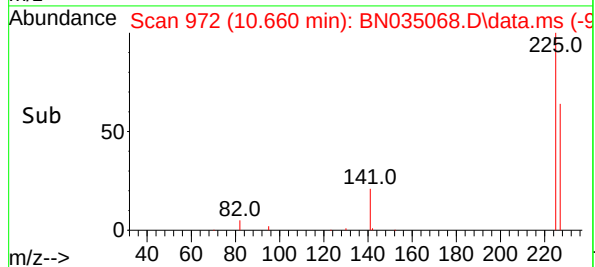
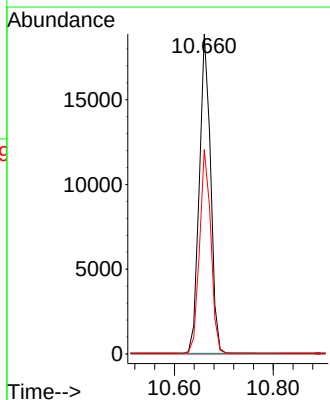
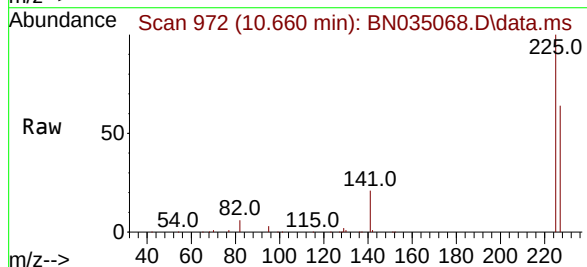
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

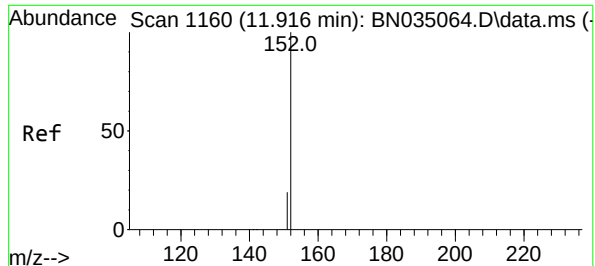
Tgt Ion:128 Resp: 104370
Ion Ratio Lower Upper
128 100
129 10.9 9.6 14.4
127 13.5 11.6 17.4



#10
Hexachlorobutadiene
Concen: 4.757 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:225 Resp: 29615
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 51.5 77.3

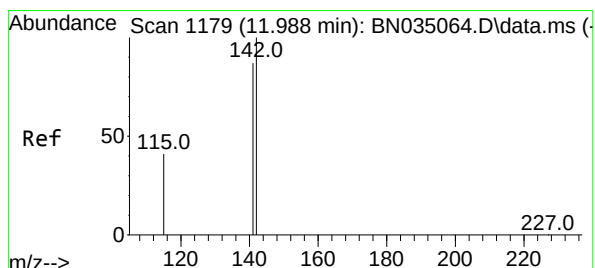
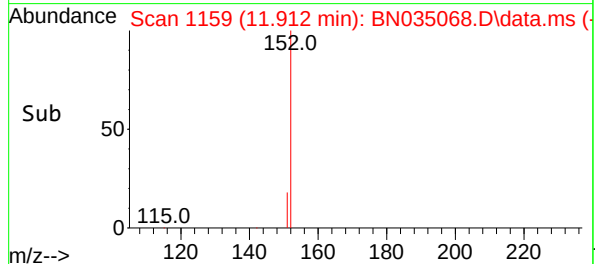
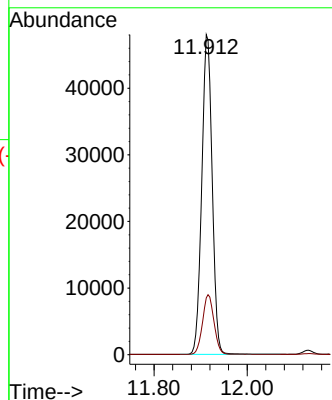
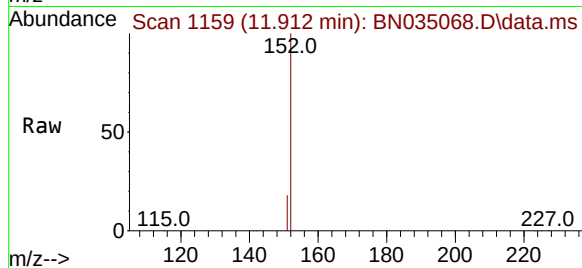




#11
2-Methylnaphthalene-d10
Concen: 5.128 ng
RT: 11.912 min Scan# 1160
Delta R.T. -0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

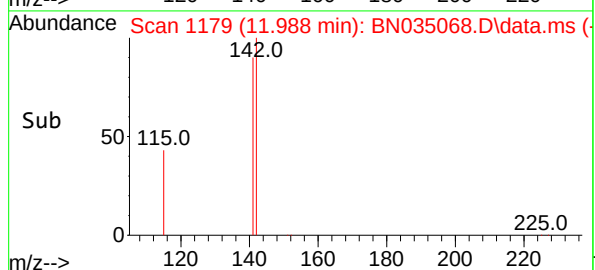
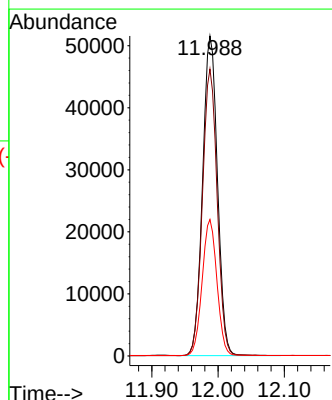
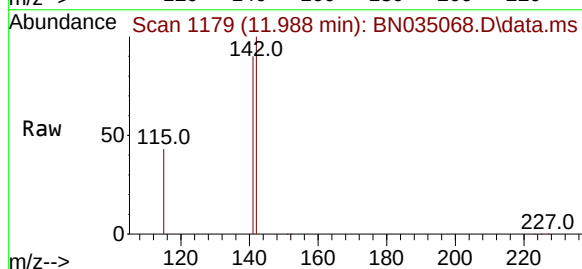
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

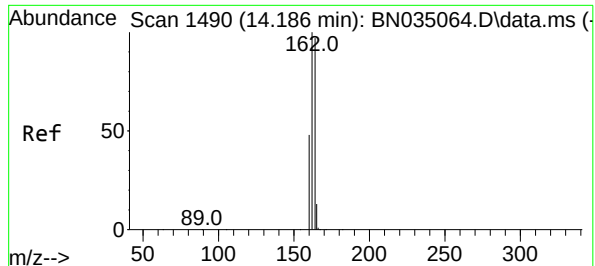
Tgt Ion:152 Resp: 74330
Ion Ratio Lower Upper
152 100
151 20.5 16.2 24.4



#12
2-Methylnaphthalene
Concen: 5.118 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:142 Resp: 80182
Ion Ratio Lower Upper
142 100
141 89.7 70.1 105.1
115 42.7 34.4 51.6

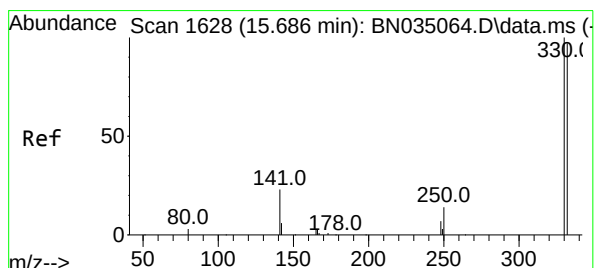
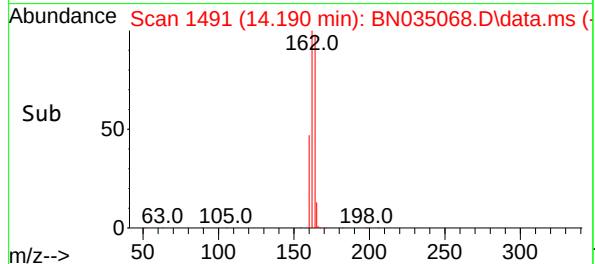
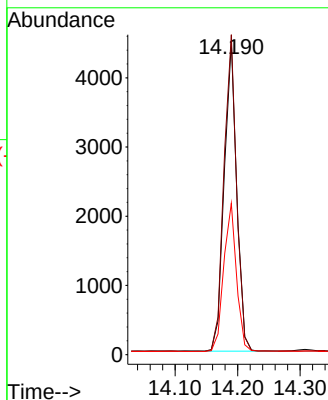
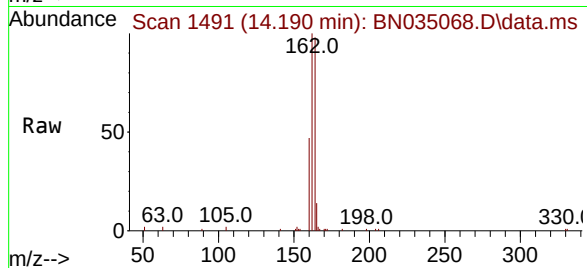




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

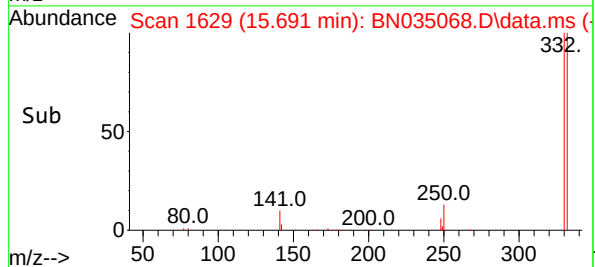
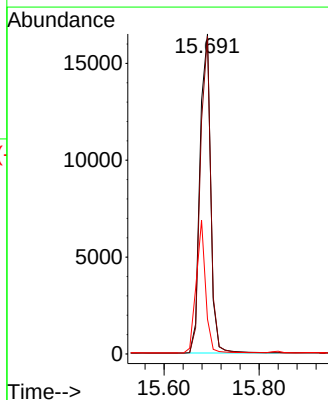
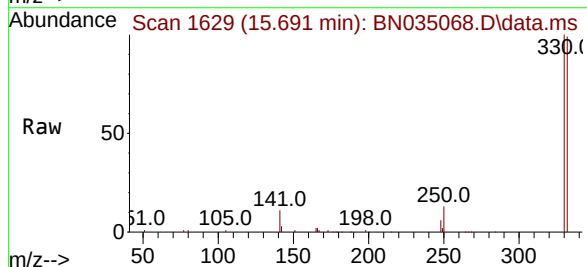
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

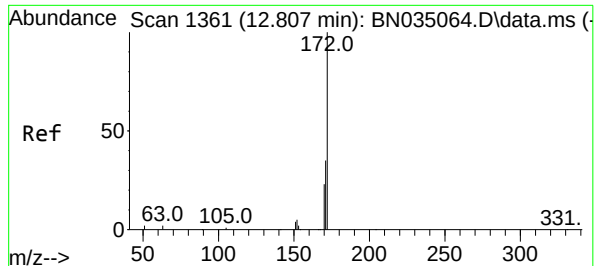
Tgt Ion:164 Resp: 6225
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 48.4 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 5.740 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:330 Resp: 25763
Ion Ratio Lower Upper
330 100
332 96.7 76.9 115.3
141 36.4 29.6 44.4

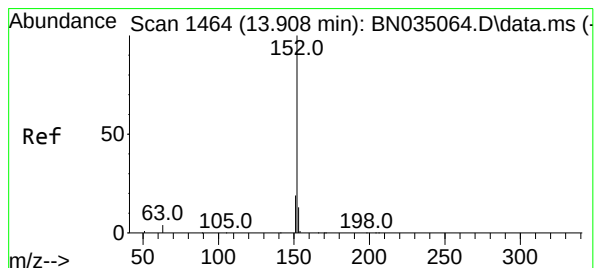
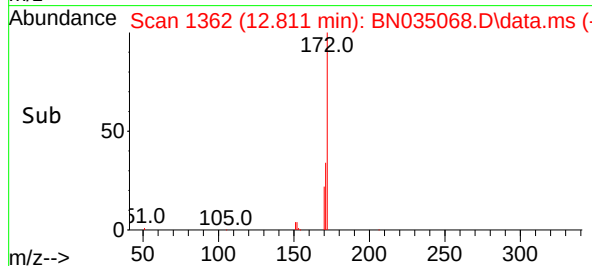
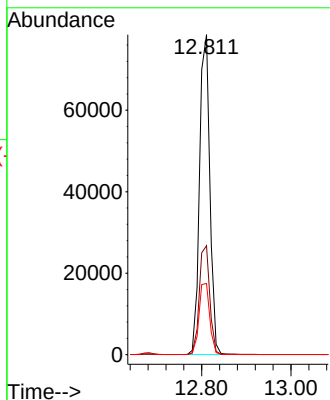
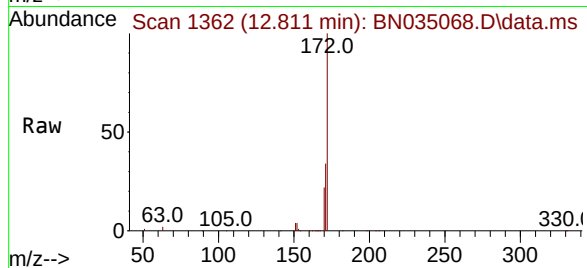




#15
2-Fluorobiphenyl
Concen: 4.967 ng
RT: 12.811 min Scan# 1361
Delta R.T. 0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

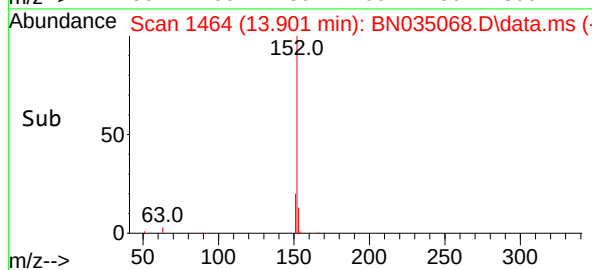
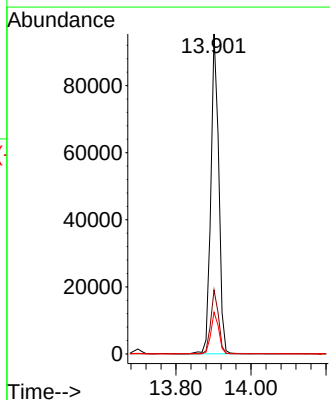
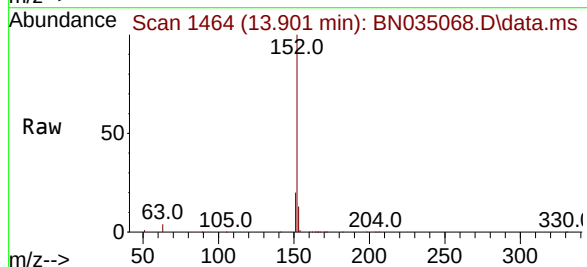
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

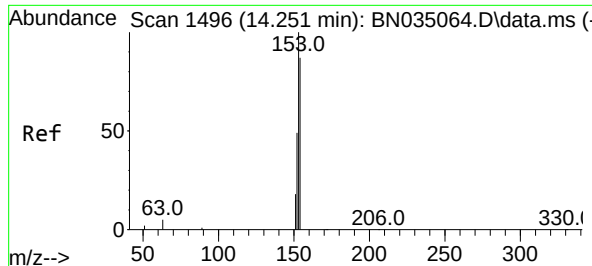
Tgt Ion:172 Resp: 125581
Ion Ratio Lower Upper
172 100
171 34.1 28.2 42.4
170 22.3 19.0 28.6



#16
Acenaphthylene
Concen: 5.250 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:152 Resp: 139668
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.8
153 13.0 10.2 15.4

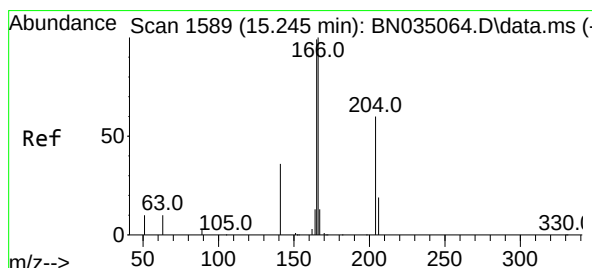
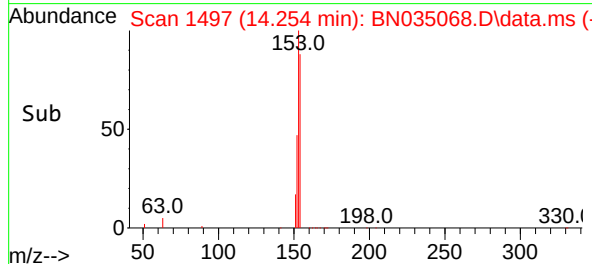
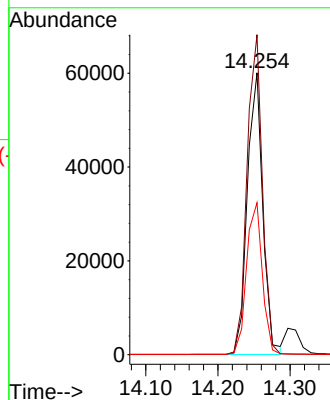
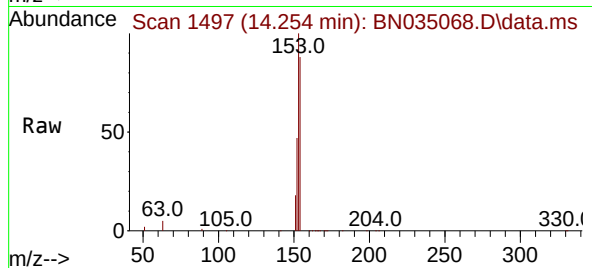




#17
Acenaphthene
Concen: 5.115 ng
RT: 14.254 min Scan# 1497
Delta R.T. 0.004 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

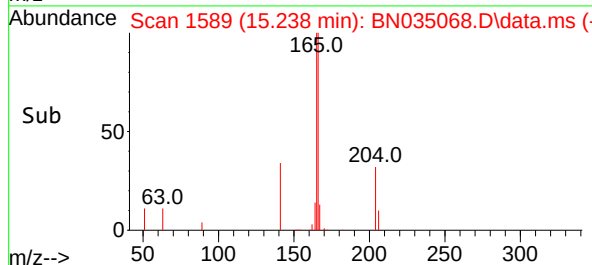
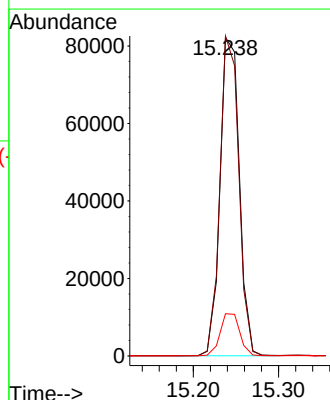
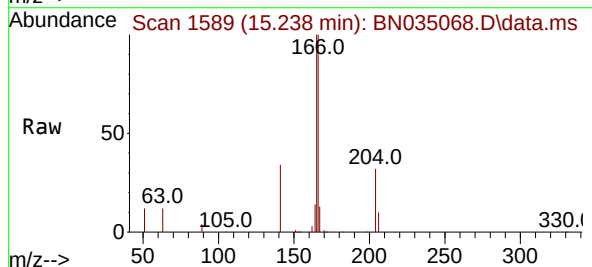
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

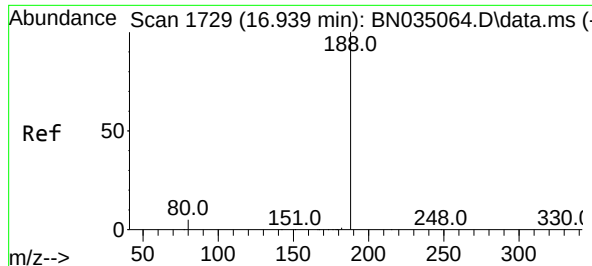
Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.0	91.6	137.4
152	55.3	45.8	68.6



#18
Fluorene
Concen: 5.033 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.2	79.1	118.7
167	13.5	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.932 min Scan# 1729

Delta R.T. -0.007 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

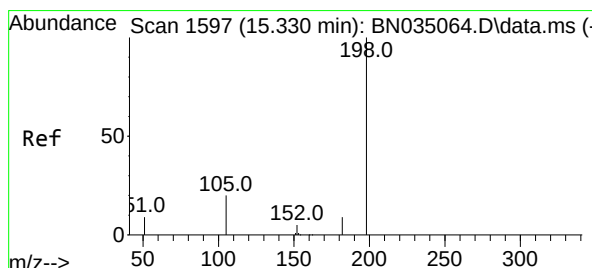
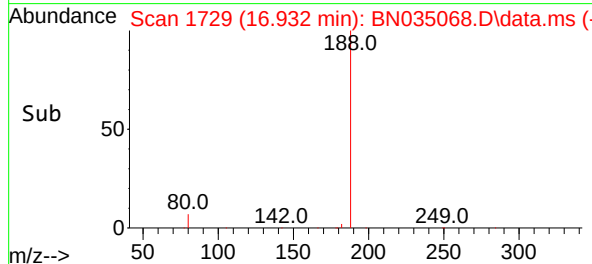
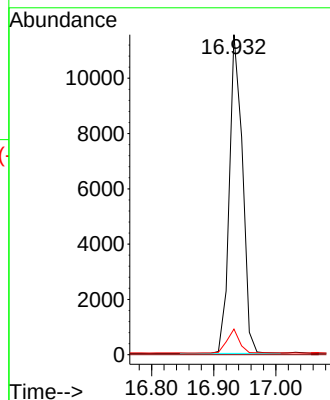
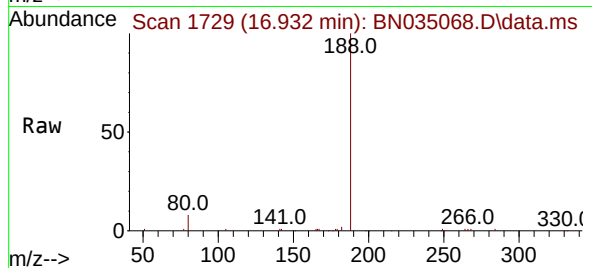
Tgt Ion:188 Resp: 16809

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.0 4.3 6.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 6.304 ng

RT: 15.323 min Scan# 1597

Delta R.T. -0.007 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

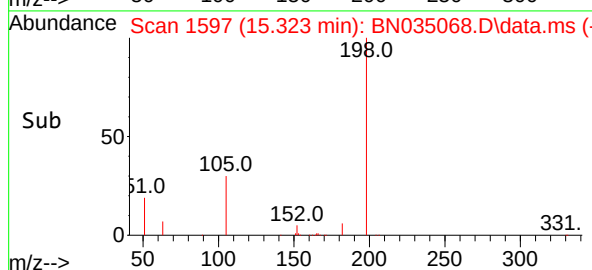
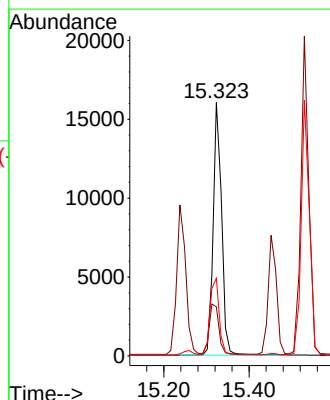
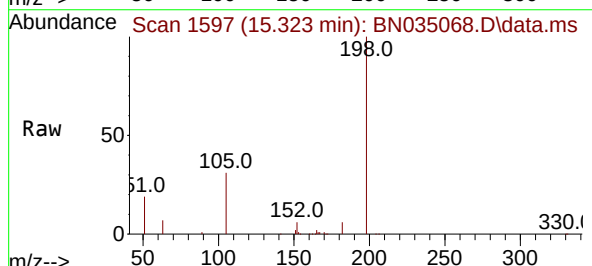
Tgt Ion:198 Resp: 22059

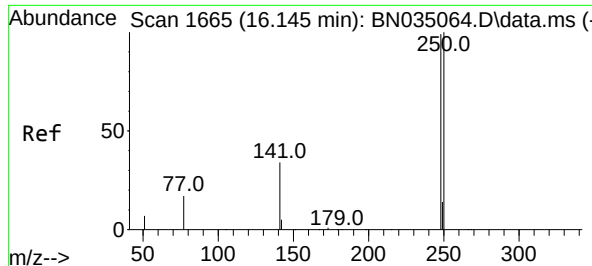
Ion Ratio Lower Upper

198 100

51 19.4 29.9 44.9#

105 30.6 23.7 35.5

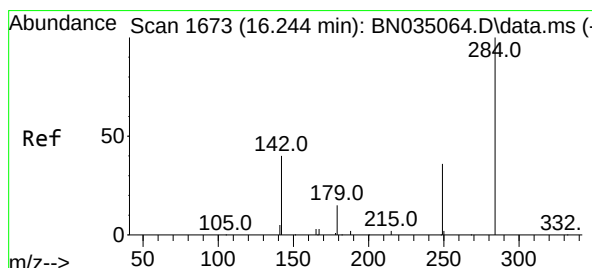
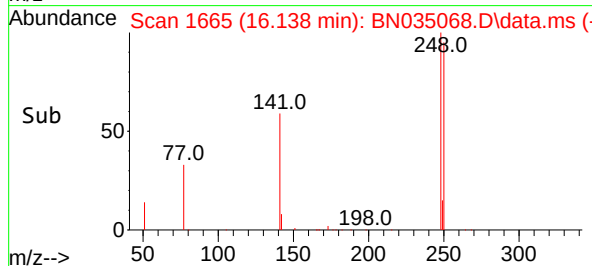
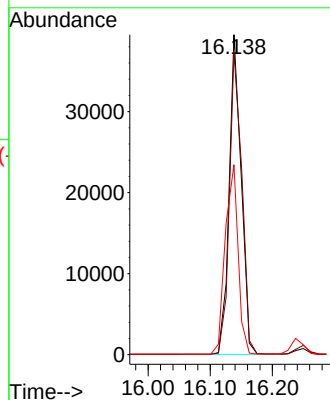
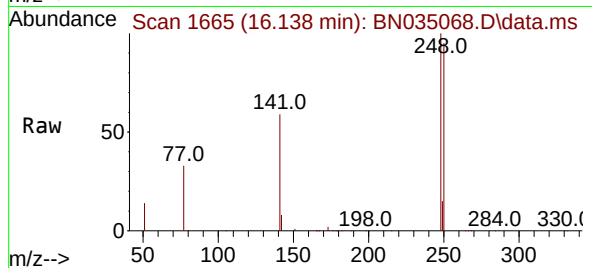




#21
4-Bromophenyl-phenylether
Concen: 4.935 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

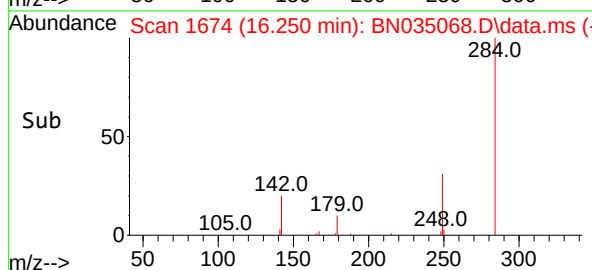
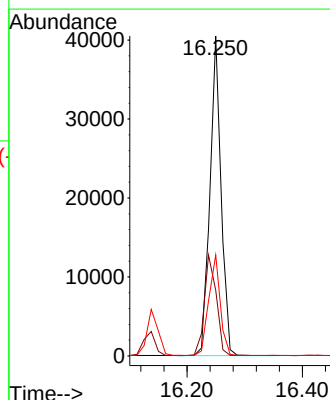
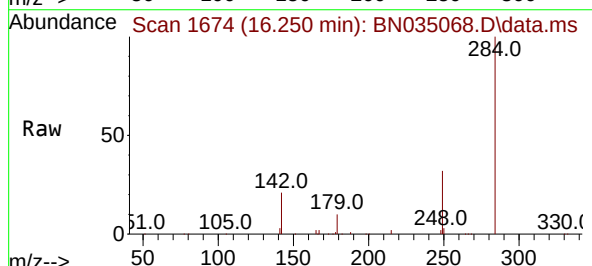
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

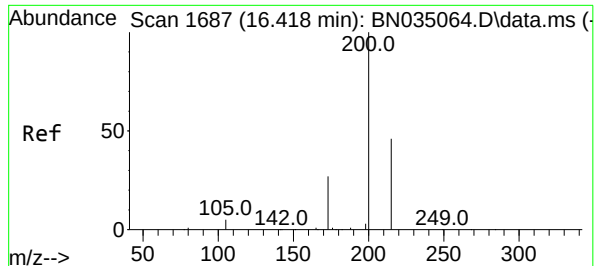
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.6	81.2	121.8
141	59.4	29.1	43.7



#22
Hexachlorobenzene
Concen: 4.870 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.0	28.2	42.4
249	32.4	26.2	39.2

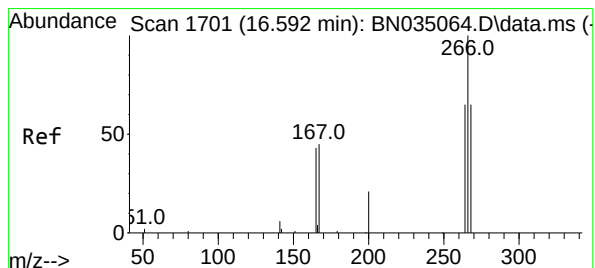
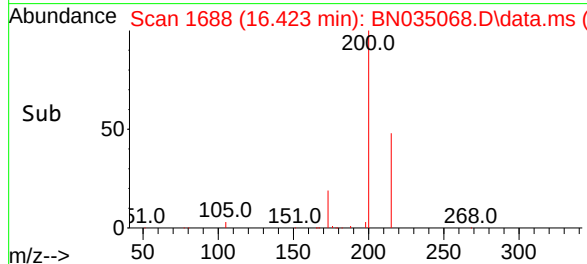
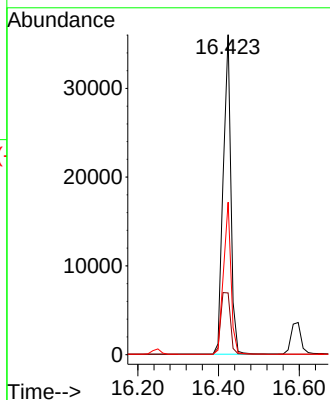
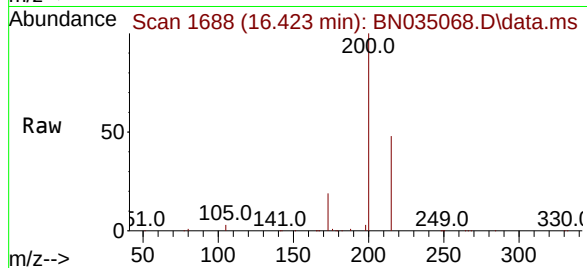




#23
Atrazine
Concen: 4.928 ng
RT: 16.423 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

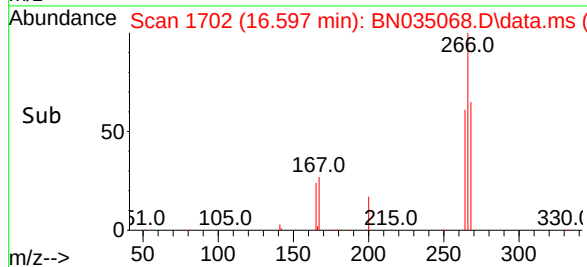
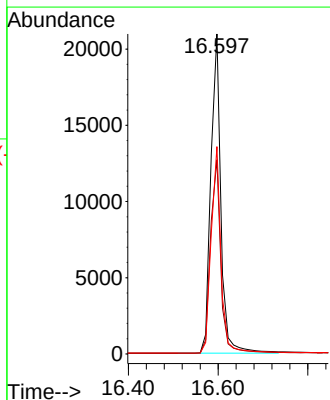
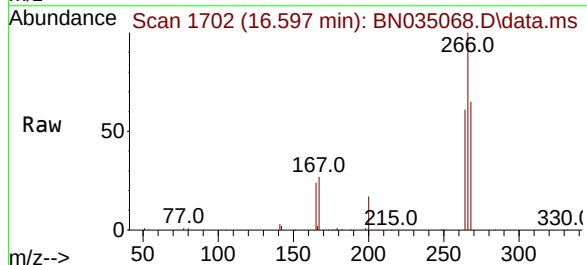
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

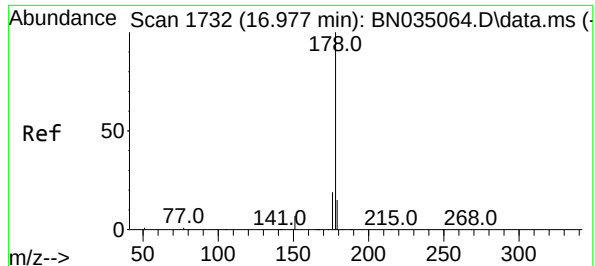
Tgt Ion:200 Resp: 47349
Ion Ratio Lower Upper
200 100
173 19.3 22.6 33.8#
215 47.7 37.8 56.6



#24
Pentachlorophenol
Concen: 6.228 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:266 Resp: 32339
Ion Ratio Lower Upper
266 100
264 62.3 49.4 74.0
268 63.7 52.6 79.0

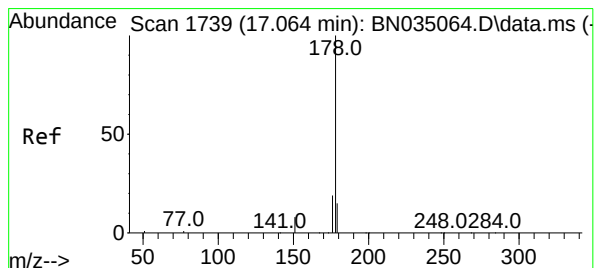
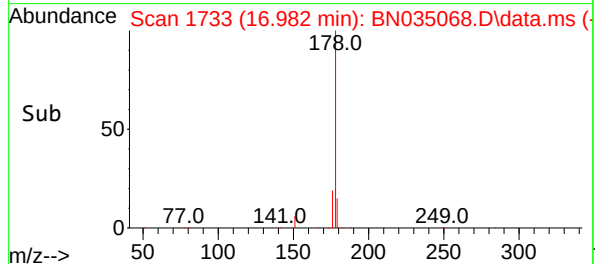
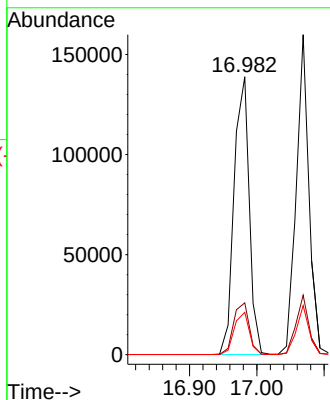
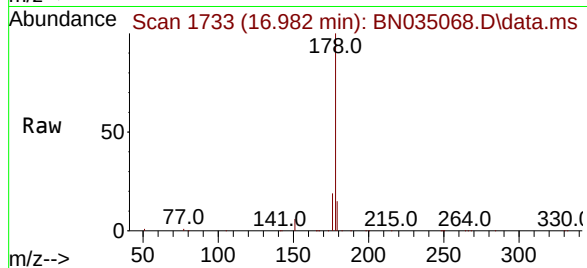




#25
Phenanthrene
Concen: 4.923 ng
RT: 16.982 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

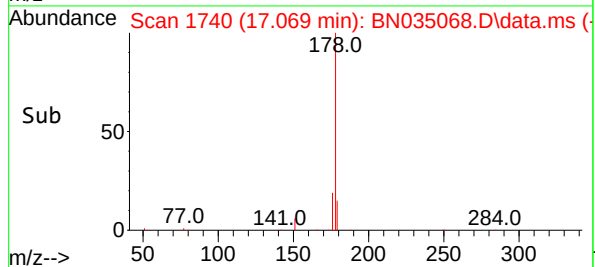
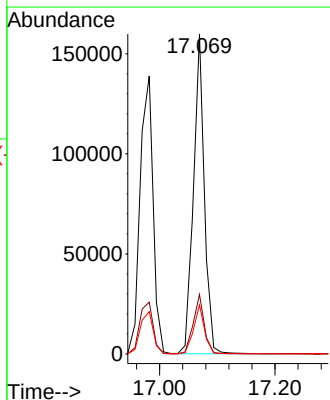
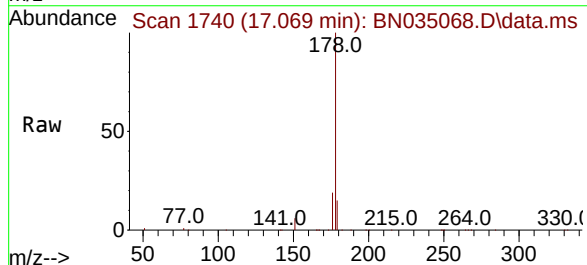
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

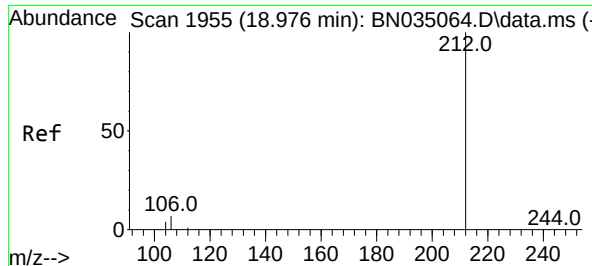
Tgt Ion:178 Resp: 217781
Ion Ratio Lower Upper
178 100
176 19.3 15.2 22.8
179 15.2 12.6 18.8



#26
Anthracene
Concen: 5.176 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:178 Resp: 210303
Ion Ratio Lower Upper
178 100
176 18.6 14.6 22.0
179 15.3 12.2 18.2





#27

Fluoranthene-d10

Concen: 5.059 ng

RT: 18.973 min Scan# 1955

Delta R.T. -0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

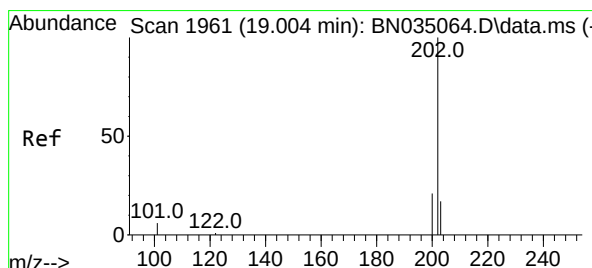
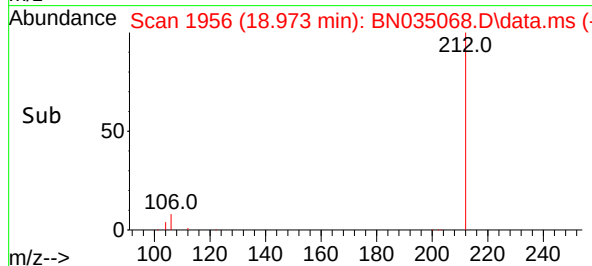
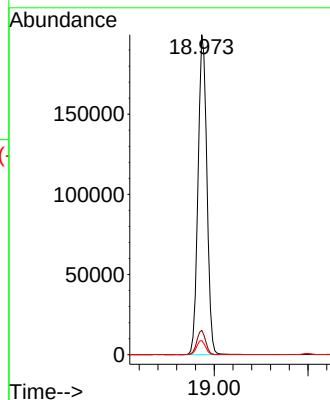
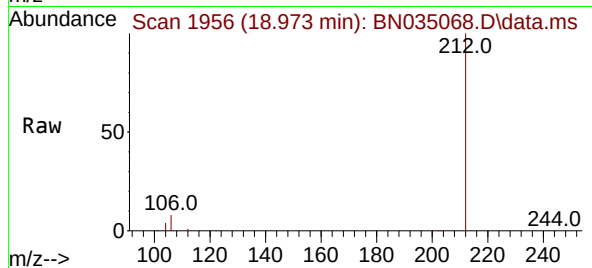
Tgt Ion:212 Resp: 260540

Ion Ratio Lower Upper

212 100

106 7.6 6.0 9.0

104 4.4 3.5 5.3



#28

Fluoranthene

Concen: 5.019 ng

RT: 19.006 min Scan# 1963

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

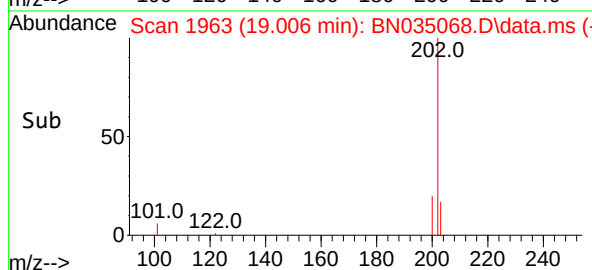
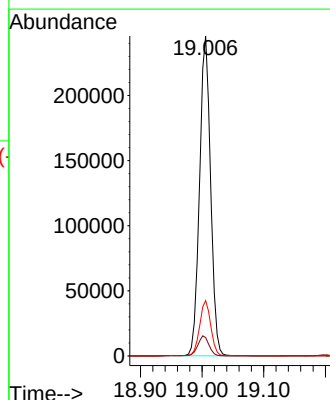
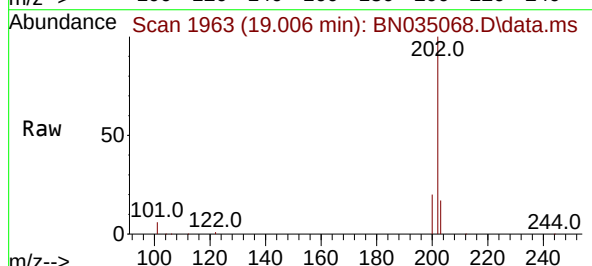
Tgt Ion:202 Resp: 305283

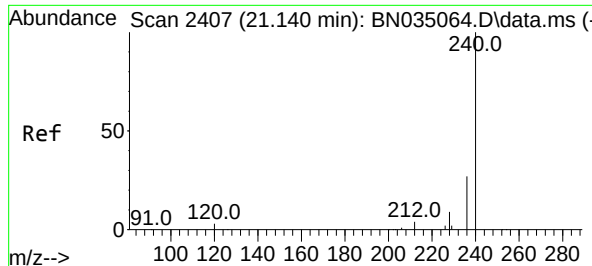
Ion Ratio Lower Upper

202 100

101 6.4 5.2 7.8

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.133 min Scan# 2408

Delta R.T. -0.007 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

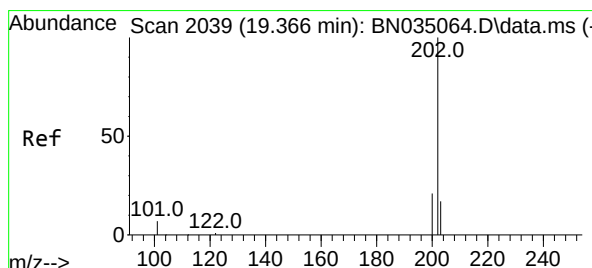
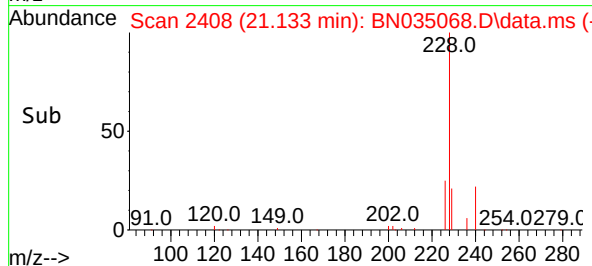
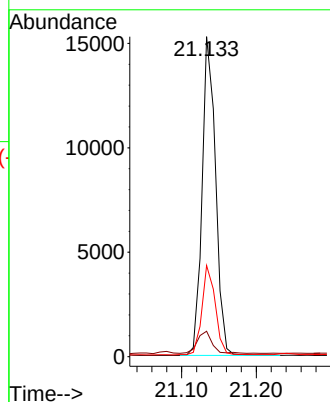
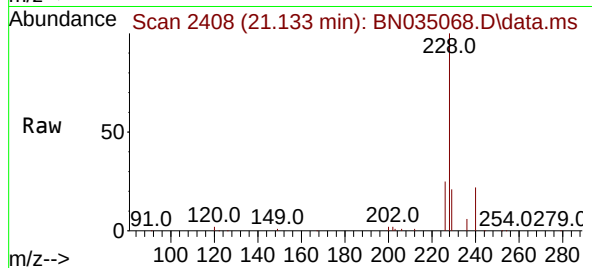
Tgt Ion:240 Resp: 19216

Ion Ratio Lower Upper

240 100

120 8.0 3.8 5.6#

236 28.5 22.2 33.2



#30

Pyrene

Concen: 4.942 ng

RT: 19.368 min Scan# 2041

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

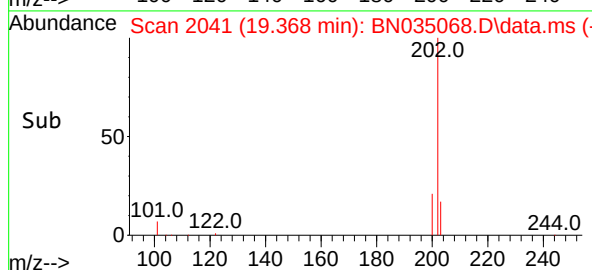
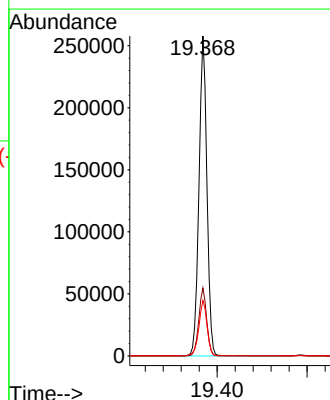
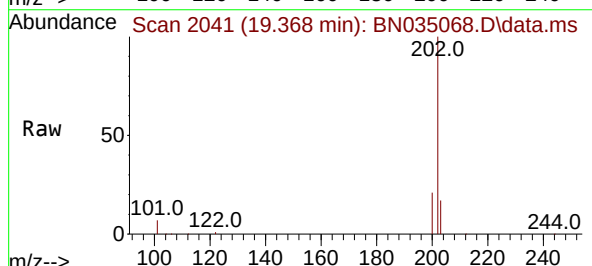
Tgt Ion:202 Resp: 316225

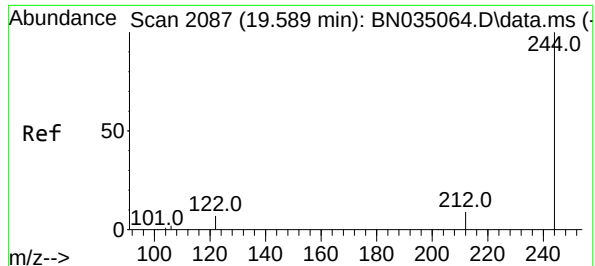
Ion Ratio Lower Upper

202 100

200 21.2 16.7 25.1

203 17.9 14.2 21.4

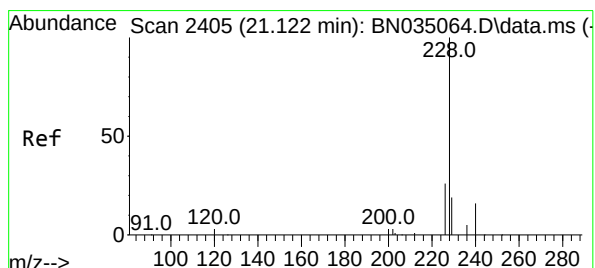
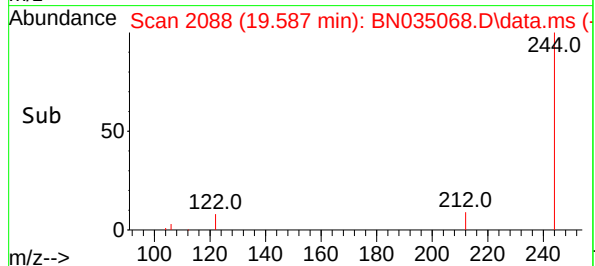
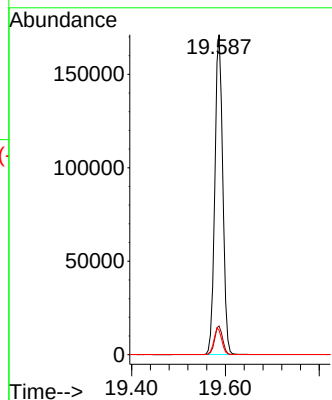
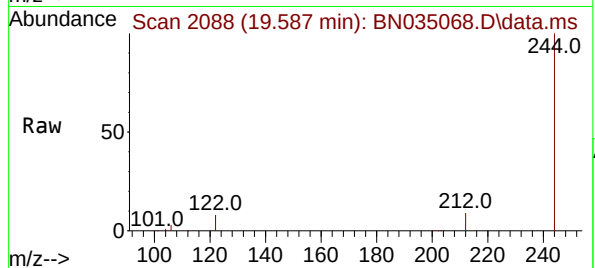




#31
Terphenyl-d14
Concen: 4.950 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

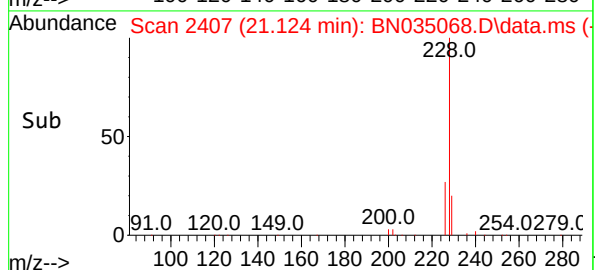
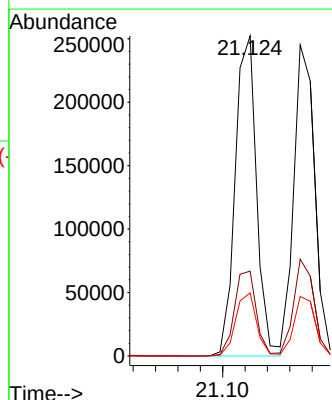
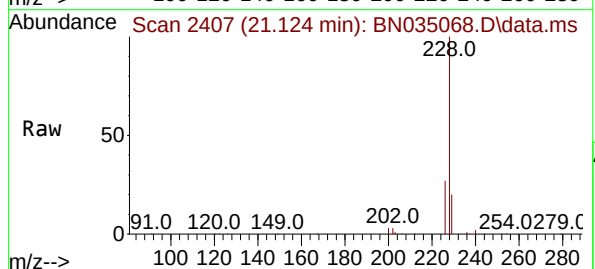
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

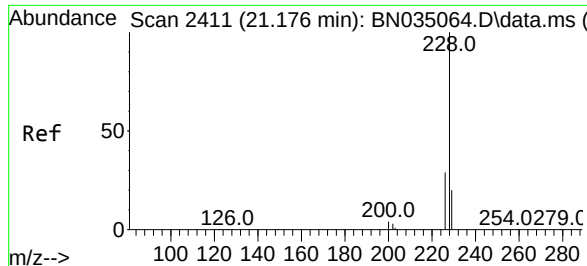
Tgt Ion:244 Resp: 199585
Ion Ratio Lower Upper
244 100
212 9.0 7.6 11.4
122 7.7 6.1 9.1



#32
Benzo(a)anthracene
Concen: 5.013 ng
RT: 21.124 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035068.D
Acq: 13 Nov 2024 16:15

Tgt Ion:228 Resp: 335437
Ion Ratio Lower Upper
228 100
226 26.5 21.4 32.0
229 19.7 15.7 23.5





#33

Chrysene

Concen: 4.786 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

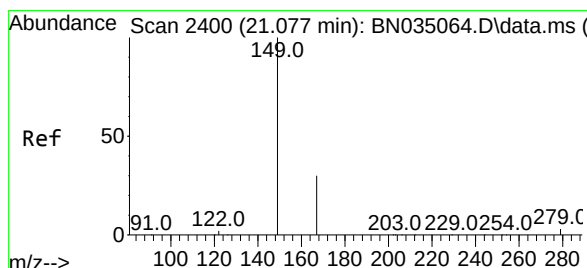
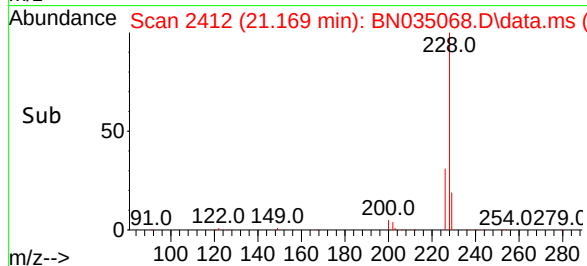
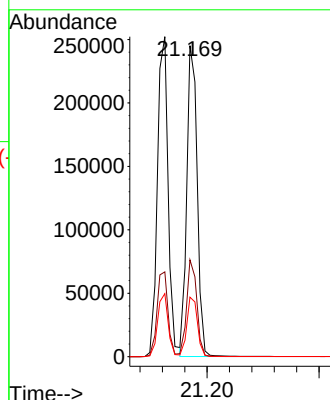
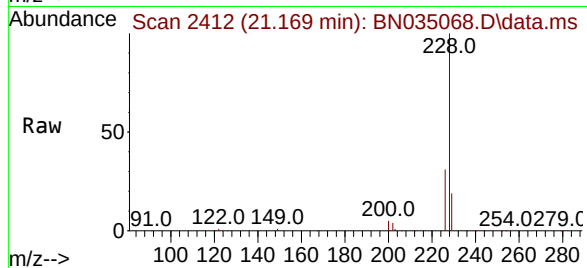
Tgt Ion:228 Resp: 317200

Ion Ratio Lower Upper

228 100

226 31.1 23.7 35.5

229 19.1 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.121 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

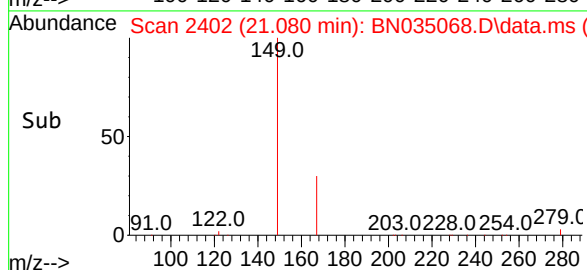
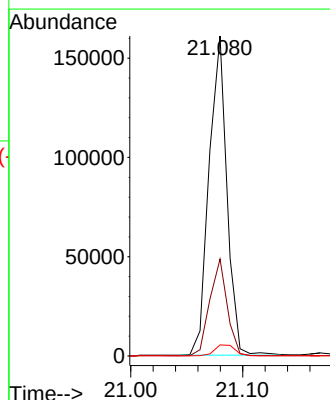
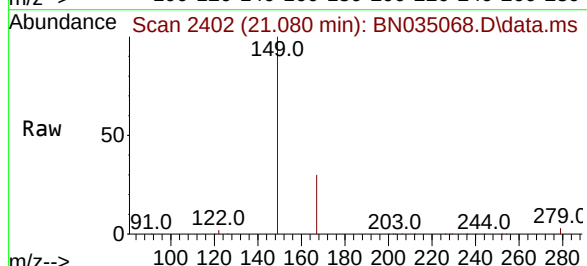
Tgt Ion:149 Resp: 178320

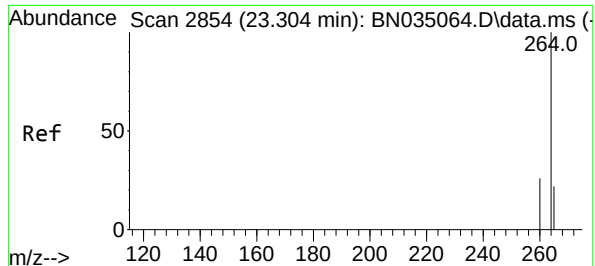
Ion Ratio Lower Upper

149 100

167 29.5 23.2 34.8

279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.303 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

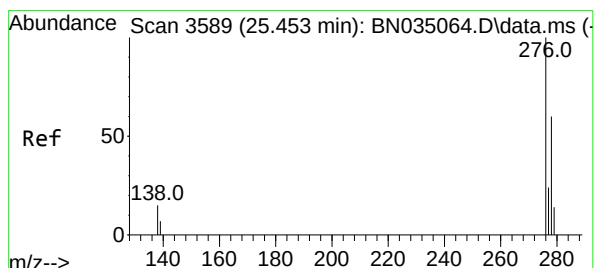
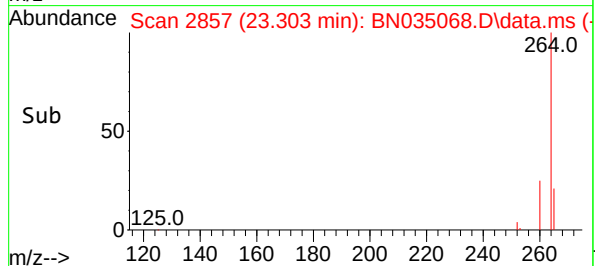
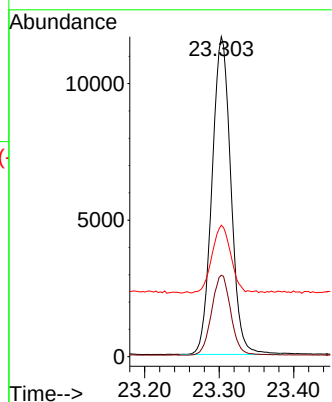
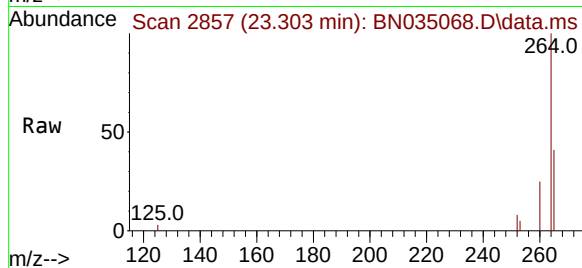
Tgt Ion:264 Resp: 20465

Ion Ratio Lower Upper

264 100

260 25.4 20.9 31.3

265 41.1 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 4.966 ng

RT: 25.455 min Scan# 3593

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

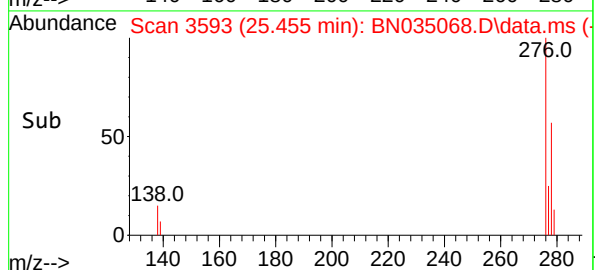
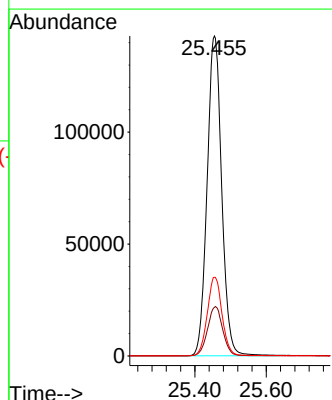
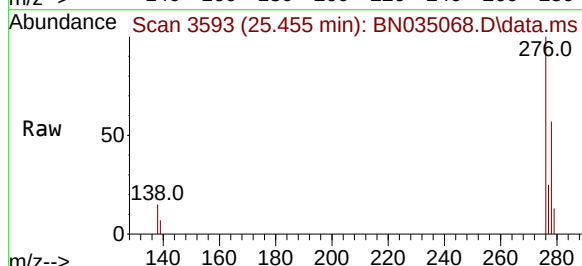
Tgt Ion:276 Resp: 405401

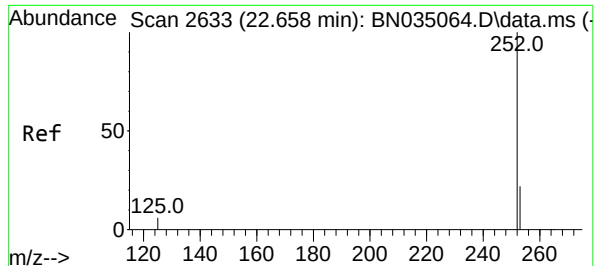
Ion Ratio Lower Upper

276 100

138 16.0 13.0 19.4

277 24.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 5.049 ng

RT: 22.660 min Scan# 2637

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

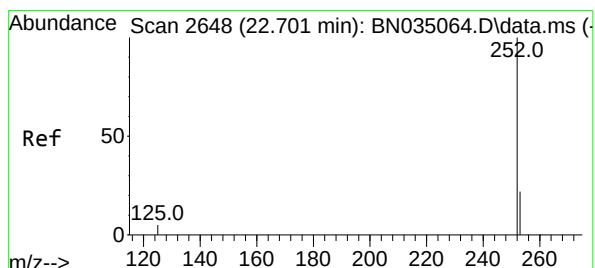
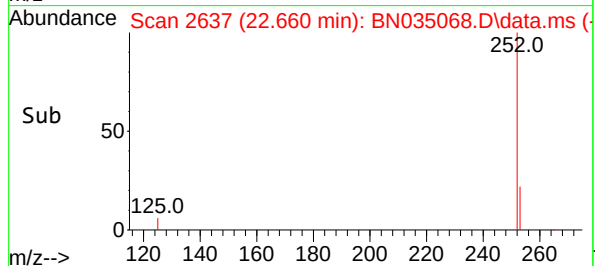
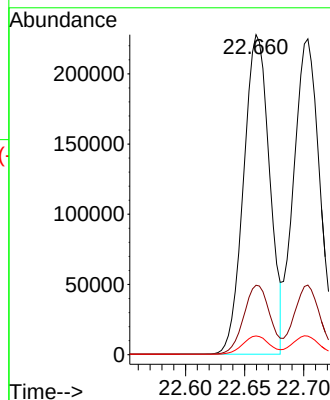
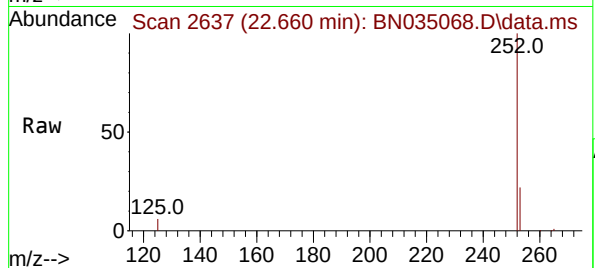
Tgt Ion:252 Resp: 347639

Ion Ratio Lower Upper

252 100

253 21.7 19.3 28.9

125 5.8 6.2 9.2#



#38

Benzo(k)fluoranthene

Concen: 5.041 ng

RT: 22.703 min Scan# 2652

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

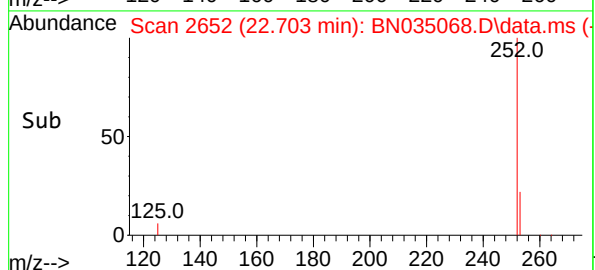
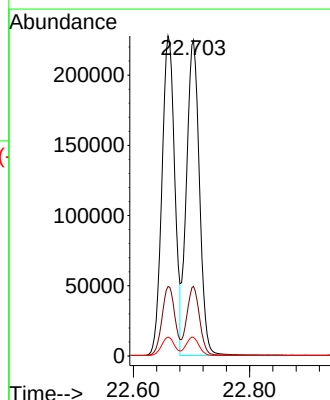
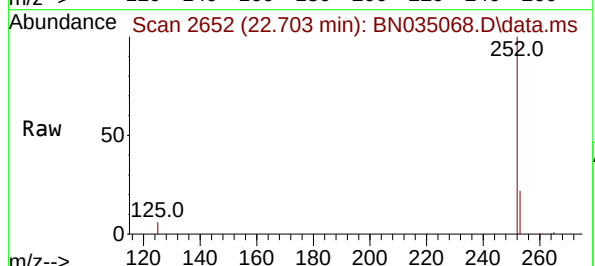
Tgt Ion:252 Resp: 347310

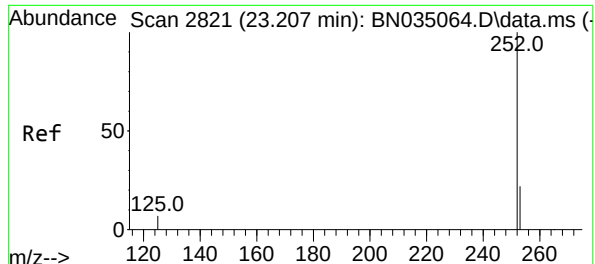
Ion Ratio Lower Upper

252 100

253 22.0 19.5 29.3

125 5.9 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 5.094 ng

RT: 23.209 min Scan# 2821

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

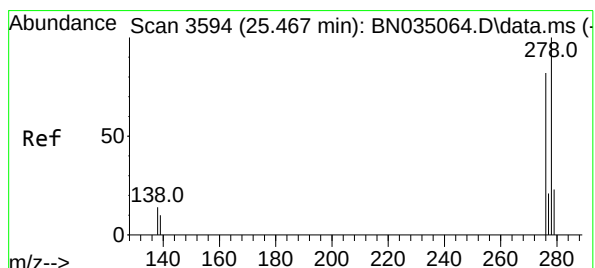
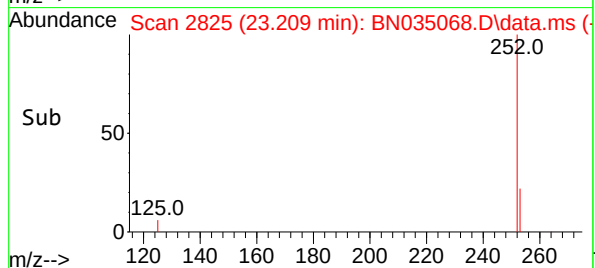
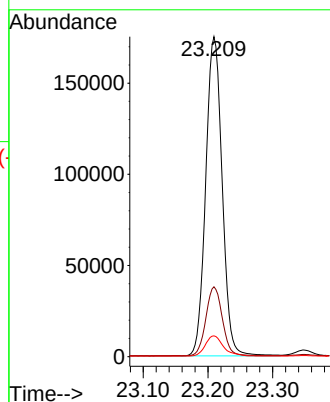
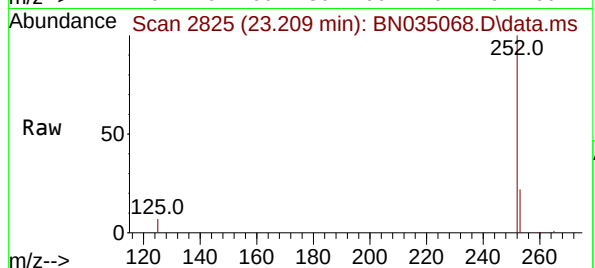
Tgt Ion:252 Resp: 308664

Ion Ratio Lower Upper

252 100

253 21.8 20.1 30.1

125 6.5 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 5.002 ng

RT: 25.469 min Scan# 3598

Delta R.T. 0.002 min

Lab File: BN035068.D

Acq: 13 Nov 2024 16:15

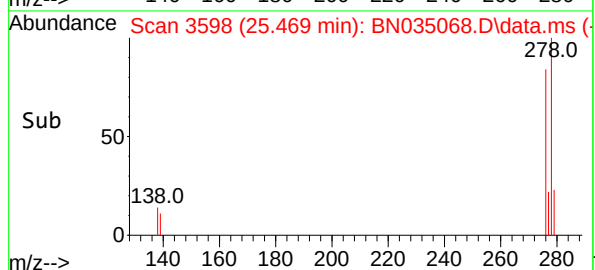
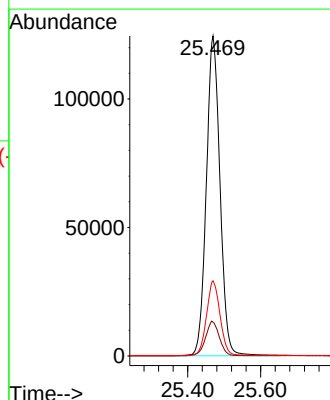
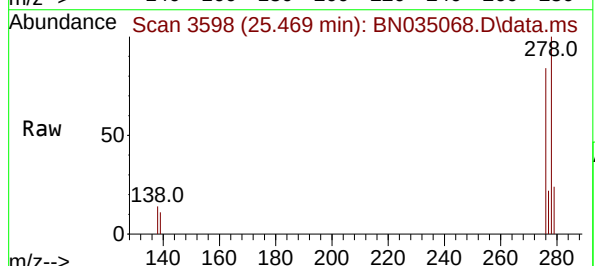
Tgt Ion:278 Resp: 323522

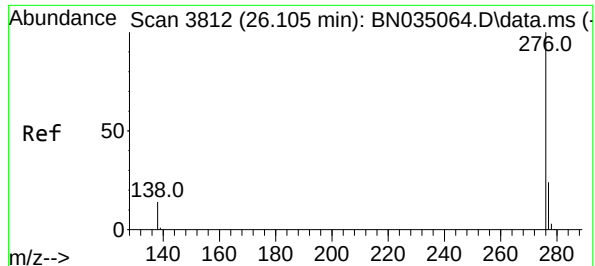
Ion Ratio Lower Upper

278 100

139 10.6 9.3 13.9

279 23.5 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 4.937 ng

RT: 26.107 min Scan# 3812

Delta R.T. 0.002 min

Lab File: BN035068.D

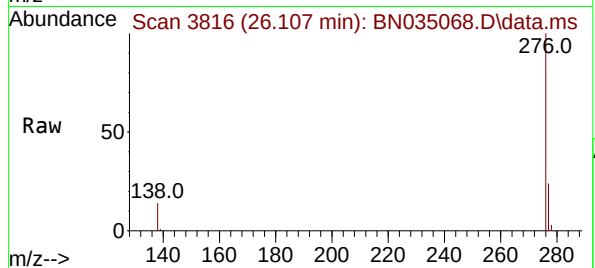
Acq: 13 Nov 2024 16:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



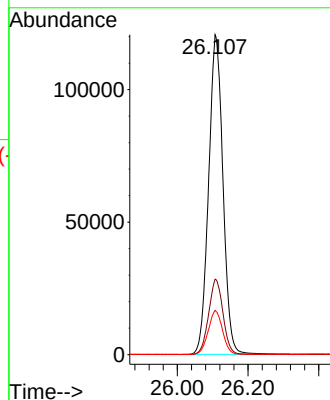
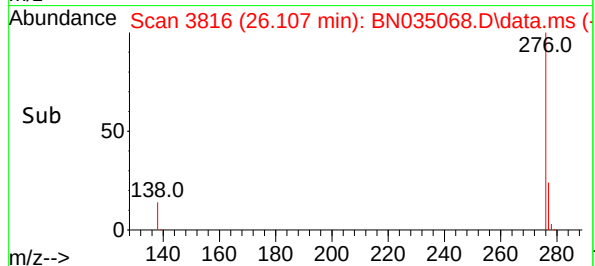
Tgt Ion:276 Resp: 339655

Ion Ratio Lower Upper

276 100

277 23.6 19.9 29.9

138 13.9 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035069.D
 Acq On : 13 Nov 2024 16:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024

Quant Time: Nov 13 17:18:36 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Nov 13 17:18:14 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2509	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6367	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	4967	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	12682	0.400	ng	0.00
29) Chrysene-d12	21.140	240	14055	0.400	ng	0.00
35) Perylene-d12	23.304	264	15724	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2342	0.368	ng	0.00
5) Phenol-d6	6.737	99	2867	0.359	ng	0.00
8) Nitrobenzene-d5	8.696	82	1983	0.358	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	4166	0.367	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	1154	0.322	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	7205	0.357	ng	0.00
27) Fluoranthene-d10	18.976	212	14530	0.374	ng	0.00
31) Terphenyl-d14	19.584	244	11240	0.381	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	845	0.371	ng	99
3) n-Nitrosodimethylamine	3.473	42	781	0.368	ng	# 94
6) bis(2-Chloroethyl)ether	6.990	93	2218	0.370	ng	98
9) Naphthalene	10.362	128	6092	0.366	ng	100
10) Hexachlorobutadiene	10.661	225	1817	0.373	ng	# 98
12) 2-Methylnaphthalene	11.988	142	4513	0.368	ng	99
16) Acenaphthylene	13.908	152	7387	0.348	ng	100
17) Acenaphthene	14.250	154	4995	0.359	ng	99
18) Fluorene	15.245	166	7206	0.352	ng	100
20) 4,6-Dinitro-2-methylph...	15.330	198	870m	0.330	ng	
21) 4-Bromophenyl-phenylether	16.145	248	3001	0.371	ng	98
22) Hexachlorobenzene	16.244	284	3175	0.379	ng	99
23) Atrazine	16.418	200	2682	0.370	ng	98
24) Pentachlorophenol	16.592	266	1269	0.324	ng	98
25) Phenanthrene	16.977	178	12517	0.375	ng	99
26) Anthracene	17.063	178	11219	0.366	ng	100
28) Fluoranthene	19.004	202	17084	0.372	ng	100
30) Pyrene	19.366	202	17580	0.376	ng	100
32) Benzo(a)anthracene	21.122	228	18406	0.376	ng	99
33) Chrysene	21.176	228	18693	0.386	ng	99
34) Bis(2-ethylhexyl)phtha...	21.077	149	8691	0.338	ng	100
36) Indeno(1,2,3-cd)pyrene	25.450	276	23546	0.375	ng	99
37) Benzo(b)fluoranthene	22.660	252	20039	0.379	ng	99
38) Benzo(k)fluoranthene	22.701	252	20114	0.380	ng	98
39) Benzo(a)pyrene	23.210	252	17596	0.378	ng	99
40) Dibenzo(a,h)anthracene	25.467	278	18547	0.373	ng	98
41) Benzo(g,h,i)perylene	26.104	276	19649	0.372	ng	99

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

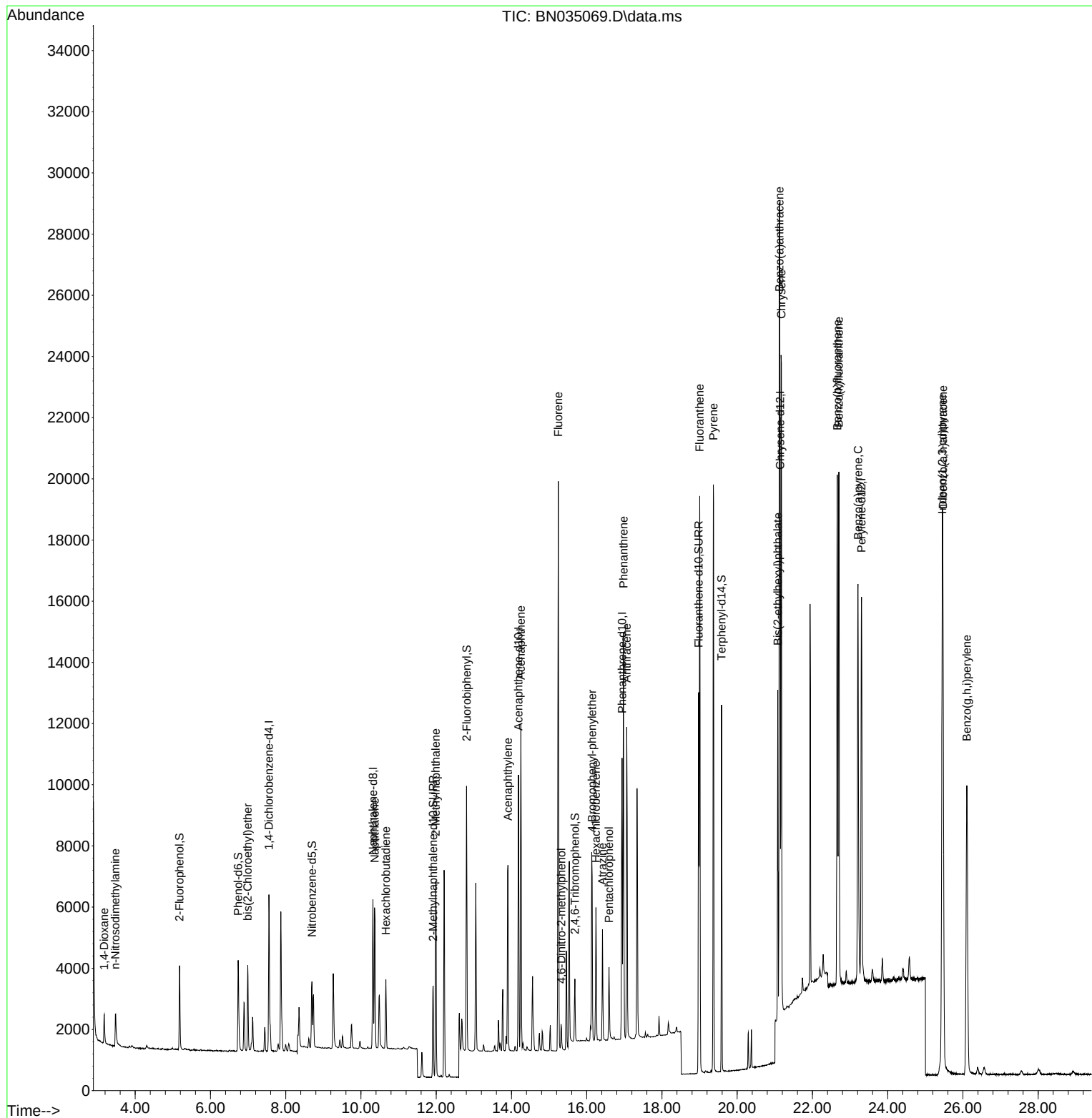
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Data File : BN035069.D
Acq On : 13 Nov 2024 16:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

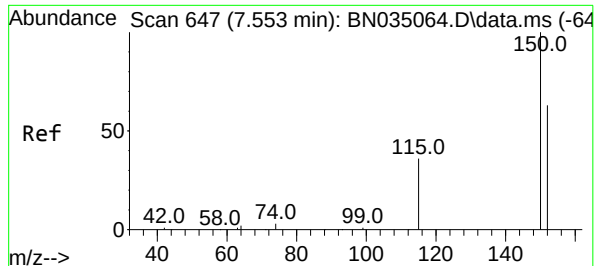
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

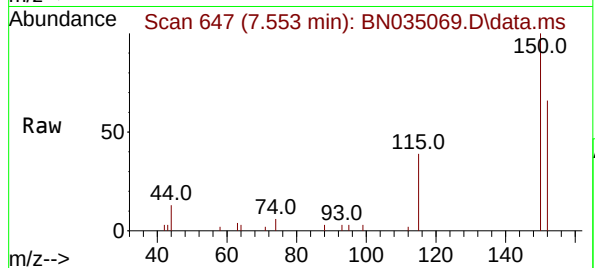
Quant Time: Nov 13 17:18:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 647
Delta R.T. 0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

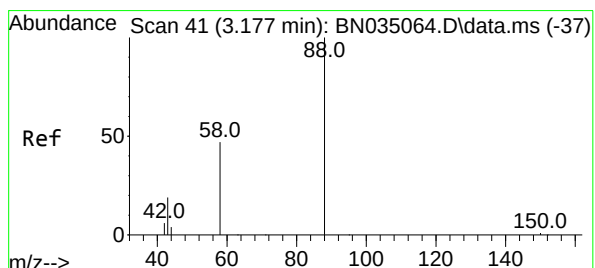
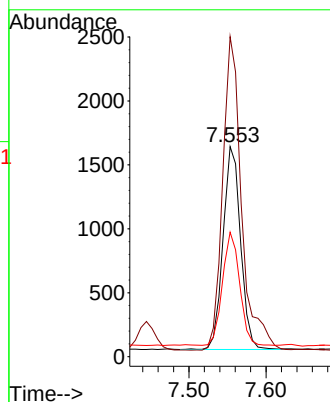
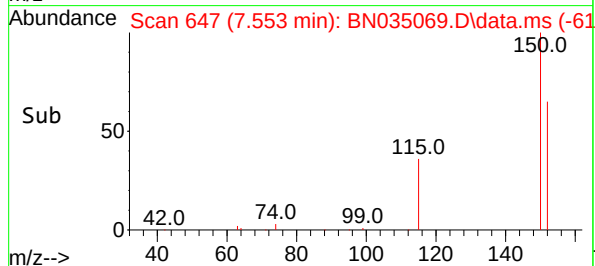
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion:152 Resp: 2509
Ion Ratio Lower Upper
152 100
150 152.3 124.5 186.7
115 59.3 47.8 71.6

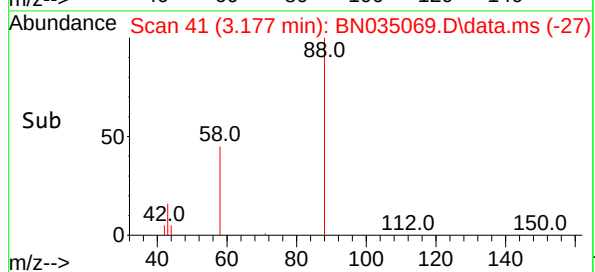
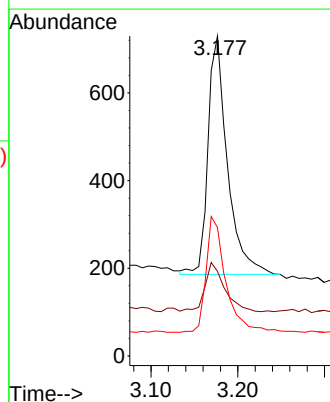
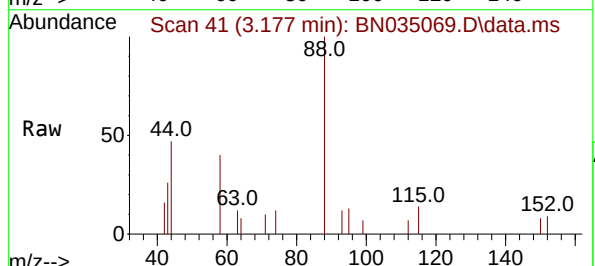
Manual Integrations
APPROVED

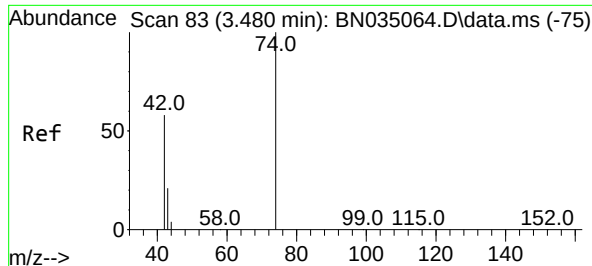
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#2
1,4-Dioxane
Concen: 0.371 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 88 Resp: 845
Ion Ratio Lower Upper
88 100
43 20.8 16.9 25.3
58 49.1 39.0 58.4





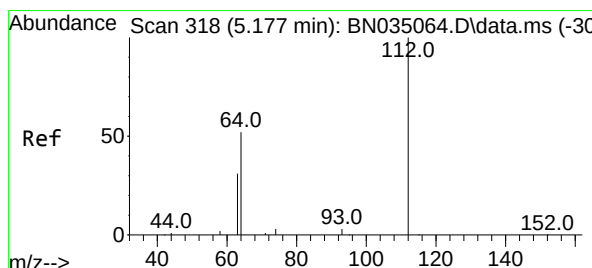
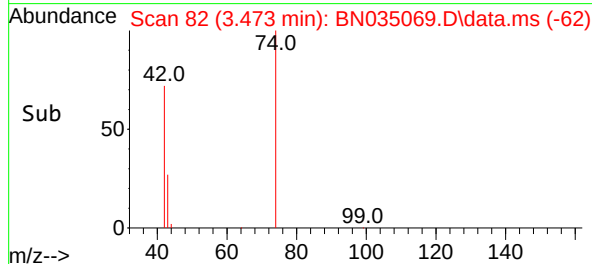
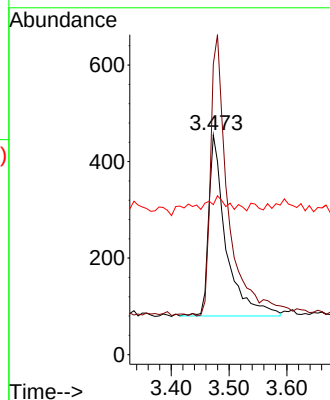
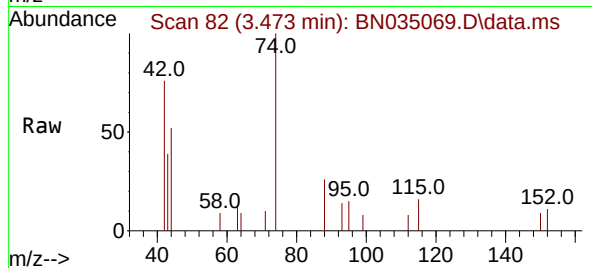
#3
n-Nitrosodimethylamine
Concen: 0.368 ng
RT: 3.473 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Tgt Ion: 42 Resp: 78
Ion Ratio Lower Upper
42 100
74 158.6 120.8 181.2
44 8.7 2.9 4.3

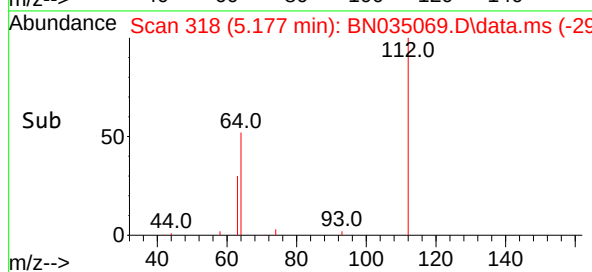
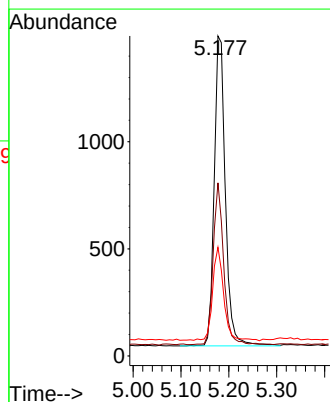
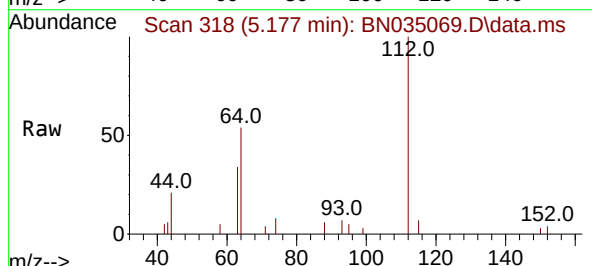
Manual Integrations
APPROVED

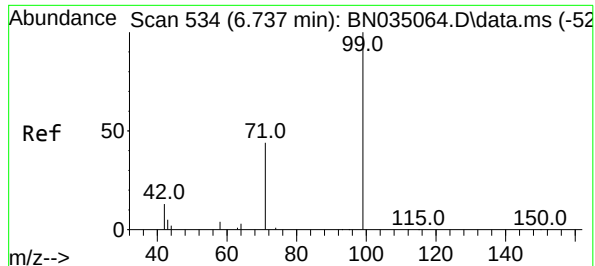
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#4
2-Fluorophenol
Concen: 0.368 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:112 Resp: 2342
Ion Ratio Lower Upper
112 100
64 48.8 39.7 59.5
63 30.1 23.0 34.4





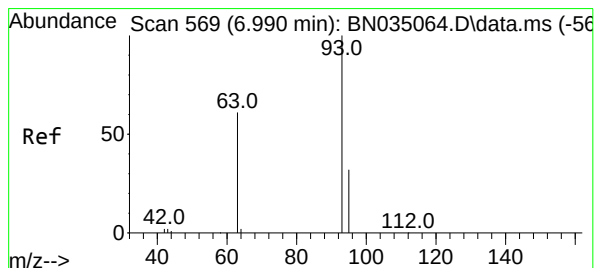
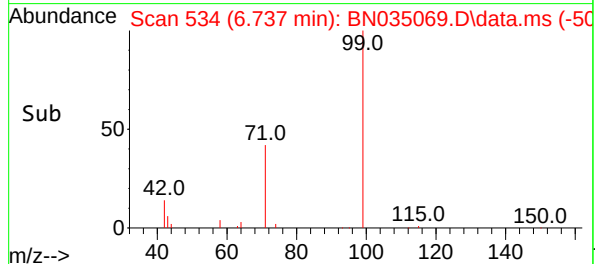
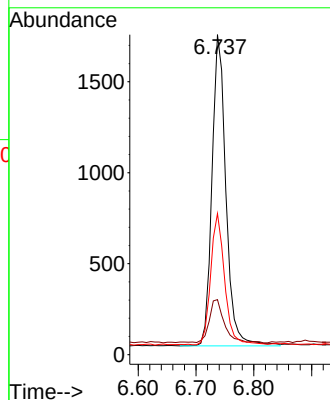
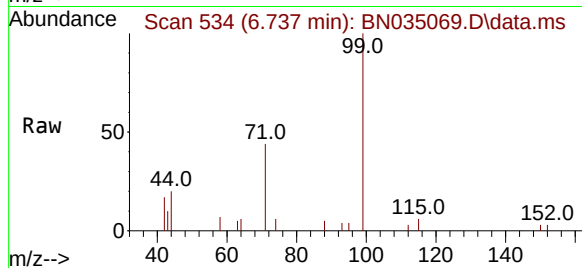
#5
Phenol-d6
Concen: 0.359 ng
RT: 6.737 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Tgt Ion: 99 Resp: 286
Ion Ratio Lower Upper
99 100
42 14.4 11.4 17.0
71 42.1 34.6 51.8

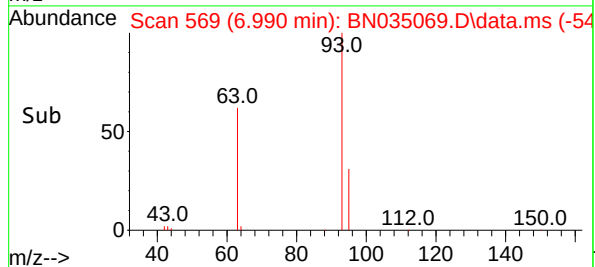
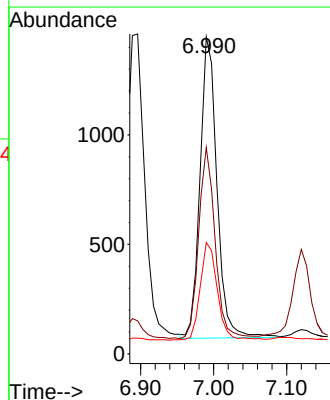
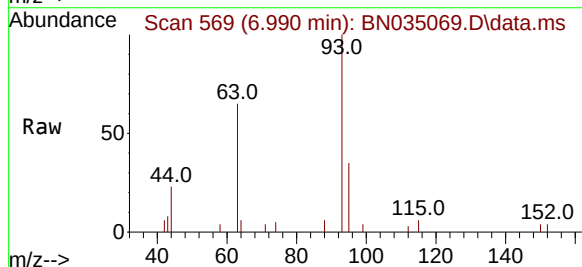
Manual Integrations
APPROVED

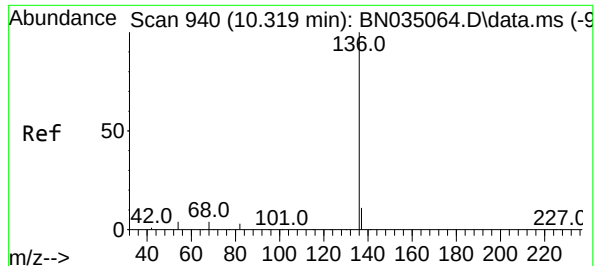
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.370 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 93 Resp: 2218
Ion Ratio Lower Upper
93 100
63 61.3 47.4 71.2
95 33.0 26.2 39.4





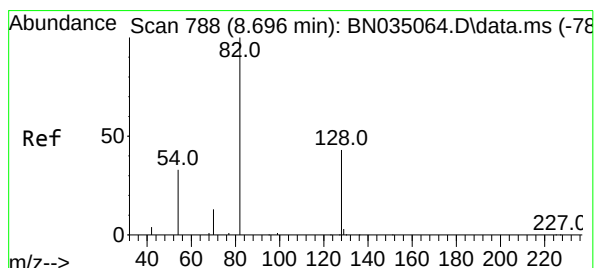
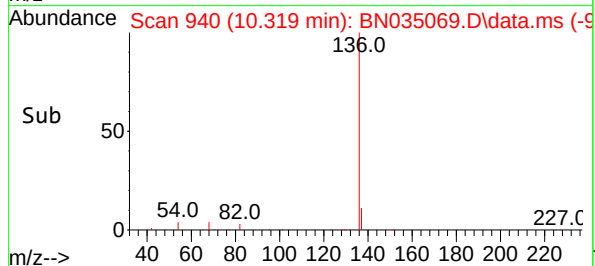
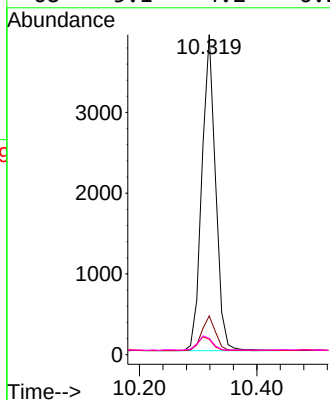
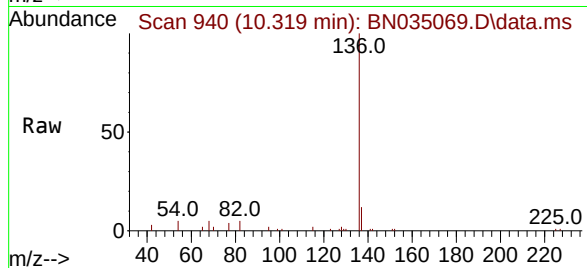
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Tgt Ion:	136	Resp:	636
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.8	14.8
54	4.8	4.0	6.0
68	5.1	4.2	6.2

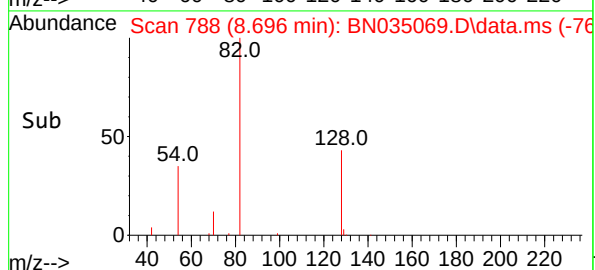
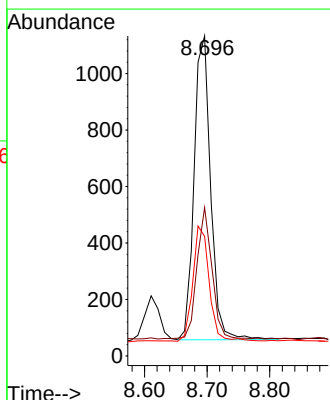
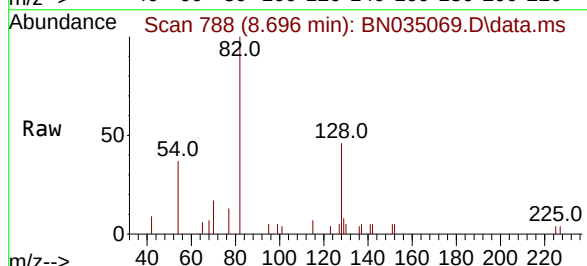
Manual Integrations
APPROVED

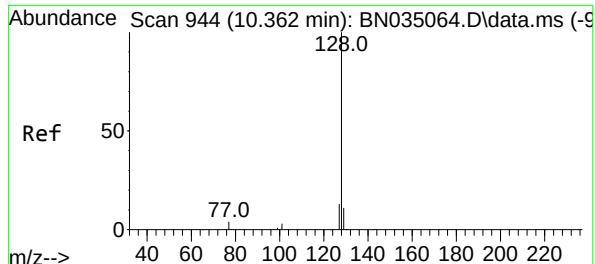
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:	82	Resp:	1983
Ion	Ratio	Lower	Upper
82	100		
128	46.4	36.5	54.7
54	37.4	28.7	43.1





#9

Naphthalene

Concen: 0.366 ng

RT: 10.362 min Scan# 944

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

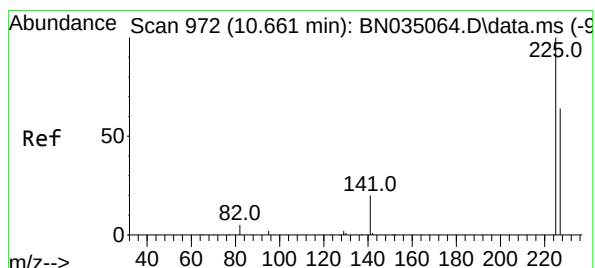
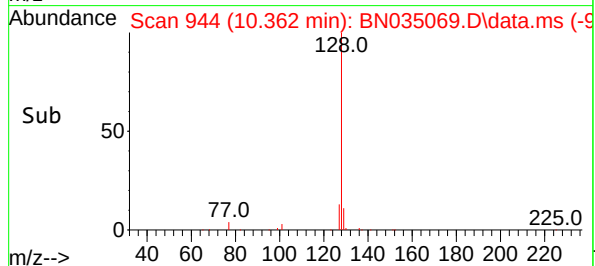
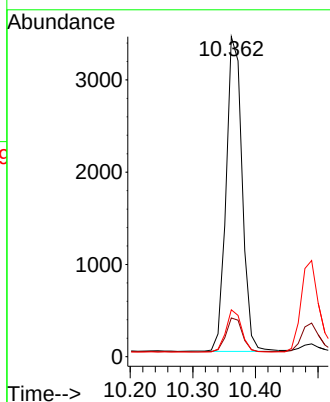
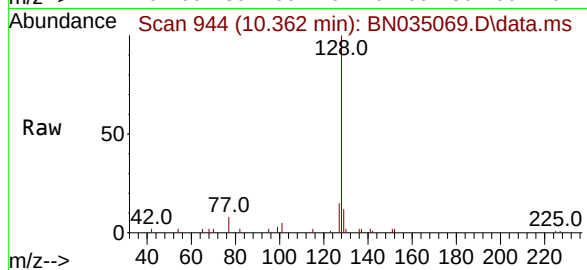
ICVBN111324

Tgt Ion:	128	Resp:	609
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.6	14.4
127	14.7	11.6	17.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#10

Hexachlorobutadiene

Concen: 0.373 ng

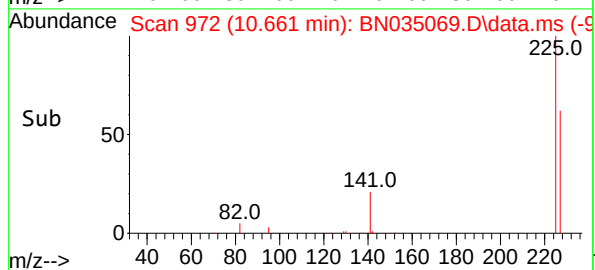
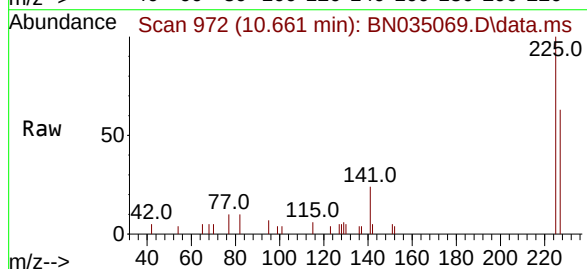
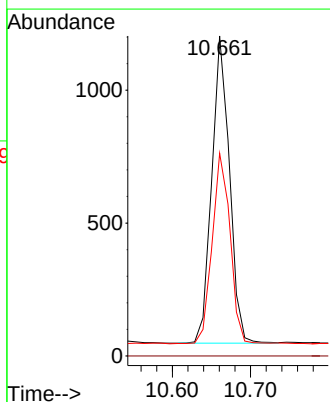
RT: 10.661 min Scan# 972

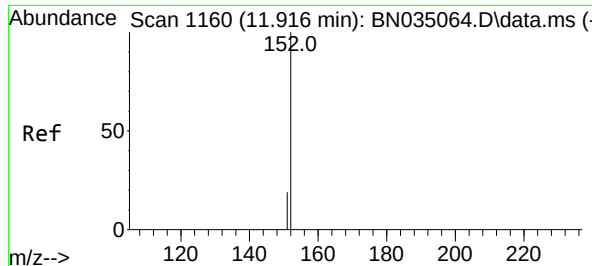
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

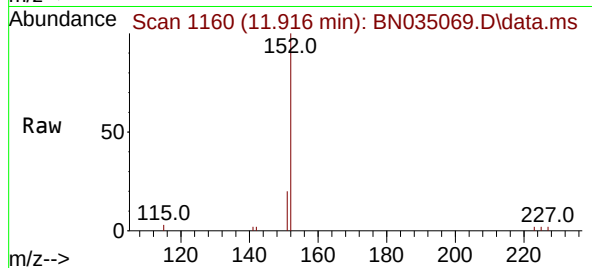
Tgt Ion:	225	Resp:	1817
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	51.5	77.3





#11
2-Methylnaphthalene-d10
Concen: 0.367 ng
RT: 11.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

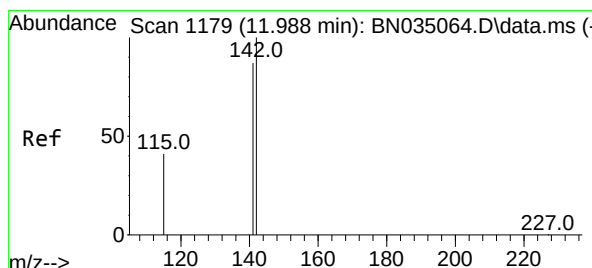
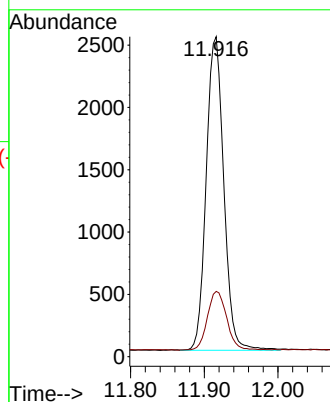
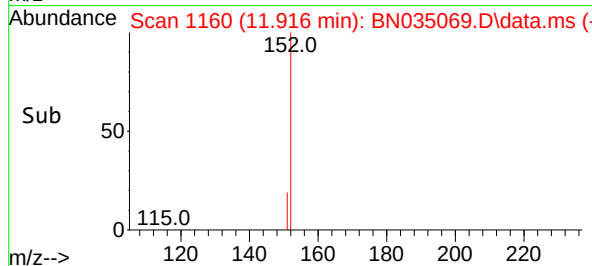
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion:152 Resp: 4160
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.4

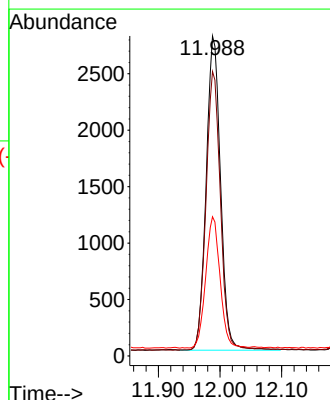
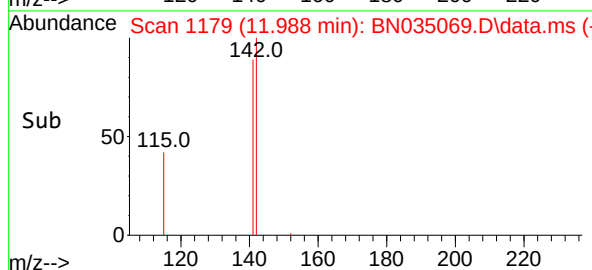
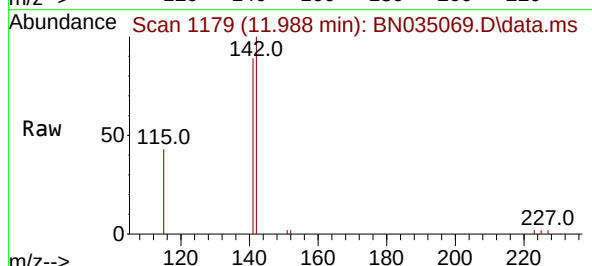
Manual Integrations
APPROVED

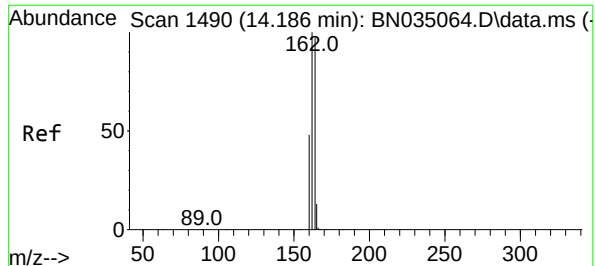
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

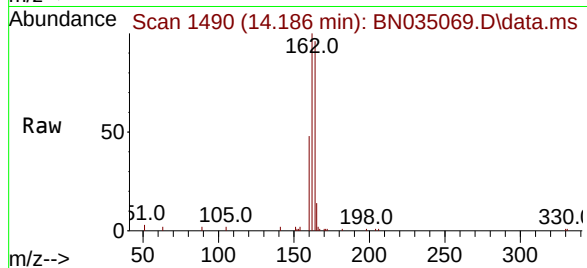
Tgt Ion:142 Resp: 4513
Ion Ratio Lower Upper
142 100
141 88.9 70.1 105.1
115 43.5 34.4 51.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

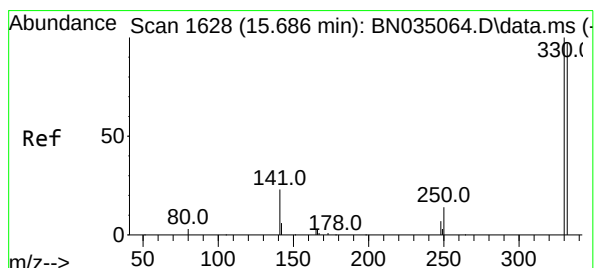
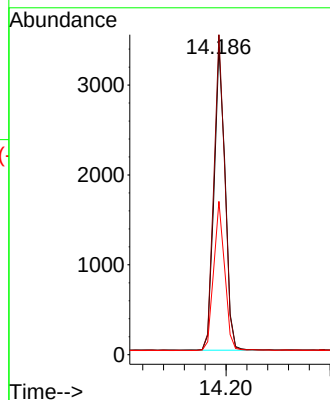
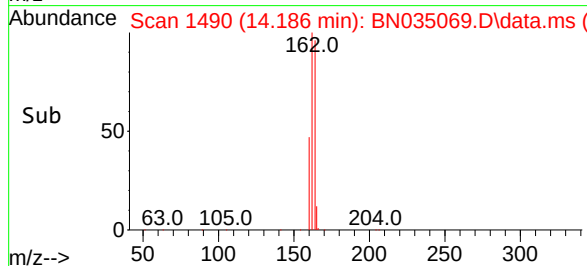
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



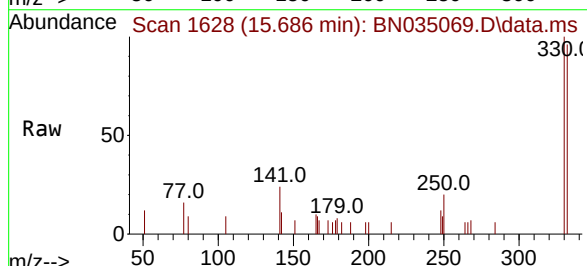
Tgt Ion:164 Resp: 496
Ion Ratio Lower Upper
164 100
162 104.1 82.2 123.2
160 49.8 40.2 60.4

Manual Integrations
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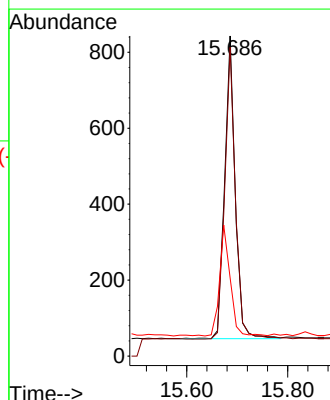
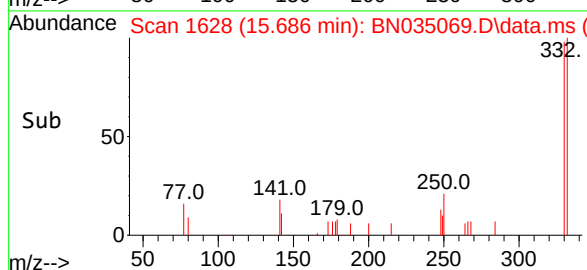
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

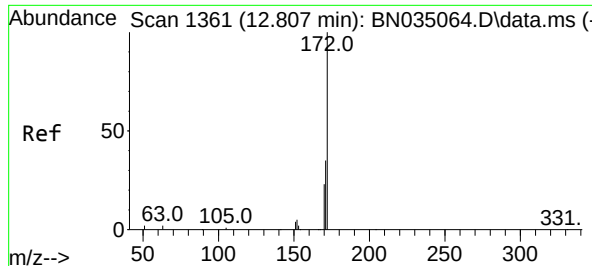


#14
2,4,6-Tribromophenol
Concen: 0.322 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51



Tgt Ion:330 Resp: 1154
Ion Ratio Lower Upper
330 100
332 97.3 76.9 115.3
141 36.7 29.6 44.4





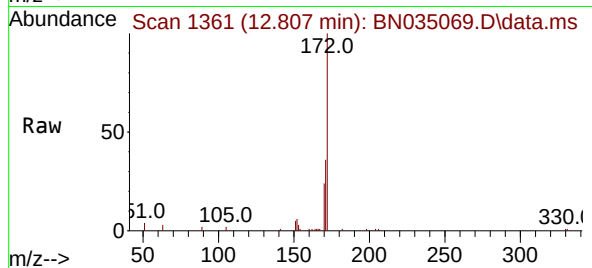
#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.807 min Scan# 1361
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

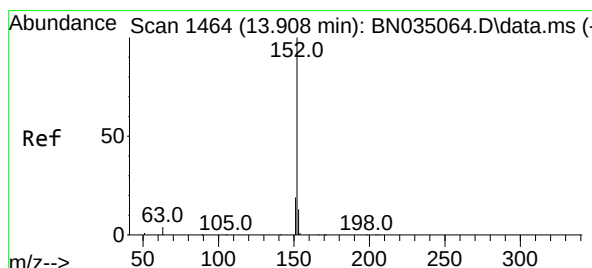
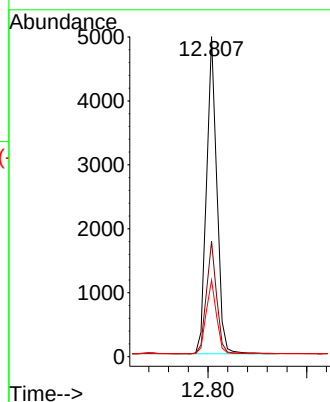
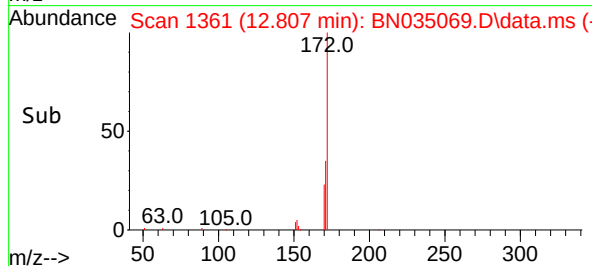


Tgt Ion:172 Resp: 7200
Ion Ratio Lower Upper
172 100
171 36.1 28.2 42.4
170 23.9 19.0 28.6

Manual Integrations
APPROVED

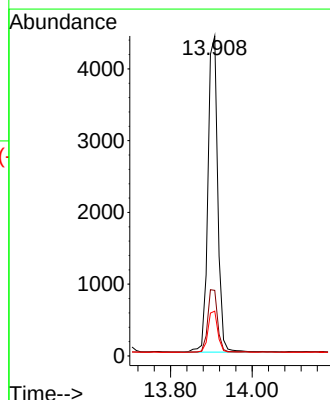
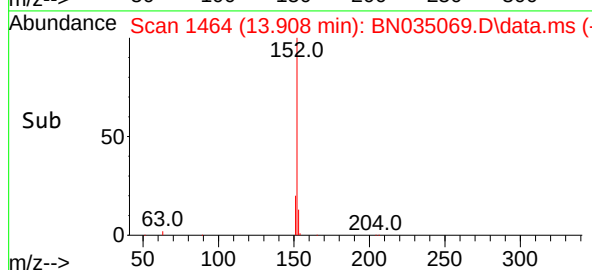
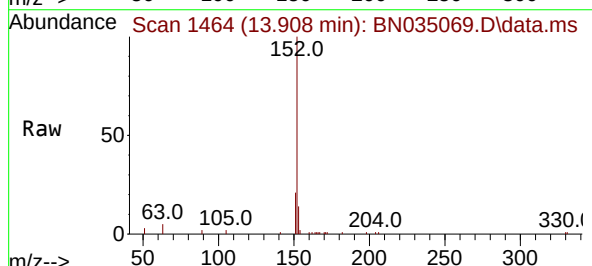
Reviewed By :Yogesh Patel 11/14/2024

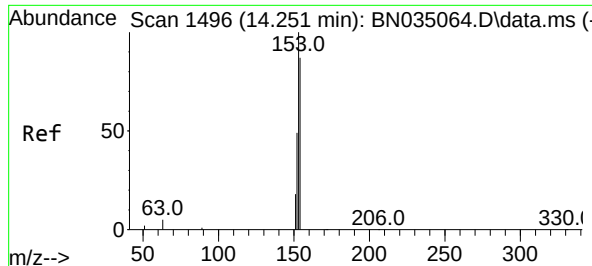
Supervised By :mohammad ahmed 11/14/2024



#16
Acenaphthylene
Concen: 0.348 ng
RT: 13.908 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

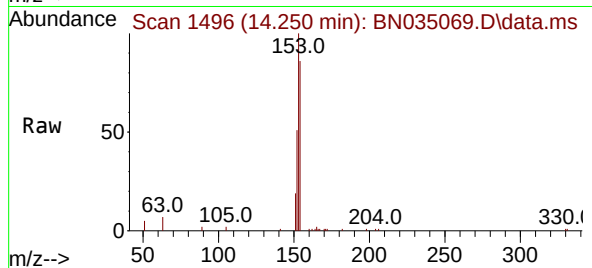
Tgt Ion:152 Resp: 7387
Ion Ratio Lower Upper
152 100
151 20.0 15.8 23.8
153 13.0 10.2 15.4





#17
Acenaphthene
Concen: 0.359 ng
RT: 14.250 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

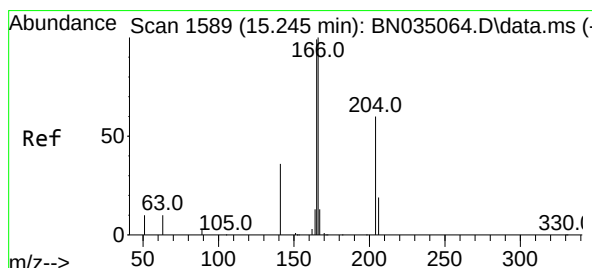
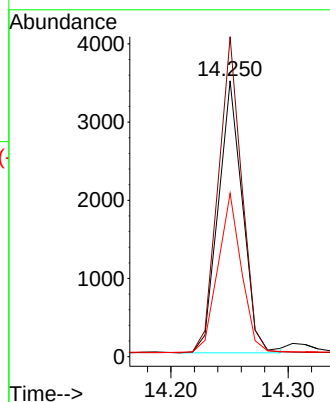
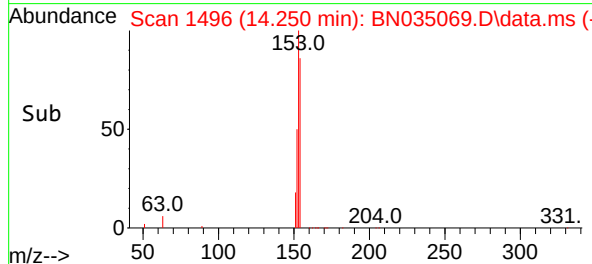
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion:154 Resp: 499
Ion Ratio Lower Upper
154 100
153 113.2 91.6 137.4
152 57.7 45.8 68.6

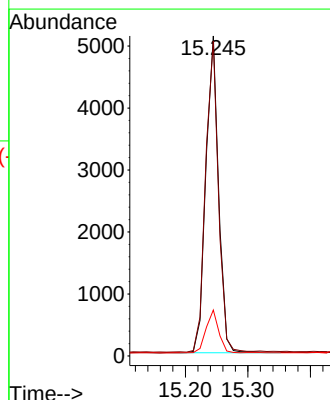
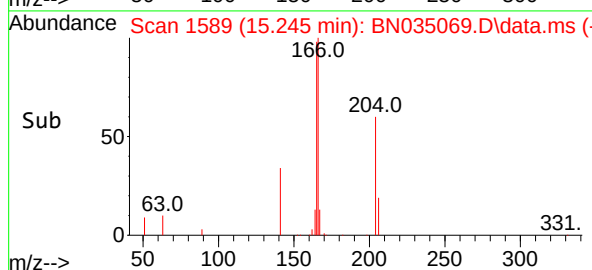
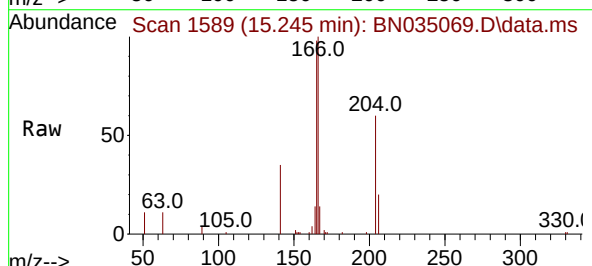
Manual Integrations
APPROVED

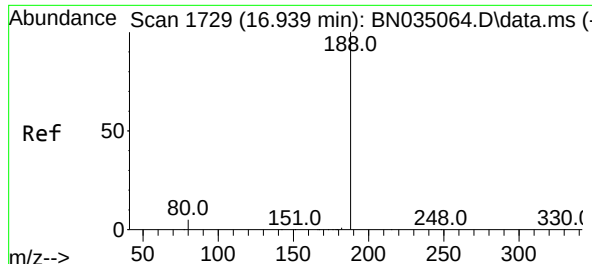
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#18
Fluorene
Concen: 0.352 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:166 Resp: 7206
Ion Ratio Lower Upper
166 100
165 99.0 79.1 118.7
167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.939 min Scan# 1729

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

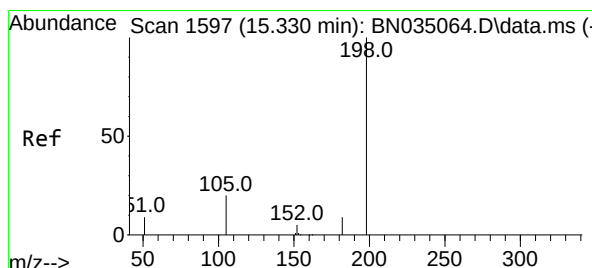
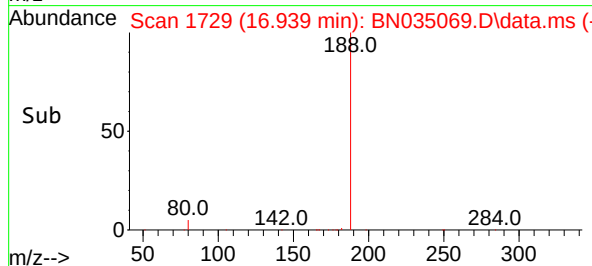
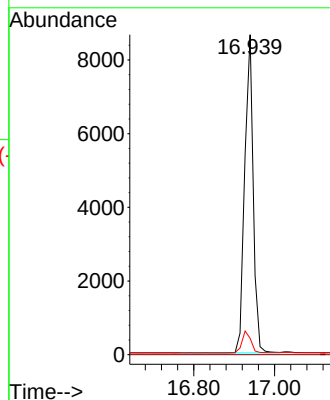
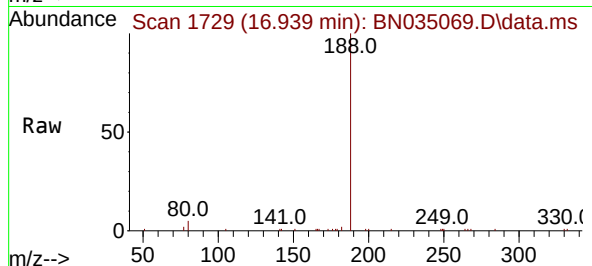
ClientSampleId :

ICVBN111324

Tgt Ion:188	Resp:	1268
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	5.1	4.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.330 ng m

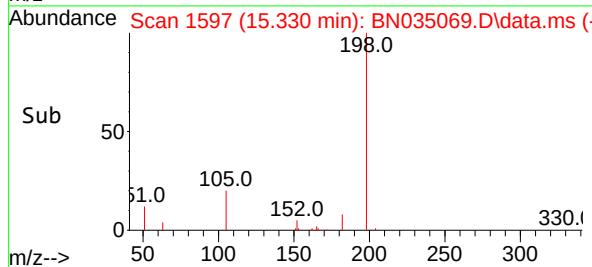
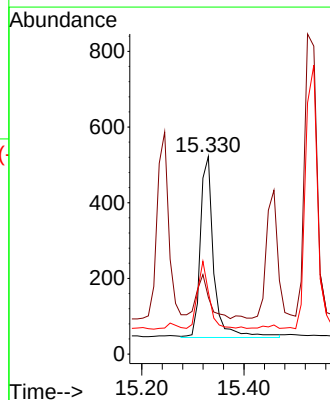
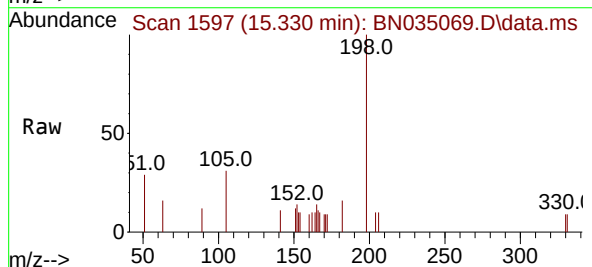
RT: 15.330 min Scan# 1597

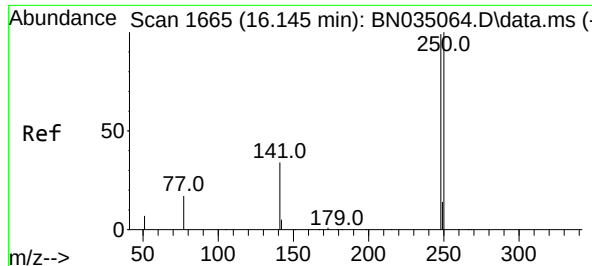
Delta R.T. 0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

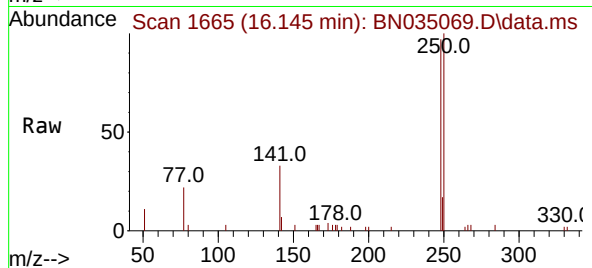
Tgt Ion:198	Resp:	870
Ion Ratio	Lower	Upper
198	100	
51	28.7	29.9
105	31.4	35.5





#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 16.145 min Scan# 1665
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

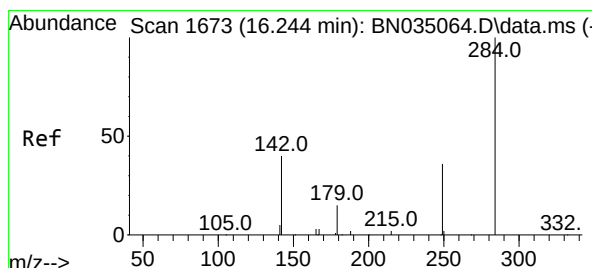
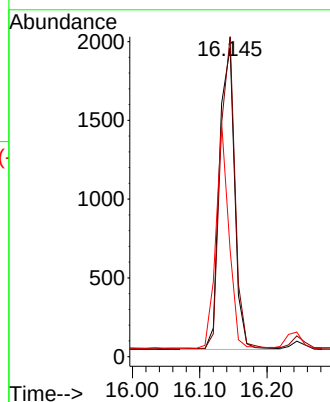
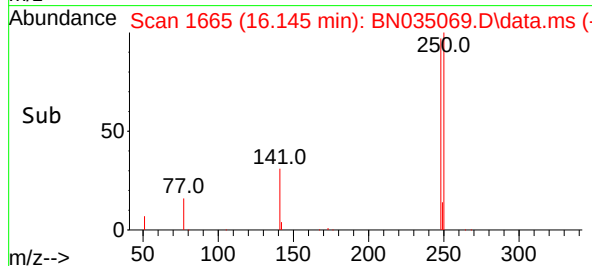
Instrument :
BNA_N
ClientSampleId :
ICVBN111324



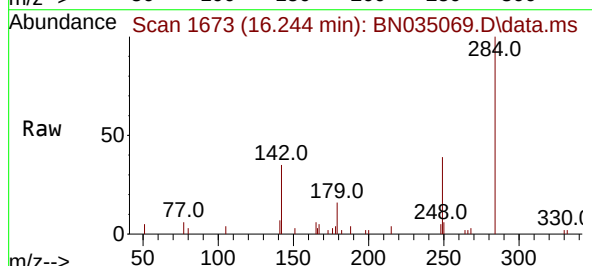
Tgt Ion:248 Resp: 300
Ion Ratio Lower Upper
248 100
250 103.6 81.2 121.8
141 34.5 29.1 43.7

Manual Integrations
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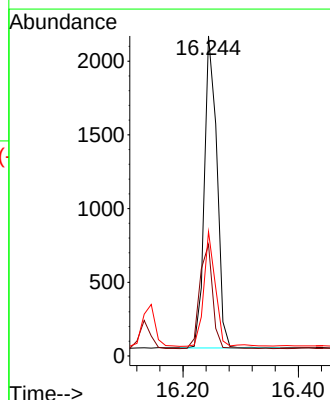
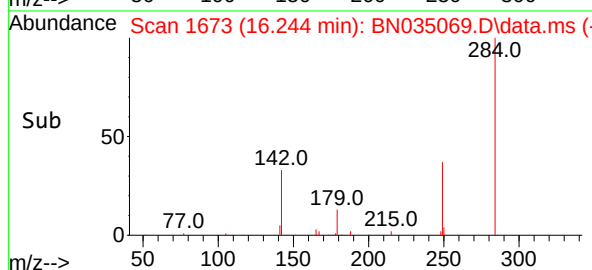
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

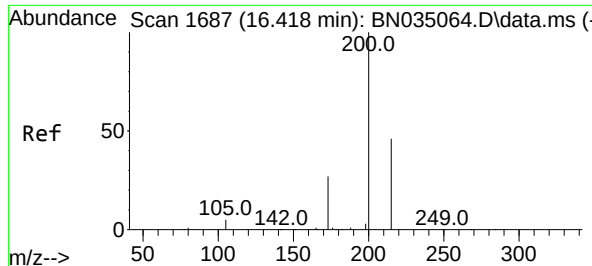


#22
Hexachlorobenzene
Concen: 0.379 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51



Tgt Ion:284 Resp: 3175
Ion Ratio Lower Upper
284 100
142 34.7 28.2 42.4
249 33.7 26.2 39.2





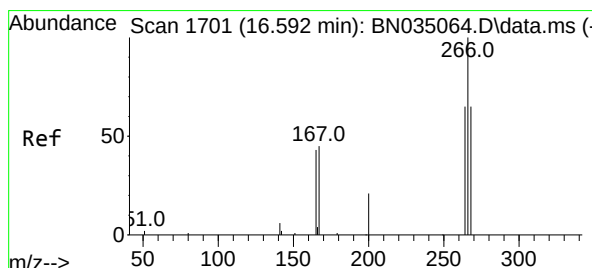
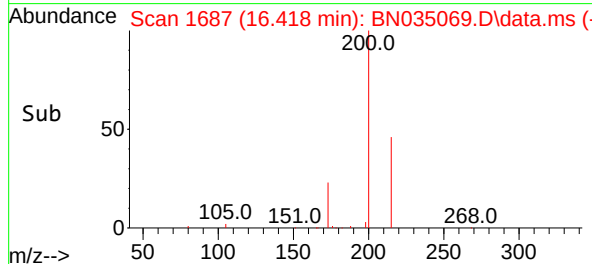
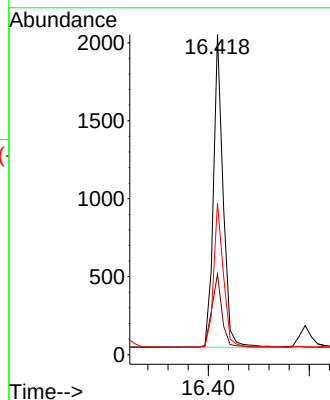
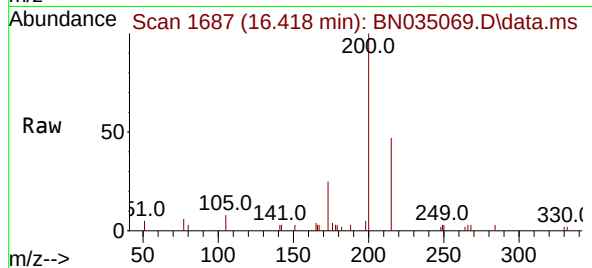
#23
Atrazine
Concen: 0.370 ng
RT: 16.418 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Tgt Ion	200	Resp:	268
Ion Ratio	Lower	Upper	
200	100		
173	25.1	22.6	33.8
215	47.3	37.8	56.6

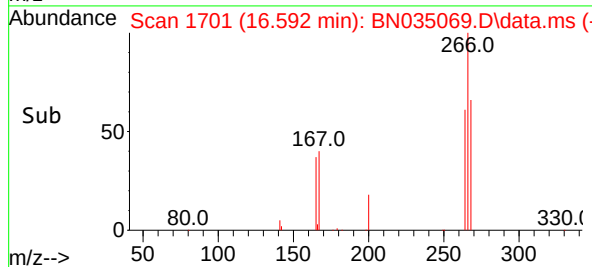
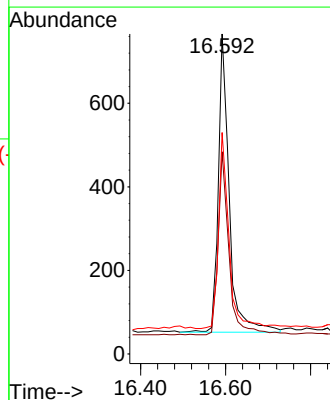
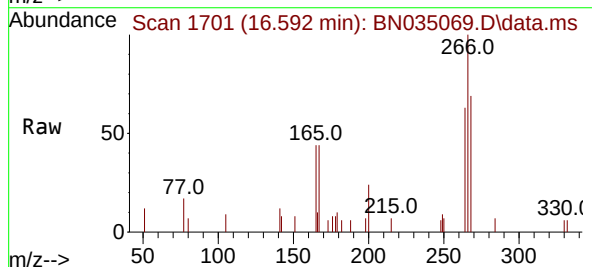
Manual Integrations
APPROVED

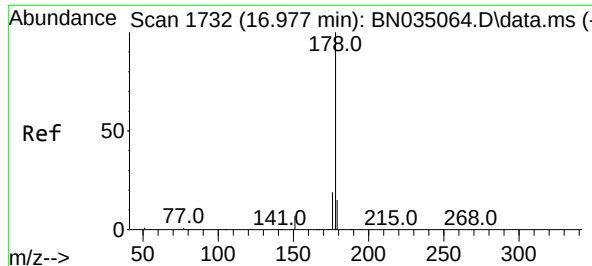
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#24
Pentachlorophenol
Concen: 0.324 ng
RT: 16.592 min Scan# 1701
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion	266	Resp:	1269
Ion Ratio	Lower	Upper	
266	100		
264	60.5	49.4	74.0
268	63.4	52.6	79.0





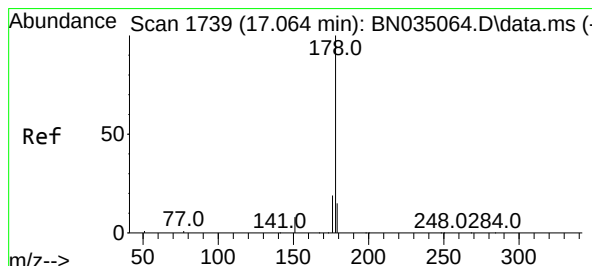
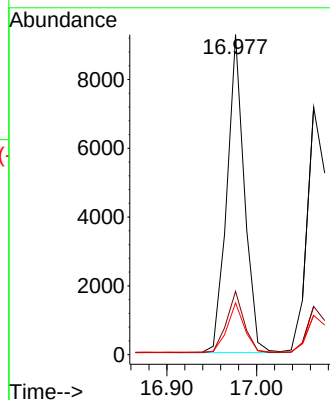
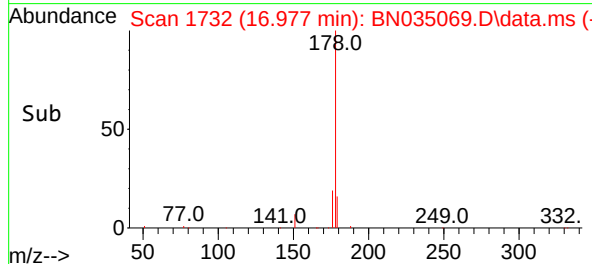
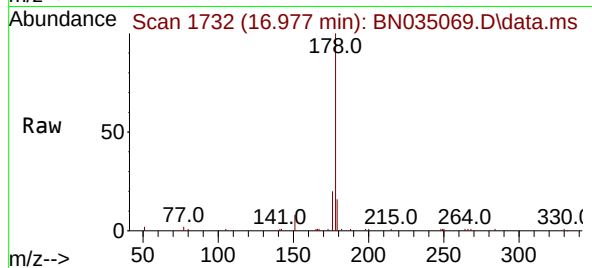
#25
Phenanthrene
Concen: 0.375 ng
RT: 16.977 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.2	22.8
179	15.6	12.6	18.8

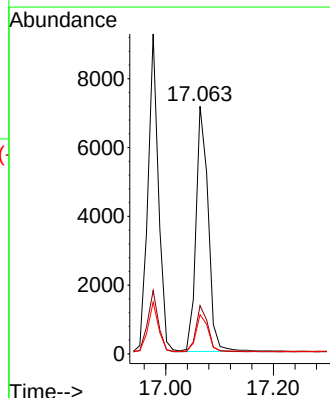
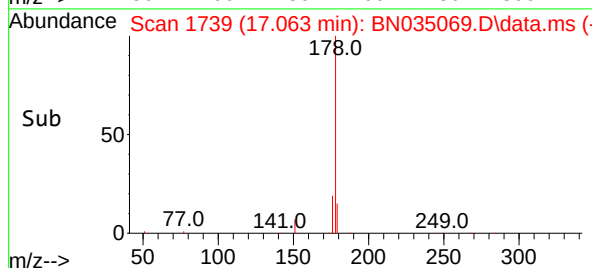
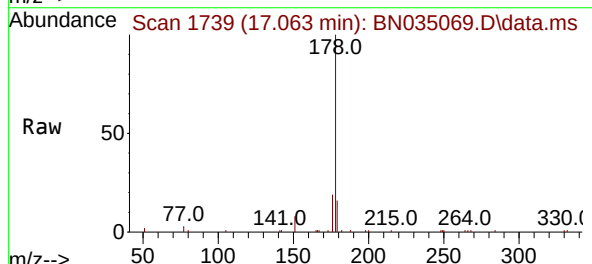
Manual Integrations
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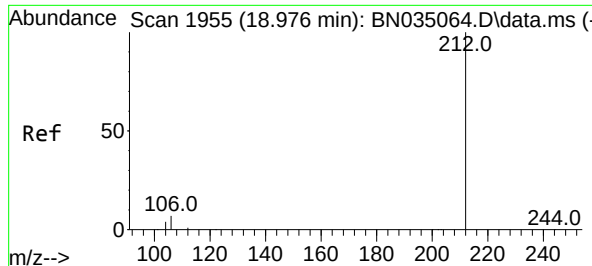
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#26
Anthracene
Concen: 0.366 ng
RT: 17.063 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.2	12.2	18.2





#27

Fluoranthene-d10

Concen: 0.374 ng

RT: 18.976 min Scan# 1955

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

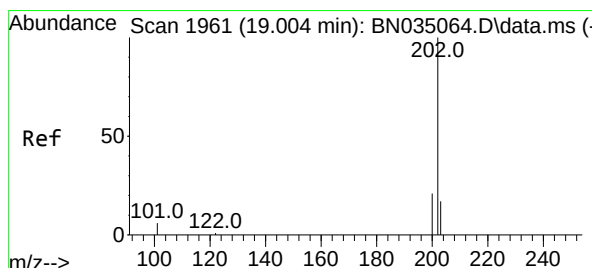
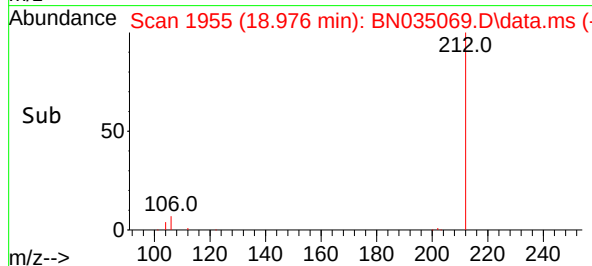
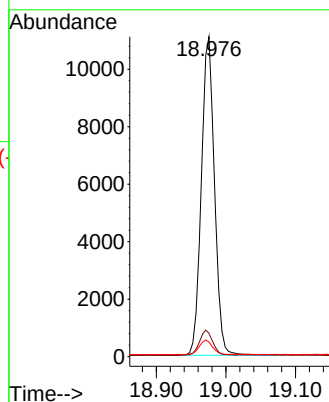
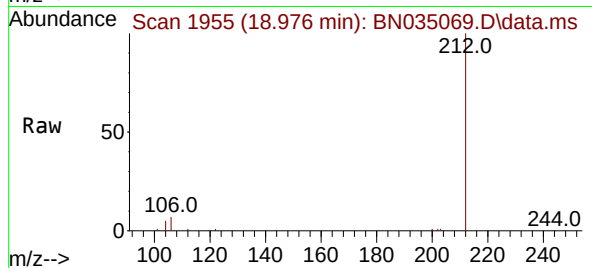
Tgt Ion:	212	Resp:	14530
Ion Ratio	Lower	Upper	
212	100		
106	7.8	6.0	9.0
104	4.5	3.5	5.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#28

Fluoranthene

Concen: 0.372 ng

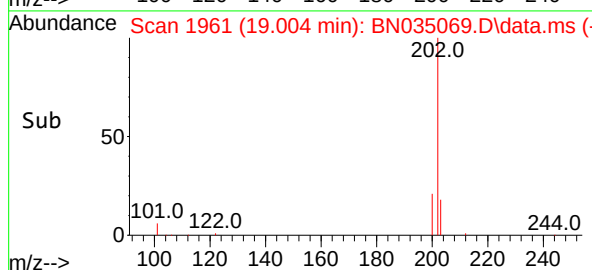
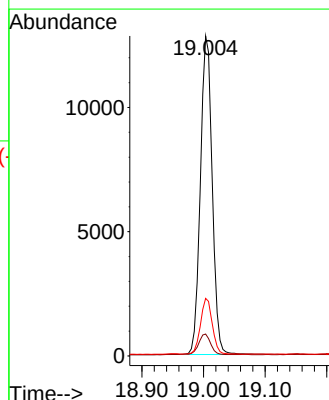
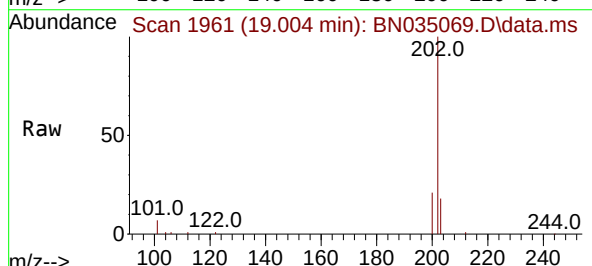
RT: 19.004 min Scan# 1961

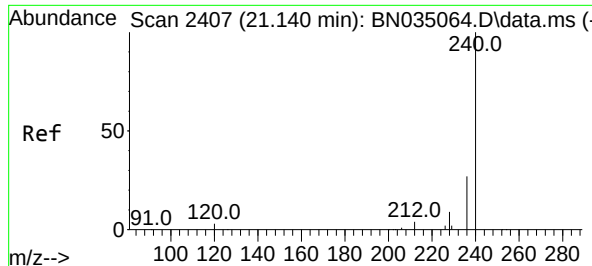
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Tgt Ion:	202	Resp:	17084
Ion Ratio	Lower	Upper	
202	100		
101	6.6	5.2	7.8
203	17.3	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.140 min Scan# 2407

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

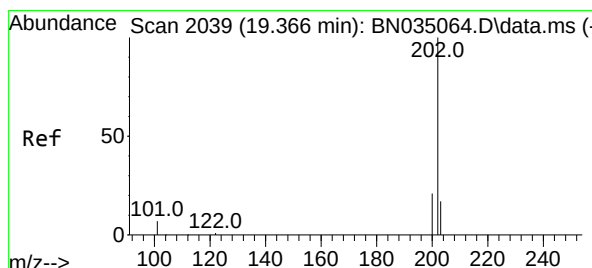
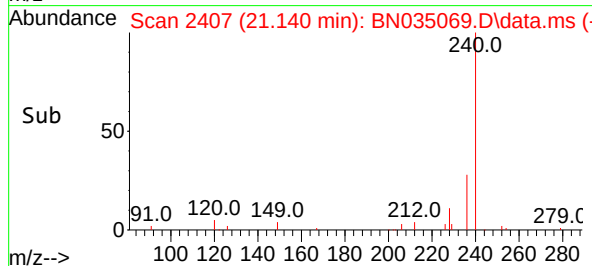
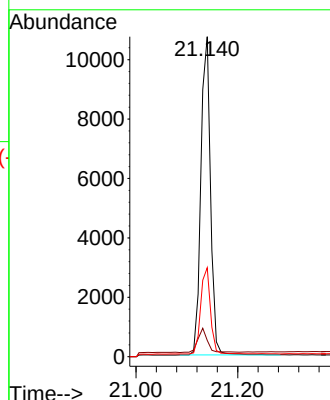
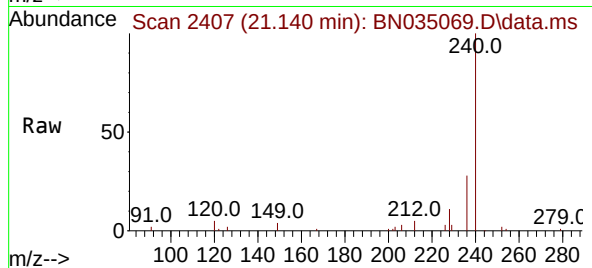
ClientSampleId :

ICVBN111324

Tgt Ion:240 Resp: 14058
Ion Ratio Lower Upper
240 100
120 5.1 3.8 5.6
236 27.8 22.2 33.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#30

Pyrene

Concen: 0.376 ng

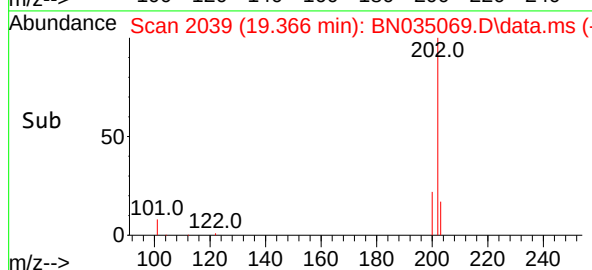
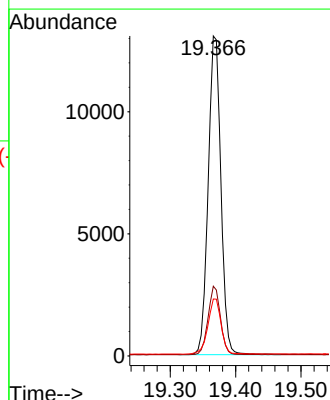
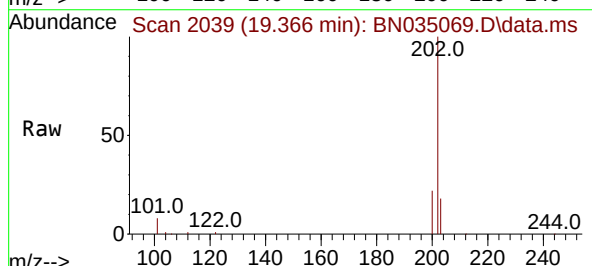
RT: 19.366 min Scan# 2039

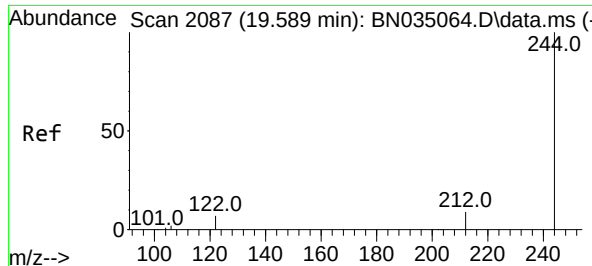
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Tgt Ion:202 Resp: 17580
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 18.1 14.2 21.4





#31
Terphenyl-d14
Concen: 0.381 ng
RT: 19.584 min Scan# 2087
Delta R.T. -0.005 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

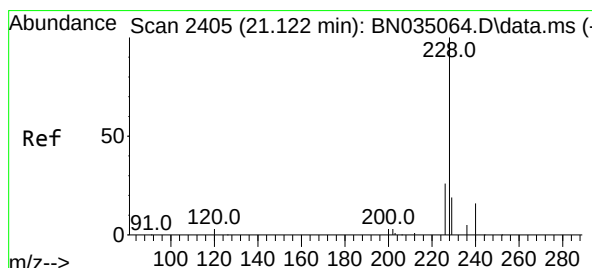
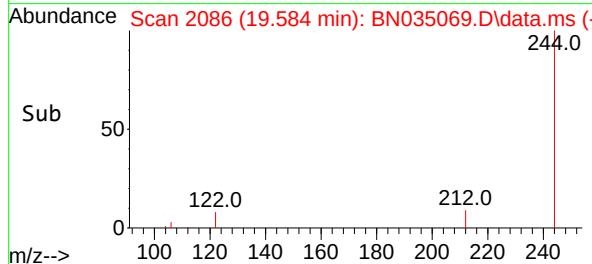
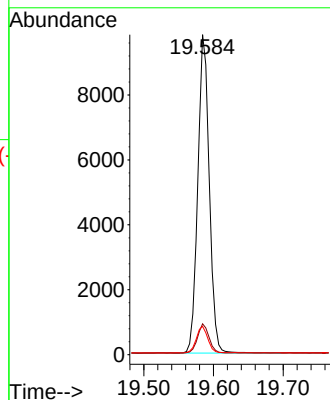
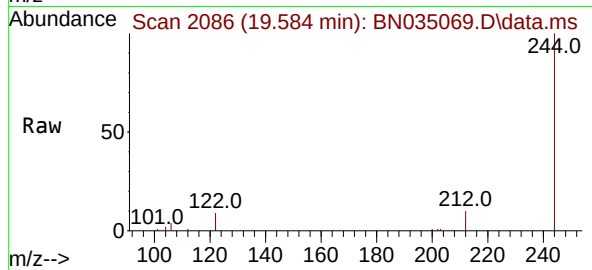
ClientSampleId :

ICVBN111324

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.6	11.4
122	8.9	6.1	9.1

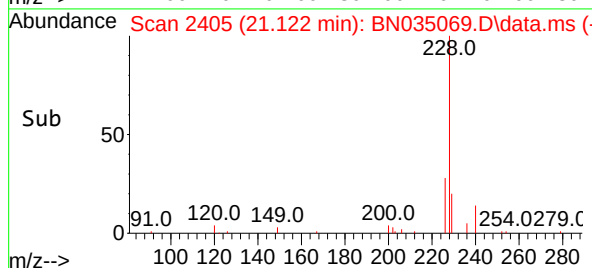
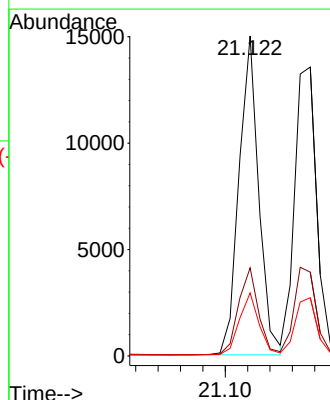
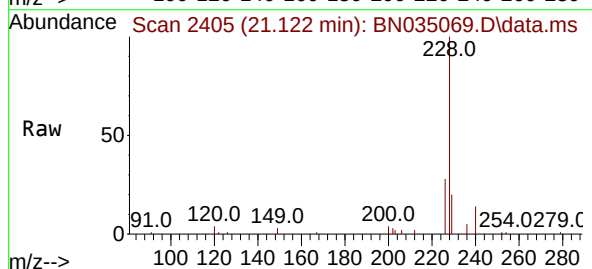
Manual Integrations
APPROVED

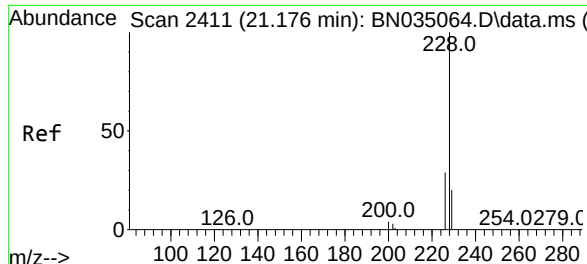
Reviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024



#32
Benzo(a)anthracene
Concen: 0.376 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.6	21.4	32.0
229	19.7	15.7	23.5





#33

Chrysene

Concen: 0.386 ng

RT: 21.176 min Scan# 2411

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

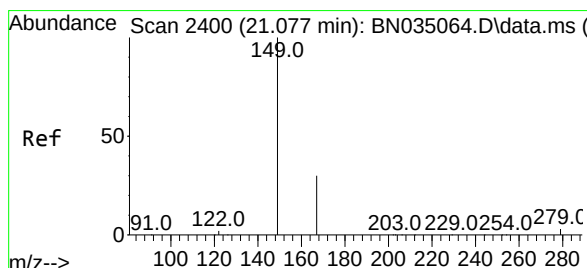
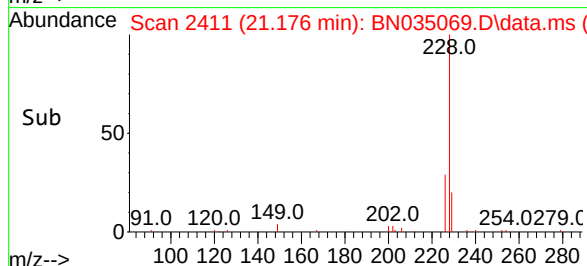
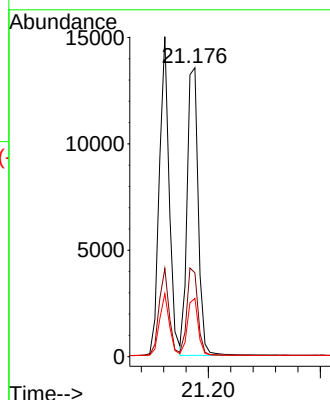
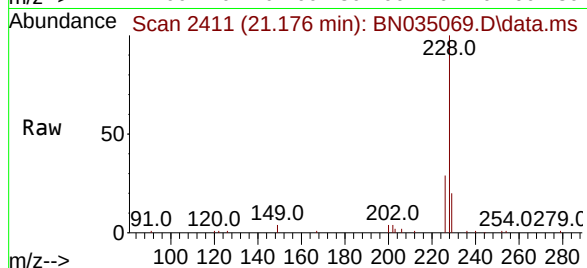
ICVBN111324

Tgt Ion:	228	Resp:	1869
Ion Ratio	Lower	Upper	
228	100		
226	29.0	23.7	35.5
229	20.2	16.2	24.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.338 ng

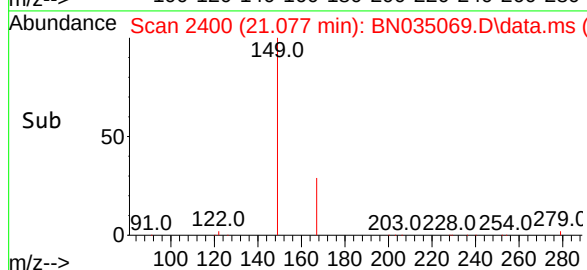
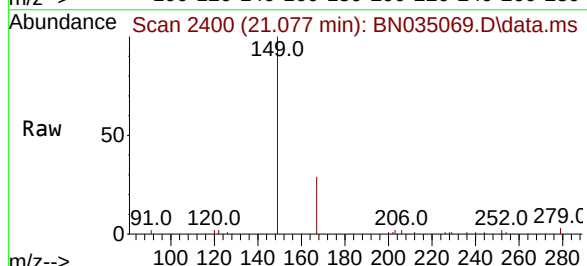
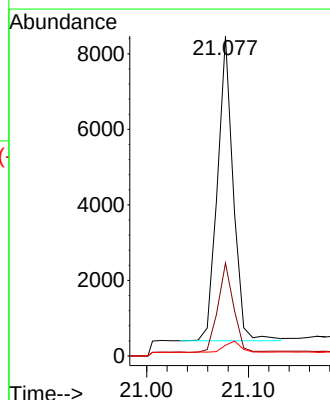
RT: 21.077 min Scan# 2400

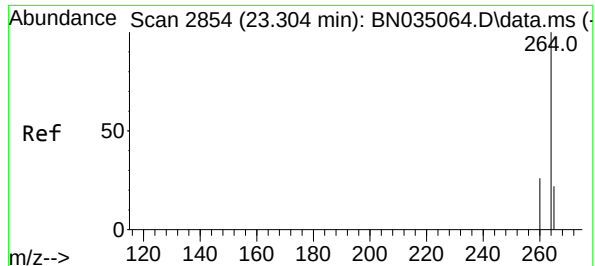
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Tgt Ion:	149	Resp:	8691
Ion Ratio	Lower	Upper	
149	100		
167	29.0	23.2	34.8
279	3.9	3.2	4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.304 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035069.D

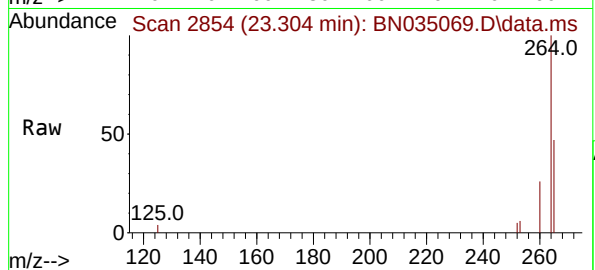
Acq: 13 Nov 2024 16:51

Instrument :

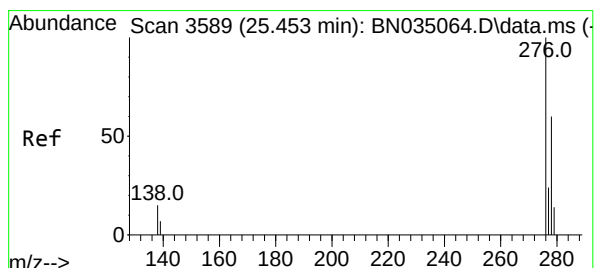
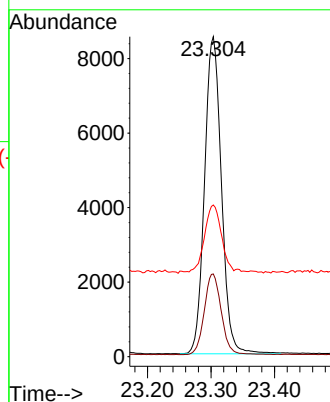
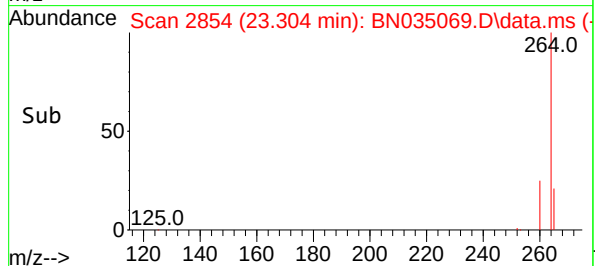
BNA_N

ClientSampleId :

ICVBN111324



Tgt Ion:	264	Resp:	15724
Ion Ratio	Lower	Upper	
264	100		
260	25.8	20.9	31.3
265	47.4	35.4	53.2

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 11/14/2024
Supervised By :mohammad ahmed 11/14/2024

#36

Indeno(1,2,3-cd)pyrene

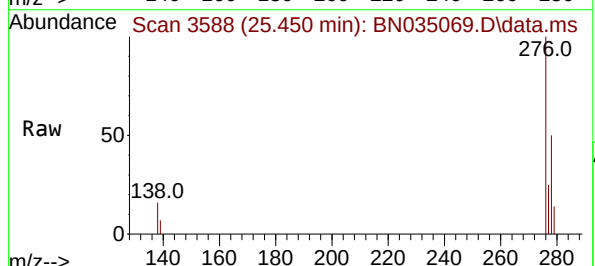
Concen: 0.375 ng

RT: 25.450 min Scan# 3588

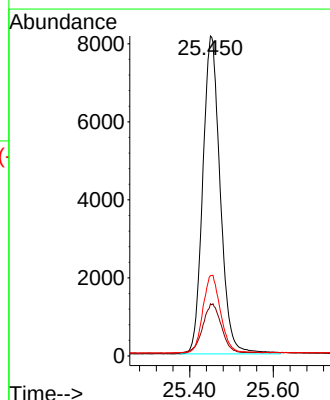
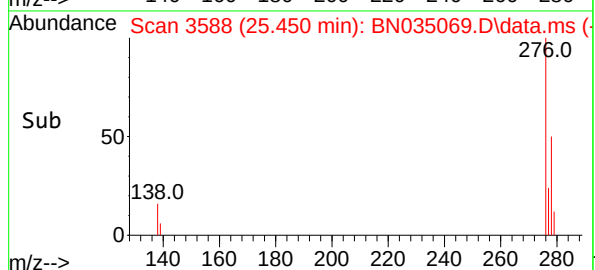
Delta R.T. -0.003 min

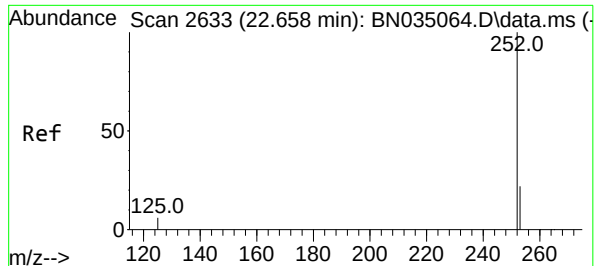
Lab File: BN035069.D

Acq: 13 Nov 2024 16:51



Tgt Ion:	276	Resp:	23546
Ion Ratio	Lower	Upper	
276	100		
138	16.9	13.0	19.4
277	24.2	19.8	29.6





#37

Benzo(b)fluoranthene

Concen: 0.379 ng

RT: 22.660 min Scan# 2634

Delta R.T. 0.003 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

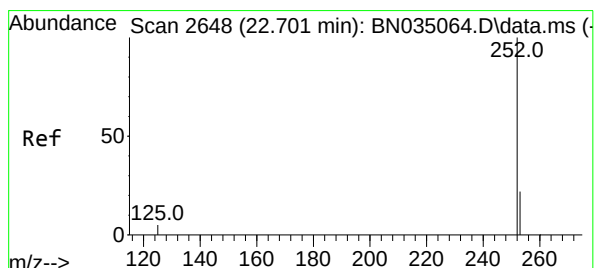
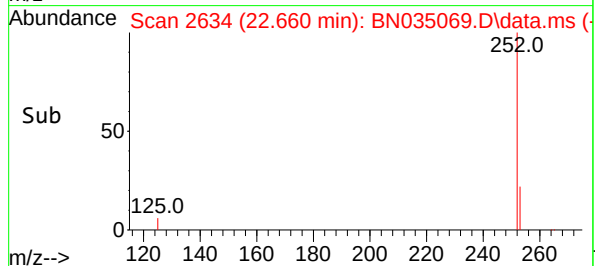
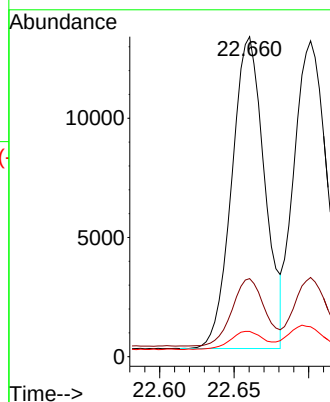
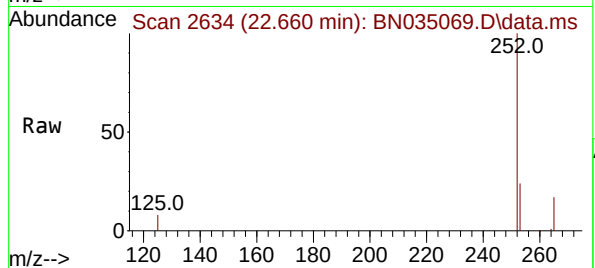
Tgt Ion:	252	Resp:	20039
Ion Ratio	Lower	Upper	
252	100		
253	24.4	19.3	28.9
125	7.9	6.2	9.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#38

Benzo(k)fluoranthene

Concen: 0.380 ng

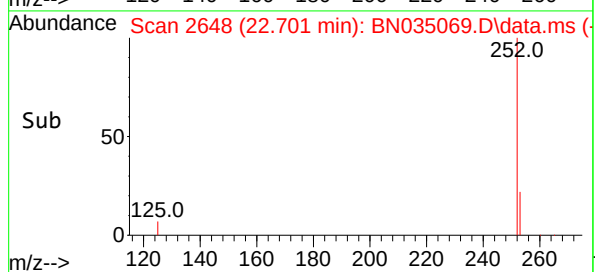
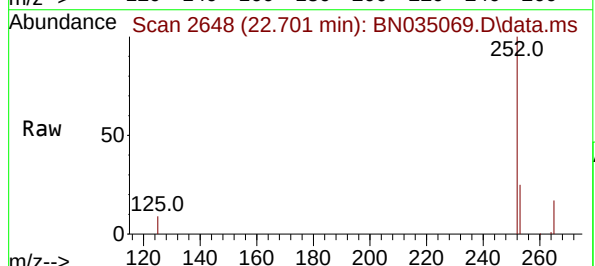
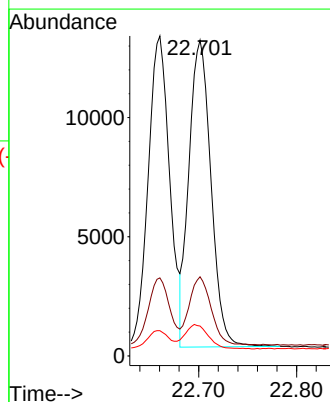
RT: 22.701 min Scan# 2648

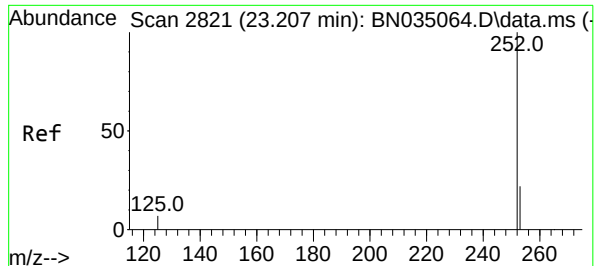
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Tgt Ion:	252	Resp:	20114
Ion Ratio	Lower	Upper	
252	100		
253	25.1	19.5	29.3
125	9.5	6.5	9.7





#39

Benzo(a)pyrene

Concen: 0.378 ng

RT: 23.210 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

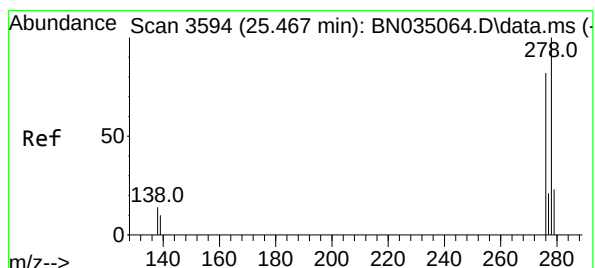
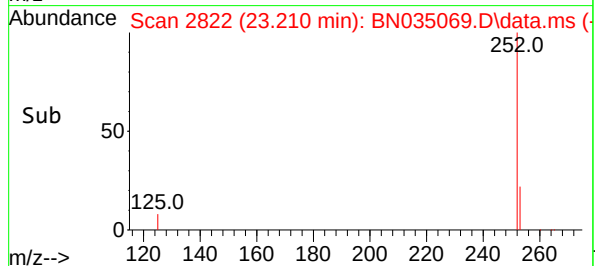
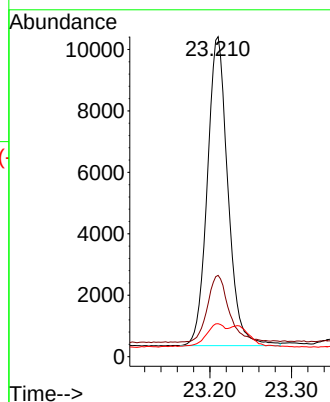
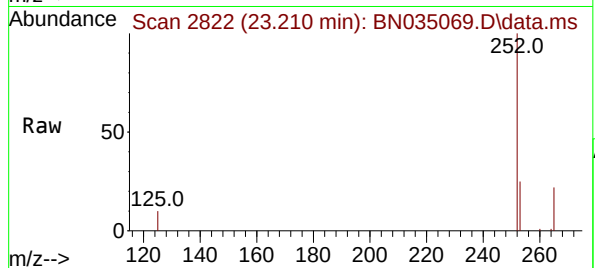
ICVBN111324

Tgt Ion:	252	Resp:	17590
Ion Ratio	Lower	Upper	
252	100		
253	25.4	20.1	30.1
125	10.3	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.373 ng

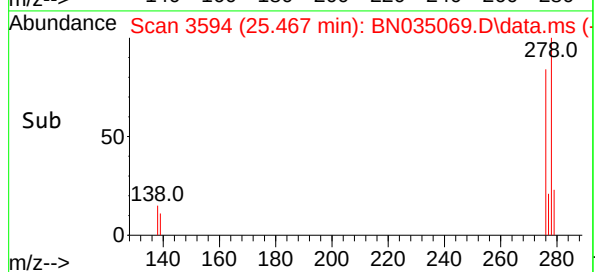
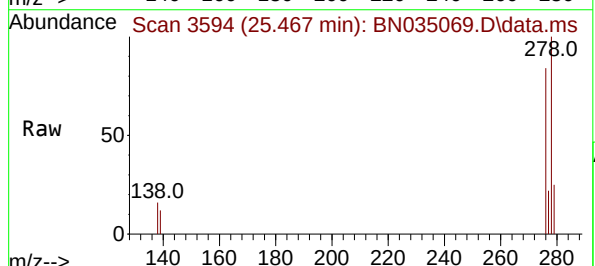
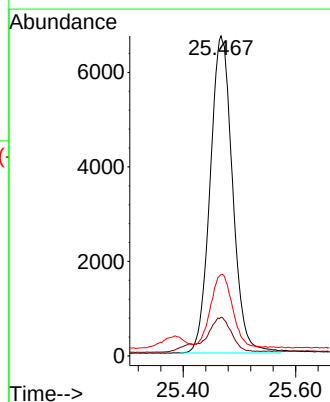
RT: 25.467 min Scan# 3594

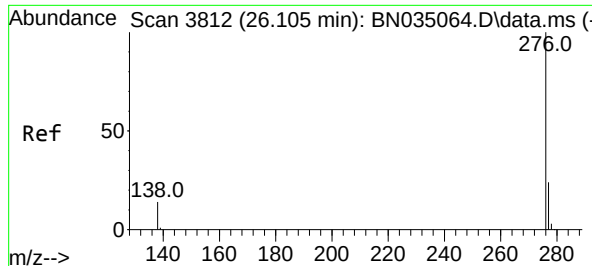
Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Tgt Ion:	278	Resp:	18547
Ion Ratio	Lower	Upper	
278	100		
139	12.1	9.3	13.9
279	25.4	19.7	29.5





#41

Benzo(g,h,i)perylene

Concen: 0.372 ng

RT: 26.104 min Scan# 3812

Delta R.T. -0.000 min

Lab File: BN035069.D

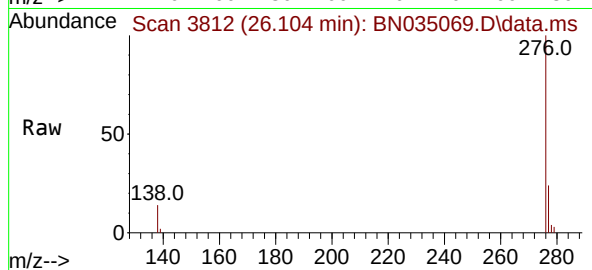
Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324



Tgt Ion:276 Resp: 19649

Ion Ratio Lower Upper

276 100

277 24.2 19.9 29.9

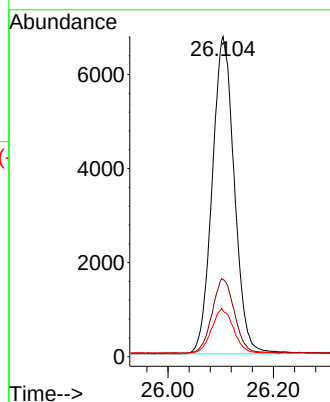
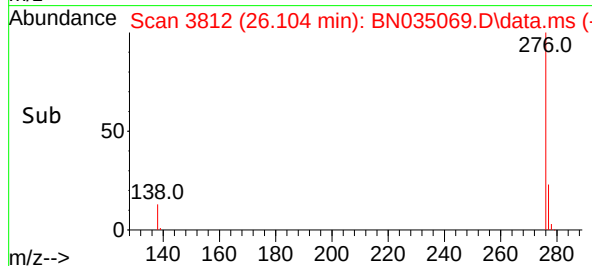
138 14.3 11.6 17.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/14/2024

Supervised By :mohammad ahmed 11/14/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035069.D
Acq On : 13 Nov 2024 16:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Quant Time: Nov 13 17:18:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
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	0.00
2	1,4-Dioxane	0.363	0.337	7.2	90	0.00
3	n-Nitrosodimethylamine	0.339	0.311	8.3	85	0.00
4 S	2-Fluorophenol	1.015	0.933	8.1	88	0.00
5 S	Phenol-d6	1.273	1.143	10.2	88	0.00
6	bis(2-Chloroethyl)ether	0.956	0.884	7.5	89	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	93	0.00
8 S	Nitrobenzene-d5	0.348	0.311	10.6	90	0.00
9	Naphthalene	1.044	0.957	8.3	91	0.00
10	Hexachlorobutadiene	0.306	0.285	6.9	90	0.00
11 SURR	2-Methylnaphthalene-d10	0.713	0.654	8.3	91	0.00
12	2-Methylnaphthalene	0.770	0.709	7.9	92	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	92	0.00
14 S	2,4,6-Tribromophenol	0.289	0.232	19.7	89	0.00
15 S	2-Fluorobiphenyl	1.624	1.451	10.7	91	0.00
16	Acenaphthylene	1.709	1.487	13.0	92	0.00
17	Acenaphthene	1.120	1.006	10.2	92	0.00
18	Fluorene	1.648	1.451	12.0	91	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	94	0.00
20	4,6-Dinitro-2-methylphenol	0.083	0.069	16.9	89	0.00
21	4-Bromophenyl-phenylether	0.255	0.237	7.1	90	0.00
22	Hexachlorobenzene	0.264	0.250	5.3	93	0.00
23	Atrazine	0.229	0.211	7.9	92	0.00
24	Pentachlorophenol	0.124	0.100	19.4	91	0.00
25	Phenanthrene	1.053	0.987	6.3	92	0.00
26	Anthracene	0.967	0.885	8.5	90	0.00
27 SURR	Fluoranthene-d10	1.225	1.146	6.4	92	0.00
28	Fluoranthene	1.448	1.347	7.0	91	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	94	0.00
30	Pyrene	1.332	1.251	6.1	91	0.00
31 S	Terphenyl-d14	0.839	0.800	4.6	93	0.00
32	Benzo(a)anthracene	1.393	1.310	6.0	93	0.00
33	Chrysene	1.380	1.330	3.6	94	0.00
34	Bis(2-ethylhexyl)phthalate	0.731	0.618	15.5	90	0.00
35 I	Perylene-d12	1.000	1.000	0.0	92	0.00
36	Indeno(1,2,3-cd)pyrene	1.596	1.497	6.2	91	0.00
37	Benzo(b)fluoranthene	1.346	1.274	5.3	92	0.00
38	Benzo(k)fluoranthene	1.347	1.279	5.0	92	0.00
39 C	Benzo(a)pyrene	1.184	1.119	5.5	92	0.00
40	Dibenzo(a,h)anthracene	1.264	1.180	6.6	90	0.00
41	Benzo(g,h,i)perylene	1.345	1.250	7.1	89	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035069.D
Acq On : 13 Nov 2024 16:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

Quant Time: Nov 13 17:18:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
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	0.00
2	1,4-Dioxane	0.400	0.371	7.3	90	0.00
3	n-Nitrosodimethylamine	0.400	0.368	8.0	85	0.00
4 S	2-Fluorophenol	0.400	0.368	8.0	88	0.00
5 S	Phenol-d6	0.400	0.359	10.3	88	0.00
6	bis(2-Chloroethyl)ether	0.400	0.370	7.5	89	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	93	0.00
8 S	Nitrobenzene-d5	0.400	0.358	10.5	90	0.00
9	Naphthalene	0.400	0.366	8.5	91	0.00
10	Hexachlorobutadiene	0.400	0.373	6.8	90	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.367	8.3	91	0.00
12	2-Methylnaphthalene	0.400	0.368	8.0	92	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	92	0.00
14 S	2,4,6-Tribromophenol	0.400	0.322	19.5	89	0.00
15 S	2-Fluorobiphenyl	0.400	0.357	10.8	91	0.00
16	Acenaphthylene	0.400	0.348	13.0	92	0.00
17	Acenaphthene	0.400	0.359	10.3	92	0.00
18	Fluorene	0.400	0.352	12.0	91	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	94	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.330	17.5	89	0.00
21	4-Bromophenyl-phenylether	0.400	0.371	7.3	90	0.00
22	Hexachlorobenzene	0.400	0.379	5.3	93	0.00
23	Atrazine	0.400	0.370	7.5	92	0.00
24	Pentachlorophenol	0.400	0.324	19.0	91	0.00
25	Phenanthrene	0.400	0.375	6.3	92	0.00
26	Anthracene	0.400	0.366	8.5	90	0.00
27 SURR	Fluoranthene-d10	0.400	0.374	6.5	92	0.00
28	Fluoranthene	0.400	0.372	7.0	91	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	94	0.00
30	Pyrene	0.400	0.376	6.0	91	0.00
31 S	Terphenyl-d14	0.400	0.381	4.8	93	0.00
32	Benzo(a)anthracene	0.400	0.376	6.0	93	0.00
33	Chrysene	0.400	0.386	3.5	94	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.338	15.5	90	0.00
35 I	Perylene-d12	0.400	0.400	0.0	92	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.375	6.3	91	0.00
37	Benzo(b)fluoranthene	0.400	0.379	5.3	92	0.00
38	Benzo(k)fluoranthene	0.400	0.380	5.0	92	0.00
39 C	Benzo(a)pyrene	0.400	0.378	5.5	92	0.00
40	Dibenzo(a,h)anthracene	0.400	0.373	6.8	90	0.00
41	Benzo(g,h,i)perylene	0.400	0.372	7.0	89	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.: P4773 SAS No.: P4773 SDG No.: P4773

Instrument ID: BNA_N Calibration Date/Time: 11/13/2024 23:24

Lab File ID: BN035080.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:40 16:15

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.713	0.667		-6.5	50.0
Fluoranthene-d10	1.225	1.141		-6.9	50.0
2-Fluorophenol	1.015	0.932		-8.2	50.0
Phenol-d6	1.273	1.205		-5.3	50.0
Nitrobenzene-d5	0.348	0.315		-9.5	50.0
2-Fluorobiphenyl	1.624	1.467		-9.7	50.0
2,4,6-Tribromophenol	0.289	0.245		-15.2	50.0
Terphenyl-d14	0.839	0.813		-3.1	50.0
1,4-Dioxane	0.363	0.342		-5.8	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035080.D
 Acq On : 13 Nov 2024 23:24
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Nov 14 02:08:20 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 17:18:14 2024
 Response via : Initial Calibration

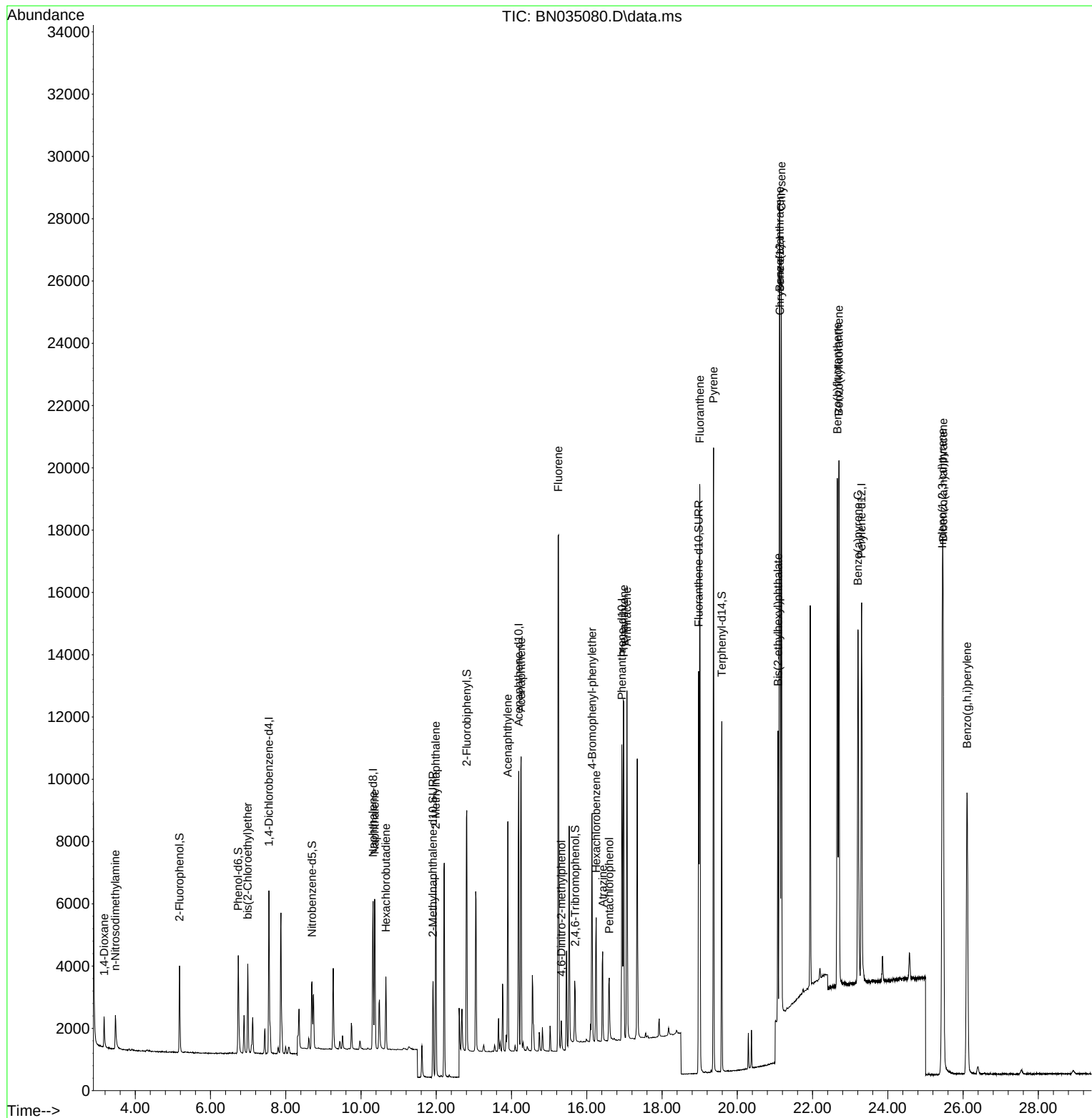
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2529	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6348	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	5060	0.400	ng	0.00
19) Phenanthrene-d10	16.933	188	13002	0.400	ng	# 0.00
29) Chrysene-d12	21.134	240	13785	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	15329	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2358	0.367	ng	0.00
5) Phenol-d6	6.737	99	3048	0.379	ng	0.00
8) Nitrobenzene-d5	8.696	82	1998	0.362	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	4232	0.374	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	1242	0.340	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	7424	0.361	ng	0.00
27) Fluoranthene-d10	18.973	212	14836	0.372	ng	0.00
31) Terphenyl-d14	19.587	244	11211	0.388	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	865	0.377	ng	99
3) n-Nitrosodimethylamine	3.473	42	754	0.352	ng	# 92
6) bis(2-Chloroethyl)ether	6.990	93	2256	0.373	ng	99
9) Naphthalene	10.362	128	6175	0.373	ng	100
10) Hexachlorobutadiene	10.661	225	1818	0.374	ng	# 100
12) 2-Methylnaphthalene	11.988	142	4591	0.375	ng	99
16) Acenaphthylene	13.902	152	7602	0.352	ng	99
17) Acenaphthene	14.254	154	5061	0.357	ng	99
18) Fluorene	15.238	166	7594	0.364	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	895	0.331	ng	# 86
21) 4-Bromophenyl-phenylether	16.138	248	3136	0.379	ng	# 86
22) Hexachlorobenzene	16.250	284	3228	0.375	ng	100
23) Atrazine	16.424	200	2625	0.353	ng	# 93
24) Pentachlorophenol	16.597	266	1238	0.308	ng	98
25) Phenanthrene	16.982	178	13259	0.387	ng	100
26) Anthracene	17.069	178	11732	0.373	ng	99
28) Fluoranthene	19.006	202	17678	0.376	ng	100
30) Pyrene	19.368	202	17995	0.392	ng	100
32) Benzo(a)anthracene	21.125	228	17986	0.375	ng	99
33) Chrysene	21.169	228	18663	0.392	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	8169	0.324	ng	100
36) Indeno(1,2,3-cd)pyrene	25.449	276	22879	0.374	ng	100
37) Benzo(b)fluoranthene	22.657	252	20028	0.388	ng	100
38) Benzo(k)fluoranthene	22.701	252	20172	0.391	ng	99
39) Benzo(a)pyrene	23.206	252	17089	0.377	ng	99
40) Dibenzo(a,h)anthracene	25.469	278	18070	0.373	ng	98
41) Benzo(g,h,i)perylene	26.104	276	18724	0.363	ng	98

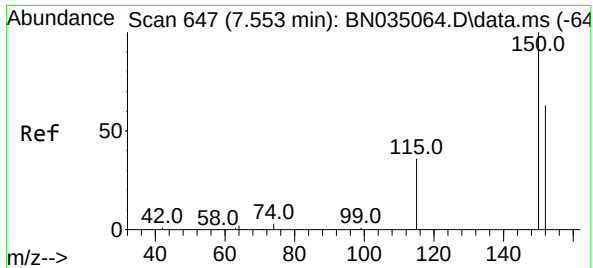
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035080.D
Acq On : 13 Nov 2024 23:24
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Nov 14 02:08:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

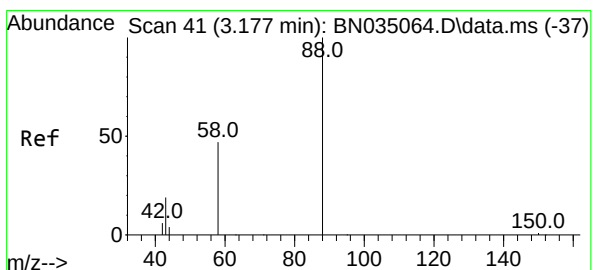
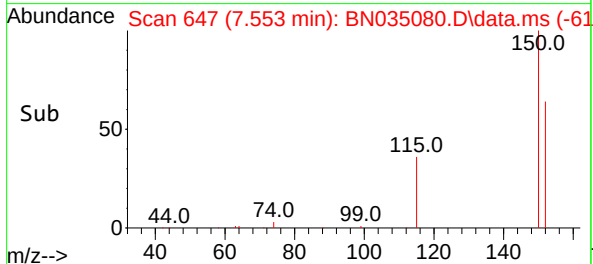
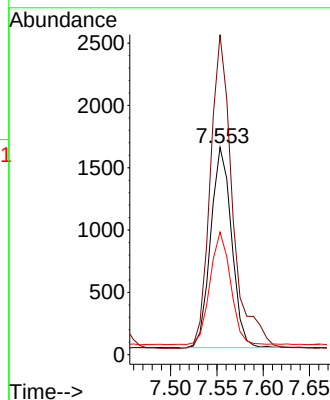
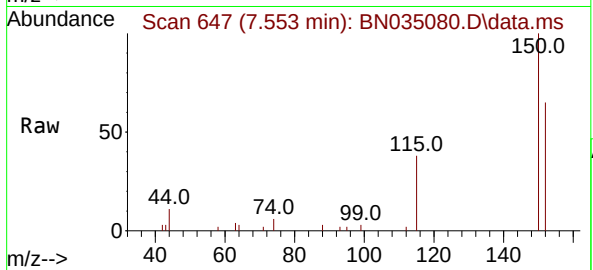




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

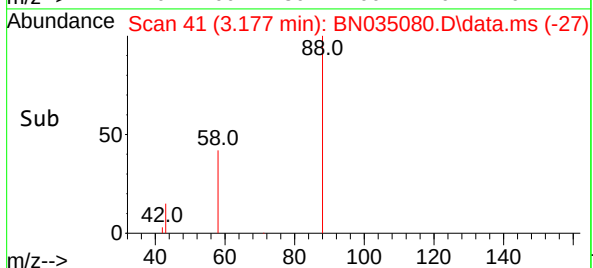
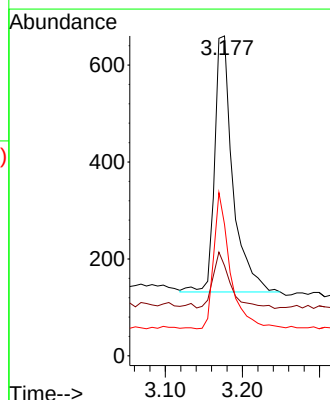
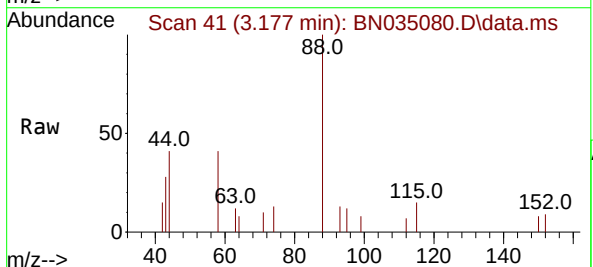
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

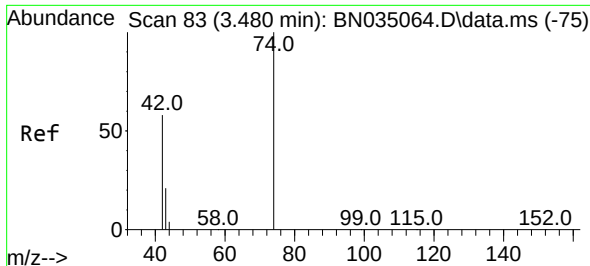
Tgt Ion:152 Resp: 2529
Ion Ratio Lower Upper
152 100
150 154.3 124.5 186.7
115 59.1 47.8 71.6



#2
1,4-Dioxane
Concen: 0.377 ng
RT: 3.177 min Scan# 41
Delta R.T. 0.000 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion: 88 Resp: 865
Ion Ratio Lower Upper
88 100
43 21.0 16.9 25.3
58 48.2 39.0 58.4

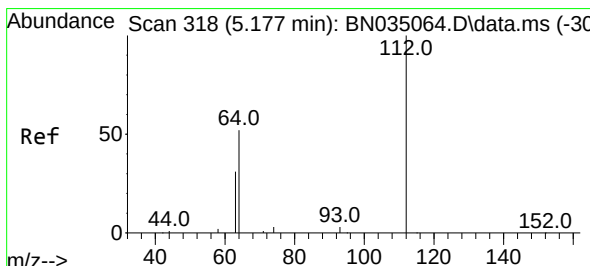
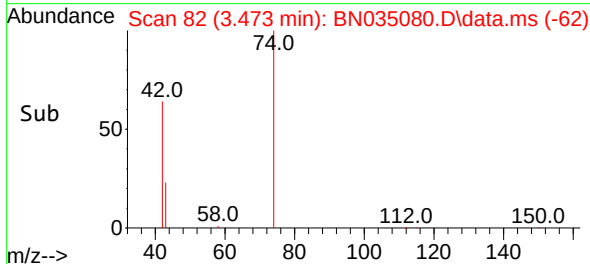
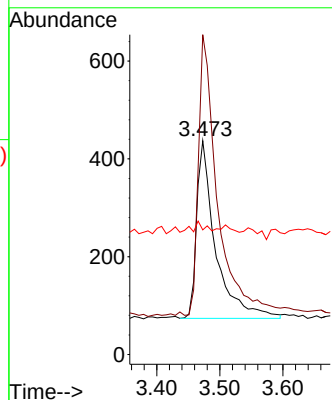
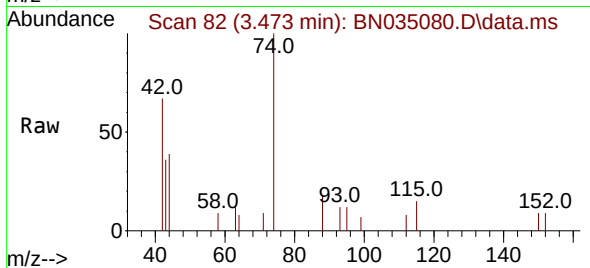




#3
n-Nitrosodimethylamine
Concen: 0.352 ng
RT: 3.473 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

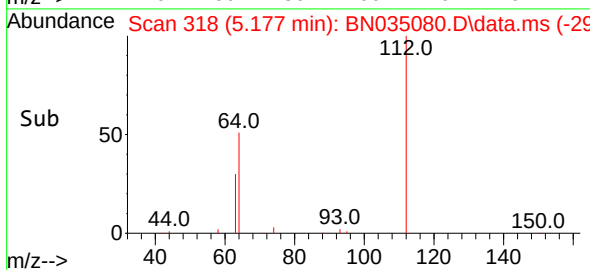
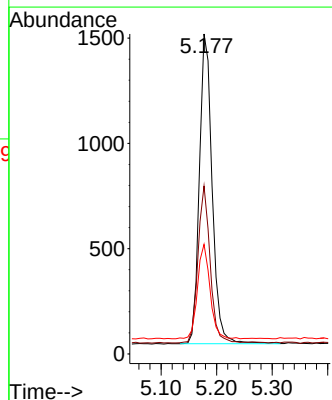
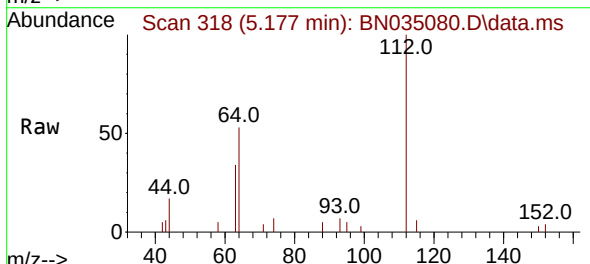
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

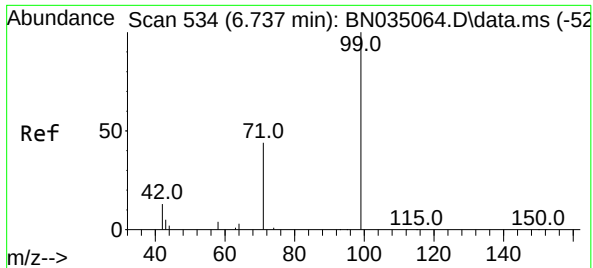
Tgt Ion: 42 Resp: 754
Ion Ratio Lower Upper
42 100
74 161.3 120.8 181.2
44 4.4 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.367 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.000 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion: 112 Resp: 2358
Ion Ratio Lower Upper
112 100
64 48.0 39.7 59.5
63 29.7 23.0 34.4

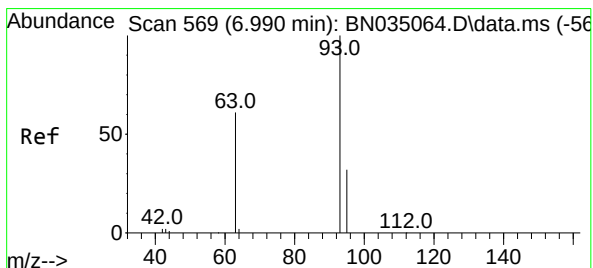
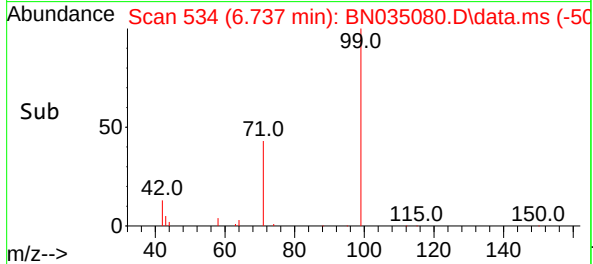
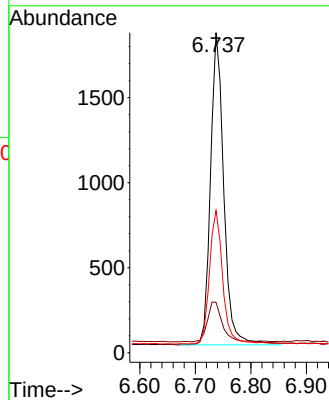
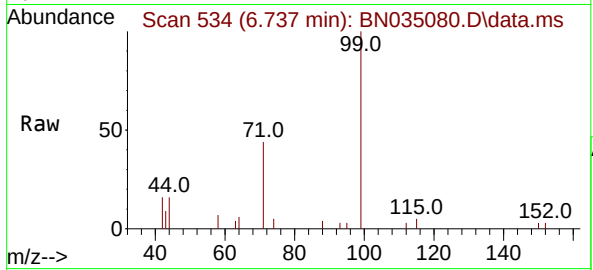




#5
Phenol-d6
Concen: 0.379 ng
RT: 6.737 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

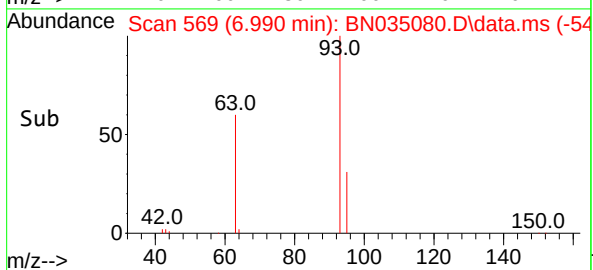
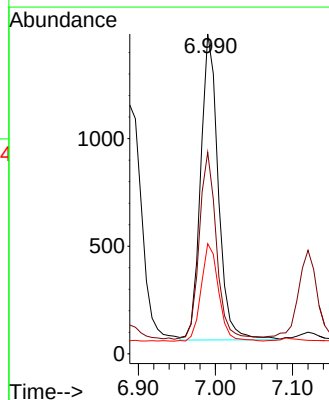
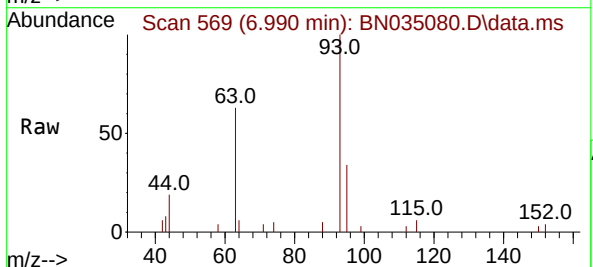
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

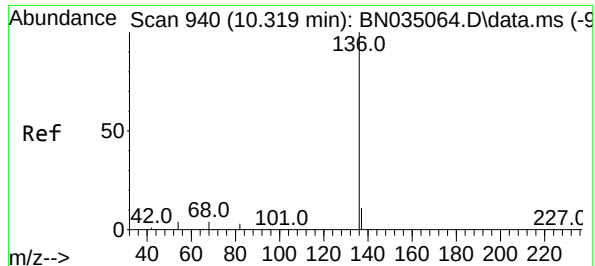
Tgt Ion: 99 Resp: 3048
Ion Ratio Lower Upper
99 100
42 14.3 11.4 17.0
71 42.8 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.373 ng
RT: 6.990 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion: 93 Resp: 2256
Ion Ratio Lower Upper
93 100
63 59.6 47.4 71.2
95 31.7 26.2 39.4

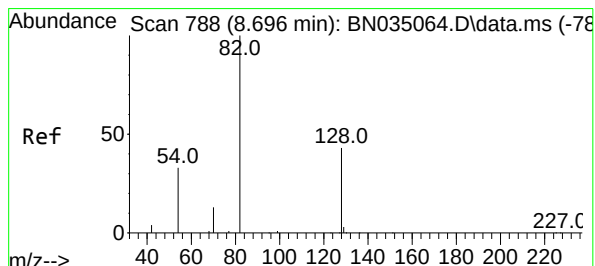
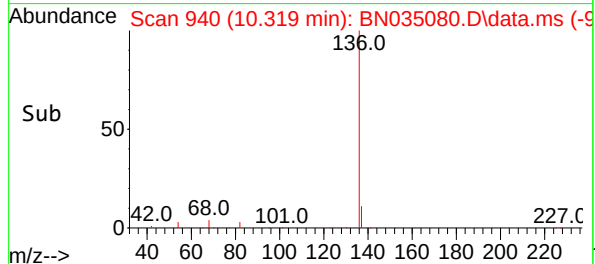
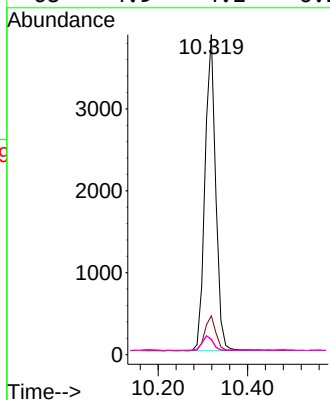
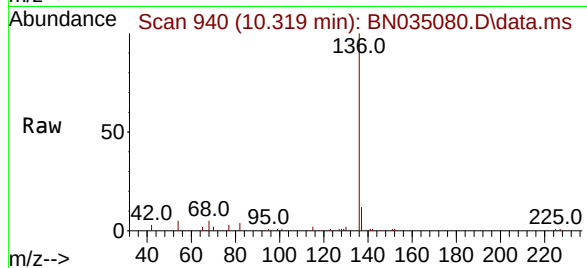




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

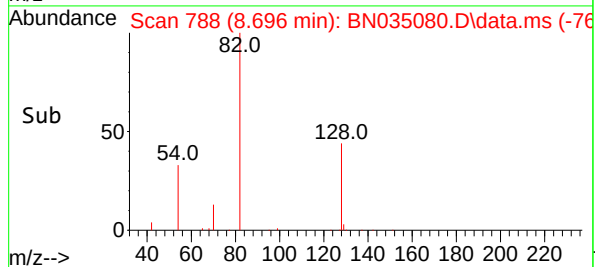
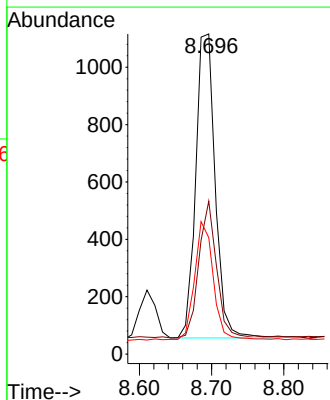
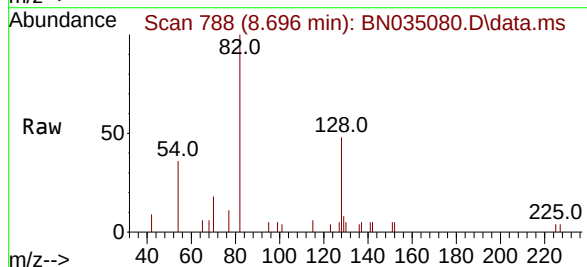
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

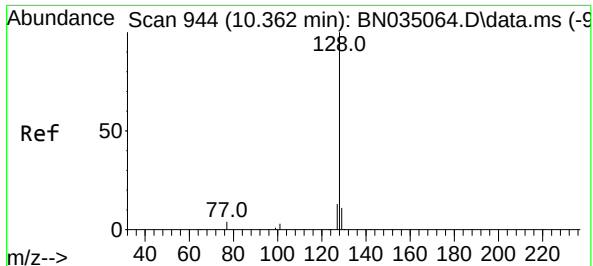
Tgt Ion:	136	Resp:	6348
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.8	14.8
54	4.7	4.0	6.0
68	4.9	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.362 ng
RT: 8.696 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion:	82	Resp:	1998
Ion	Ratio	Lower	Upper
82	100		
128	47.8	36.5	54.7
54	36.4	28.7	43.1

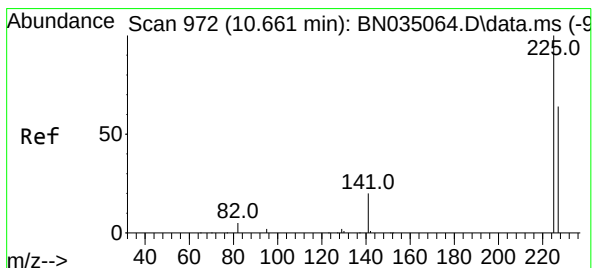
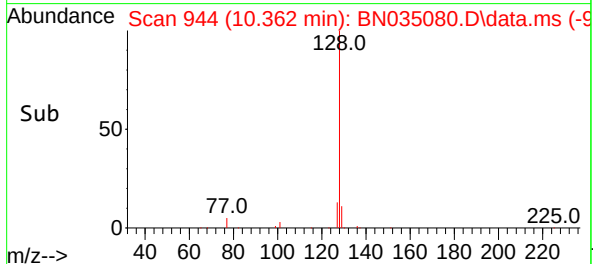
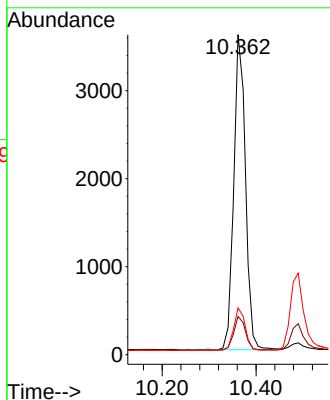
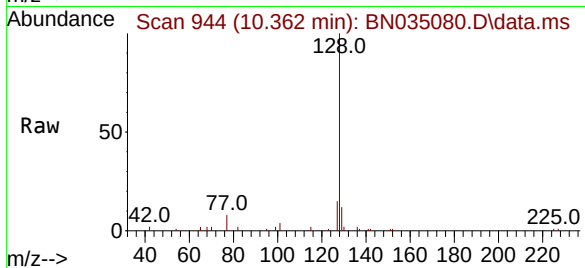




#9
Naphthalene
Concen: 0.373 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

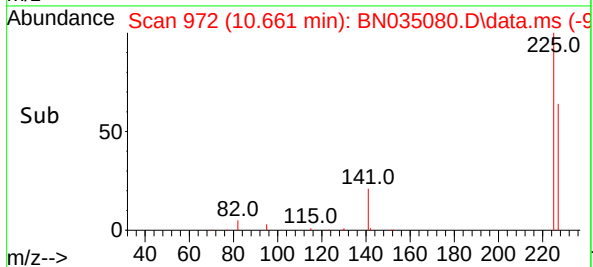
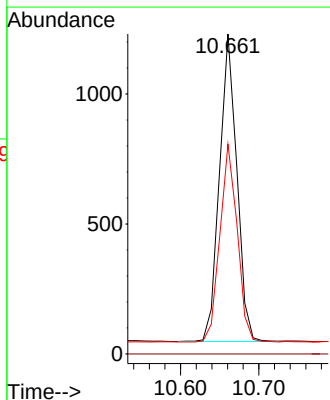
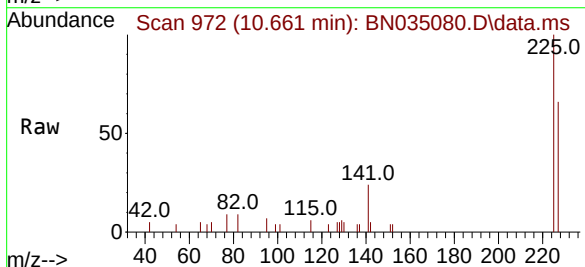
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

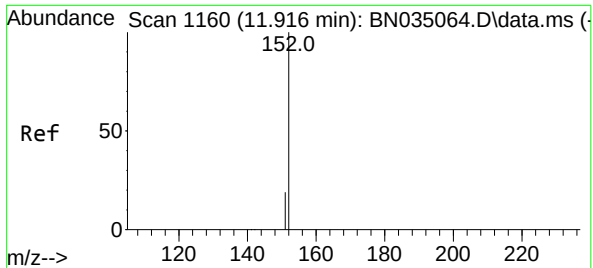
Tgt Ion:	128	Resp:	6175
Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.6	14.4
127	14.6	11.6	17.4



#10
Hexachlorobutadiene
Concen: 0.374 ng
RT: 10.661 min Scan# 972
Delta R.T. 0.000 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion:	225	Resp:	1818
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.5	77.3

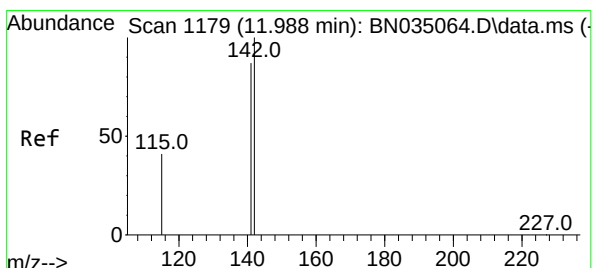
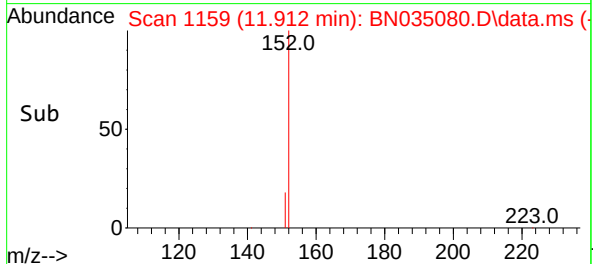
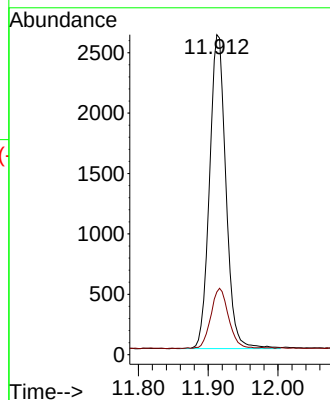
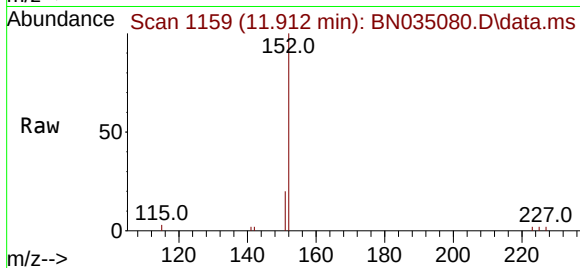




#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

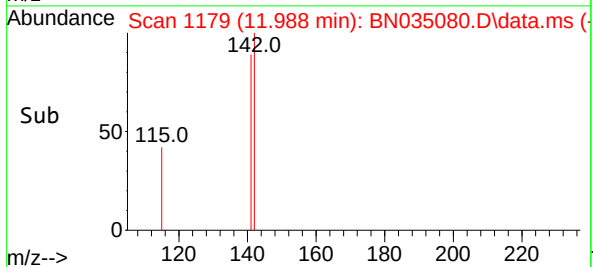
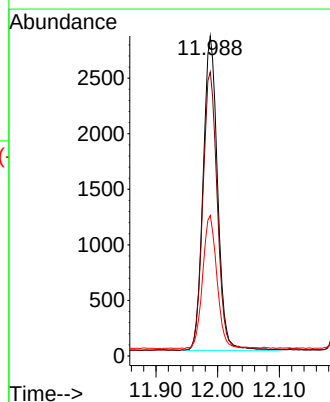
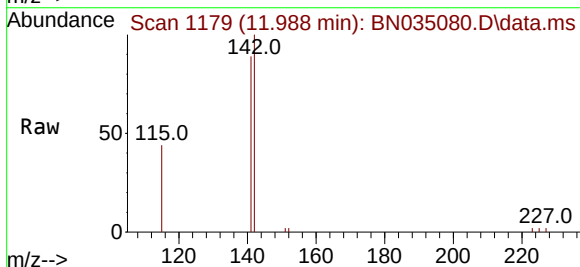
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

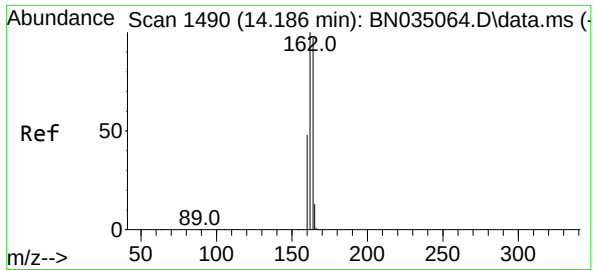
Tgt Ion:152 Resp: 4232
Ion Ratio Lower Upper
152 100
151 20.7 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 11.988 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion:142 Resp: 4591
Ion Ratio Lower Upper
142 100
141 88.8 70.1 105.1
115 43.9 34.4 51.6

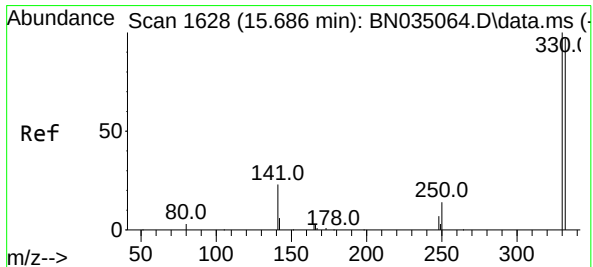
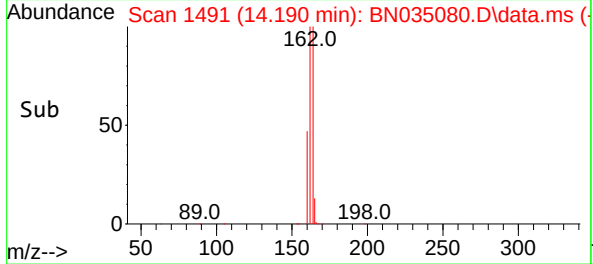
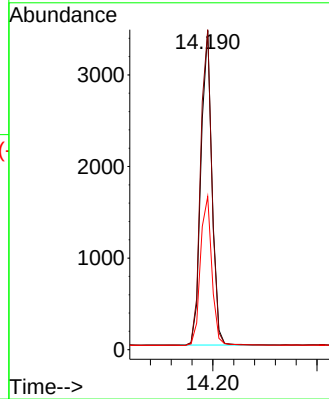
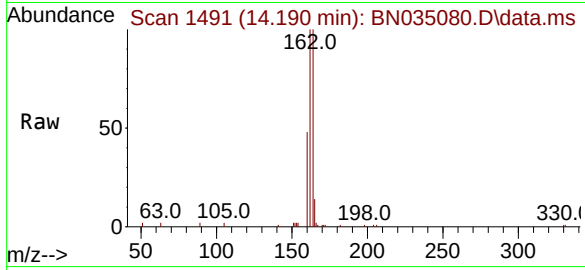




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1490
Delta R.T. 0.004 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

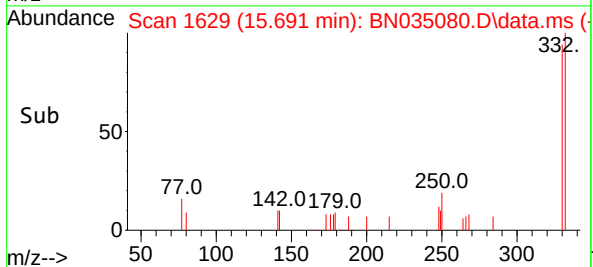
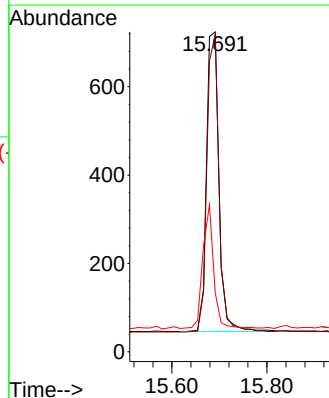
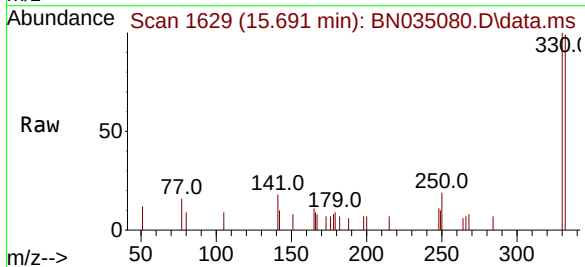
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

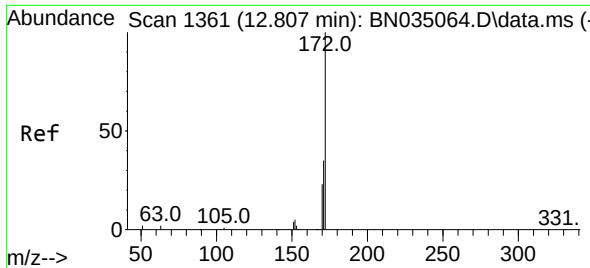
Tgt Ion:164 Resp: 5060
Ion Ratio Lower Upper
164 100
162 100.3 82.2 123.2
160 48.0 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.340 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.006 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion:330 Resp: 1242
Ion Ratio Lower Upper
330 100
332 96.5 76.9 115.3
141 36.0 29.6 44.4

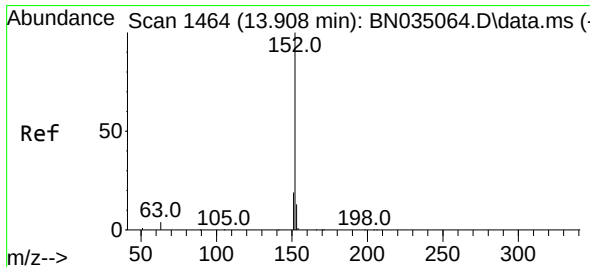
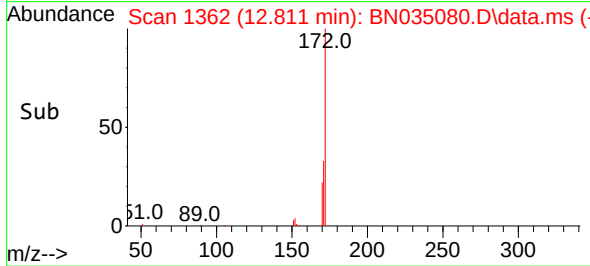
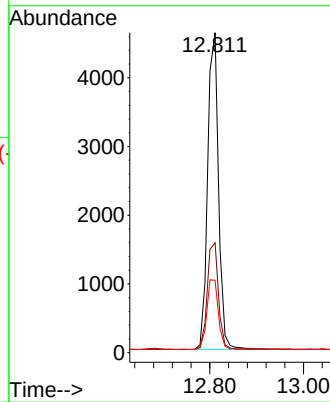
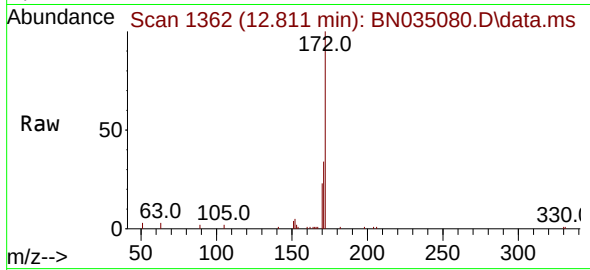




#15
2-Fluorobiphenyl
Concen: 0.361 ng
RT: 12.811 min Scan# 1361
Delta R.T. 0.004 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

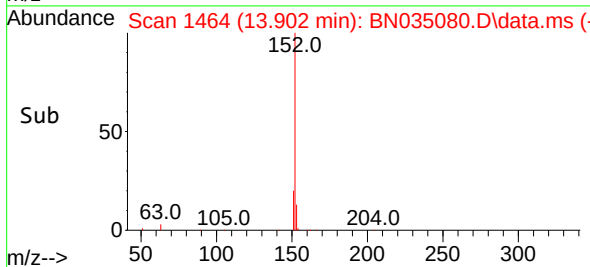
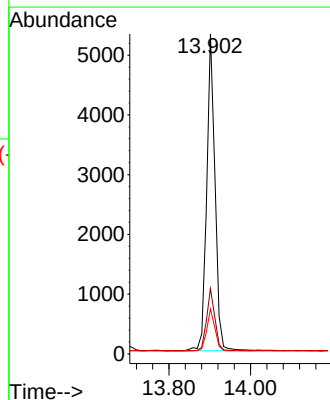
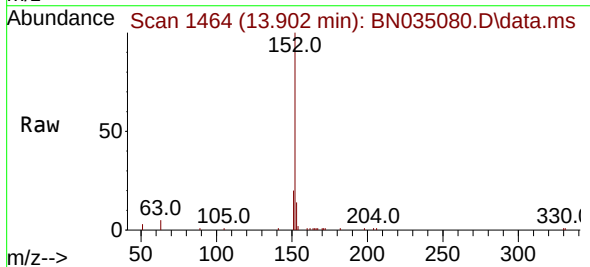
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

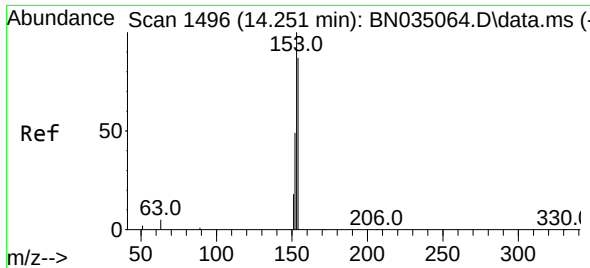
Tgt Ion:	172	Resp:	7424
Ion Ratio	Lower	Upper	
172	100		
171	34.3	28.2	42.4
170	22.6	19.0	28.6



#16
Acenaphthylene
Concen: 0.352 ng
RT: 13.902 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion:	152	Resp:	7602
Ion Ratio	Lower	Upper	
152	100		
151	19.5	15.8	23.8
153	13.2	10.2	15.4

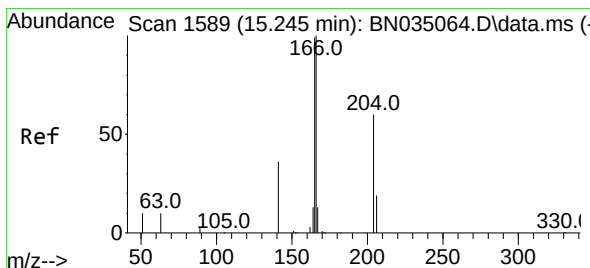
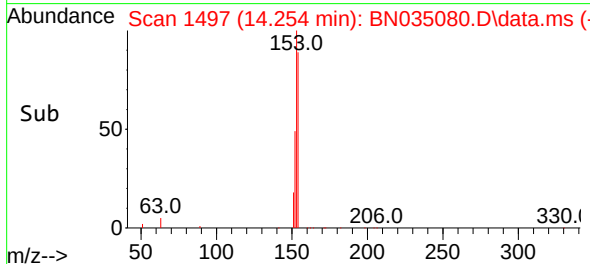
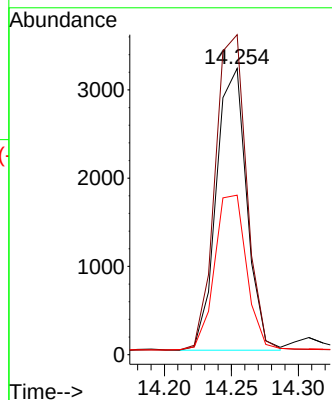
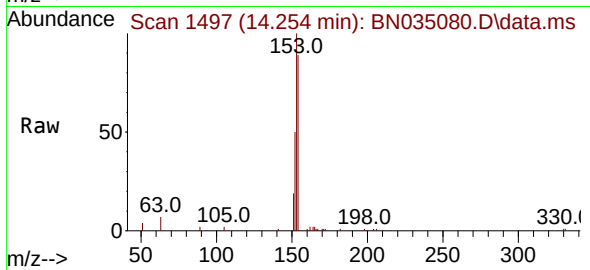




#17
Acenaphthene
Concen: 0.357 ng
RT: 14.254 min Scan# 1497
Delta R.T. 0.004 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

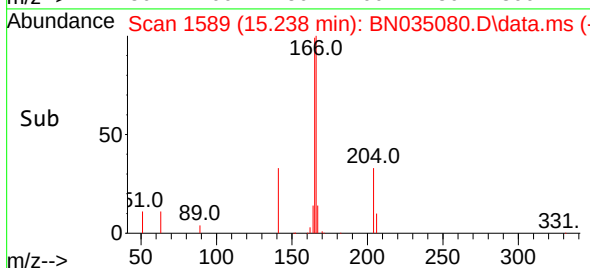
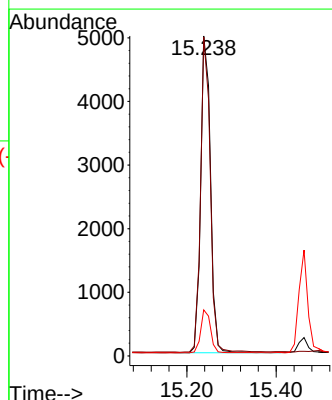
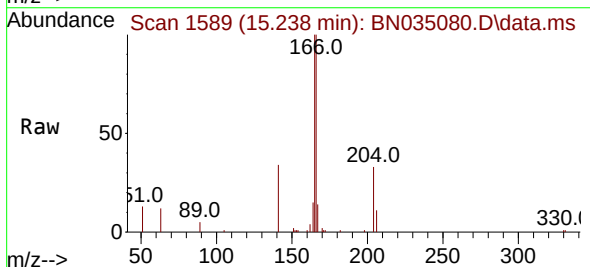
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

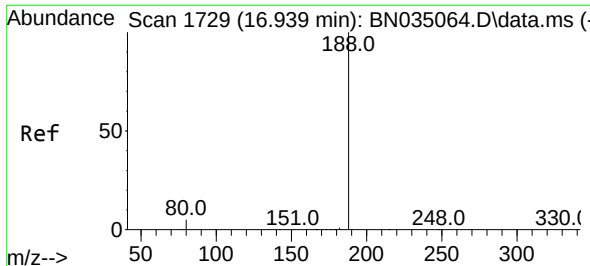
Tgt Ion:154 Resp: 5061
Ion Ratio Lower Upper
154 100
153 115.8 91.6 137.4
152 58.2 45.8 68.6



#18
Fluorene
Concen: 0.364 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion:166 Resp: 7594
Ion Ratio Lower Upper
166 100
165 98.1 79.1 118.7
167 13.8 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.933 min Scan# 1729

Delta R.T. -0.007 min

Lab File: BN035080.D

Acq: 13 Nov 2024 23:24

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

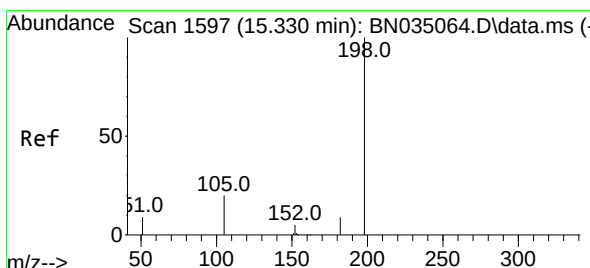
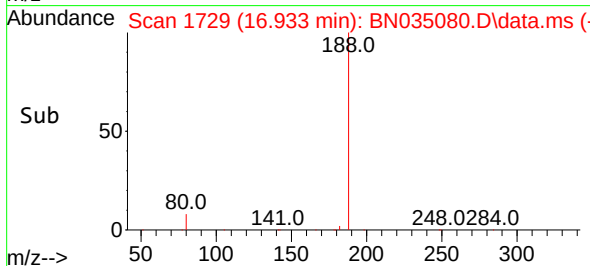
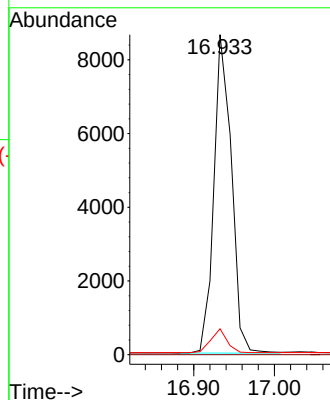
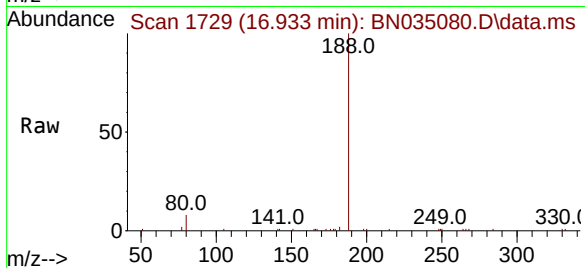
Tgt Ion:188 Resp: 13002

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.1 4.3 6.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.331 ng

RT: 15.323 min Scan# 1597

Delta R.T. -0.007 min

Lab File: BN035080.D

Acq: 13 Nov 2024 23:24

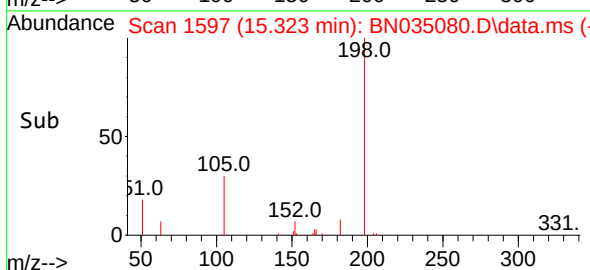
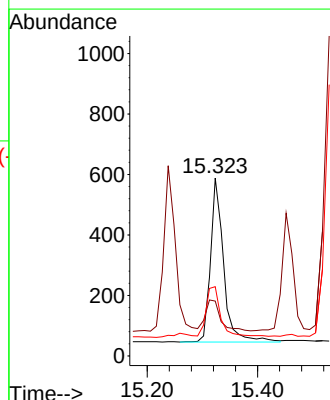
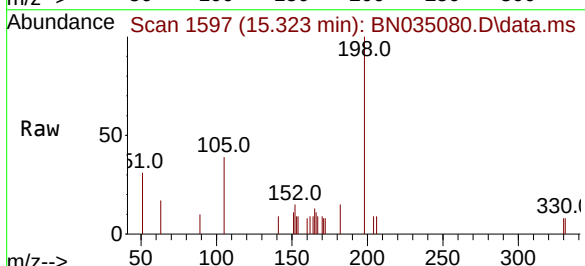
Tgt Ion:198 Resp: 895

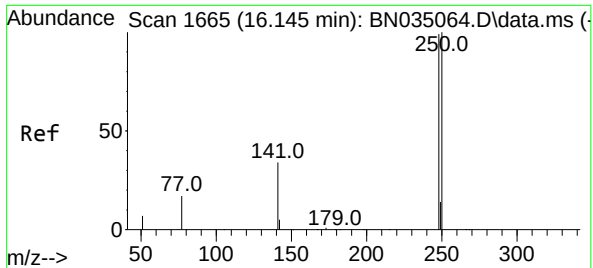
Ion Ratio Lower Upper

198 100

51 30.8 29.9 44.9

105 38.9 23.7 35.5#

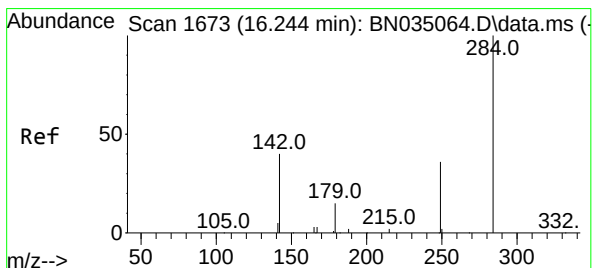
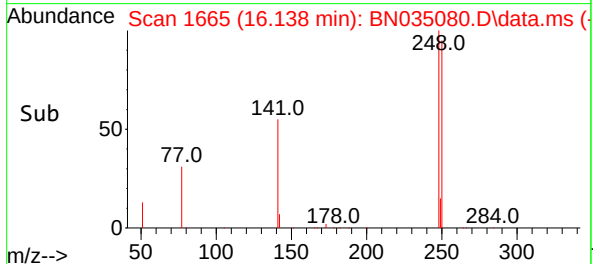
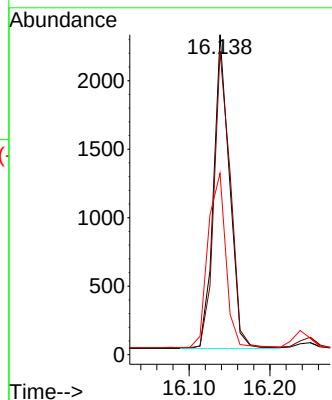
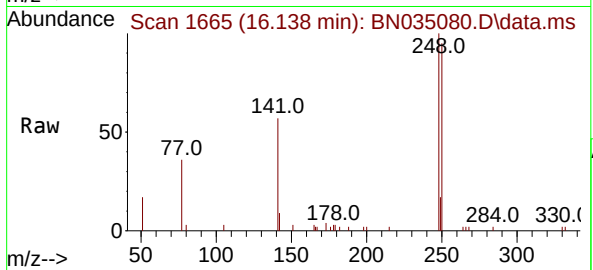




#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

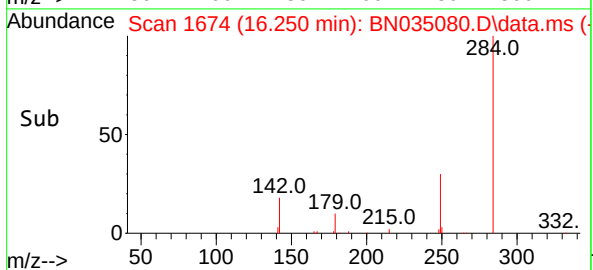
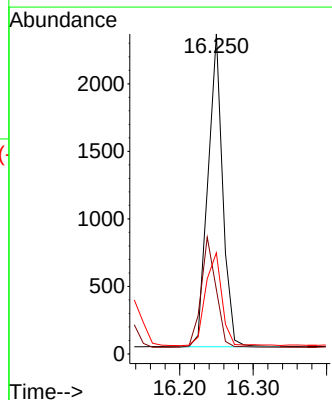
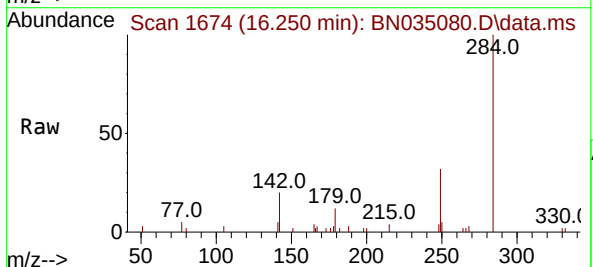
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

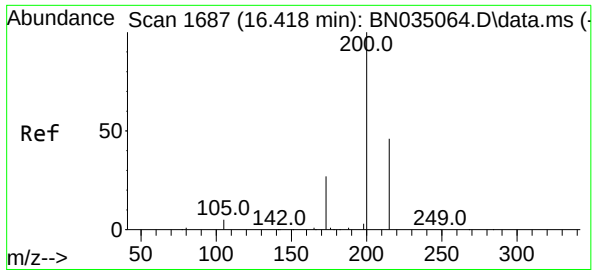
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.9	81.2	121.8
141	56.7	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.006 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.6	28.2	42.4
249	32.7	26.2	39.2

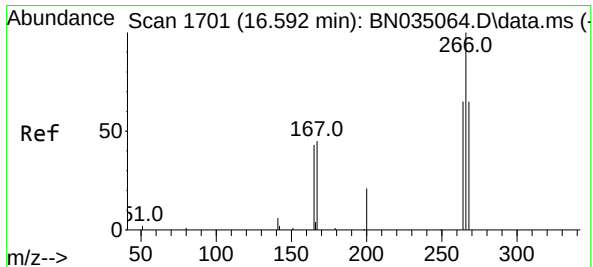
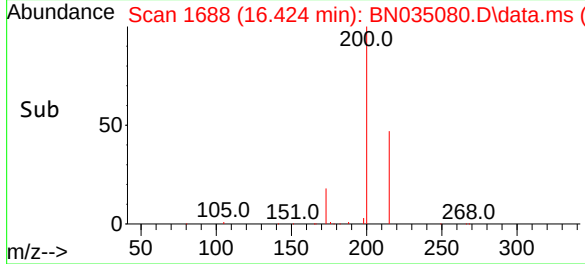
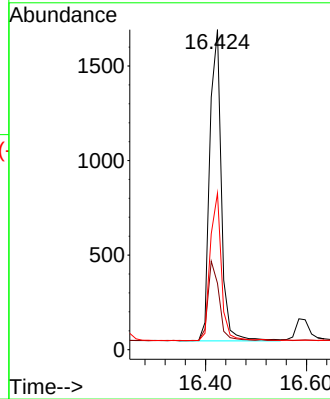
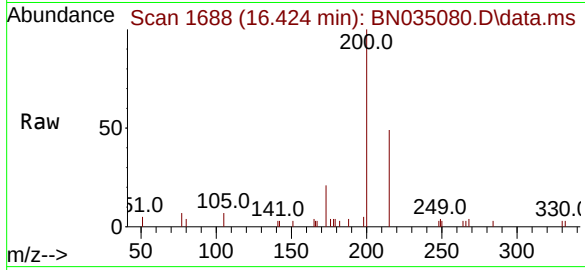




#23
Atrazine
Concen: 0.353 ng
RT: 16.424 min Scan# 1688
Delta R.T. 0.006 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

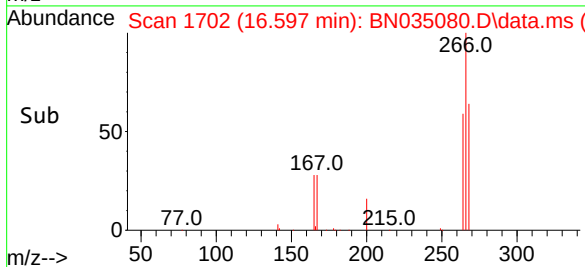
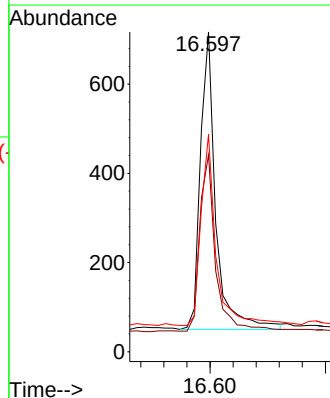
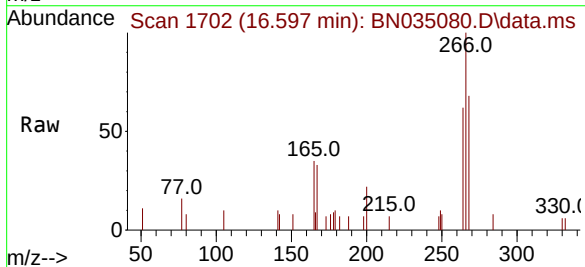
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

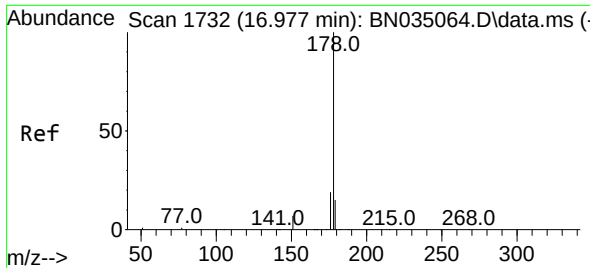
Tgt Ion	Ratio	Lower	Upper
200	100		
173	20.7	22.6	33.8#
215	48.9	37.8	56.6



#24
Pentachlorophenol
Concen: 0.308 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.006 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion	Ratio	Lower	Upper
266	100		
264	60.6	49.4	74.0
268	63.5	52.6	79.0

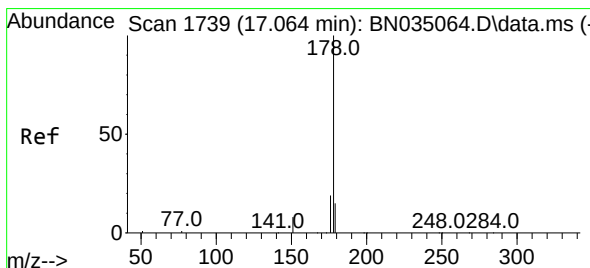
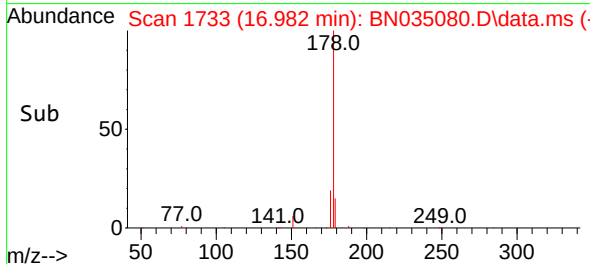
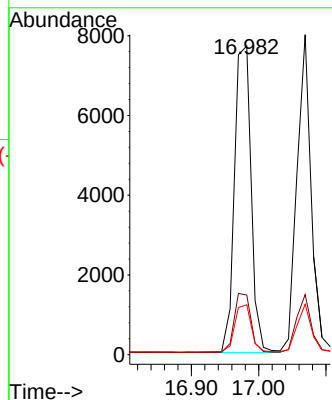
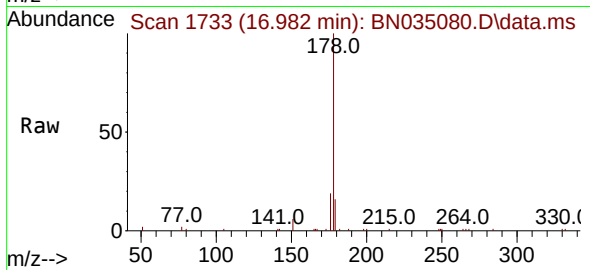




#25
Phenanthrene
Concen: 0.387 ng
RT: 16.982 min Scan# 1733
Delta R.T. 0.006 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

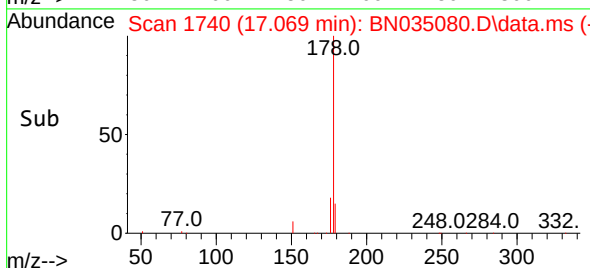
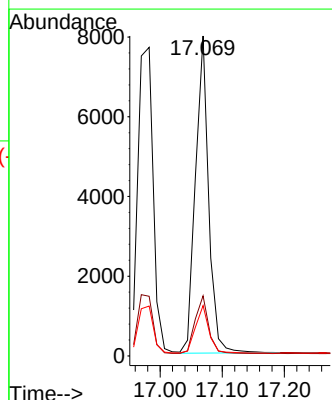
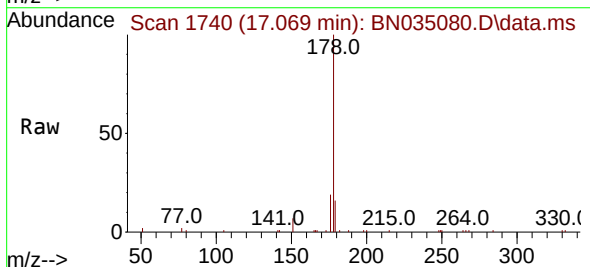
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

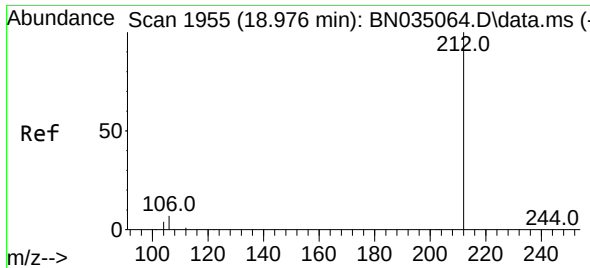
Tgt Ion:178 Resp: 13259
Ion Ratio Lower Upper
178 100
176 19.3 15.2 22.8
179 15.6 12.6 18.8



#26
Anthracene
Concen: 0.373 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.006 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion:178 Resp: 11732
Ion Ratio Lower Upper
178 100
176 18.7 14.6 22.0
179 15.3 12.2 18.2

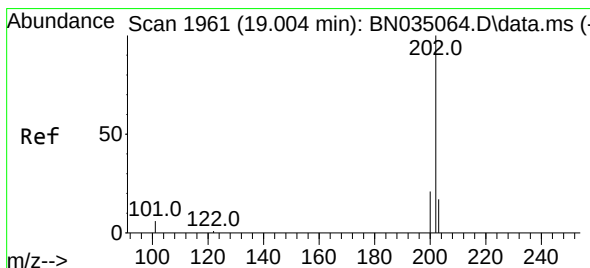
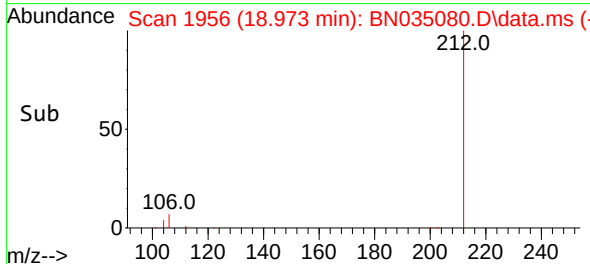
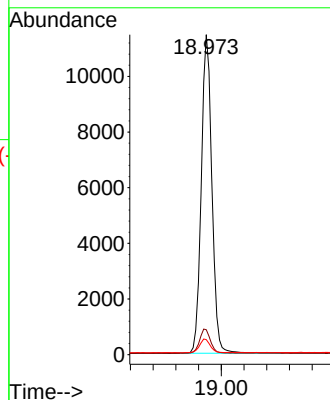
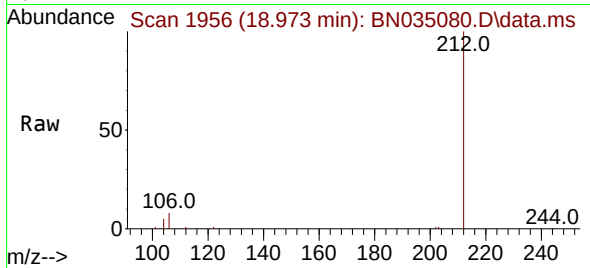




#27
Fluoranthene-d10
Concen: 0.372 ng
RT: 18.973 min Scan# 1955
Delta R.T. -0.002 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

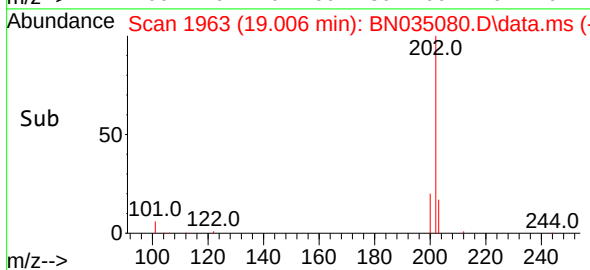
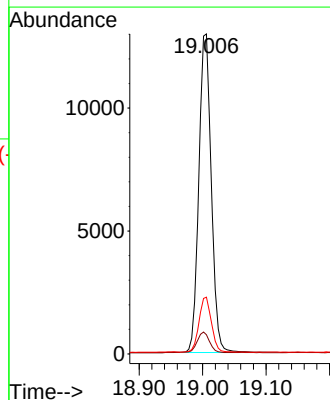
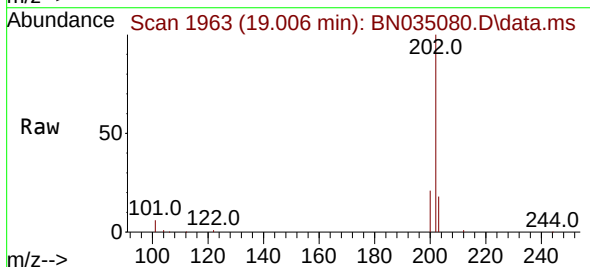
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

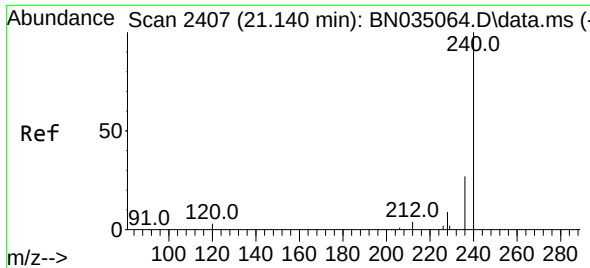
Tgt Ion	Ratio	Lower	Upper
212	100		
106	7.7	6.0	9.0
104	4.3	3.5	5.3



#28
Fluoranthene
Concen: 0.376 ng
RT: 19.006 min Scan# 1963
Delta R.T. 0.002 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion	Ratio	Lower	Upper
202	100		
101	6.6	5.2	7.8
203	17.2	13.8	20.8

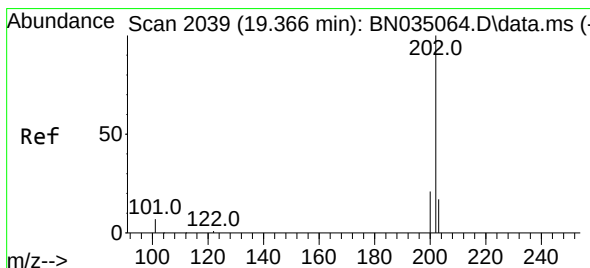
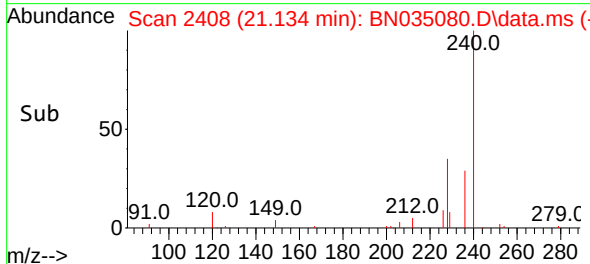
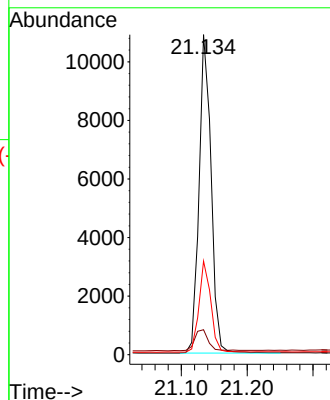
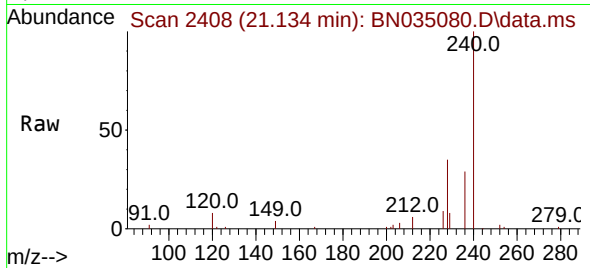




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.134 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

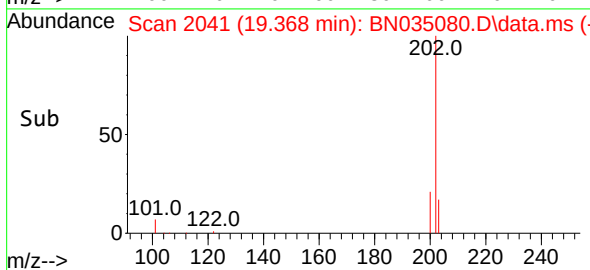
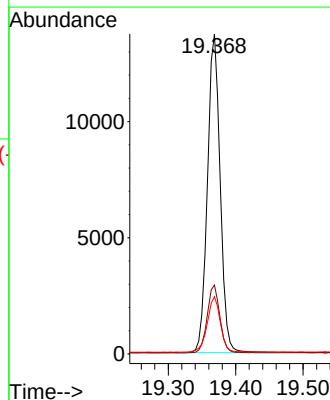
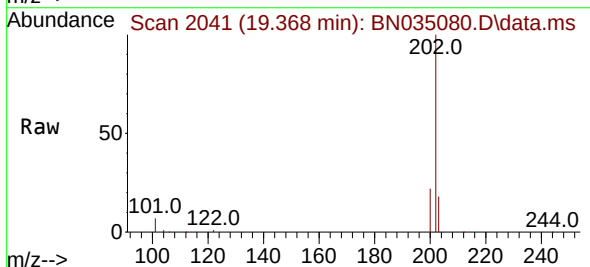
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

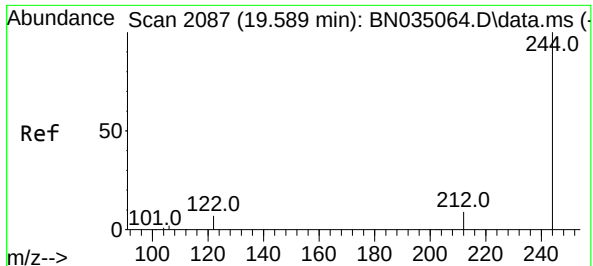
Tgt Ion:240 Resp: 13785
Ion Ratio Lower Upper
240 100
120 7.8 3.8 5.6#
236 29.2 22.2 33.2



#30
Pyrene
Concen: 0.392 ng
RT: 19.368 min Scan# 2041
Delta R.T. 0.002 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion:202 Resp: 17995
Ion Ratio Lower Upper
202 100
200 21.1 16.7 25.1
203 17.9 14.2 21.4

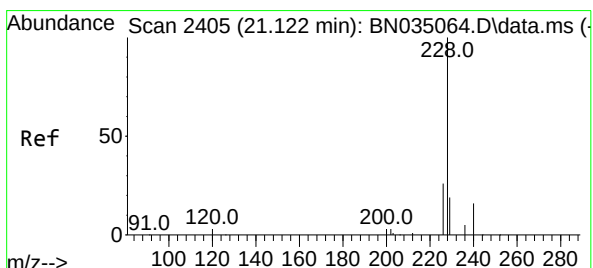
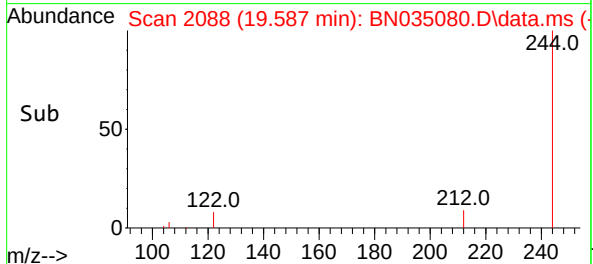
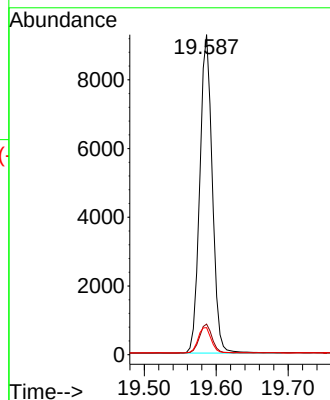
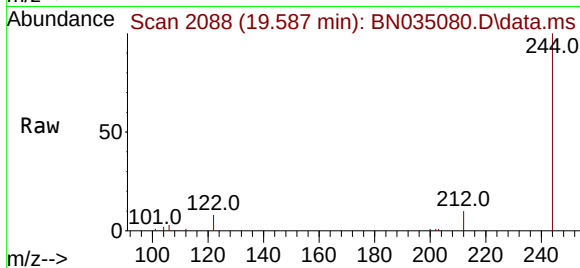




#31
Terphenyl-d14
Concen: 0.388 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

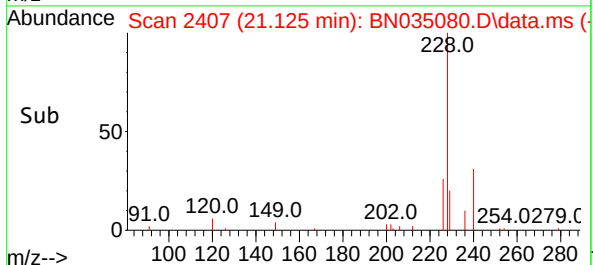
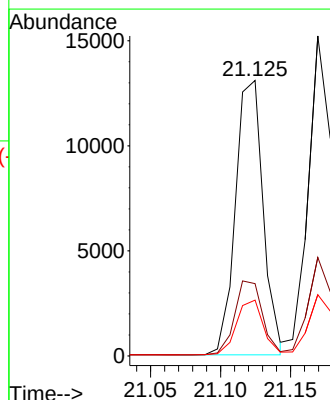
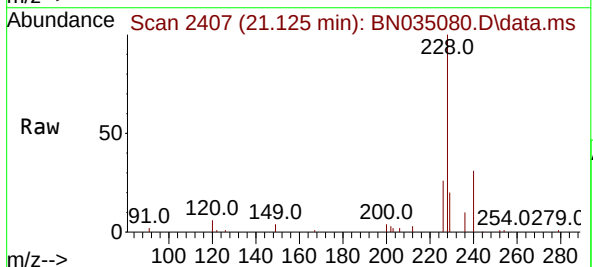
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

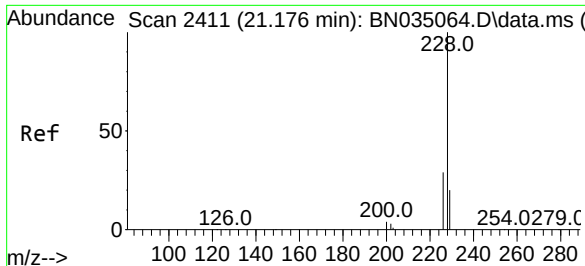
Tgt Ion:244 Resp: 11211
Ion Ratio Lower Upper
244 100
212 9.5 7.6 11.4
122 8.4 6.1 9.1



#32
Benzo(a)anthracene
Concen: 0.375 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion:228 Resp: 17986
Ion Ratio Lower Upper
228 100
226 26.3 21.4 32.0
229 20.2 15.7 23.5





#33

Chrysene

Concen: 0.392 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035080.D

Acq: 13 Nov 2024 23:24

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

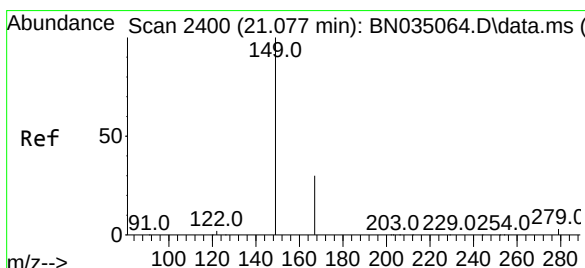
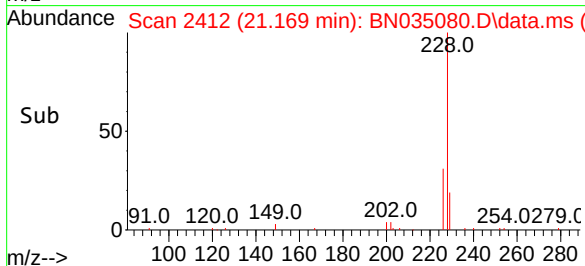
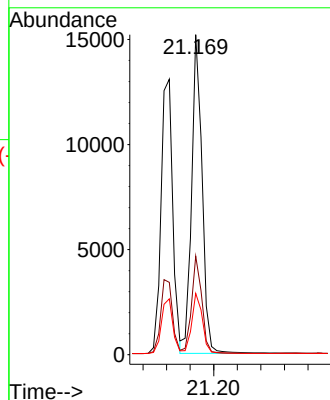
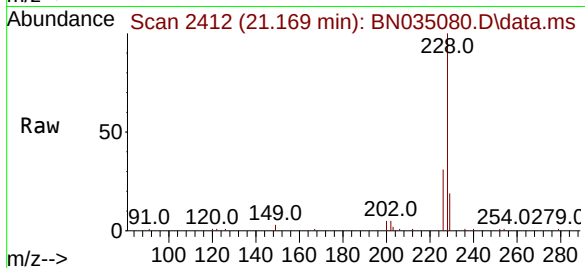
Tgt Ion:228 Resp: 18663

Ion Ratio Lower Upper

228 100

226 30.8 23.7 35.5

229 19.1 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.324 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035080.D

Acq: 13 Nov 2024 23:24

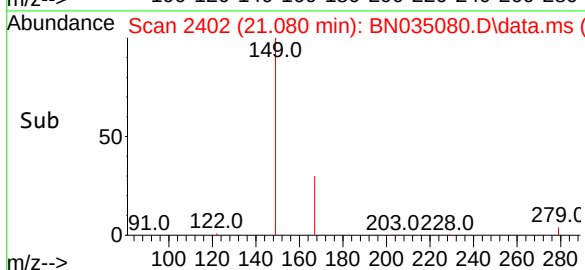
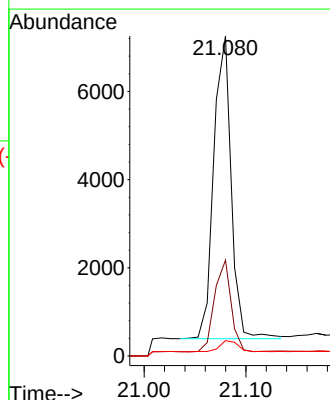
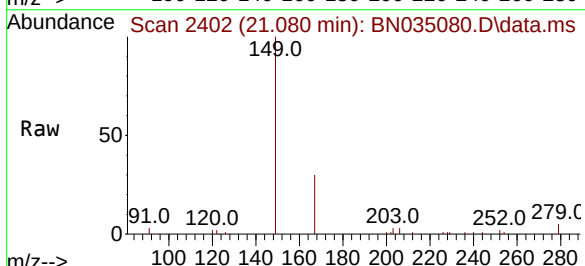
Tgt Ion:149 Resp: 8169

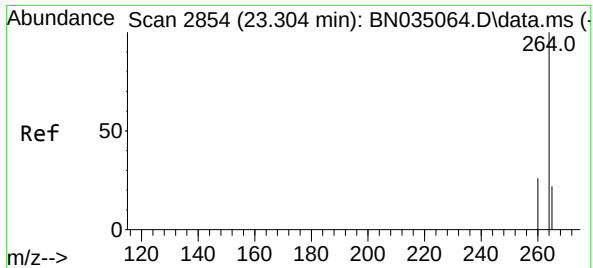
Ion Ratio Lower Upper

149 100

167 28.7 23.2 34.8

279 4.0 3.2 4.8

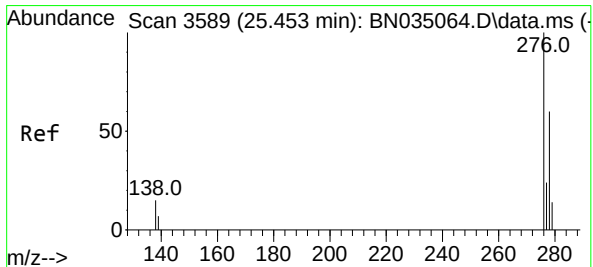
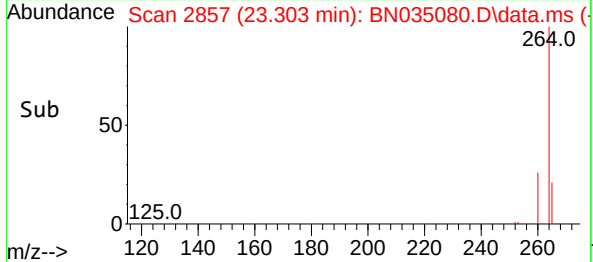
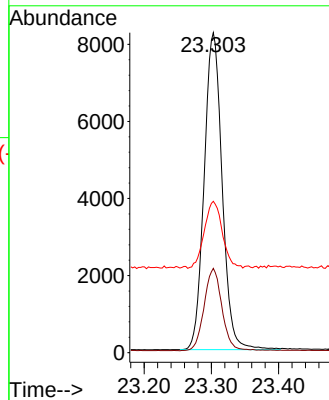
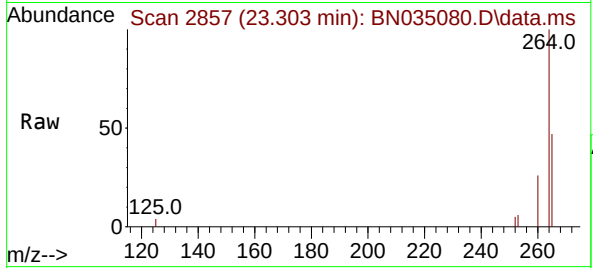




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 21
Delta R.T. -0.001 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

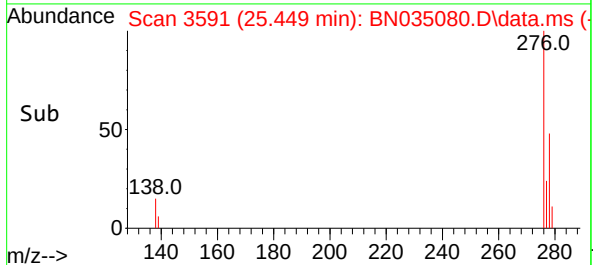
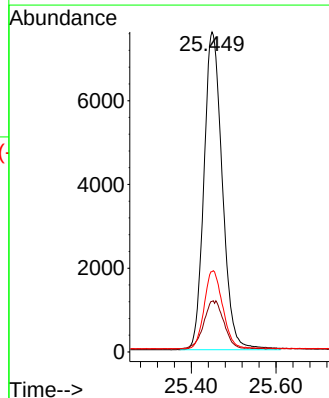
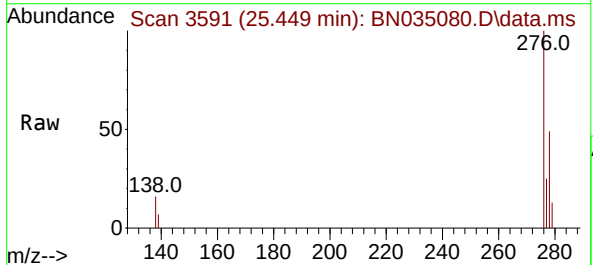
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

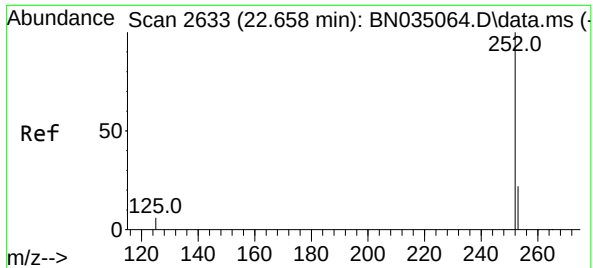
Tgt Ion:264 Resp: 15329
Ion Ratio Lower Upper
264 100
260 26.3 20.9 31.3
265 47.3 35.4 53.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.374 ng
RT: 25.449 min Scan# 3591
Delta R.T. -0.004 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion:276 Resp: 22879
Ion Ratio Lower Upper
276 100
138 16.7 13.0 19.4
277 24.7 19.8 29.6

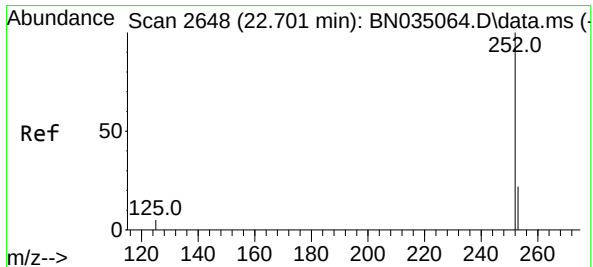
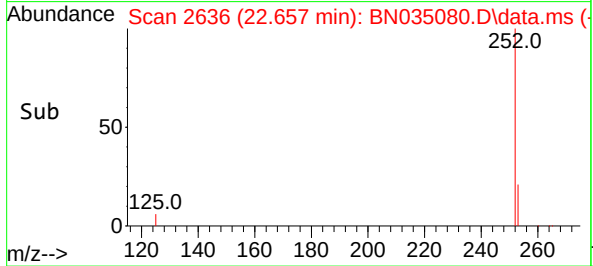
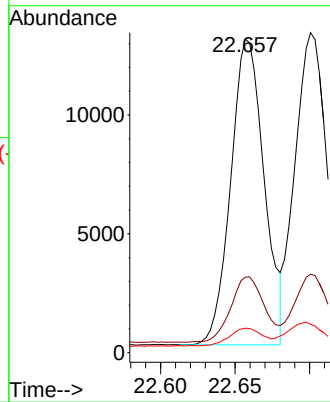
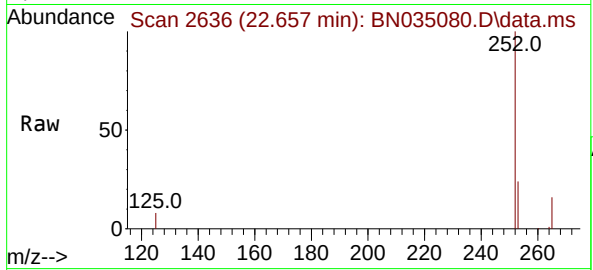




#37
Benzo(b)fluoranthene
Concen: 0.388 ng
RT: 22.657 min Scan# 2636
Delta R.T. -0.001 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

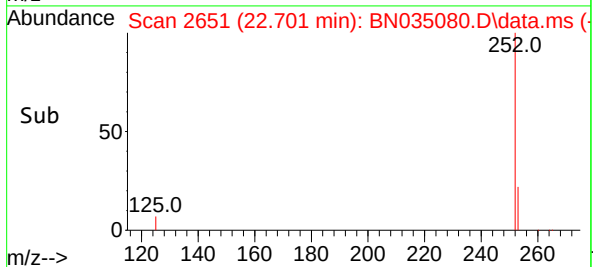
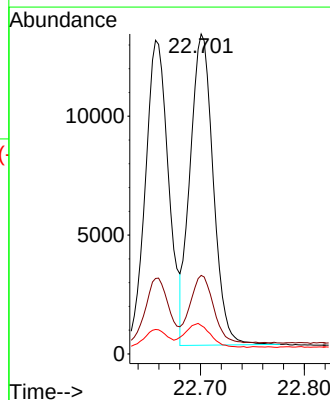
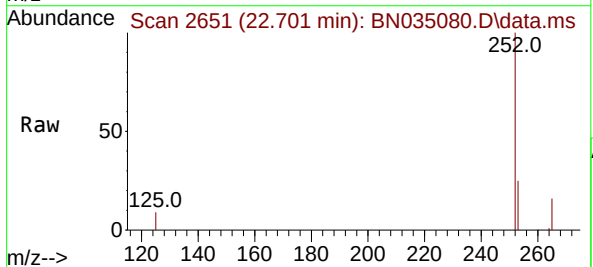
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

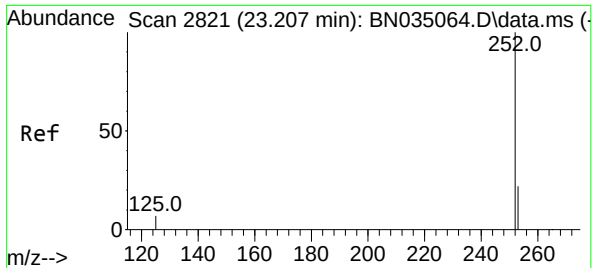
Tgt Ion:252 Resp: 20028
Ion Ratio Lower Upper
252 100
253 24.1 19.3 28.9
125 7.8 6.2 9.2



#38
Benzo(k)fluoranthene
Concen: 0.391 ng
RT: 22.701 min Scan# 2651
Delta R.T. -0.001 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion:252 Resp: 20172
Ion Ratio Lower Upper
252 100
253 24.6 19.5 29.3
125 8.9 6.5 9.7

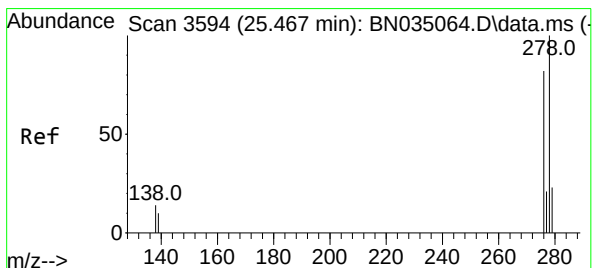
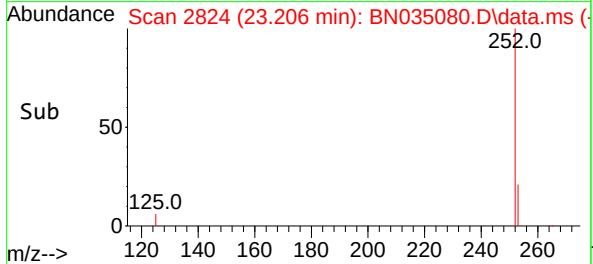
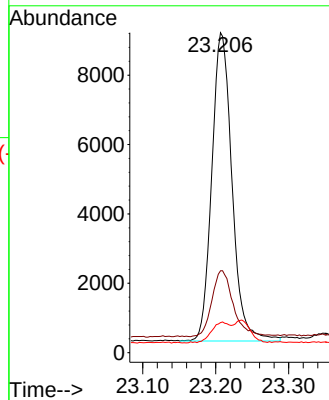
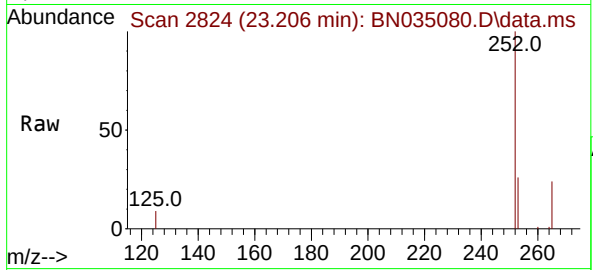




#39
Benzo(a)pyrene
Concen: 0.377 ng
RT: 23.206 min Scan# 21
Delta R.T. -0.001 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

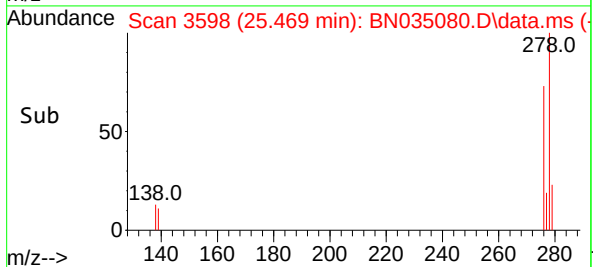
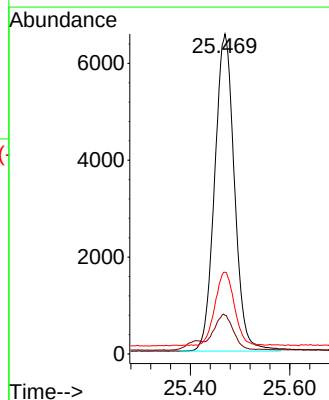
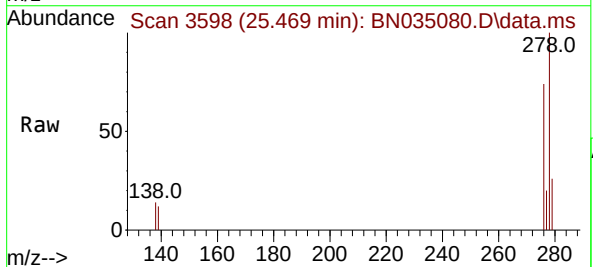
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

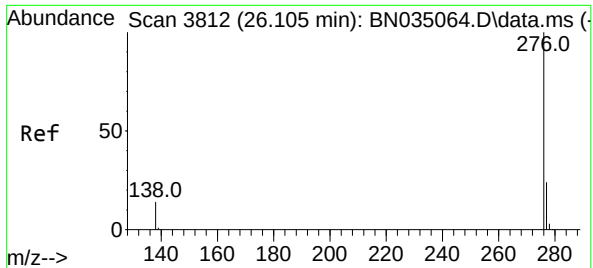
Tgt Ion:	252	Resp:	17089
Ion Ratio	Lower	Upper	
252	100		
253	25.6	20.1	30.1
125	9.4	7.5	11.3



#40
Dibenzo(a,h)anthracene
Concen: 0.373 ng
RT: 25.469 min Scan# 3598
Delta R.T. 0.002 min
Lab File: BN035080.D
Acq: 13 Nov 2024 23:24

Tgt Ion:	278	Resp:	18070
Ion Ratio	Lower	Upper	
278	100		
139	12.1	9.3	13.9
279	25.5	19.7	29.5





#41

Benzo(g,h,i)perylene

Concen: 0.363 ng

RT: 26.104 min Scan# 31

Delta R.T. -0.001 min

Lab File: BN035080.D

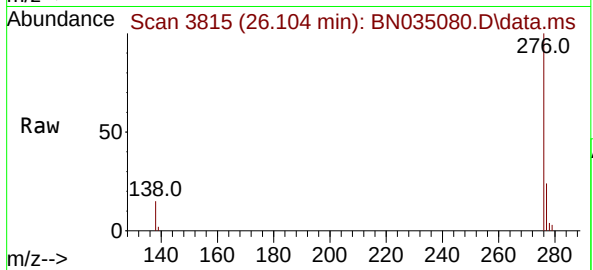
Acq: 13 Nov 2024 23:24

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



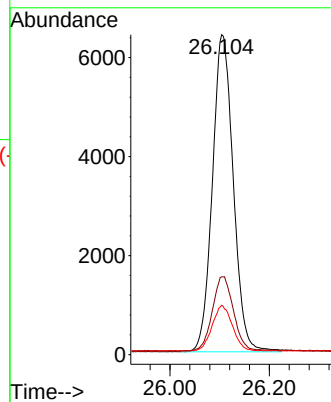
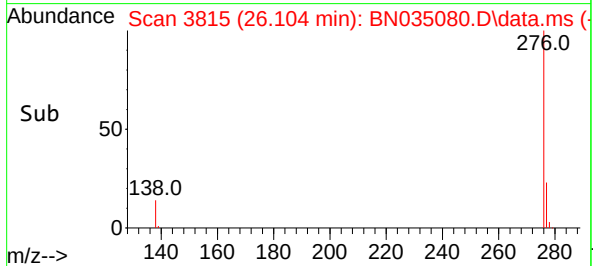
Tgt Ion:276 Resp: 18724

Ion Ratio Lower Upper

276 100

277 24.3 19.9 29.9

138 15.5 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035080.D
Acq On : 13 Nov 2024 23:24
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 14 02:08:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
2	1,4-Dioxane	0.363	0.342	5.8	92	0.00
3	n-Nitrosodimethylamine	0.339	0.298	12.1	82	0.00
4 S	2-Fluorophenol	1.015	0.932	8.2	89	0.00
5 S	Phenol-d6	1.273	1.205	5.3	94	0.00
6	bis(2-Chloroethyl)ether	0.956	0.892	6.7	90	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	92	0.00
8 S	Nitrobenzene-d5	0.348	0.315	9.5	91	0.00
9	Naphthalene	1.044	0.973	6.8	92	0.00
10	Hexachlorobutadiene	0.306	0.286	6.5	90	0.00
11 SURR	2-Methylnaphthalene-d10	0.713	0.667	6.5	93	0.00
12	2-Methylnaphthalene	0.770	0.723	6.1	94	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	94	0.00
14 S	2,4,6-Tribromophenol	0.289	0.245	15.2	96	0.00
15 S	2-Fluorobiphenyl	1.624	1.467	9.7	94	0.00
16	Acenaphthylene	1.709	1.502	12.1	95	0.00
17	Acenaphthene	1.120	1.000	10.7	94	0.00
18	Fluorene	1.648	1.501	8.9	96	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00
20	4,6-Dinitro-2-methylphenol	0.083	0.069	16.9	91	0.00
21	4-Bromophenyl-phenylether	0.255	0.241	5.5	95	0.00
22	Hexachlorobenzene	0.264	0.248	6.1	95	0.00
23	Atrazine	0.229	0.202	11.8	90	0.00
24	Pentachlorophenol	0.124	0.095	23.4	88	0.00
25	Phenanthrene	1.053	1.020	3.1	98	0.00
26	Anthracene	0.967	0.902	6.7	94	0.00
27 SURR	Fluoranthene-d10	1.225	1.141	6.9	94	0.00
28	Fluoranthene	1.448	1.360	6.1	94	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	92	0.00
30	Pyrene	1.332	1.305	2.0	93	0.00
31 S	Terphenyl-d14	0.839	0.813	3.1	93	0.00
32	Benzo(a)anthracene	1.393	1.305	6.3	91	0.00
33	Chrysene	1.380	1.354	1.9	94	0.00
34	Bis(2-ethylhexyl)phthalate	0.731	0.593	18.9	84	0.00
35 I	Perylene-d12	1.000	1.000	0.0	90	0.00
36	Indeno(1,2,3-cd)pyrene	1.596	1.493	6.5	88	0.00
37	Benzo(b)fluoranthene	1.346	1.307	2.9	92	0.00
38	Benzo(k)fluoranthene	1.347	1.316	2.3	92	0.00
39 C	Benzo(a)pyrene	1.184	1.115	5.8	89	0.00
40	Dibenzo(a,h)anthracene	1.264	1.179	6.7	87	0.00
41	Benzo(g,h,i)perylene	1.345	1.221	9.2	85	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035080.D
Acq On : 13 Nov 2024 23:24
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 14 02:08:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	90	0.00
2	1,4-Dioxane	0.400	0.377	5.8	92	0.00
3	n-Nitrosodimethylamine	0.400	0.352	12.0	82	0.00
4 S	2-Fluorophenol	0.400	0.367	8.3	89	0.00
5 S	Phenol-d6	0.400	0.379	5.3	94	0.00
6	bis(2-Chloroethyl)ether	0.400	0.373	6.8	90	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	92	0.00
8 S	Nitrobenzene-d5	0.400	0.362	9.5	91	0.00
9	Naphthalene	0.400	0.373	6.8	92	0.00
10	Hexachlorobutadiene	0.400	0.374	6.5	90	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.374	6.5	93	0.00
12	2-Methylnaphthalene	0.400	0.375	6.3	94	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	94	0.00
14 S	2,4,6-Tribromophenol	0.400	0.340	15.0	96	0.00
15 S	2-Fluorobiphenyl	0.400	0.361	9.8	94	0.00
16	Acenaphthylene	0.400	0.352	12.0	95	0.00
17	Acenaphthene	0.400	0.357	10.8	94	0.00
18	Fluorene	0.400	0.364	9.0	96	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	96	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.331	17.3	91	0.00
21	4-Bromophenyl-phenylether	0.400	0.379	5.3	95	0.00
22	Hexachlorobenzene	0.400	0.375	6.3	95	0.00
23	Atrazine	0.400	0.353	11.8	90	0.00
24	Pentachlorophenol	0.400	0.308	23.0	88	0.00
25	Phenanthrene	0.400	0.387	3.3	98	0.00
26	Anthracene	0.400	0.373	6.8	94	0.00
27 SURR	Fluoranthene-d10	0.400	0.372	7.0	94	0.00
28	Fluoranthene	0.400	0.376	6.0	94	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	92	0.00
30	Pyrene	0.400	0.392	2.0	93	0.00
31 S	Terphenyl-d14	0.400	0.388	3.0	93	0.00
32	Benzo(a)anthracene	0.400	0.375	6.3	91	0.00
33	Chrysene	0.400	0.392	2.0	94	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.324	19.0	84	0.00
35 I	Perylene-d12	0.400	0.400	0.0	90	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.374	6.5	88	0.00
37	Benzo(b)fluoranthene	0.400	0.388	3.0	92	0.00
38	Benzo(k)fluoranthene	0.400	0.391	2.3	92	0.00
39 C	Benzo(a)pyrene	0.400	0.377	5.8	89	0.00
40	Dibenzo(a,h)anthracene	0.400	0.373	6.8	87	0.00
41	Benzo(g,h,i)perylene	0.400	0.363	9.3	85	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.: P4773 SAS No.: P4773 SDG No.: P4773

Instrument ID: BNA_N Calibration Date/Time: 11/14/2024 10:12

Lab File ID: BN035082.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:40 16:15

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.713	0.656		-8.0	20.0
Fluoranthene-d10	1.225	1.132		-7.6	20.0
2-Fluorophenol	1.015	0.916		-9.8	20.0
Phenol-d6	1.273	1.184		-7.0	20.0
Nitrobenzene-d5	0.348	0.308		-11.5	20.0
2-Fluorobiphenyl	1.624	1.452		-10.6	20.0
2,4,6-Tribromophenol	0.289	0.230		-20.4	20.0
Terphenyl-d14	0.839	0.812		-3.2	20.0
1,4-Dioxane	0.363	0.354		-2.5	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
 Data File : BN035082.D
 Acq On : 14 Nov 2024 10:12
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Nov 14 11:23:30 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 17:18:14 2024
 Response via : Initial Calibration

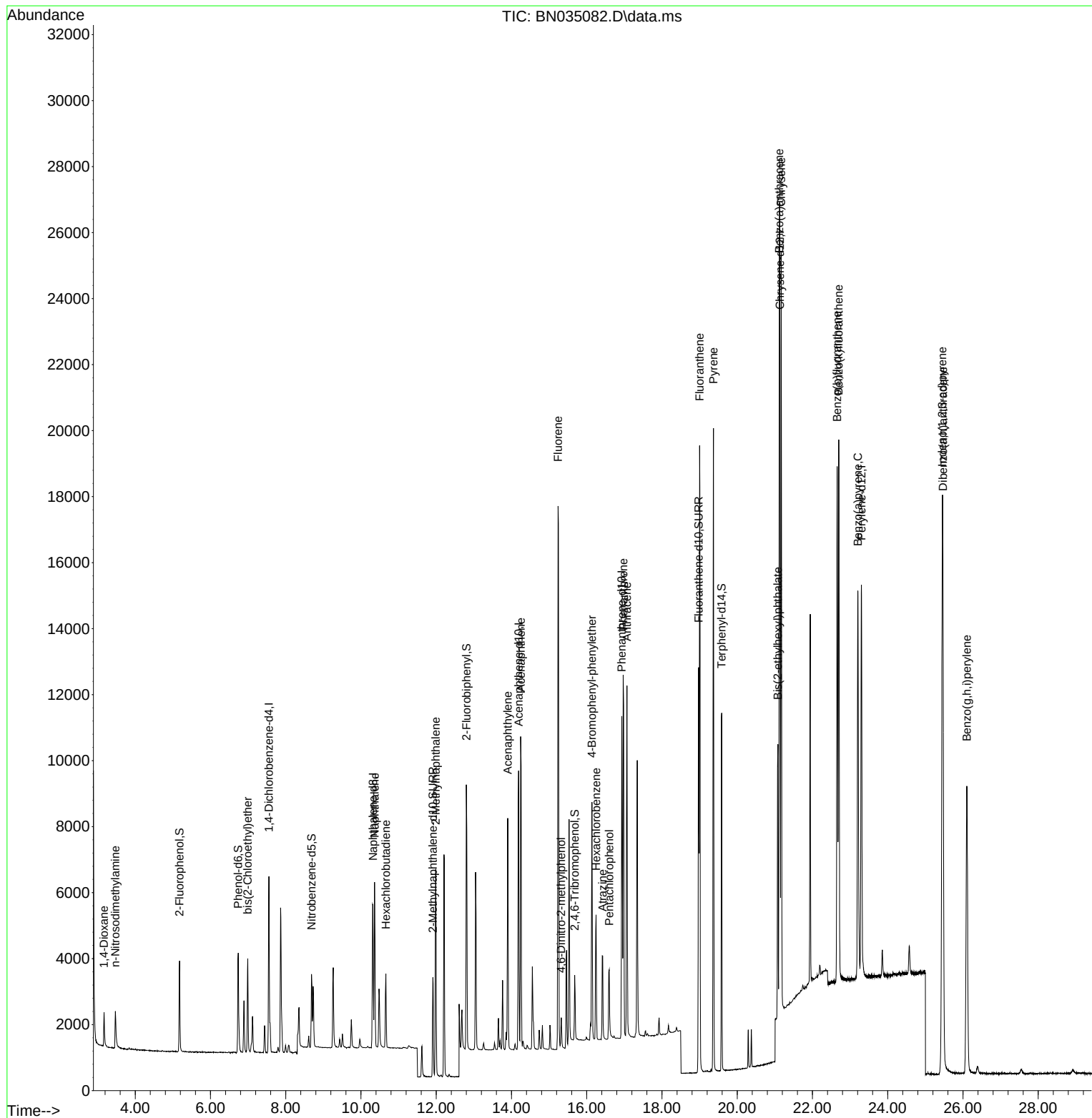
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2551	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6362	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	5037	0.400	ng	0.00
19) Phenanthrene-d10	16.933	188	12802	0.400	ng	# 0.00
29) Chrysene-d12	21.134	240	13485	0.400	ng	# 0.00
35) Perylene-d12	23.300	264	14730	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2337	0.361	ng	0.00
5) Phenol-d6	6.737	99	3021	0.372	ng	0.00
8) Nitrobenzene-d5	8.685	82	1962	0.354	ng	-0.01
11) 2-Methylnaphthalene-d10	11.912	152	4174	0.368	ng	0.00
14) 2,4,6-Tribromophenol	15.679	330	1156	0.318	ng	0.00
15) 2-Fluorobiphenyl	12.800	172	7315	0.358	ng	0.00
27) Fluoranthene-d10	18.973	212	14490	0.369	ng	0.00
31) Terphenyl-d14	19.587	244	10949	0.387	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.169	88	904	0.390	ng	95
3) n-Nitrosodimethylamine	3.473	42	764	0.354	ng	# 91
6) bis(2-Chloroethyl)ether	6.990	93	2254	0.370	ng	100
9) Naphthalene	10.362	128	6136	0.369	ng	100
10) Hexachlorobutadiene	10.661	225	1828	0.375	ng	# 98
12) 2-Methylnaphthalene	11.988	142	4509	0.368	ng	100
16) Acenaphthylene	13.901	152	7457	0.346	ng	99
17) Acenaphthene	14.244	154	5010	0.355	ng	99
18) Fluorene	15.238	166	7349	0.354	ng	100
20) 4,6-Dinitro-2-methylph...	15.323	198	901	0.338	ng	# 87
21) 4-Bromophenyl-phenylether	16.138	248	3068	0.376	ng	# 87
22) Hexachlorobenzene	16.250	284	3196	0.378	ng	99
23) Atrazine	16.424	200	2496	0.341	ng	# 94
24) Pentachlorophenol	16.597	266	1334	0.337	ng	99
25) Phenanthrene	16.970	178	12799	0.380	ng	100
26) Anthracene	17.069	178	11435	0.370	ng	99
28) Fluoranthene	19.001	202	17255	0.372	ng	100
30) Pyrene	19.368	202	17691	0.394	ng	100
32) Benzo(a)anthracene	21.116	228	17743	0.378	ng	99
33) Chrysene	21.169	228	18097	0.389	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	7841	0.318	ng	100
36) Indeno(1,2,3-cd)pyrene	25.452	276	21866	0.372	ng	99
37) Benzo(b)fluoranthene	22.657	252	19067	0.385	ng	100
38) Benzo(k)fluoranthene	22.698	252	19945	0.402	ng	99
39) Benzo(a)pyrene	23.206	252	16523	0.379	ng	100
40) Dibenzo(a,h)anthracene	25.466	278	17299	0.372	ng	98
41) Benzo(g,h,i)perylene	26.101	276	17799	0.359	ng	99

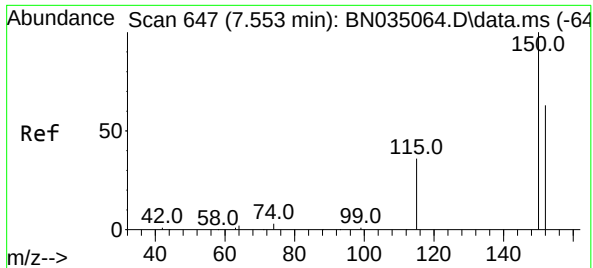
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035082.D
Acq On : 14 Nov 2024 10:12
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Nov 14 11:23:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

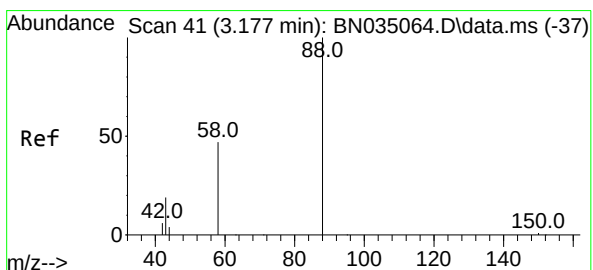
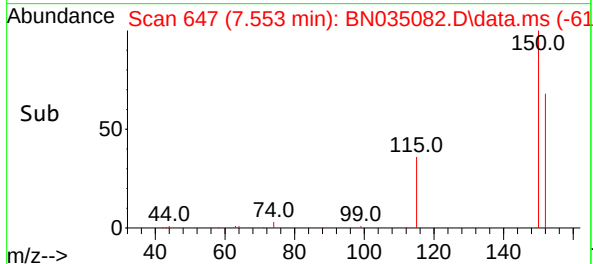
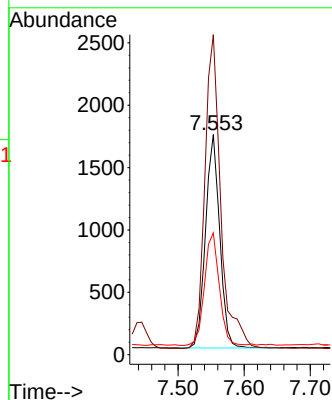
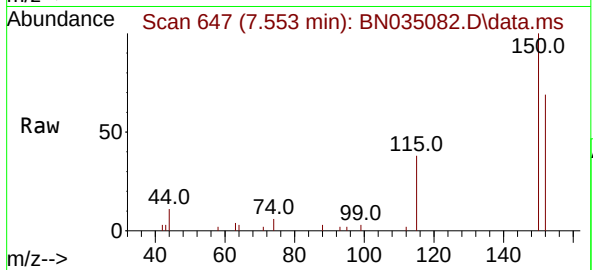




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

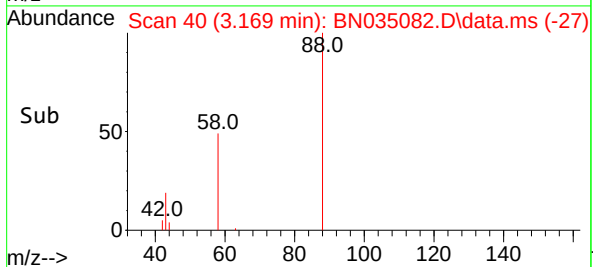
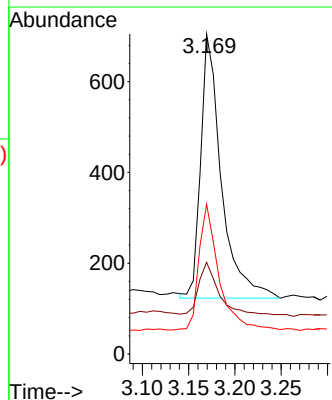
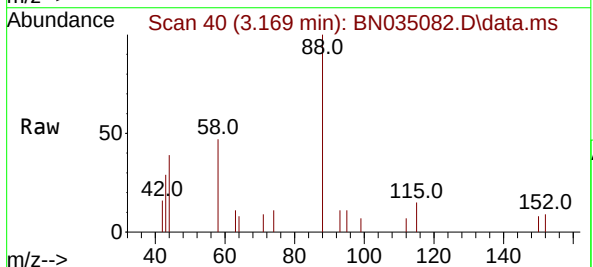
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

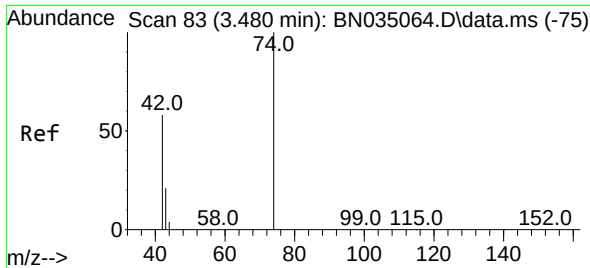
Tgt Ion:152 Resp: 2551
Ion Ratio Lower Upper
152 100
150 145.3 124.5 186.7
115 55.3 47.8 71.6



#2
1,4-Dioxane
Concen: 0.390 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion: 88 Resp: 904
Ion Ratio Lower Upper
88 100
43 18.6 16.9 25.3
58 45.7 39.0 58.4

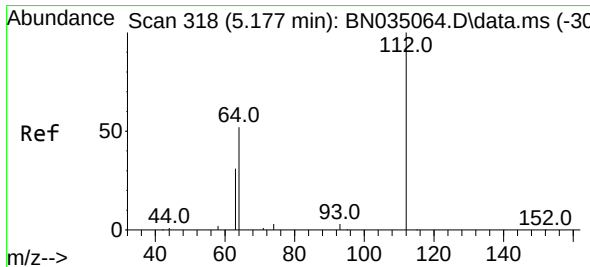
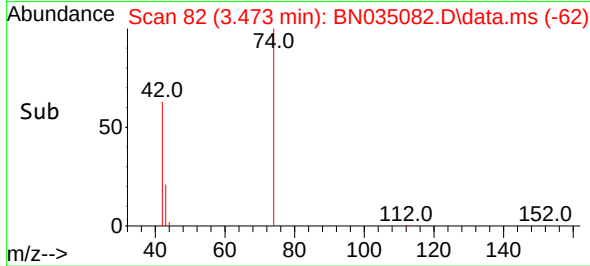
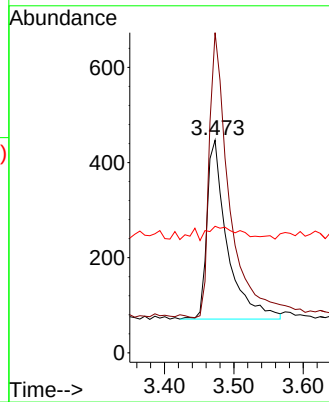
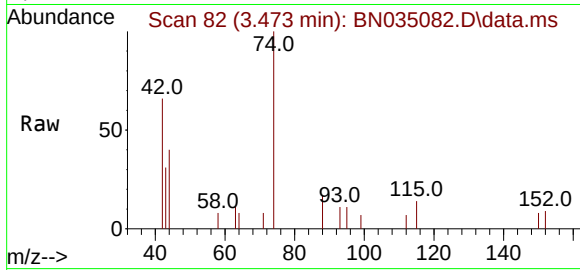




#3
n-Nitrosodimethylamine
Concen: 0.354 ng
RT: 3.473 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

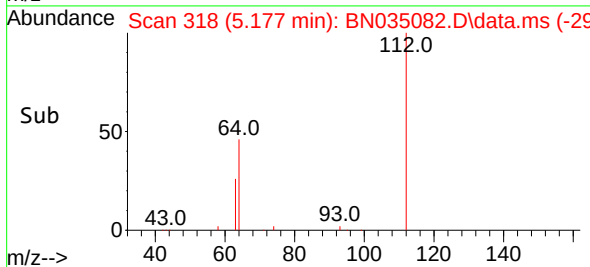
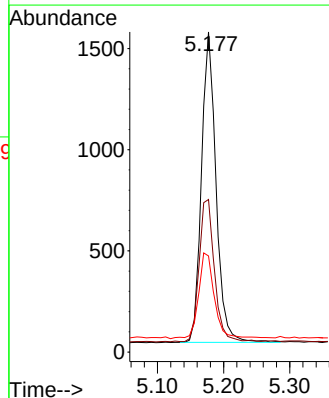
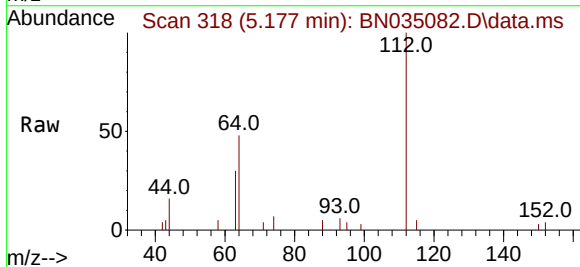
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

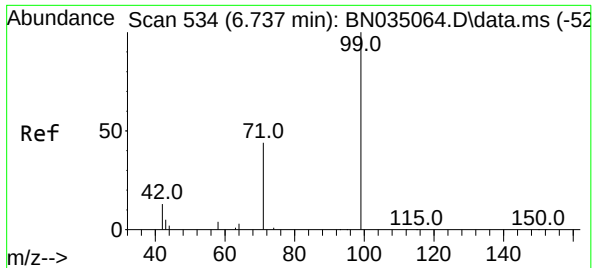
Tgt Ion: 42 Resp: 764
Ion Ratio Lower Upper
42 100
74 162.4 120.8 181.2
44 12.7 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.361 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion: 112 Resp: 2337
Ion Ratio Lower Upper
112 100
64 48.7 39.7 59.5
63 30.6 23.0 34.4

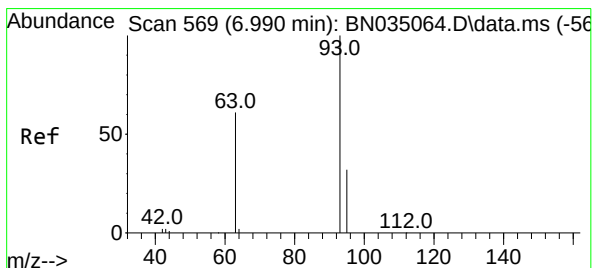
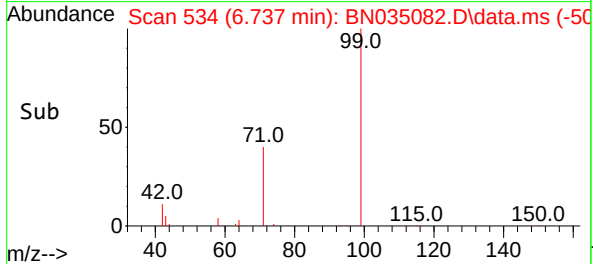
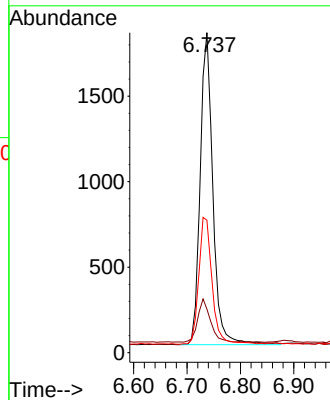
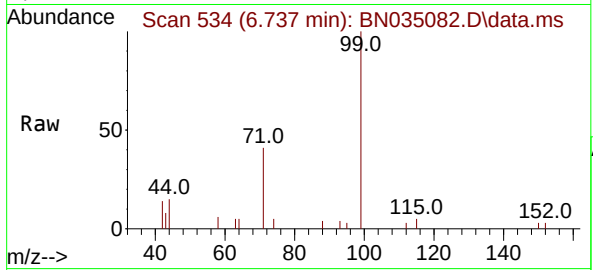




#5
Phenol-d6
Concen: 0.372 ng
RT: 6.737 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

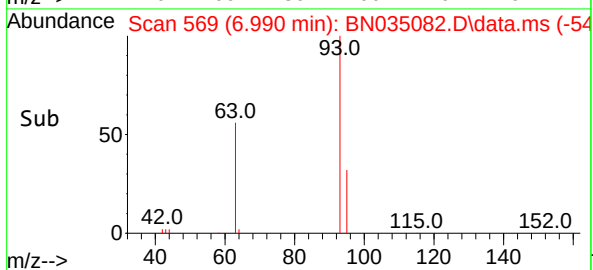
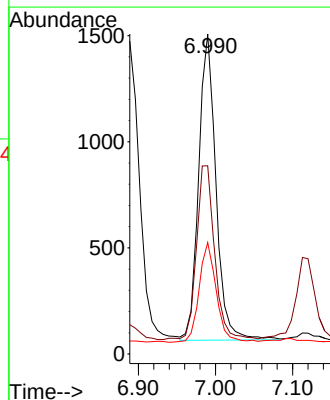
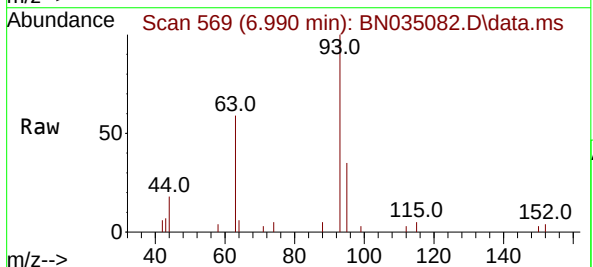
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

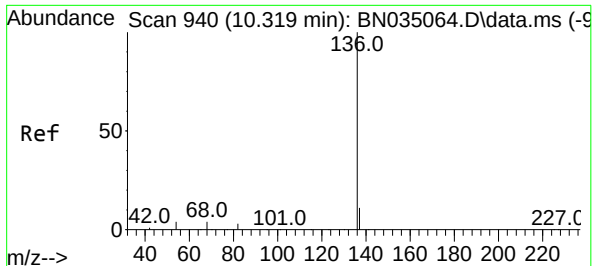
Tgt Ion: 99 Resp: 3021
Ion Ratio Lower Upper
99 100
42 13.5 11.4 17.0
71 42.6 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.370 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion: 93 Resp: 2254
Ion Ratio Lower Upper
93 100
63 59.5 47.4 71.2
95 32.5 26.2 39.4

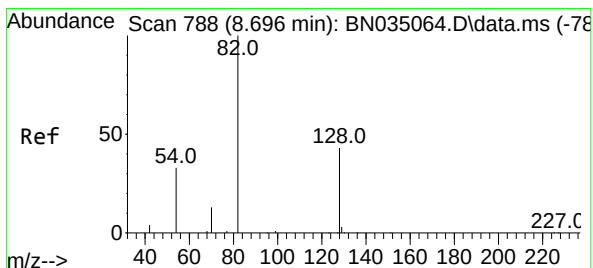
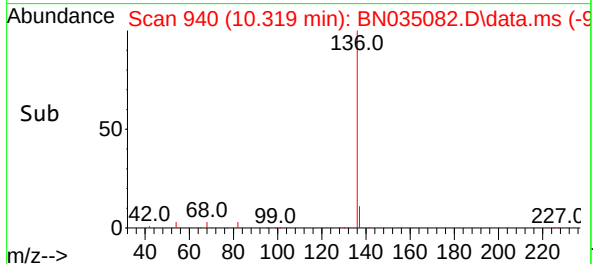
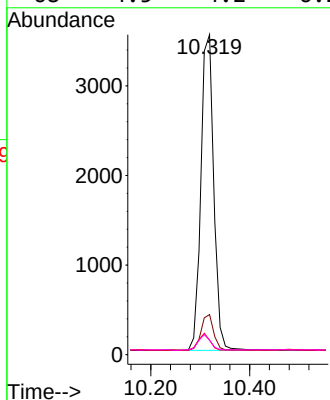
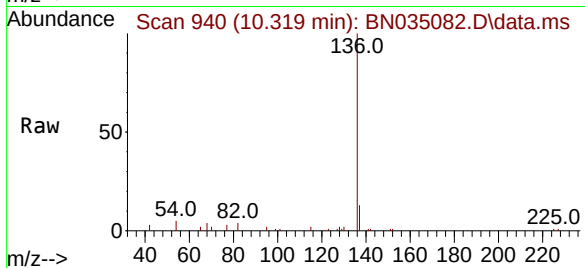




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

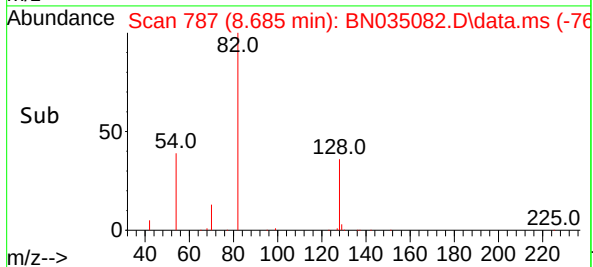
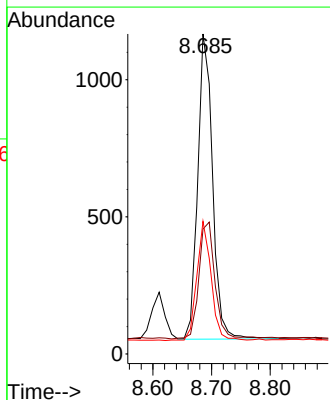
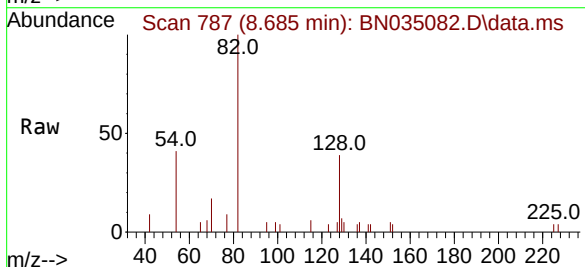
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

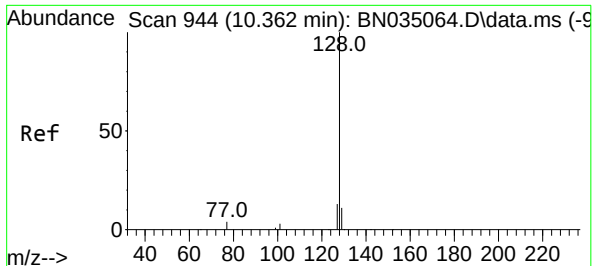
Tgt Ion:	136	Resp:	6362
Ion	Ratio	Lower	Upper
136	100		
137	12.5	9.8	14.8
54	4.6	4.0	6.0
68	4.5	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.354 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:	82	Resp:	1962
Ion	Ratio	Lower	Upper
82	100		
128	39.1	36.5	54.7
54	41.5	28.7	43.1

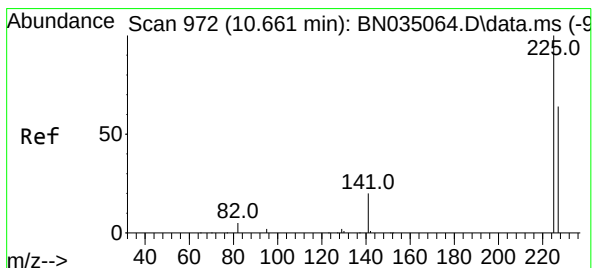
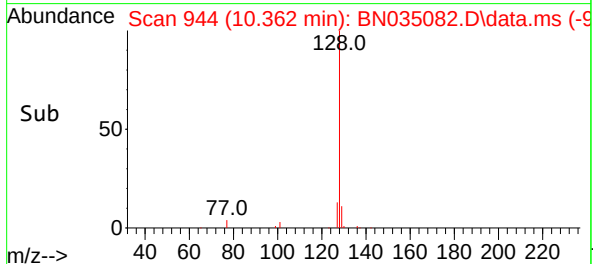
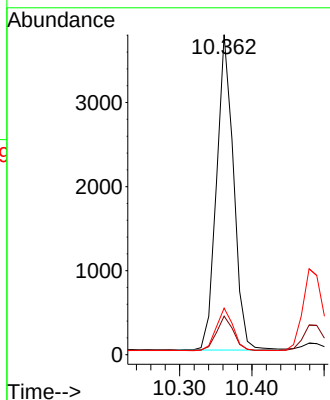
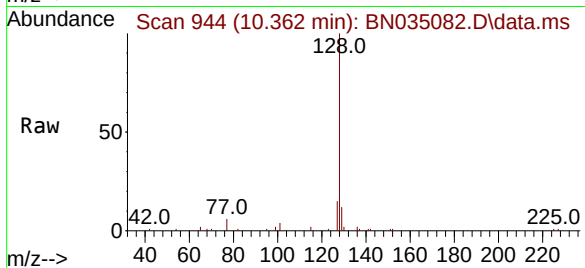




#9
Naphthalene
Concen: 0.369 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

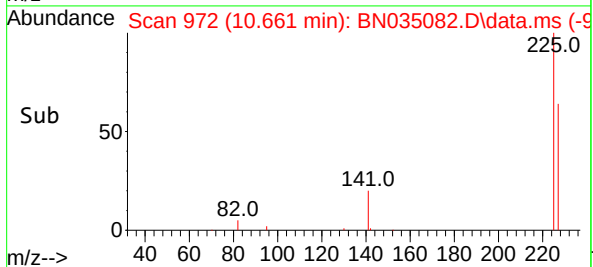
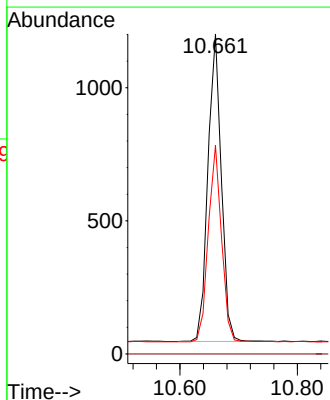
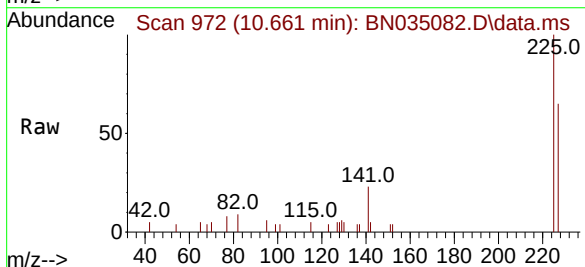
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

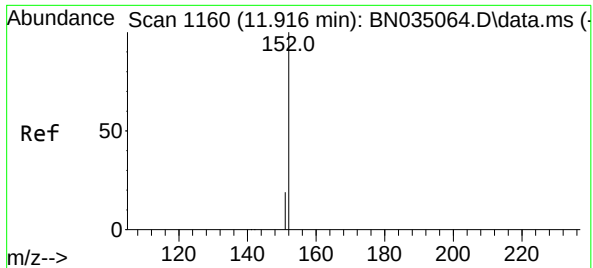
Tgt Ion:	128	Resp:	6136
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.6	14.4
127	14.6	11.6	17.4



#10
Hexachlorobutadiene
Concen: 0.375 ng
RT: 10.661 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:	225	Resp:	1828
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.0	51.5	77.3

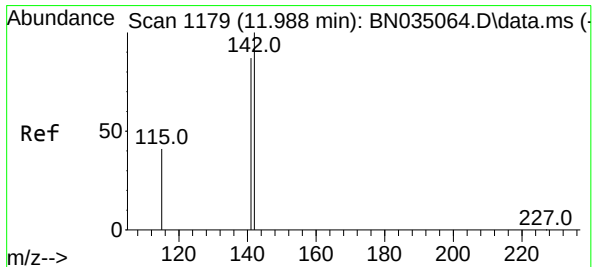
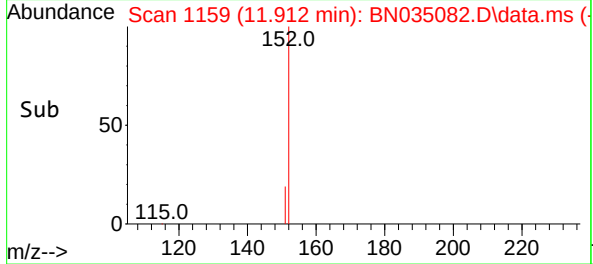
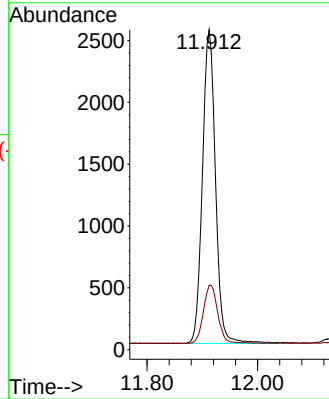
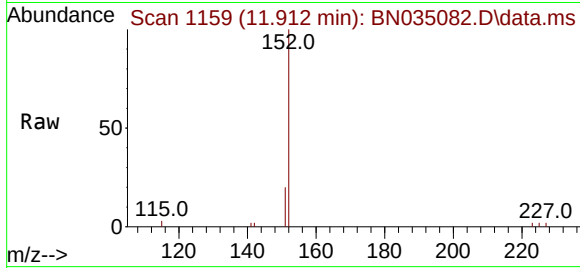




#11
2-Methylnaphthalene-d10
Concen: 0.368 ng
RT: 11.912 min Scan# 1160
Delta R.T. -0.004 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

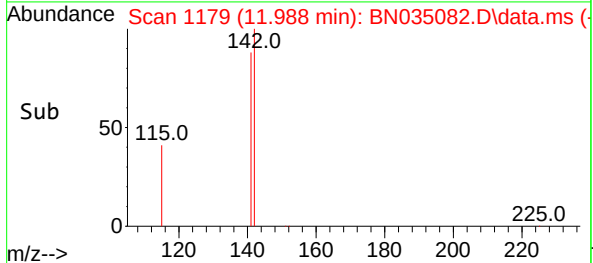
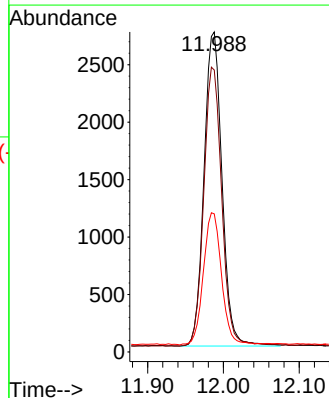
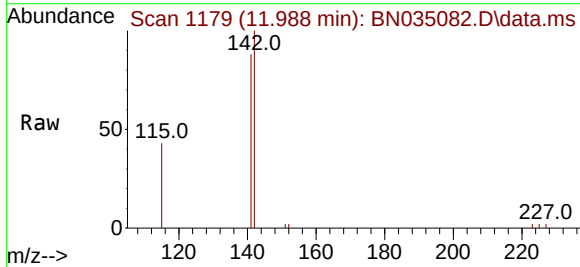
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

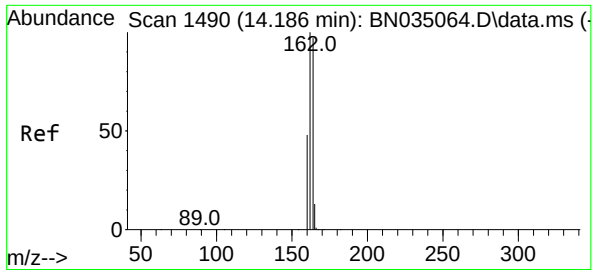
Tgt Ion:152 Resp: 4174
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.368 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:142 Resp: 4509
Ion Ratio Lower Upper
142 100
141 88.1 70.1 105.1
115 43.2 34.4 51.6

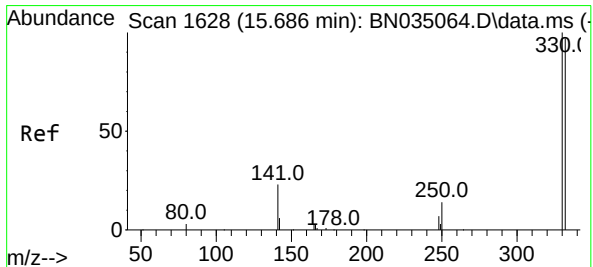
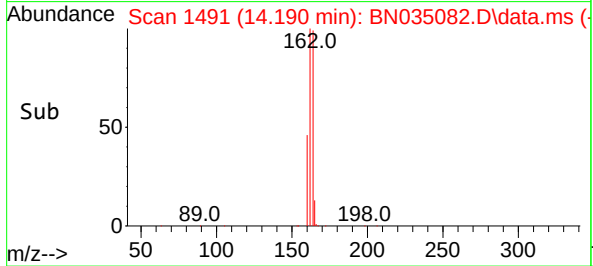
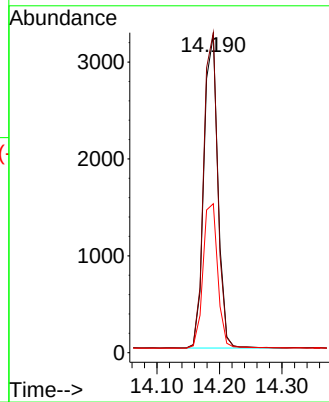
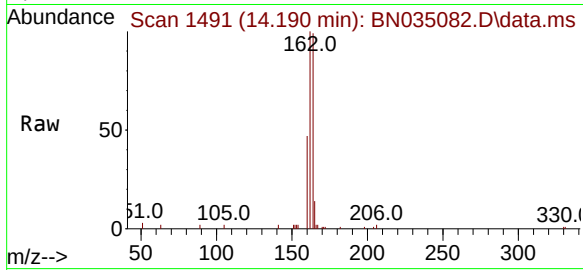




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

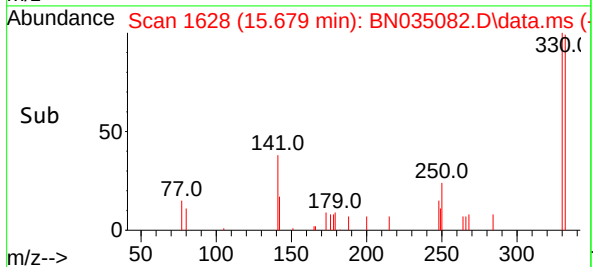
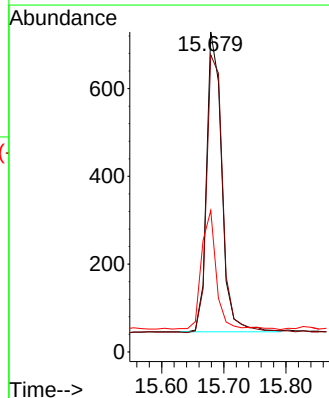
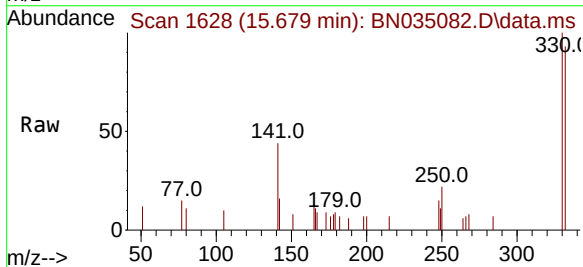
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

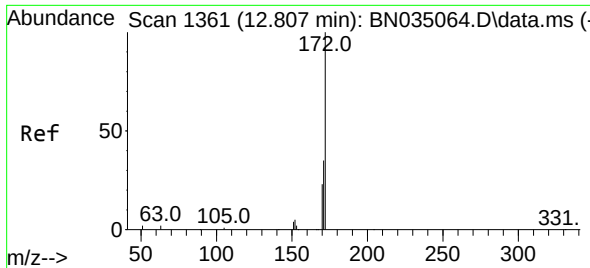
Tgt Ion:164 Resp: 5037
Ion Ratio Lower Upper
164 100
162 100.8 82.2 123.2
160 46.9 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:330 Resp: 1156
Ion Ratio Lower Upper
330 100
332 100.0 76.9 115.3
141 39.4 29.6 44.4

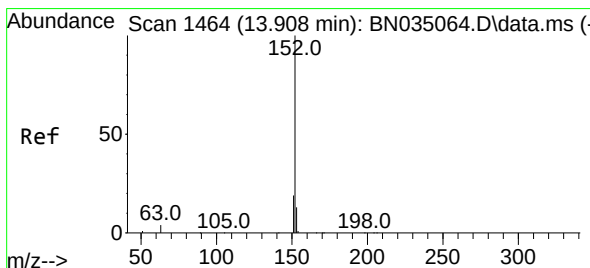
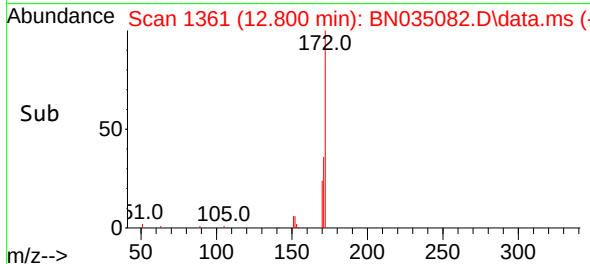
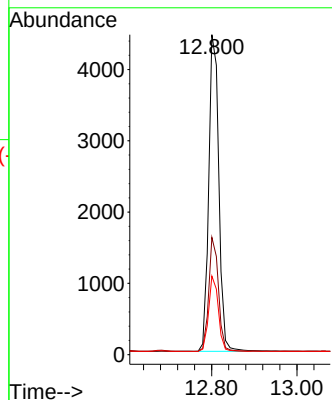
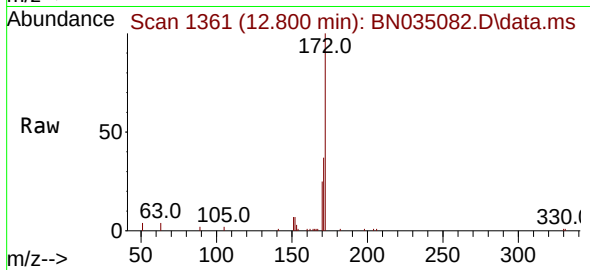




#15
2-Fluorobiphenyl
Concen: 0.358 ng
RT: 12.800 min Scan# 1361
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

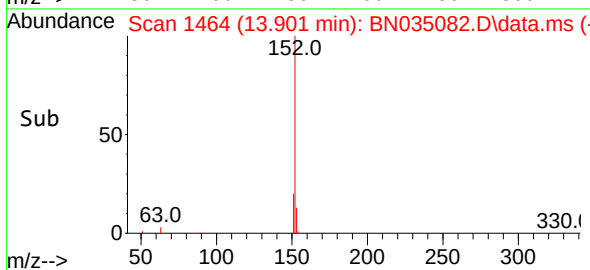
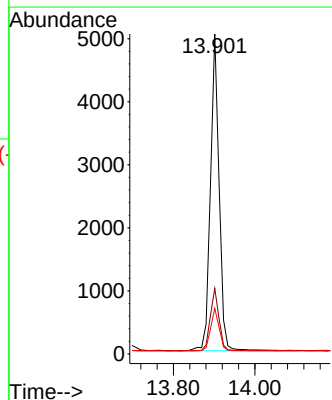
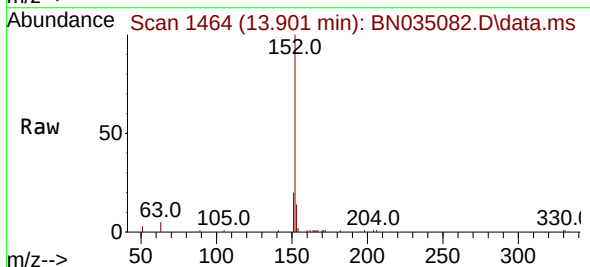
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

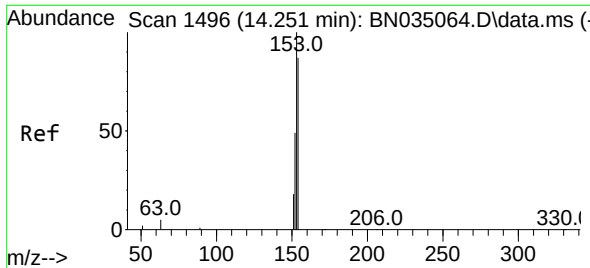
Tgt Ion:	172	Resp:	7315
Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.2	42.4
170	24.5	19.0	28.6



#16
Acenaphthylene
Concen: 0.346 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:	152	Resp:	7457
Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.8
153	13.6	10.2	15.4

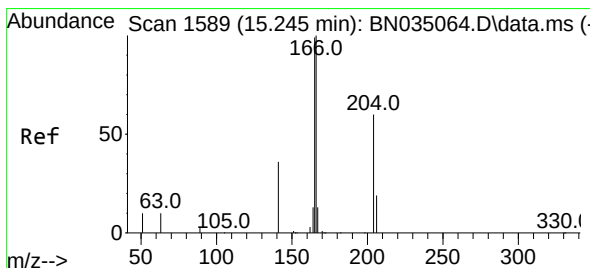
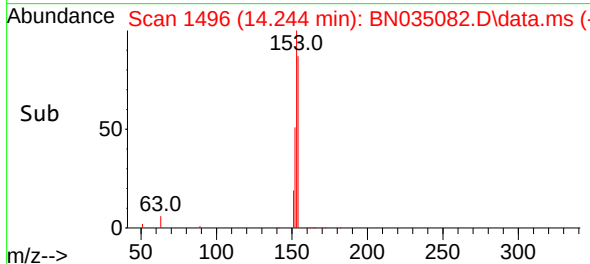
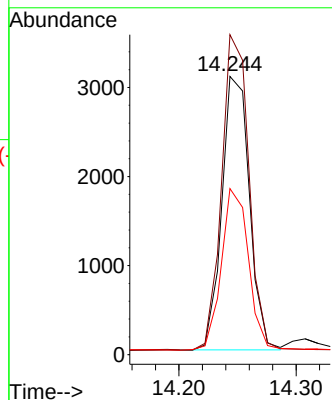
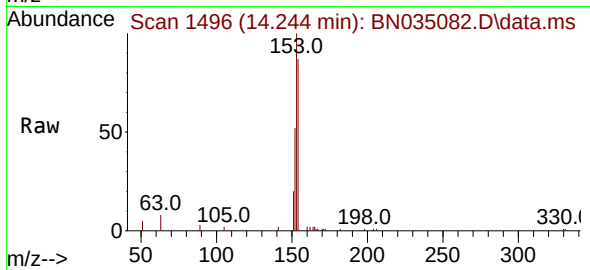




#17
Acenaphthene
Concen: 0.355 ng
RT: 14.244 min Scan# 1496
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

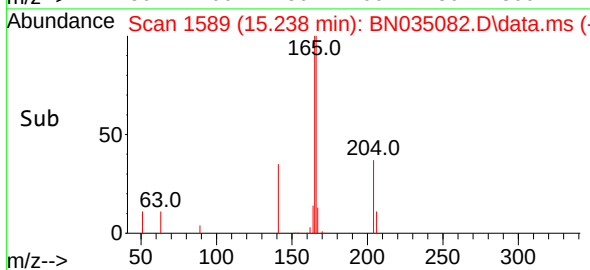
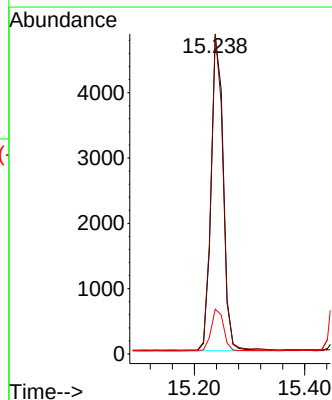
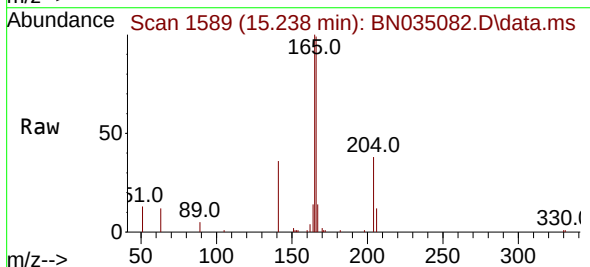
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

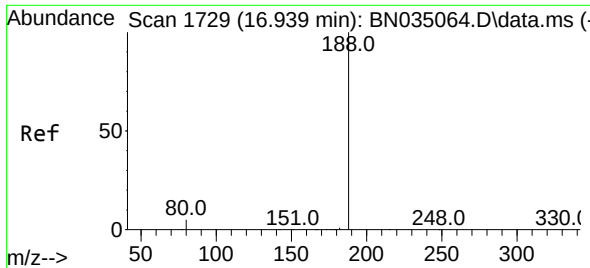
Tgt Ion:154 Resp: 5010
Ion Ratio Lower Upper
154 100
153 114.7 91.6 137.4
152 58.8 45.8 68.6



#18
Fluorene
Concen: 0.354 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:166 Resp: 7349
Ion Ratio Lower Upper
166 100
165 98.7 79.1 118.7
167 13.6 10.6 16.0

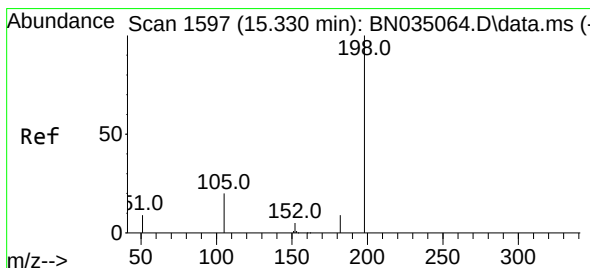
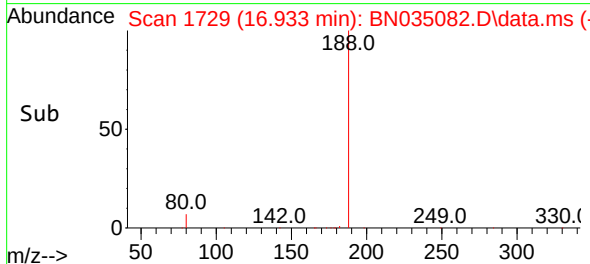
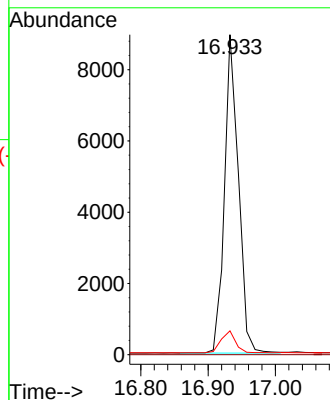
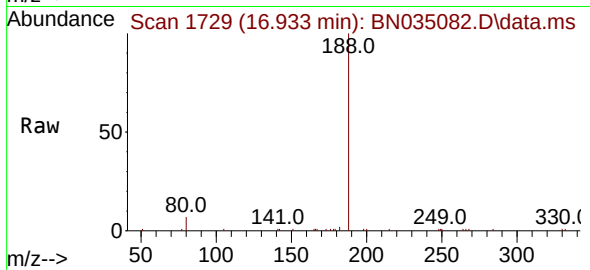




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.933 min Scan# 1729
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

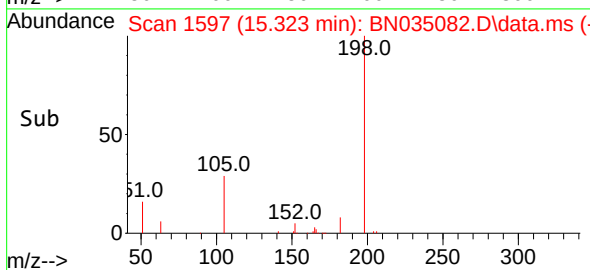
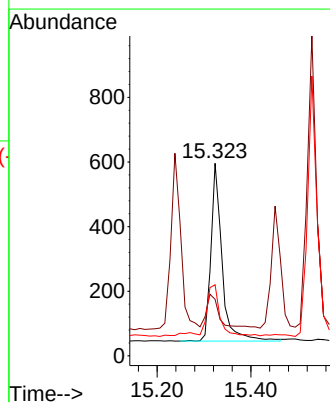
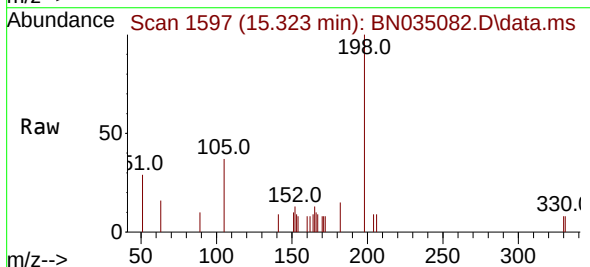
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

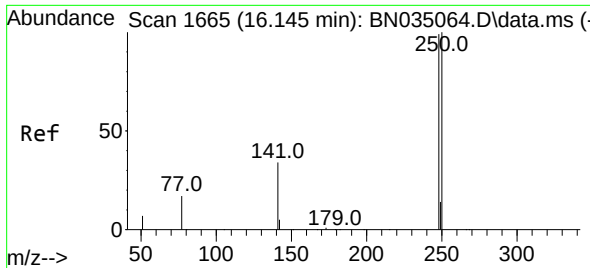
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.4	4.3	6.5#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.338 ng
RT: 15.323 min Scan# 1597
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion	Ratio	Lower	Upper
198	100		
51	29.4	29.9	44.9#
105	36.9	23.7	35.5#

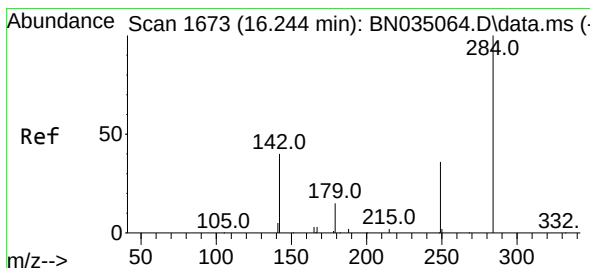
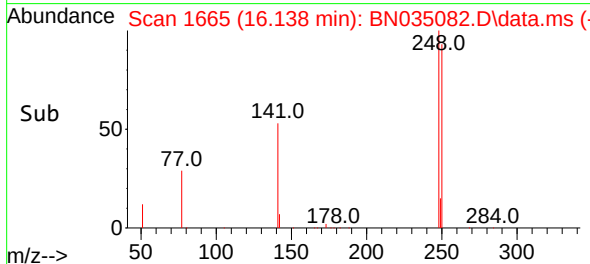
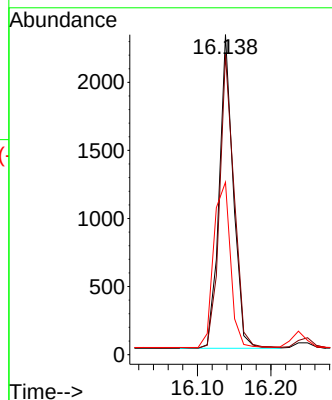
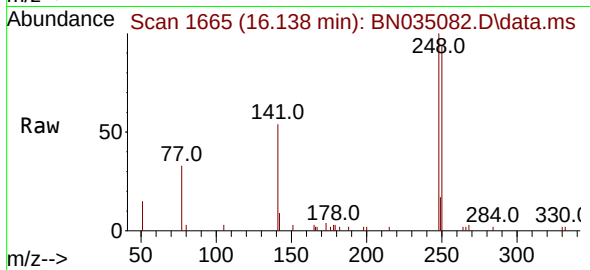




#21
4-Bromophenyl-phenylether
Concen: 0.376 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

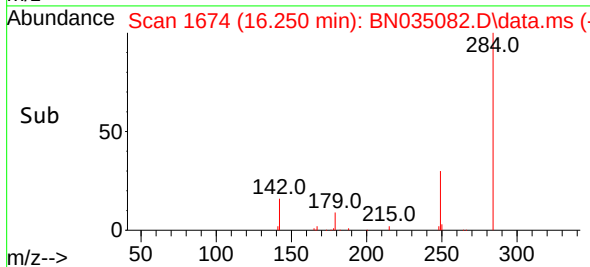
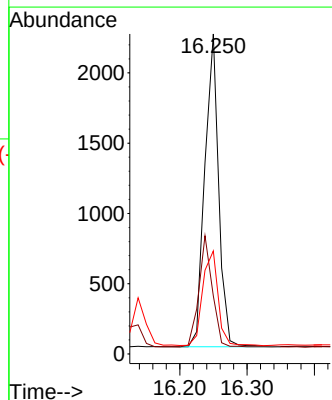
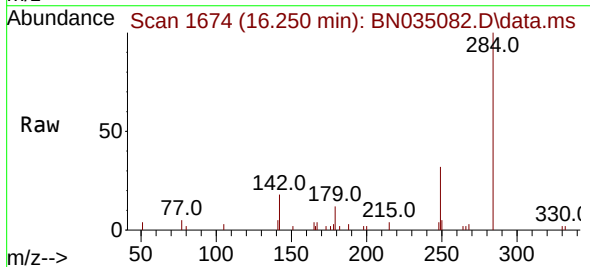
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

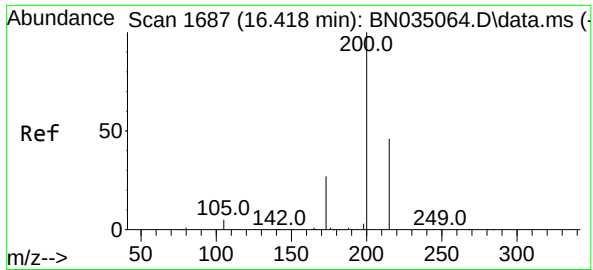
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.8	81.2	121.8
141	53.9	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.378 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.6	28.2	42.4
249	33.6	26.2	39.2

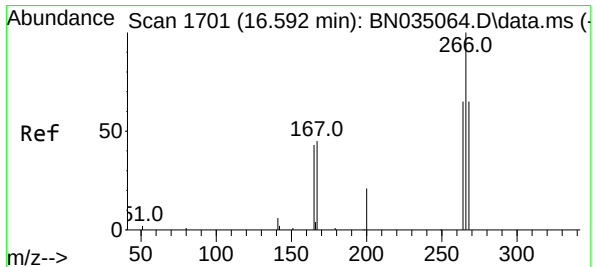
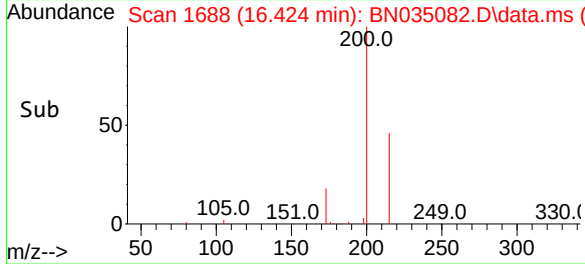
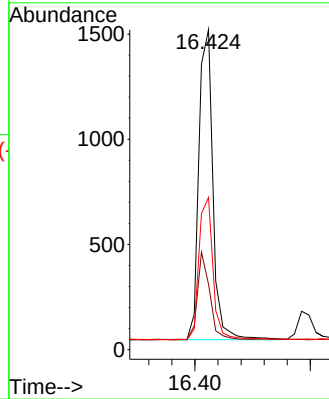
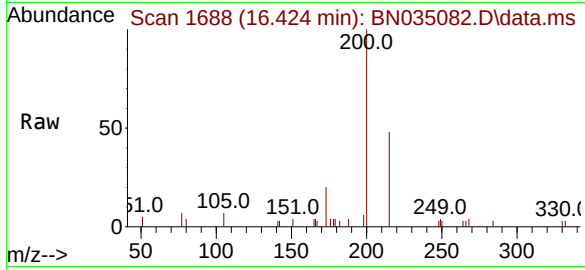




#23
Atrazine
Concen: 0.341 ng
RT: 16.424 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

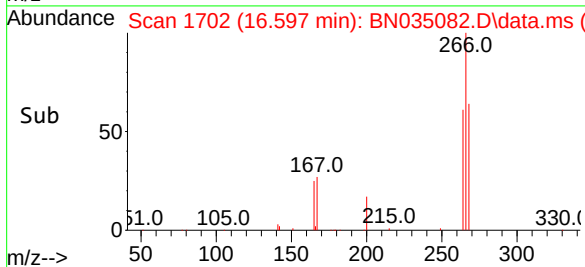
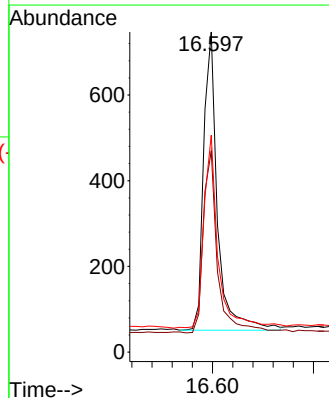
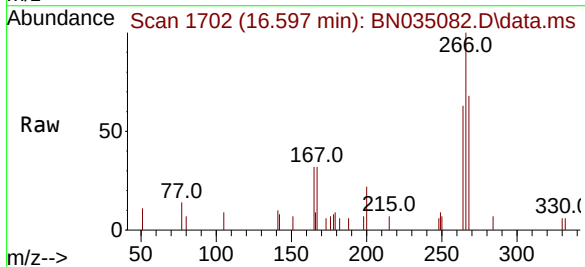
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

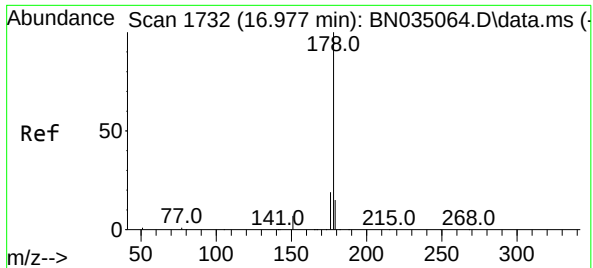
Tgt Ion:200 Resp: 2496
Ion Ratio Lower Upper
200 100
173 20.4 22.6 33.8#
215 47.5 37.8 56.6



#24
Pentachlorophenol
Concen: 0.337 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:266 Resp: 1334
Ion Ratio Lower Upper
266 100
264 62.4 49.4 74.0
268 66.0 52.6 79.0

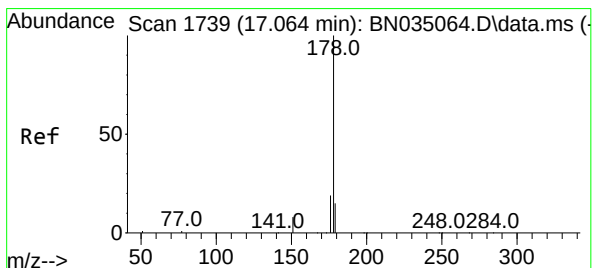
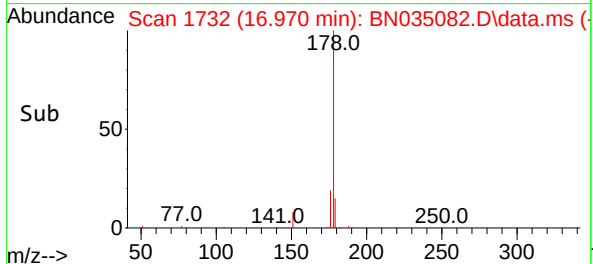
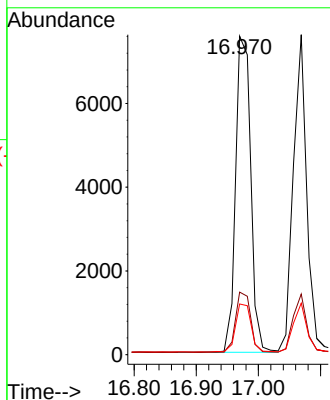
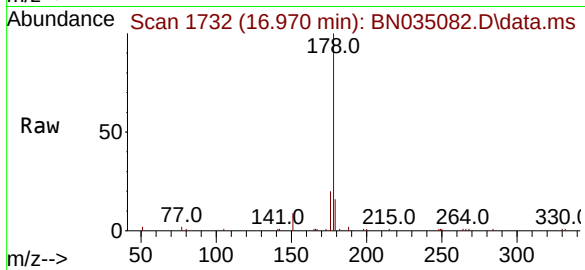




#25
Phenanthrene
Concen: 0.380 ng
RT: 16.970 min Scan# 1732
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

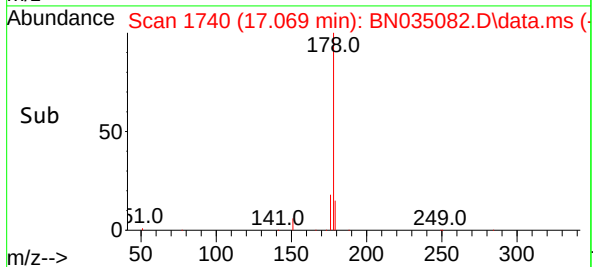
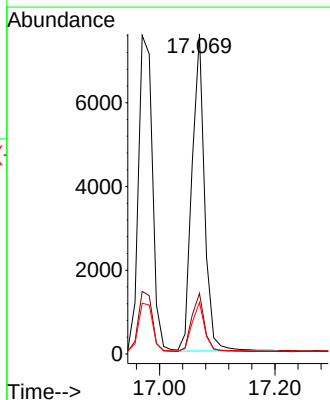
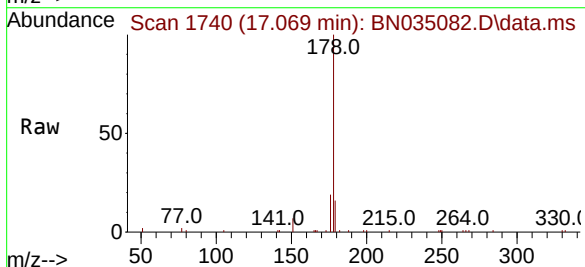
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

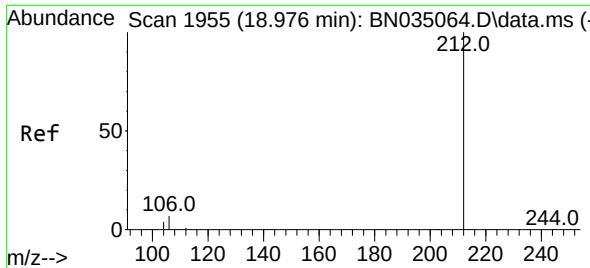
Tgt Ion:178 Resp: 12799
Ion Ratio Lower Upper
178 100
176 19.0 15.2 22.8
179 15.5 12.6 18.8



#26
Anthracene
Concen: 0.370 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:178 Resp: 11435
Ion Ratio Lower Upper
178 100
176 18.7 14.6 22.0
179 15.6 12.2 18.2

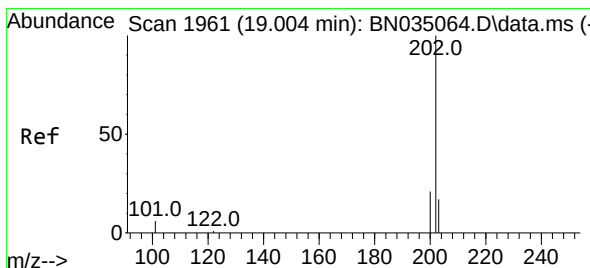
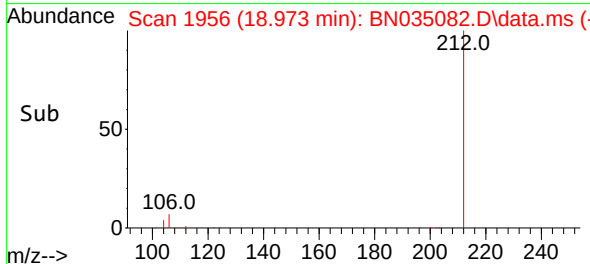
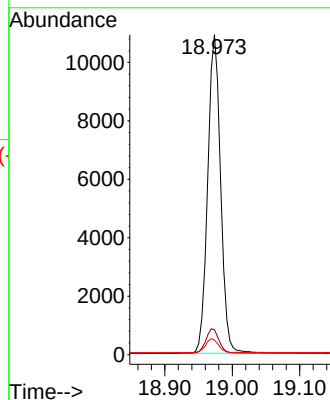
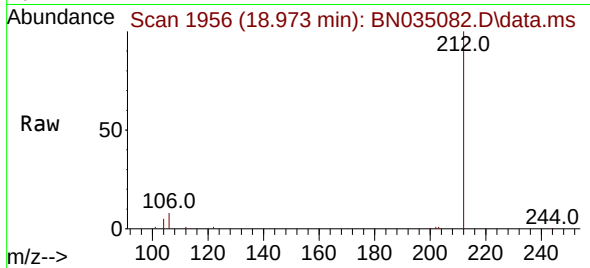




#27
Fluoranthene-d10
Concen: 0.369 ng
RT: 18.973 min Scan# 1955
Delta R.T. -0.002 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

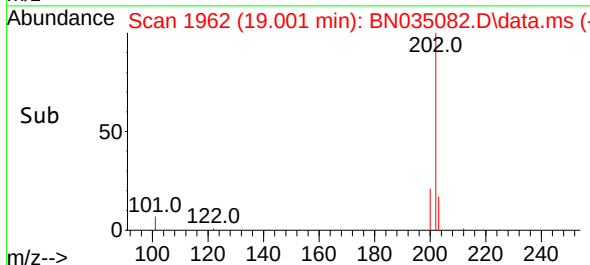
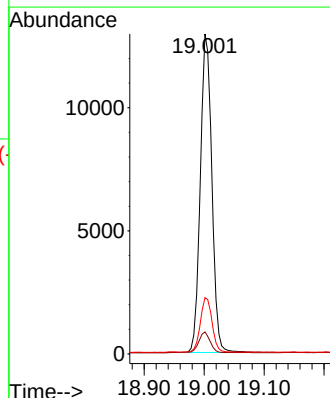
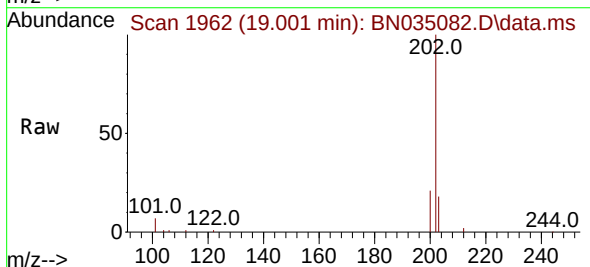
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

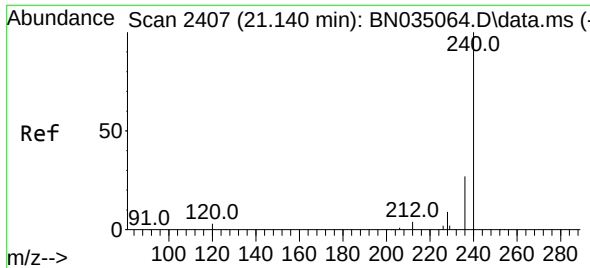
Tgt Ion	Ratio	Lower	Upper
212	100		
106	7.7	6.0	9.0
104	4.4	3.5	5.3



#28
Fluoranthene
Concen: 0.372 ng
RT: 19.001 min Scan# 1962
Delta R.T. -0.002 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion	Ratio	Lower	Upper
202	100		
101	6.5	5.2	7.8
203	17.2	13.8	20.8

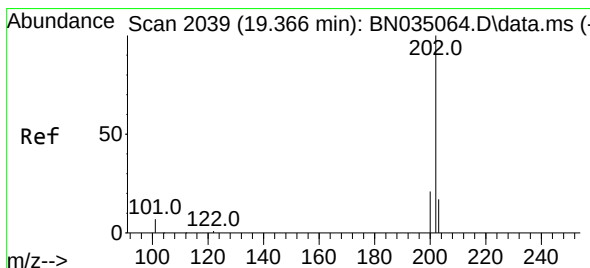
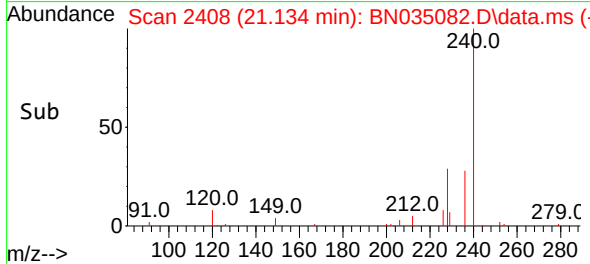
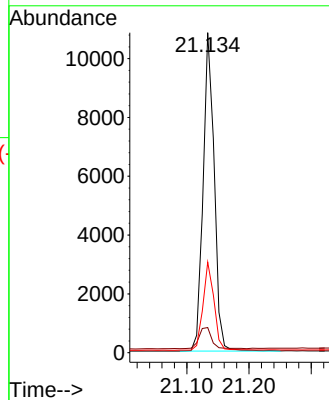
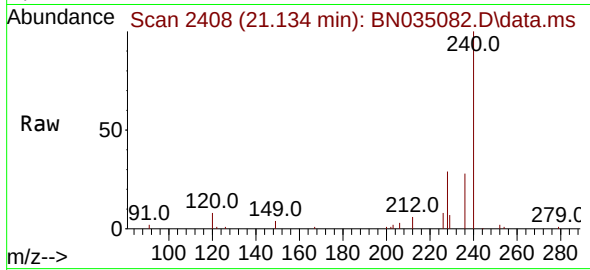




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.134 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

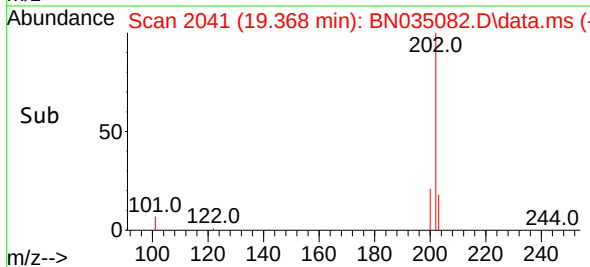
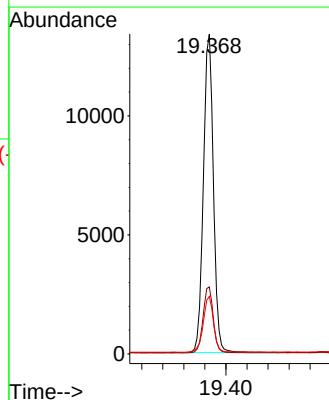
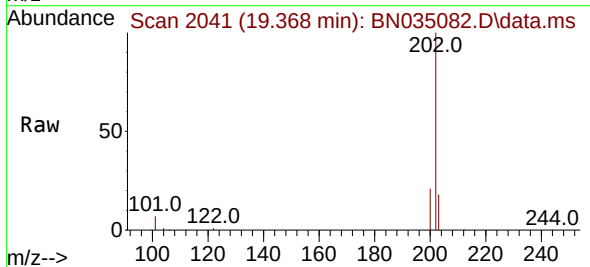
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

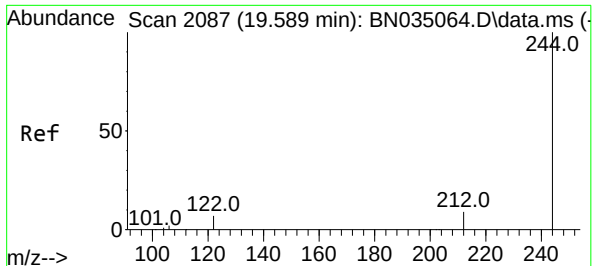
Tgt Ion:240 Resp: 13485
Ion Ratio Lower Upper
240 100
120 7.9 3.8 5.6#
236 28.3 22.2 33.2



#30
Pyrene
Concen: 0.394 ng
RT: 19.368 min Scan# 2041
Delta R.T. 0.002 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:202 Resp: 17691
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 17.9 14.2 21.4

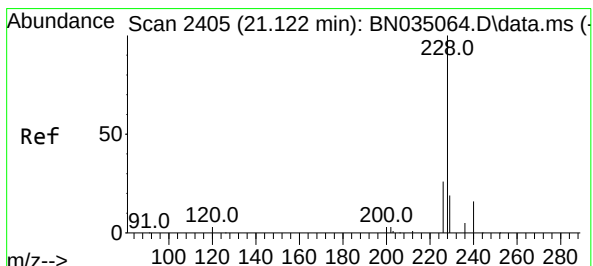
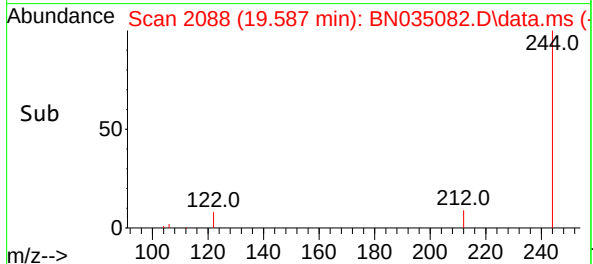
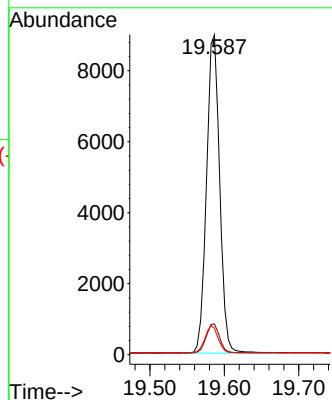
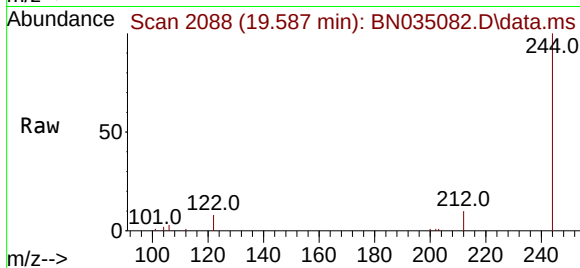




#31
Terphenyl-d14
Concen: 0.387 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

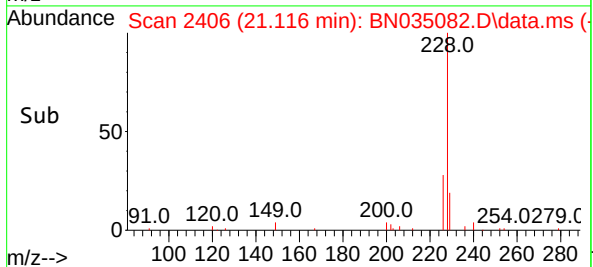
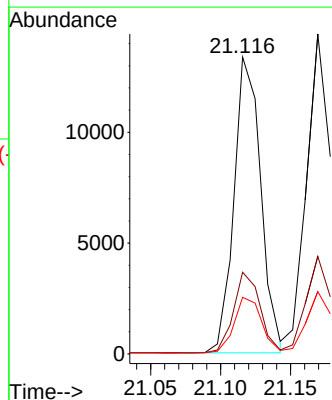
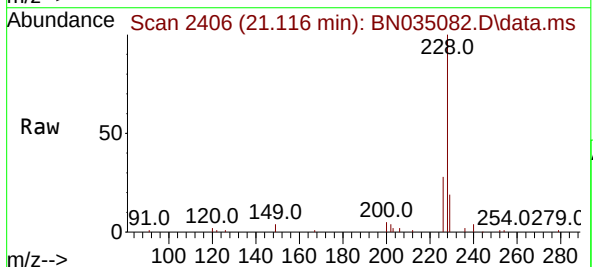
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

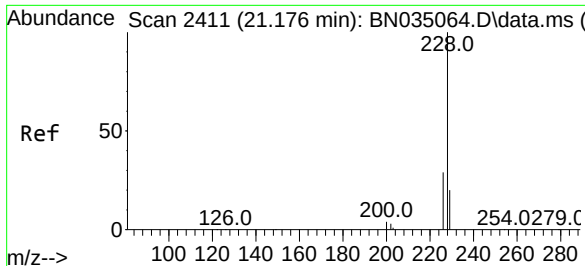
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.6	11.4
122	8.3	6.1	9.1



#32
Benzo(a)anthracene
Concen: 0.378 ng
RT: 21.116 min Scan# 2406
Delta R.T. -0.007 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.6	21.4	32.0
229	19.1	15.7	23.5





#33

Chrysene

Concen: 0.389 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035082.D

Acq: 14 Nov 2024 10:12

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

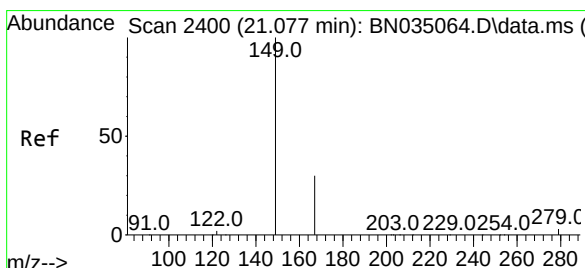
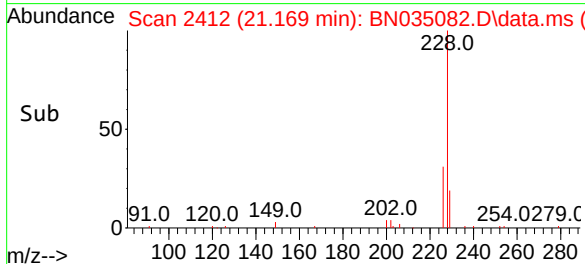
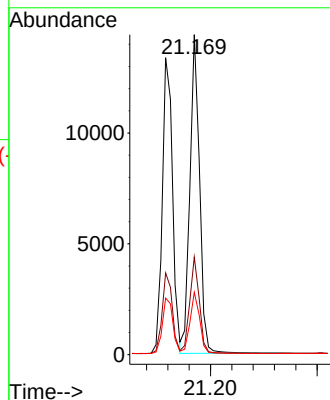
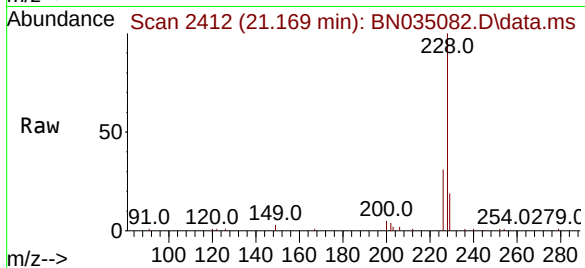
Tgt Ion:228 Resp: 18097

Ion Ratio Lower Upper

228 100

226 30.5 23.7 35.5

229 19.5 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.318 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035082.D

Acq: 14 Nov 2024 10:12

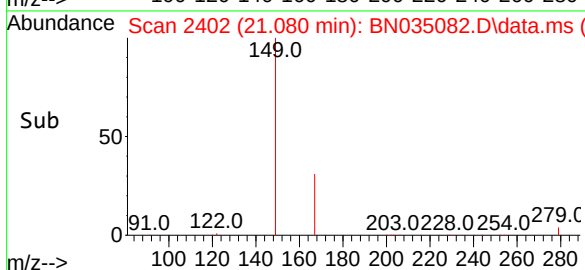
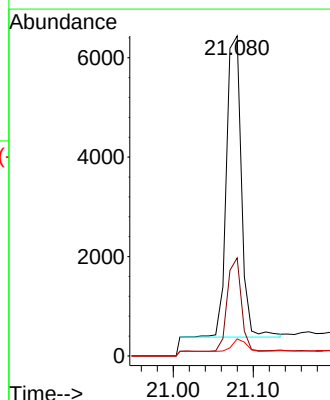
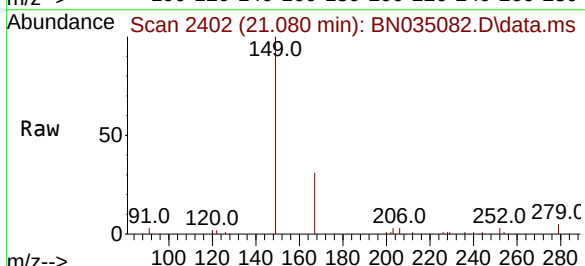
Tgt Ion:149 Resp: 7841

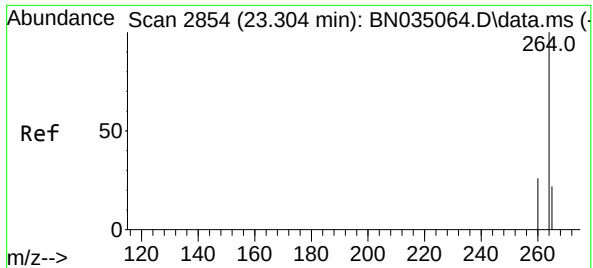
Ion Ratio Lower Upper

149 100

167 29.2 23.2 34.8

279 4.0 3.2 4.8

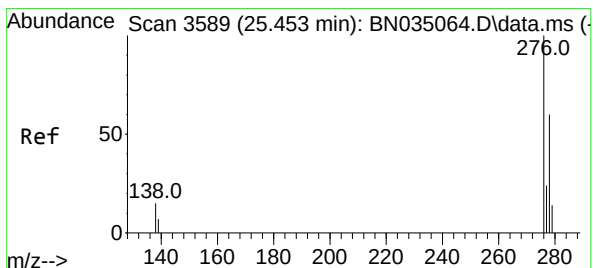
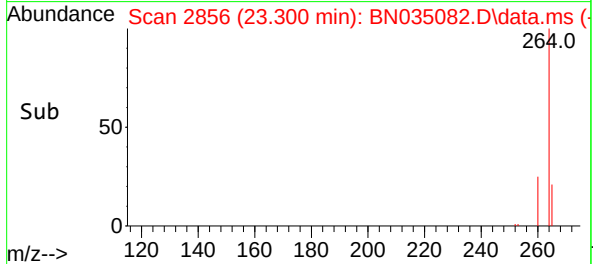
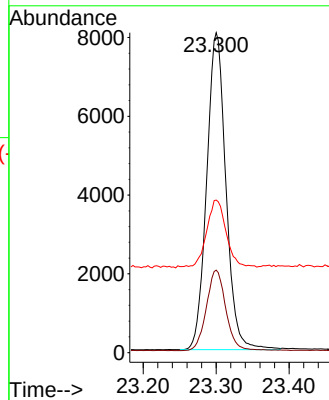
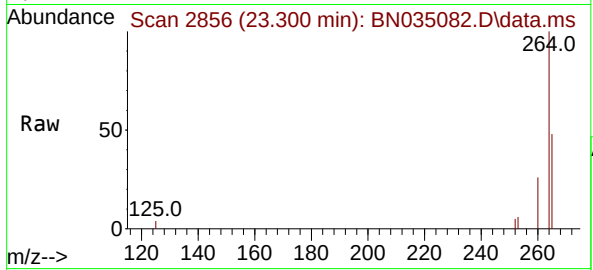




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.300 min Scan# 21
Delta R.T. -0.004 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

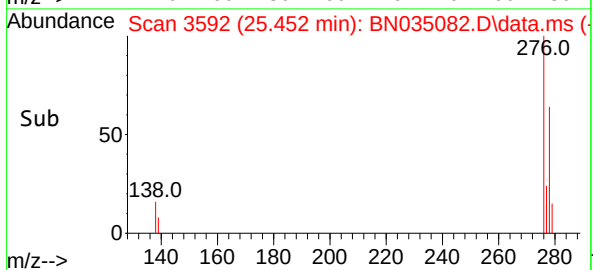
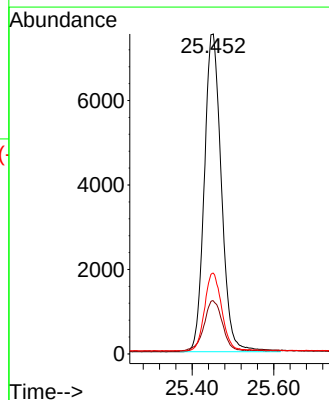
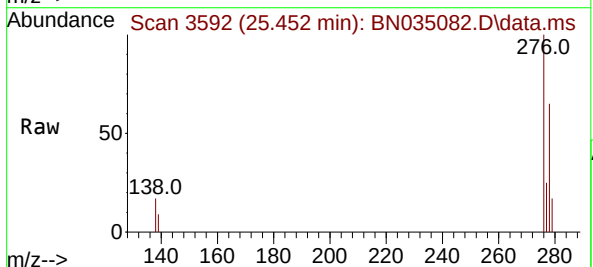
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

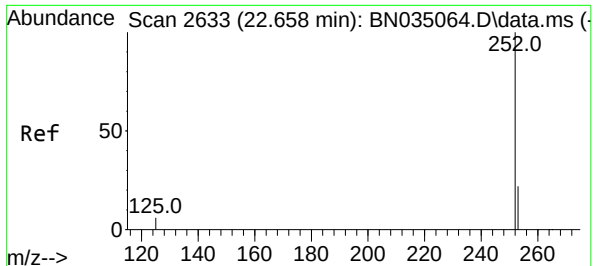
Tgt Ion:264 Resp: 14730
Ion Ratio Lower Upper
264 100
260 25.8 20.9 31.3
265 47.7 35.4 53.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.372 ng
RT: 25.452 min Scan# 3592
Delta R.T. -0.001 min
Lab File: BN035082.D
Acq: 14 Nov 2024 10:12

Tgt Ion:276 Resp: 21866
Ion Ratio Lower Upper
276 100
138 17.1 13.0 19.4
277 24.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.385 ng

RT: 22.657 min Scan# 2636

Delta R.T. -0.001 min

Lab File: BN035082.D

Acq: 14 Nov 2024 10:12

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

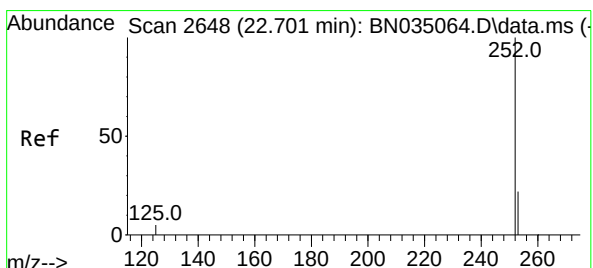
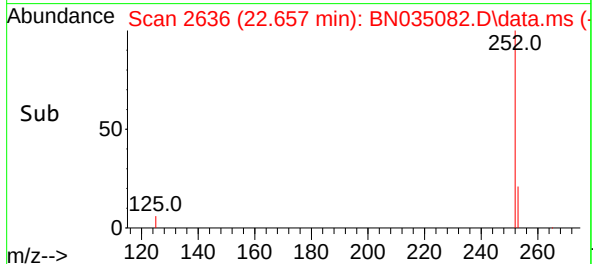
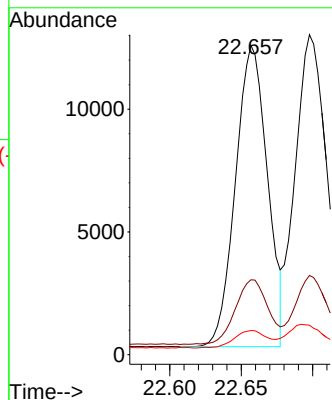
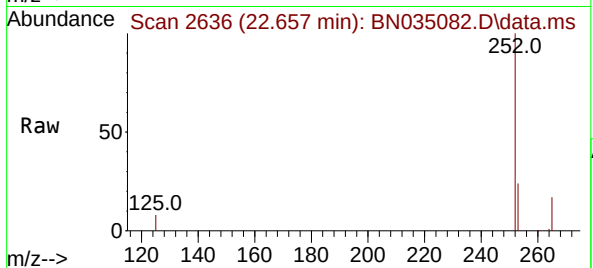
Tgt Ion:252 Resp: 19067

Ion Ratio Lower Upper

252 100

253 24.2 19.3 28.9

125 7.8 6.2 9.2



#38

Benzo(k)fluoranthene

Concen: 0.402 ng

RT: 22.698 min Scan# 2650

Delta R.T. -0.004 min

Lab File: BN035082.D

Acq: 14 Nov 2024 10:12

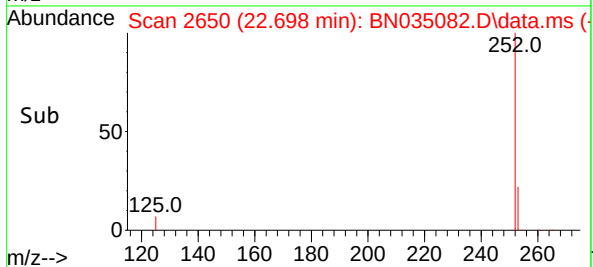
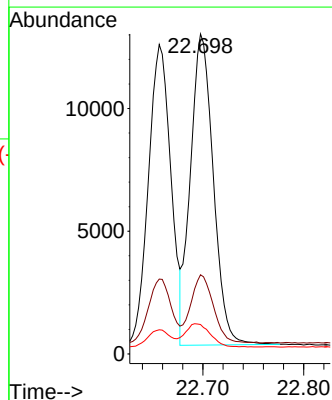
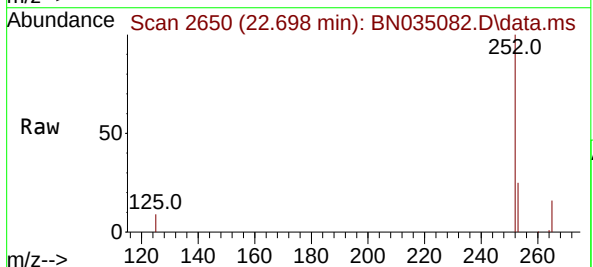
Tgt Ion:252 Resp: 19945

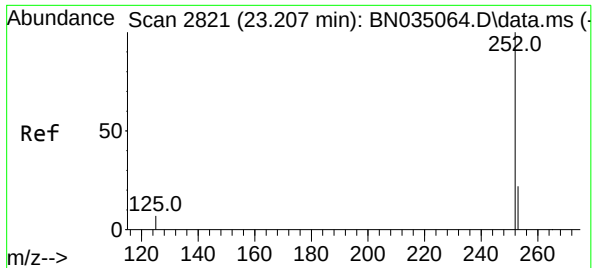
Ion Ratio Lower Upper

252 100

253 24.7 19.5 29.3

125 9.2 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.379 ng

RT: 23.206 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035082.D

Acq: 14 Nov 2024 10:12

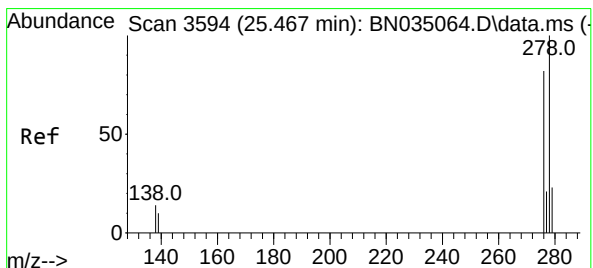
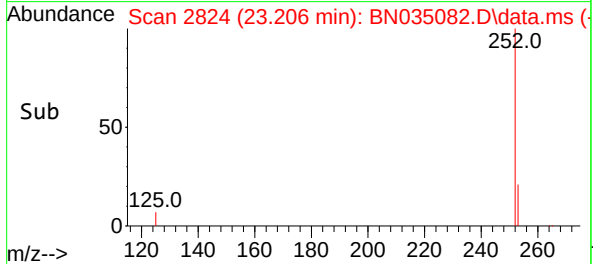
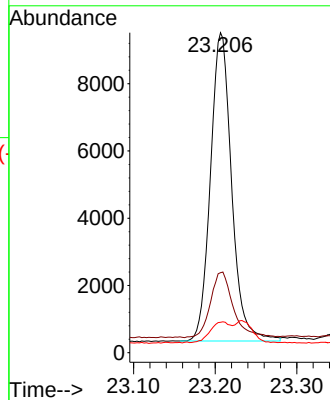
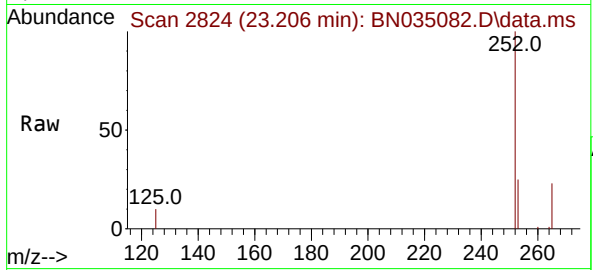
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:	252	Resp:	16523
Ion Ratio	Lower	Upper	
252	100		
253	25.0	20.1	30.1
125	9.5	7.5	11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.372 ng

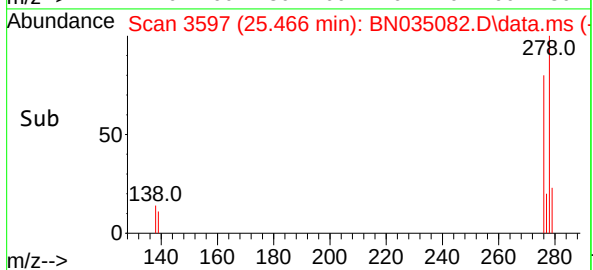
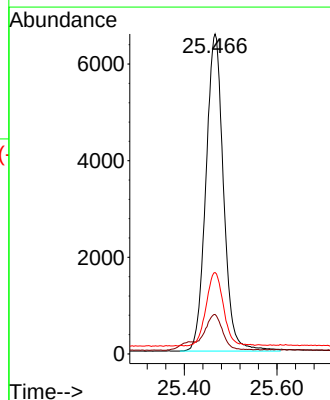
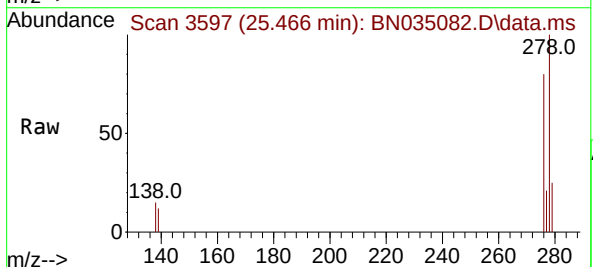
RT: 25.466 min Scan# 3597

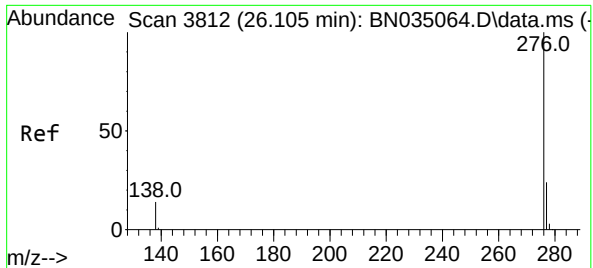
Delta R.T. -0.001 min

Lab File: BN035082.D

Acq: 14 Nov 2024 10:12

Tgt Ion:	278	Resp:	17299
Ion Ratio	Lower	Upper	
278	100		
139	12.4	9.3	13.9
279	25.5	19.7	29.5





#41

Benzo(g,h,i)perylene

Concen: 0.359 ng

RT: 26.101 min Scan# 3814

Delta R.T. -0.004 min

Lab File: BN035082.D

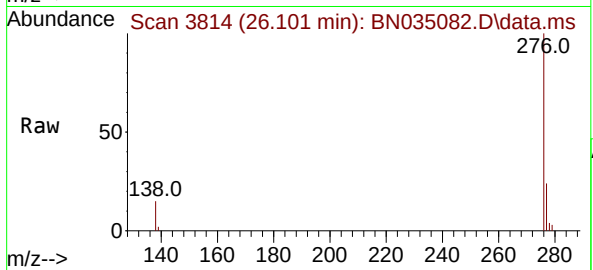
Acq: 14 Nov 2024 10:12

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



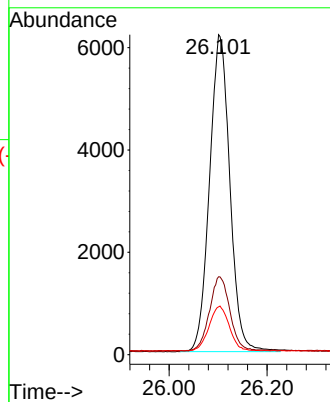
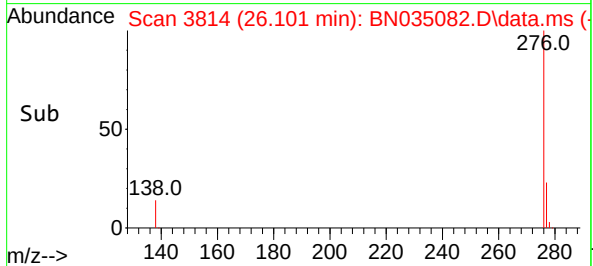
Tgt Ion:276 Resp: 17799

Ion Ratio Lower Upper

276 100

277 24.4 19.9 29.9

138 14.9 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035082.D
Acq On : 14 Nov 2024 10:12
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 14 11:23:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
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	91	0.00
2	1,4-Dioxane	0.363	0.354	2.5	96	0.00
3	n-Nitrosodimethylamine	0.339	0.299	11.8	84	0.00
4 S	2-Fluorophenol	1.015	0.916	9.8	88	0.00
5 S	Phenol-d6	1.273	1.184	7.0	93	0.00
6	bis(2-Chloroethyl)ether	0.956	0.884	7.5	90	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	93	0.00
8 S	Nitrobenzene-d5	0.348	0.308	11.5	89	-0.01
9	Naphthalene	1.044	0.964	7.7	92	0.00
10	Hexachlorobutadiene	0.306	0.287	6.2	91	0.00
11 SURR	2-Methylnaphthalene-d10	0.713	0.656	8.0	92	0.00
12	2-Methylnaphthalene	0.770	0.709	7.9	92	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	93	0.00
14 S	2,4,6-Tribromophenol	0.289	0.230	20.4	89	0.00
15 S	2-Fluorobiphenyl	1.624	1.452	10.6	93	0.00
16	Acenaphthylene	1.709	1.480	13.4	93	0.00
17	Acenaphthene	1.120	0.995	11.2	93	0.00
18	Fluorene	1.648	1.459	11.5	93	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	95	0.00
20	4,6-Dinitro-2-methylphenol	0.083	0.070	15.7	92	0.00
21	4-Bromophenyl-phenylether	0.255	0.240	5.9	92	0.00
22	Hexachlorobenzene	0.264	0.250	5.3	94	0.00
23	Atrazine	0.229	0.195	14.8	85	0.00
24	Pentachlorophenol	0.124	0.104	16.1	95	0.00
25	Phenanthrene	1.053	1.000	5.0	94	0.00
26	Anthracene	0.967	0.893	7.7	92	0.00
27 SURR	Fluoranthene-d10	1.225	1.132	7.6	92	0.00
28	Fluoranthene	1.448	1.348	6.9	92	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	90	0.00
30	Pyrene	1.332	1.312	1.5	92	0.00
31 S	Terphenyl-d14	0.839	0.812	3.2	90	0.00
32	Benzo(a)anthracene	1.393	1.316	5.5	89	0.00
33	Chrysene	1.380	1.342	2.8	91	0.00
34	Bis(2-ethylhexyl)phthalate	0.731	0.581	20.5	81	0.00
35 I	Perylene-d12	1.000	1.000	0.0	86	0.00
36	Indeno(1,2,3-cd)pyrene	1.596	1.484	7.0	84	0.00
37	Benzo(b)fluoranthene	1.346	1.294	3.9	87	0.00
38	Benzo(k)fluoranthene	1.347	1.354	-0.5	91	0.00
39 C	Benzo(a)pyrene	1.184	1.122	5.2	86	0.00
40	Dibenzo(a,h)anthracene	1.264	1.174	7.1	84	0.00
41	Benzo(g,h,i)perylene	1.345	1.208	10.2	81	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035082.D
Acq On : 14 Nov 2024 10:12
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 14 11:23:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
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	91	0.00
2	1,4-Dioxane	0.400	0.390	2.5	96	0.00
3	n-Nitrosodimethylamine	0.400	0.354	11.5	84	0.00
4 S	2-Fluorophenol	0.400	0.361	9.8	88	0.00
5 S	Phenol-d6	0.400	0.372	7.0	93	0.00
6	bis(2-Chloroethyl)ether	0.400	0.370	7.5	90	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	93	0.00
8 S	Nitrobenzene-d5	0.400	0.354	11.5	89	-0.01
9	Naphthalene	0.400	0.369	7.8	92	0.00
10	Hexachlorobutadiene	0.400	0.375	6.3	91	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.368	8.0	92	0.00
12	2-Methylnaphthalene	0.400	0.368	8.0	92	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	93	0.00
14 S	2,4,6-Tribromophenol	0.400	0.318	20.5	89	0.00
15 S	2-Fluorobiphenyl	0.400	0.358	10.5	93	0.00
16	Acenaphthylene	0.400	0.346	13.5	93	0.00
17	Acenaphthene	0.400	0.355	11.3	93	0.00
18	Fluorene	0.400	0.354	11.5	93	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	95	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.338	15.5	92	0.00
21	4-Bromophenyl-phenylether	0.400	0.376	6.0	92	0.00
22	Hexachlorobenzene	0.400	0.378	5.5	94	0.00
23	Atrazine	0.400	0.341	14.8	85	0.00
24	Pentachlorophenol	0.400	0.337	15.8	95	0.00
25	Phenanthrene	0.400	0.380	5.0	94	0.00
26	Anthracene	0.400	0.370	7.5	92	0.00
27 SURR	Fluoranthene-d10	0.400	0.369	7.8	92	0.00
28	Fluoranthene	0.400	0.372	7.0	92	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	90	0.00
30	Pyrene	0.400	0.394	1.5	92	0.00
31 S	Terphenyl-d14	0.400	0.387	3.3	90	0.00
32	Benzo(a)anthracene	0.400	0.378	5.5	89	0.00
33	Chrysene	0.400	0.389	2.8	91	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.318	20.5	81	0.00
35 I	Perylene-d12	0.400	0.400	0.0	86	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.372	7.0	84	0.00
37	Benzo(b)fluoranthene	0.400	0.385	3.8	87	0.00
38	Benzo(k)fluoranthene	0.400	0.402	-0.5	91	0.00
39 C	Benzo(a)pyrene	0.400	0.379	5.3	86	0.00
40	Dibenzo(a,h)anthracene	0.400	0.372	7.0	84	0.00
41	Benzo(g,h,i)perylene	0.400	0.359	10.3	81	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.: P4773 SAS No.: P4773 SDG No.: P4773

Instrument ID: BNA_N Calibration Date/Time: 11/14/2024 19:35

Lab File ID: BN035095.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:40 16:15

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.713	0.673		-5.6	50.0
Fluoranthene-d10	1.225	1.085		-11.4	50.0
2-Fluorophenol	1.015	0.911		-10.2	50.0
Phenol-d6	1.273	1.198		-5.9	50.0
Nitrobenzene-d5	0.348	0.309		-11.2	50.0
2-Fluorobiphenyl	1.624	1.474		-9.2	50.0
2,4,6-Tribromophenol	0.289	0.227		-21.5	50.0
Terphenyl-d14	0.839	0.833		-0.7	50.0
1,4-Dioxane	0.363	0.321		-11.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
 Data File : BN035095.D
 Acq On : 14 Nov 2024 19:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Nov 15 01:08:16 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 17:18:14 2024
 Response via : Initial Calibration

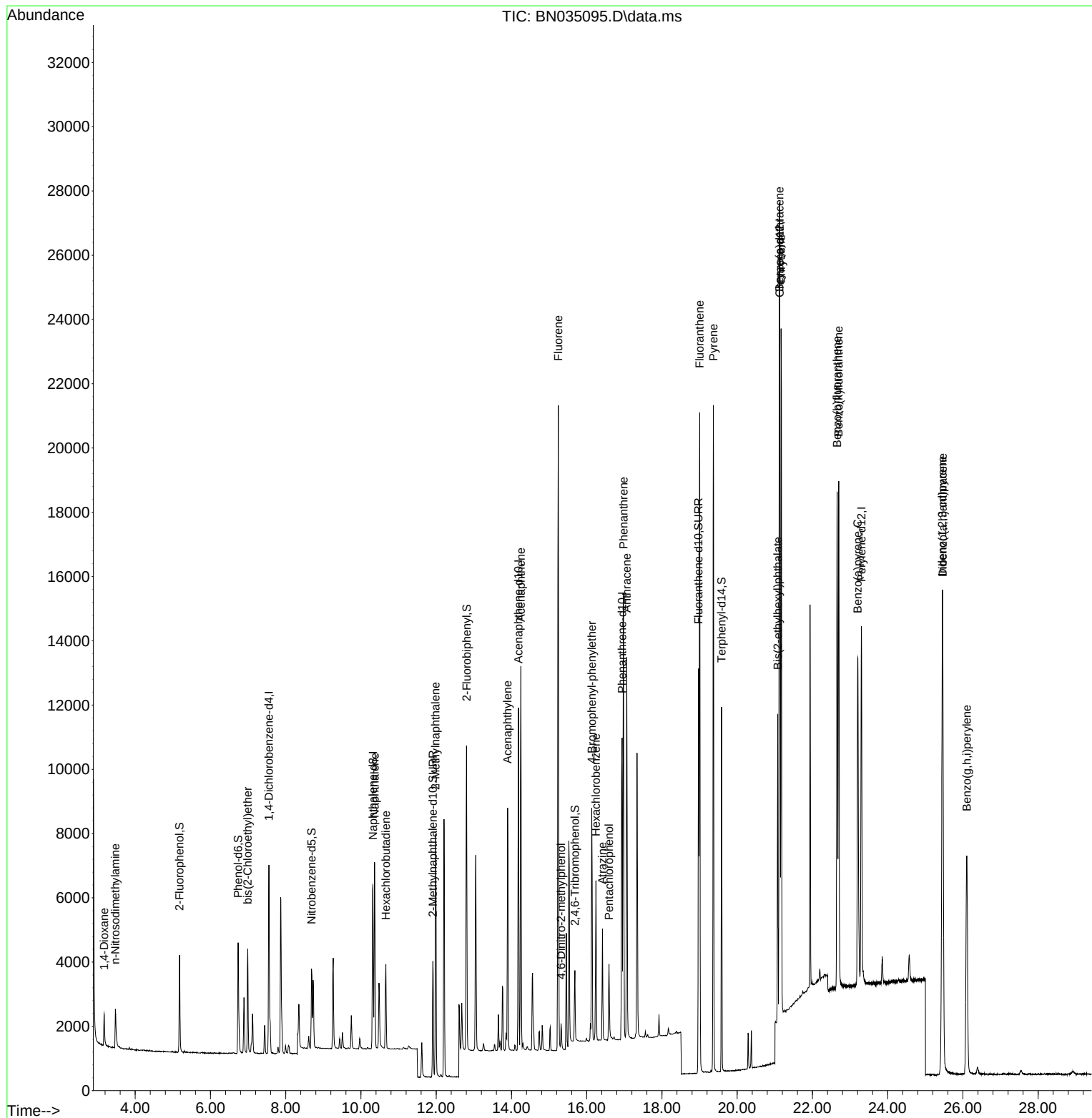
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2818	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	7305	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	5712	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	13926	0.400	ng	0.00
29) Chrysene-d12	21.131	240	13496	0.400	ng	# 0.00
35) Perylene-d12	23.301	264	13483	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2568	0.359	ng	0.00
5) Phenol-d6	6.737	99	3375	0.376	ng	0.00
8) Nitrobenzene-d5	8.685	82	2256	0.355	ng	-0.01
11) 2-Methylnaphthalene-d10	11.912	152	4913	0.377	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	1297	0.315	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	8422	0.363	ng	0.00
27) Fluoranthene-d10	18.971	212	15107	0.354	ng	0.00
31) Terphenyl-d14	19.584	244	11237	0.397	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.176	88	905	0.354	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.473	42	828	0.347	ng	# 99
6) bis(2-Chloroethyl)ether	6.990	93	2498	0.371	ng	98
9) Naphthalene	10.361	128	7144	0.375	ng	100
10) Hexachlorobutadiene	10.660	225	2129	0.381	ng	# 99
12) 2-Methylnaphthalene	11.984	142	5357	0.381	ng	99
16) Acenaphthylene	13.898	152	8520	0.349	ng	99
17) Acenaphthene	14.250	154	5791	0.362	ng	99
18) Fluorene	15.245	166	8299	0.353	ng	98
20) 4,6-Dinitro-2-methylph...	15.319	198	786	0.271	ng	# 85
21) 4-Bromophenyl-phenylether	16.132	248	3330	0.375	ng	# 72
22) Hexachlorobenzene	16.244	284	3574	0.388	ng	100
23) Atrazine	16.418	200	2632	0.331	ng	96
24) Pentachlorophenol	16.592	266	1253	0.291	ng	97
25) Phenanthrene	16.977	178	13777	0.376	ng	99
26) Anthracene	17.063	178	12348	0.367	ng	99
28) Fluoranthene	19.003	202	18018	0.358	ng	100
30) Pyrene	19.366	202	18421	0.410	ng	100
32) Benzo(a)anthracene	21.122	228	17749	0.378	ng	99
33) Chrysene	21.167	228	17938	0.385	ng	98
34) Bis(2-ethylhexyl)phtha...	21.077	149	7837	0.318	ng	99
36) Indeno(1,2,3-cd)pyrene	25.449	276	18051	0.336	ng	98
37) Benzo(b)fluoranthene	22.657	252	18441	0.407	ng	100
38) Benzo(k)fluoranthene	22.698	252	18803	0.414	ng	99
39) Benzo(a)pyrene	23.204	252	15319	0.384	ng	99
40) Dibenzo(a,h)anthracene	25.464	278	14439	0.339	ng	97
41) Benzo(g,h,i)perylene	26.101	276	14512	0.320	ng	99

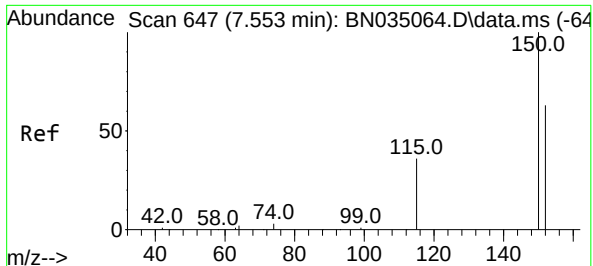
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035095.D
Acq On : 14 Nov 2024 19:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Nov 15 01:08:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

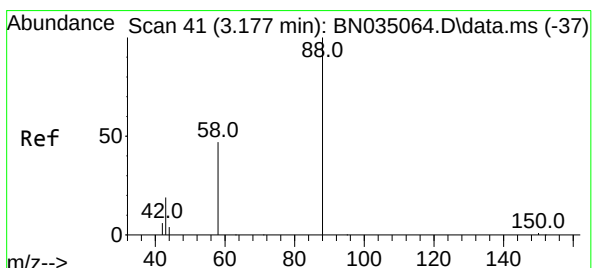
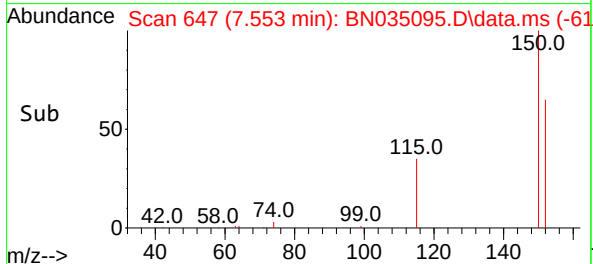
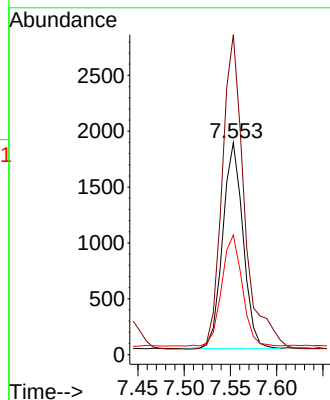
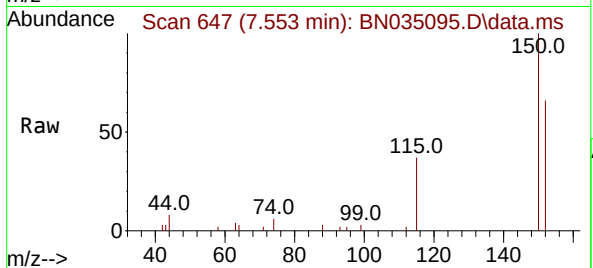




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

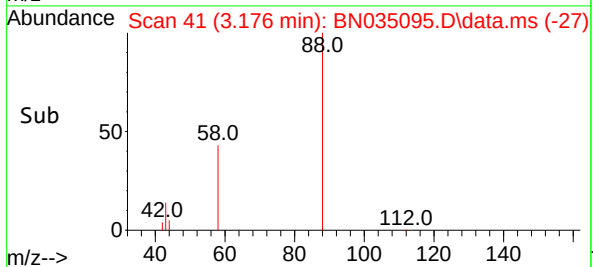
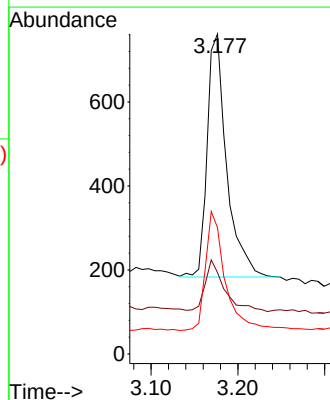
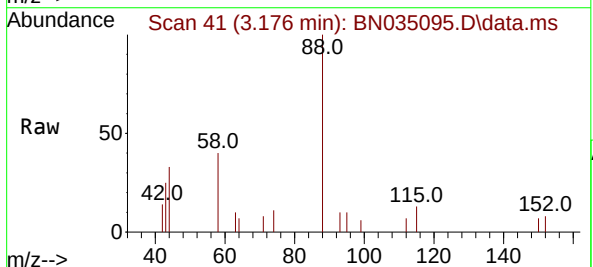
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

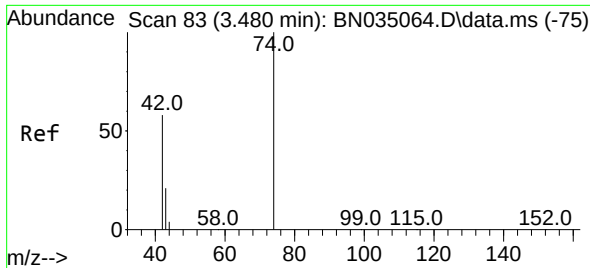
Tgt Ion:152 Resp: 2818
Ion Ratio Lower Upper
152 100
150 151.0 124.5 186.7
115 56.5 47.8 71.6



#2
1,4-Dioxane
Concen: 0.354 ng
RT: 3.176 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion: 88 Resp: 905
Ion Ratio Lower Upper
88 100
43 21.1 16.9 25.3
58 49.1 39.0 58.4

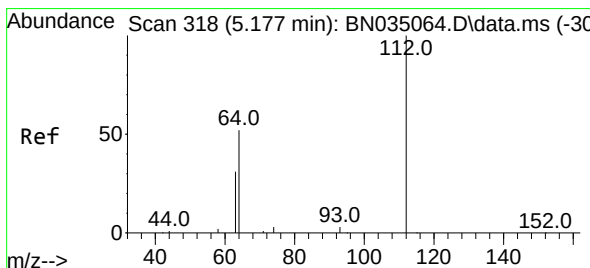
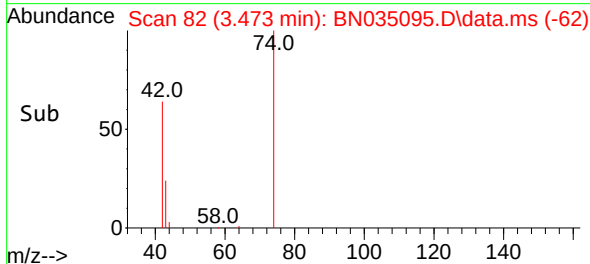
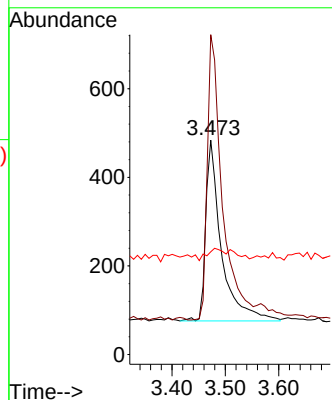
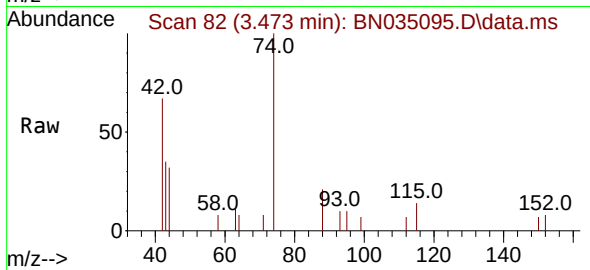




#3
n-Nitrosodimethylamine
Concen: 0.347 ng
RT: 3.473 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

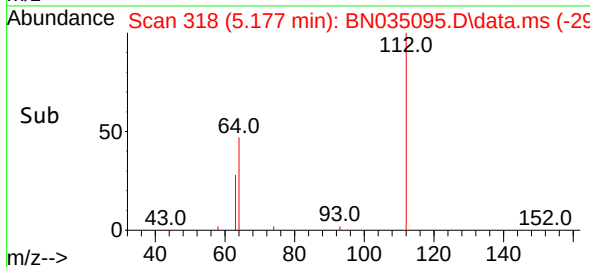
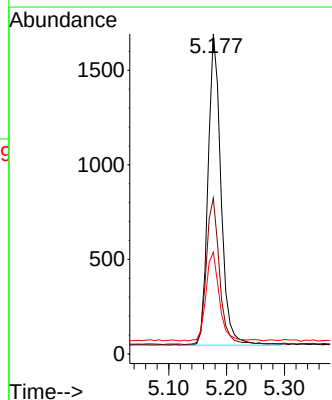
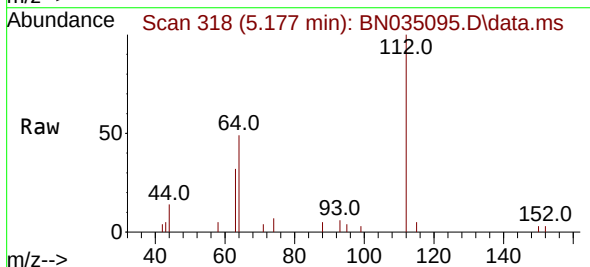
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

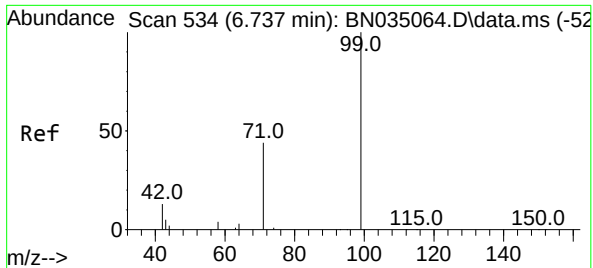
Tgt Ion: 42 Resp: 828
Ion Ratio Lower Upper
42 100
74 152.3 120.8 181.2
44 7.1 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.359 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion: 112 Resp: 2568
Ion Ratio Lower Upper
112 100
64 48.1 39.7 59.5
63 29.3 23.0 34.4

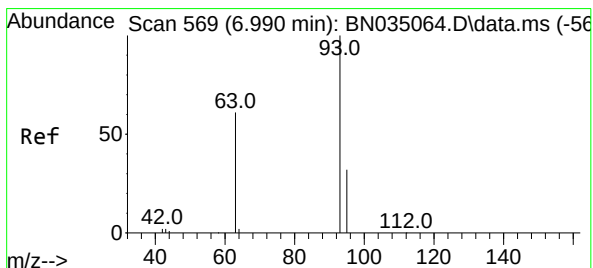
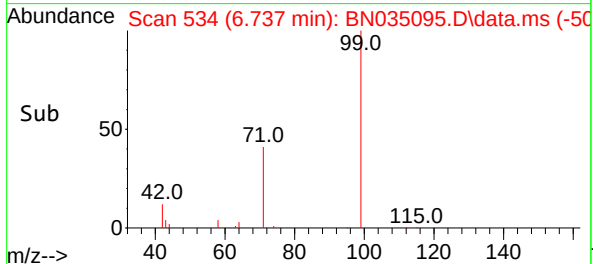
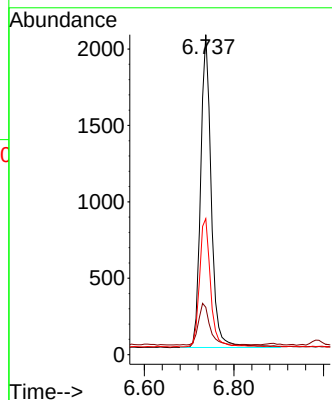
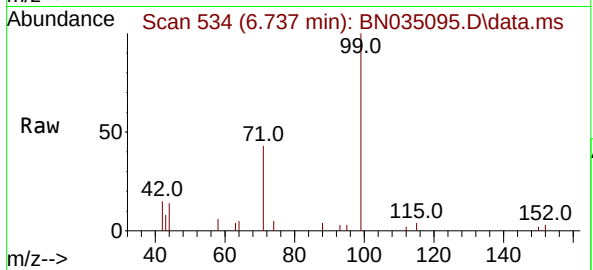




#5
Phenol-d6
Concen: 0.376 ng
RT: 6.737 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

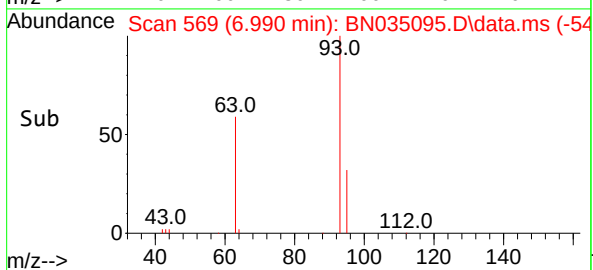
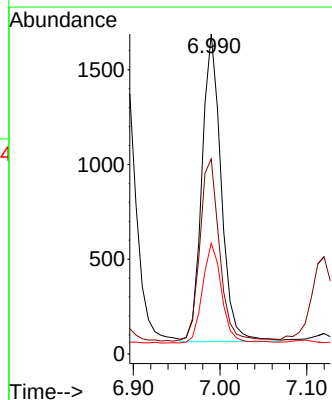
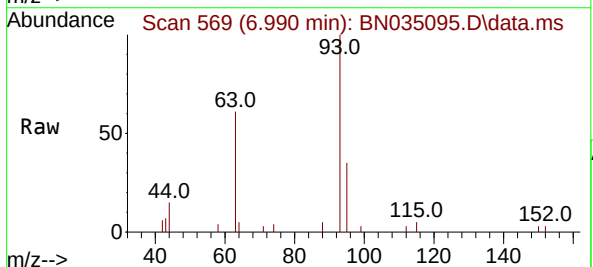
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

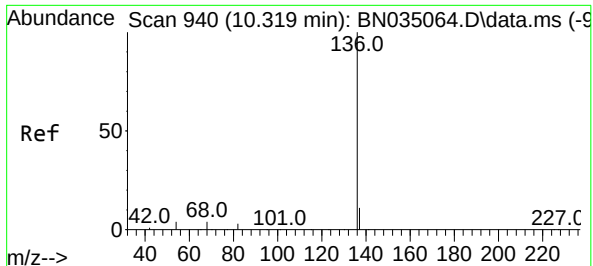
Tgt Ion: 99 Resp: 3375
Ion Ratio Lower Upper
99 100
42 14.0 11.4 17.0
71 42.4 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.371 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion: 93 Resp: 2498
Ion Ratio Lower Upper
93 100
63 61.1 47.4 71.2
95 32.3 26.2 39.4

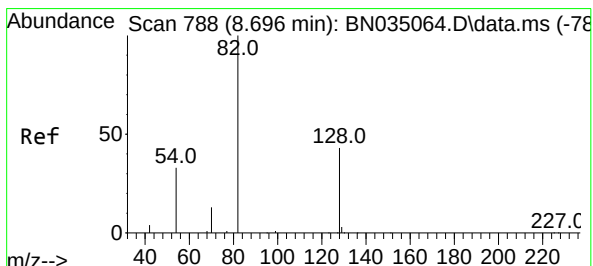
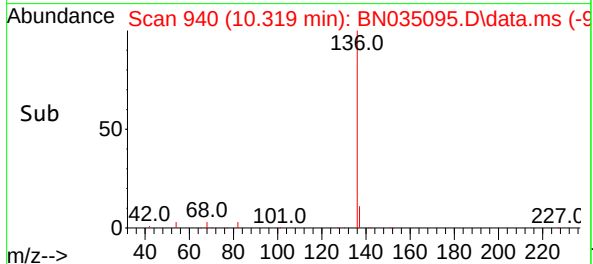
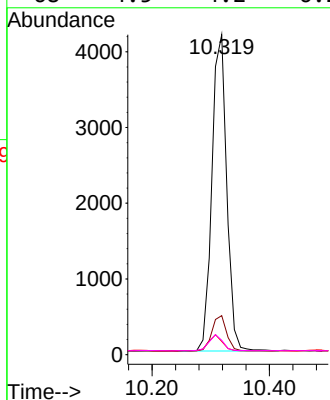
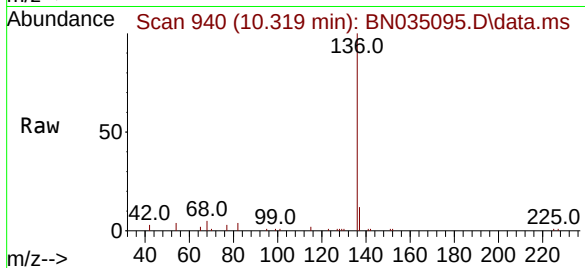




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

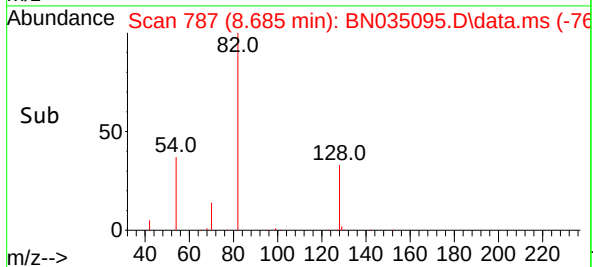
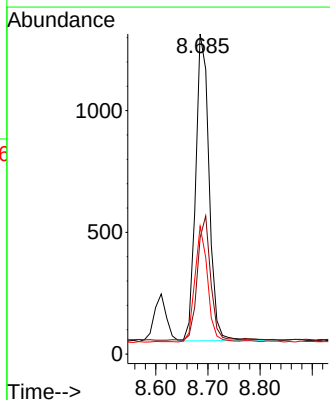
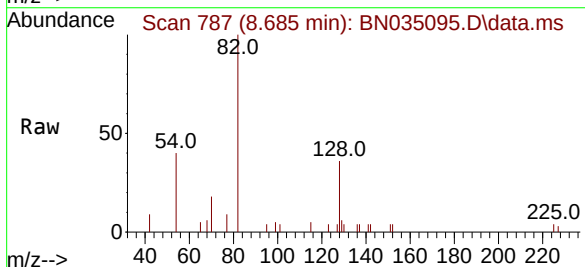
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

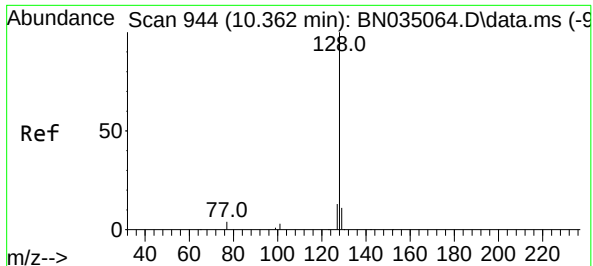
Tgt Ion:	136	Resp:	7305
Ion Ratio	Lower	Upper	
136	100		
137	12.2	9.8	14.8
54	4.1	4.0	6.0
68	4.5	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.355 ng
RT: 8.685 min Scan# 787
Delta R.T. -0.011 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion:	82	Resp:	2256
Ion Ratio	Lower	Upper	
82	100		
128	36.3	36.5	54.7#
54	39.9	28.7	43.1

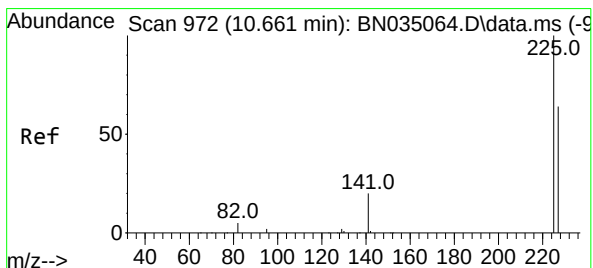
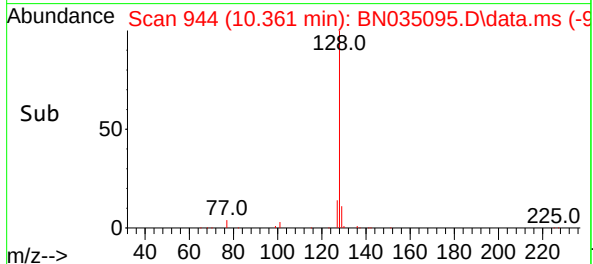
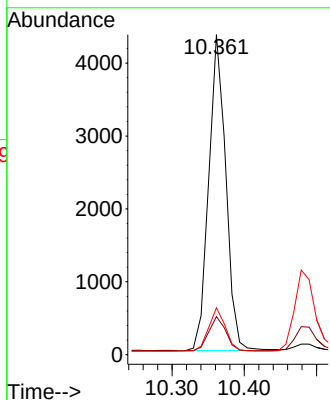
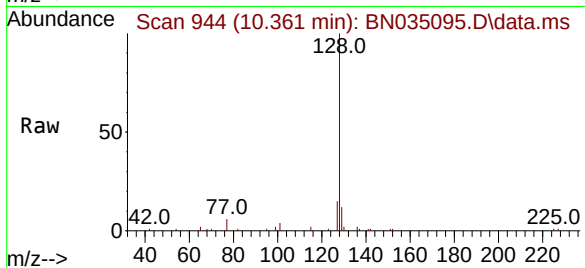




#9
Naphthalene
Concen: 0.375 ng
RT: 10.361 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

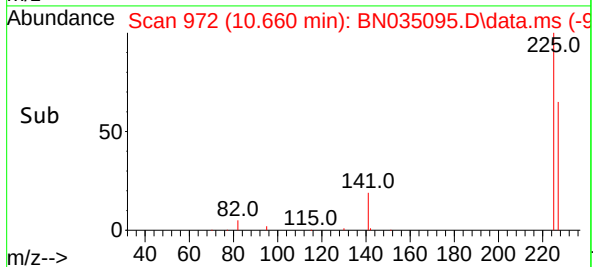
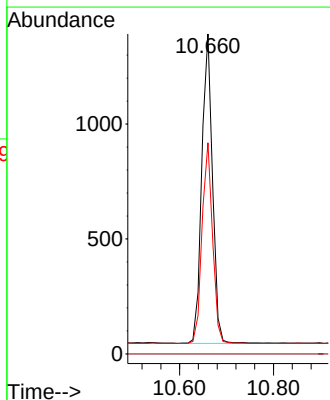
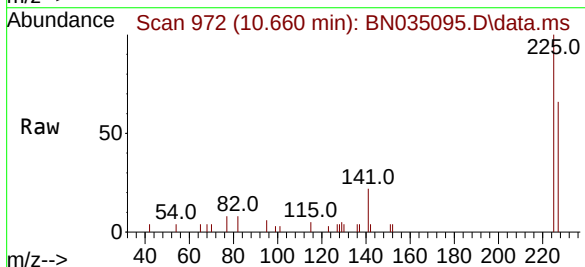
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

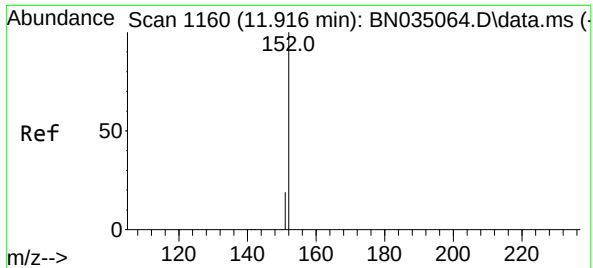
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.6	14.4
127	14.6	11.6	17.4



#10
Hexachlorobutadiene
Concen: 0.381 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.5	77.3

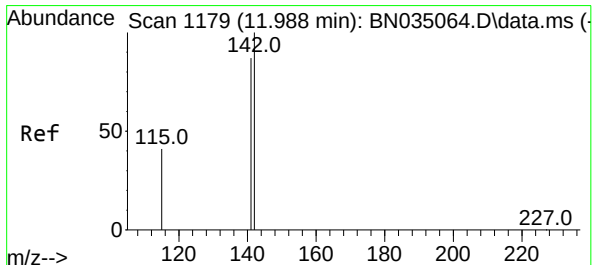
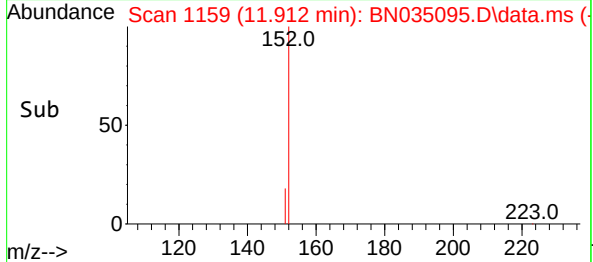
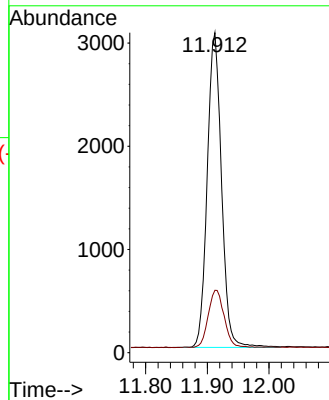
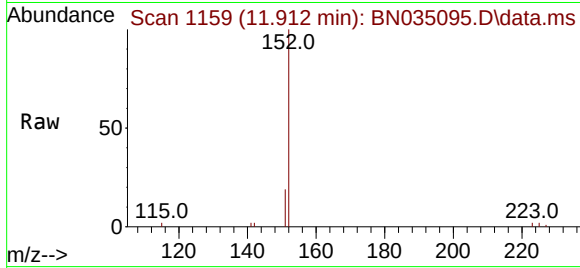




#11
2-Methylnaphthalene-d10
Concen: 0.377 ng
RT: 11.912 min Scan# 1160
Delta R.T. -0.004 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

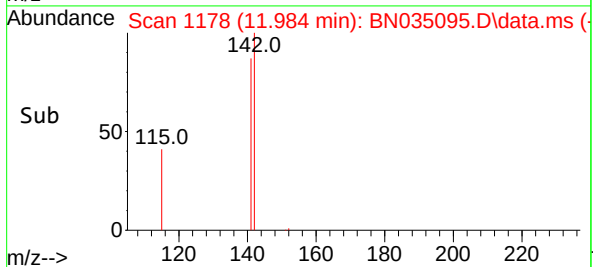
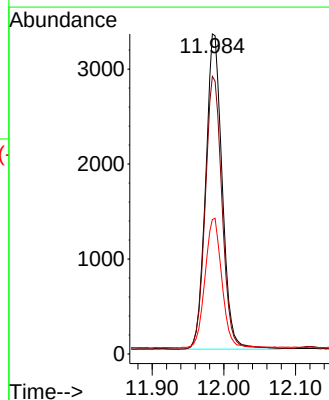
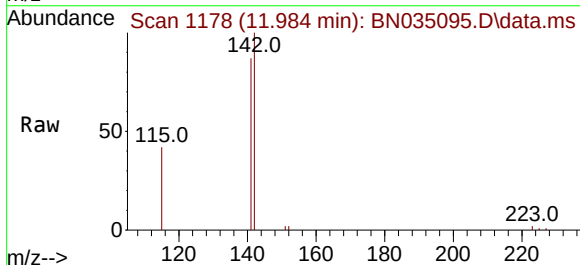
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

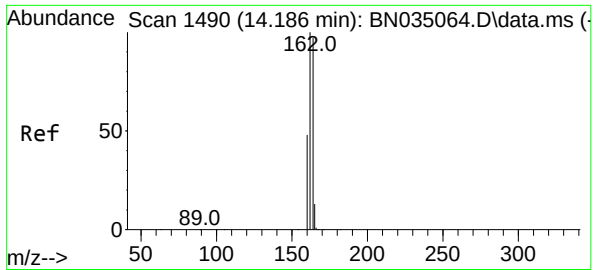
Tgt Ion:152 Resp: 4913
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4



#12
2-Methylnaphthalene
Concen: 0.381 ng
RT: 11.984 min Scan# 1178
Delta R.T. -0.004 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion:142 Resp: 5357
Ion Ratio Lower Upper
142 100
141 86.7 70.1 105.1
115 42.0 34.4 51.6

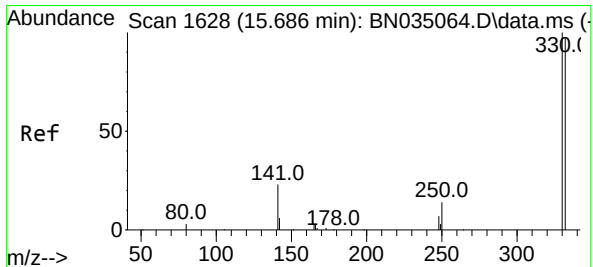
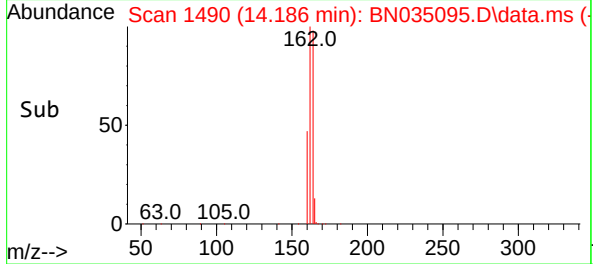
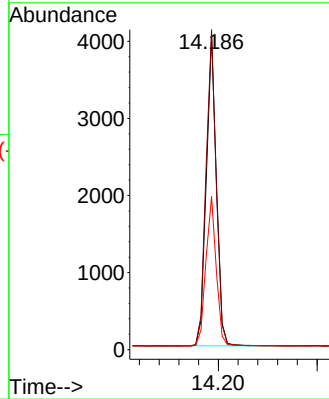
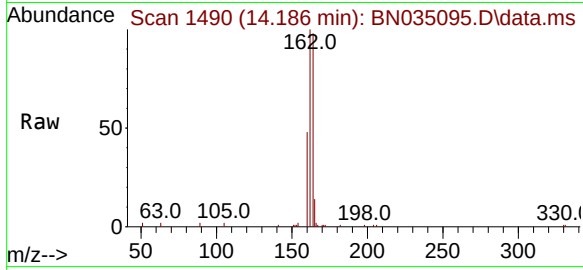




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

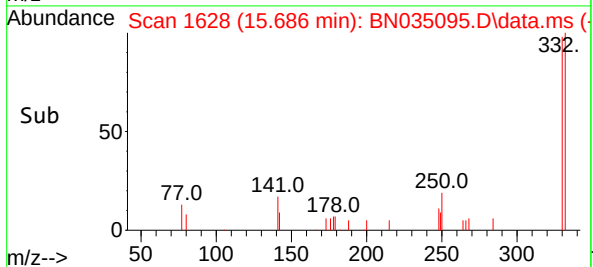
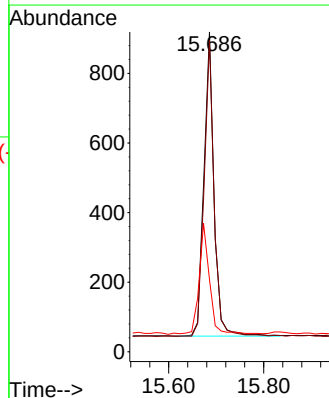
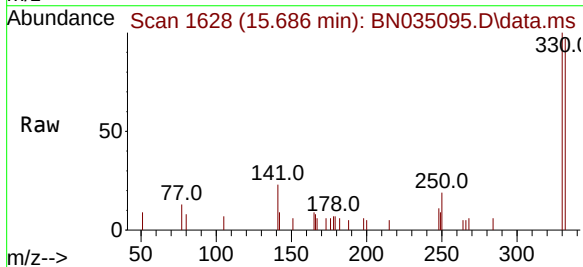
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

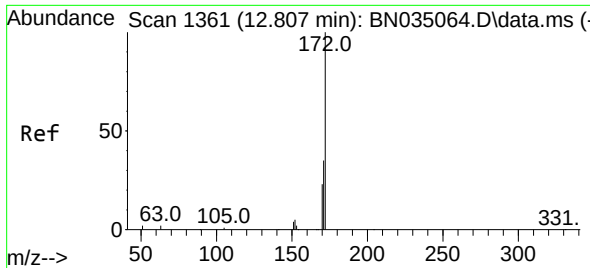
Tgt Ion:164 Resp: 5712
Ion Ratio Lower Upper
164 100
162 101.7 82.2 123.2
160 48.7 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.315 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion:330 Resp: 1297
Ion Ratio Lower Upper
330 100
332 95.5 76.9 115.3
141 38.1 29.6 44.4

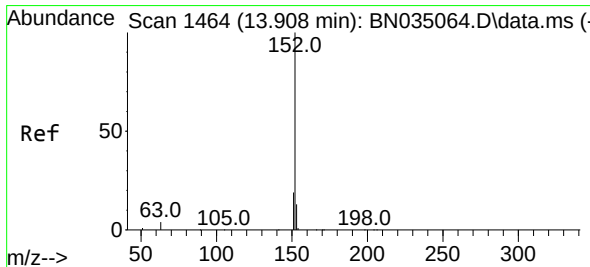
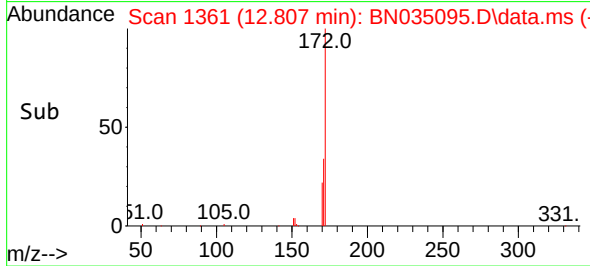
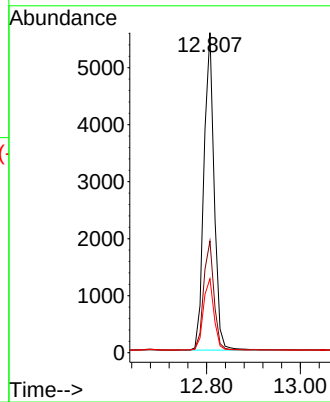
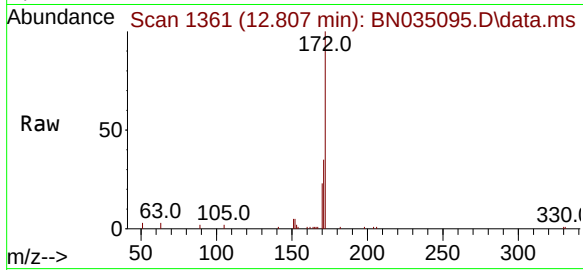




#15
2-Fluorobiphenyl
Concen: 0.363 ng
RT: 12.807 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

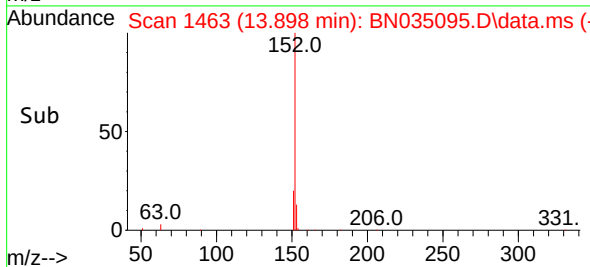
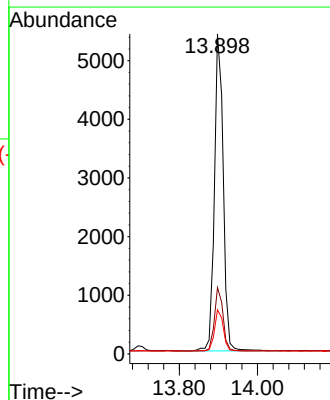
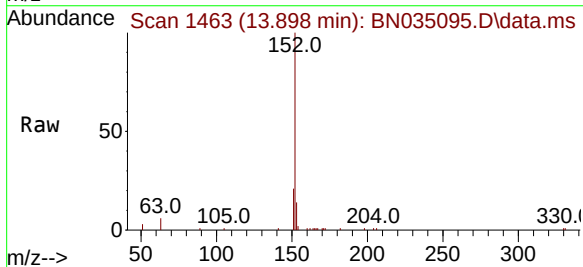
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

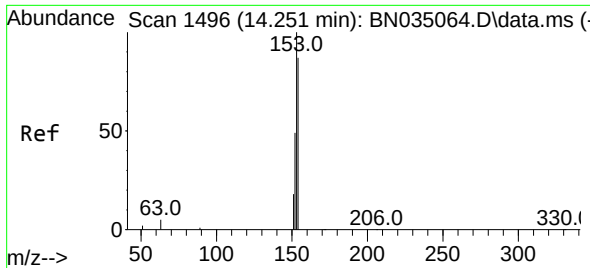
Tgt Ion:	172	Resp:	8422
Ion Ratio	Lower	Upper	
172	100		
171	34.9	28.2	42.4
170	23.1	19.0	28.6



#16
Acenaphthylene
Concen: 0.349 ng
RT: 13.898 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion:	152	Resp:	8520
Ion Ratio	Lower	Upper	
152	100		
151	19.4	15.8	23.8
153	13.1	10.2	15.4

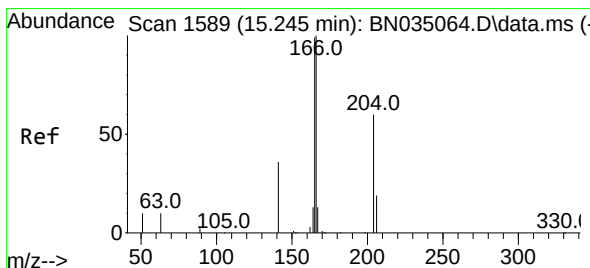
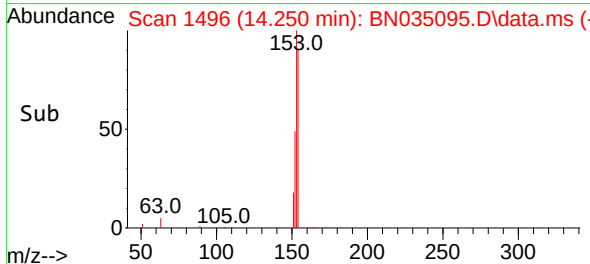
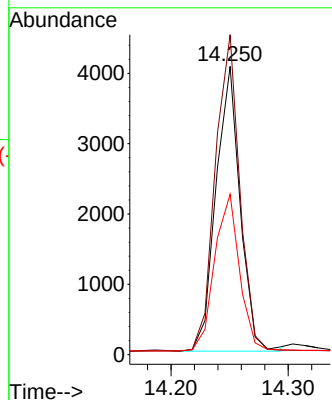
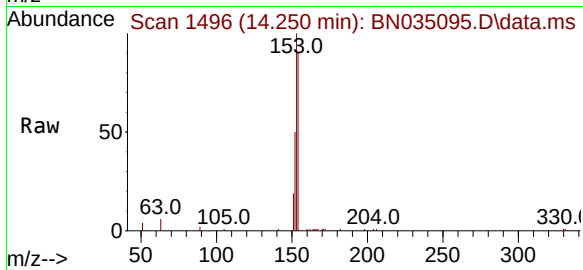




#17
Acenaphthene
Concen: 0.362 ng
RT: 14.250 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

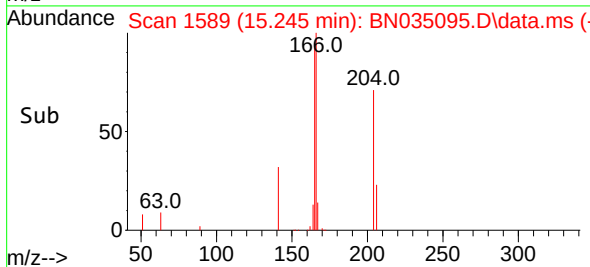
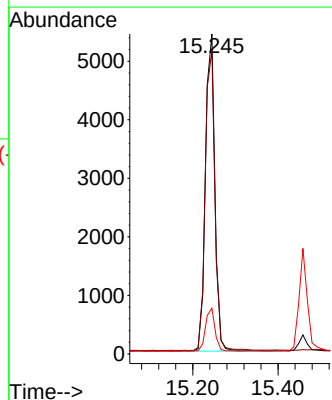
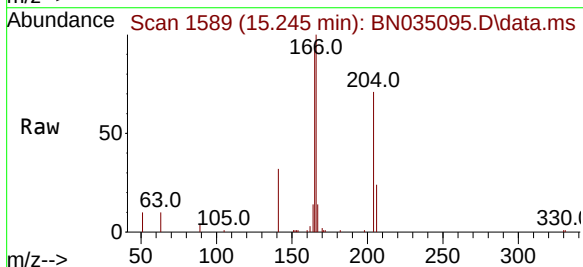
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

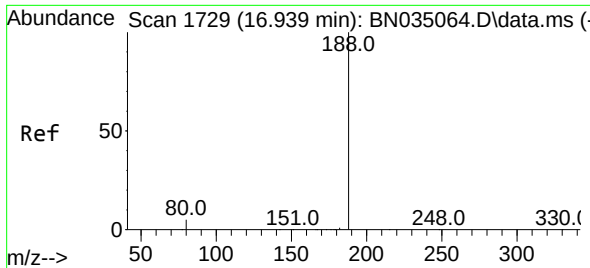
Tgt Ion	154	Resp:	5791
Ion Ratio	Lower	Upper	
154	100		
153	112.5	91.6	137.4
152	57.1	45.8	68.6



#18
Fluorene
Concen: 0.353 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion	166	Resp:	8299
Ion Ratio	Lower	Upper	
166	100		
165	96.8	79.1	118.7
167	13.5	10.6	16.0

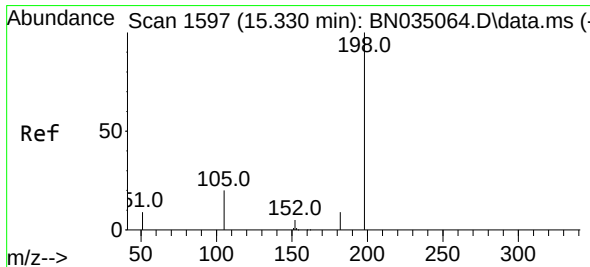
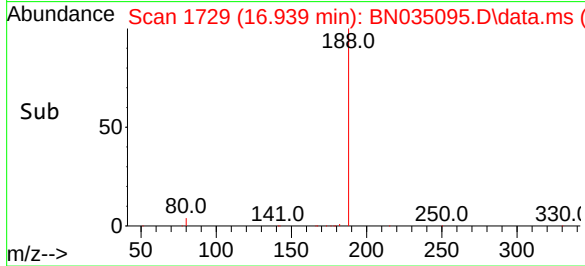
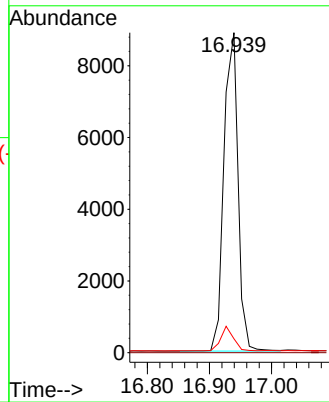
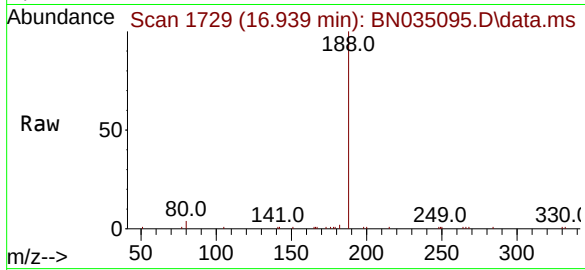




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.939 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

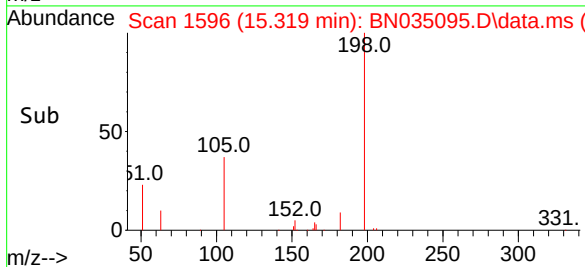
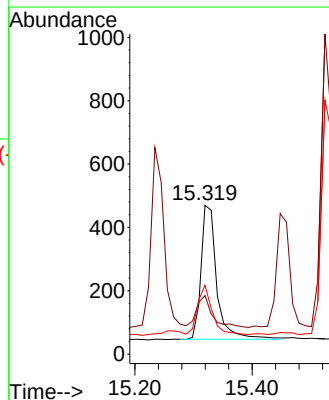
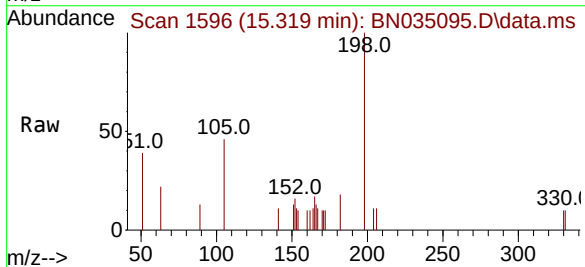
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

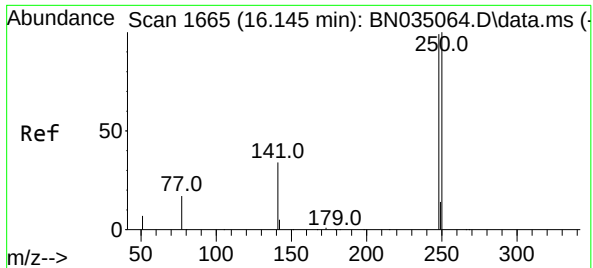
Tgt Ion:188	Resp:	13926
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	4.3	6.5



#20
4,6-Dinitro-2-methylphenol
Concen: 0.271 ng
RT: 15.319 min Scan# 1596
Delta R.T. -0.011 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion:198	Resp:	786
Ion Ratio	Lower	Upper
198	100	
51	39.4	29.9
105	46.2	35.5

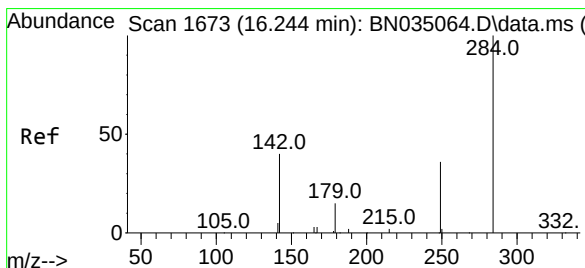
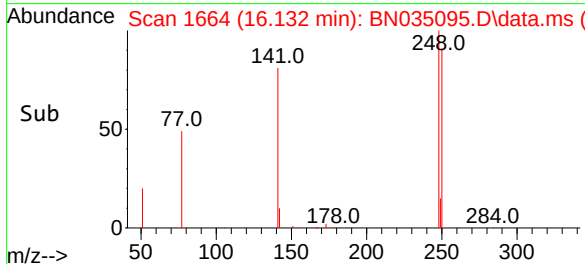
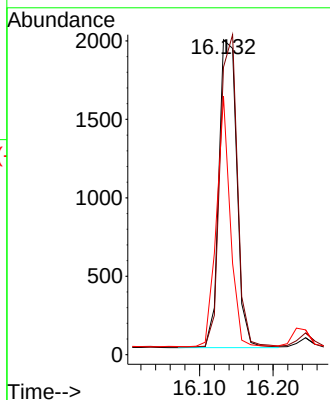
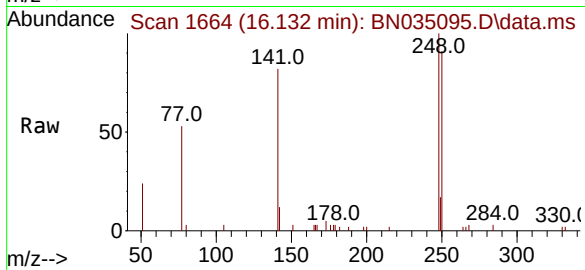




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.132 min Scan# 1664
Delta R.T. -0.013 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

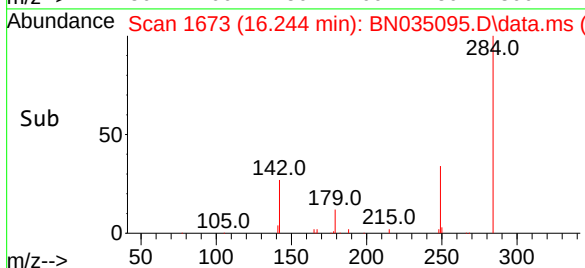
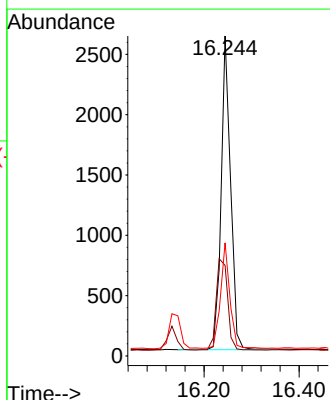
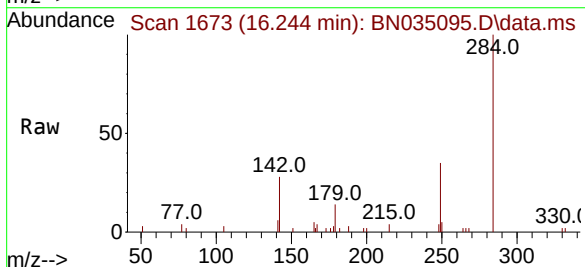
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

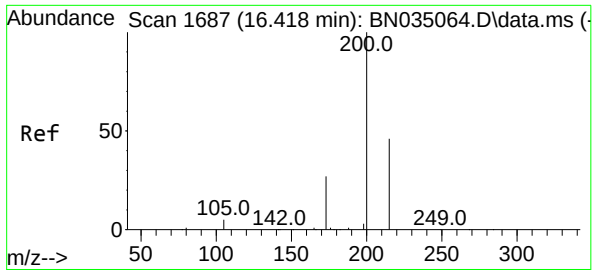
Tgt Ion:248 Resp: 3330
Ion Ratio Lower Upper
248 100
250 91.3 81.2 121.8
141 82.1 29.1 43.7#



#22
Hexachlorobenzene
Concen: 0.388 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion:284 Resp: 3574
Ion Ratio Lower Upper
284 100
142 35.2 28.2 42.4
249 33.0 26.2 39.2

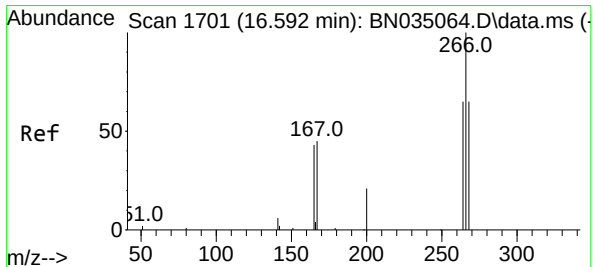
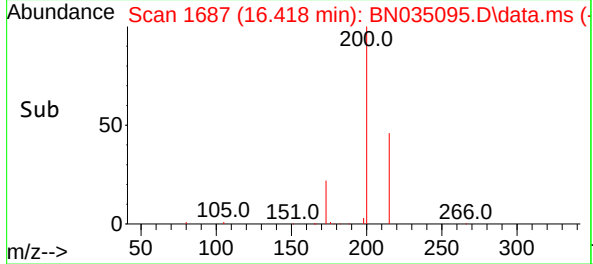
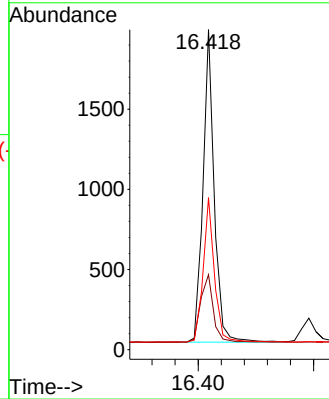
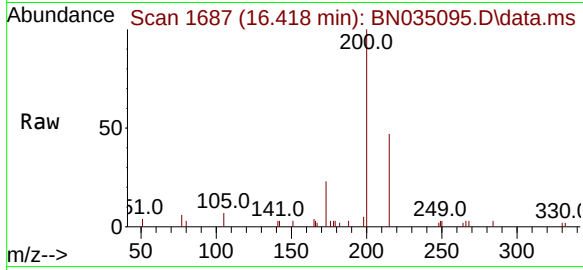




#23
Atrazine
Concen: 0.331 ng
RT: 16.418 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

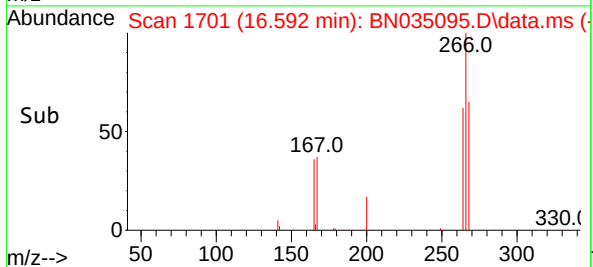
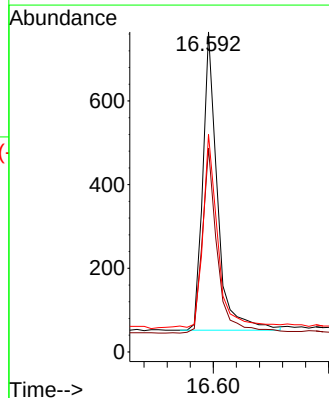
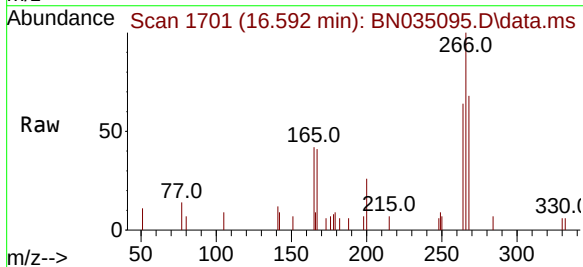
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

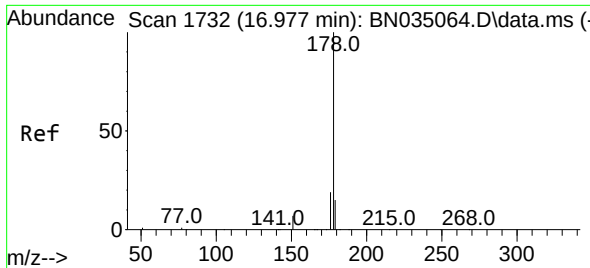
Tgt Ion	200	Resp:	2632
Ion Ratio	Lower	Upper	
200	100		
173	23.4	22.6	33.8
215	47.5	37.8	56.6



#24
Pentachlorophenol
Concen: 0.291 ng
RT: 16.592 min Scan# 1701
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion	266	Resp:	1253
Ion Ratio	Lower	Upper	
266	100		
264	64.2	49.4	74.0
268	68.2	52.6	79.0

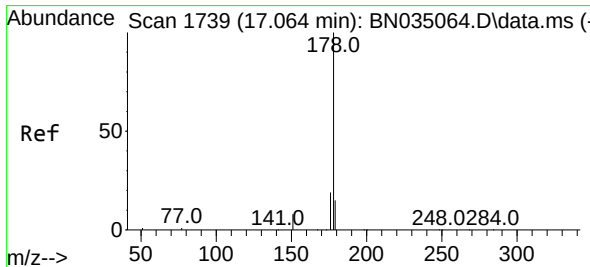
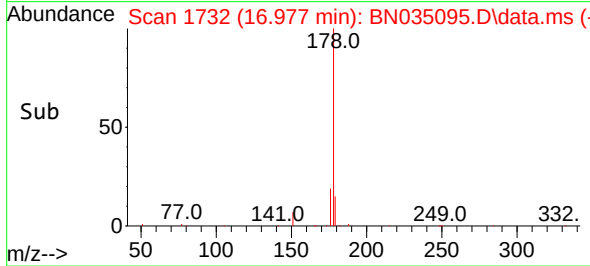
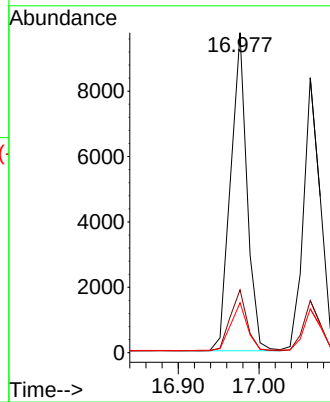
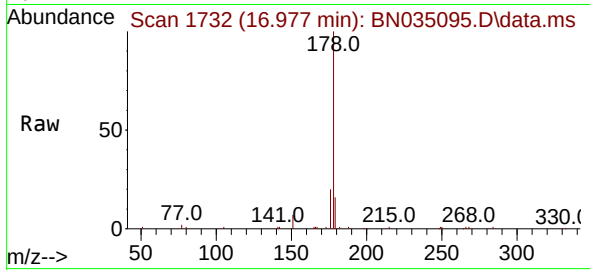




#25
Phenanthrene
Concen: 0.376 ng
RT: 16.977 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

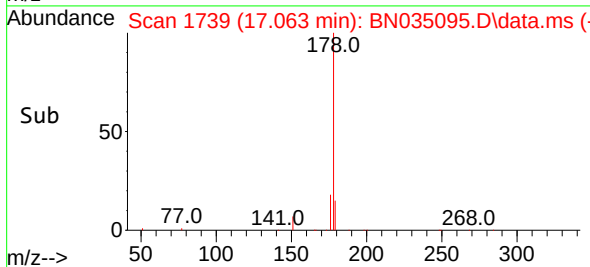
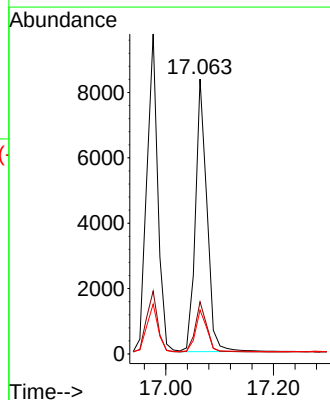
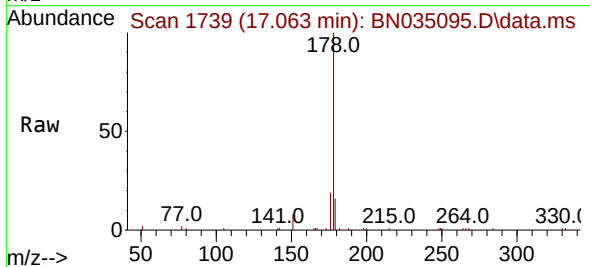
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

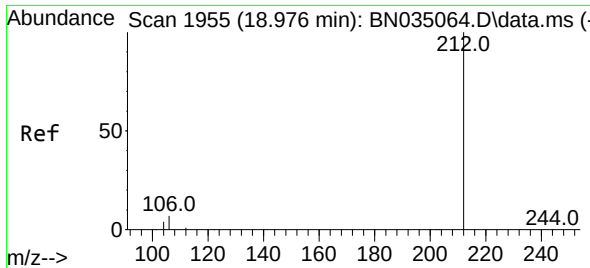
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.2	22.8
179	15.4	12.6	18.8



#26
Anthracene
Concen: 0.367 ng
RT: 17.063 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	22.0
179	15.5	12.2	18.2

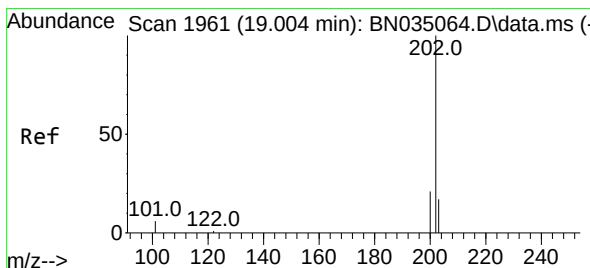
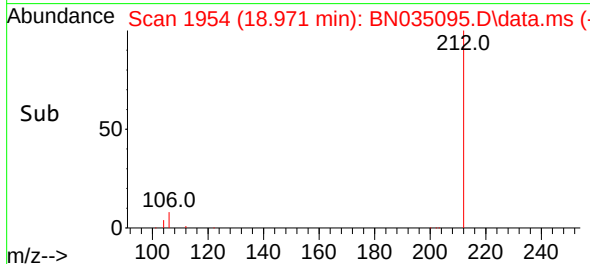
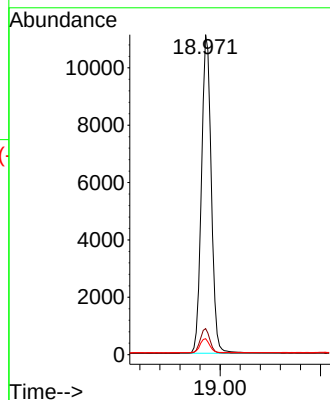
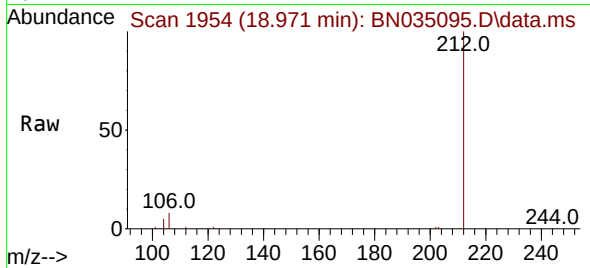




#27
Fluoranthene-d10
Concen: 0.354 ng
RT: 18.971 min Scan# 1954
Delta R.T. -0.005 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

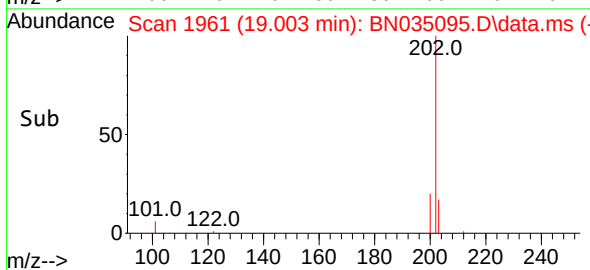
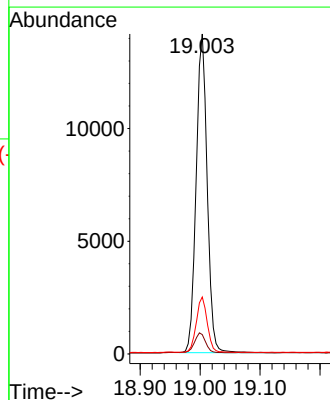
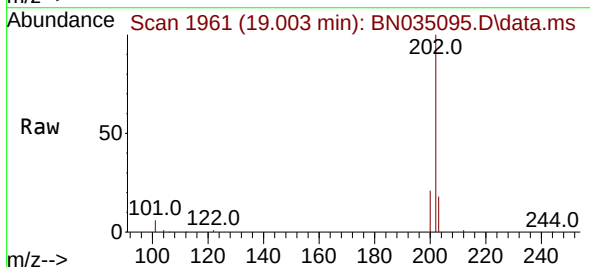
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

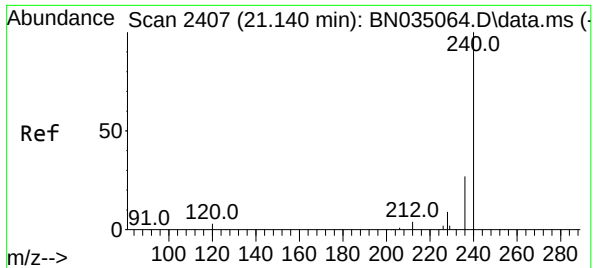
Tgt Ion	Ratio	Lower	Upper
212	100		
106	7.6	6.0	9.0
104	4.3	3.5	5.3



#28
Fluoranthene
Concen: 0.358 ng
RT: 19.003 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion	Ratio	Lower	Upper
202	100		
101	6.4	5.2	7.8
203	17.2	13.8	20.8

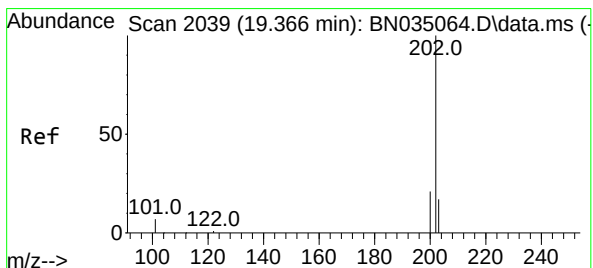
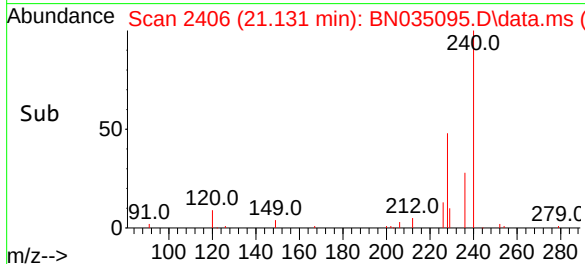
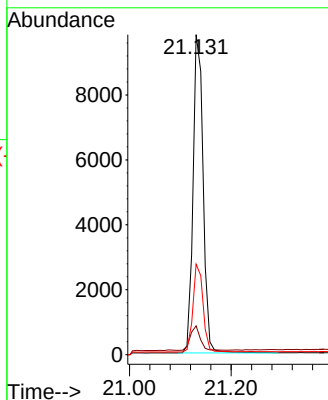
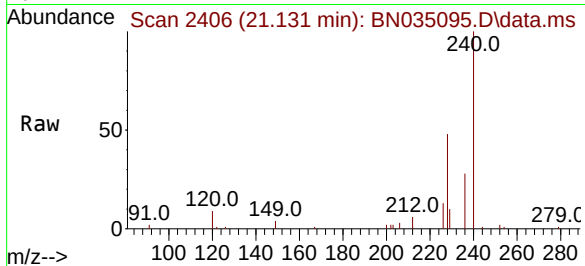




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.131 min Scan# 2406
Delta R.T. -0.009 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

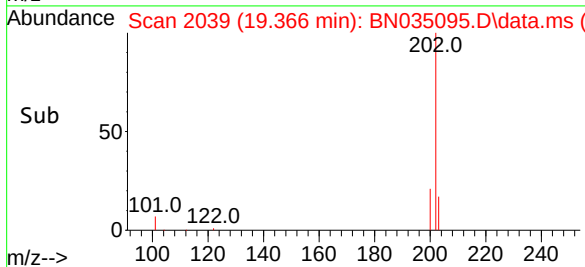
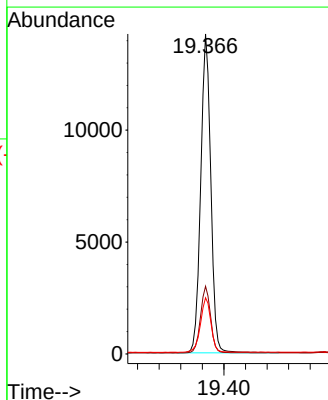
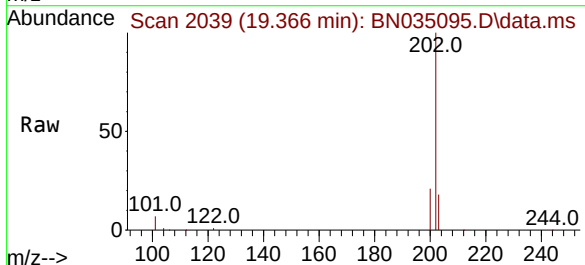
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

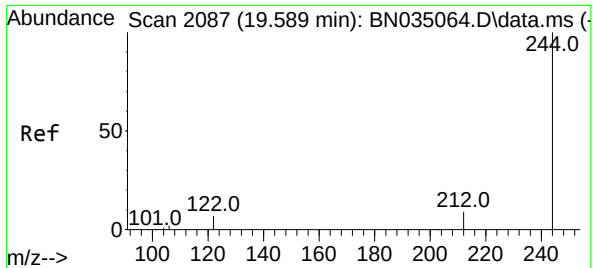
Tgt Ion:240 Resp: 13496
Ion Ratio Lower Upper
240 100
120 9.0 3.8 5.6#
236 28.3 22.2 33.2



#30
Pyrene
Concen: 0.410 ng
RT: 19.366 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion:202 Resp: 18421
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 17.8 14.2 21.4

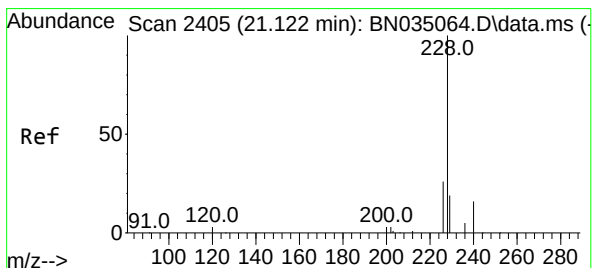
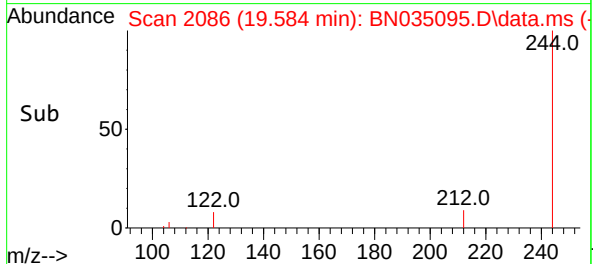
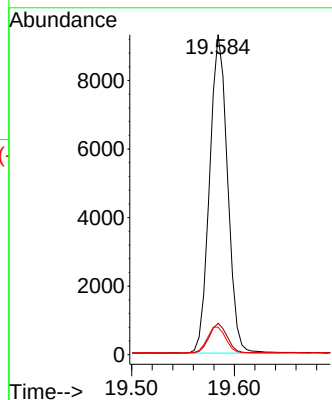
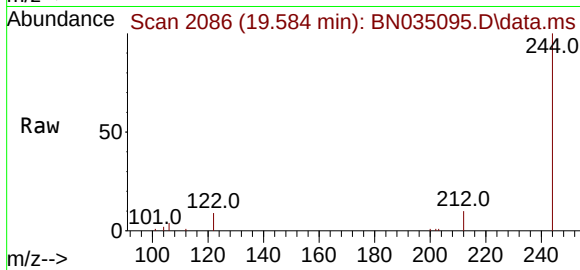




#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.584 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

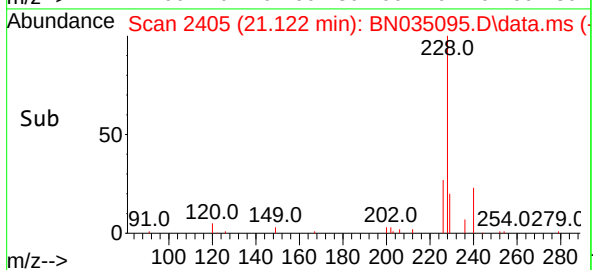
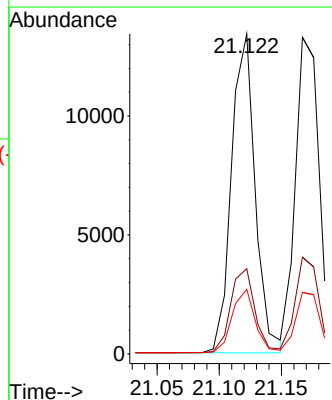
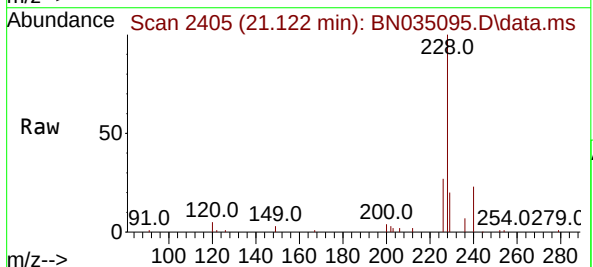
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

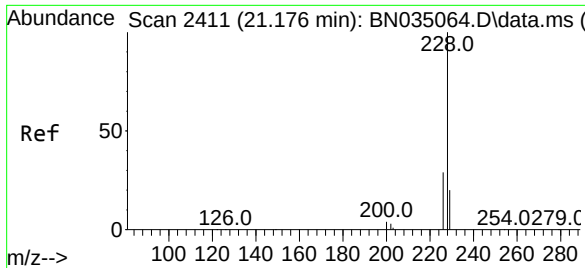
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.6	11.4
122	8.6	6.1	9.1



#32
Benzo(a)anthracene
Concen: 0.378 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.4	32.0
229	20.2	15.7	23.5

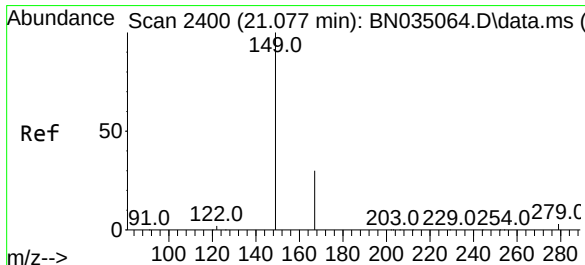
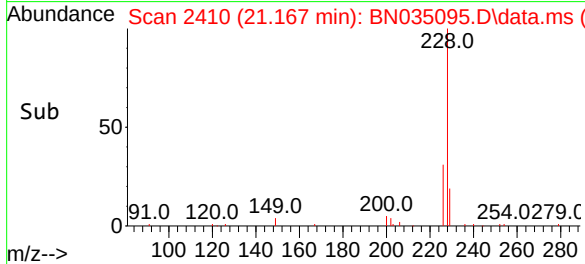
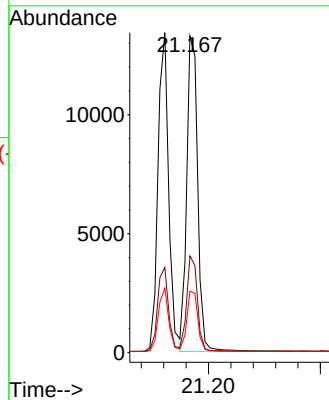
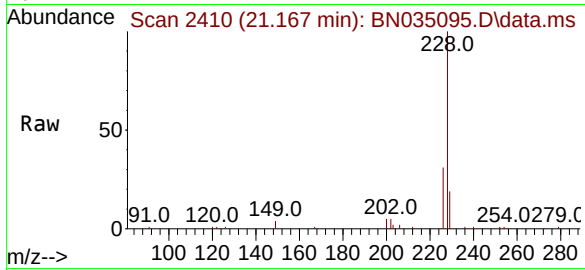




#33
Chrysene
Concen: 0.385 ng
RT: 21.167 min Scan# 2411
Delta R.T. -0.009 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

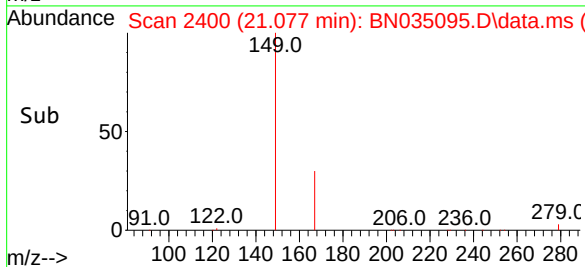
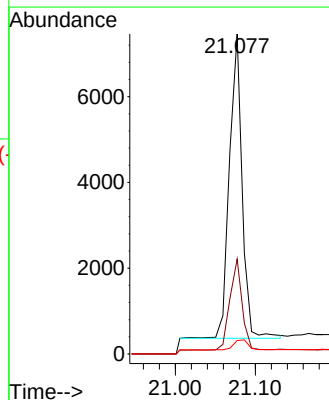
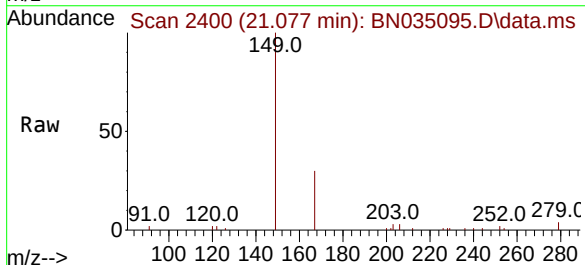
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

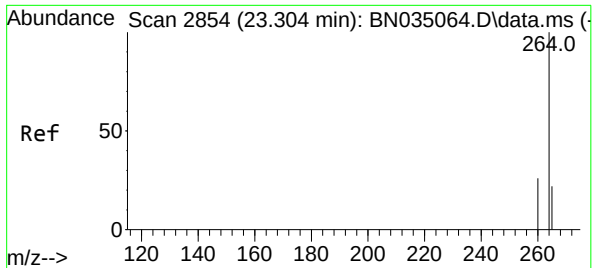
Tgt Ion:228 Resp: 17938
Ion Ratio Lower Upper
228 100
226 30.6 23.7 35.5
229 19.4 16.2 24.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.318 ng
RT: 21.077 min Scan# 2400
Delta R.T. -0.000 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion:149 Resp: 7837
Ion Ratio Lower Upper
149 100
167 28.7 23.2 34.8
279 3.6 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.301 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035095.D

Acq: 14 Nov 2024 19:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

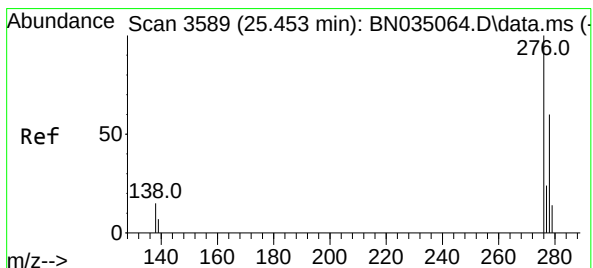
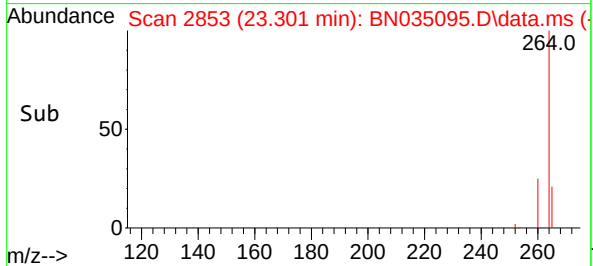
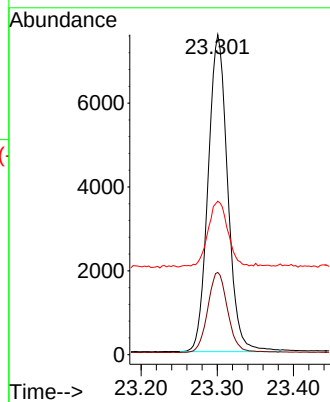
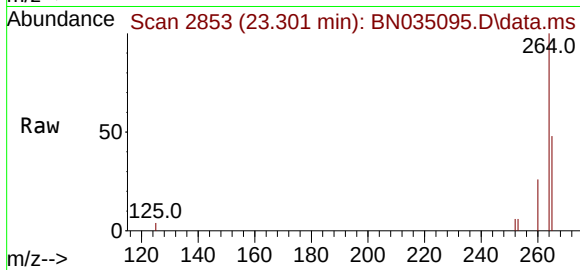
Tgt Ion:264 Resp: 13483

Ion Ratio Lower Upper

264 100

260 25.7 20.9 31.3

265 48.0 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.336 ng

RT: 25.449 min Scan# 3588

Delta R.T. -0.003 min

Lab File: BN035095.D

Acq: 14 Nov 2024 19:35

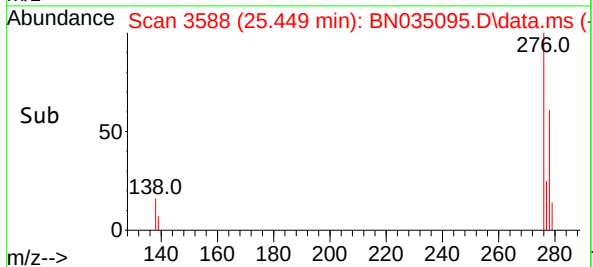
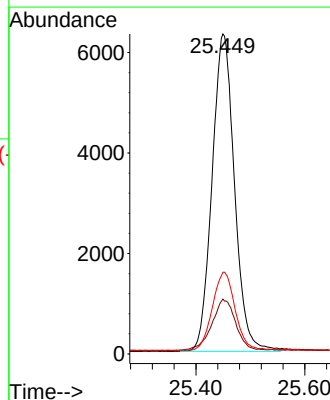
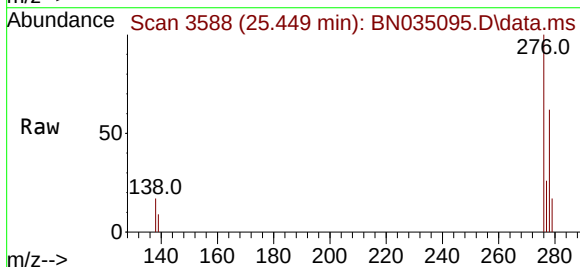
Tgt Ion:276 Resp: 18051

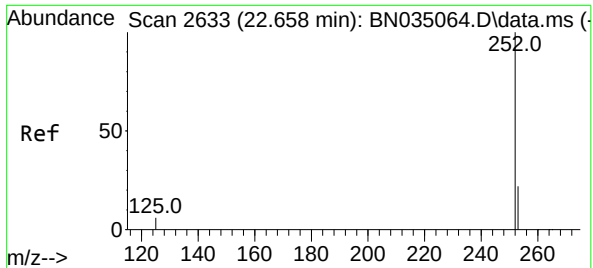
Ion Ratio Lower Upper

276 100

138 17.4 13.0 19.4

277 25.1 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.407 ng

RT: 22.657 min Scan# 2633

Delta R.T. -0.000 min

Lab File: BN035095.D

Acq: 14 Nov 2024 19:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

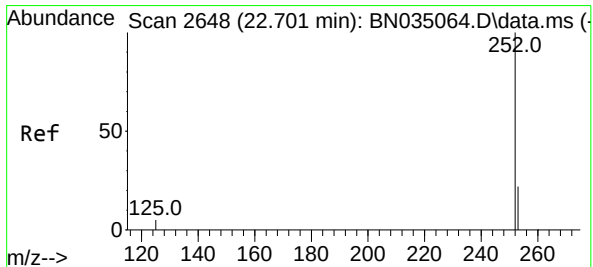
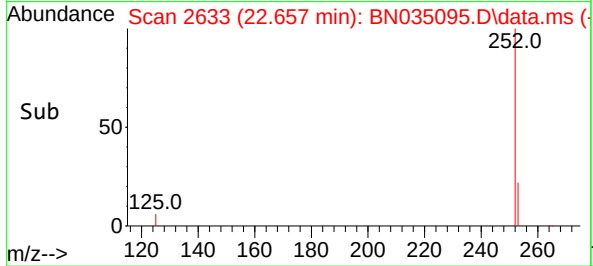
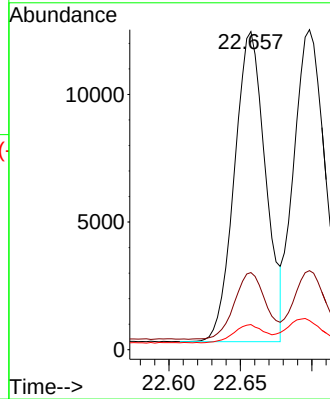
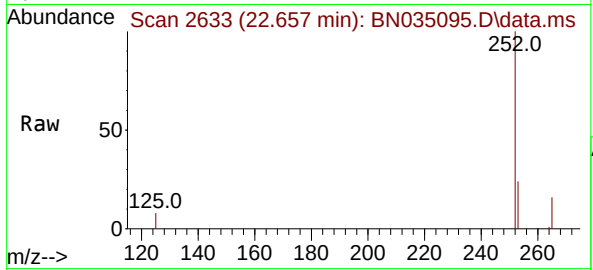
Tgt Ion:252 Resp: 18441

Ion Ratio Lower Upper

252 100

253 24.3 19.3 28.9

125 7.9 6.2 9.2



#38

Benzo(k)fluoranthene

Concen: 0.414 ng

RT: 22.698 min Scan# 2647

Delta R.T. -0.003 min

Lab File: BN035095.D

Acq: 14 Nov 2024 19:35

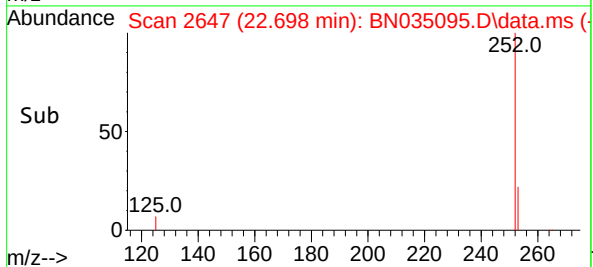
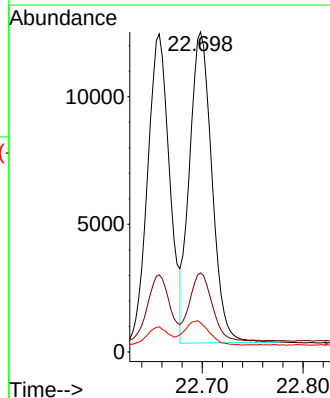
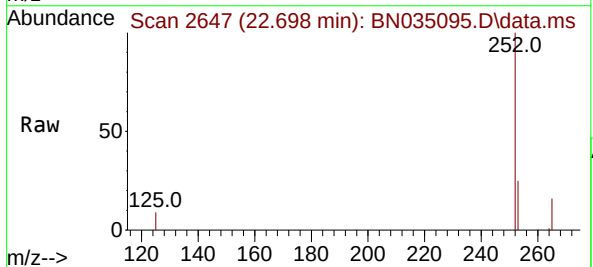
Tgt Ion:252 Resp: 18803

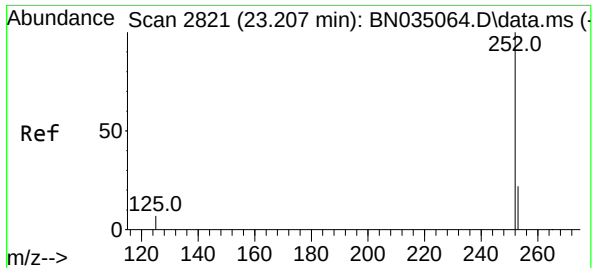
Ion Ratio Lower Upper

252 100

253 24.7 19.5 29.3

125 9.1 6.5 9.7

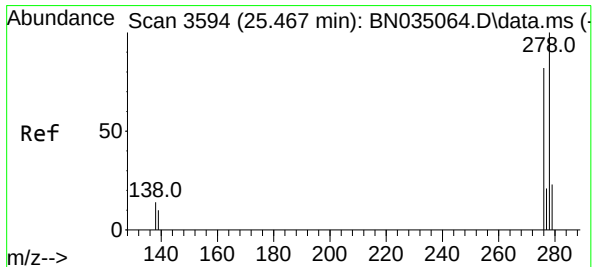
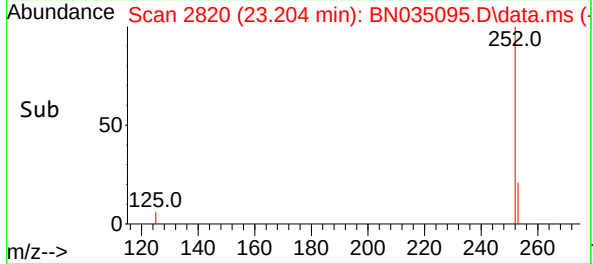
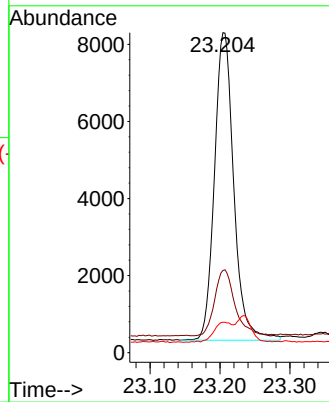
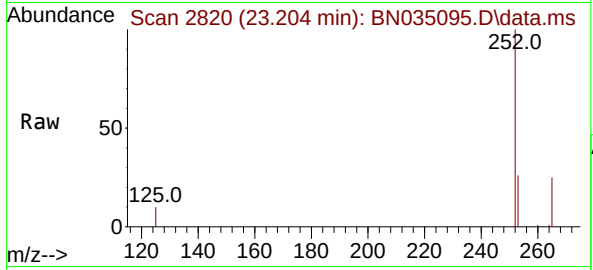




#39
Benzo(a)pyrene
Concen: 0.384 ng
RT: 23.204 min Scan# 2821
Delta R.T. -0.003 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

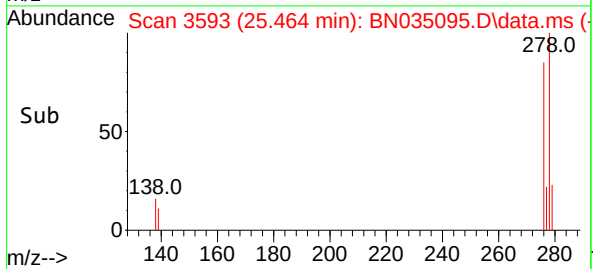
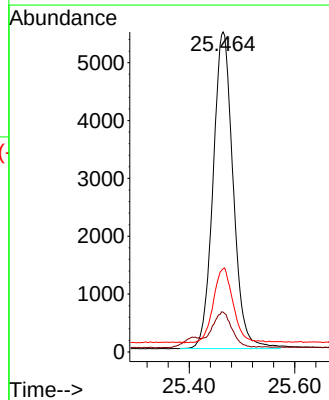
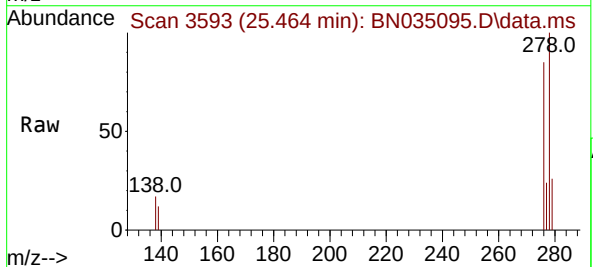
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

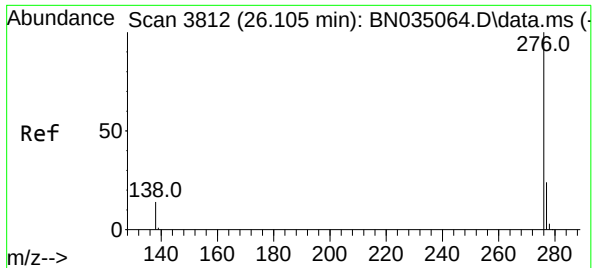
Tgt Ion:252	Resp:	15319
Ion Ratio	Lower	Upper
252	100	
253	25.7	20.1 30.1
125	9.5	7.5 11.3



#40
Dibenzo(a,h)anthracene
Concen: 0.339 ng
RT: 25.464 min Scan# 3593
Delta R.T. -0.003 min
Lab File: BN035095.D
Acq: 14 Nov 2024 19:35

Tgt Ion:278	Resp:	14439
Ion Ratio	Lower	Upper
278	100	
139	12.5	9.3 13.9
279	26.0	19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.320 ng

RT: 26.101 min Scan# 3811

Delta R.T. -0.003 min

Lab File: BN035095.D

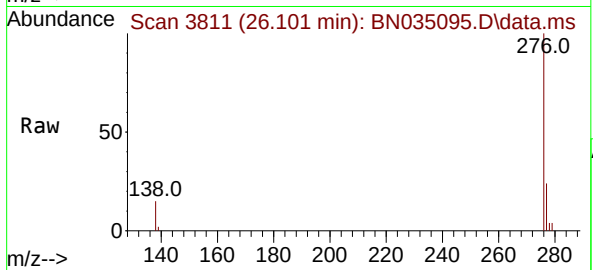
Acq: 14 Nov 2024 19:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



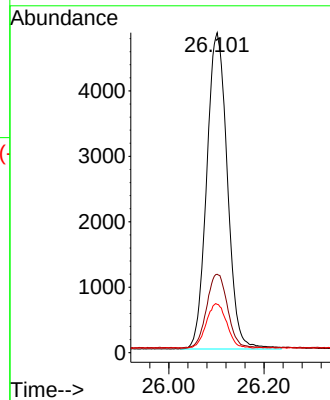
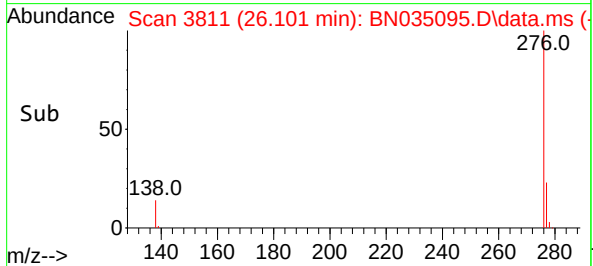
Tgt Ion:276 Resp: 14512

Ion Ratio Lower Upper

276 100

277 24.5 19.9 29.9

138 15.1 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035095.D
Acq On : 14 Nov 2024 19:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 15 01:08:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
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	100	0.00
2	1,4-Dioxane	0.363	0.321	11.6	96	0.00
3	n-Nitrosodimethylamine	0.339	0.294	13.3	91	0.00
4 S	2-Fluorophenol	1.015	0.911	10.2	97	0.00
5 S	Phenol-d6	1.273	1.198	5.9	104	0.00
6	bis(2-Chloroethyl)ether	0.956	0.886	7.3	100	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	106	0.00
8 S	Nitrobenzene-d5	0.348	0.309	11.2	103	-0.01
9	Naphthalene	1.044	0.978	6.3	107	0.00
10	Hexachlorobutadiene	0.306	0.291	4.9	106	0.00
11 SURR	2-Methylnaphthalene-d10	0.713	0.673	5.6	108	0.00
12	2-Methylnaphthalene	0.770	0.733	4.8	110	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00
14 S	2,4,6-Tribromophenol	0.289	0.227	21.5	100	0.00
15 S	2-Fluorobiphenyl	1.624	1.474	9.2	107	0.00
16	Acenaphthylene	1.709	1.492	12.7	106	-0.01
17	Acenaphthene	1.120	1.014	9.5	107	0.00
18	Fluorene	1.648	1.453	11.8	105	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00
20	4,6-Dinitro-2-methylphenol	0.083	0.056	32.5#	80	-0.01
21	4-Bromophenyl-phenylether	0.255	0.239	6.3	100	-0.01
22	Hexachlorobenzene	0.264	0.257	2.7	105	0.00
23	Atrazine	0.229	0.189	17.5	90	0.00
24	Pentachlorophenol	0.124	0.090	27.4#	89	0.00
25	Phenanthrene	1.053	0.989	6.1	102	0.00
26	Anthracene	0.967	0.887	8.3	99	0.00
27 SURR	Fluoranthene-d10	1.225	1.085	11.4	96	0.00
28	Fluoranthene	1.448	1.294	10.6	96	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	90	0.00
30	Pyrene	1.332	1.365	-2.5	96	0.00
31 S	Terphenyl-d14	0.839	0.833	0.7	93	0.00
32	Benzo(a)anthracene	1.393	1.315	5.6	89	0.00
33	Chrysene	1.380	1.329	3.7	90	0.00
34	Bis(2-ethylhexyl)phthalate	0.731	0.581	20.5	81	0.00
35 I	Perylene-d12	1.000	1.000	0.0	79	0.00
36	Indeno(1,2,3-cd)pyrene	1.596	1.339	16.1	69	0.00
37	Benzo(b)fluoranthene	1.346	1.368	-1.6	84	0.00
38	Benzo(k)fluoranthene	1.347	1.395	-3.6	86	0.00
39 C	Benzo(a)pyrene	1.184	1.136	4.1	80	0.00
40	Dibenzo(a,h)anthracene	1.264	1.071	15.3	70	0.00
41	Benzo(g,h,i)perylene	1.345	1.076	20.0	66	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035095.D
Acq On : 14 Nov 2024 19:35
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 15 01:08:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
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	100	0.00
2	1,4-Dioxane	0.400	0.354	11.5	96	0.00
3	n-Nitrosodimethylamine	0.400	0.347	13.3	91	0.00
4 S	2-Fluorophenol	0.400	0.359	10.3	97	0.00
5 S	Phenol-d6	0.400	0.376	6.0	104	0.00
6	bis(2-Chloroethyl)ether	0.400	0.371	7.3	100	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	106	0.00
8 S	Nitrobenzene-d5	0.400	0.355	11.3	103	-0.01
9	Naphthalene	0.400	0.375	6.3	107	0.00
10	Hexachlorobutadiene	0.400	0.381	4.8	106	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.377	5.8	108	0.00
12	2-Methylnaphthalene	0.400	0.381	4.8	110	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	106	0.00
14 S	2,4,6-Tribromophenol	0.400	0.315	21.3	100	0.00
15 S	2-Fluorobiphenyl	0.400	0.363	9.3	107	0.00
16	Acenaphthylene	0.400	0.349	12.8	106	-0.01
17	Acenaphthene	0.400	0.362	9.5	107	0.00
18	Fluorene	0.400	0.353	11.8	105	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	103	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.271	32.3#	80	-0.01
21	4-Bromophenyl-phenylether	0.400	0.375	6.3	100	-0.01
22	Hexachlorobenzene	0.400	0.388	3.0	105	0.00
23	Atrazine	0.400	0.331	17.3	90	0.00
24	Pentachlorophenol	0.400	0.291	27.3#	89	0.00
25	Phenanthrene	0.400	0.376	6.0	102	0.00
26	Anthracene	0.400	0.367	8.3	99	0.00
27 SURR	Fluoranthene-d10	0.400	0.354	11.5	96	0.00
28	Fluoranthene	0.400	0.358	10.5	96	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	90	0.00
30	Pyrene	0.400	0.410	-2.5	96	0.00
31 S	Terphenyl-d14	0.400	0.397	0.8	93	0.00
32	Benzo(a)anthracene	0.400	0.378	5.5	89	0.00
33	Chrysene	0.400	0.385	3.8	90	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.318	20.5	81	0.00
35 I	Perylene-d12	0.400	0.400	0.0	79	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.336	16.0	69	0.00
37	Benzo(b)fluoranthene	0.400	0.407	-1.7	84	0.00
38	Benzo(k)fluoranthene	0.400	0.414	-3.5	86	0.00
39 C	Benzo(a)pyrene	0.400	0.384	4.0	80	0.00
40	Dibenzo(a,h)anthracene	0.400	0.339	15.3	70	0.00
41	Benzo(g,h,i)perylene	0.400	0.320	20.0	66	0.00

(#) = Out of Range

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



QC SAMPLE DATA

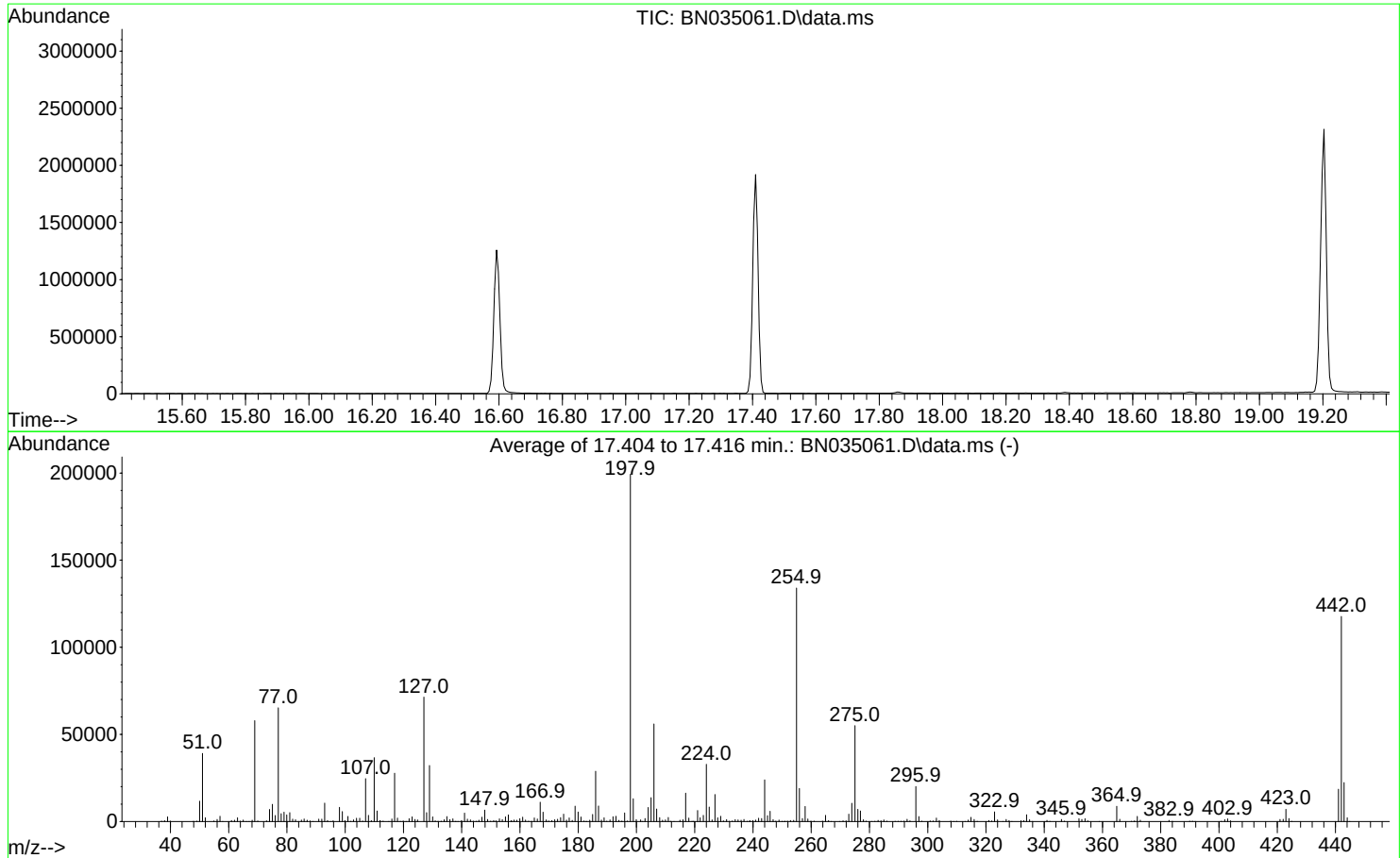
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035061.D
Acq On : 13 Nov 2024 12:01
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-BN111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 17:18:14 2024



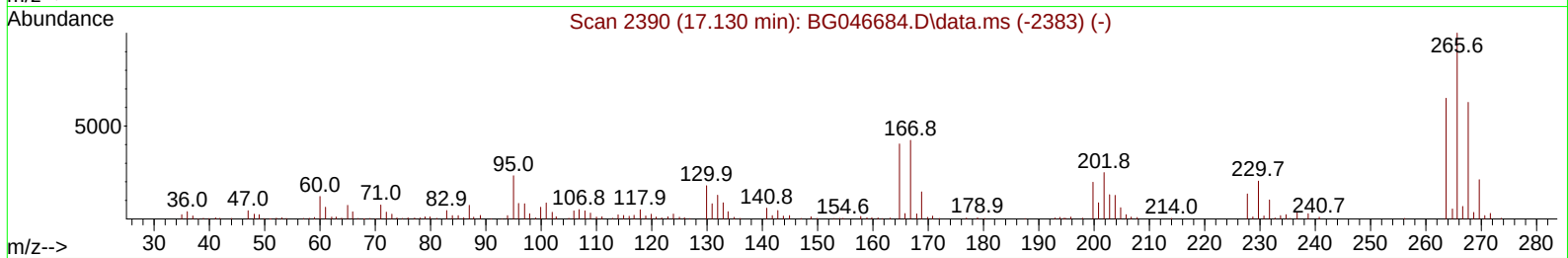
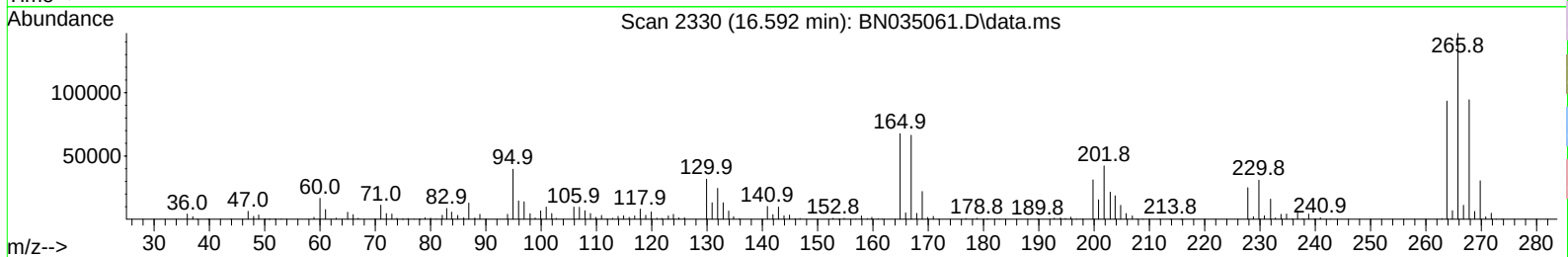
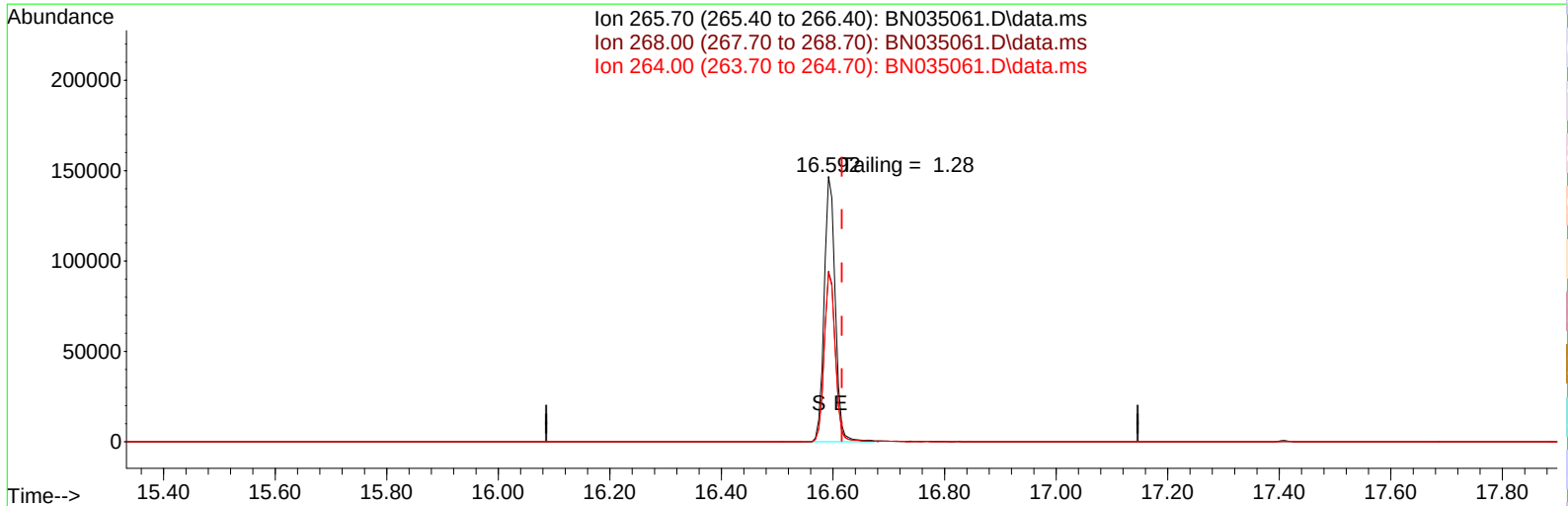
AutoFind: Scans 2468, 2469, 2470; Background Corrected with Scan 2461

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	19.6	39078	PASS
68	69	0.00	2	1.4	807	PASS
69	198	0.00	100	29.1	57928	PASS
70	69	0.00	2	0.7	382	PASS
127	198	10	80	35.9	71451	PASS
197	198	0.00	2	0.2	365	PASS
198	198	100	100	100.0	199275	PASS
199	198	5	9	6.6	13094	PASS
275	198	10	60	27.6	55048	PASS
365	198	1	100	4.4	8801	PASS
441	198	0.01	100	9.3	18540	PASS
442	442	50	100	100.0	117725	PASS
443	442	15	24	19.0	22395	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035061.D
Acq On : 13 Nov 2024 12:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 14 15:14:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 09 04:05:27 2024
Response via : Initial Calibration



TIC: BN035061.D\data.ms

(70) Pentachlorophenol (C)

16.592min (-0.024) 20966.65 ng

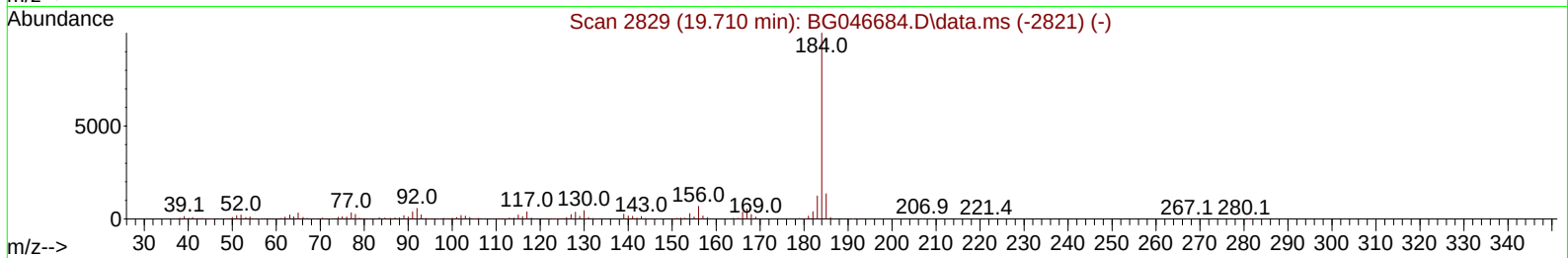
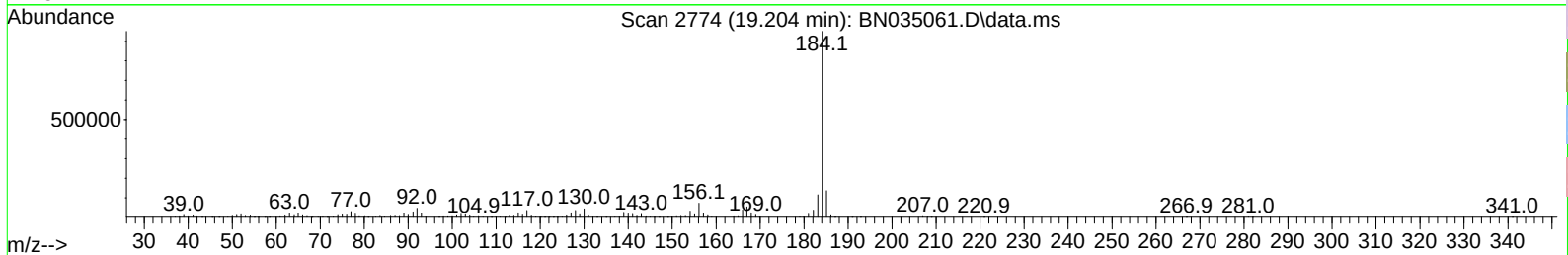
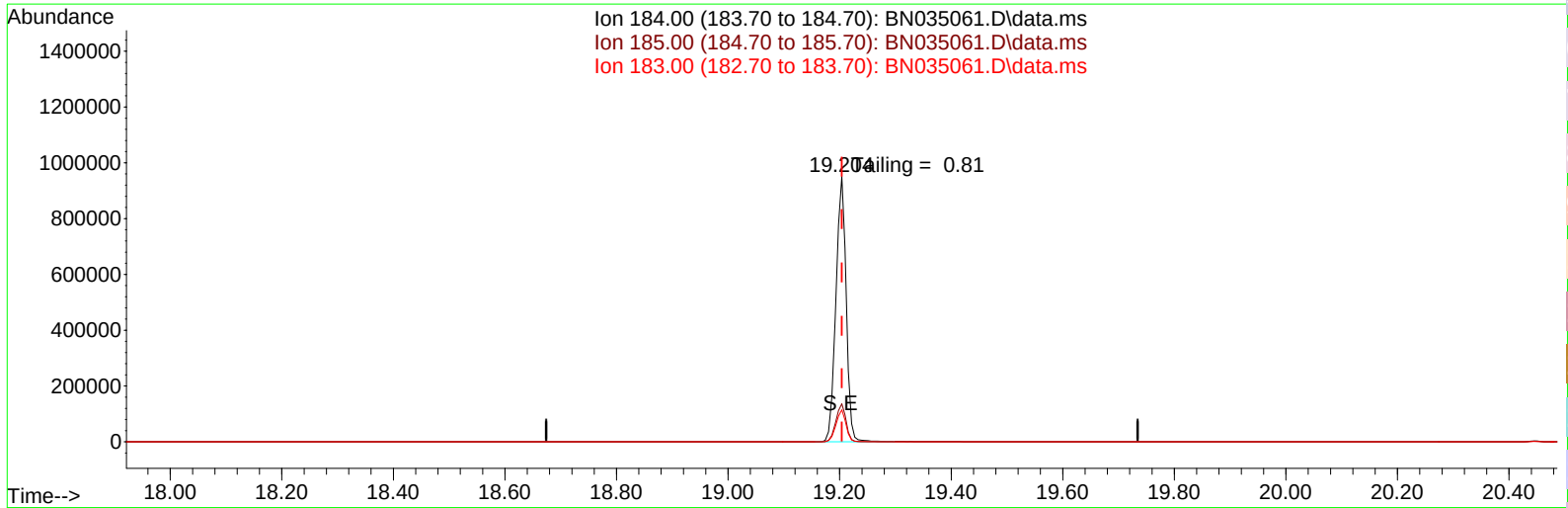
response 202879

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.29
264.00	61.60	63.61
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035061.D
Acq On : 13 Nov 2024 12:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 14 15:14:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Nov 09 04:05:27 2024
Response via : Initial Calibration



TIC: BN035061.D\data.ms

(77) Benzidine

19.204min (-0.000) 0.00 ng

response 1216684

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.30
183.00	13.20	12.08
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

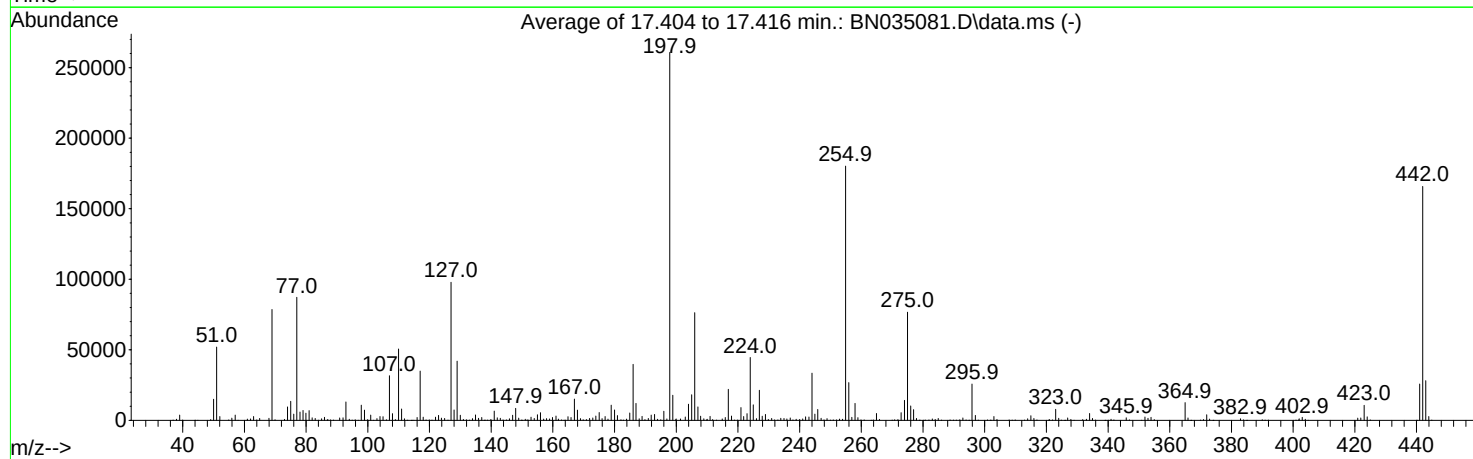
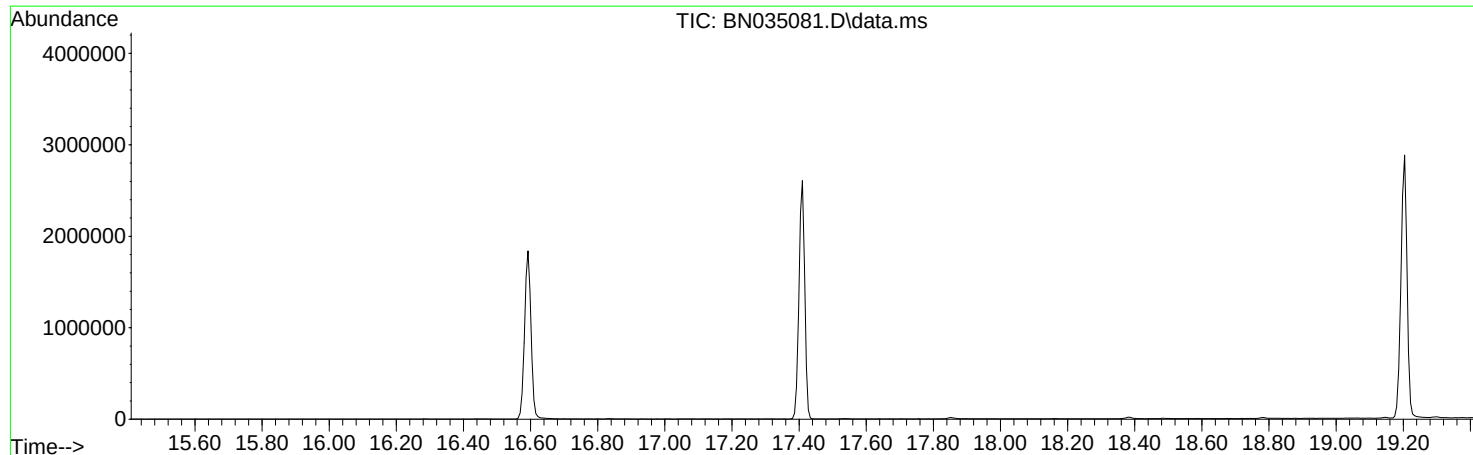
Date	Instrument Name	DFTPP Data File
11/13/2024	BNA_N	<u>BN035561.D</u>
Compound Name	Response	Retention Time
DDT	699321	20.445
DDD	6440	20.057
DDE	0	19.527
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
6440	705761	0.91

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035081.D
Acq On : 14 Nov 2024 08:53
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-BN111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 17:18:14 2024



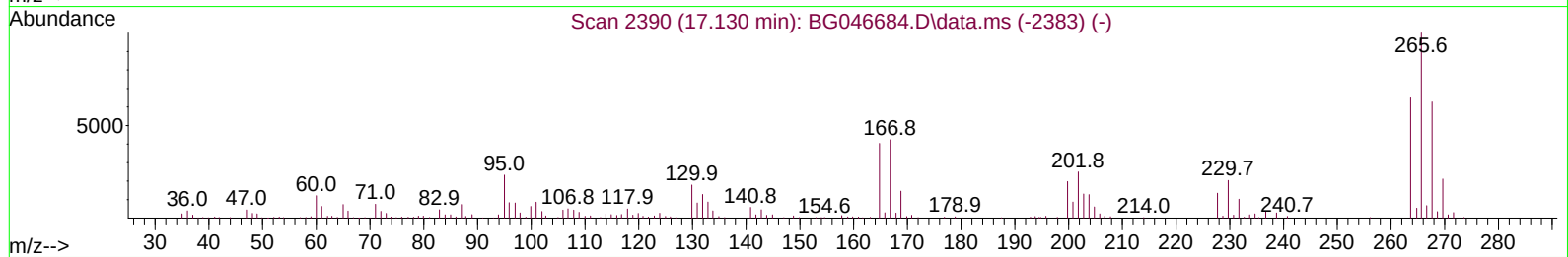
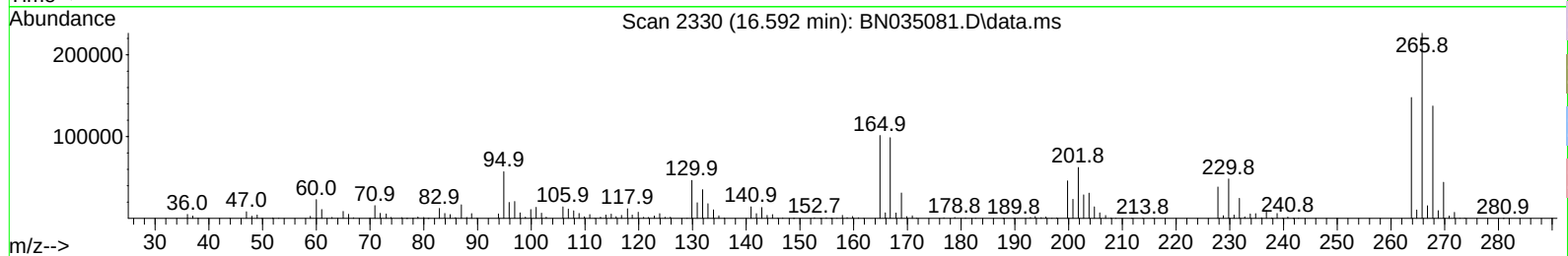
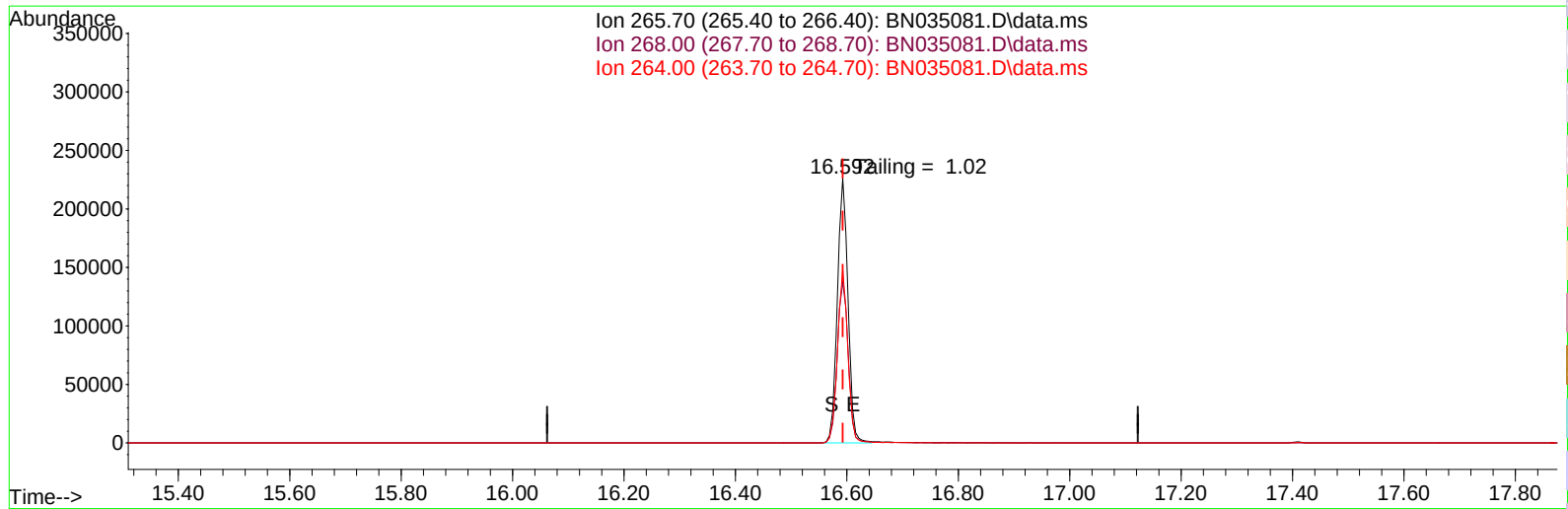
AutoFind: Scans 2468, 2469, 2470; Background Corrected with Scan 2461

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	19.9	51893	PASS
68	69	0.00	2	1.9	1465	PASS
69	198	0.00	100	30.1	78547	PASS
70	69	0.00	2	0.6	499	PASS
127	198	10	80	37.5	97883	PASS
197	198	0.00	2	0.4	1067	PASS
198	198	100	100	100.0	260736	PASS
199	198	5	9	6.8	17819	PASS
275	198	10	60	29.4	76672	PASS
365	198	1	100	4.8	12586	PASS
441	198	0.01	100	9.9	25771	PASS
442	442	50	100	100.0	165845	PASS
443	442	15	24	16.9	28101	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035081.D
Acq On : 14 Nov 2024 08:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 15 01:14:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 15 01:14:43 2024
Response via : Initial Calibration



TIC: BN035081.D\data.ms

(70) Pentachlorophenol (C)

16.592min (0.000) 22635.68 ng

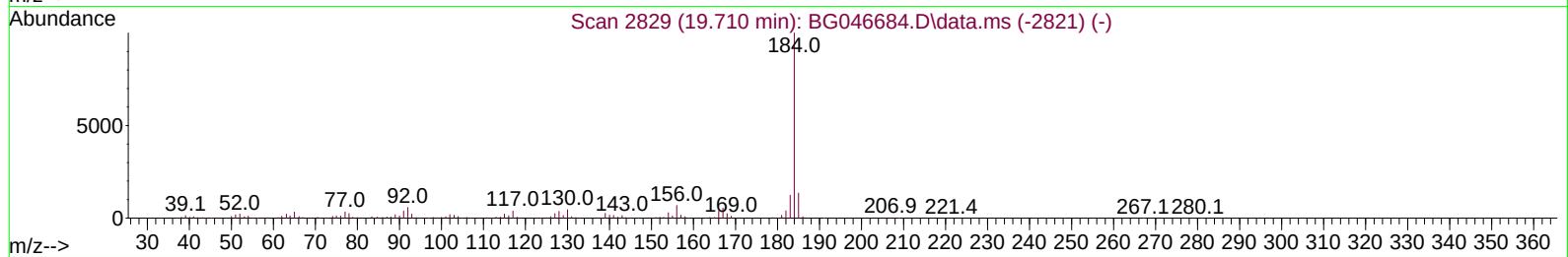
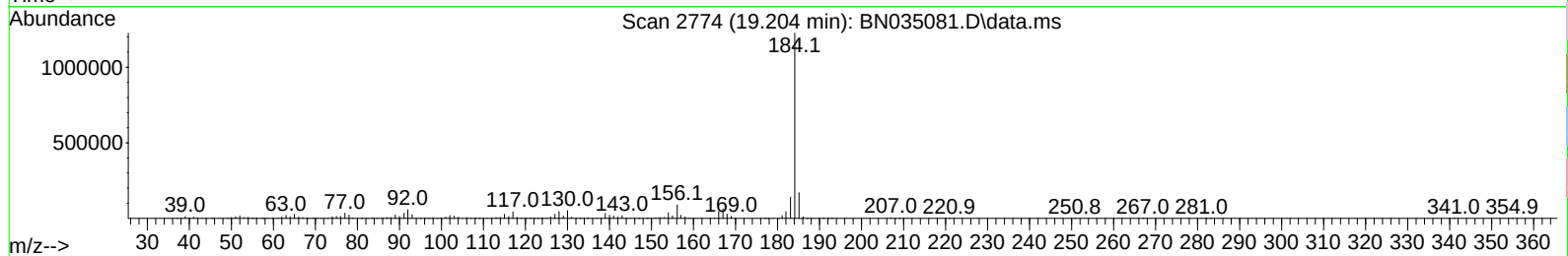
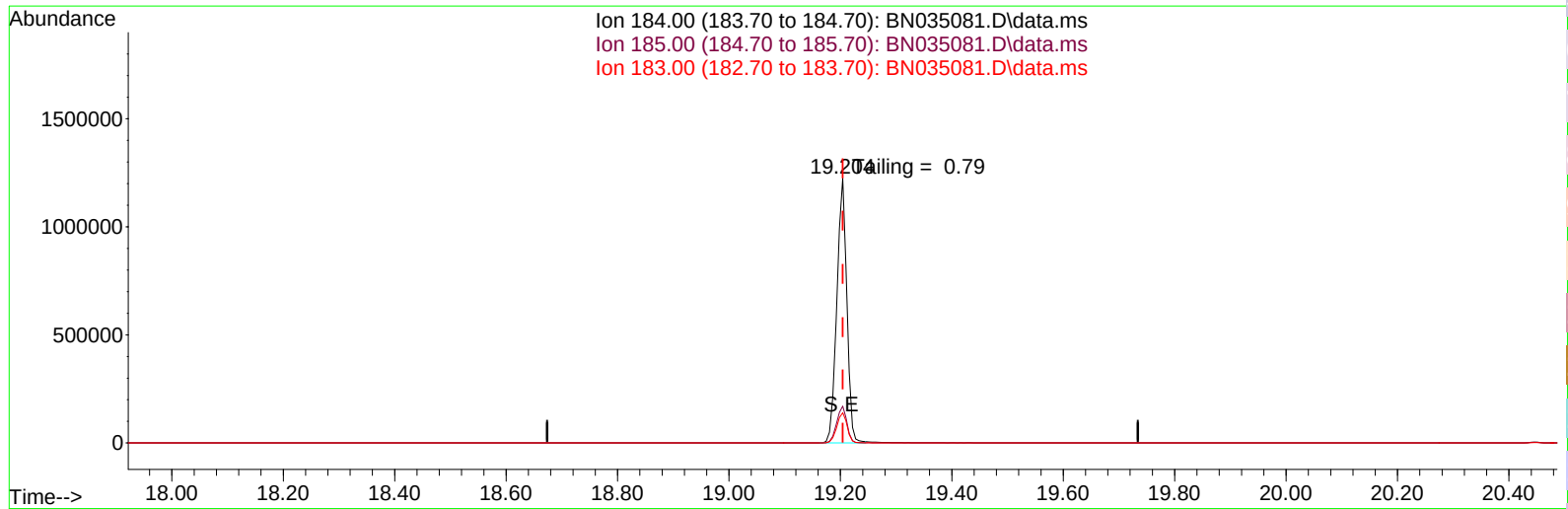
response 303230

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.69
264.00	61.60	65.30
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111424\
Data File : BN035081.D
Acq On : 14 Nov 2024 08:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 15 01:14:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 15 01:14:43 2024
Response via : Initial Calibration



TIC: BN035081.D\data.ms

(77) Benzidine

19.204min (0.000) 0.00 ng

response 1534532

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.91
183.00	13.20	11.39
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/14/2024	BNA_N	<u>BN035081.D</u>
Compound Name	Response	Retention Time
DDT	954250	20.445
DDD	16295	20.004
DDE	363	19.458
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
16658	970908	1.72

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164785BL	SDG No.:	P4773
Lab Sample ID:	PB164785BL	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035070.D	1	11/08/24 11:30	11/13/24 17:27	PB164785

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	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		91%	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	2170	7.553				
1146-65-2	Naphthalene-d8	5020	10.319				
15067-26-2	Acenaphthene-d10	3540	14.19				
1517-22-2	Phenanthrene-d10	9470	16.932				
1719-03-5	Chrysene-d12	10400	21.133				
1520-96-3	Perylene-d12	11900	23.306				

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\BN111324\
Data File : BN035070.D
Acq On : 13 Nov 2024 17:27
Operator : RC/JU
Sample : PB164785BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164785BL

Quant Time: Nov 13 17:51:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2165	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	5024	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	3542	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	9470	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	10363	0.400	ng	# 0.00
35) Perylene-d12	23.306	264	11874	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.184	112	1924	0.350	ng	0.00
5) Phenol-d6	6.744	99	2312	0.335	ng	0.00
8) Nitrobenzene-d5	8.696	82	1663	0.380	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	3118	0.348	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	566	0.222	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	5272	0.366	ng	0.00
27) Fluoranthene-d10	18.973	212	11241	0.387	ng	0.00
31) Terphenyl-d14	19.587	244	9016	0.415	ng	0.00

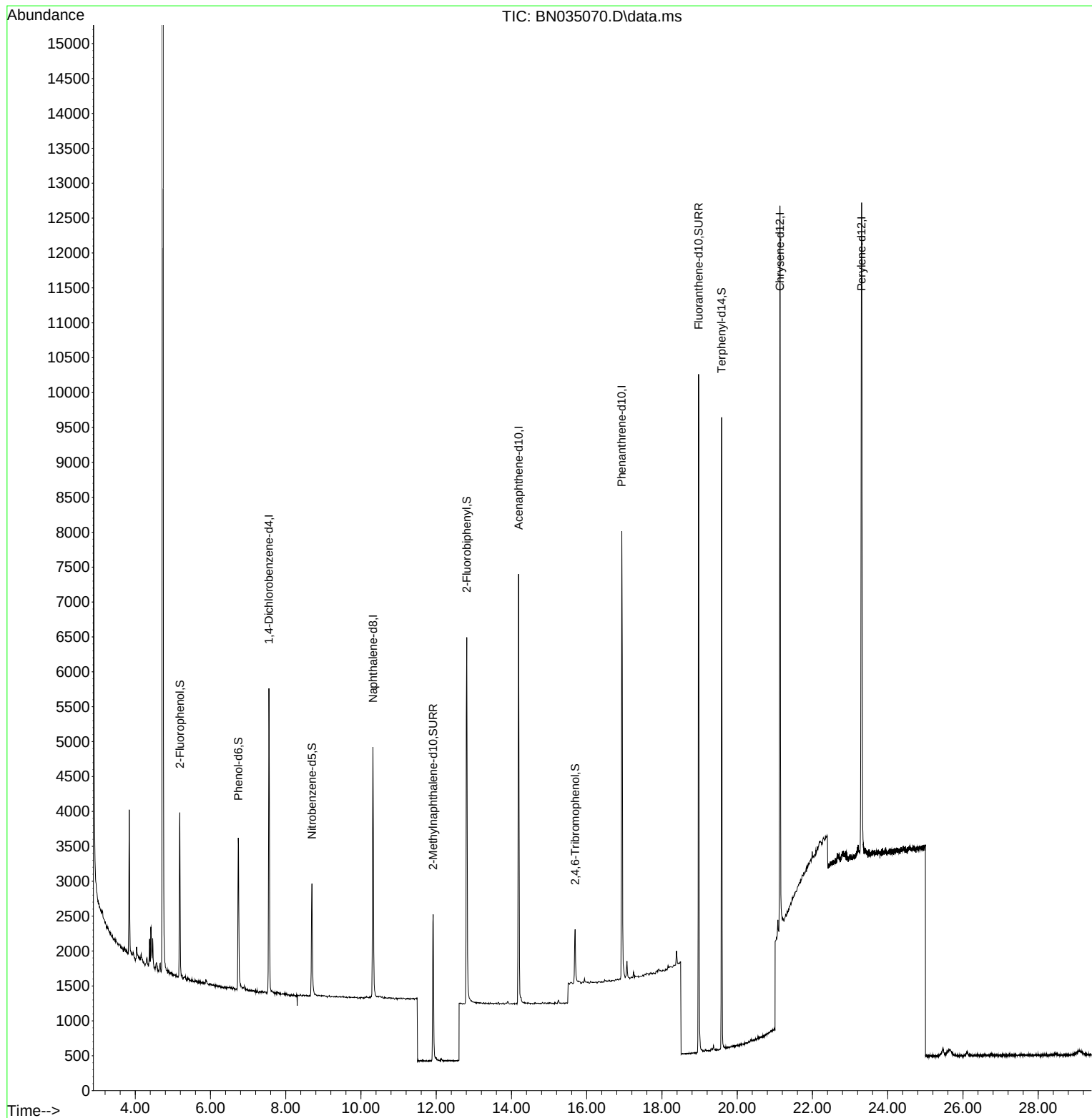
Target Compounds	Qvalue

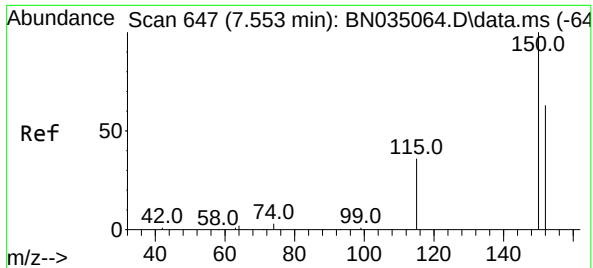
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035070.D
Acq On : 13 Nov 2024 17:27
Operator : RC/JU
Sample : PB164785BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164785BL

Quant Time: Nov 13 17:51:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

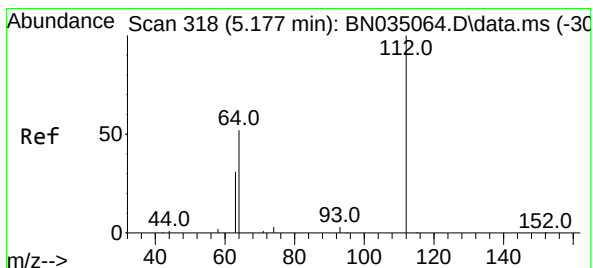
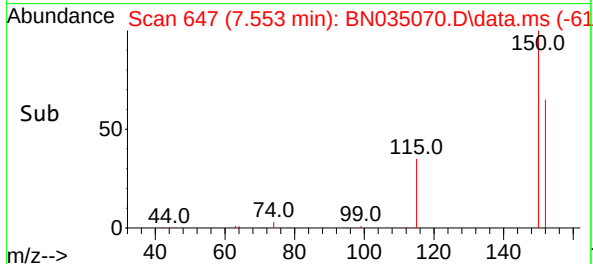
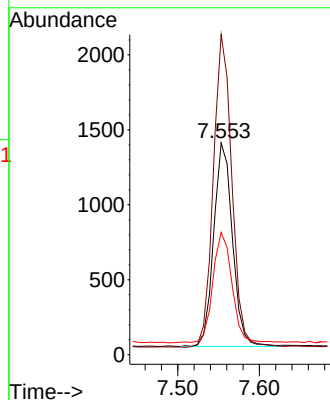
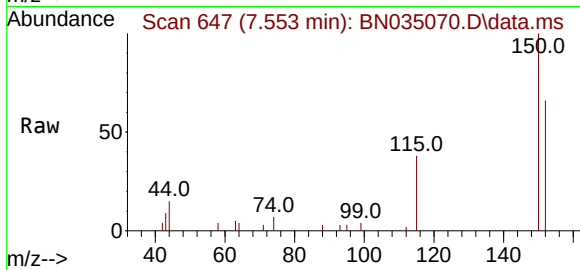




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035070.D
Acq: 13 Nov 2024 17:27

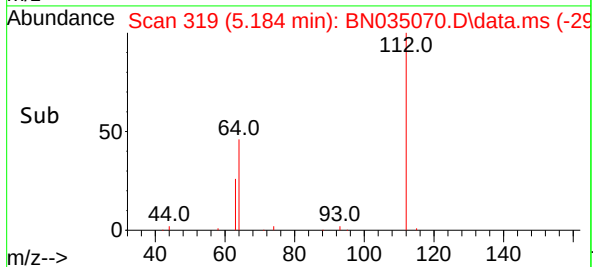
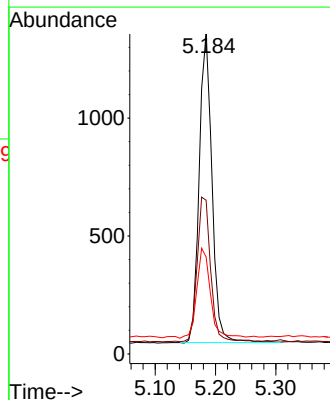
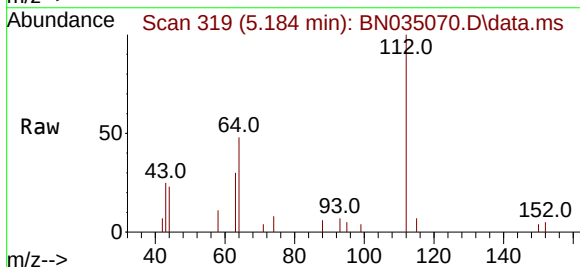
Instrument :
BNA_N
ClientSampleId :
PB164785BL

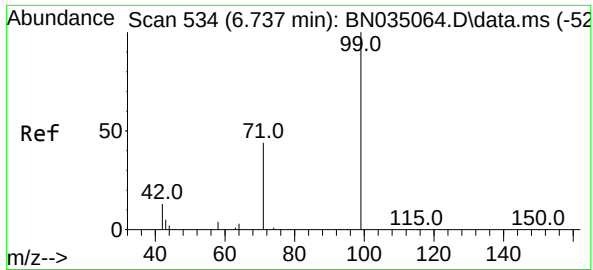
Tgt Ion	Ratio	Lower	Upper
152	100		
150	151.2	124.5	186.7
115	57.8	47.8	71.6



#4
2-Fluorophenol
Concen: 0.350 ng
RT: 5.184 min Scan# 319
Delta R.T. 0.007 min
Lab File: BN035070.D
Acq: 13 Nov 2024 17:27

Tgt Ion	Ratio	Lower	Upper
112	100		
64	49.1	39.7	59.5
63	31.5	23.0	34.4

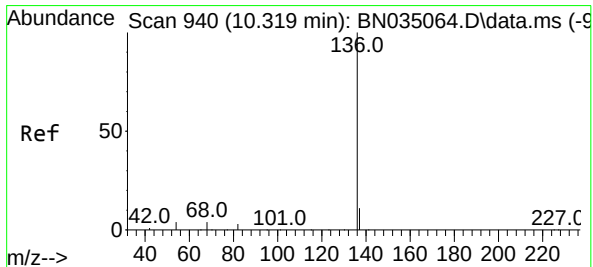
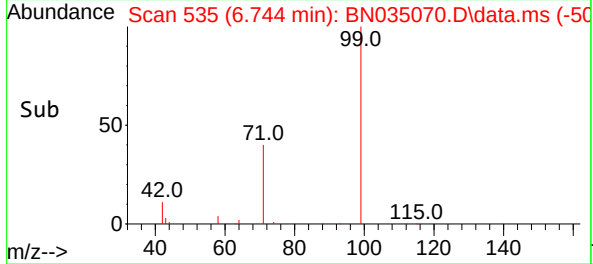
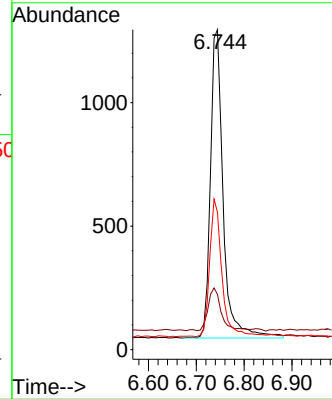
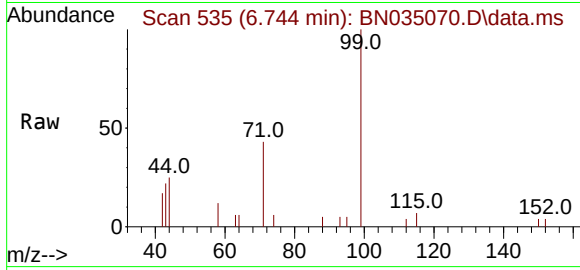




#5
Phenol-d6
Concen: 0.335 ng
RT: 6.744 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN035070.D
Acq: 13 Nov 2024 17:27

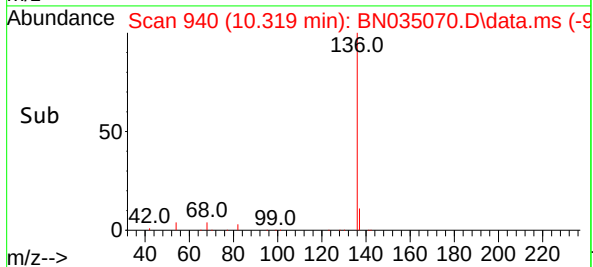
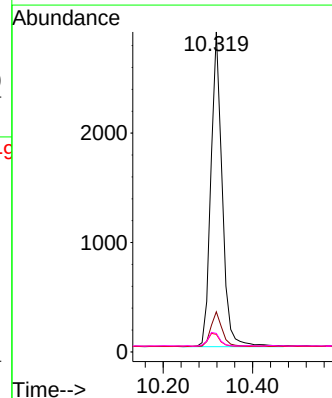
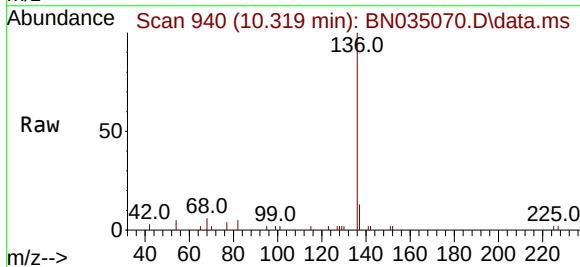
Instrument :
BNA_N
ClientSampleId :
PB164785BL

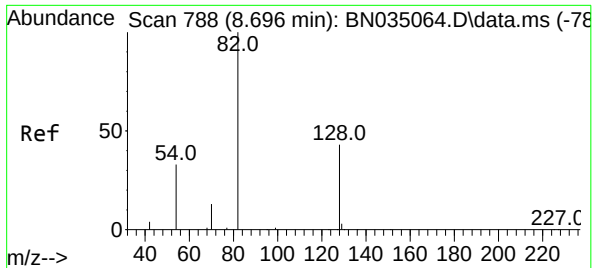
Tgt Ion:	99	Resp:	2312
Ion	Ratio	Lower	Upper
99	100		
42	14.1	11.4	17.0
71	43.3	34.6	51.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035070.D
Acq: 13 Nov 2024 17:27

Tgt Ion:	136	Resp:	5024
Ion	Ratio	Lower	Upper
136	100		
137	12.5	9.8	14.8
54	5.5	4.0	6.0
68	5.8	4.2	6.2

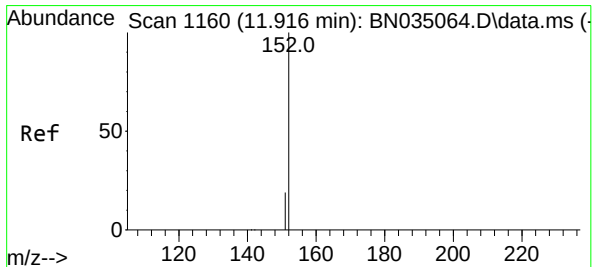
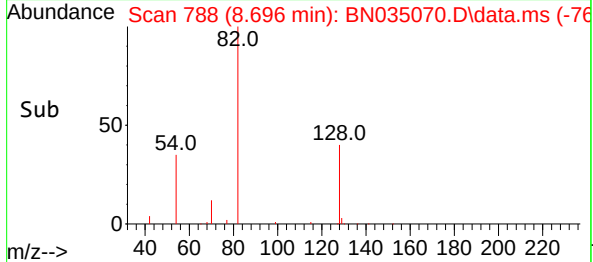
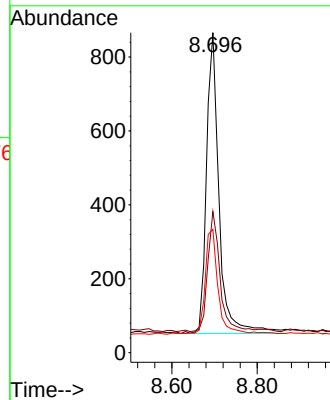
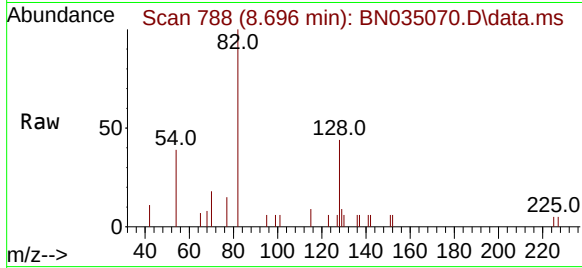




#8
Nitrobenzene-d5
Concen: 0.380 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035070.D
Acq: 13 Nov 2024 17:27

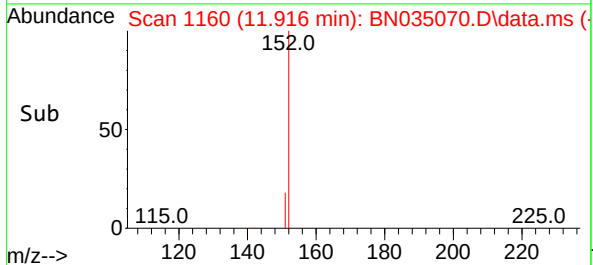
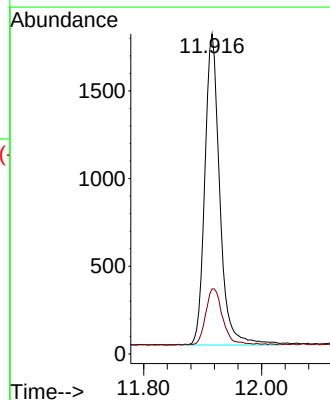
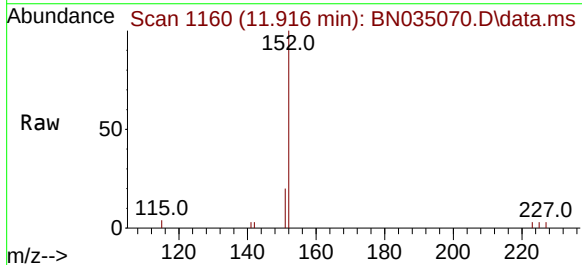
Instrument :
BNA_N
ClientSampleId :
PB164785BL

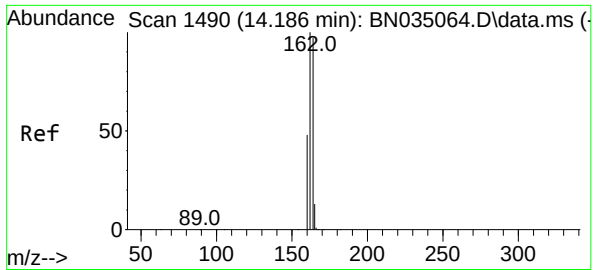
Tgt Ion:	82	Resp:	1663
Ion	Ratio	Lower	Upper
82	100		
128	44.1	36.5	54.7
54	38.6	28.7	43.1



#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BN035070.D
Acq: 13 Nov 2024 17:27

Tgt Ion:	152	Resp:	3118
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4

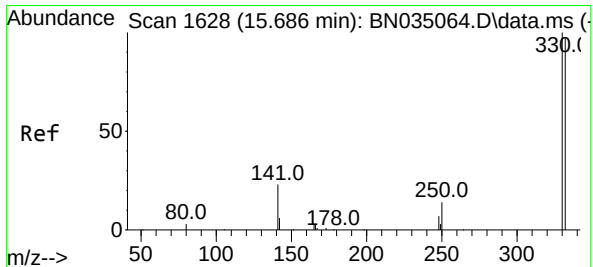
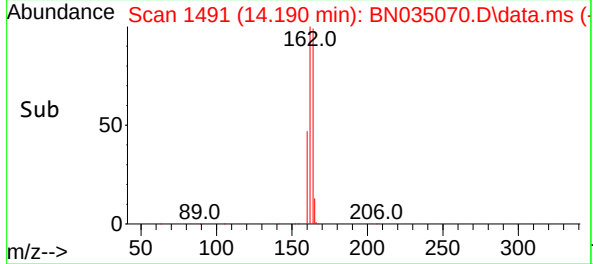
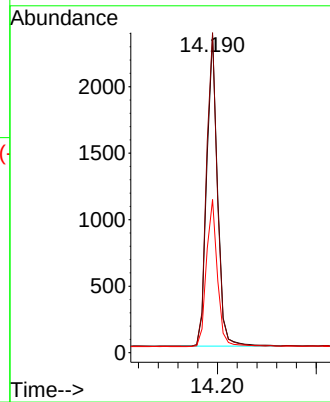
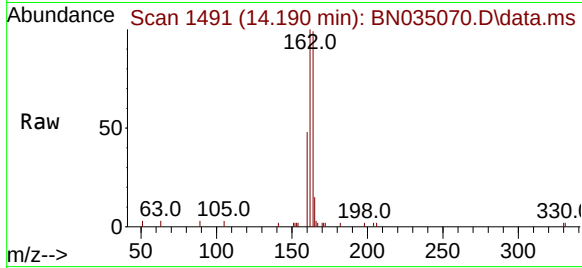




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1490
Delta R.T. 0.004 min
Lab File: BN035070.D
Acq: 13 Nov 2024 17:27

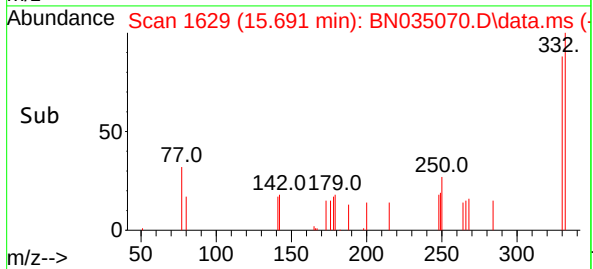
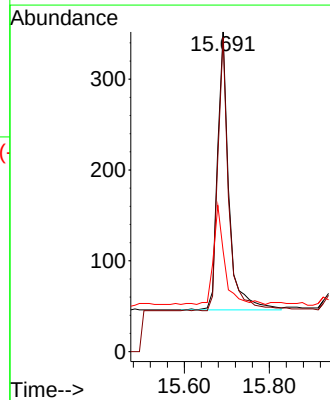
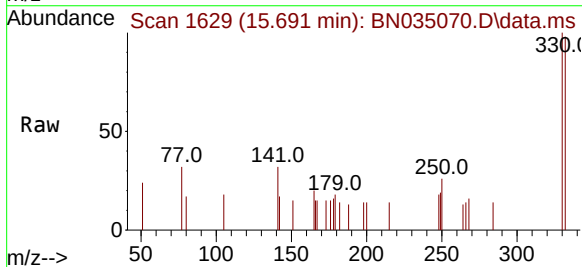
Instrument :
BNA_N
ClientSampleId :
PB164785BL

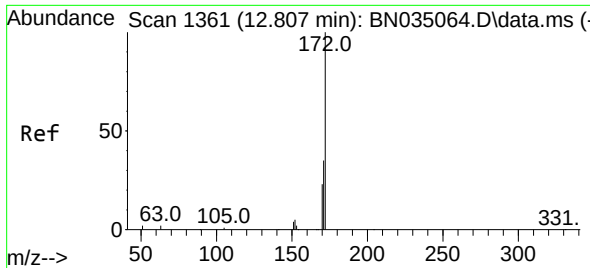
Tgt Ion:164 Resp: 3542
Ion Ratio Lower Upper
164 100
162 100.9 82.2 123.2
160 48.3 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.222 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035070.D
Acq: 13 Nov 2024 17:27

Tgt Ion:330 Resp: 566
Ion Ratio Lower Upper
330 100
332 94.7 76.9 115.3
141 34.8 29.6 44.4

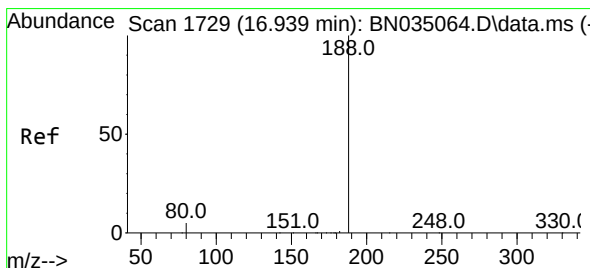
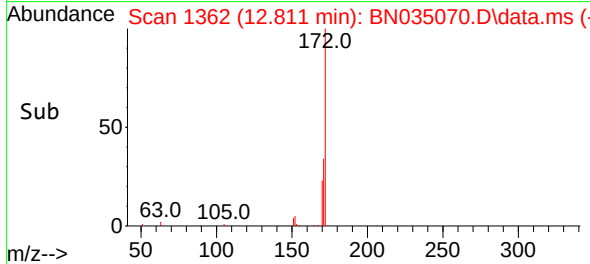
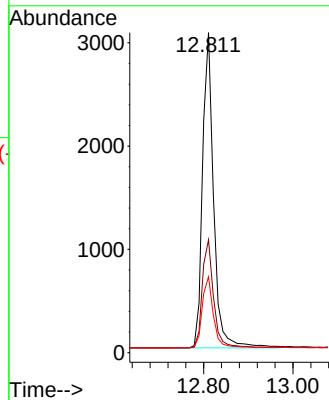
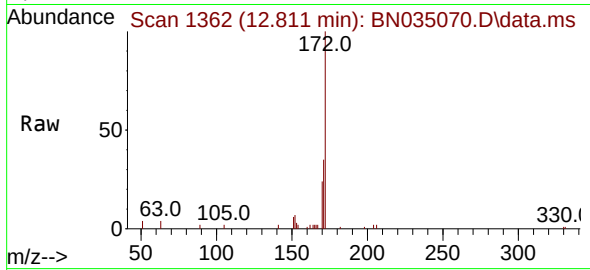




#15
2-Fluorobiphenyl
Concen: 0.366 ng
RT: 12.811 min Scan# 1361
Delta R.T. 0.004 min
Lab File: BN035070.D
Acq: 13 Nov 2024 17:27

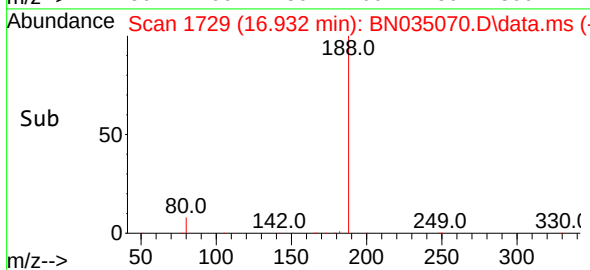
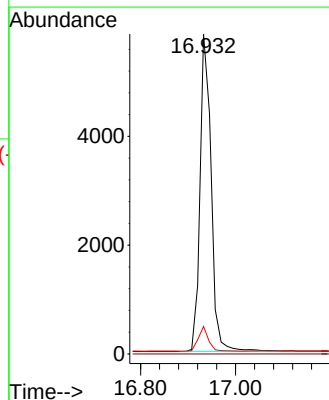
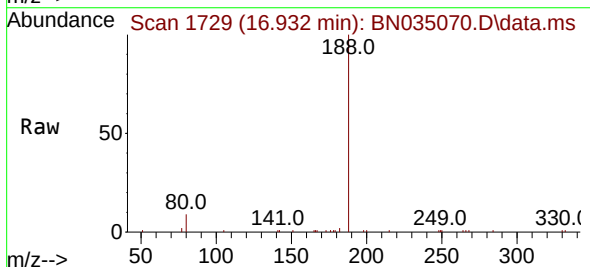
Instrument :
BNA_N
ClientSampleId :
PB164785BL

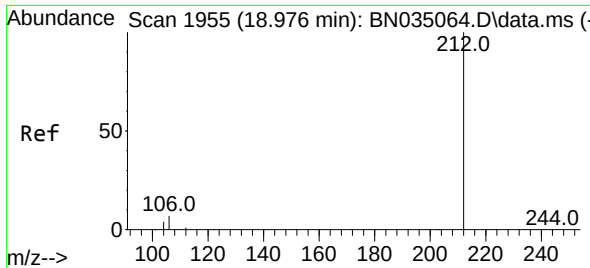
Tgt Ion:	172	Resp:	5272
Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.2	42.4
170	23.7	19.0	28.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.932 min Scan# 1729
Delta R.T. -0.007 min
Lab File: BN035070.D
Acq: 13 Nov 2024 17:27

Tgt Ion:	188	Resp:	9470
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	4.3	6.5

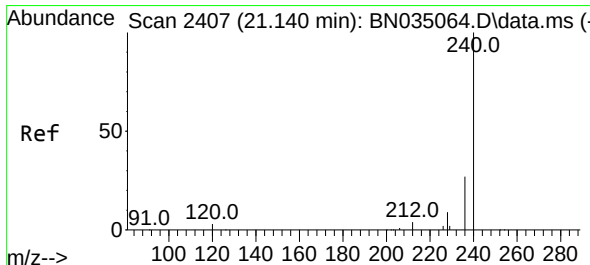
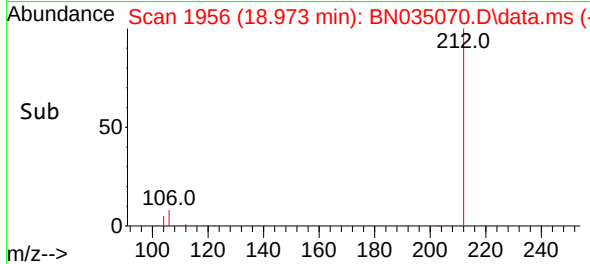
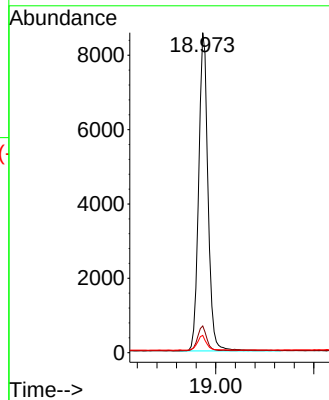
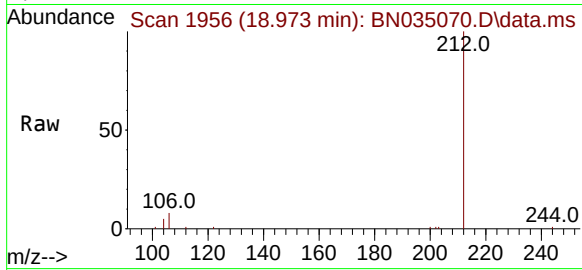




#27
Fluoranthene-d10
Concen: 0.387 ng
RT: 18.973 min Scan# 1956
Delta R.T. -0.002 min
Lab File: BN035070.D
Acq: 13 Nov 2024 17:27

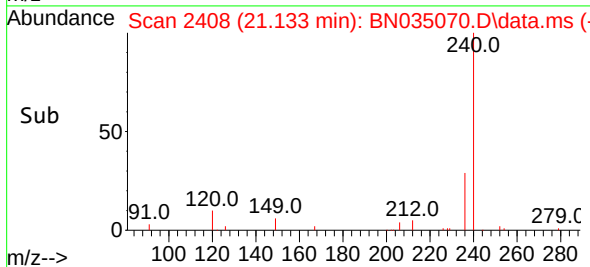
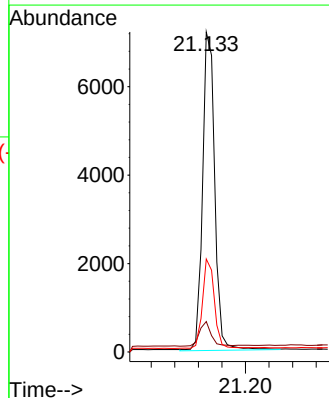
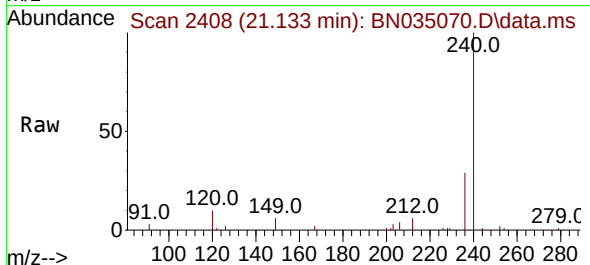
Instrument :
BNA_N
ClientSampleId :
PB164785BL

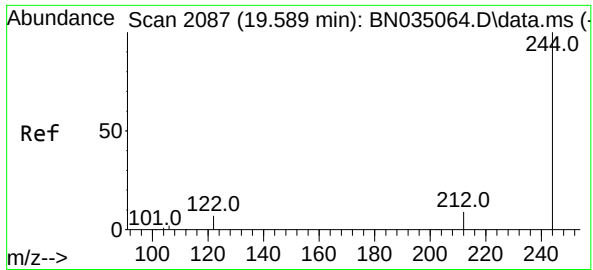
Tgt Ion:	212	Resp:	11241
Ion Ratio	Lower	Upper	
212	100		
106	7.6	6.0	9.0
104	4.5	3.5	5.3



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035070.D
Acq: 13 Nov 2024 17:27

Tgt Ion:	240	Resp:	10363
Ion Ratio	Lower	Upper	
240	100		
120	9.5	3.8	5.6
236	29.1	22.2	33.2

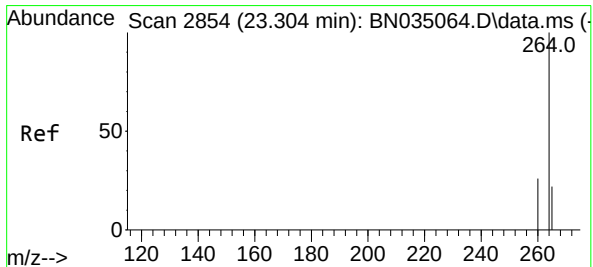
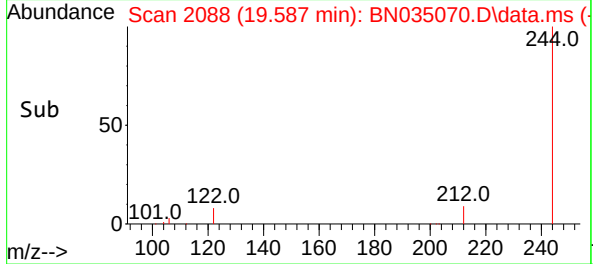
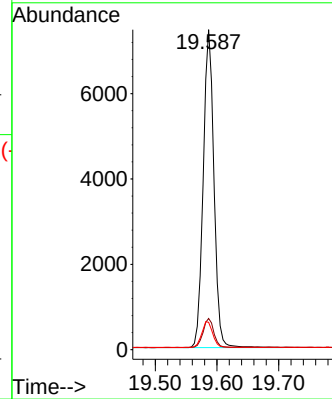
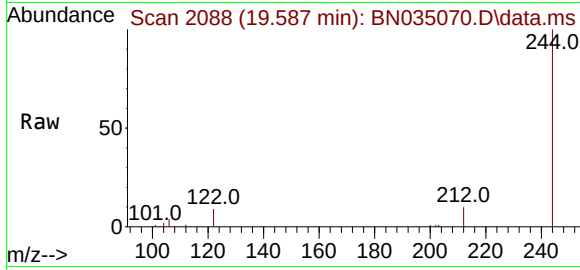




#31
Terphenyl-d14
Concen: 0.415 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035070.D
Acq: 13 Nov 2024 17:27

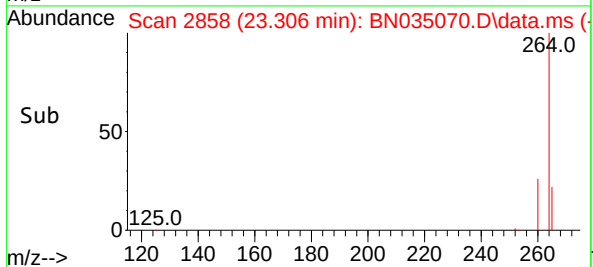
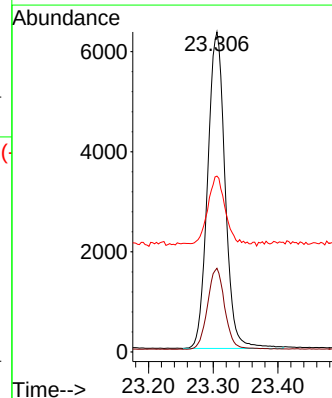
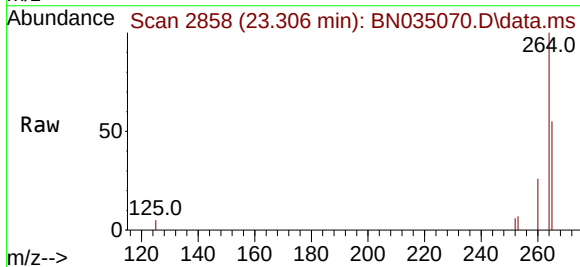
Instrument :
BNA_N
ClientSampleId :
PB164785BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.6	11.4
122	8.5	6.1	9.1



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.306 min Scan# 2858
Delta R.T. 0.002 min
Lab File: BN035070.D
Acq: 13 Nov 2024 17:27

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.2	20.9	31.3
265	55.0	35.4	53.2



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164785BS	SDG No.:	P4773
Lab Sample ID:	PB164785BS	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035071.D	1	11/08/24 11:30	11/13/24 18:03	PB164785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.33		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	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		101%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2140	7.553				
1146-65-2	Naphthalene-d8	5030	10.319				
15067-26-2	Acenaphthene-d10	3550	14.186				
1517-22-2	Phenanthrene-d10	9570	16.939				
1719-03-5	Chrysene-d12	9860	21.14				
1520-96-3	Perylene-d12	10100	23.304				

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\BN111324\
 Data File : BN035071.D
 Acq On : 13 Nov 2024 18:03
 Operator : RC/JU
 Sample : PB164785BS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164785BS

Quant Time: Nov 14 02:06:05 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 17:18:14 2024
 Response via : Initial Calibration

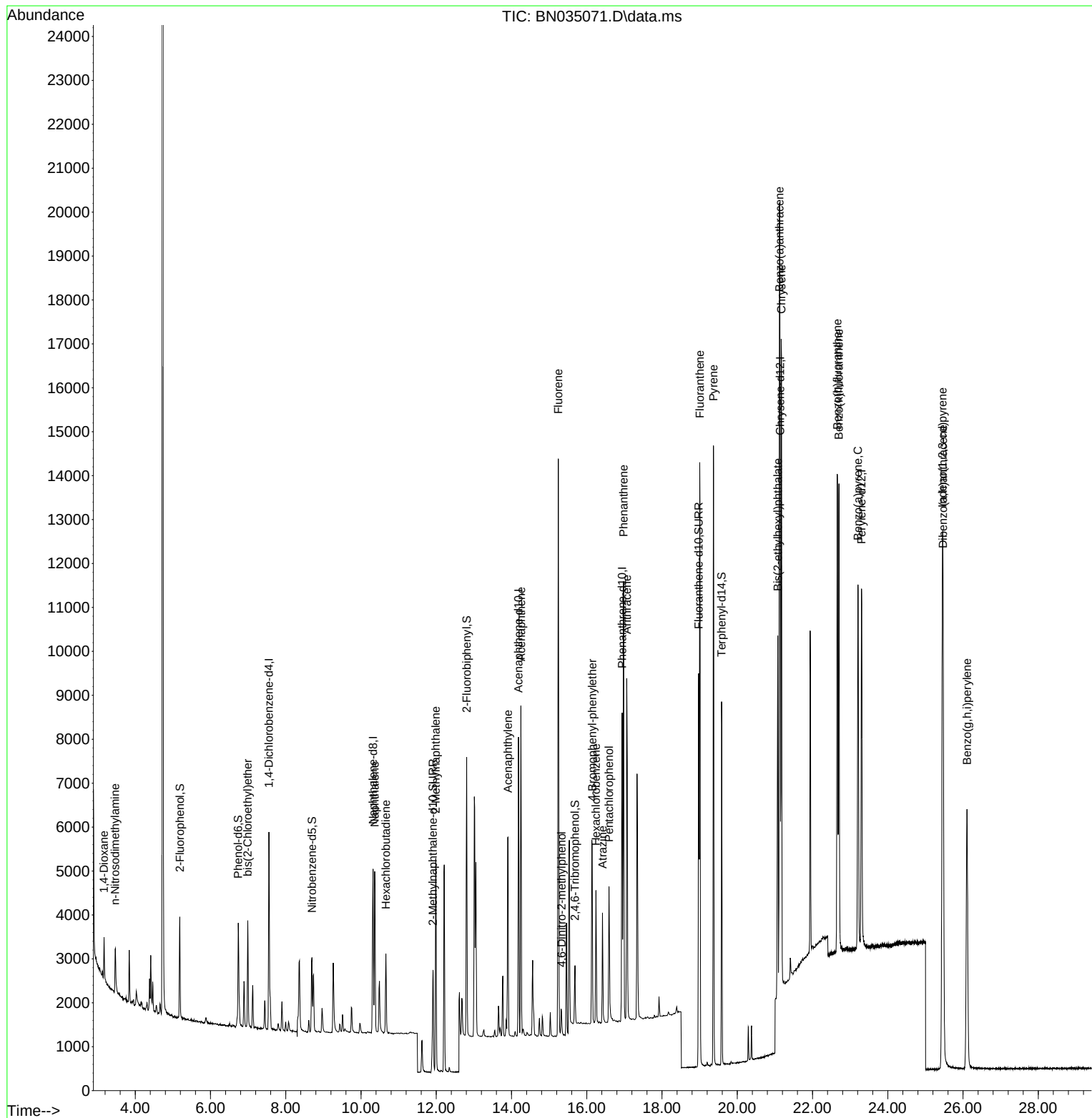
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2135	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	5031	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	3550	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	9574	0.400	ng	0.00
29) Chrysene-d12	21.140	240	9856	0.400	ng	# 0.00
35) Perylene-d12	23.304	264	10124	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.184	112	1835	0.339	ng	0.00
5) Phenol-d6	6.737	99	2286	0.336	ng	0.00
8) Nitrobenzene-d5	8.696	82	1574	0.359	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	3949	0.440	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	749	0.292	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	5331	0.370	ng	0.00
27) Fluoranthene-d10	18.976	212	10606	0.362	ng	0.00
31) Terphenyl-d14	19.584	244	8396	0.406	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.169	88	641	0.331	ng	# 63
3) n-Nitrosodimethylamine	3.466	42	646	0.357	ng	# 89
6) bis(2-Chloroethyl)ether	6.990	93	1861	0.365	ng	100
9) Naphthalene	10.362	128	4767	0.363	ng	99
10) Hexachlorobutadiene	10.661	225	1410	0.366	ng	# 100
12) 2-Methylnaphthalene	11.988	142	3402	0.351	ng	98
16) Acenaphthylene	13.908	152	5574	0.367	ng	99
17) Acenaphthene	14.250	154	3556	0.358	ng	99
18) Fluorene	15.245	166	5198	0.355	ng	100
20) 4,6-Dinitro-2-methylph...	15.330	198	652	0.327	ng	# 88
21) 4-Bromophenyl-phenylether	16.145	248	2176	0.357	ng	99
22) Hexachlorobenzene	16.244	284	2204	0.348	ng	99
23) Atrazine	16.418	200	1955	0.357	ng	99
24) Pentachlorophenol	16.592	266	1586	0.536	ng	99
25) Phenanthrene	16.977	178	9514	0.378	ng	100
26) Anthracene	17.064	178	8859	0.383	ng	99
28) Fluoranthene	19.004	202	12433	0.359	ng	100
30) Pyrene	19.366	202	12859	0.392	ng	100
32) Benzo(a)anthracene	21.122	228	12519	0.365	ng	99
33) Chrysene	21.176	228	13127	0.386	ng	99
34) Bis(2-ethylhexyl)phtha...	21.077	149	5394	0.300	ng	100
36) Indeno(1,2,3-cd)pyrene	25.453	276	15283	0.378	ng	100
37) Benzo(b)fluoranthene	22.657	252	13282	0.390	ng	97
38) Benzo(k)fluoranthene	22.701	252	13024	0.382	ng	98
39) Benzo(a)pyrene	23.207	252	11853	0.395	ng	98
40) Dibenzo(a,h)anthracene	25.470	278	12176	0.381	ng	97
41) Benzo(g,h,i)perylene	26.104	276	12020	0.353	ng	99

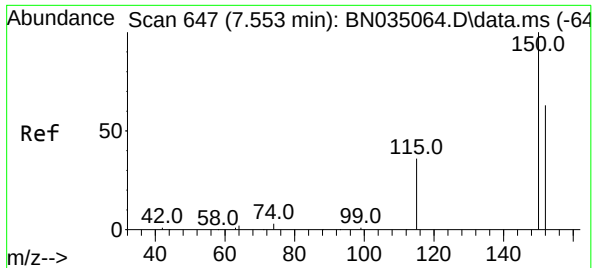
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035071.D
Acq On : 13 Nov 2024 18:03
Operator : RC/JU
Sample : PB164785BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164785BS

Quant Time: Nov 14 02:06:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration

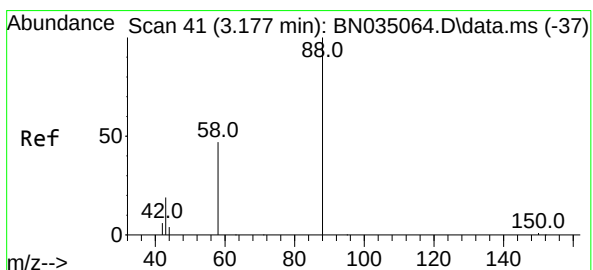
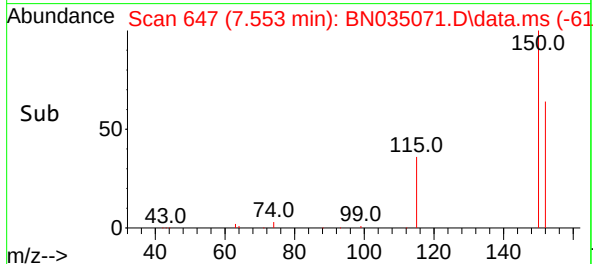
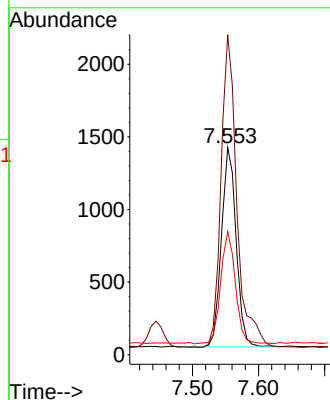
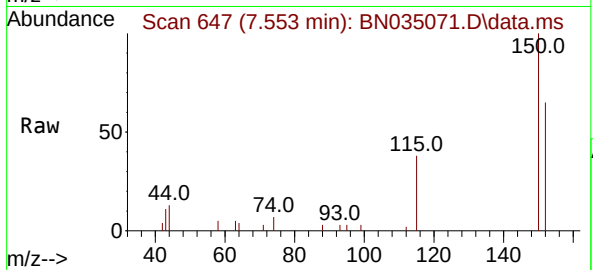




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

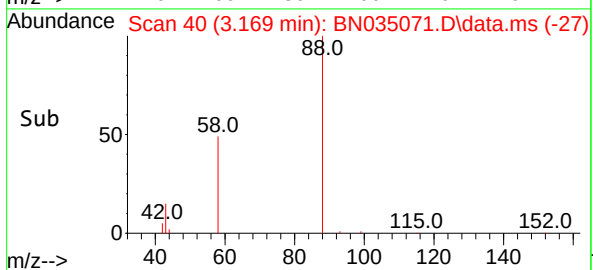
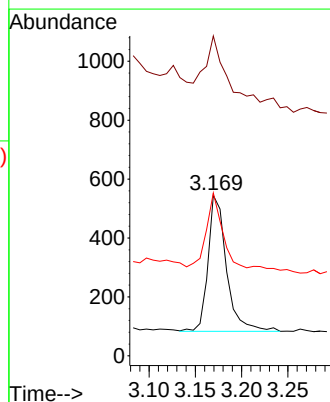
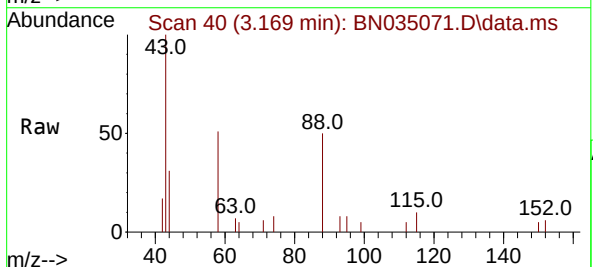
Instrument :
BNA_N
ClientSampleId :
PB164785BS

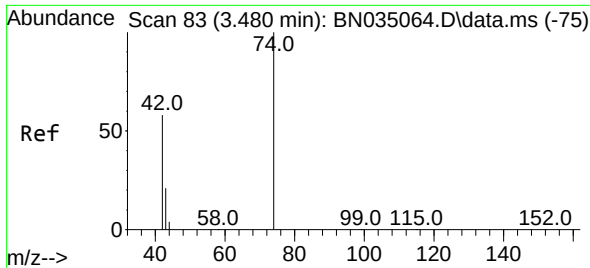
Tgt Ion:152 Resp: 2135
Ion Ratio Lower Upper
152 100
150 154.6 124.5 186.7
115 59.4 47.8 71.6



#2
1,4-Dioxane
Concen: 0.331 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion: 88 Resp: 641
Ion Ratio Lower Upper
88 100
43 70.2 16.9 25.3#
58 53.8 39.0 58.4

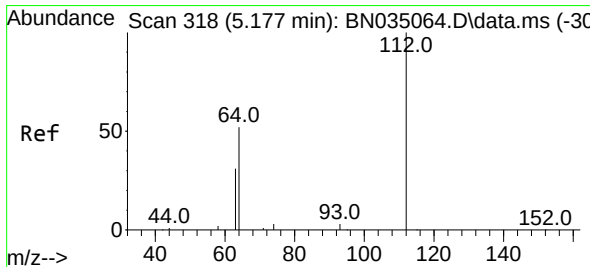
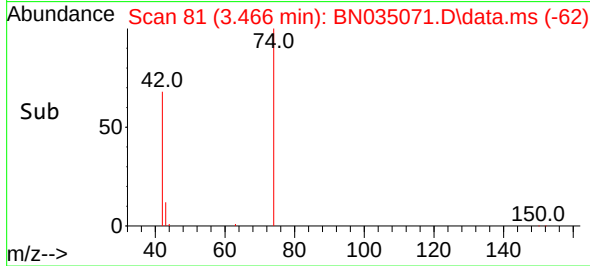
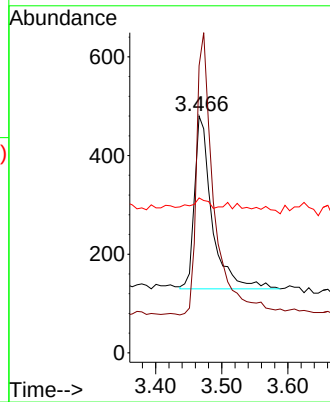
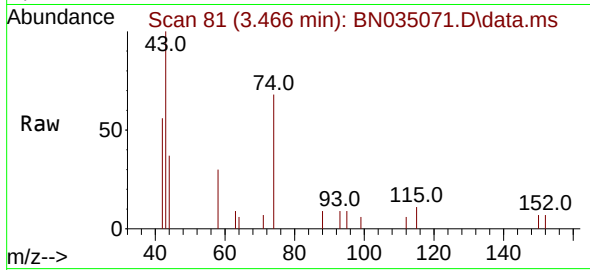




#3
n-Nitrosodimethylamine
Concen: 0.357 ng
RT: 3.466 min Scan# 81
Delta R.T. -0.014 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

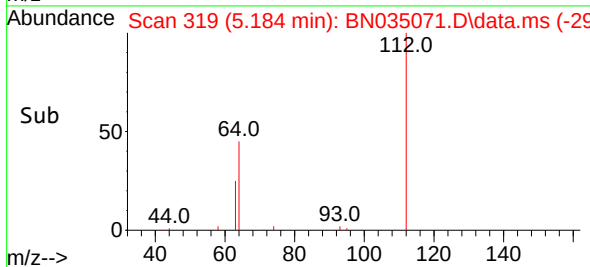
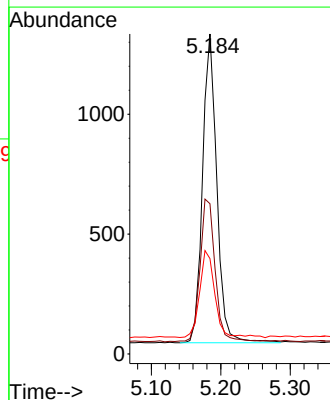
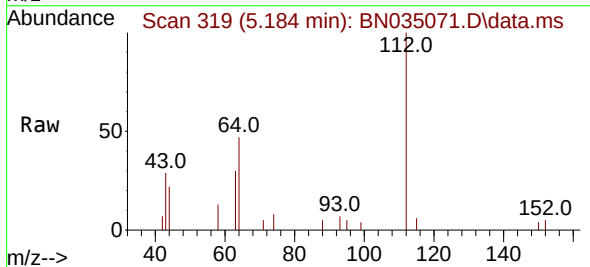
Instrument :
BNA_N
ClientSampleId :
PB164785BS

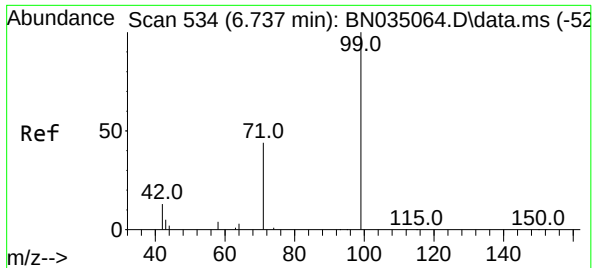
Tgt Ion: 42 Resp: 646
Ion Ratio Lower Upper
42 100
74 164.6 120.8 181.2
44 6.0 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.339 ng
RT: 5.184 min Scan# 319
Delta R.T. 0.007 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion: 112 Resp: 1835
Ion Ratio Lower Upper
112 100
64 48.7 39.7 59.5
63 29.1 23.0 34.4

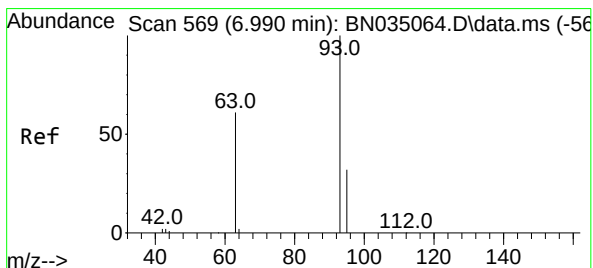
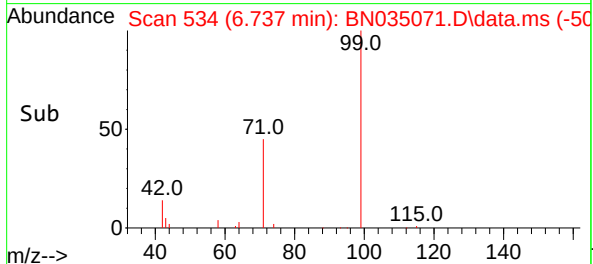
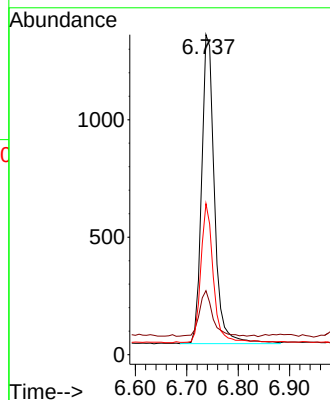
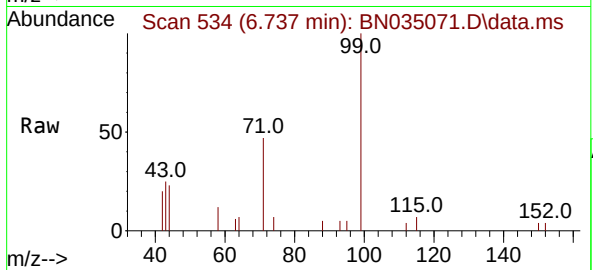




#5
Phenol-d6
Concen: 0.336 ng
RT: 6.737 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

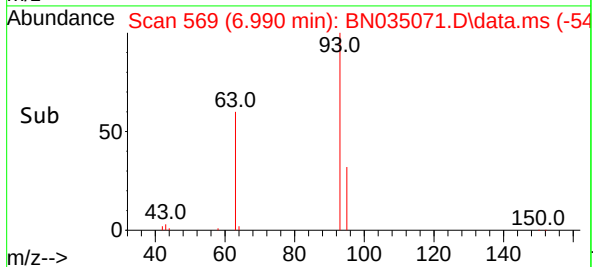
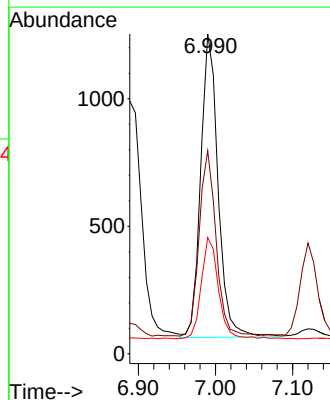
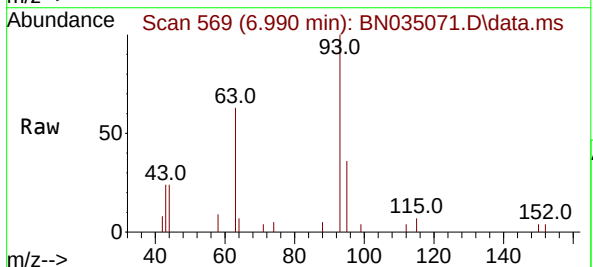
Instrument :
BNA_N
ClientSampleId :
PB164785BS

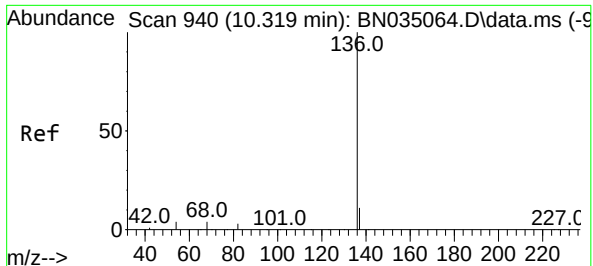
Tgt Ion: 99 Resp: 2286
Ion Ratio Lower Upper
99 100
42 14.9 11.4 17.0
71 43.2 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.365 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion: 93 Resp: 1861
Ion Ratio Lower Upper
93 100
63 58.9 47.4 71.2
95 33.1 26.2 39.4

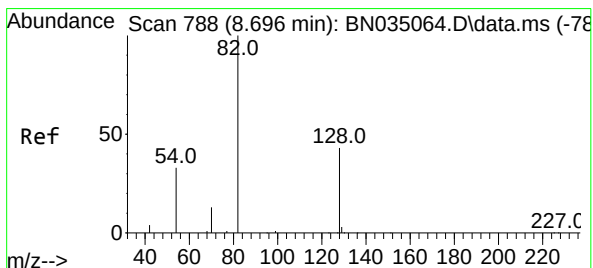
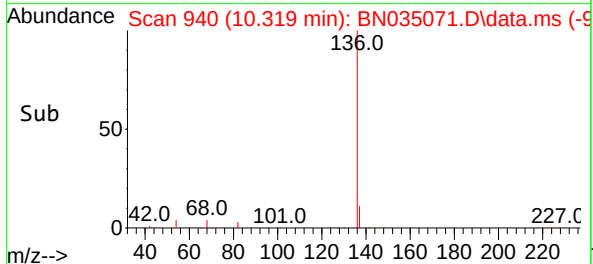
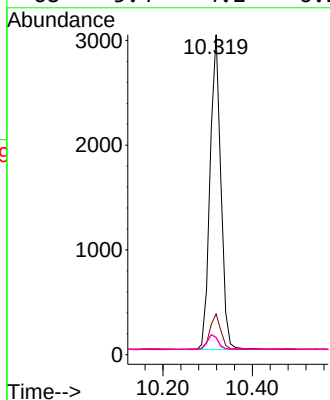
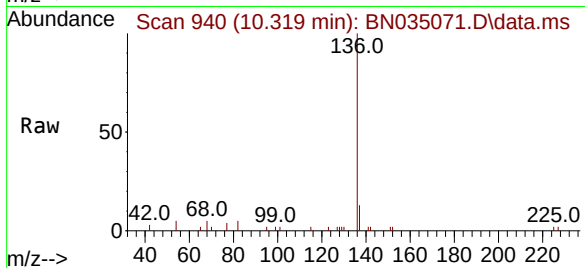




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

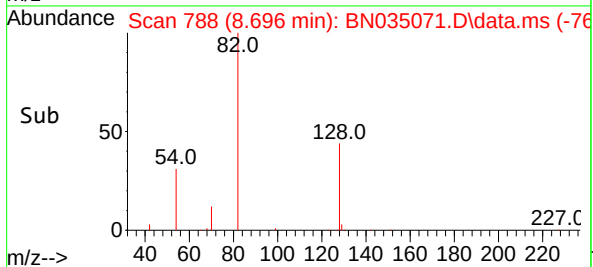
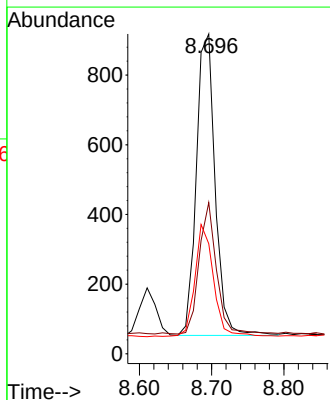
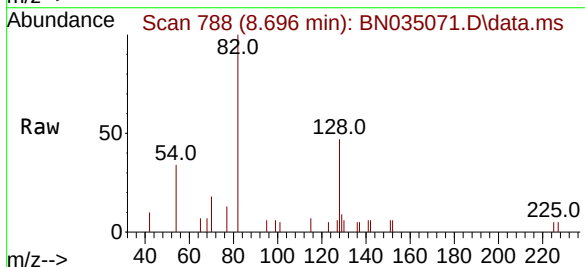
Instrument :
BNA_N
ClientSampleId :
PB164785BS

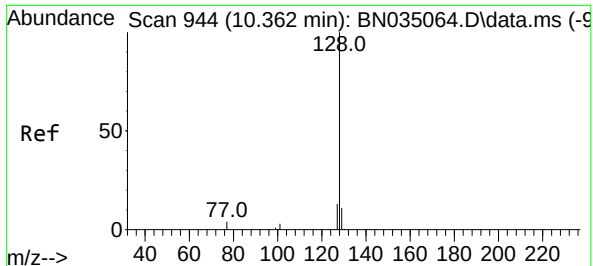
Tgt Ion:	136	Resp:	5031
Ion	Ratio	Lower	Upper
136	100		
137	12.7	9.8	14.8
54	5.3	4.0	6.0
68	5.4	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion:	82	Resp:	1574
Ion	Ratio	Lower	Upper
82	100		
128	47.3	36.5	54.7
54	34.4	28.7	43.1

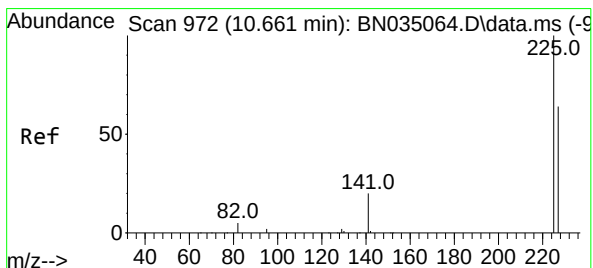
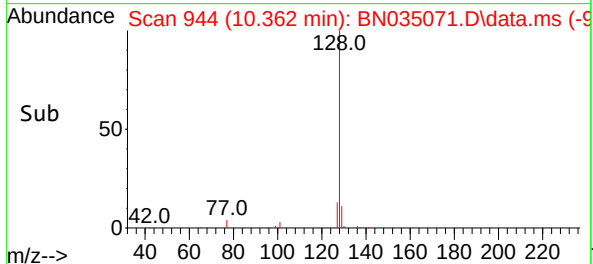
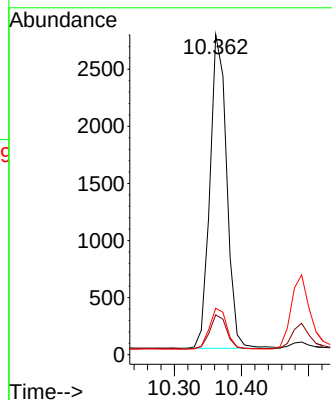
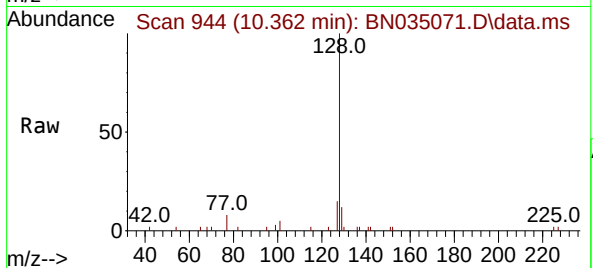




#9
Naphthalene
Concen: 0.363 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

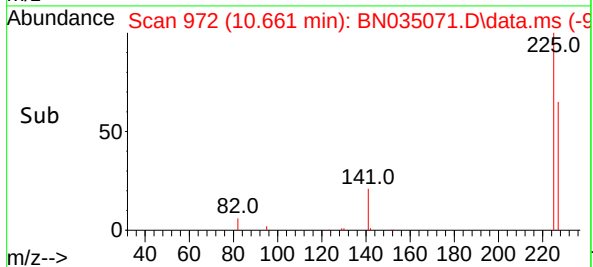
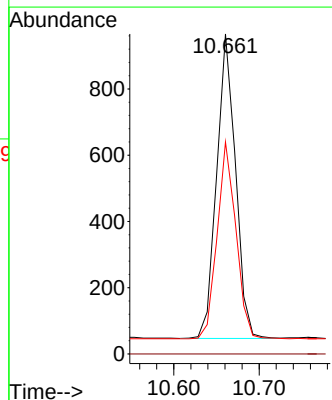
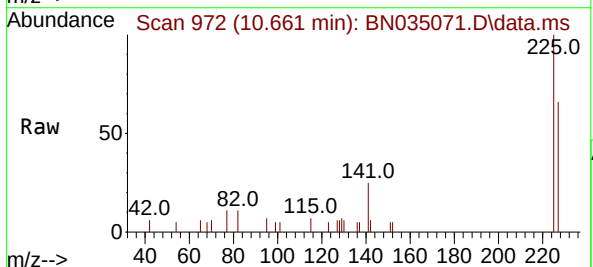
Instrument :
BNA_N
ClientSampleId :
PB164785BS

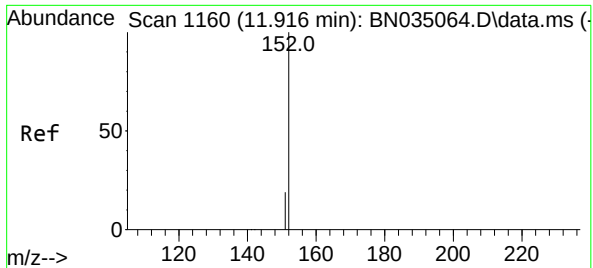
Tgt Ion:	128	Resp:	4767
Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.6	14.4
127	14.5	11.6	17.4



#10
Hexachlorobutadiene
Concen: 0.366 ng
RT: 10.661 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion:	225	Resp:	1410
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.5	77.3

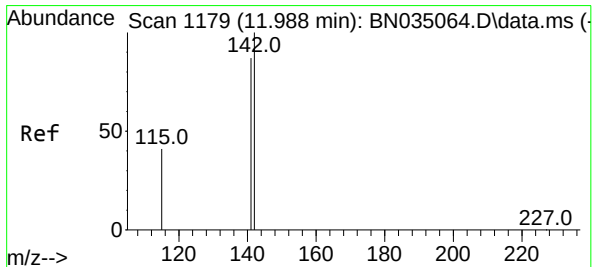
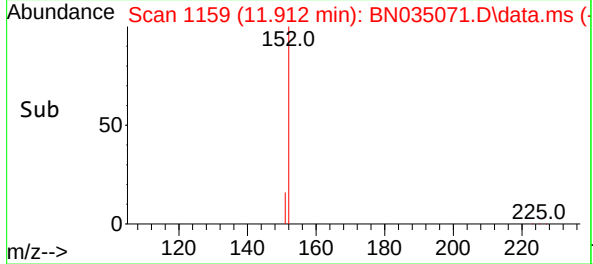
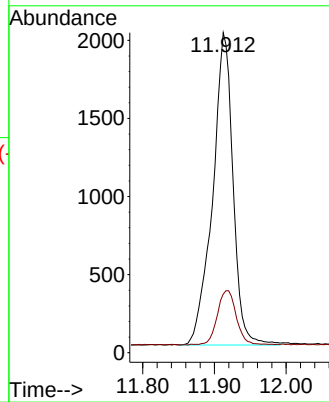
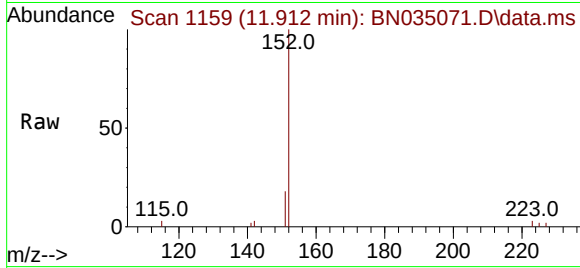




#11
2-Methylnaphthalene-d10
Concen: 0.440 ng
RT: 11.912 min Scan# 1160
Delta R.T. -0.004 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

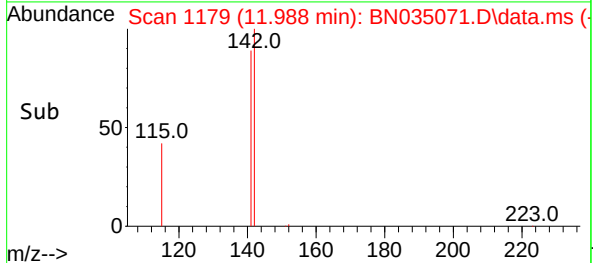
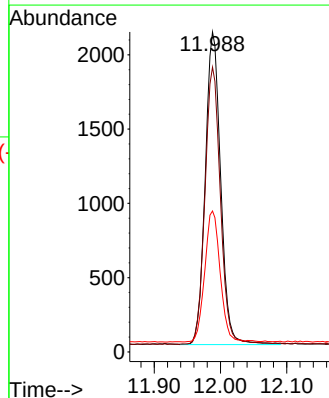
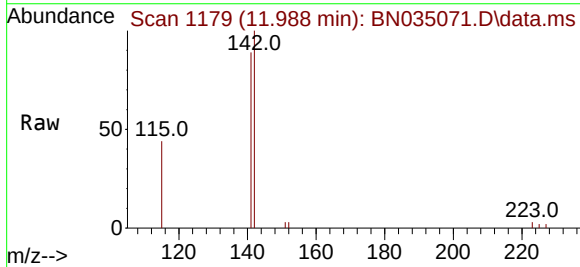
Instrument :
BNA_N
ClientSampleId :
PB164785BS

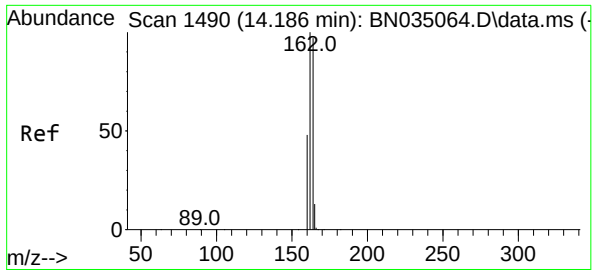
Tgt Ion:152 Resp: 3949
Ion Ratio Lower Upper
152 100
151 16.1 16.2 24.4#



#12
2-Methylnaphthalene
Concen: 0.351 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion:142 Resp: 3402
Ion Ratio Lower Upper
142 100
141 89.0 70.1 105.1
115 44.1 34.4 51.6

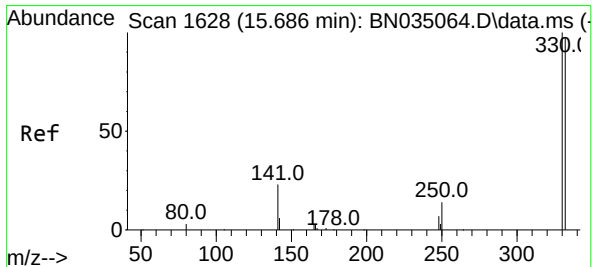
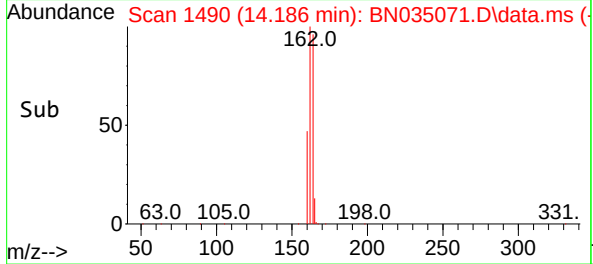
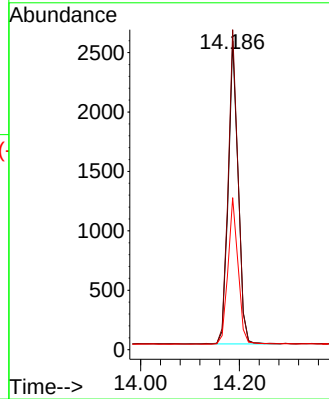
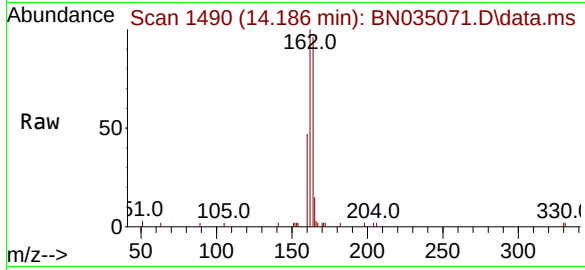




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

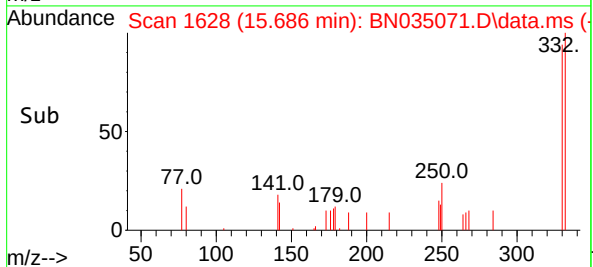
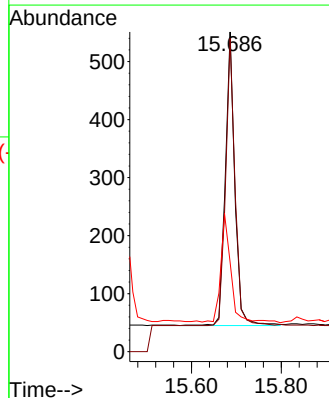
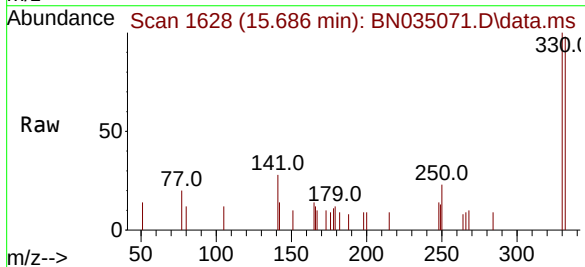
Instrument :
BNA_N
ClientSampleId :
PB164785BS

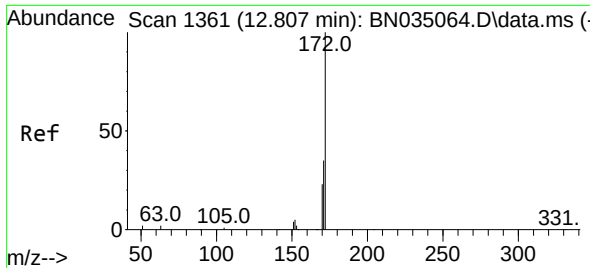
Tgt Ion:164 Resp: 3550
Ion Ratio Lower Upper
164 100
162 103.7 82.2 123.2
160 49.2 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.292 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion:330 Resp: 749
Ion Ratio Lower Upper
330 100
332 96.8 76.9 115.3
141 39.7 29.6 44.4

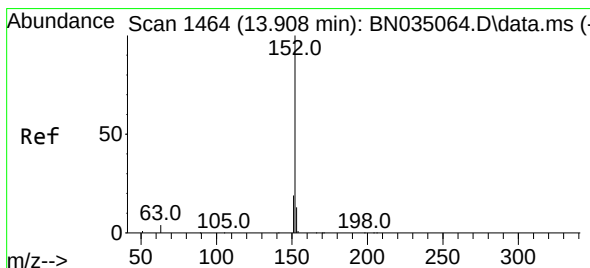
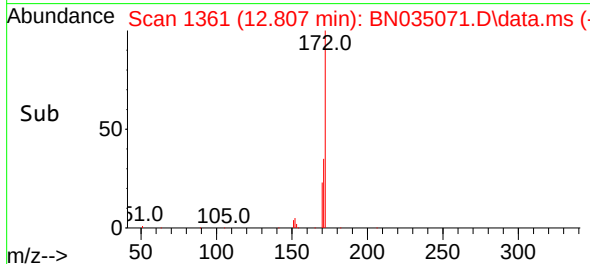
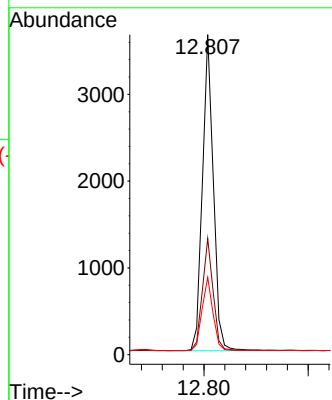
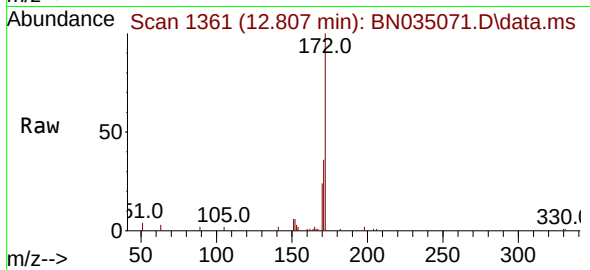




#15
2-Fluorobiphenyl
Concen: 0.370 ng
RT: 12.807 min Scan# 1361
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

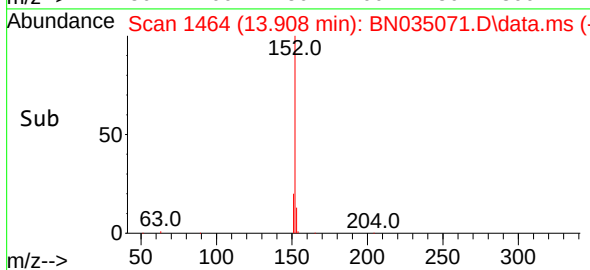
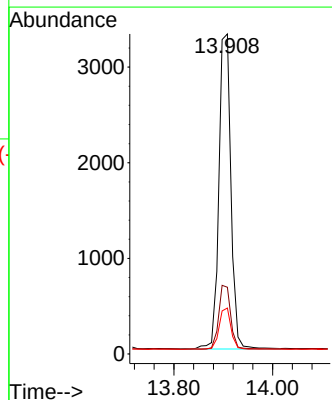
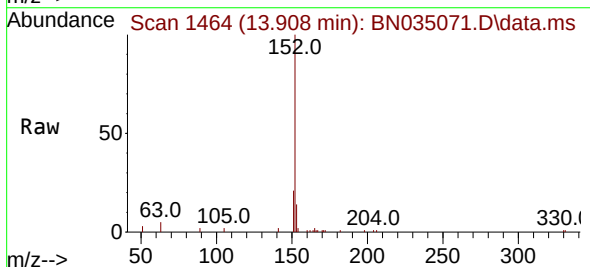
Instrument :
BNA_N
ClientSampleId :
PB164785BS

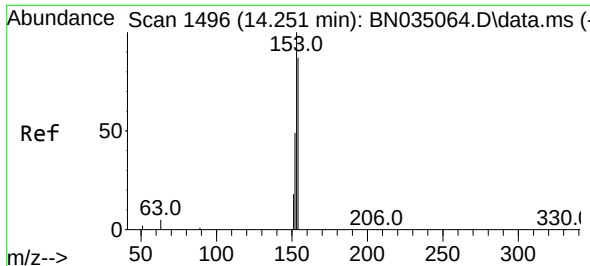
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.2	42.4
170	24.1	19.0	28.6



#16
Acenaphthylene
Concen: 0.367 ng
RT: 13.908 min Scan# 1464
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	13.1	10.2	15.4

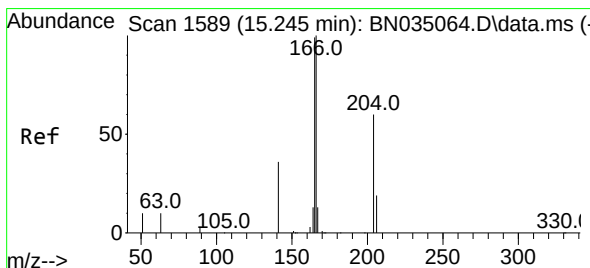
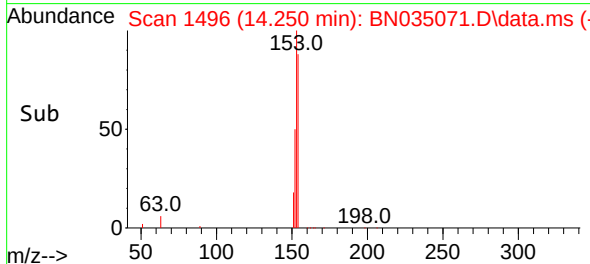
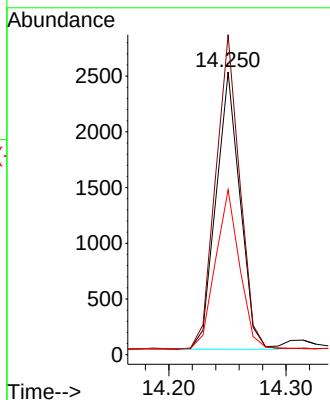
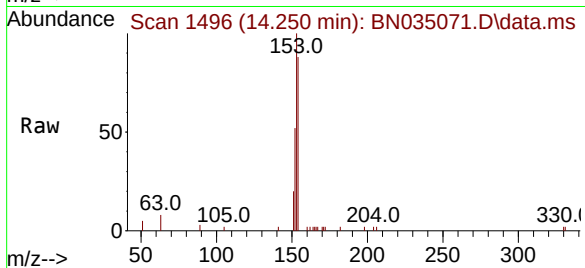




#17
Acenaphthene
Concen: 0.358 ng
RT: 14.250 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

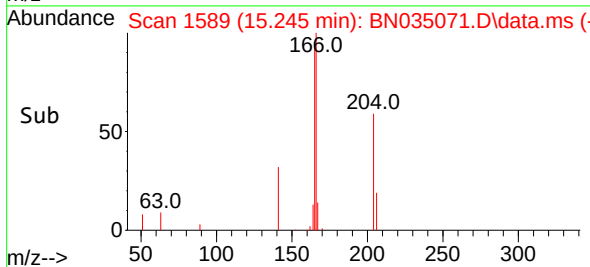
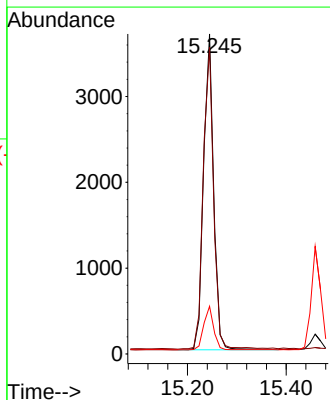
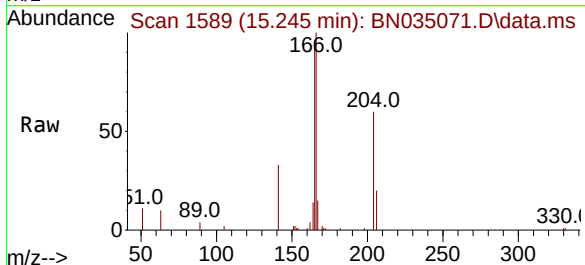
Instrument :
BNA_N
ClientSampleId :
PB164785BS

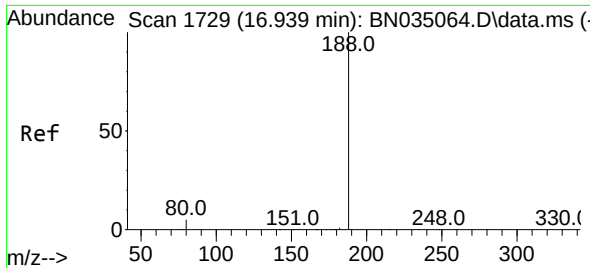
Tgt Ion:154 Resp: 3556
Ion Ratio Lower Upper
154 100
153 113.6 91.6 137.4
152 57.5 45.8 68.6



#18
Fluorene
Concen: 0.355 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion:166 Resp: 5198
Ion Ratio Lower Upper
166 100
165 99.0 79.1 118.7
167 13.5 10.6 16.0

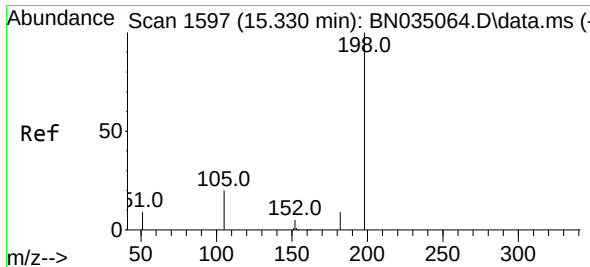
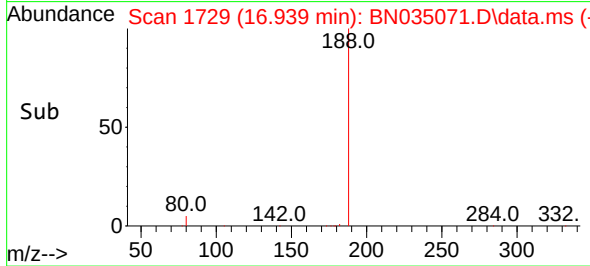
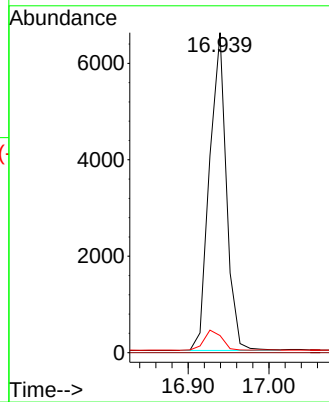
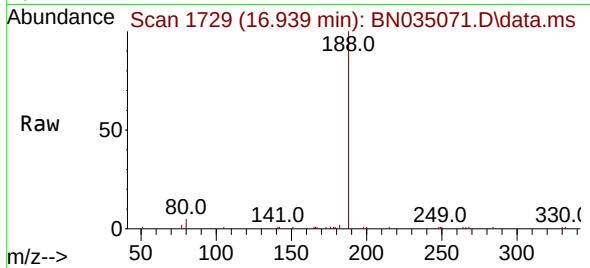




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.939 min Scan# 1729
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

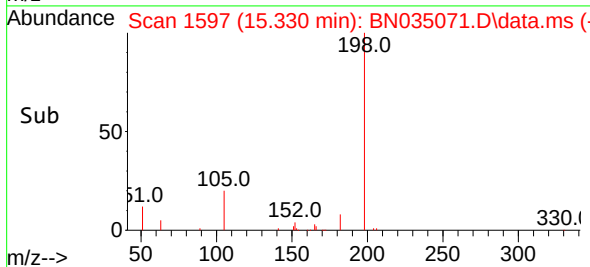
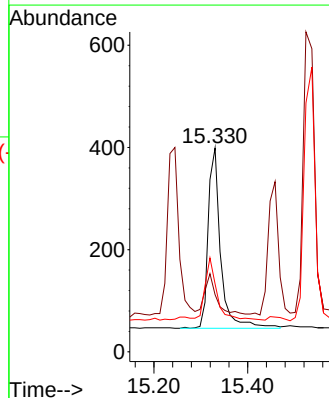
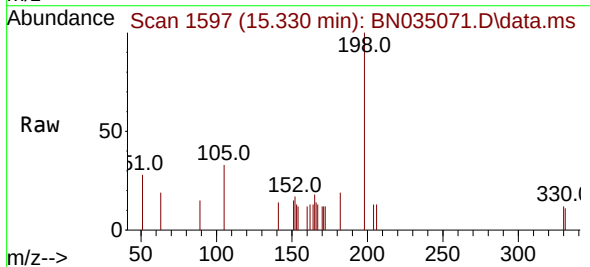
Instrument :
BNA_N
ClientSampleId :
PB164785BS

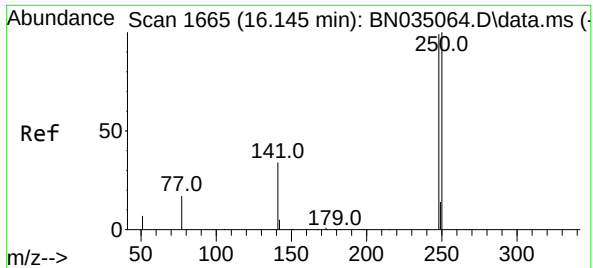
Tgt Ion	188	Resp	9574
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	5.3	4.3	6.5



#20
4,6-Dinitro-2-methylphenol
Concen: 0.327 ng
RT: 15.330 min Scan# 1597
Delta R.T. 0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion	198	Resp	652
Ion Ratio	Lower	Upper	
198	100		
51	28.1	29.9	44.9
105	33.3	23.7	35.5

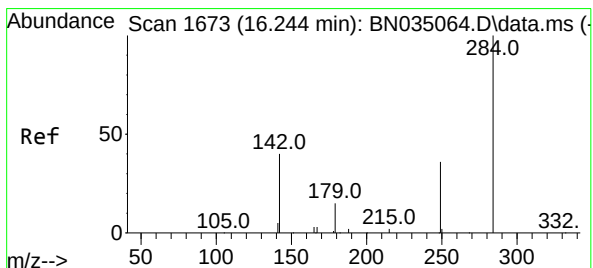
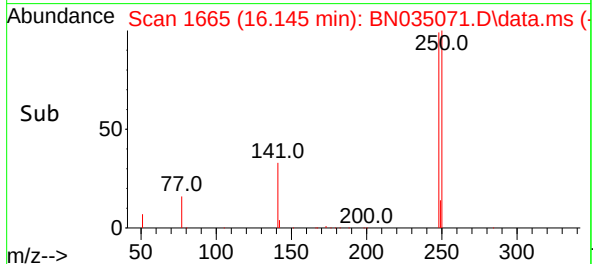
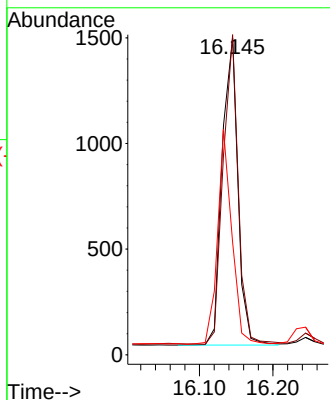
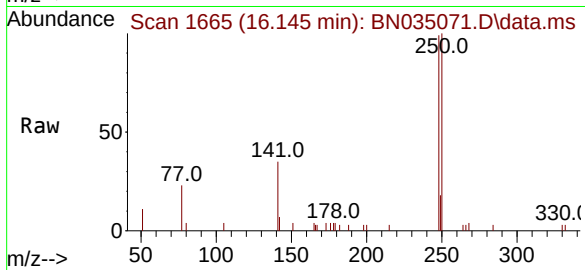




#21
4-Bromophenyl-phenylether
Concen: 0.357 ng
RT: 16.145 min Scan# 1665
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

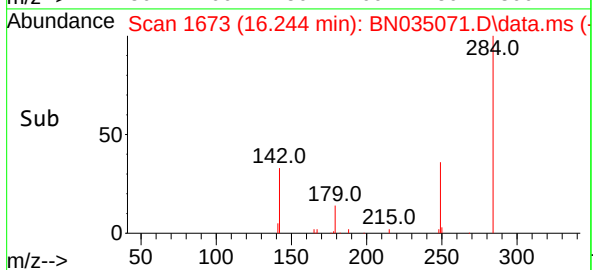
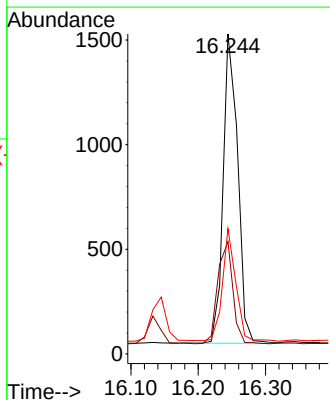
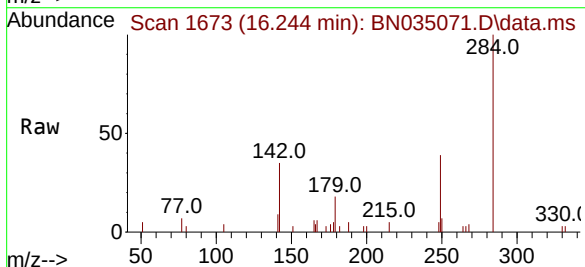
Instrument :
BNA_N
ClientSampleId :
PB164785BS

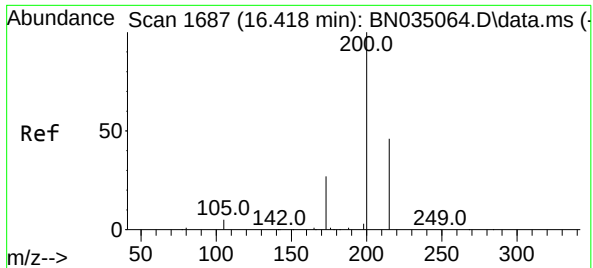
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.0	81.2	121.8
141	35.5	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.348 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.5	28.2	42.4
249	33.6	26.2	39.2

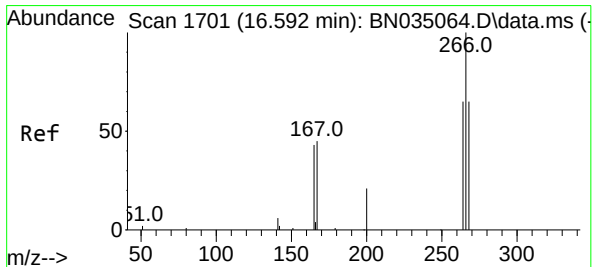
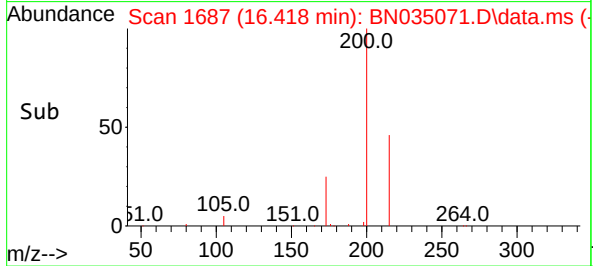
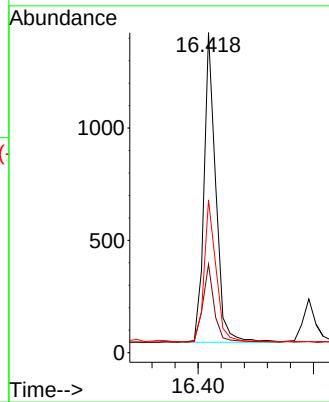
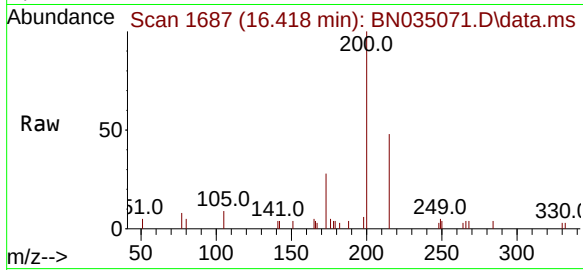




#23
Atrazine
Concen: 0.357 ng
RT: 16.418 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

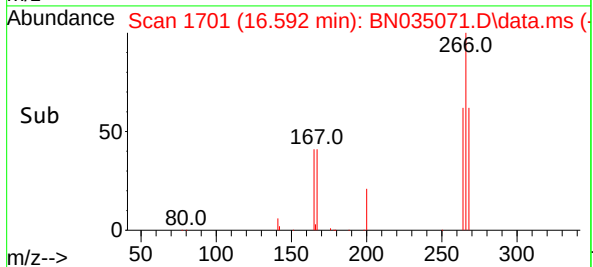
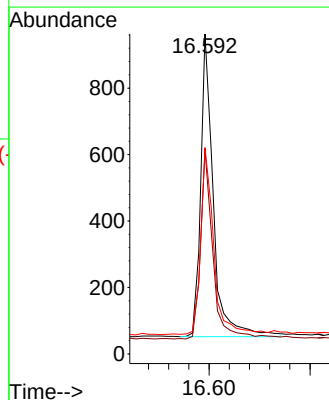
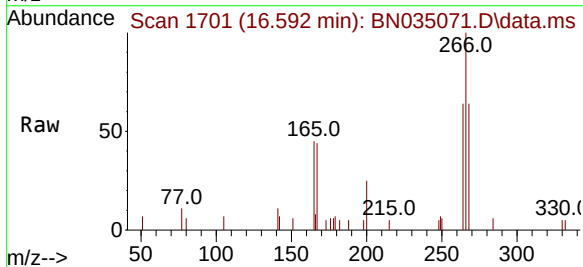
Instrument :
BNA_N
ClientSampleId :
PB164785BS

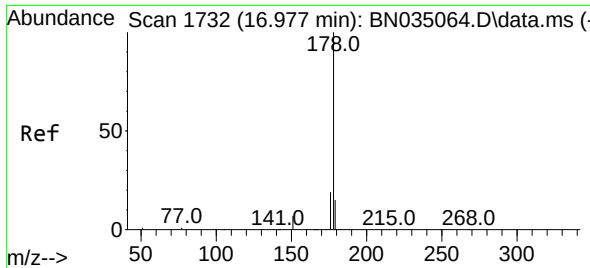
Tgt Ion:	200	Resp:	1955
Ion Ratio	Lower	Upper	
200	100		
173	27.6	22.6	33.8
215	47.7	37.8	56.6



#24
Pentachlorophenol
Concen: 0.536 ng
RT: 16.592 min Scan# 1701
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion:	266	Resp:	1586
Ion Ratio	Lower	Upper	
266	100		
264	61.9	49.4	74.0
268	63.9	52.6	79.0

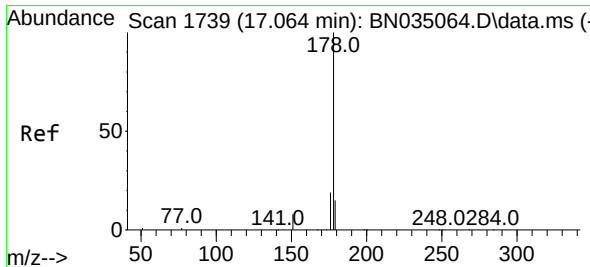
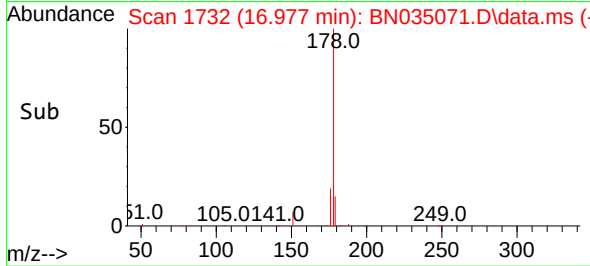
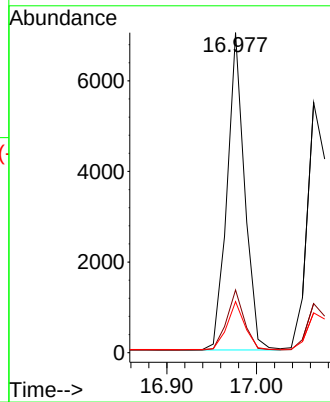
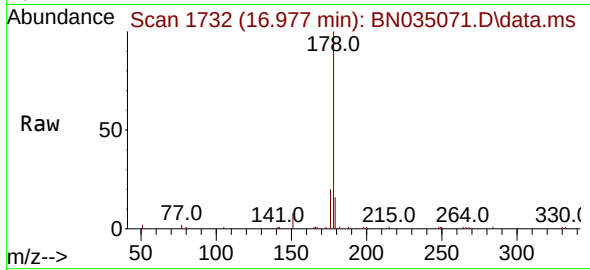




#25
Phenanthrene
Concen: 0.378 ng
RT: 16.977 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

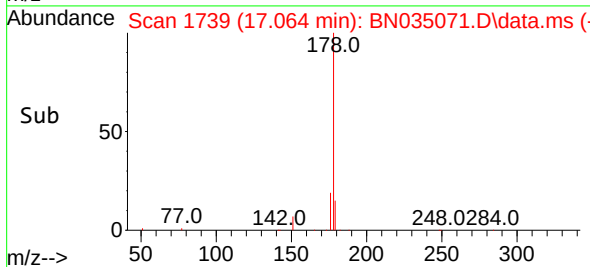
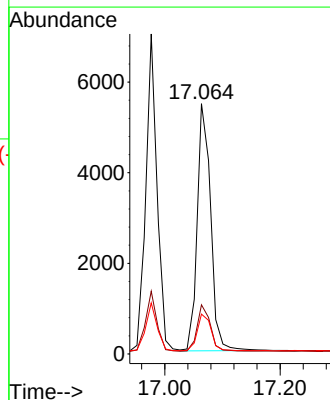
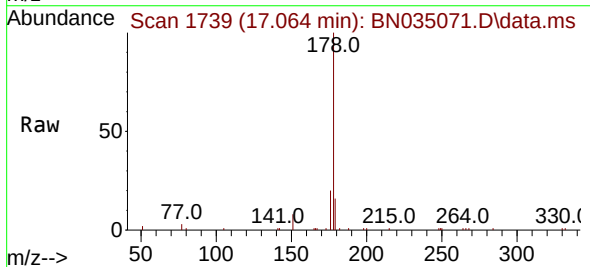
Instrument :
BNA_N
ClientSampleId :
PB164785BS

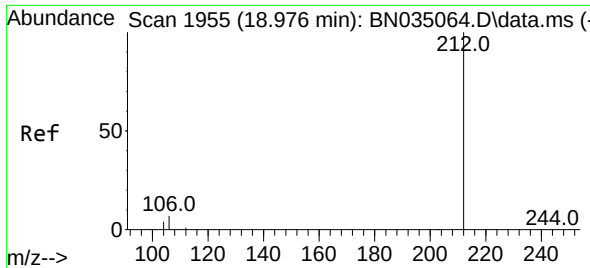
Tgt Ion:178 Resp: 9514
Ion Ratio Lower Upper
178 100
176 19.1 15.2 22.8
179 15.3 12.6 18.8



#26
Anthracene
Concen: 0.383 ng
RT: 17.064 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion:178 Resp: 8859
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.7 12.2 18.2

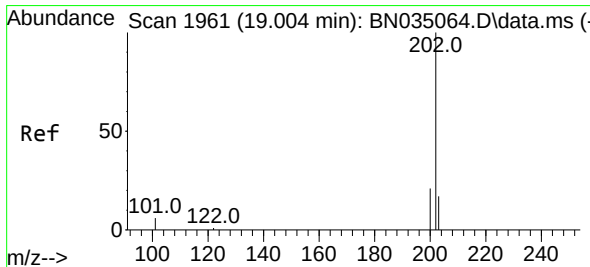
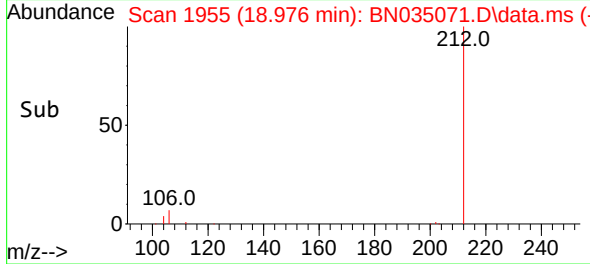
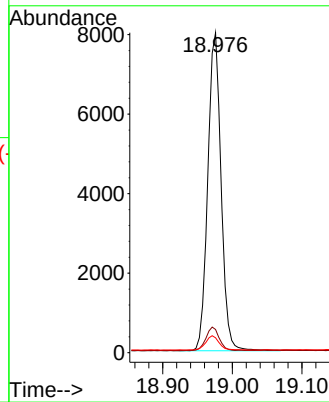
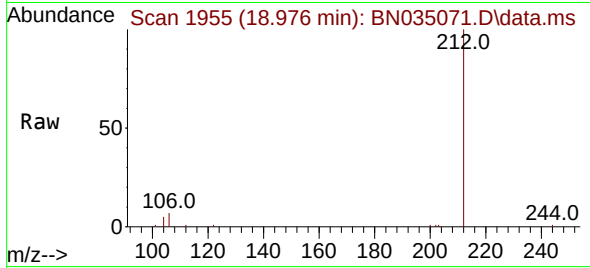




#27
Fluoranthene-d10
Concen: 0.362 ng
RT: 18.976 min Scan# 1955
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

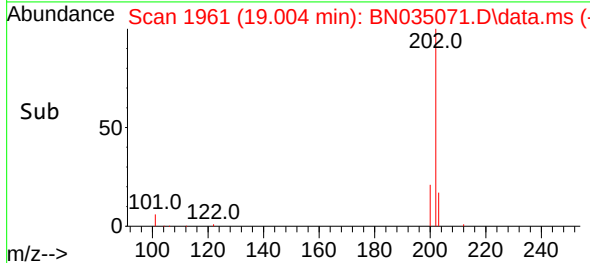
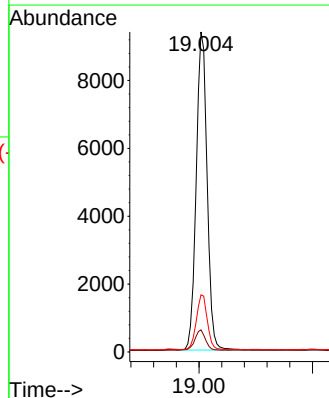
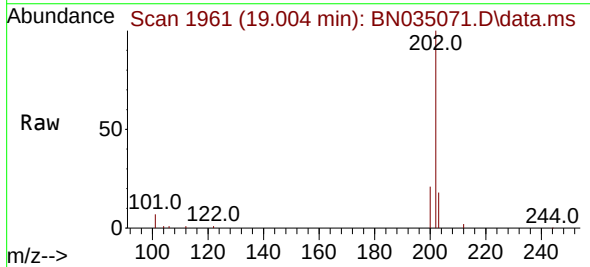
Instrument :
BNA_N
ClientSampleId :
PB164785BS

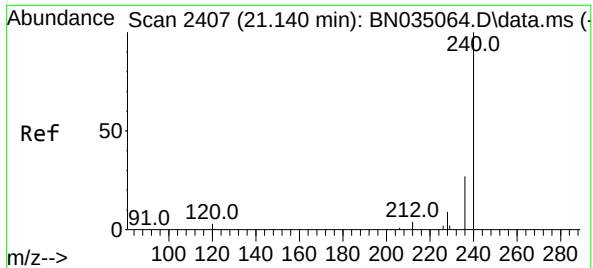
Tgt Ion:	212	Resp:	10606
Ion Ratio	Lower	Upper	
212	100		
106	7.5	6.0	9.0
104	4.5	3.5	5.3



#28
Fluoranthene
Concen: 0.359 ng
RT: 19.004 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion:	202	Resp:	12433
Ion Ratio	Lower	Upper	
202	100		
101	6.3	5.2	7.8
203	17.3	13.8	20.8

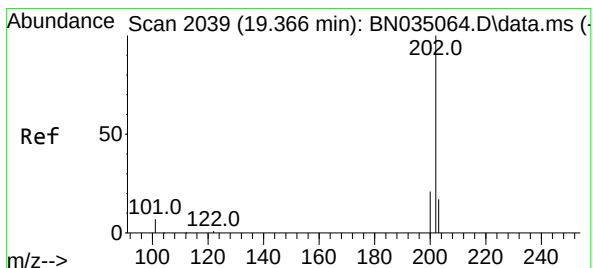
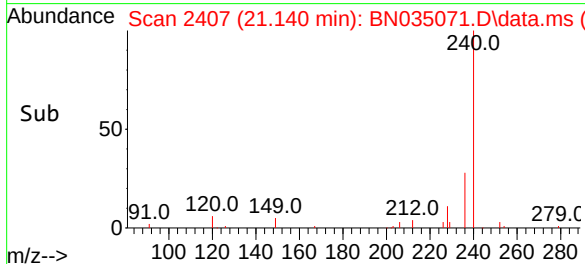
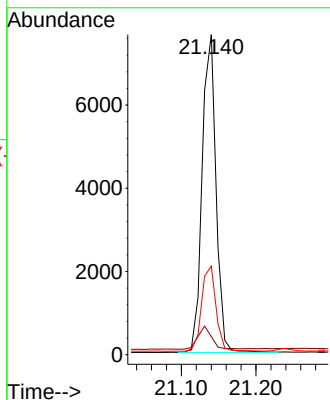
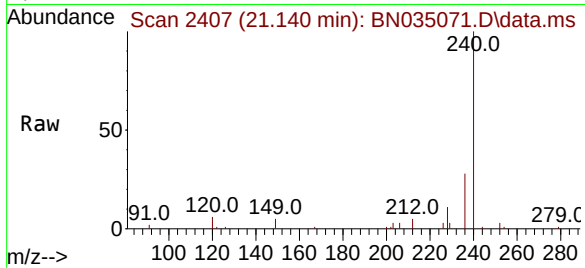




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.140 min Scan# 2407
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

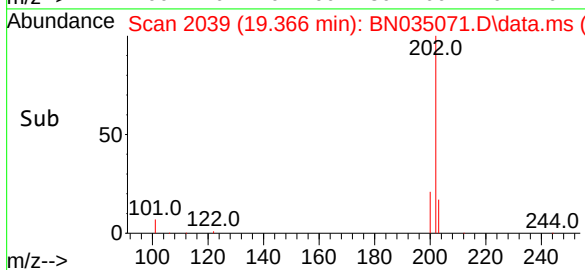
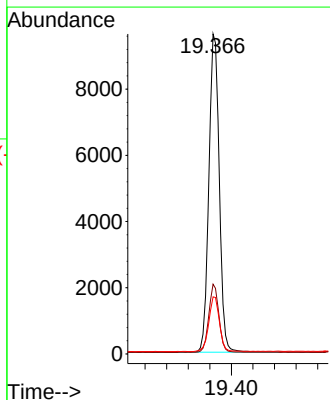
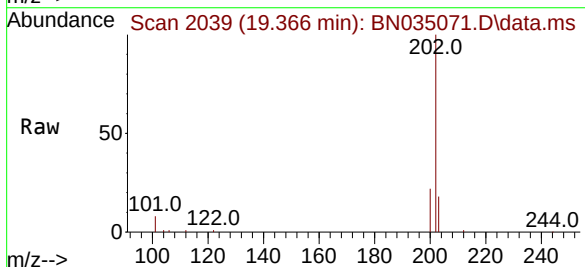
Instrument :
BNA_N
ClientSampleId :
PB164785BS

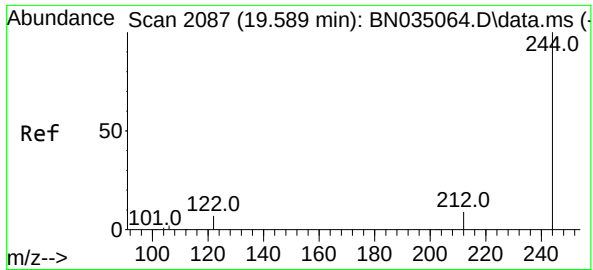
Tgt Ion	Ratio	Lower	Upper
240	100		
120	5.7	3.8	5.6#
236	27.7	22.2	33.2



#30
Pyrene
Concen: 0.392 ng
RT: 19.366 min Scan# 2039
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.7	25.1
203	17.6	14.2	21.4

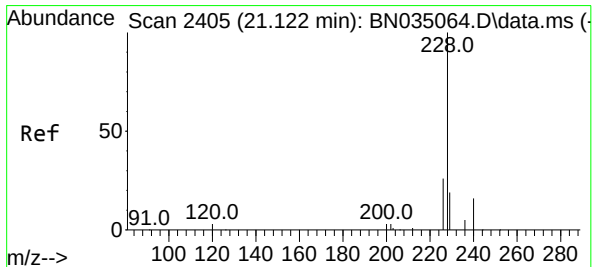
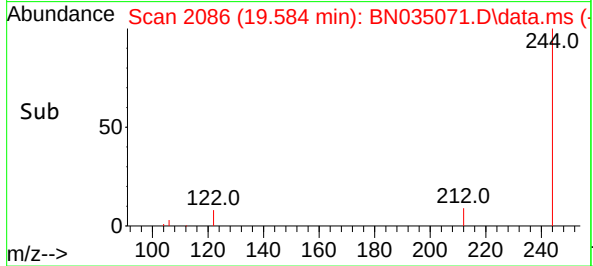
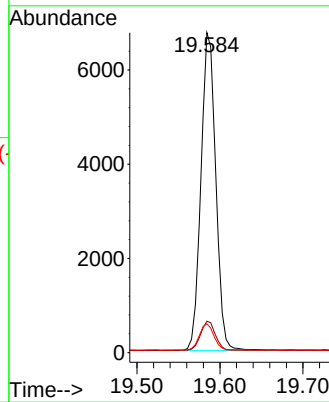
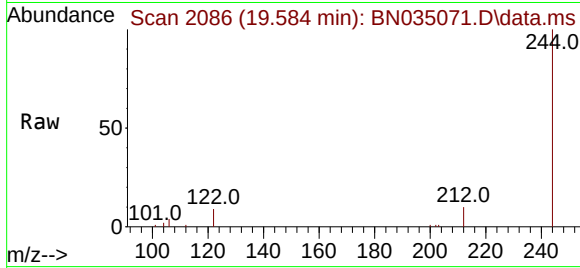




#31
Terphenyl-d14
Concen: 0.406 ng
RT: 19.584 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

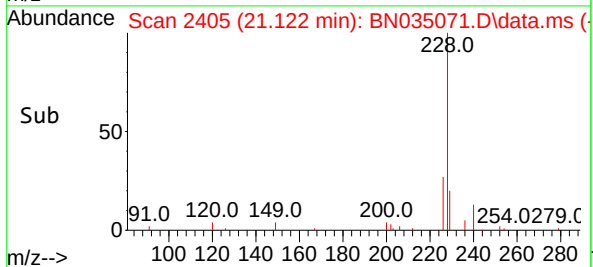
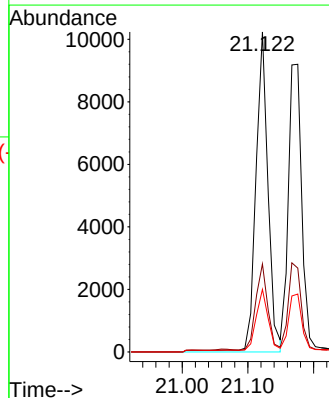
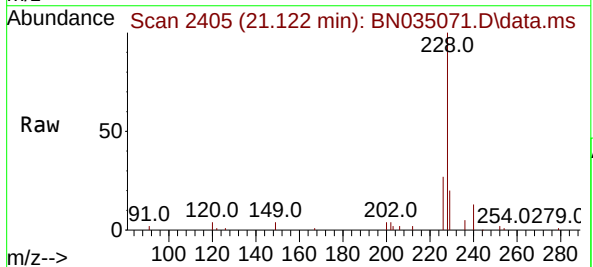
Instrument :
BNA_N
ClientSampleId :
PB164785BS

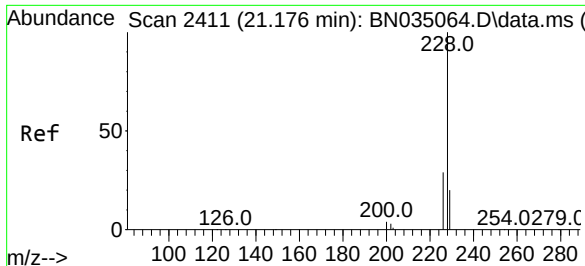
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.6	11.4
122	9.1	6.1	9.1



#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.5	21.4	32.0
229	19.6	15.7	23.5

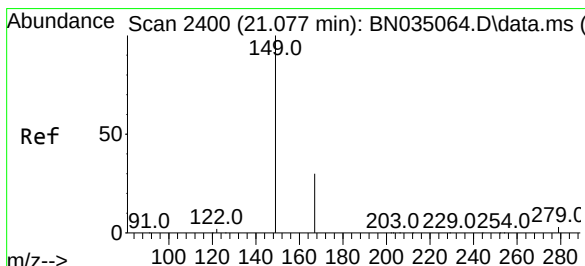
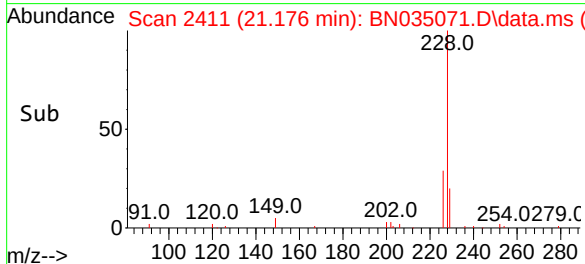
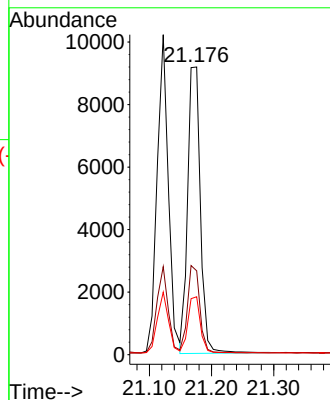
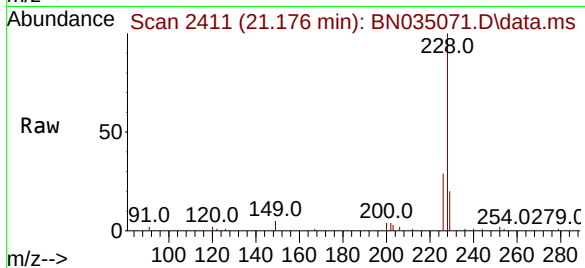




#33
Chrysene
Concen: 0.386 ng
RT: 21.176 min Scan# 2411
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

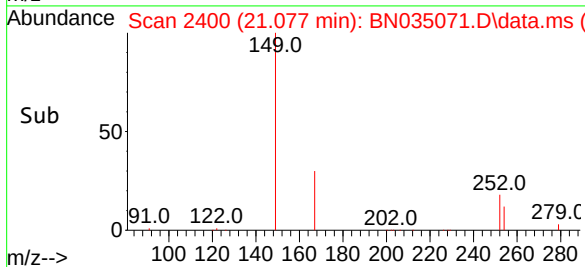
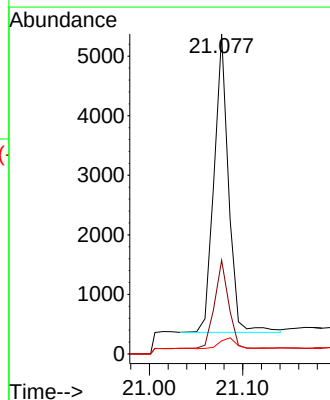
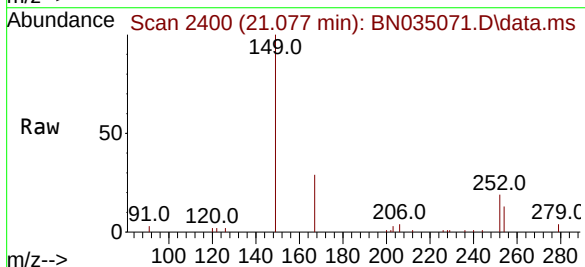
Instrument :
BNA_N
ClientSampleId :
PB164785BS

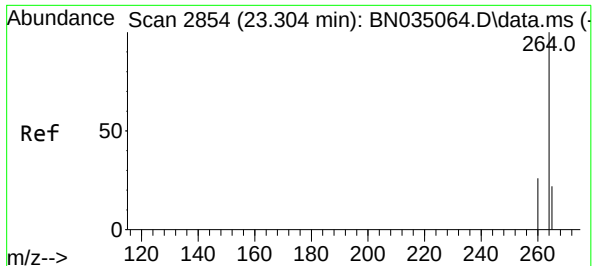
Tgt Ion:	228	Resp:	13127
Ion Ratio	Lower	Upper	
228	100		
226	29.1	23.7	35.5
229	20.2	16.2	24.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.300 ng
RT: 21.077 min Scan# 2400
Delta R.T. -0.000 min
Lab File: BN035071.D
Acq: 13 Nov 2024 18:03

Tgt Ion:	149	Resp:	5394
Ion Ratio	Lower	Upper	
149	100		
167	28.8	23.2	34.8
279	4.2	3.2	4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.304 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035071.D

Acq: 13 Nov 2024 18:03

Instrument :

BNA_N

ClientSampleId :

PB164785BS

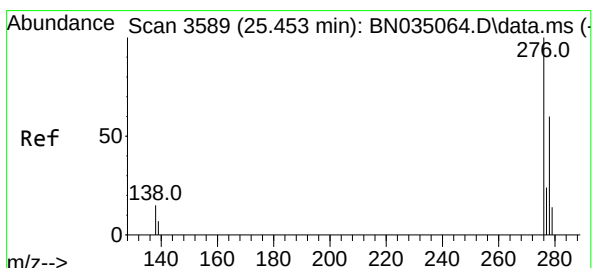
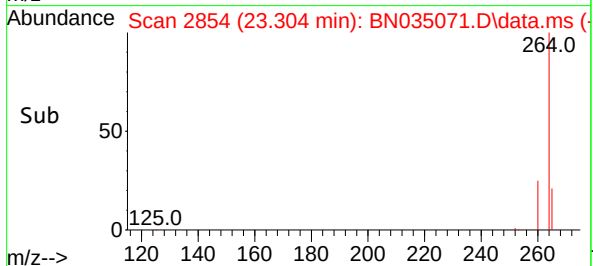
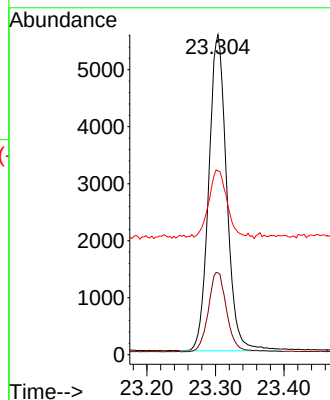
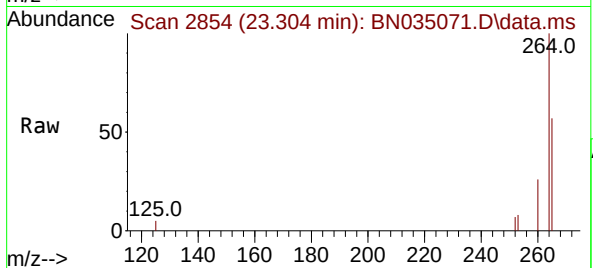
Tgt Ion:264 Resp: 10124

Ion Ratio Lower Upper

264 100

260 25.6 20.9 31.3

265 57.5 35.4 53.2#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.378 ng

RT: 25.453 min Scan# 3589

Delta R.T. -0.000 min

Lab File: BN035071.D

Acq: 13 Nov 2024 18:03

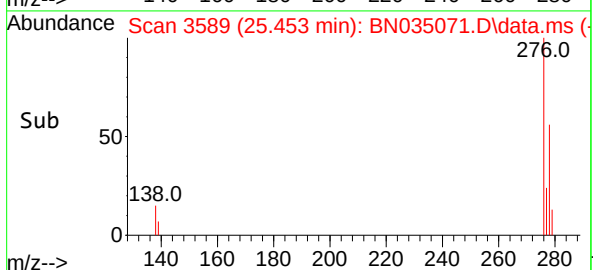
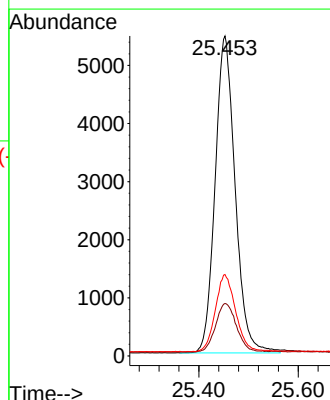
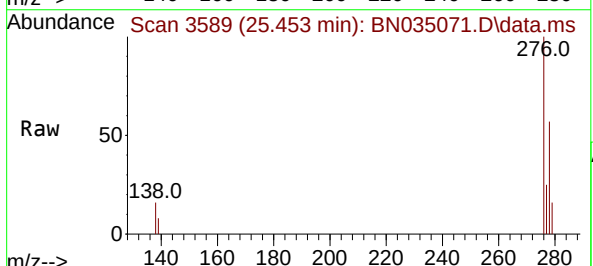
Tgt Ion:276 Resp: 15283

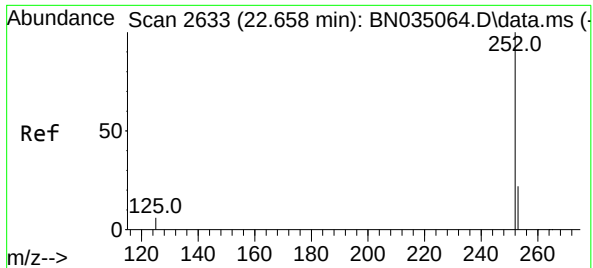
Ion Ratio Lower Upper

276 100

138 16.0 13.0 19.4

277 24.6 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.657 min Scan# 2633

Delta R.T. -0.000 min

Lab File: BN035071.D

Acq: 13 Nov 2024 18:03

Instrument :

BNA_N

ClientSampleId :

PB164785BS

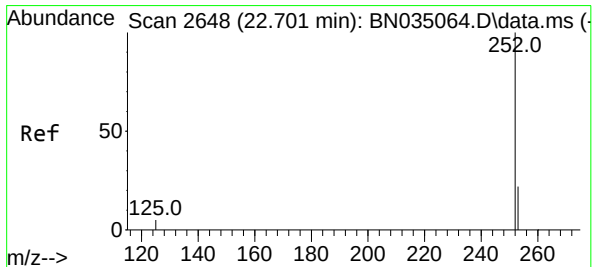
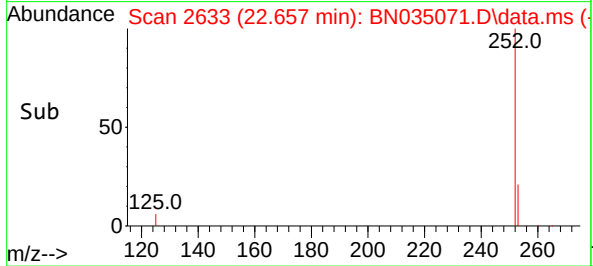
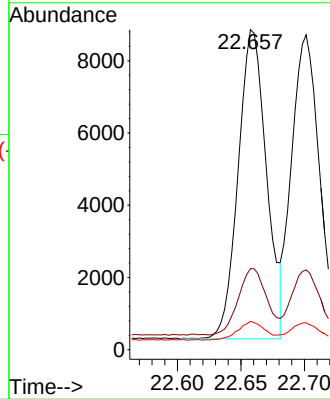
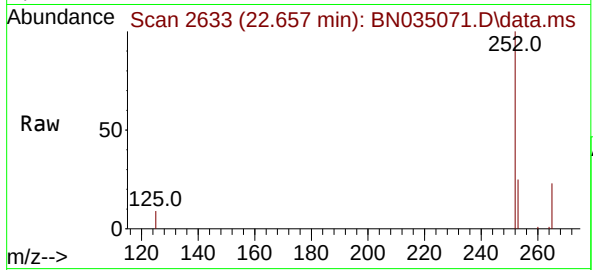
Tgt Ion:252 Resp: 13282

Ion Ratio Lower Upper

252 100

253 25.3 19.3 28.9

125 8.8 6.2 9.2



#38

Benzo(k)fluoranthene

Concen: 0.382 ng

RT: 22.701 min Scan# 2648

Delta R.T. -0.000 min

Lab File: BN035071.D

Acq: 13 Nov 2024 18:03

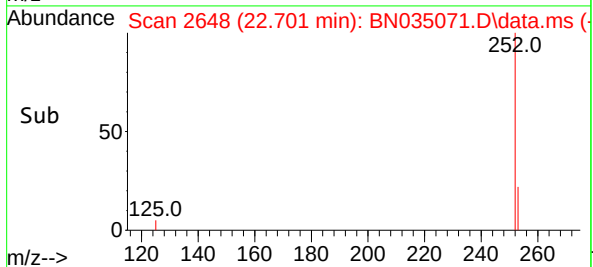
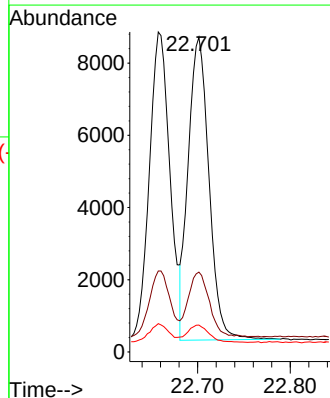
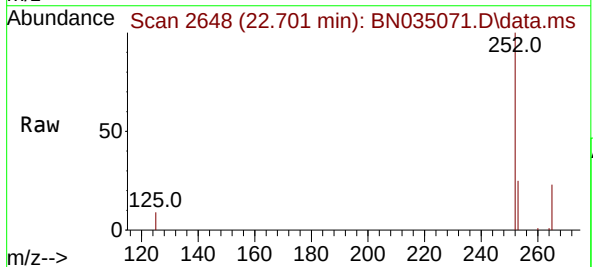
Tgt Ion:252 Resp: 13024

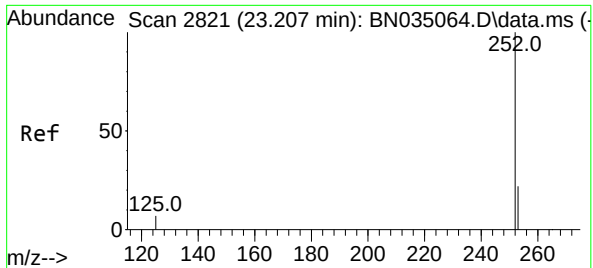
Ion Ratio Lower Upper

252 100

253 25.3 19.5 29.3

125 8.6 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.395 ng

RT: 23.207 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035071.D

Acq: 13 Nov 2024 18:03

Instrument :

BNA_N

ClientSampleId :

PB164785BS

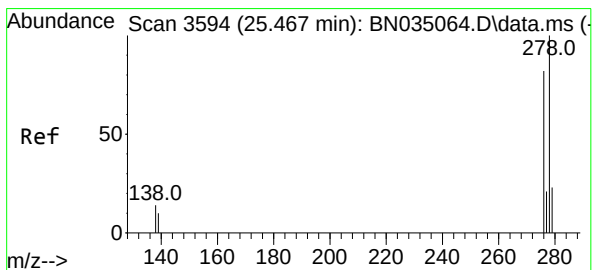
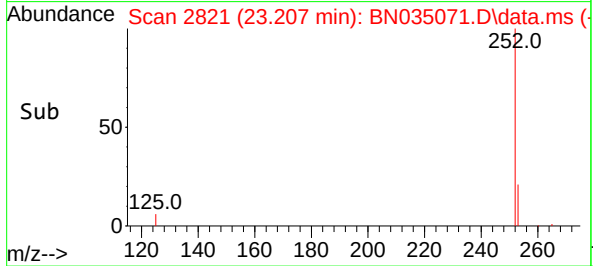
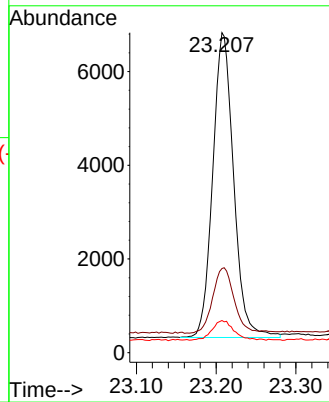
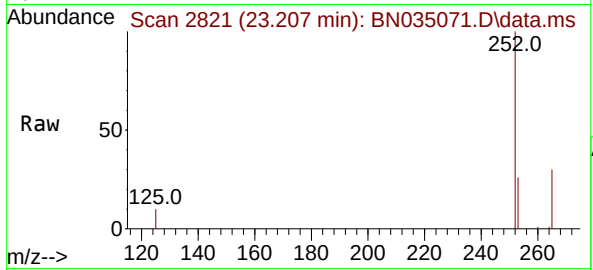
Tgt Ion:252 Resp: 11853

Ion Ratio Lower Upper

252 100

253 26.3 20.1 30.1

125 10.1 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.381 ng

RT: 25.470 min Scan# 3595

Delta R.T. 0.003 min

Lab File: BN035071.D

Acq: 13 Nov 2024 18:03

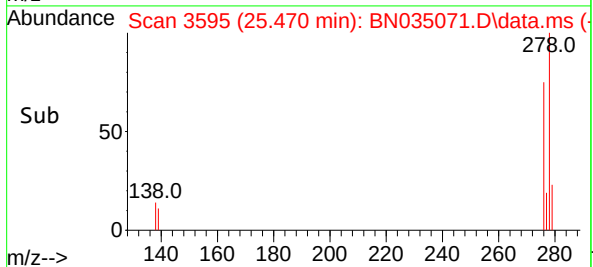
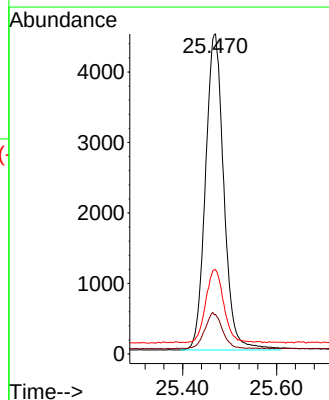
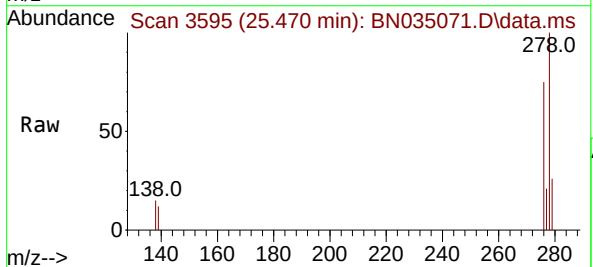
Tgt Ion:278 Resp: 12176

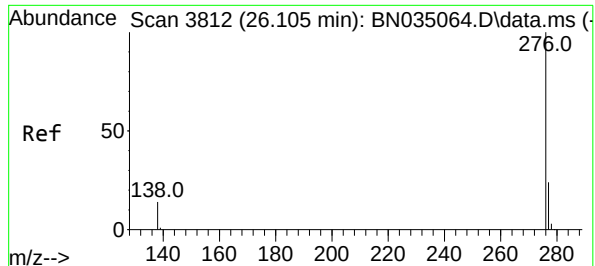
Ion Ratio Lower Upper

278 100

139 12.4 9.3 13.9

279 26.4 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.353 ng

RT: 26.104 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN035071.D

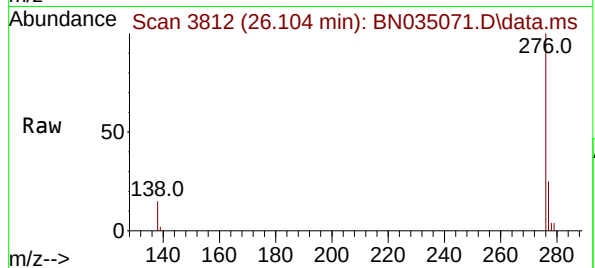
Acq: 13 Nov 2024 18:03

Instrument :

BNA_N

ClientSampleId :

PB164785BS



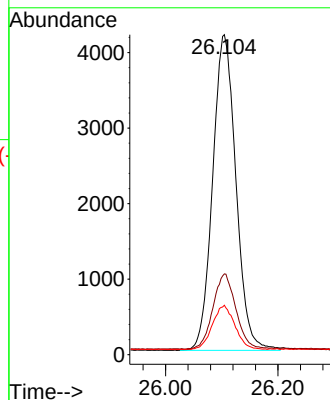
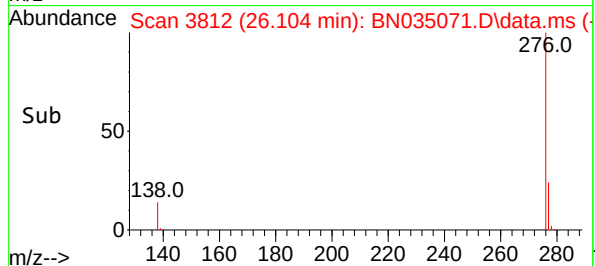
Tgt Ion:276 Resp: 12020

Ion Ratio Lower Upper

276 100

277 25.3 19.9 29.9

138 15.5 11.6 17.4



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164785BSD	SDG No.:	P4773
Lab Sample ID:	PB164785BSD	Matrix:	Water
Analytical Method:	SW8270SIM	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035072.D	1	11/08/24 11:30	11/13/24 18:38	PB164785

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.27		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.29		30 - 150		72%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.32		58 - 132		79%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2530	7.553				
1146-65-2	Naphthalene-d8	5950	10.319				
15067-26-2	Acenaphthene-d10	4350	14.186				
1517-22-2	Phenanthrene-d10	12000	16.939				
1719-03-5	Chrysene-d12	12500	21.131				
1520-96-3	Perylene-d12	13100	23.301				

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\BN111324\
 Data File : BN035072.D
 Acq On : 13 Nov 2024 18:38
 Operator : RC/JU
 Sample : PB164785BSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164785BSD

Quant Time: Nov 14 02:06:28 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 17:18:14 2024
 Response via : Initial Calibration

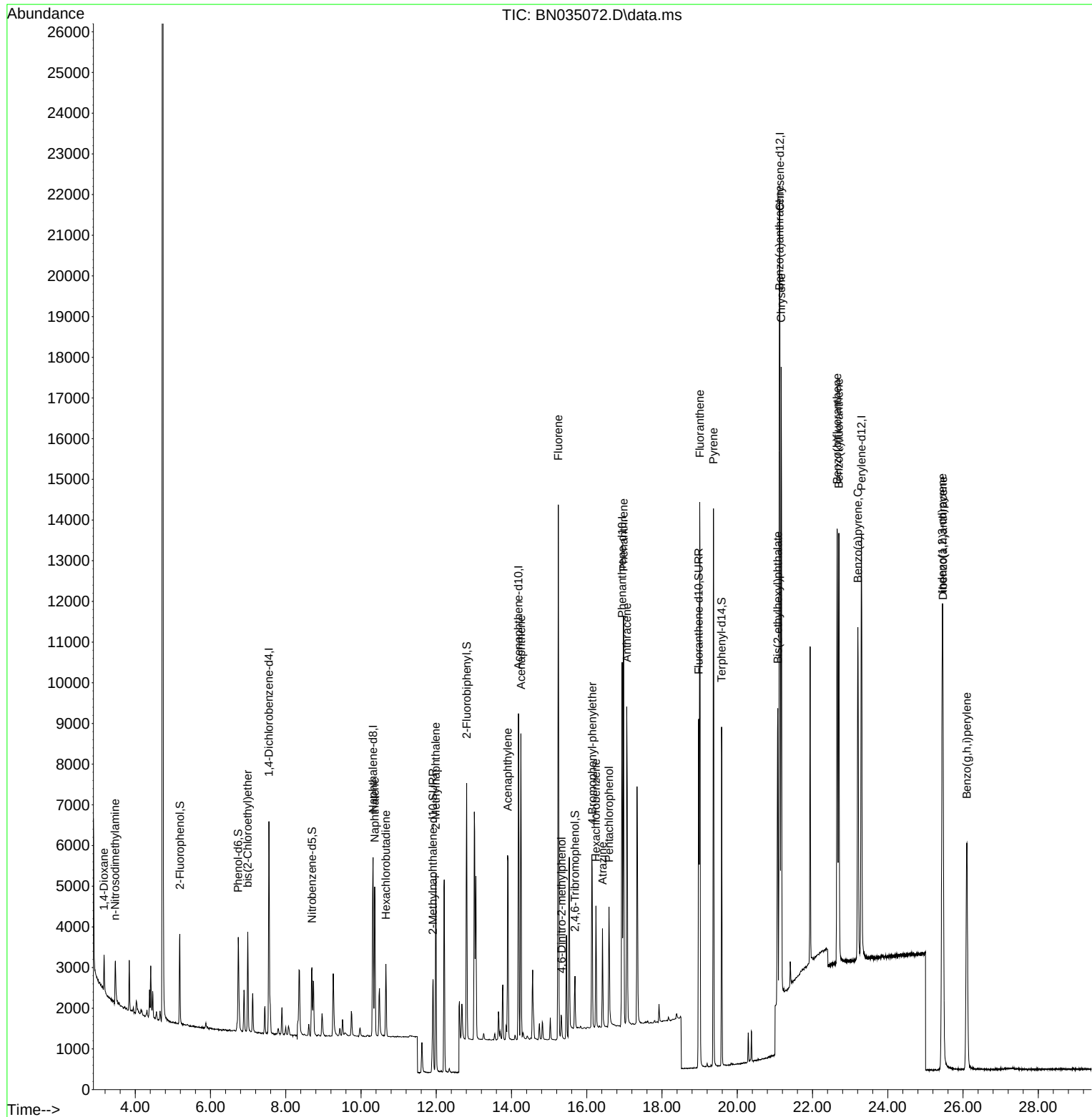
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2529	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	5952	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	4350	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	12047	0.400	ng	0.00
29) Chrysene-d12	21.131	240	12506	0.400	ng	# 0.00
35) Perylene-d12	23.301	264	13065	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.184	112	1833	0.286	ng	0.00
5) Phenol-d6	6.737	99	2242	0.279	ng	0.00
8) Nitrobenzene-d5	8.696	82	1561	0.301	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	3950	0.372	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	740	0.236	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	5307	0.300	ng	0.00
27) Fluoranthene-d10	18.976	212	10552	0.286	ng	0.00
31) Terphenyl-d14	19.584	244	8336	0.318	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.169	88	616	0.268	ng	# 57
3) n-Nitrosodimethylamine	3.466	42	622	0.291	ng	# 84
6) bis(2-Chloroethyl)ether	6.990	93	1860	0.308	ng	98
9) Naphthalene	10.362	128	4760	0.306	ng	98
10) Hexachlorobutadiene	10.661	225	1409	0.309	ng	# 99
12) 2-Methylnaphthalene	11.988	142	3367	0.294	ng	99
16) Acenaphthylene	13.898	152	5590	0.301	ng	100
17) Acenaphthene	14.251	154	3555	0.292	ng	99
18) Fluorene	15.245	166	5161	0.288	ng	99
20) 4,6-Dinitro-2-methylph...	15.330	198	656	0.262	ng	# 86
21) 4-Bromophenyl-phenylether	16.145	248	2157	0.281	ng	99
22) Hexachlorobenzene	16.244	284	2166	0.272	ng	98
23) Atrazine	16.418	200	1921	0.279	ng	99
24) Pentachlorophenol	16.592	266	1552	0.417	ng	98
25) Phenanthrene	16.977	178	9528	0.301	ng	99
26) Anthracene	17.064	178	8746	0.300	ng	98
28) Fluoranthene	19.004	202	12388	0.284	ng	100
30) Pyrene	19.366	202	12807	0.308	ng	100
32) Benzo(a)anthracene	21.122	228	12448	0.286	ng	99
33) Chrysene	21.167	228	13004	0.301	ng	98
34) Bis(2-ethylhexyl)phtha...	21.077	149	5253	0.230	ng	100
36) Indeno(1,2,3-cd)pyrene	25.447	276	14939	0.287	ng	100
37) Benzo(b)fluoranthene	22.655	252	13004	0.296	ng	97
38) Benzo(k)fluoranthene	22.698	252	12919	0.294	ng	98
39) Benzo(a)pyrene	23.204	252	11655	0.301	ng	97
40) Dibenzo(a,h)anthracene	25.464	278	11767	0.285	ng	96
41) Benzo(g,h,i)perylene	26.099	276	11762	0.268	ng	99

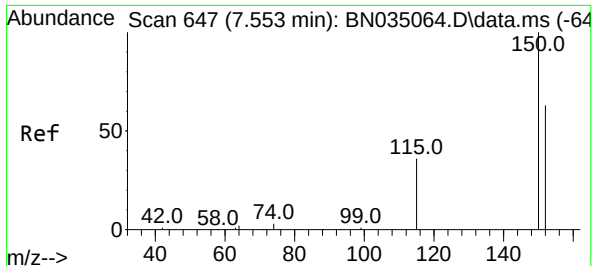
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035072.D
 Acq On : 13 Nov 2024 18:38
 Operator : RC/JU
 Sample : PB164785BSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164785BSD

Quant Time: Nov 14 02:06:28 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 17:18:14 2024
 Response via : Initial Calibration

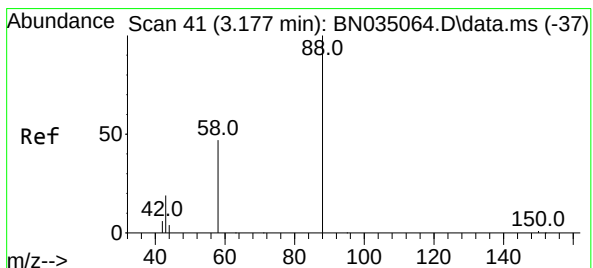
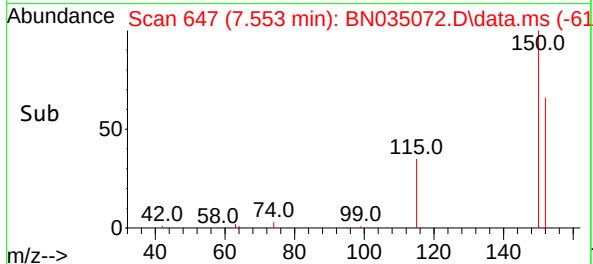
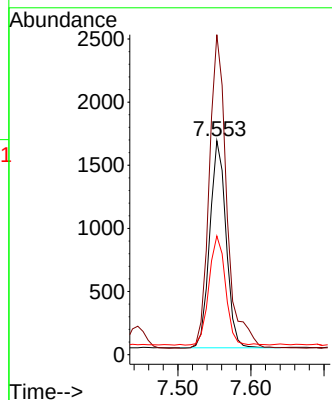
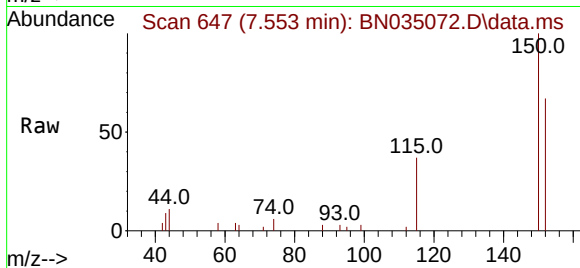




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

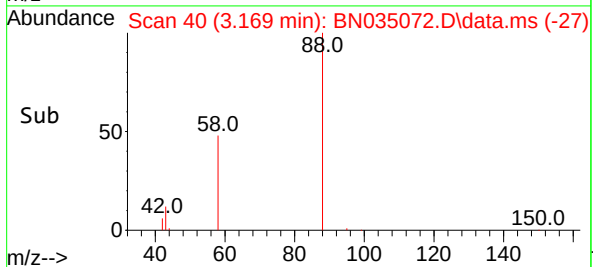
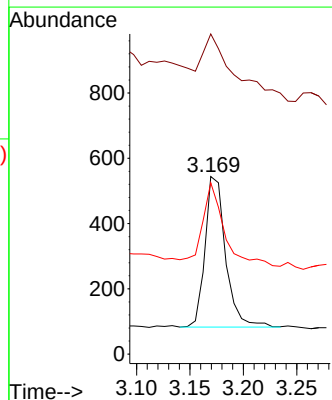
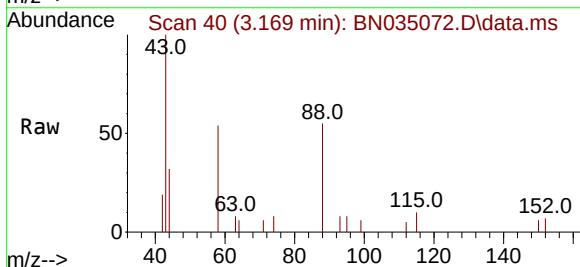
Instrument :
BNA_N
ClientSampleId :
PB164785BSD

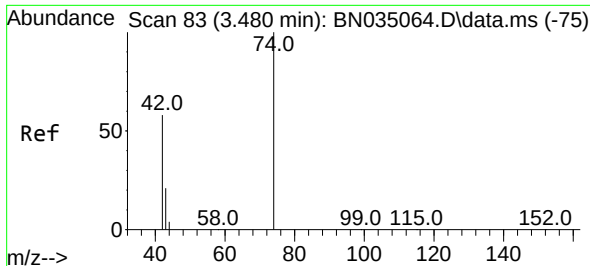
Tgt Ion:152 Resp: 2529
Ion Ratio Lower Upper
152 100
150 149.6 124.5 186.7
115 55.5 47.8 71.6



#2
1,4-Dioxane
Concen: 0.268 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

Tgt Ion: 88 Resp: 616
Ion Ratio Lower Upper
88 100
43 70.1 16.9 25.3#
58 59.4 39.0 58.4#

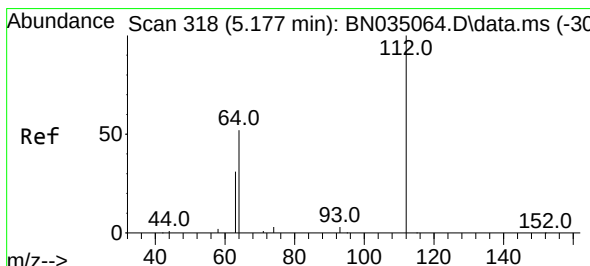
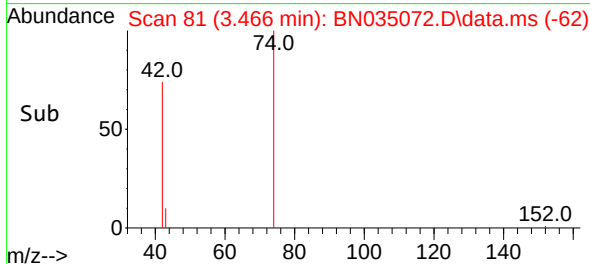
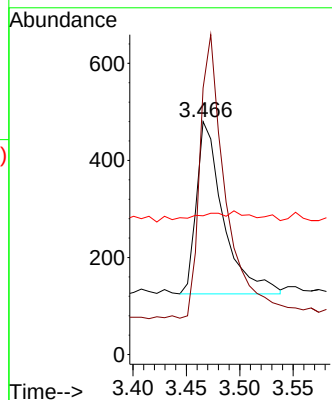
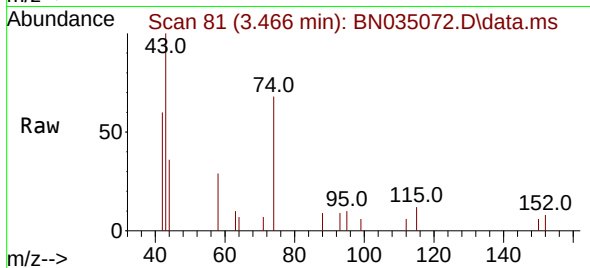




#3
n-Nitrosodimethylamine
Concen: 0.291 ng
RT: 3.466 min Scan# 81
Delta R.T. -0.014 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

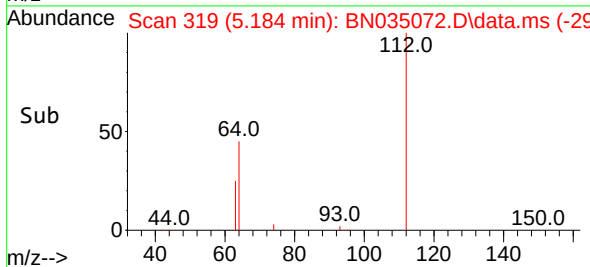
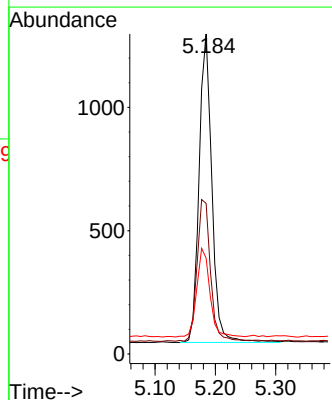
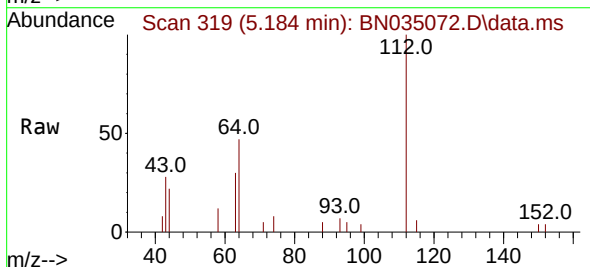
Instrument :
BNA_N
ClientSampleId :
PB164785BSD

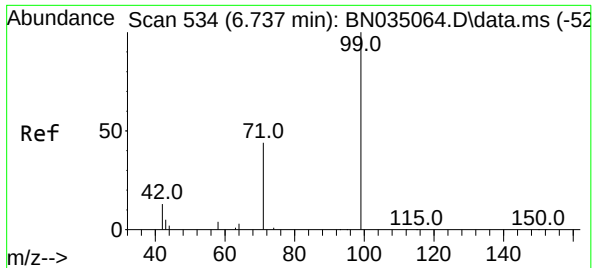
Tgt Ion: 42 Resp: 622
Ion Ratio Lower Upper
42 100
74 171.9 120.8 181.2
44 7.6 2.9 4.3#



#4
2-Fluorophenol
Concen: 0.286 ng
RT: 5.184 min Scan# 319
Delta R.T. 0.007 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

Tgt Ion: 112 Resp: 1833
Ion Ratio Lower Upper
112 100
64 47.9 39.7 59.5
63 29.5 23.0 34.4

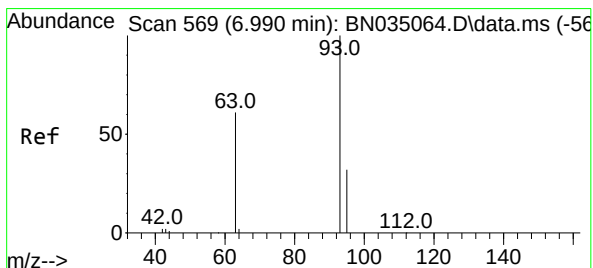
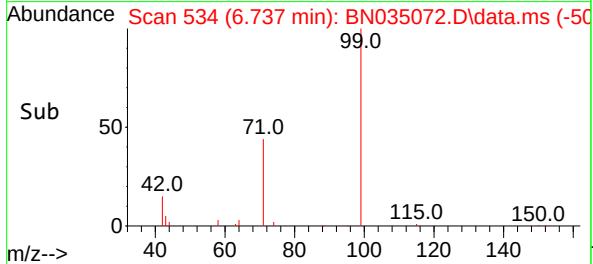
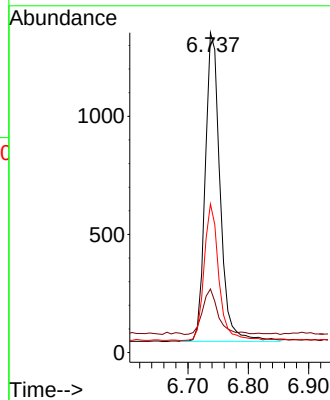
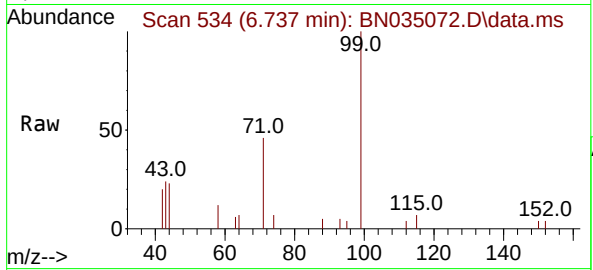




#5
Phenol-d6
Concen: 0.279 ng
RT: 6.737 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

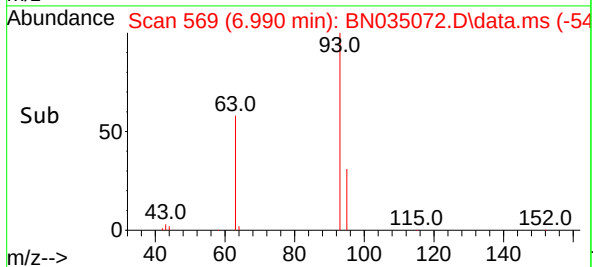
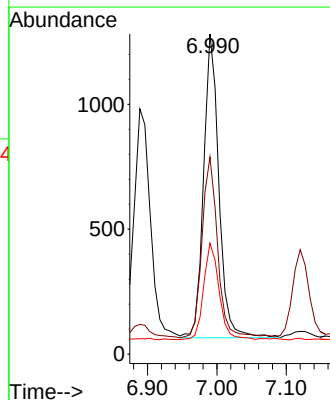
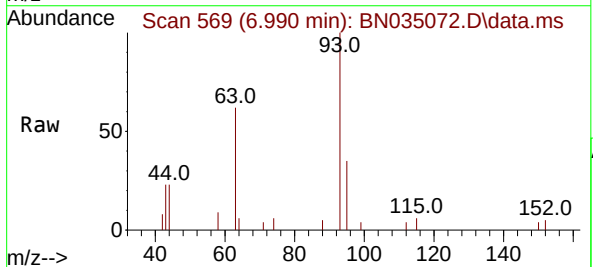
Instrument :
BNA_N
ClientSampleId :
PB164785BSD

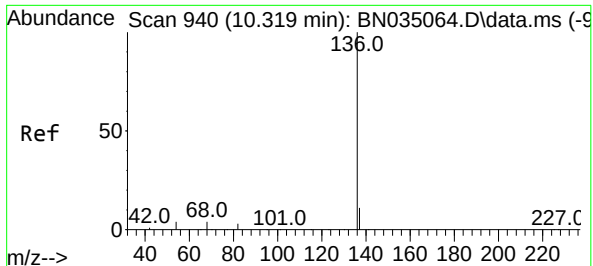
Tgt Ion: 99 Resp: 2242
Ion Ratio Lower Upper
99 100
42 15.4 11.4 17.0
71 43.6 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.308 ng
RT: 6.990 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

Tgt Ion: 93 Resp: 1860
Ion Ratio Lower Upper
93 100
63 61.5 47.4 71.2
95 32.0 26.2 39.4

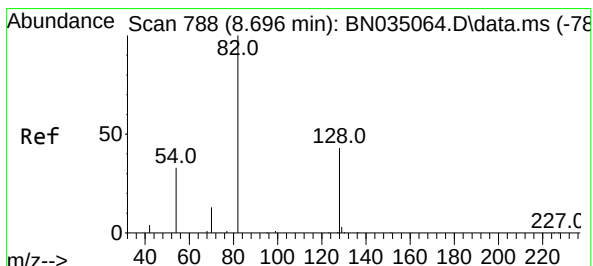
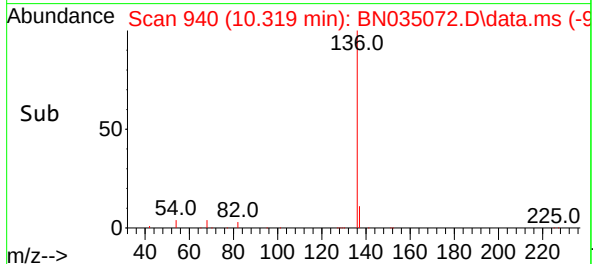
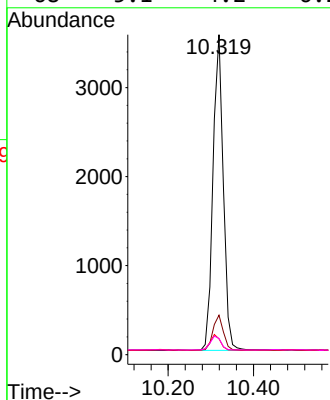
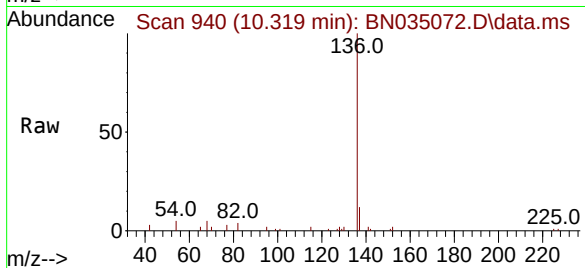




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

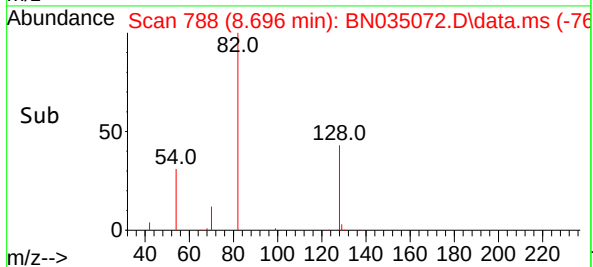
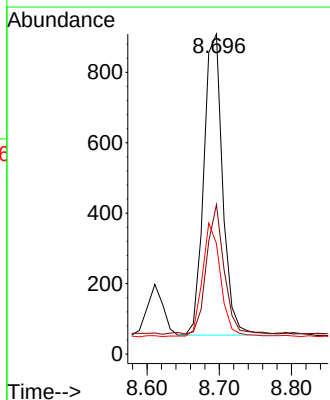
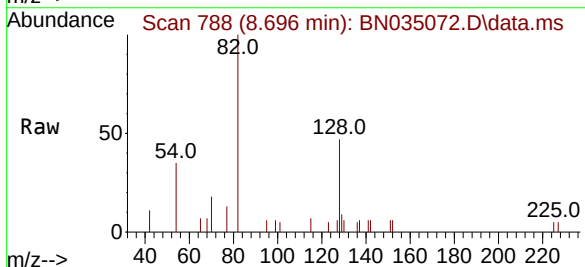
Instrument :
BNA_N
ClientSampleId :
PB164785BSD

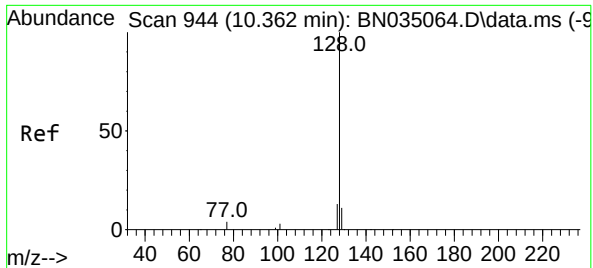
Tgt Ion:	136	Resp:	5952
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.8	14.8
54	5.0	4.0	6.0
68	5.1	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.301 ng
RT: 8.696 min Scan# 788
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

Tgt Ion:	82	Resp:	1561
Ion	Ratio	Lower	Upper
82	100		
128	46.6	36.5	54.7
54	34.5	28.7	43.1

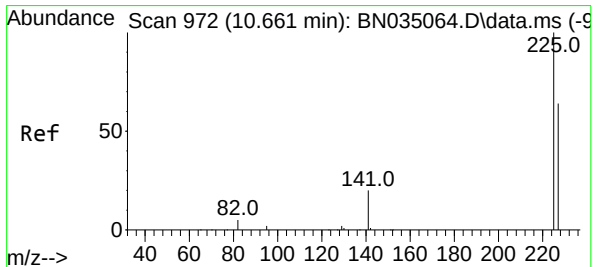
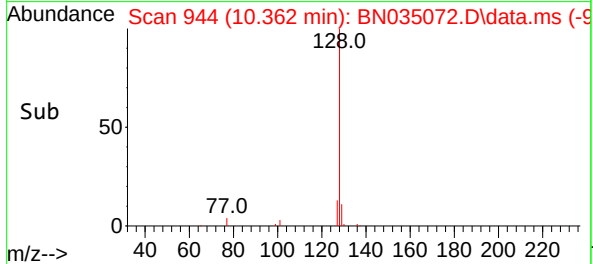
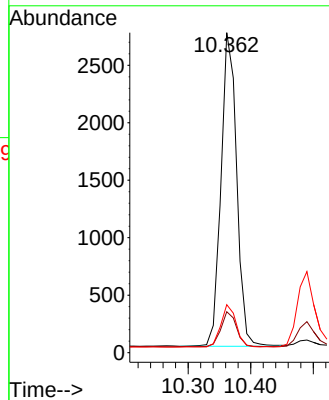
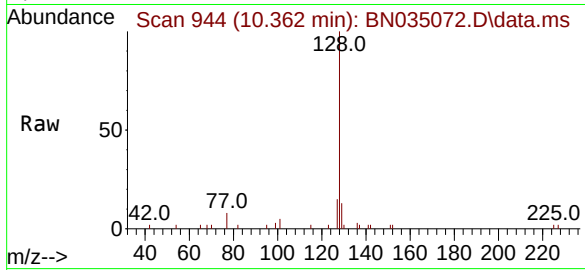




#9
Naphthalene
Concen: 0.306 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

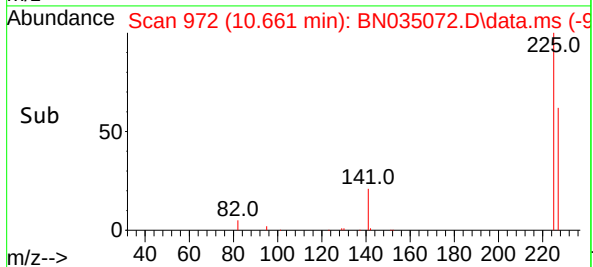
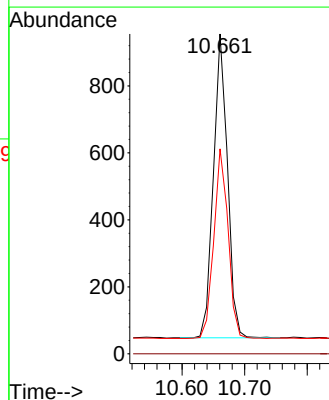
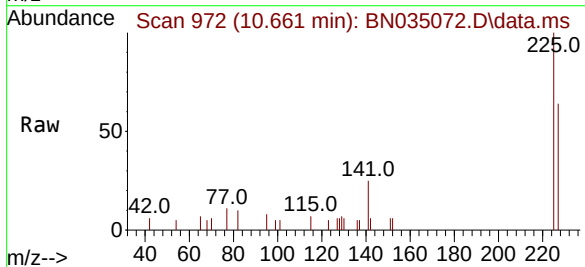
Instrument :
BNA_N
ClientSampleId :
PB164785BSD

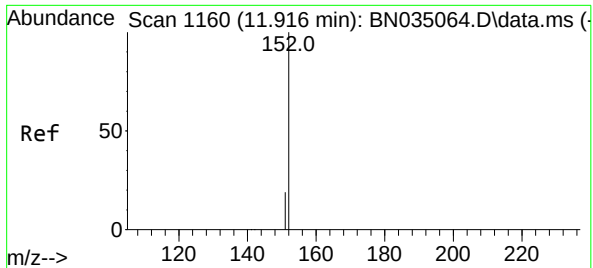
Tgt Ion:	128	Resp:	4760
Ion	Ratio	Lower	Upper
128	100		
129	12.8	9.6	14.4
127	15.0	11.6	17.4



#10
Hexachlorobutadiene
Concen: 0.309 ng
RT: 10.661 min Scan# 972
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

Tgt Ion:	225	Resp:	1409
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.5	77.3

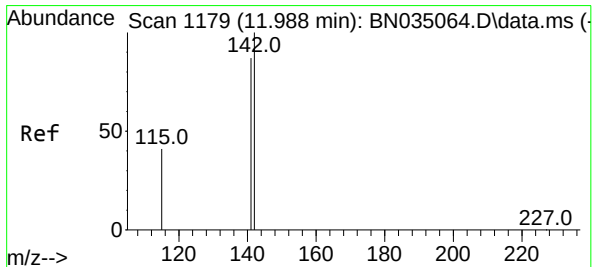
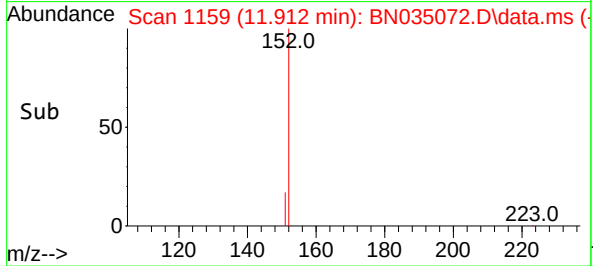
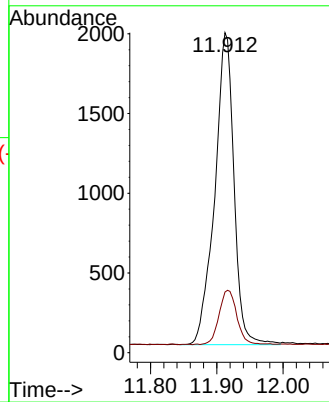
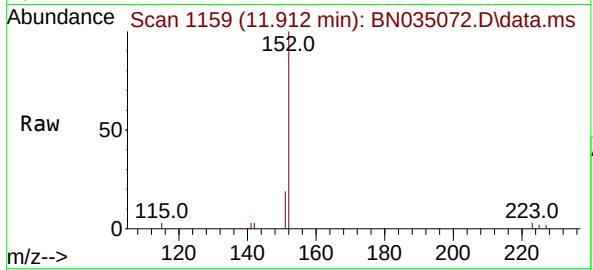




#11
2-Methylnaphthalene-d10
Concen: 0.372 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

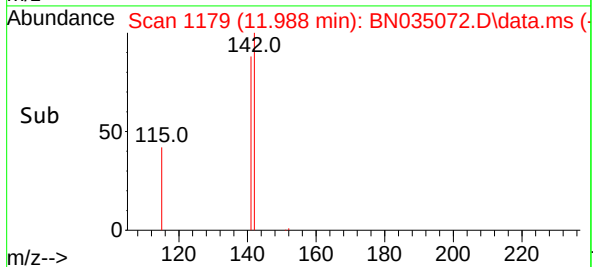
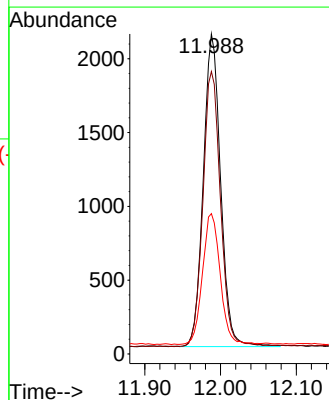
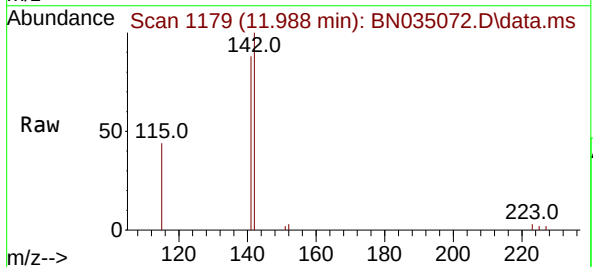
Instrument :
BNA_N
ClientSampleId :
PB164785BSD

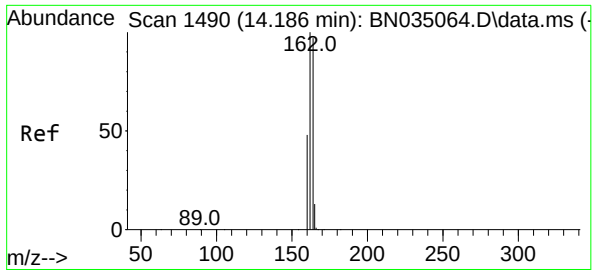
Tgt Ion:152 Resp: 3950
Ion Ratio Lower Upper
152 100
151 16.0 16.2 24.4#



#12
2-Methylnaphthalene
Concen: 0.294 ng
RT: 11.988 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

Tgt Ion:142 Resp: 3367
Ion Ratio Lower Upper
142 100
141 88.2 70.1 105.1
115 43.9 34.4 51.6

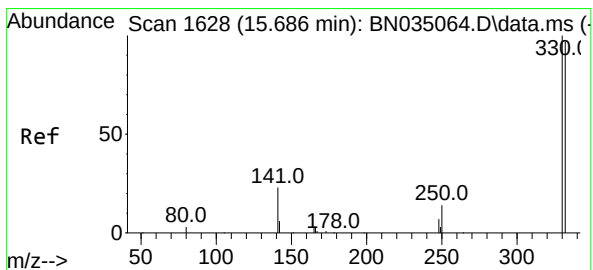
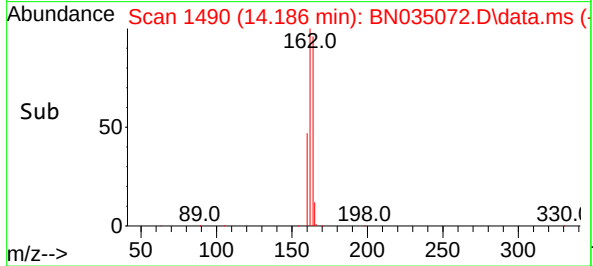
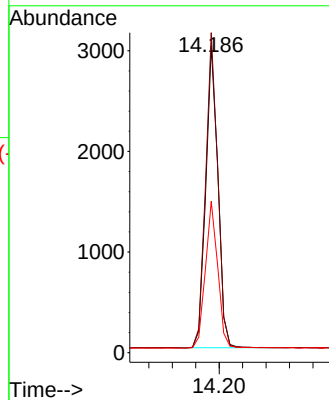
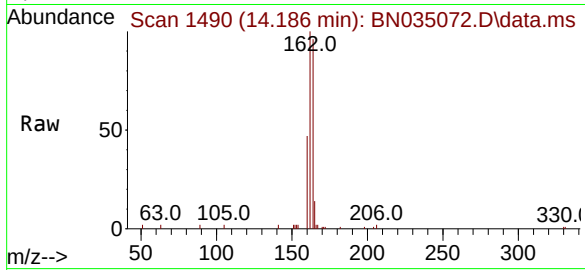




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

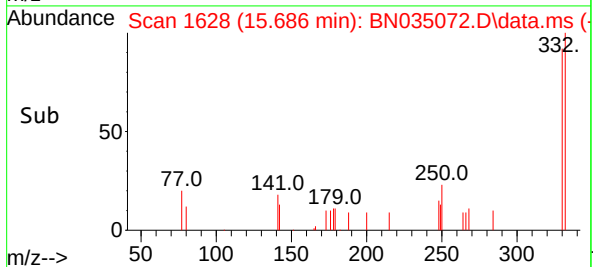
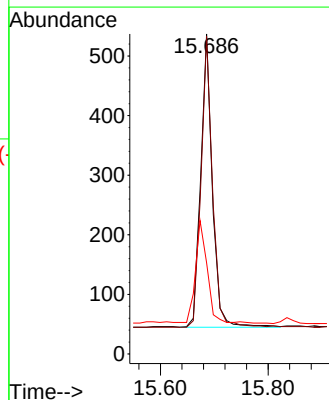
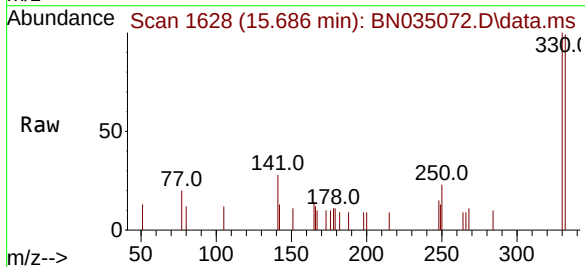
Instrument :
BNA_N
ClientSampleId :
PB164785BSD

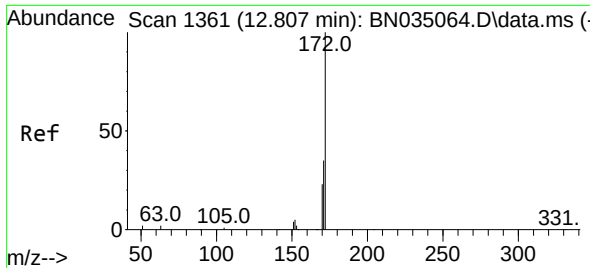
Tgt Ion:164 Resp: 4350
Ion Ratio Lower Upper
164 100
162 104.2 82.2 123.2
160 49.3 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.236 ng
RT: 15.686 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

Tgt Ion:330 Resp: 740
Ion Ratio Lower Upper
330 100
332 98.0 76.9 115.3
141 34.3 29.6 44.4

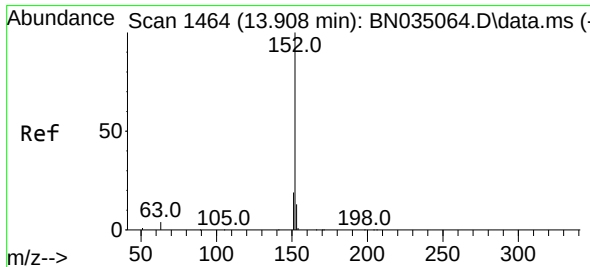
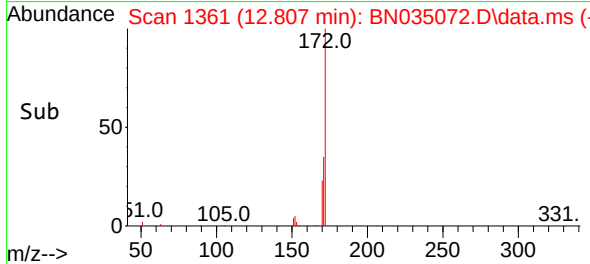
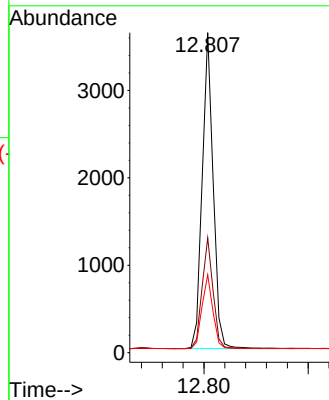
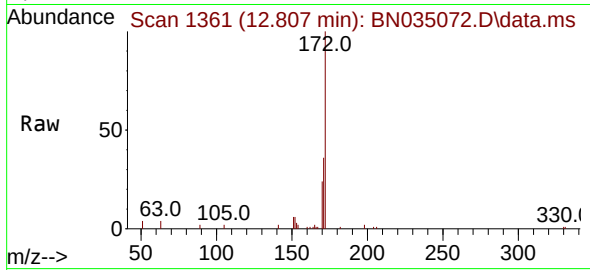




#15
2-Fluorobiphenyl
Concen: 0.300 ng
RT: 12.807 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

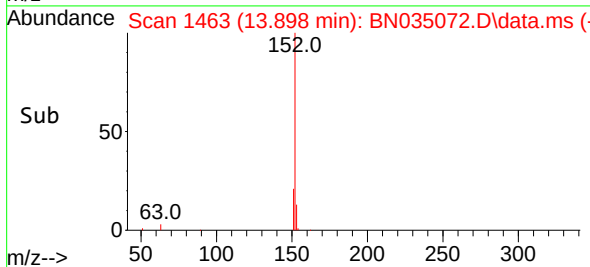
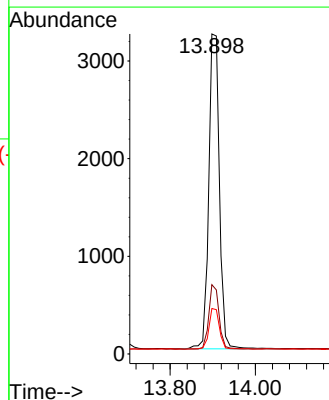
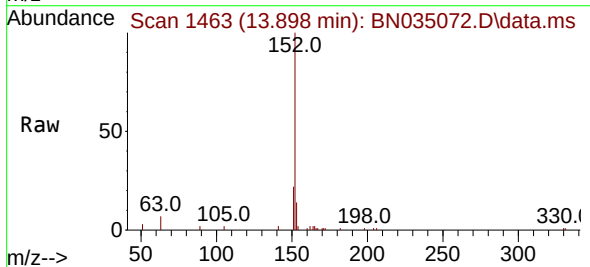
Instrument :
BNA_N
ClientSampleId :
PB164785BSD

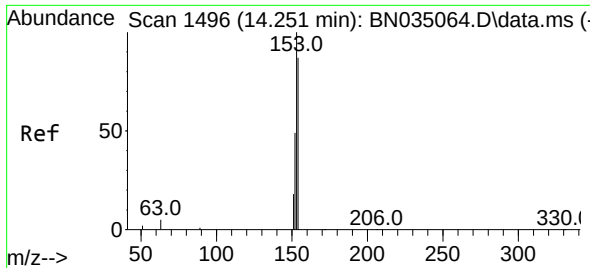
Tgt Ion:	172	Resp:	5307
Ion Ratio	Lower	Upper	
172	100		
171	35.9	28.2	42.4
170	24.3	19.0	28.6



#16
Acenaphthylene
Concen: 0.301 ng
RT: 13.898 min Scan# 1463
Delta R.T. -0.011 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

Tgt Ion:	152	Resp:	5590
Ion Ratio	Lower	Upper	
152	100		
151	19.5	15.8	23.8
153	12.7	10.2	15.4

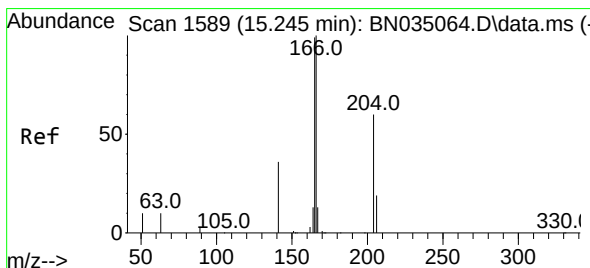
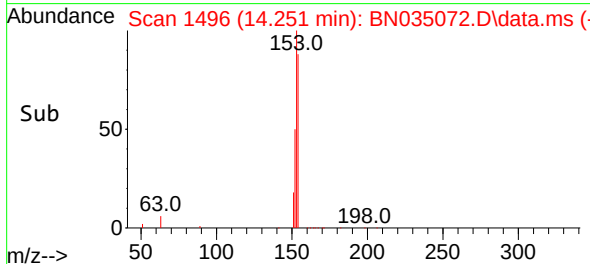
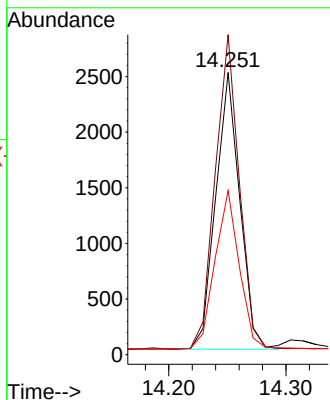
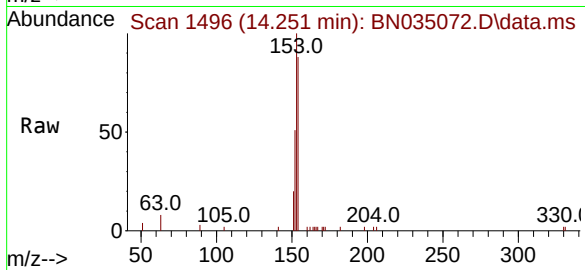




#17
Acenaphthene
Concen: 0.292 ng
RT: 14.251 min Scan# 1496
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

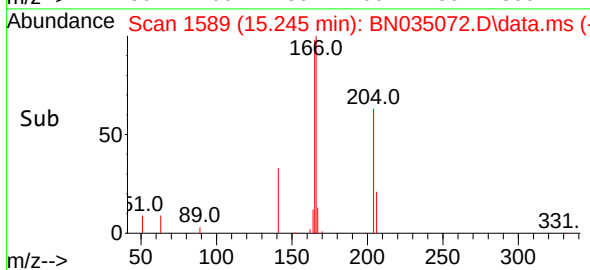
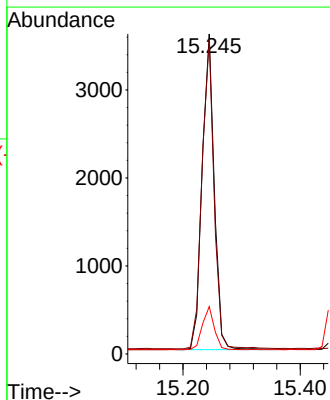
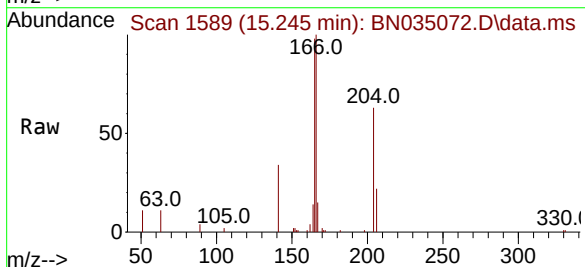
Instrument :
BNA_N
ClientSampleId :
PB164785BSD

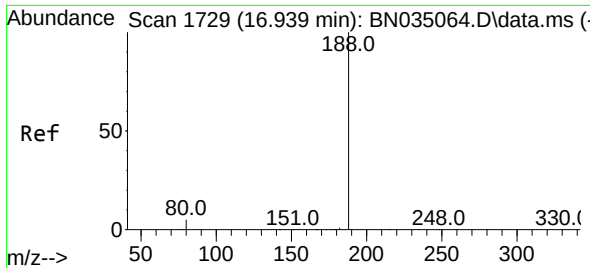
Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.9	91.6	137.4
152	57.9	45.8	68.6



#18
Fluorene
Concen: 0.288 ng
RT: 15.245 min Scan# 1589
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.6	79.1	118.7
167	13.3	10.6	16.0

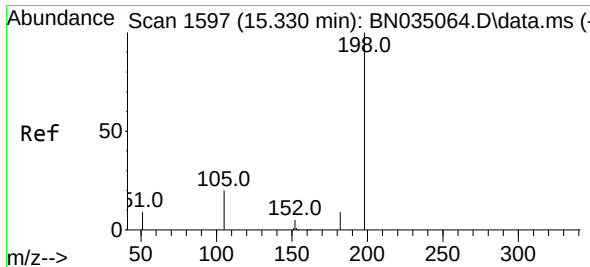
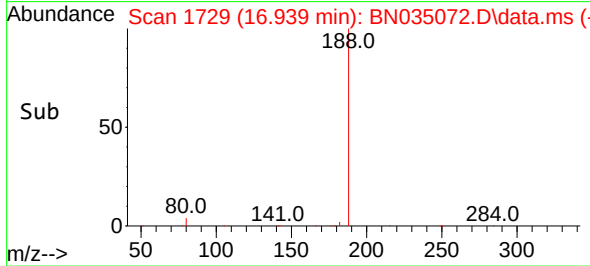
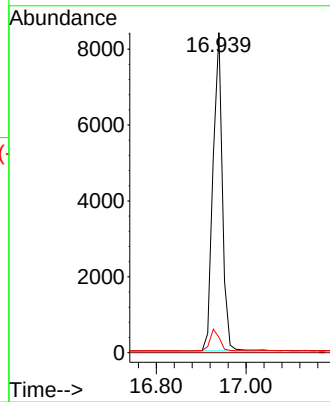
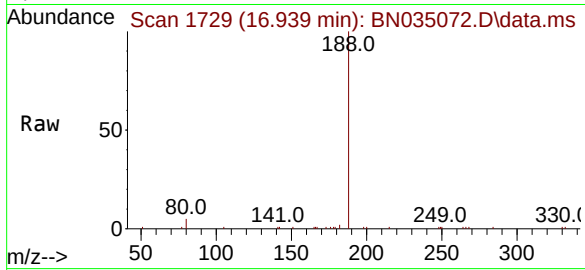




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.939 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

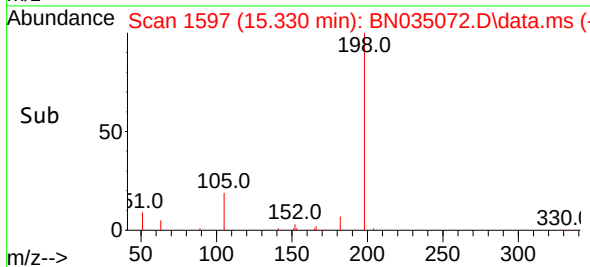
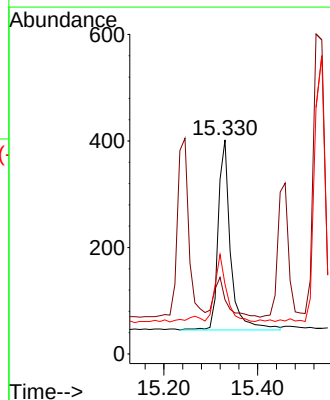
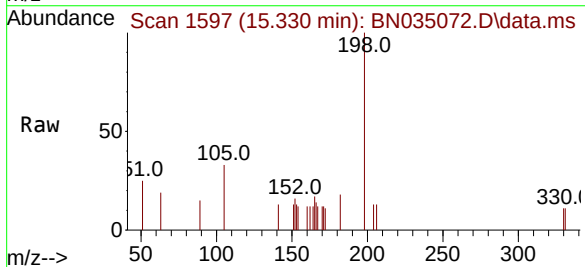
Instrument :
BNA_N
ClientSampleId :
PB164785BSD

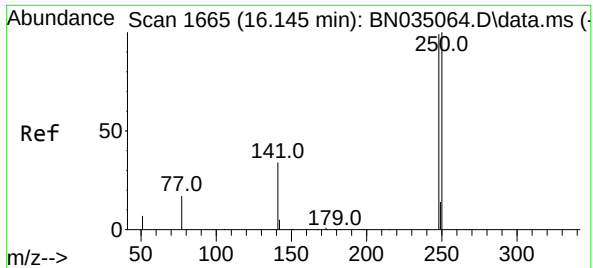
Tgt Ion:	188	Resp:	12047
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	4.8	4.3	6.5



#20
4,6-Dinitro-2-methylphenol
Concen: 0.262 ng
RT: 15.330 min Scan# 1597
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

Tgt Ion:	198	Resp:	656
Ion Ratio	Lower	Upper	
198	100		
51	25.4	29.9	44.9#
105	32.6	23.7	35.5

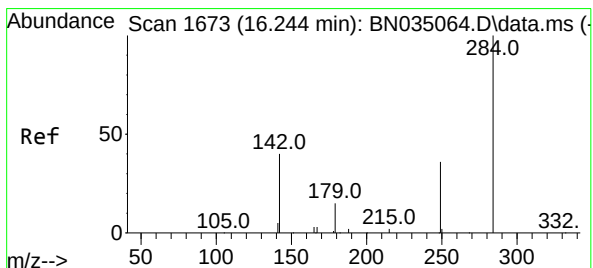
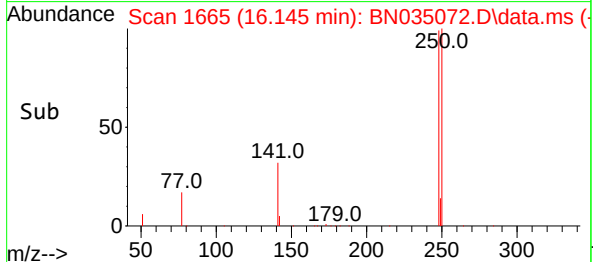
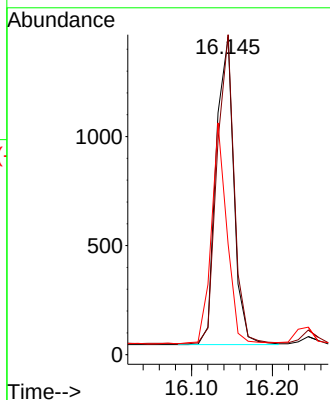
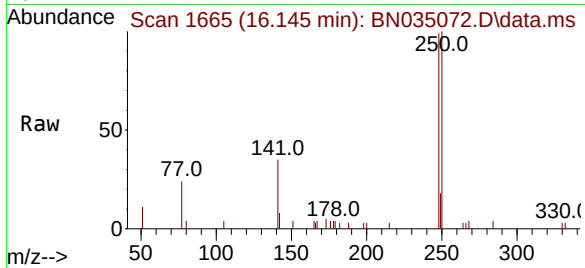




#21
4-Bromophenyl-phenylether
Concen: 0.281 ng
RT: 16.145 min Scan# 1665
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

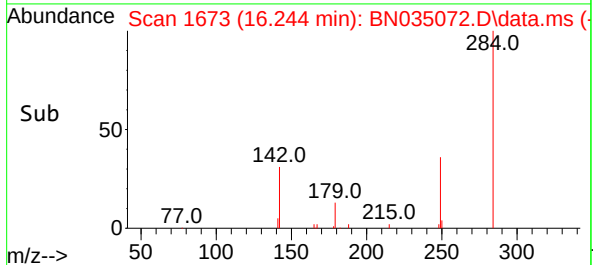
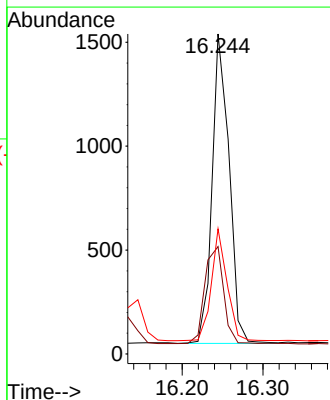
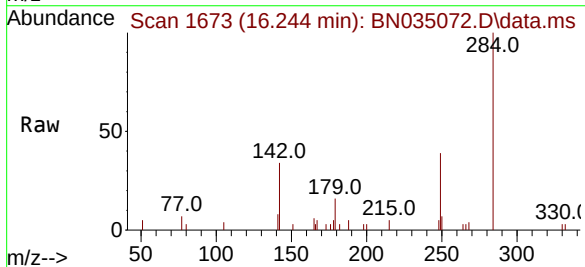
Instrument :
BNA_N
ClientSampleId :
PB164785BSD

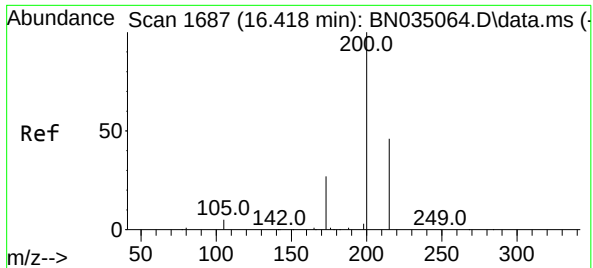
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.8	81.2	121.8
141	34.8	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.272 ng
RT: 16.244 min Scan# 1673
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.2	28.2	42.4
249	34.5	26.2	39.2

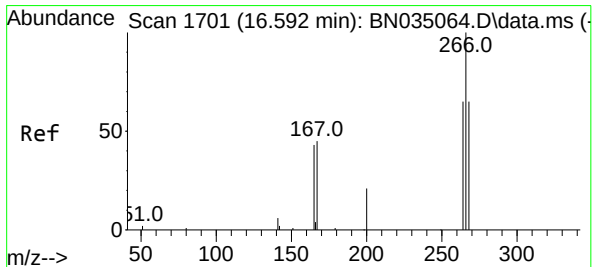
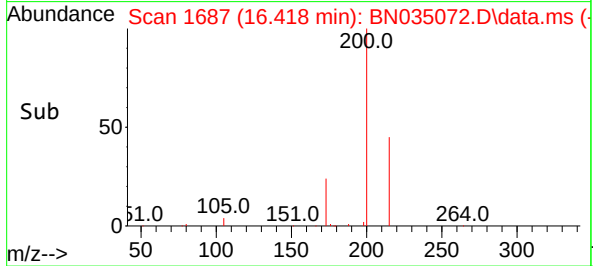
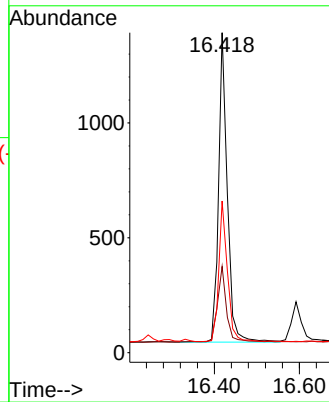
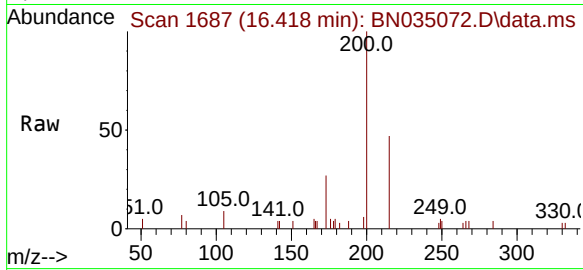




#23
Atrazine
Concen: 0.279 ng
RT: 16.418 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

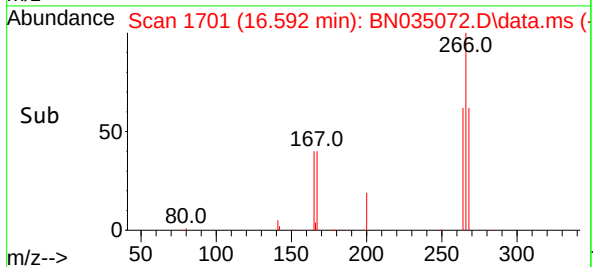
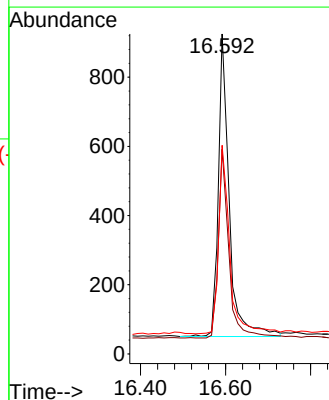
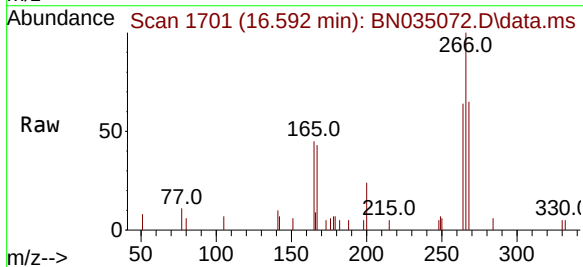
Instrument :
BNA_N
ClientSampleId :
PB164785BSD

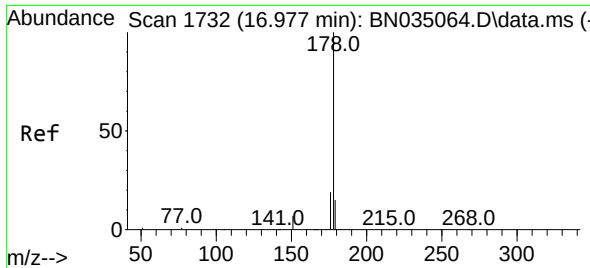
Tgt Ion:200 Resp: 1921
Ion Ratio Lower Upper
200 100
173 26.9 22.6 33.8
215 47.4 37.8 56.6



#24
Pentachlorophenol
Concen: 0.417 ng
RT: 16.592 min Scan# 1701
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

Tgt Ion:266 Resp: 1552
Ion Ratio Lower Upper
266 100
264 60.6 49.4 74.0
268 63.7 52.6 79.0

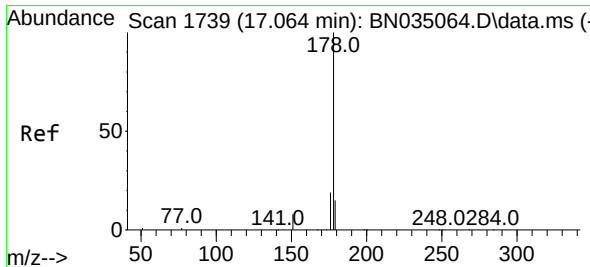
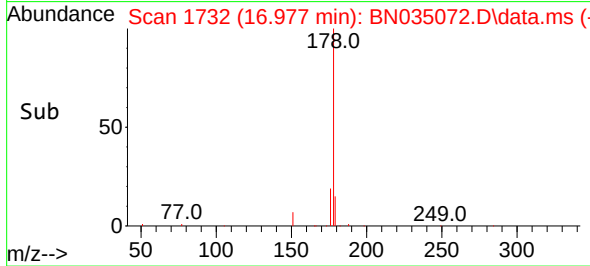
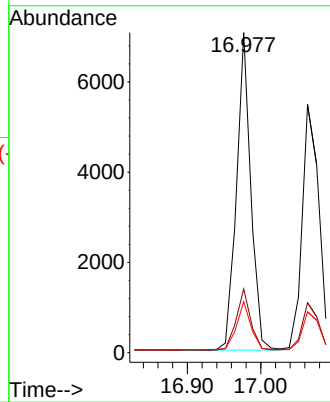
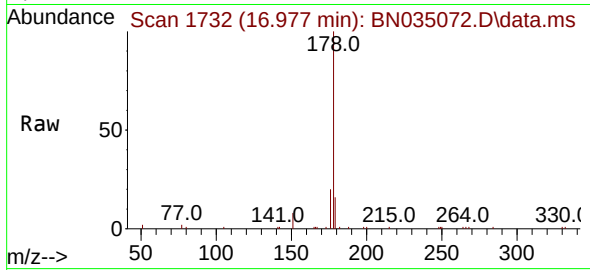




#25
Phenanthrene
Concen: 0.301 ng
RT: 16.977 min Scan# 1732
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

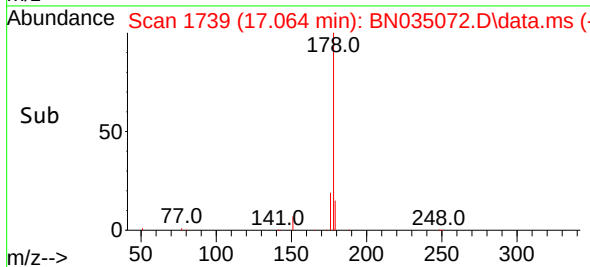
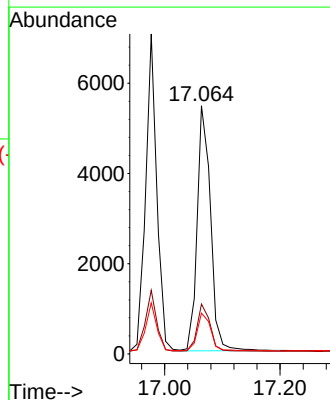
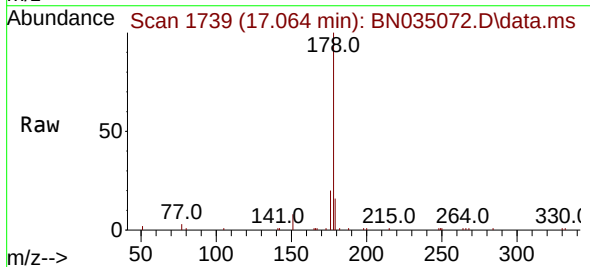
Instrument :
BNA_N
ClientSampleId :
PB164785BSD

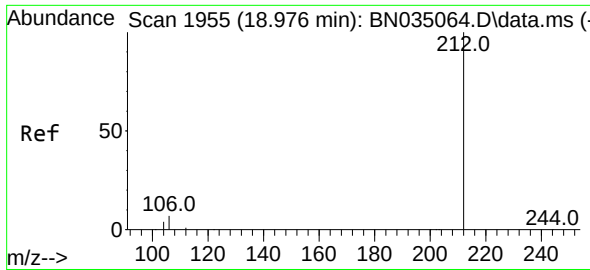
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.2	22.8
179	15.3	12.6	18.8



#26
Anthracene
Concen: 0.300 ng
RT: 17.064 min Scan# 1739
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	14.6	22.0
179	15.9	12.2	18.2





#27

Fluoranthene-d10

Concen: 0.286 ng

RT: 18.976 min Scan# 1955

Delta R.T. 0.000 min

Lab File: BN035072.D

Acq: 13 Nov 2024 18:38

Instrument :

BNA_N

ClientSampleId :

PB164785BSD

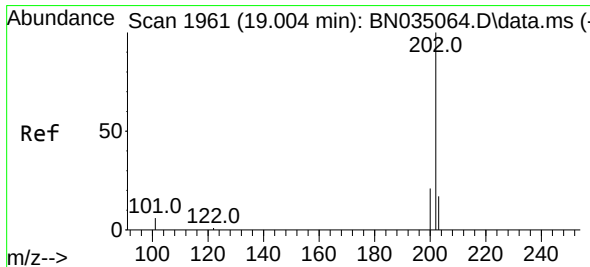
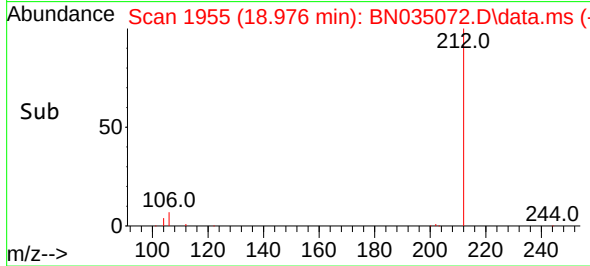
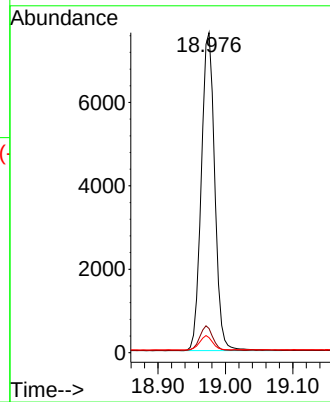
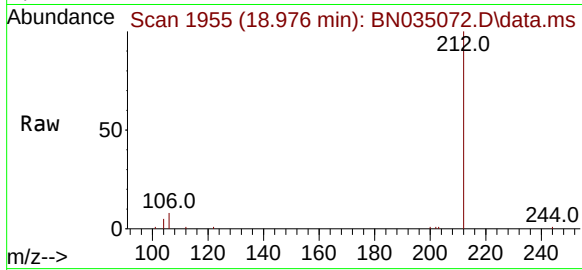
Tgt Ion:212 Resp: 10552

Ion Ratio Lower Upper

212 100

106 7.6 6.0 9.0

104 4.2 3.5 5.3



#28

Fluoranthene

Concen: 0.284 ng

RT: 19.004 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BN035072.D

Acq: 13 Nov 2024 18:38

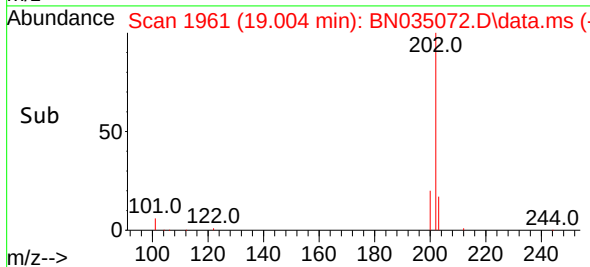
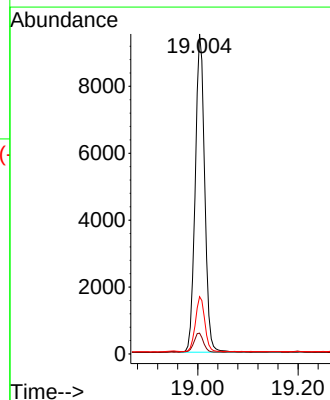
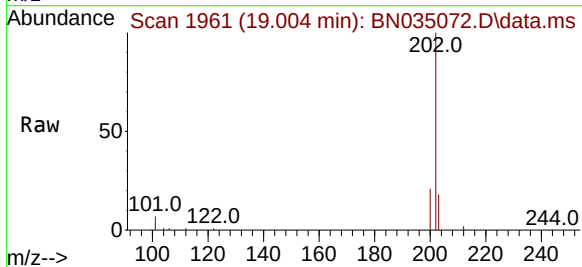
Tgt Ion:202 Resp: 12388

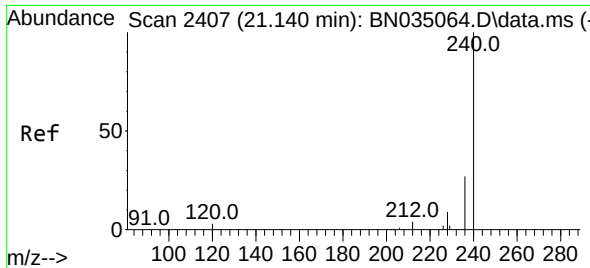
Ion Ratio Lower Upper

202 100

101 6.1 5.2 7.8

203 17.2 13.8 20.8

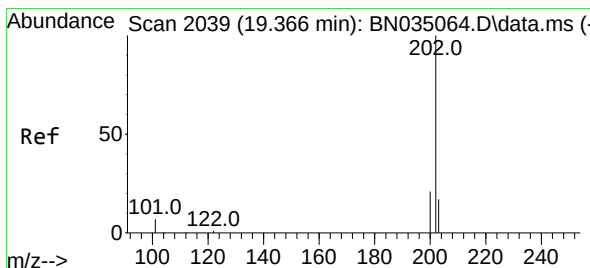
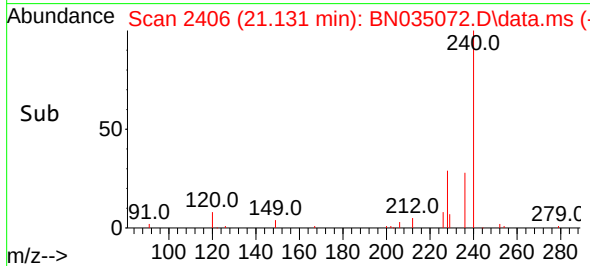
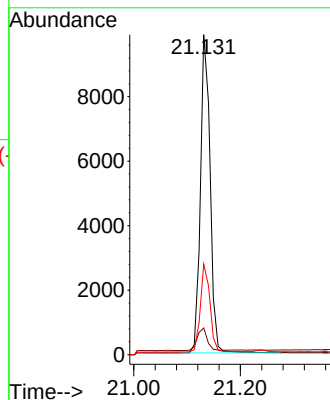
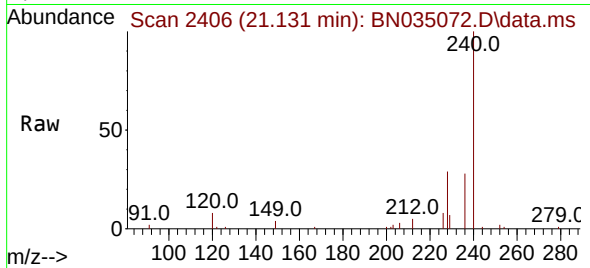




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.131 min Scan# 2406
Delta R.T. -0.009 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

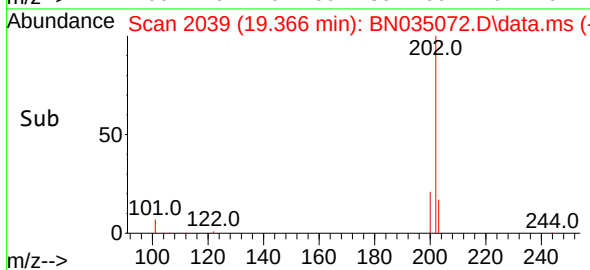
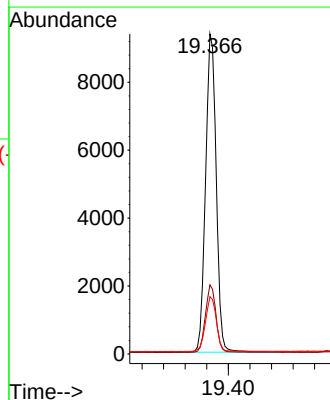
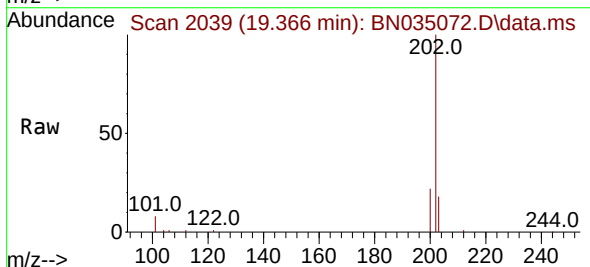
Instrument :
BNA_N
ClientSampleId :
PB164785BSD

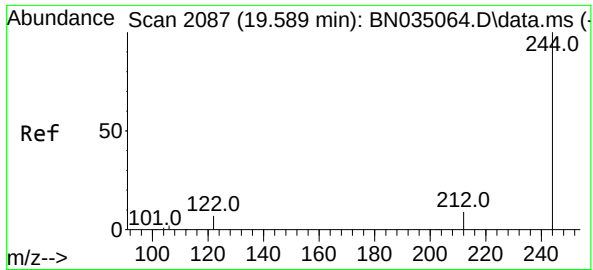
Tgt Ion:240 Resp: 12506
Ion Ratio Lower Upper
240 100
120 8.4 3.8 5.6#
236 28.3 22.2 33.2



#30
Pyrene
Concen: 0.308 ng
RT: 19.366 min Scan# 2039
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

Tgt Ion:202 Resp: 12807
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 17.8 14.2 21.4

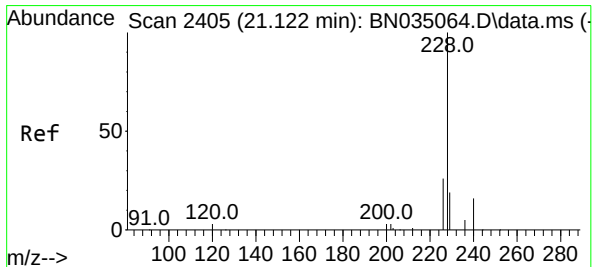
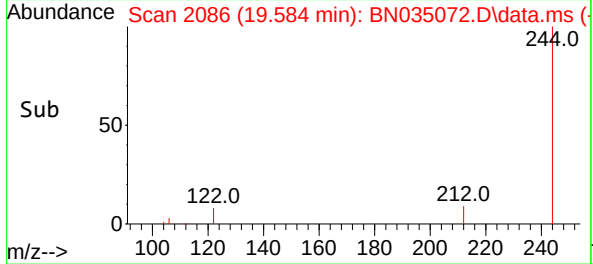
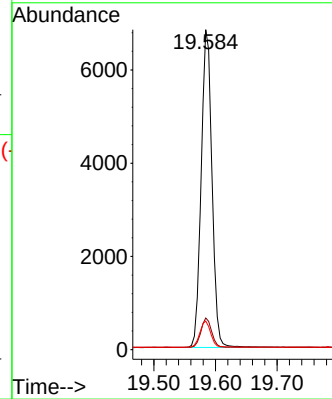
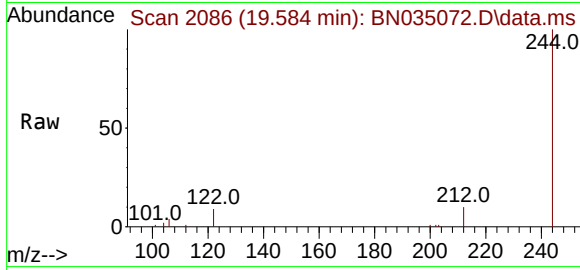




#31
Terphenyl-d14
Concen: 0.318 ng
RT: 19.584 min Scan# 2086
Delta R.T. -0.005 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

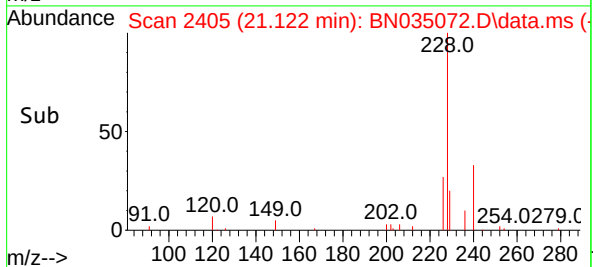
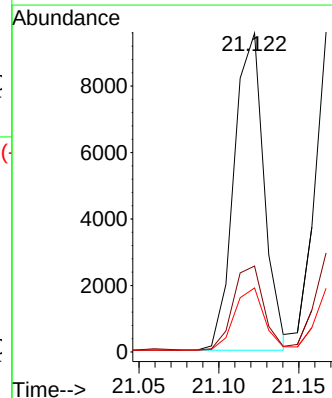
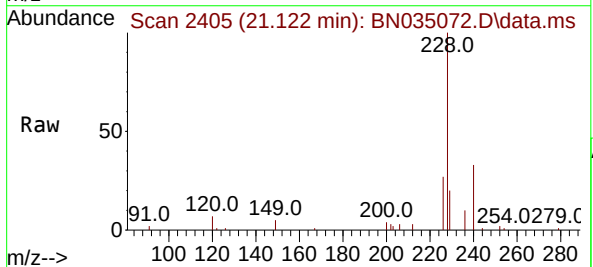
Instrument :
BNA_N
ClientSampleId :
PB164785BSD

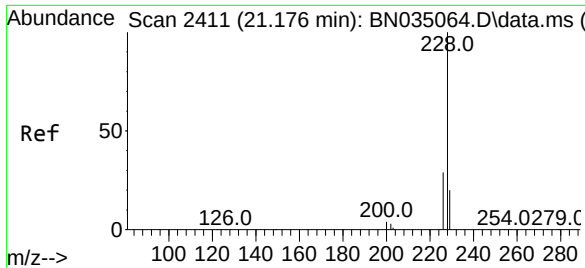
Tgt Ion:244	Resp:	8336
Ion Ratio	Lower	Upper
244	100	
212	9.9	7.6 11.4
122	8.9	6.1 9.1



#32
Benzo(a)anthracene
Concen: 0.286 ng
RT: 21.122 min Scan# 2405
Delta R.T. 0.000 min
Lab File: BN035072.D
Acq: 13 Nov 2024 18:38

Tgt Ion:228	Resp:	12448
Ion Ratio	Lower	Upper
228	100	
226	27.0	21.4 32.0
229	20.1	15.7 23.5





#33

Chrysene

Concen: 0.301 ng

RT: 21.167 min Scan# 2411

Delta R.T. -0.009 min

Lab File: BN035072.D

Acq: 13 Nov 2024 18:38

Instrument :

BNA_N

ClientSampleId :

PB164785BSD

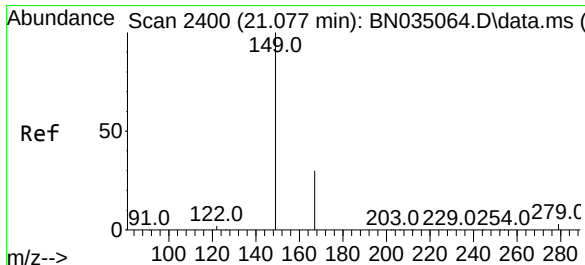
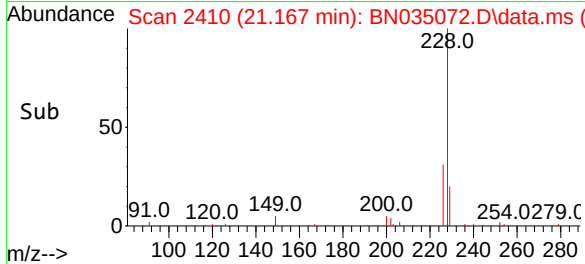
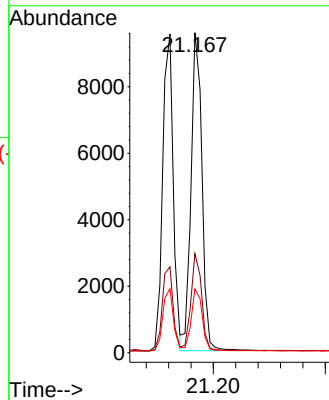
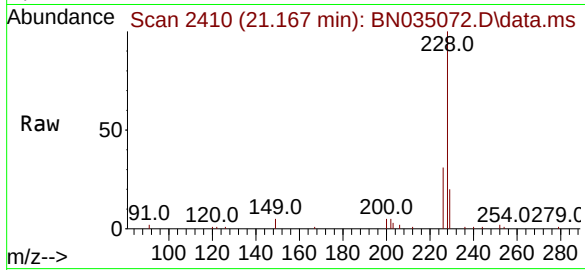
Tgt Ion:228 Resp: 13004

Ion Ratio Lower Upper

228 100

226 30.9 23.7 35.5

229 19.9 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.230 ng

RT: 21.077 min Scan# 2400

Delta R.T. 0.000 min

Lab File: BN035072.D

Acq: 13 Nov 2024 18:38

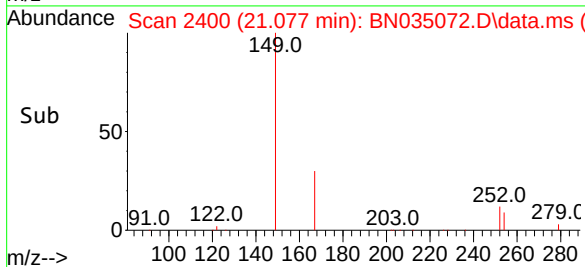
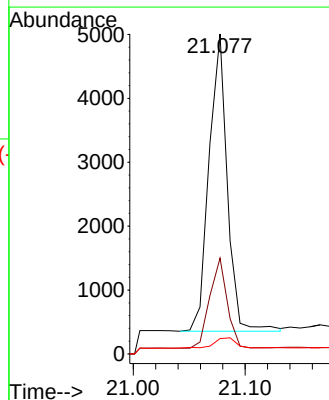
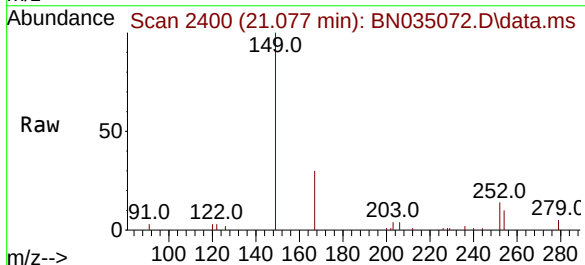
Tgt Ion:149 Resp: 5253

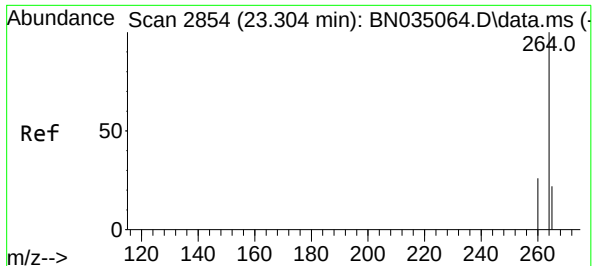
Ion Ratio Lower Upper

149 100

167 29.0 23.2 34.8

279 4.4 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.301 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035072.D

Acq: 13 Nov 2024 18:38

Instrument :

BNA_N

ClientSampleId :

PB164785BSD

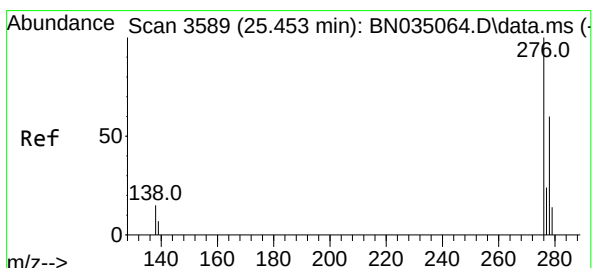
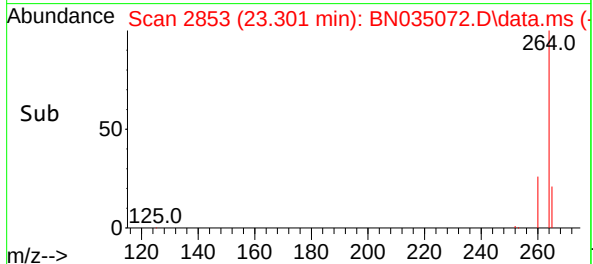
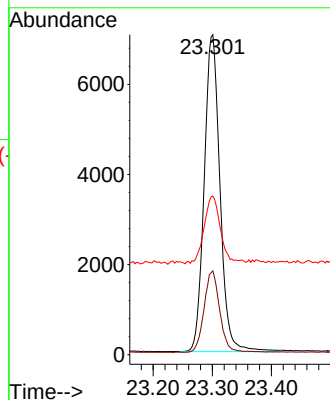
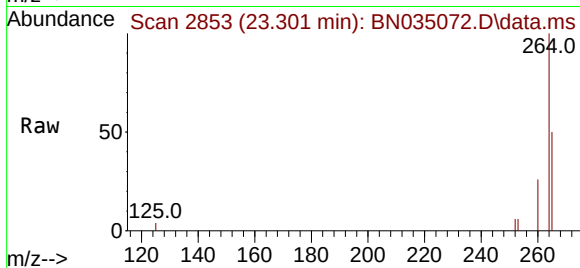
Tgt Ion:264 Resp: 13065

Ion Ratio Lower Upper

264 100

260 26.2 20.9 31.3

265 49.6 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.287 ng

RT: 25.447 min Scan# 3587

Delta R.T. -0.006 min

Lab File: BN035072.D

Acq: 13 Nov 2024 18:38

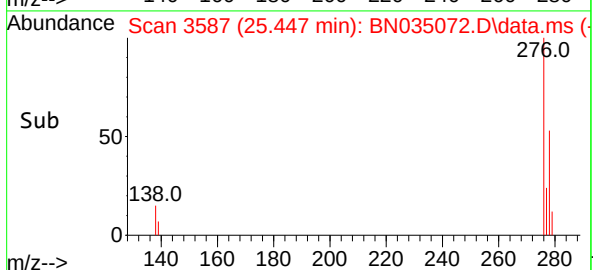
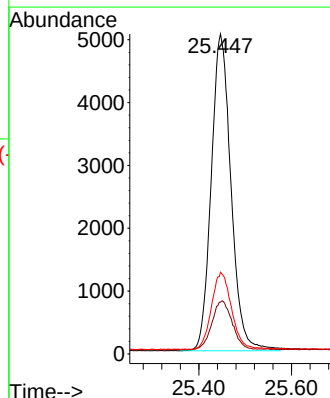
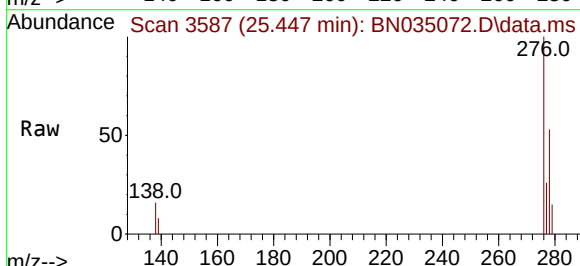
Tgt Ion:276 Resp: 14939

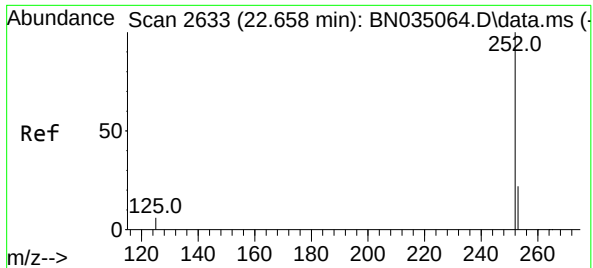
Ion Ratio Lower Upper

276 100

138 16.1 13.0 19.4

277 25.0 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.296 ng

RT: 22.655 min Scan# 2632

Delta R.T. -0.003 min

Lab File: BN035072.D

Acq: 13 Nov 2024 18:38

Instrument :

BNA_N

ClientSampleId :

PB164785BSD

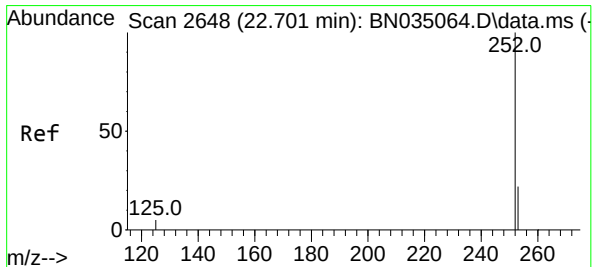
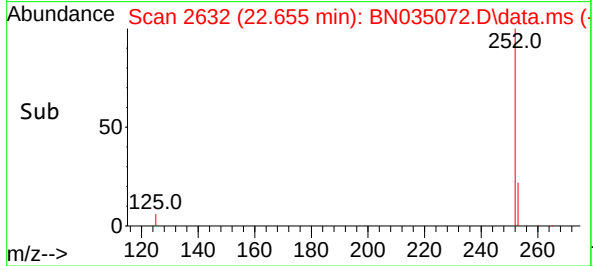
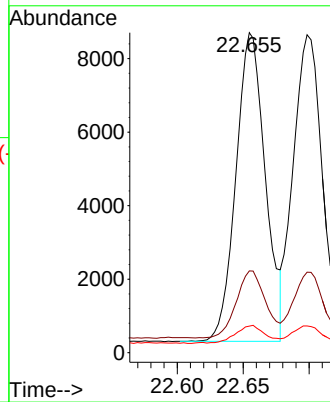
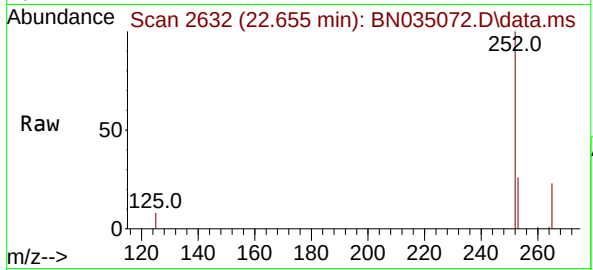
Tgt Ion:252 Resp: 13004

Ion Ratio Lower Upper

252 100

253 25.5 19.3 28.9

125 8.3 6.2 9.2



#38

Benzo(k)fluoranthene

Concen: 0.294 ng

RT: 22.698 min Scan# 2647

Delta R.T. -0.003 min

Lab File: BN035072.D

Acq: 13 Nov 2024 18:38

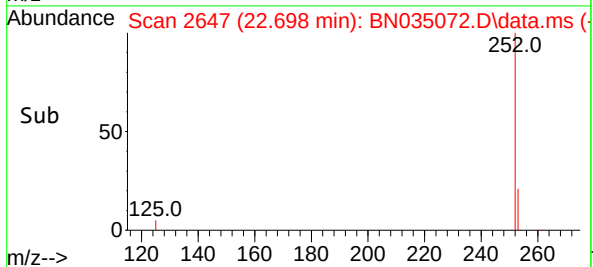
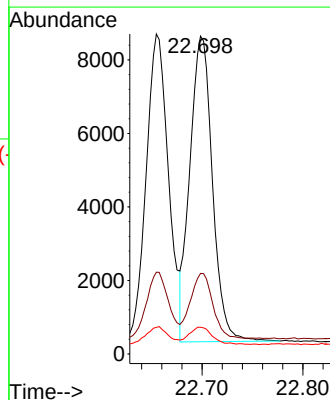
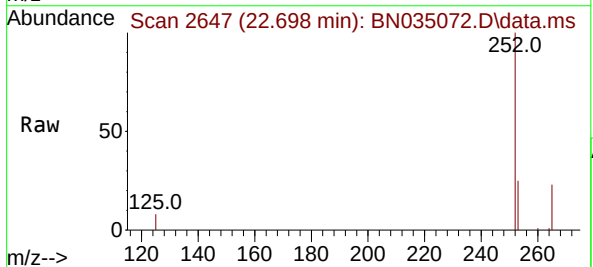
Tgt Ion:252 Resp: 12919

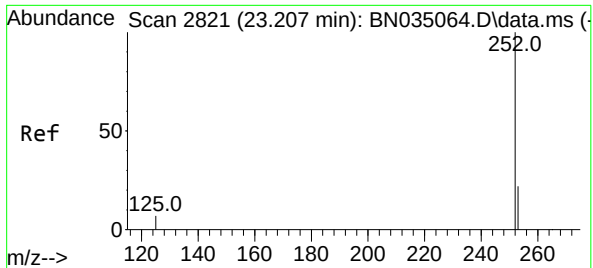
Ion Ratio Lower Upper

252 100

253 25.3 19.5 29.3

125 8.4 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.301 ng

RT: 23.204 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN035072.D

Acq: 13 Nov 2024 18:38

Instrument :

BNA_N

ClientSampleId :

PB164785BSD

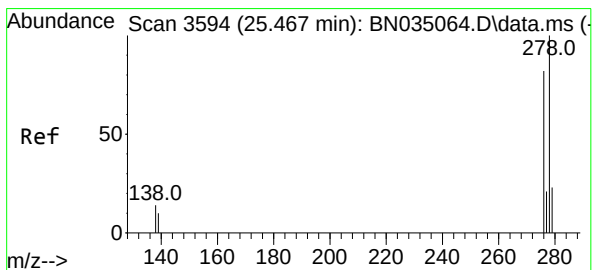
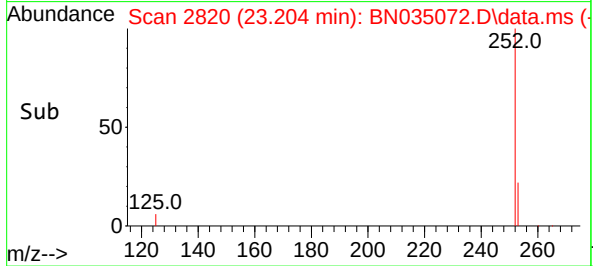
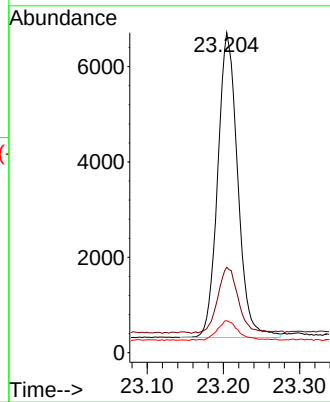
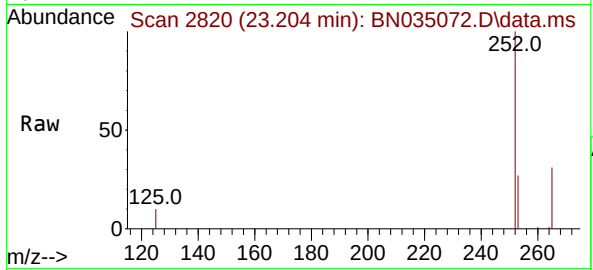
Tgt Ion:252 Resp: 11655

Ion Ratio Lower Upper

252 100

253 26.7 20.1 30.1

125 10.0 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.285 ng

RT: 25.464 min Scan# 3593

Delta R.T. -0.003 min

Lab File: BN035072.D

Acq: 13 Nov 2024 18:38

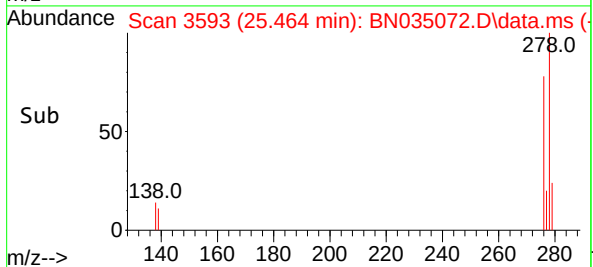
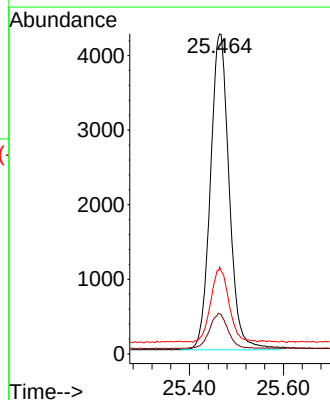
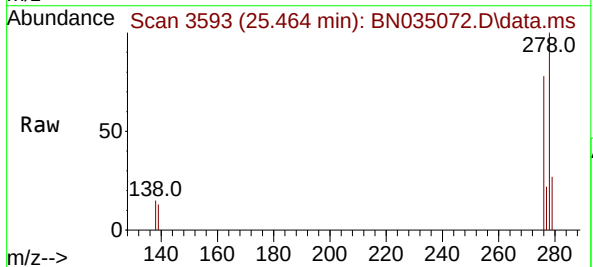
Tgt Ion:278 Resp: 11767

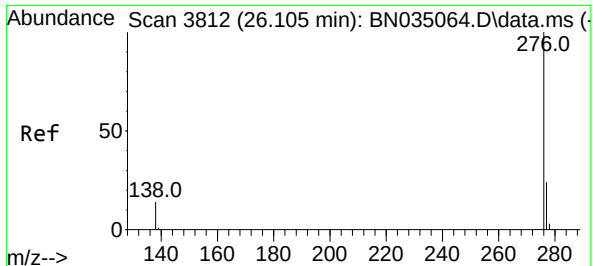
Ion Ratio Lower Upper

278 100

139 12.5 9.3 13.9

279 27.2 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 0.268 ng

RT: 26.099 min Scan# 3810

Delta R.T. -0.006 min

Lab File: BN035072.D

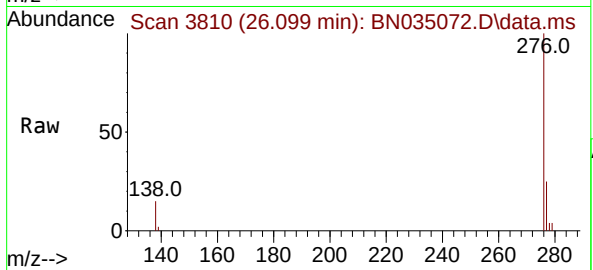
Acq: 13 Nov 2024 18:38

Instrument :

BNA_N

ClientSampleId :

PB164785BSD



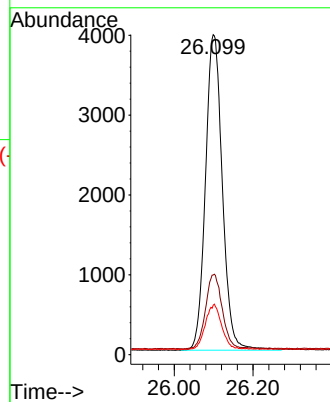
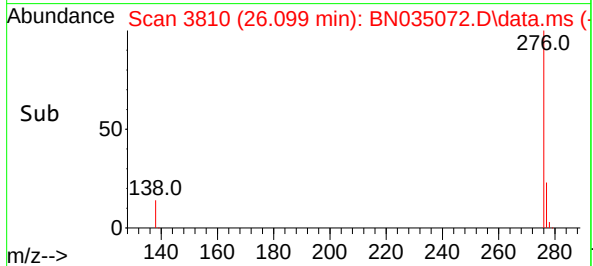
Tgt Ion:276 Resp: 11762

Ion Ratio Lower Upper

276 100

277 24.9 19.9 29.9

138 15.5 11.6 17.4



Manual Integration Report

Sequence:	BN111324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC1.6	BN035066.D	Benzo(b)fluoranthene	yogesh	11/14/2024 3:07:07 AM	mohammad	11/14/2024 3:22:04 AM	Peak Integrated by Software
SSTDICC3.2	BN035067.D	Benzo(b)fluoranthene	yogesh	11/14/2024 3:07:16 AM	mohammad	11/14/2024 3:22:04 AM	Peak Integrated by Software
SSTDICV0.4	BN035069.D	4,6-Dinitro-2-methylphe nol	yogesh	11/14/2024 3:07:24 AM	mohammad	11/14/2024 3:22:04 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

BN111424

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 # BN111324

Review By	yogesh	Review On	11/14/2024 3:07:49 AM
Supervise By	mohammad	Supervise On	11/14/2024 3:22:04 AM
SubDirectory	BN111324	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN111324
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035061.D	13 Nov 2024 12:01	RC/JU	Ok
2	SSTDICC0.1	BN035062.D	13 Nov 2024 12:40	RC/JU	Ok
3	SSTDICC0.2	BN035063.D	13 Nov 2024 13:16	RC/JU	Ok
4	SSTDICCC0.4	BN035064.D	13 Nov 2024 13:52	RC/JU	Ok
5	SSTDICC0.8	BN035065.D	13 Nov 2024 14:28	RC/JU	Ok
6	SSTDICC1.6	BN035066.D	13 Nov 2024 15:04	RC/JU	Ok,M
7	SSTDICC3.2	BN035067.D	13 Nov 2024 15:39	RC/JU	Ok,M
8	SSTDICC5.0	BN035068.D	13 Nov 2024 16:15	RC/JU	Ok
9	SSTDICV0.4	BN035069.D	13 Nov 2024 16:51	RC/JU	Ok,M
10	PB164785BL	BN035070.D	13 Nov 2024 17:27	RC/JU	Ok
11	PB164785BS	BN035071.D	13 Nov 2024 18:03	RC/JU	Ok
12	PB164785BSD	BN035072.D	13 Nov 2024 18:38	RC/JU	Ok
13	P4765-02	BN035073.D	13 Nov 2024 19:14	RC/JU	Ok
14	P4765-06	BN035074.D	13 Nov 2024 19:50	RC/JU	Ok
15	P4767-02	BN035075.D	13 Nov 2024 20:26	RC/JU	Ok,M
16	P4773-01	BN035076.D	13 Nov 2024 21:01	RC/JU	Dilution
17	P4773-02	BN035077.D	13 Nov 2024 21:37	RC/JU	Ok
18	P4774-06	BN035078.D	13 Nov 2024 22:13	RC/JU	Ok
19	P4774-02	BN035079.D	13 Nov 2024 22:49	RC/JU	ReRun
20	SSTDCCC0.4	BN035080.D	13 Nov 2024 23:24	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN111424

Review By	yogesh	Review On	11/15/2024 5:16:11 AM
Supervise By	mohammad	Supervise On	11/15/2024 5:49:46 AM
SubDirectory	BN111424	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN111324
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035081.D	14 Nov 2024 08:53	RC/JU	Ok
2	SSTDCCC0.4	BN035082.D	14 Nov 2024 10:12	RC/JU	Ok
3	PB164402BL	BN035083.D	14 Nov 2024 10:48	RC/JU	Ok
4	P4495-11	BN035084.D	14 Nov 2024 11:24	RC/JU	Dilution
5	P4495-11DL	BN035085.D	14 Nov 2024 12:31	RC/JU	Ok
6	P4495-13	BN035086.D	14 Nov 2024 13:22	RC/JU	Dilution
7	P4495-13DL	BN035087.D	14 Nov 2024 14:10	RC/JU	Ok
8	P3845-21	BN035088.D	14 Nov 2024 14:59	RC/JU	Dilution
9	P3845-21DL	BN035089.D	14 Nov 2024 15:58	RC/JU	Ok,M
10	P4774-02RE	BN035090.D	14 Nov 2024 16:35	RC/JU	Confirms
11	P4773-04	BN035091.D	14 Nov 2024 17:11	RC/JU	Ok
12	P4773-03	BN035092.D	14 Nov 2024 17:47	RC/JU	Ok
13	P4773-01DL	BN035093.D	14 Nov 2024 18:23	RC/JU	Ok
14	PB164402BS	BN035094.D	14 Nov 2024 18:59	RC/JU	Ok
15	SSTDCCC0.4	BN035095.D	14 Nov 2024 19:35	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN111324

Review By	yogesh	Review On	11/14/2024 3:07:49 AM
Supervise By	mohammad	Supervise On	11/14/2024 3:22:04 AM
SubDirectory	BN111324	HP Acquire Method	BNA_N, 8270_HP Processing Method BN111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035061.D	13 Nov 2024 12:01		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN035062.D	13 Nov 2024 12:40		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN035063.D	13 Nov 2024 13:16		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN035064.D	13 Nov 2024 13:52		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN035065.D	13 Nov 2024 14:28		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN035066.D	13 Nov 2024 15:04		RC/JU	Ok,M
7	SSTDICC3.2	SSTDICC3.2	BN035067.D	13 Nov 2024 15:39		RC/JU	Ok,M
8	SSTDICC5.0	SSTDICC5.0	BN035068.D	13 Nov 2024 16:15		RC/JU	Ok
9	SSTDICV0.4	ICVBN111324	BN035069.D	13 Nov 2024 16:51		RC/JU	Ok,M
10	PB164785BL	PB164785BL	BN035070.D	13 Nov 2024 17:27		RC/JU	Ok
11	PB164785BS	PB164785BS	BN035071.D	13 Nov 2024 18:03		RC/JU	Ok
12	PB164785BSD	PB164785BSD	BN035072.D	13 Nov 2024 18:38		RC/JU	Ok
13	P4765-02	DSN002	BN035073.D	13 Nov 2024 19:14		RC/JU	Ok
14	P4765-06	DSN003	BN035074.D	13 Nov 2024 19:50		RC/JU	Ok
15	P4767-02	TOWER-2	BN035075.D	13 Nov 2024 20:26		RC/JU	Ok,M
16	P4773-01	RW7-SP100-20241107	BN035076.D	13 Nov 2024 21:01	Need 2X Dilution	RC/JU	Dilution
17	P4773-02	RW7-SP201-20241107	BN035077.D	13 Nov 2024 21:37		RC/JU	Ok
18	P4774-06	BP-VPB-190-GW-638-6	BN035078.D	13 Nov 2024 22:13		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN111324

Review By	yogesh	Review On	11/14/2024 3:07:49 AM
Supervise By	mohammad	Supervise On	11/14/2024 3:22:04 AM
SubDirectory	BN111324	HP Acquire Method	BNA_N, 8270_HP Processing Method BN111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4774-02	VPB190-HYD-2024110	BN035079.D	13 Nov 2024 22:49	Surrogate Fail	RC/JU	ReRun
20	SSTDCCC0.4	SSTDCCC0.4EC	BN035080.D	13 Nov 2024 23:24		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN111424

Review By	yogesh	Review On	11/15/2024 5:16:11 AM
Supervise By	mohammad	Supervise On	11/15/2024 5:49:46 AM
SubDirectory	BN111424	HP Acquire Method	BNA_N, 8270_HP Processing Method BN111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035081.D	14 Nov 2024 08:53		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035082.D	14 Nov 2024 10:12		RC/JU	Ok
3	PB164402BL	PB164402BL	BN035083.D	14 Nov 2024 10:48		RC/JU	Ok
4	P4495-11	PT-BNA-SOIL	BN035084.D	14 Nov 2024 11:24	PT Sample, Need 50X Dilution	RC/JU	Dilution
5	P4495-11DL	PT-BNA-SOILDL	BN035085.D	14 Nov 2024 12:31		RC/JU	Ok
6	P4495-13	PT-PAH-SOIL	BN035086.D	14 Nov 2024 13:22	PT Sample, Need 5X Dilution	RC/JU	Dilution
7	P4495-13DL	PT-PAH-SOILDL	BN035087.D	14 Nov 2024 14:10		RC/JU	Ok
8	P3845-21	RR-PAH-WP	BN035088.D	14 Nov 2024 14:59	PT Sample Analyzed for confirmation, Need 10X Dilution	RC/JU	Dilution
9	P3845-21DL	RR-PAH-WPDL	BN035089.D	14 Nov 2024 15:58	PT Sample Analyzed for confirmation	RC/JU	Ok,M
10	P4774-02RE	VPB190-HYD-20241107	BN035090.D	14 Nov 2024 16:35	Surrogate Fail	RC/JU	Confirms
11	P4773-04	RW7-SP303-20241107	BN035091.D	14 Nov 2024 17:11		RC/JU	Ok
12	P4773-03	RW7-SP302-20241107	BN035092.D	14 Nov 2024 17:47		RC/JU	Ok
13	P4773-01DL	RW7-SP100-20241107	BN035093.D	14 Nov 2024 18:23		RC/JU	Ok
14	PB164402BS	PB164402BS	BN035094.D	14 Nov 2024 18:59		RC/JU	Ok
15	SSTDCCC0.4	SSTDCCC0.4EC	BN035095.D	14 Nov 2024 19:35		RC/JU	Ok

M : Manual Integration

SOP ID:	M3510C,3580A-Extraction SVOC-20		
Clean Up SOP #:	N/A	Extraction Start Date :	11/08/2024
Matrix :	Water	Extraction Start Time :	11:30
Weigh By:	N/A	Extraction By:	RS
Balance check:	N/A	Filter By:	RS
Balance ID:	N/A	Extraction End Date :	11/08/2024
pH Strip Lot#:	E3574	Extraction End Time :	16:30
		Concentration By:	EH
		Supervisor By :	rajesh
Extraction Method:	☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet		

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6606
Surrogate	1.0ML	0.4 PPM	SP6636
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	E3828
Baked Na2SO4	N/A	EP2556
10N NaoH	N/A	EP2550
H2SO4 1:1	N/A	EP2548
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	Envap ID:	NEVAP-02
KD Bath Temperature:	60 °C	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/8/24 16:35	RP/Ext Lab	AC/SVOC
	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 11/08/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164785BL	SBLK785	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-01
PB164785BS	SLCS785	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
PB164785BS D	SLCSD785	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			3
P4765-02	DSN002	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	B		4
P4765-06	DSN003	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	B		5
P4767-02	TOWER-2	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	B		6
P4773-01	RW7-SP100-20241107	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			7
P4773-02	RW7-SP201-20241107	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			8
P4773-03	RW7-SP302-20241107	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			9
P4773-04	RW7-SP303-20241107	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			10
P4774-02	VPB190-HYD-20241106	SVOC-SIMGrou p1	960	6	RUPESH	ritesh	1	C		11
P4774-06	BP-VPB-190-GW-638-640	SVOC-SIMGrou p1	890	6	RUPESH	ritesh	1	C		12

* Extracts relinquished on the same date as received.

164788
11:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4774

WorkList ID : 185243

Department : Extraction

Date : 11-08-2024 11:18:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4773-01	RW7-SP100-20241107	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	11/07/2024	8270-Modified
P4773-02	RW7-SP201-20241107	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	11/07/2024	8270-Modified
P4773-03	RW7-SP302-20241107	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	11/07/2024	8270-Modified
P4773-04	RW7-SP303-20241107	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	11/07/2024	8270-Modified
P4774-02	VPB190-HYD-20241106	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	11/07/2024	8270-Modified
P4774-06	BP-VPB-190-GW-638-640	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	11/06/2024	8270-Modified
P4765-02	DSN002	Water	SVOC-SIMGroup1	Cool 4 deg C	PSEG04	L23	11/05/2024	8270-Modified
P4765-06	DSN003	Water	SVOC-SIMGroup1	Cool 4 deg C	PSEG04	L23	11/07/2024	8270-Modified
P4767-02	TOWER-2	Water	SVOC-SIMGroup1	Cool 4 deg C	PSEG04	L21	11/07/2024	8270-Modified

Date/Time 11/8/24 11:20
Raw Sample Received by: RS (Eot Lm)
Raw Sample Relinquished by: ASM

Date/Time 11/8/24 11:55
Raw Sample Received by: AS
Raw Sample Relinquished by: RS (Eot Lm)

Prep Standard - Chemical Standard Summary

Order ID : P4773
Test : SVOC-SIMGroup1
Prepbatch ID : PB164785,
Sequence ID/Qc Batch ID: BN111324,BN111424,

Standard ID :
EP2548,EP2550,EP2556,SP6527,SP6547,SP6548,SP6573,SP6596,SP6597,SP6598,SP6599,SP6600,SP6601,SP6602,SP6603,SP6606,SP6636,

Chemical ID :
E3551,E3657,E3746,E3759,E3768,E3786,E3788,E3828,M5178,S10103,S10247,S10782,S10977,S 11003,S11011,S11097,S11494,S11566,S11766,S11771,S12029,S12077,S12096,S12105,S12112,S12113,S12117,S12126,S12453,W3112,

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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>
314	1.1 H2SO4 SOLN	EP2548	10/16/2024	04/16/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 10/16/2024

FROM 1000.00000ml of W3112 + 4000.00000ml of M5178 = Final Quantity: 2000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2550	10/16/2024	04/16/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/16/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 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	EP2556	11/03/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/03/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6527	06/10/2024	12/05/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/05/2024

FROM 0.10000ml of S12029 + 4.90000ml of E3759 = Final Quantity: 5.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6547	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed
SOURCE FROM 0.00630ml of S10977 + 0.01280ml of S11003 + 0.03200ml of S10782 + 0.03200ml of S11766 + 0.06400ml of S11566 + 0.06400ml of S12096 + 0.06400ml of S12117 + 19.72490ml of E3746 = Final Quantity: 20.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6548	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed
SOURCE FROM 0.87500ml of E3746 + 0.01000ml of SP6527 + 0.12500ml of SP6547 = Final Quantity: 1.010 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTTP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel
								07/17/2024

FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6596	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.02500ml of S12113 + 0.03350ml of S10103 + 0.05000ml of S11494 + 0.10000ml of S12112 + 0.12500ml of S10782 + 0.25000ml of S11097 + 0.25000ml of S12077 + 24.16650ml of E3786 = 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	SP6597	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
08/21/2024								

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6596 = 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	SP6598	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
08/21/2024								

FROM 0.68000ml of E3786 + 0.01000ml of SP6527 + 0.32000ml of SP6596 = 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	SP6599	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.84000ml of E3786 + 0.01000ml of SP6527 + 0.16000ml of SP6596 = 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	SP6600	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.92000ml of E3786 + 0.01000ml of SP6527 + 0.08000ml of SP6596 = 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	SP6601	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
08/21/2024								

FROM 0.96000ml of E3786 + 0.01000ml of SP6527 + 0.04000ml of SP6596 = 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	SP6602	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
08/21/2024								

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6601 = 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	SP6603	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.75000ml of E3786 + 0.01000ml of SP6527 + 0.25000ml of SP6601 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6606	08/20/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed
								08/21/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11771 + 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>
3491	8270-SIM-Surrogate 0.4 PPM	SP6636	10/04/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 10/18/2024
FROM 0.00400ml of S10977 + 0.00800ml of S11003 + 0.02000ml of S10782 + 99.96800ml of E3788 = Final Quantity: 100.000 ml								

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24C0162011	11/25/2024	05/25/2024 / Rajesh	05/08/2024 / Rajesh	E3746

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)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759

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)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

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)	24F1062004	02/01/2025	08/01/2024 / Rajesh	07/16/2024 / Rajesh	E3786

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	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)	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-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	03/29/2026	05/25/2022 / william	04/05/2022 / william	M5178

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	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

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	A0186160	11/21/2024	05/21/2024 / Jagrut	09/07/2022 / Christian	S10782

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10977

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	A0189418	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11003

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

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	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	12/14/2024	06/14/2024 / Rahul	11/21/2023 / Rahul	S11766

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	02/20/2025	08/20/2024 / Rahul	11/21/2023 / Rahul	S11771

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0201320	12/05/2024	06/05/2024 / Rahul	12/21/2023 / Rahul	S12029

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

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	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12096

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

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	01/09/2025	07/09/2024 / Jagrut	03/08/2024 / Rahul	S12112

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	12/05/2024	06/05/2024 / Rahul	03/15/2024 / Rahul	S12117

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	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 #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
Chemist



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Receivalon
02/07/23 by CG

Sheet 511096
to
511099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2025 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

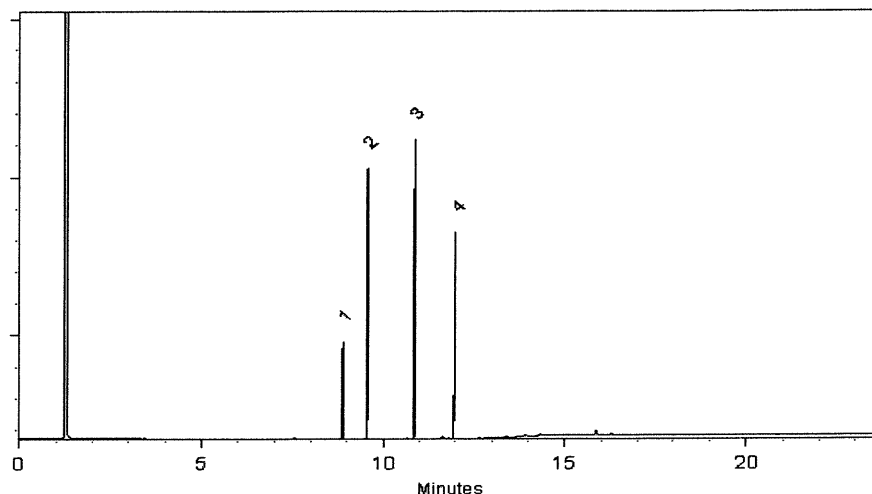
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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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
09/07/22
by
CG
S10778
to
S10782

Catalog No. : 33913 **Lot No.:** A0186160

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 : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methylnaphthalene-d10 CAS # 7297-45-2 (Lot EF-135) Purity 96%	2,015.0 µg/mL	+/- 11.8254 µg/mL +/- 90.7728 µg/mL +/- 100.7207 µg/mL	Gravimetric Unstressed Stressed
2	Fluoranthene-d10 CAS # 93951-69-0 (Lot PR-20668) Purity 99%	2,007.0 µg/mL	+/- 11.7782 µg/mL +/- 90.4107 µg/mL +/- 100.3188 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:

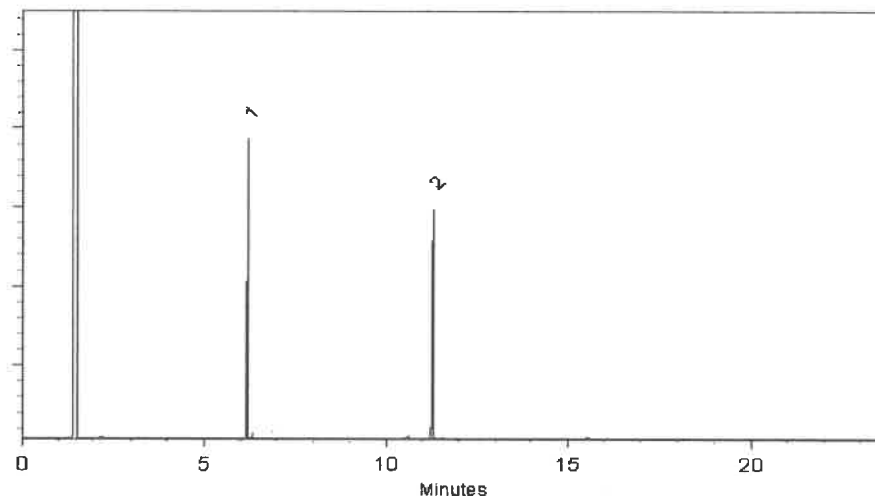
250°C

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.

John Friedline - Operations Technician I

Date Mixed: 09-Jun-2022

Balance: B442140311

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 13-Jun-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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 by
CG on
12/28/22
S10951
to
S10980

Catalog No. : 31087 **Lot No.:** A0188108
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 : August 31, 2030 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL Gravimetric +/- 294.4162 µg/mL Unstressed +/- 357.2628 µg/mL Stressed
2	Phenol-d6 CAS # 13127-88-3 Purity 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL Gravimetric +/- 293.0957 µg/mL Unstressed +/- 355.6603 µg/mL Stressed
3	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL Gravimetric +/- 292.1253 µg/mL Unstressed +/- 354.4829 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

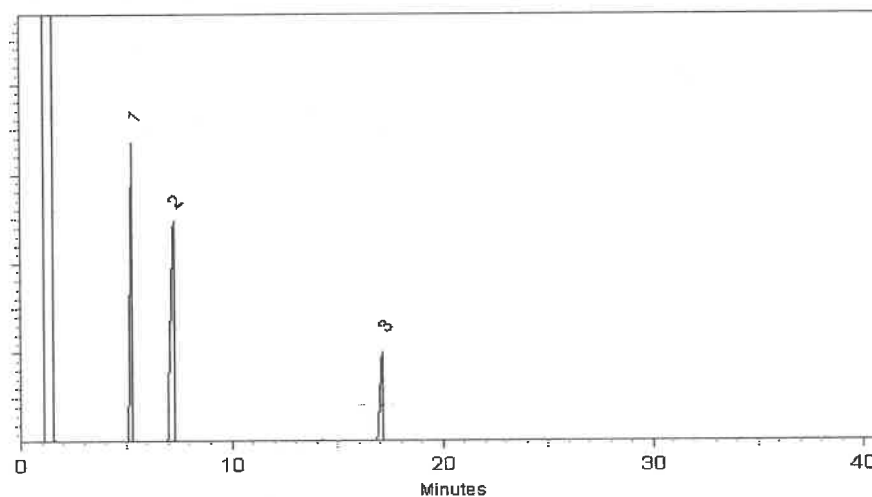
250°C

Det. Temp:

330°C

Det. Type:

FID



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: 02-Aug-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-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

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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.

Catalog No. : 31086 **Lot No.:** A0189418
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 : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

Received by
CG on
12/28/22
\$10981
to
S11010

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5 CAS # 4165-60-0 (Lot PR-29940A) Purity 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL Gravimetric +/- 225.6421 µg/mL Unstressed +/- 250.3778 µg/mL Stressed
2	2-Fluorobiphenyl CAS # 321-60-8 (Lot 00021384) Purity 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL Gravimetric +/- 226.4003 µg/mL Unstressed +/- 251.2191 µg/mL Stressed
3	p-Terphenyl-d14 CAS # 1718-51-0 (Lot PR-30504) Purity 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL Gravimetric +/- 226.4304 µg/mL Unstressed +/- 251.2524 µg/mL Stressed

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.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

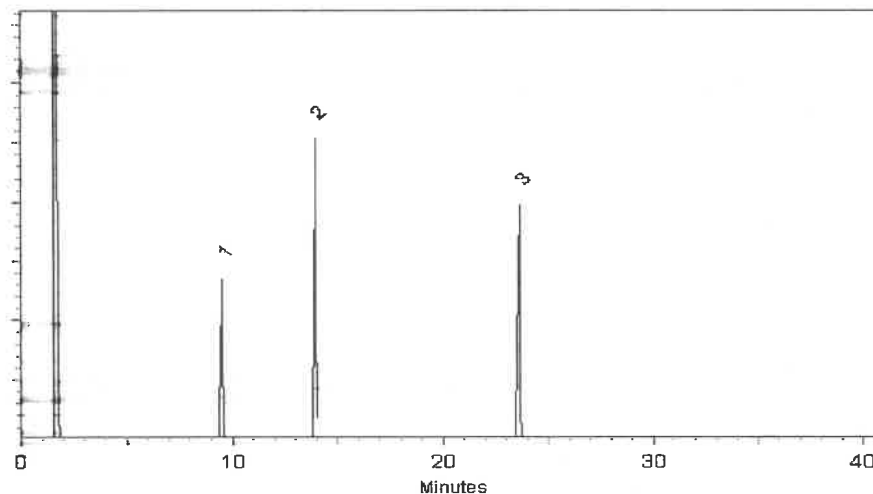
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

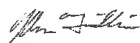
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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.


John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-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.

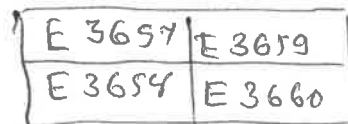
This document has been electronically produced and is valid without a signature.

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.



Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24C0162011
Manufactured Date: 2024-01-04
Expiration Date: 2025-04-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24A04224

E 3746

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24D1962005
Manufactured Date: 2024-03-16
Expiration Date: 2025-06-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	8
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid (μeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24C16563

E 3759

J. Croak
Jamie Croak
Director Quality Operations, Bioscience Production

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	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: MG24D10725

E 3768

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.: 24F1062004
Manufactured Date: 2024-04-15
Expiration Date: 2025-07-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	7
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	< 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: MG24D15750

E 3786

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

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.: 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

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

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 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 Skylane Blvd
Santa Rosa, CA 95403
(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

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
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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.: A0201940
Description: Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size: 2 mL
Expiration Date: September 30, 2025
Handling: This product is photosensitive.
Pkg Amt: > 1 mL
Storage: 10°C or colder
Ship: Ambient

511539
↓
51568
7.6
0911

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	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

REVIEWED

By Jennifer Pollino at 7:10 am, Sep 13, 2023

Sam Moodler - Operations Tech I

Date Mixed: 13-Sep-2023

Balance: B345965662

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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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:

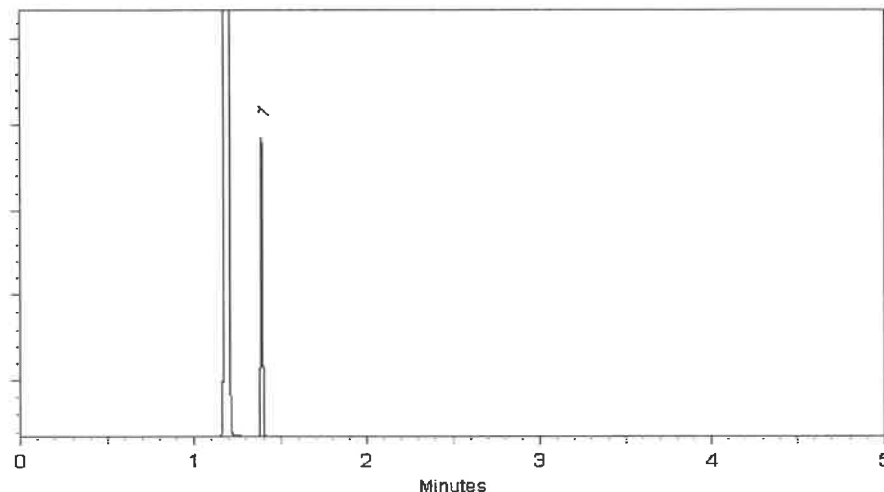
FID

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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Certificate of Analysis

chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

511749
↓
511794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

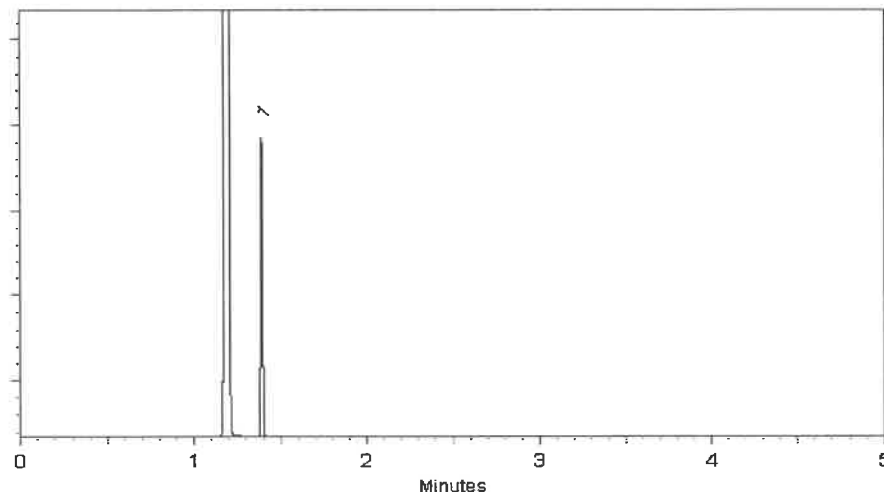
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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.:** A0201320

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 : July 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12013
↓
S12042 } RC
12/26/23

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%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* 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:

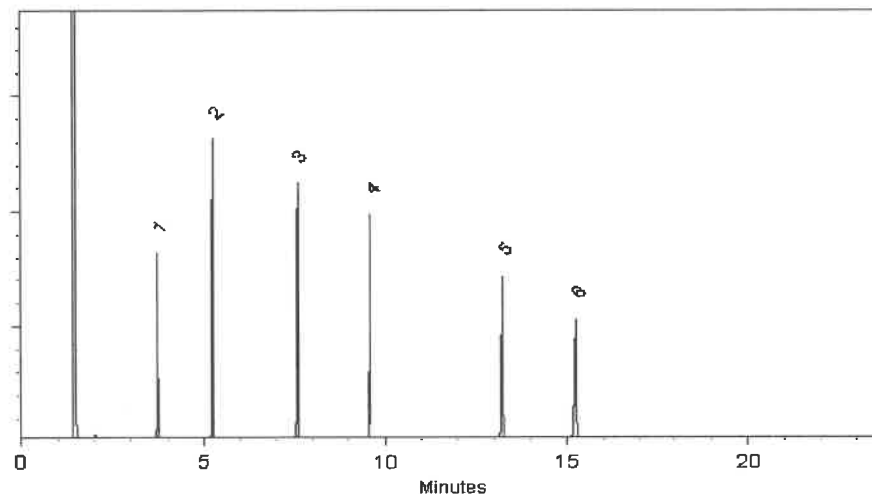
FID

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.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023

Balance Serial # B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
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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

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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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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Fax: 1-814-353-1309

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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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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Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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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	18
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



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. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓ 7/24/24
S12508 }

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



SHIPPING DOCUMENTS

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CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net				Chemtech Project Number: P4773																				
						COC Number:																				
CLIENT INFORMATION			PROJECT INFORMATION					BILLING INFORMATION																		
COMPANY: Tetra Tech			PROJECT NAME: NWIRP Bethpage					BILL TO:					PO#													
ADDRESS: 4433 Corporation Ln, Suite 300			PROJECT #: 112G08005-WE13 LOCATION: RW7B					ADDRESS:																		
CITY: Virginia Beach STATE: VA ZIP: 23462			PROJECT MANAGER: Ernie Wu					CITY:					STATE: ZIP:													
ATTENTION: Ernie Wu			E-MAIL: ernie.wu@tetratech.com					ATTENTION:					PHONE:													
PHONE: 757-466-4901 FAX: 757-461-4148			PHONE: 757-466-4901 FAX: 757-461-4148																							
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION					ANALYSIS																		
FAX: _____ 10 _____ DAYS* HARD COPY: _____ 10 _____ DAYS* EDD _____ 10 _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS			☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____					1,4-Dioxane SW846 8270 SIM <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">1</td><td style="width: 20px;">2</td><td style="width: 20px;">3</td><td style="width: 20px;">4</td><td style="width: 20px;">5</td><td style="width: 20px;">6</td><td style="width: 20px;">7</td><td style="width: 20px;">8</td><td style="width: 20px;">9</td> </tr> </table>										1	2	3	4	5	6	7	8	9
1	2	3	4	5	6	7	8	9																		
								PRESERVATIVES																		
								COMMENTS																		
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION		SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	A	B									<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other							
			COMP	GRAB	DATE	TIME	1		2	3	4	5	6	7	8	9										
1.	RW7-SP100-20241107		GW		x	11/7/24	10:15	1	x																	
2.	RW7-SP201-20241107		GW		x	11/7/24	10:17	1	x																	
3.	RW7-SP302-20241107		GW		x	11/7/24	10:27	1	x																	
4.	RW7-SP303-20241107		GW		x	11/7/24	10:29	1	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	1530	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp <u>2.1c</u> MeOH extraction requires an additional 4oz. Jar for percent solid Comments:
1.	11/7/24 1530		11-7-24	
RELINQUISHED BY	DATE/TIME	RECEIVED BY		
2.	DATE/TIME	RECEIVED FOR LAB BY		
3.	11-7-24			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035066.D
 Acq On : 13 Nov 2024 15:04
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Nov 13 16:44:39 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

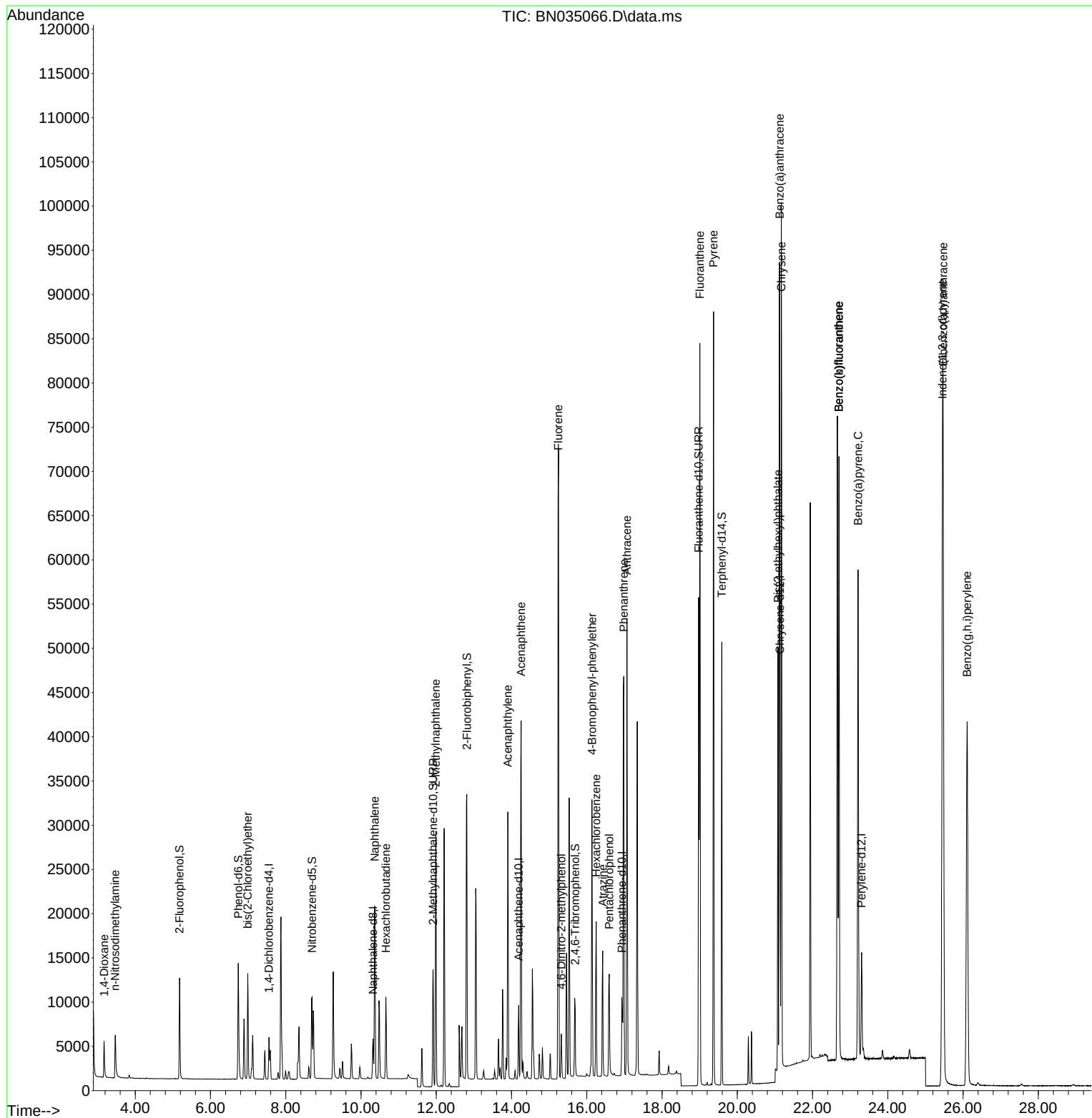
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2280	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	5826	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	4517	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	12068	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	13823	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	15060	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	9427	1.629	ng	0.00
5) Phenol-d6	6.737	99	12023	1.657	ng	0.00
8) Nitrobenzene-d5	8.696	82	8306	1.643	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	17545	1.690	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	5402	1.659	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	30472	1.661	ng	0.00
27) Fluoranthene-d10	18.973	212	61972	1.676	ng	0.00
31) Terphenyl-d14	19.587	244	47914	1.652	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.169	88	3351	1.618	ng	98
3) n-Nitrosodimethylamine	3.465	42	3168	1.647	ng	# 97
6) bis(2-Chloroethyl)ether	6.990	93	9071	1.665	ng	99
9) Naphthalene	10.362	128	25283	1.662	ng	98
10) Hexachlorobutadiene	10.660	225	7338	1.646	ng	# 99
12) 2-Methylnaphthalene	11.988	142	18997	1.693	ng	99
16) Acenaphthylene	13.901	152	32064	1.661	ng	99
17) Acenaphthene	14.254	154	20910	1.653	ng	99
18) Fluorene	15.238	166	30868	1.659	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	4259	1.695	ng	# 84
21) 4-Bromophenyl-phenylether	16.138	248	12888	1.676	ng	# 86
22) Hexachlorobenzene	16.250	284	13172	1.651	ng	99
23) Atrazine	16.424	200	11471	1.663	ng	# 93
24) Pentachlorophenol	16.597	266	6275	1.683	ng	98
25) Phenanthrene	16.982	178	52915	1.666	ng	99
26) Anthracene	17.069	178	49046	1.681	ng	100
28) Fluoranthene	19.006	202	73694	1.687	ng	100
30) Pyrene	19.368	202	75558	1.641	ng	100
32) Benzo(a)anthracene	21.125	228	78298	1.627	ng	100
33) Chrysene	21.169	228	78533	1.647	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	38807	1.549	ng	99
36) Indeno(1,2,3-cd)pyrene	25.452	276	99936	1.663	ng	100
37) Benzo(b)fluoranthene	22.701	252	84960	1.677	ng	96
38) Benzo(k)fluoranthene	22.701	252	84960	1.676	ng	# 95
39) Benzo(a)pyrene	23.209	252	74668	1.675	ng	# 94
40) Dibenzo(a,h)anthracene	25.469	278	79628	1.673	ng	98
41) Benzo(g,h,i)perylene	26.107	276	83498	1.649	ng	98

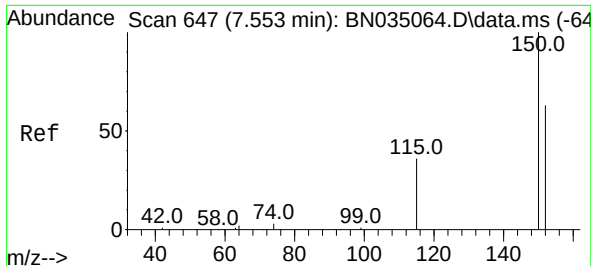
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035066.D
Acq On : 13 Nov 2024 15:04
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

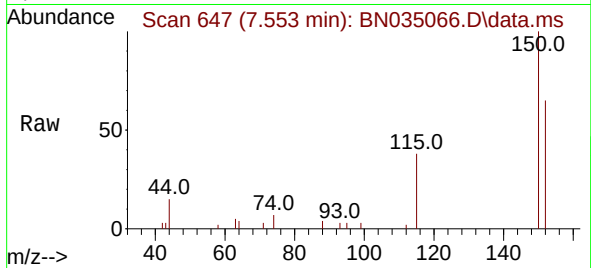
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration



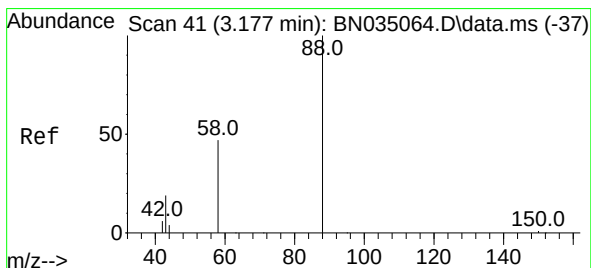
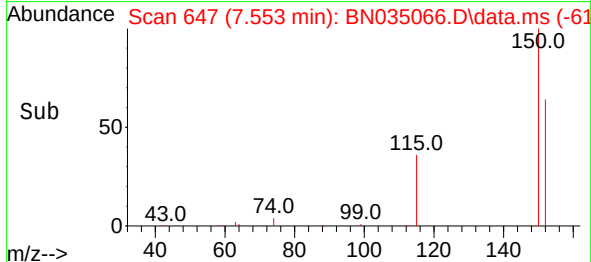
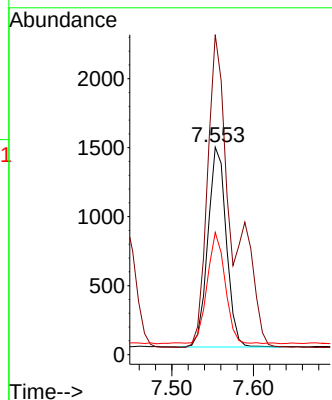


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

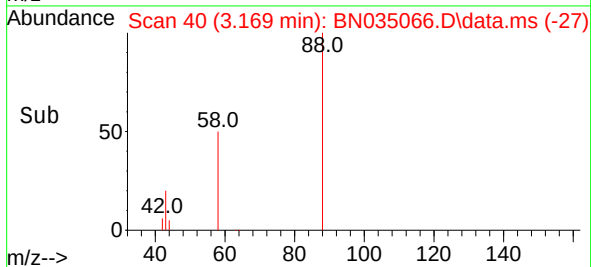
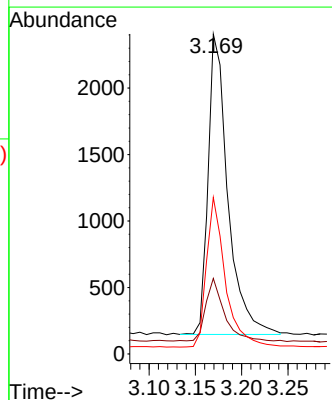
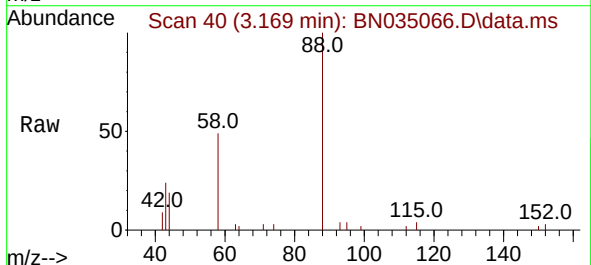


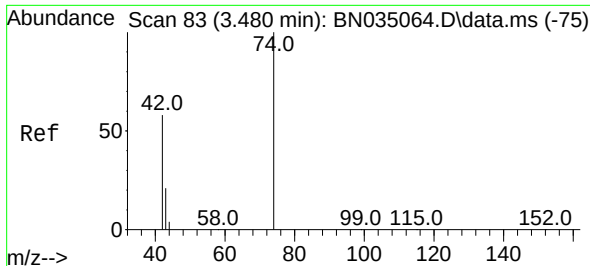
Tgt Ion:152 Resp: 2280
Ion Ratio Lower Upper
152 100
150 154.2 124.5 186.7
115 58.9 47.8 71.6



#2
1,4-Dioxane
Concen: 1.618 ng
RT: 3.169 min Scan# 40
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion: 88 Resp: 3351
Ion Ratio Lower Upper
88 100
43 20.3 16.9 25.3
58 47.7 39.0 58.4

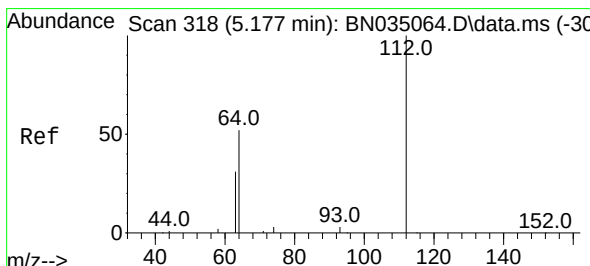
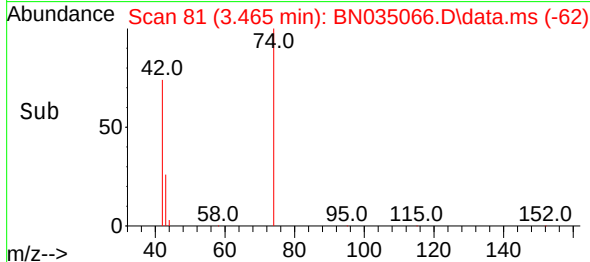
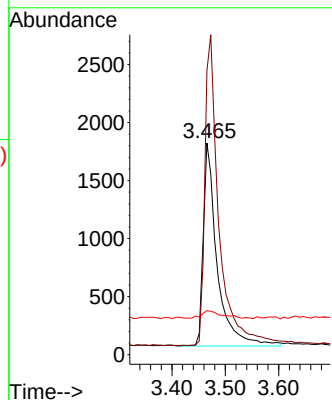
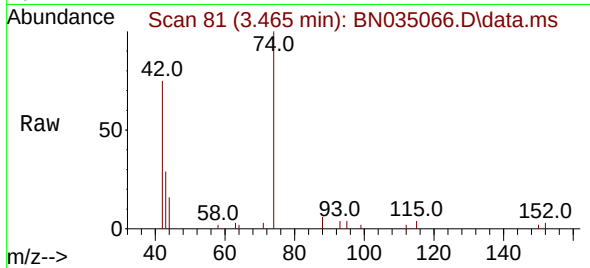




#3
 n-Nitrosodimethylamine
 Concen: 1.647 ng
 RT: 3.465 min Scan# 81
 Delta R.T. -0.015 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

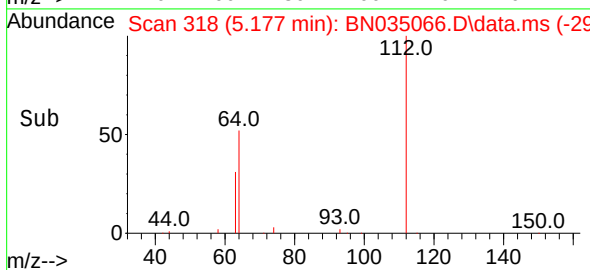
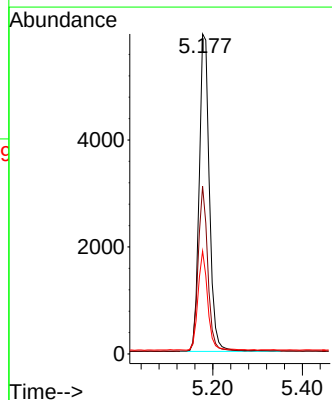
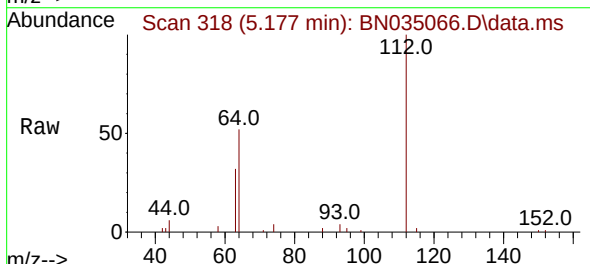
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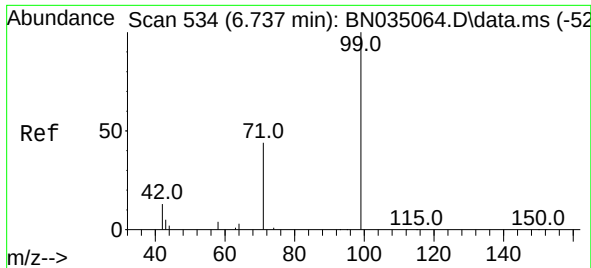
Tgt Ion: 42 Resp: 3168
 Ion Ratio Lower Upper
 42 100
 74 155.0 120.8 181.2
 44 6.3 2.9 4.3#



#4
 2-Fluorophenol
 Concen: 1.629 ng
 RT: 5.177 min Scan# 318
 Delta R.T. -0.000 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

Tgt Ion: 112 Resp: 9427
 Ion Ratio Lower Upper
 112 100
 64 48.8 39.7 59.5
 63 29.4 23.0 34.4

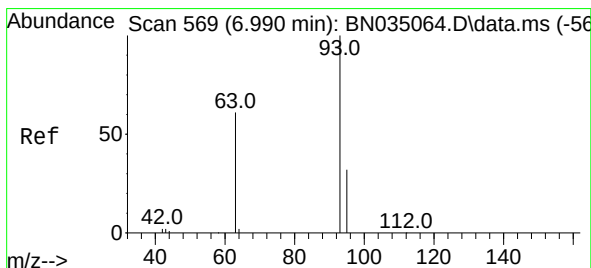
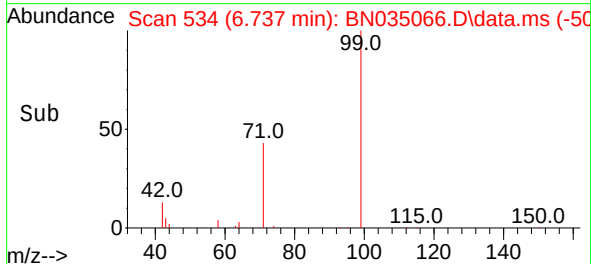
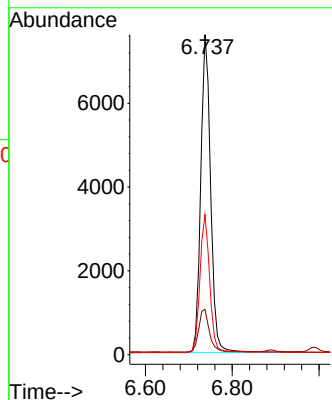
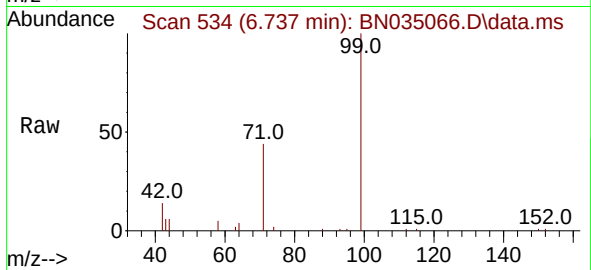




#5
Phenol-d6
Concen: 1.657 ng
RT: 6.737 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

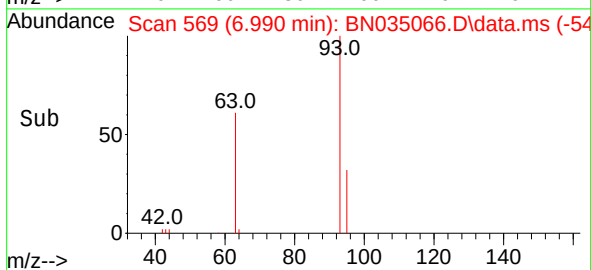
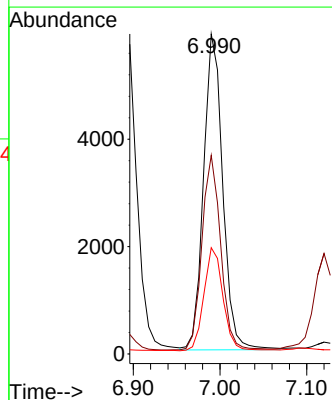
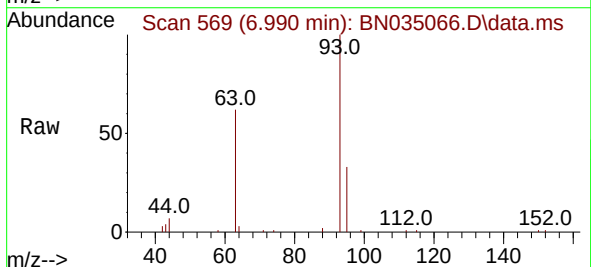
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

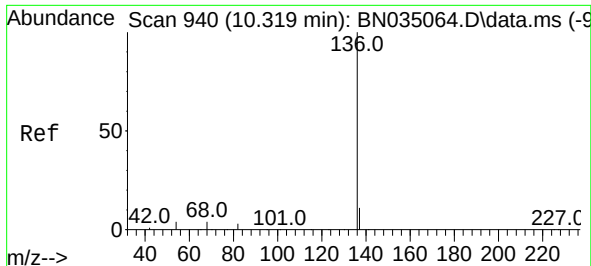
Tgt Ion: 99 Resp: 12023
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 42.9 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 1.665 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion: 93 Resp: 9071
Ion Ratio Lower Upper
93 100
63 60.3 47.4 71.2
95 32.3 26.2 39.4

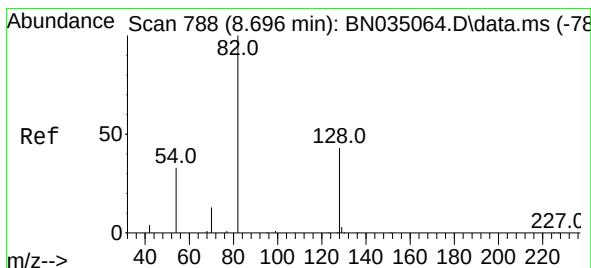
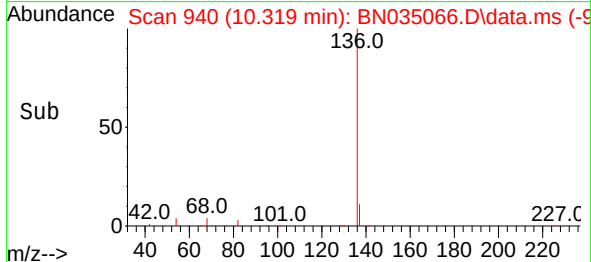
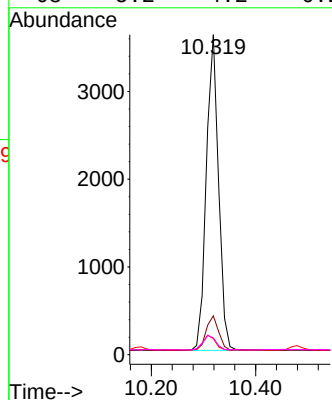
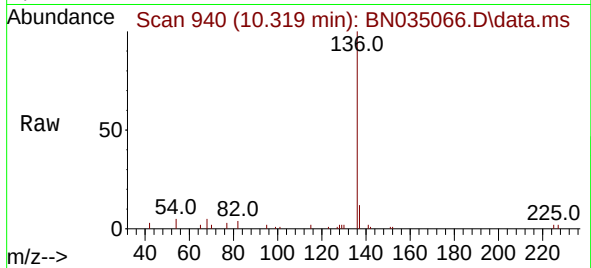




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

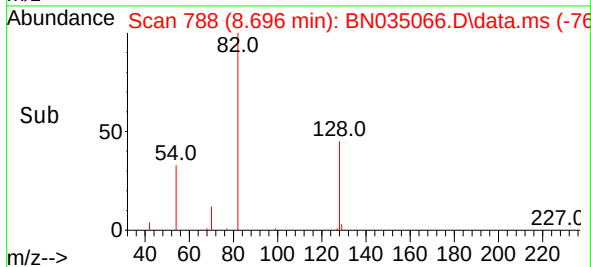
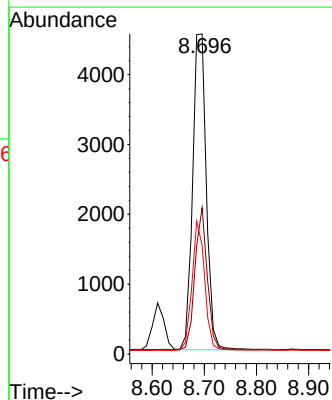
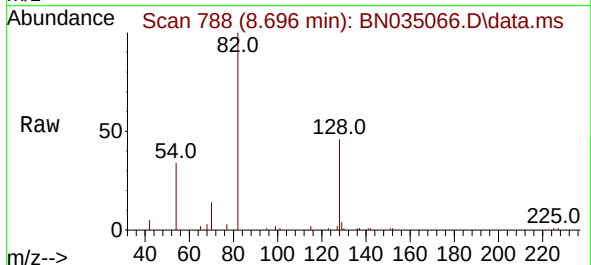
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ClientSampleId :
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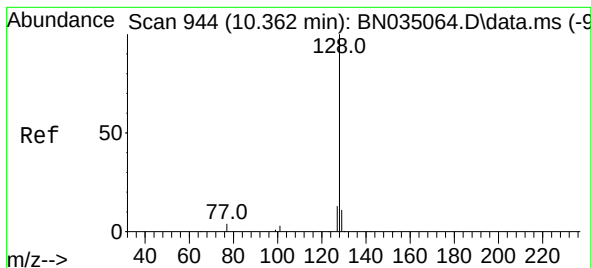
Tgt Ion:	136	Resp:	5826
Ion Ratio	Lower	Upper	
136	100		
137	12.2	9.8	14.8
54	5.0	4.0	6.0
68	5.2	4.2	6.2



#8
Nitrobenzene-d5
Concen: 1.643 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:	82	Resp:	8306
Ion Ratio	Lower	Upper	
82	100		
128	45.7	36.5	54.7
54	34.0	28.7	43.1





#9

Naphthalene

Concen: 1.662 ng

RT: 10.362 min Scan# 944

Delta R.T. -0.000 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

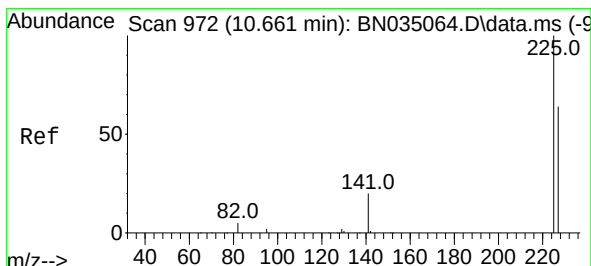
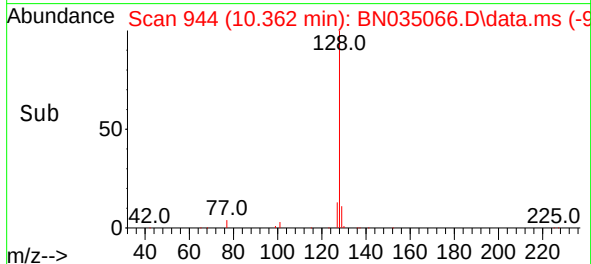
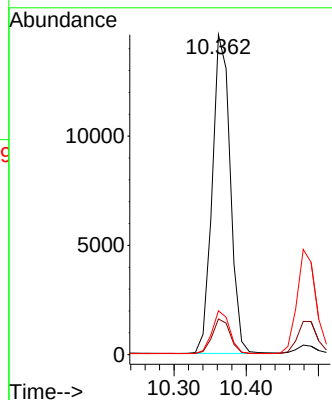
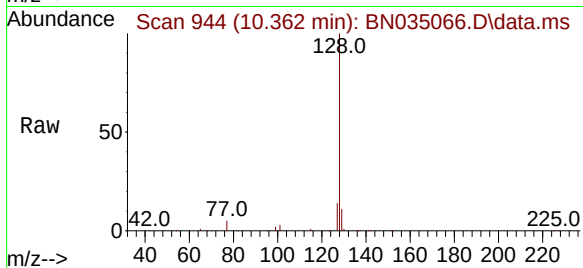
Tgt Ion:128 Resp: 25283

Ion Ratio Lower Upper

128 100

129 11.2 9.6 14.4

127 13.7 11.6 17.4



#10

Hexachlorobutadiene

Concen: 1.646 ng

RT: 10.660 min Scan# 972

Delta R.T. -0.000 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

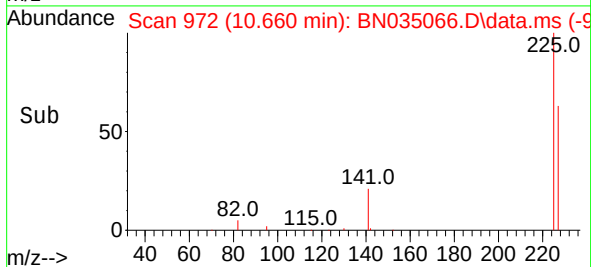
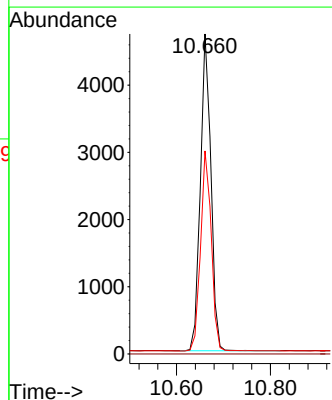
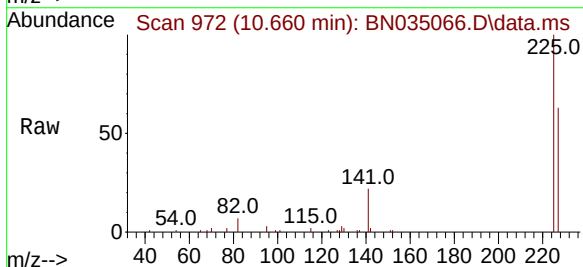
Tgt Ion:225 Resp: 7338

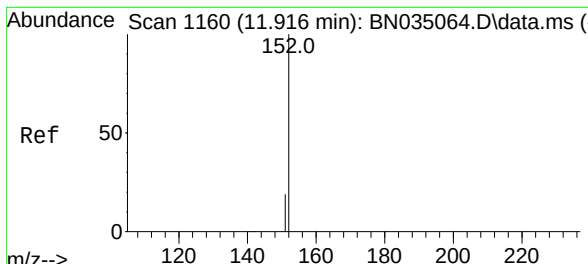
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.0 51.5 77.3



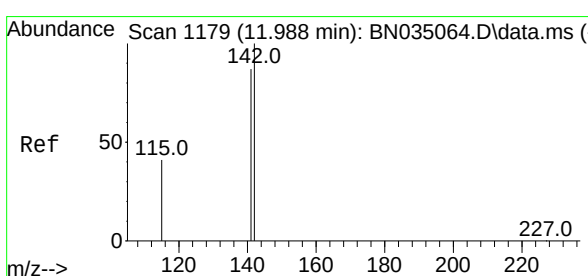
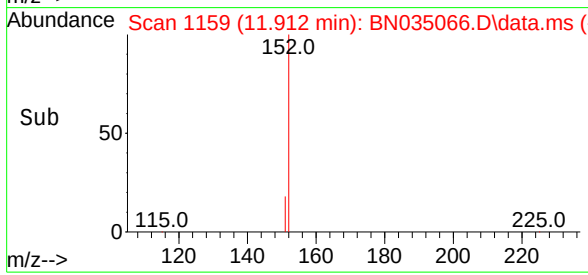
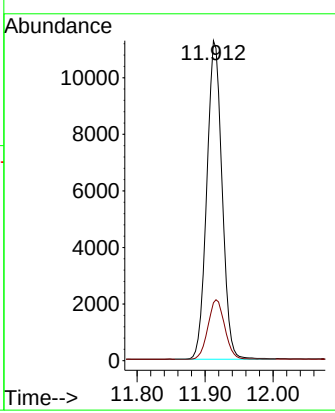
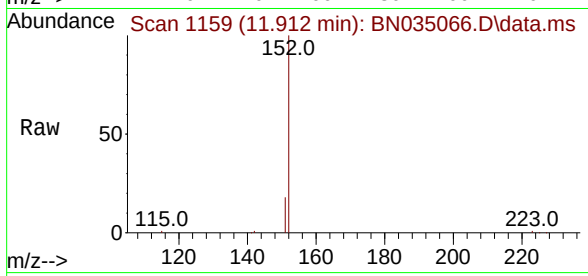


#11
2-Methylnaphthalene-d10
Concen: 1.690 ng
RT: 11.912 min Scan# 1159
Delta R.T. -0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 17545

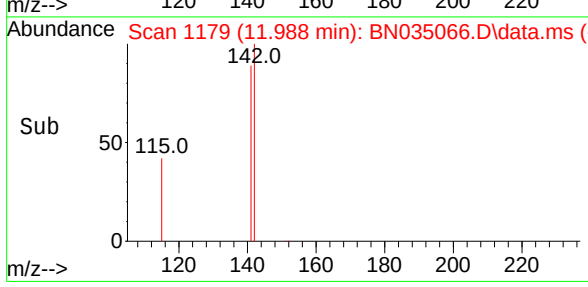
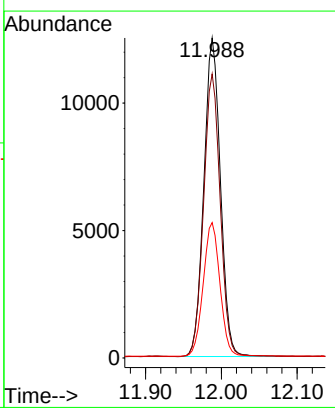
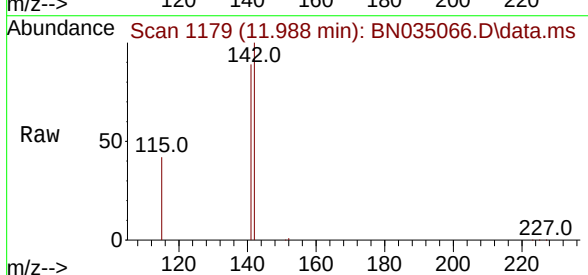
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.2	24.4

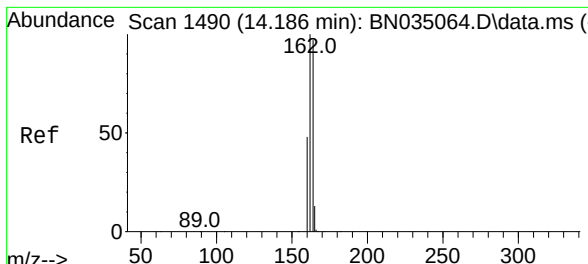


#12
2-Methylnaphthalene
Concen: 1.693 ng
RT: 11.988 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:142 Resp: 18997

Ion	Ratio	Lower	Upper
142	100		
141	88.8	70.1	105.1
115	42.3	34.4	51.6

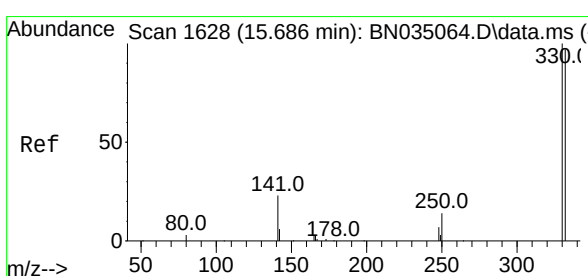
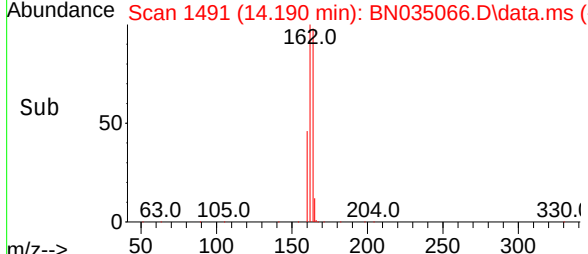
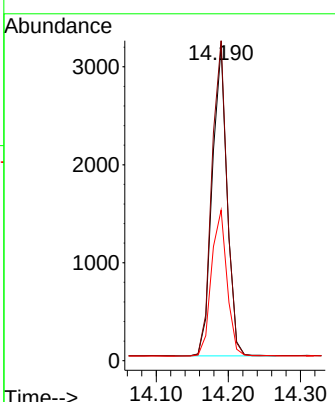
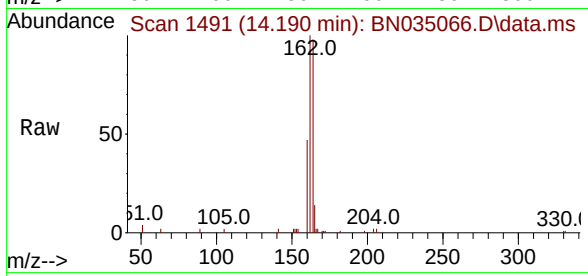




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.190 min Scan# 14
 Delta R.T. 0.004 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

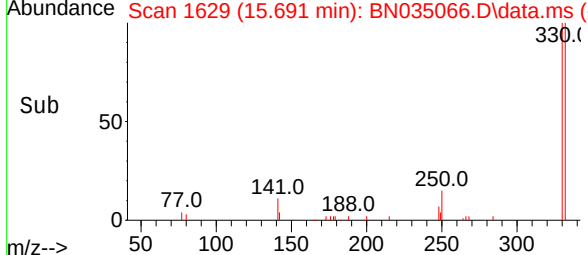
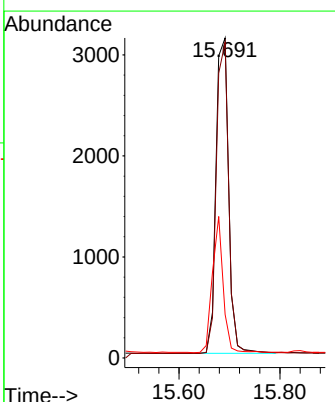
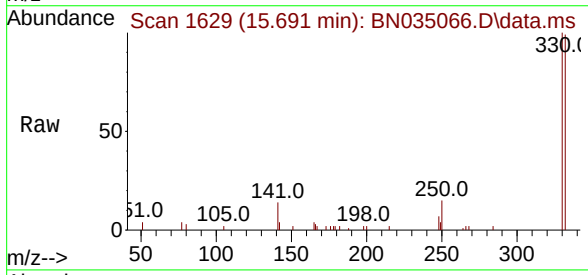
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

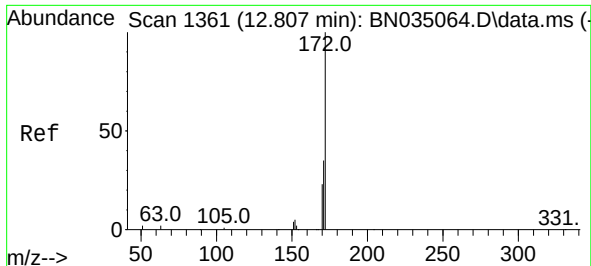
Tgt Ion:	164	Resp:	4517
Ion Ratio	Lower	Upper	
164	100		
162	101.8	82.2	123.2
160	47.9	40.2	60.4



#14
 2,4,6-Tribromophenol
 Concen: 1.659 ng
 RT: 15.691 min Scan# 1629
 Delta R.T. 0.005 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

Tgt Ion:	330	Resp:	5402
Ion Ratio	Lower	Upper	
330	100		
332	96.8	76.9	115.3
141	37.2	29.6	44.4

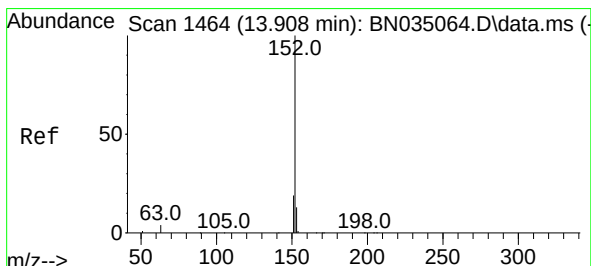
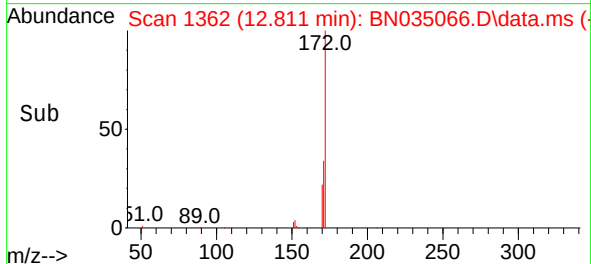
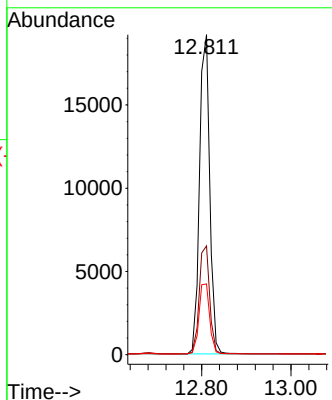
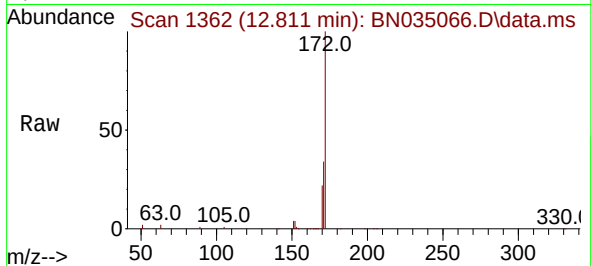




#15
2-Fluorobiphenyl
Concen: 1.661 ng
RT: 12.811 min Scan# 1362
Delta R.T. 0.004 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

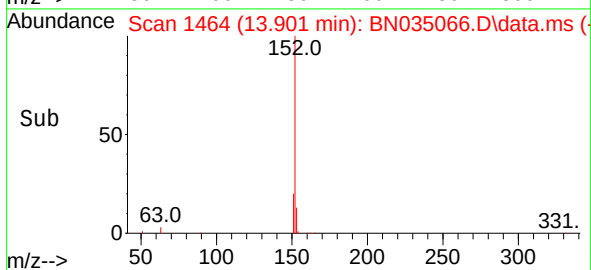
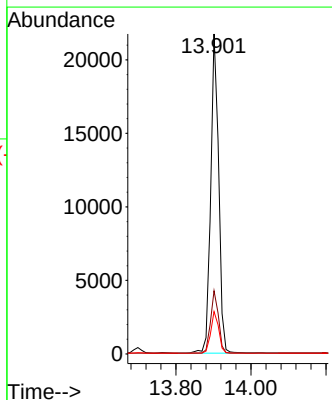
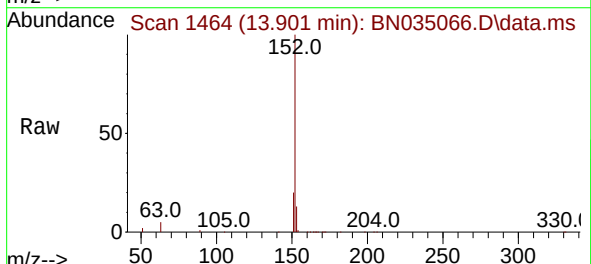
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

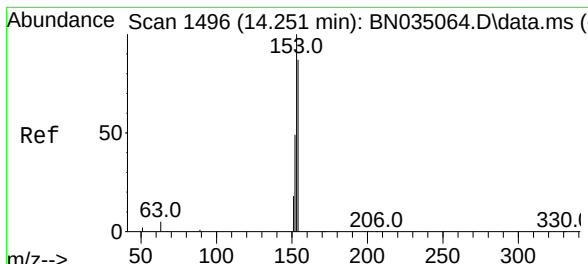
Tgt Ion:172 Resp: 30472
Ion Ratio Lower Upper
172 100
171 34.0 28.2 42.4
170 22.1 19.0 28.6



#16
Acenaphthylene
Concen: 1.661 ng
RT: 13.901 min Scan# 1464
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:152 Resp: 32064
Ion Ratio Lower Upper
152 100
151 19.5 15.8 23.8
153 13.1 10.2 15.4



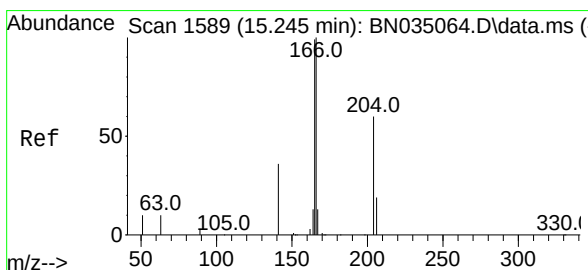
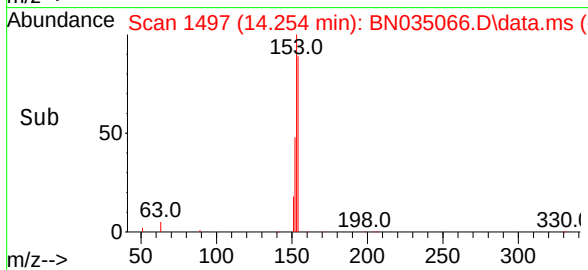
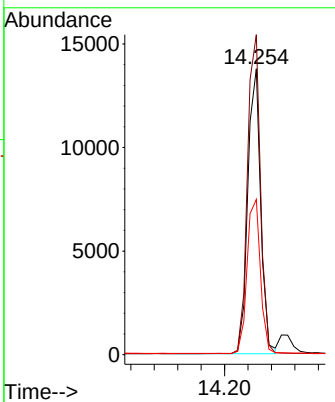
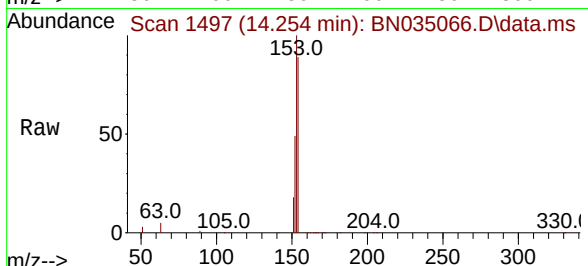


#17
 Acenaphthene
 Concen: 1.653 ng
 RT: 14.254 min Scan# 1497
 Delta R.T. 0.004 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Tgt Ion:154 Resp: 20910

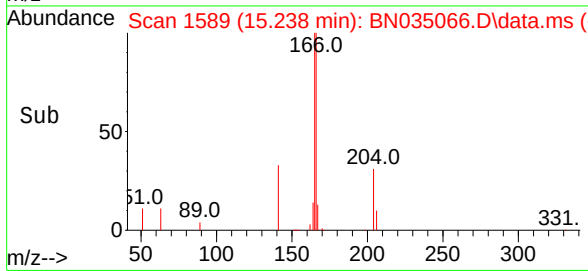
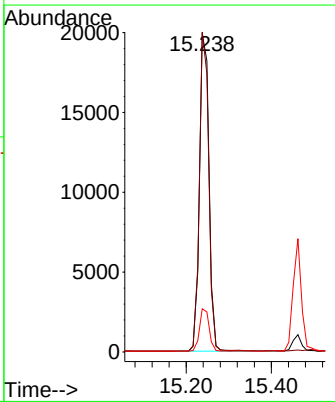
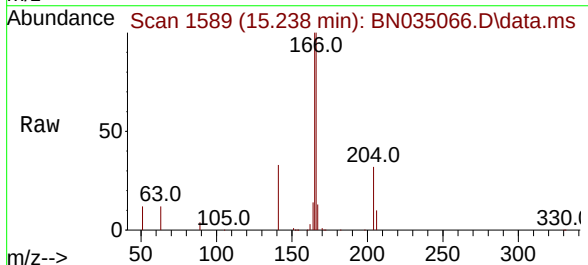
Ion	Ratio	Lower	Upper
154	100		
153	113.4	91.6	137.4
152	56.5	45.8	68.6

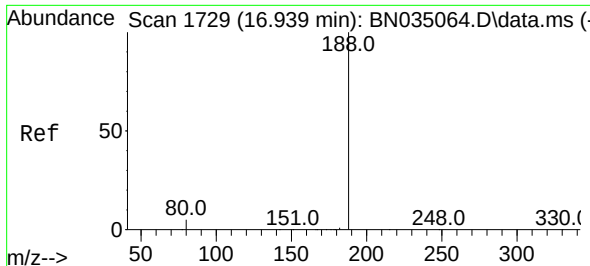


#18
 Fluorene
 Concen: 1.659 ng
 RT: 15.238 min Scan# 1589
 Delta R.T. -0.007 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

Tgt Ion:166 Resp: 30868

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.1	118.7
167	13.4	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.932 min Scan# 11

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

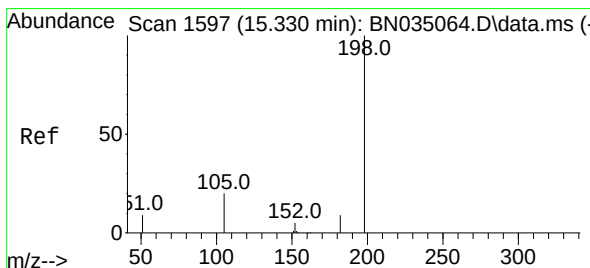
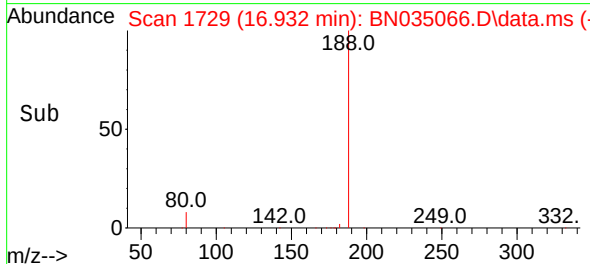
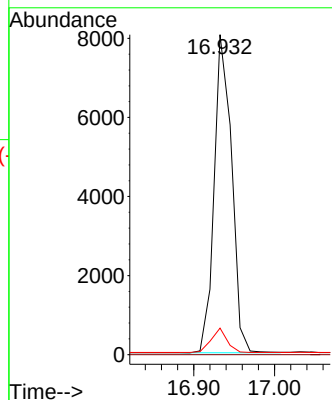
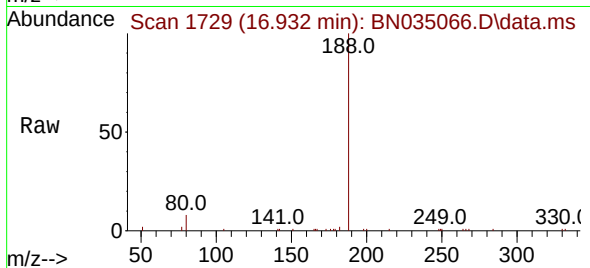
Tgt Ion:188 Resp: 12068

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.3 4.3 6.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 1.695 ng

RT: 15.323 min Scan# 1597

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

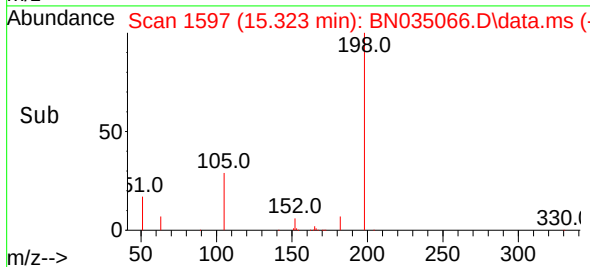
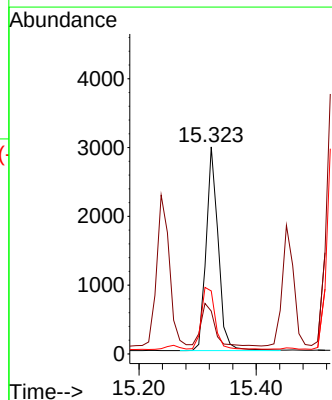
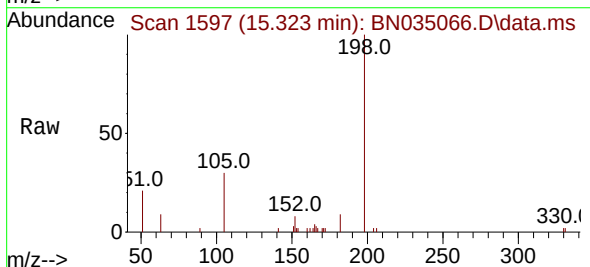
Tgt Ion:198 Resp: 4259

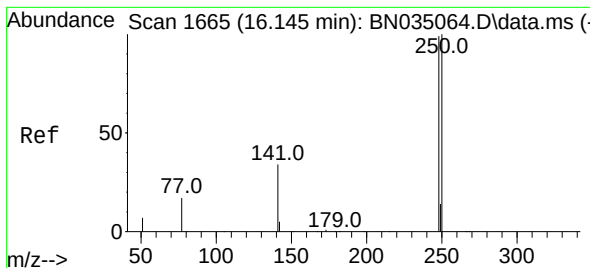
Ion Ratio Lower Upper

198 100

51 20.7 29.9 44.9#

105 30.5 23.7 35.5

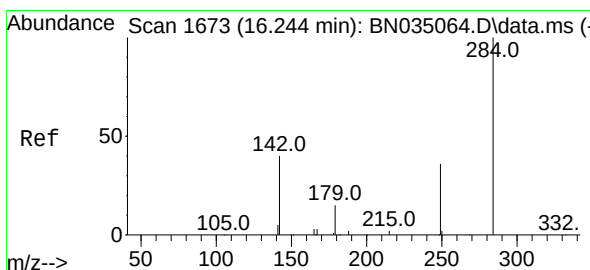
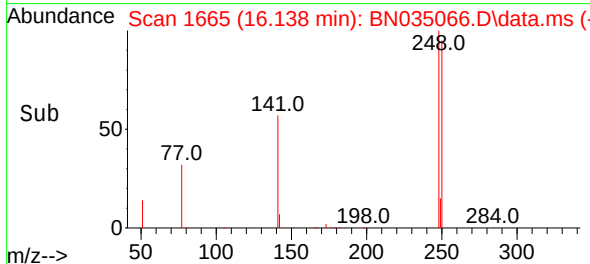
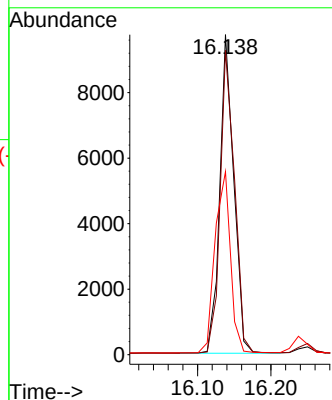
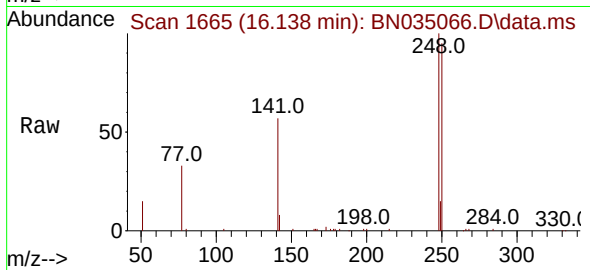




#21
4-Bromophenyl-phenylether
Concen: 1.676 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

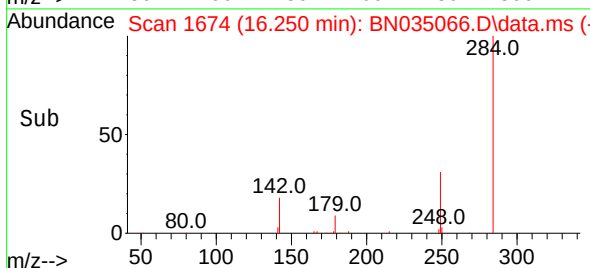
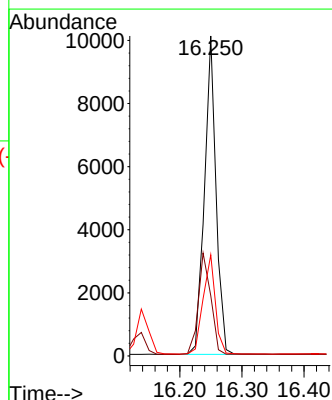
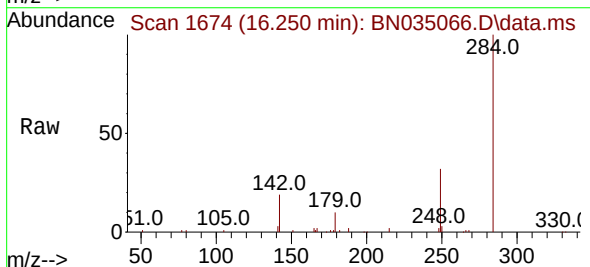
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

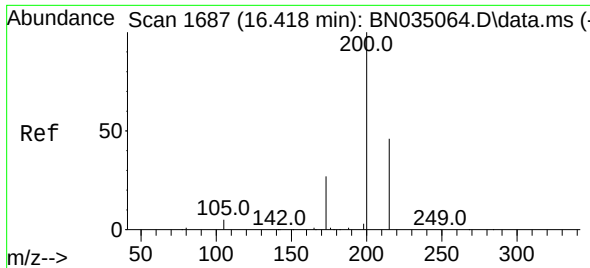
Tgt Ion:248 Resp: 12888
Ion Ratio Lower Upper
248 100
250 95.0 81.2 121.8
141 57.2 29.1 43.7#



#22
Hexachlorobenzene
Concen: 1.651 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:284 Resp: 13172
Ion Ratio Lower Upper
284 100
142 34.0 28.2 42.4
249 32.5 26.2 39.2

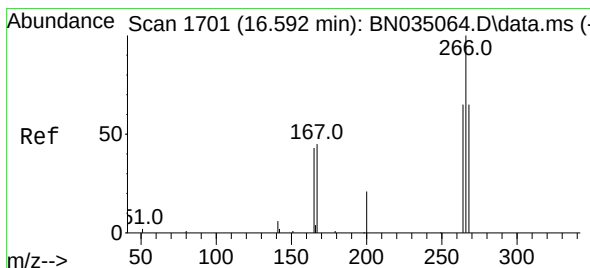
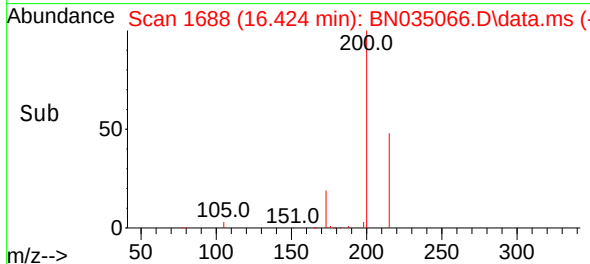
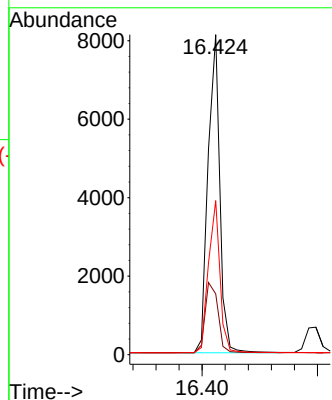
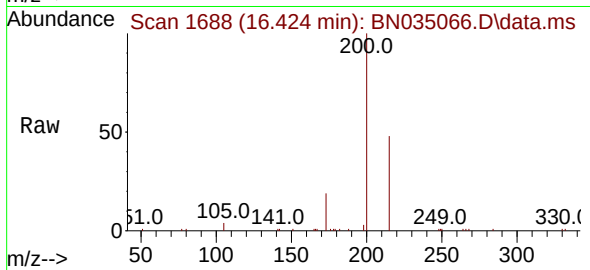




#23
Atrazine
Concen: 1.663 ng
RT: 16.424 min Scan# 11471
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

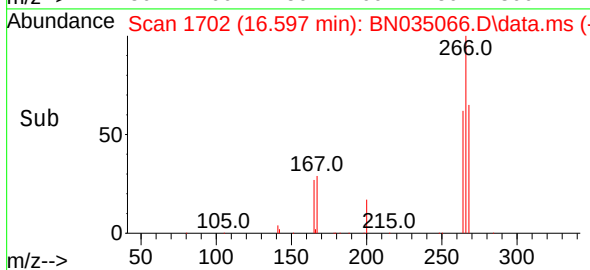
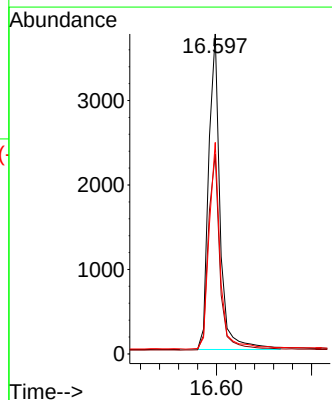
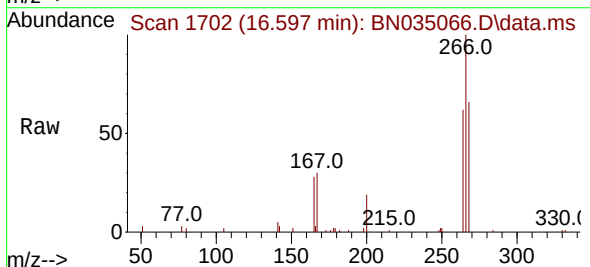
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

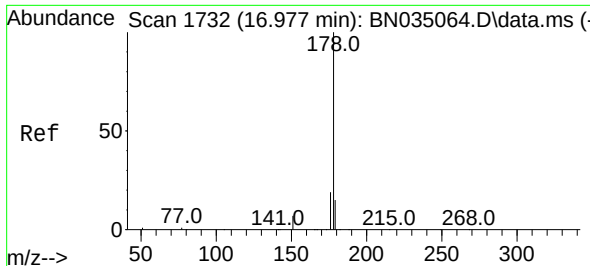
Tgt Ion:200 Resp: 11471
Ion Ratio Lower Upper
200 100
173 19.0 22.6 33.8#
215 48.2 37.8 56.6



#24
Pentachlorophenol
Concen: 1.683 ng
RT: 16.597 min Scan# 1702
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:266 Resp: 6275
Ion Ratio Lower Upper
266 100
264 63.2 49.4 74.0
268 63.7 52.6 79.0

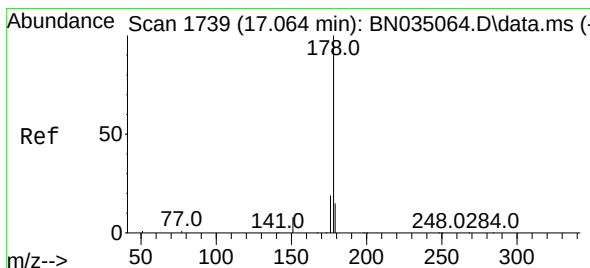
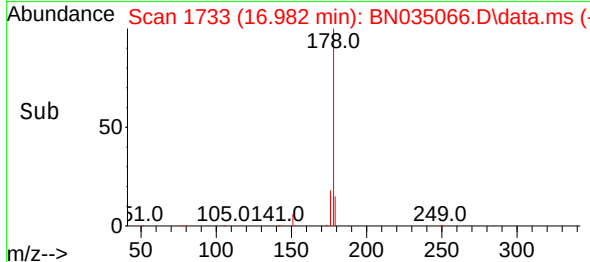
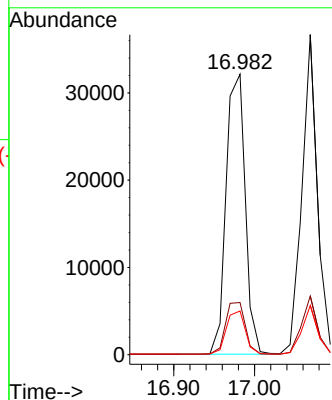
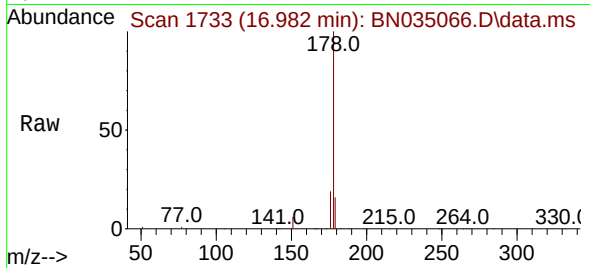




#25
Phenanthrene
Concen: 1.666 ng
RT: 16.982 min Scan# 1733
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

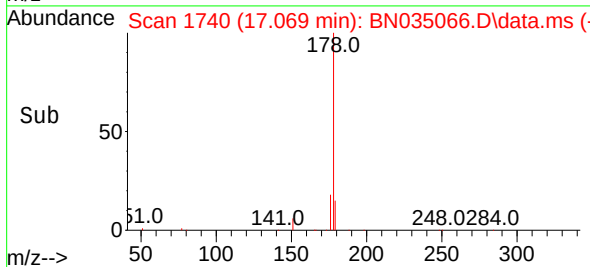
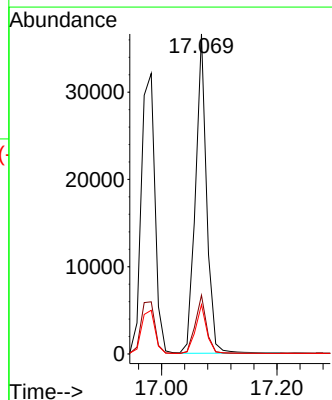
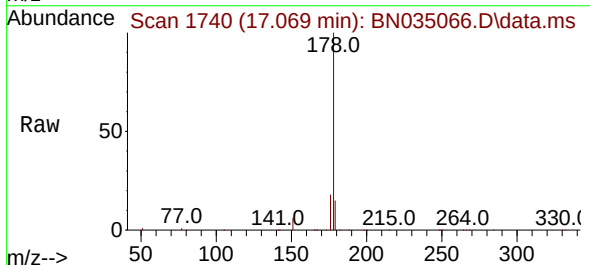
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

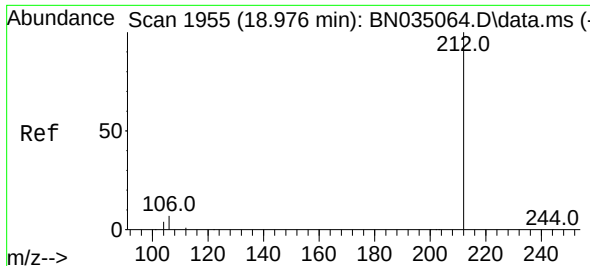
Tgt Ion:178 Resp: 52915
Ion Ratio Lower Upper
178 100
176 19.1 15.2 22.8
179 15.3 12.6 18.8



#26
Anthracene
Concen: 1.681 ng
RT: 17.069 min Scan# 1740
Delta R.T. 0.005 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:178 Resp: 49046
Ion Ratio Lower Upper
178 100
176 18.4 14.6 22.0
179 15.3 12.2 18.2

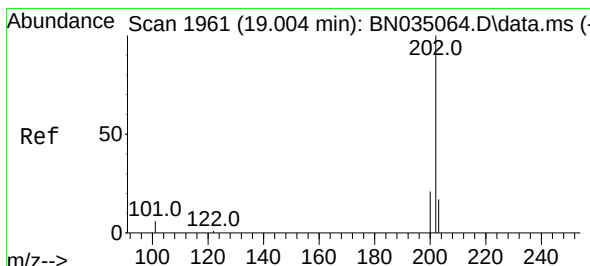
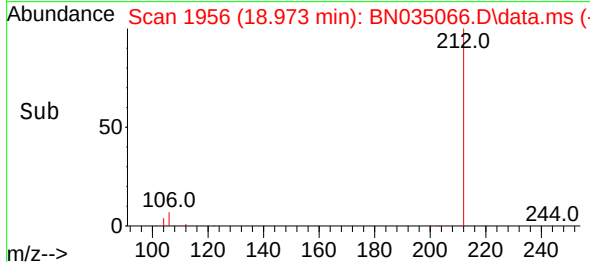
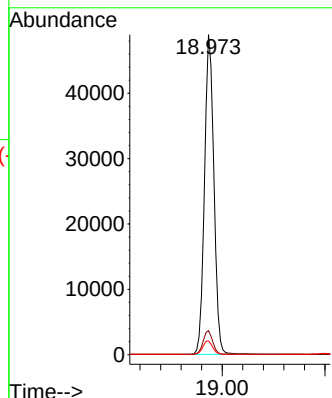
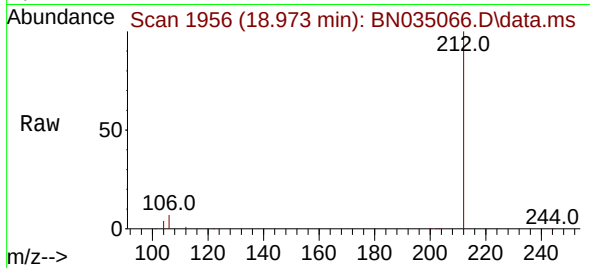




#27
Fluoranthene-d10
Concen: 1.676 ng
RT: 18.973 min Scan# 1955
Delta R.T. -0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

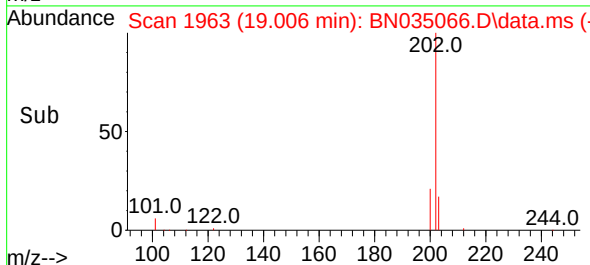
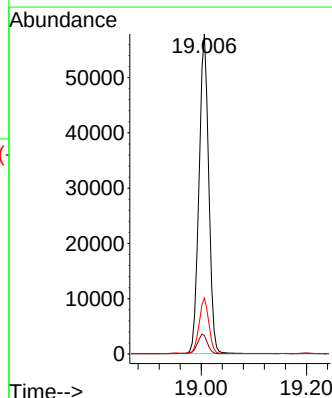
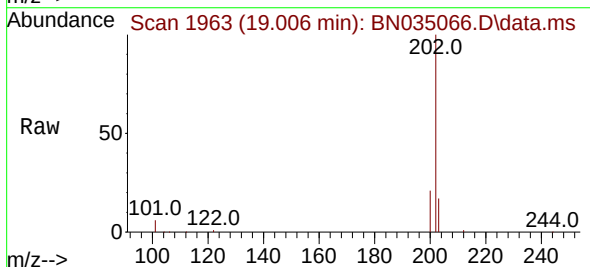
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

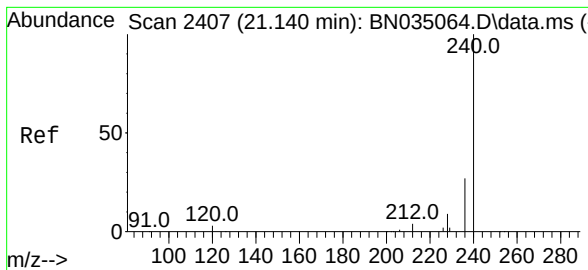
Tgt Ion:212 Resp: 61972
Ion Ratio Lower Upper
212 100
106 7.5 6.0 9.0
104 4.3 3.5 5.3



#28
Fluoranthene
Concen: 1.687 ng
RT: 19.006 min Scan# 1963
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:202 Resp: 73694
Ion Ratio Lower Upper
202 100
101 6.3 5.2 7.8
203 17.4 13.8 20.8

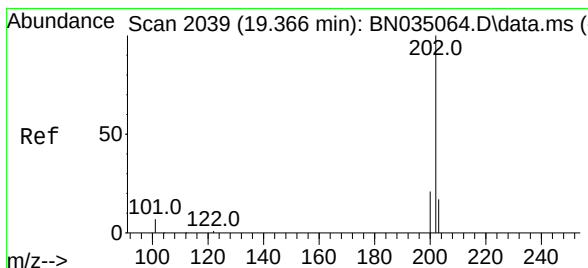
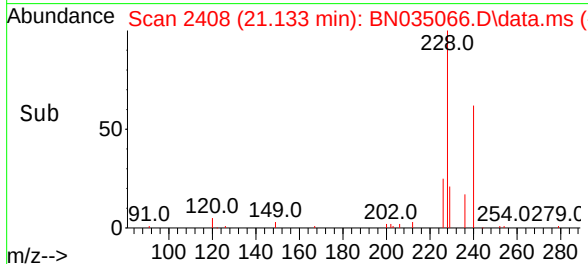
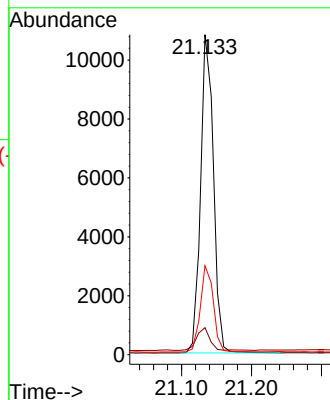
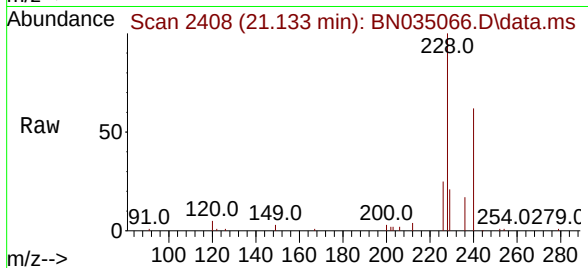




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

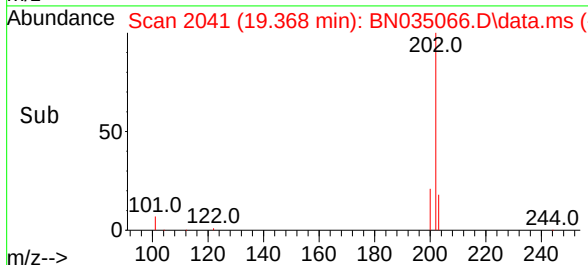
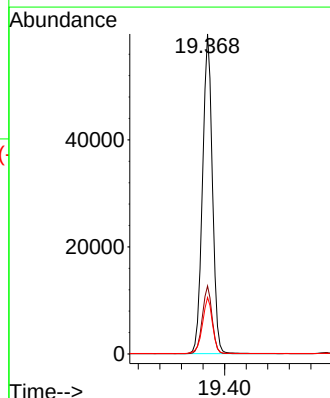
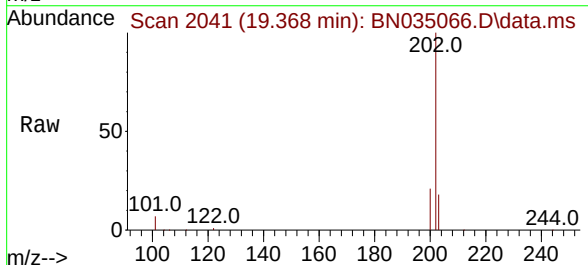
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

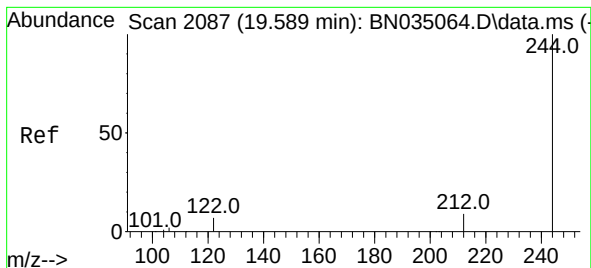
Tgt Ion:240 Resp: 13823
Ion Ratio Lower Upper
240 100
120 8.5 3.8 5.6#
236 27.8 22.2 33.2



#30
Pyrene
Concen: 1.641 ng
RT: 19.368 min Scan# 2041
Delta R.T. 0.002 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:202 Resp: 75558
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 17.9 14.2 21.4





#31

Terphenyl-d14

Concen: 1.652 ng

RT: 19.587 min Scan# 2087

Delta R.T. -0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

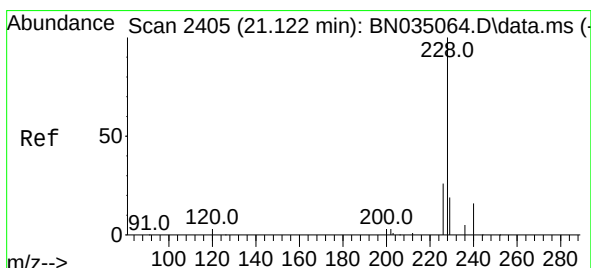
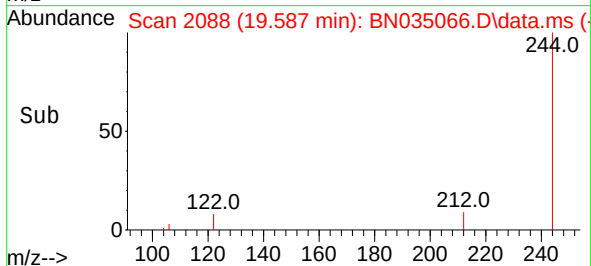
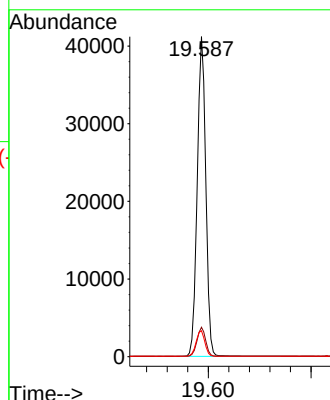
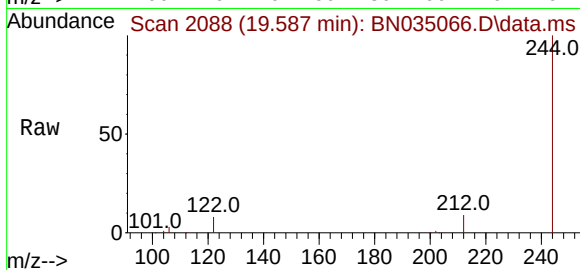
Tgt Ion:244 Resp: 47914

Ion Ratio Lower Upper

244 100

212 9.2 7.6 11.4

122 8.1 6.1 9.1



#32

Benzo(a)anthracene

Concen: 1.627 ng

RT: 21.125 min Scan# 2407

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

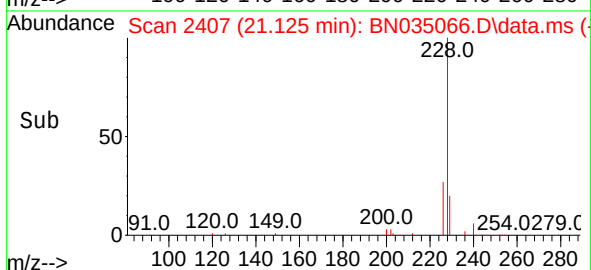
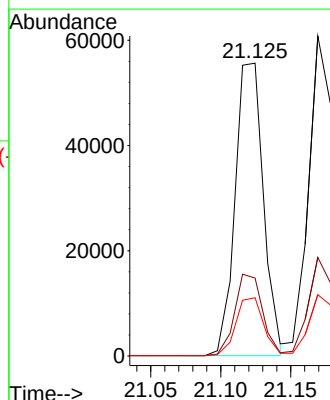
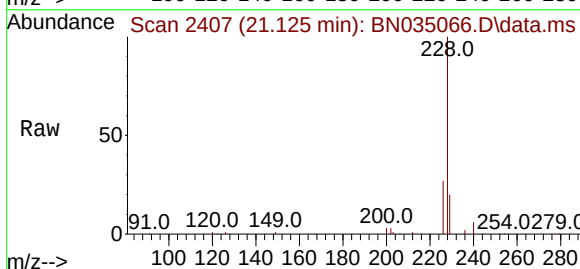
Tgt Ion:228 Resp: 78298

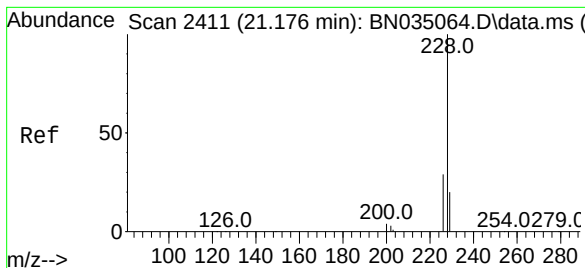
Ion Ratio Lower Upper

228 100

226 26.6 21.4 32.0

229 19.9 15.7 23.5





#33

Chrysene

Concen: 1.647 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

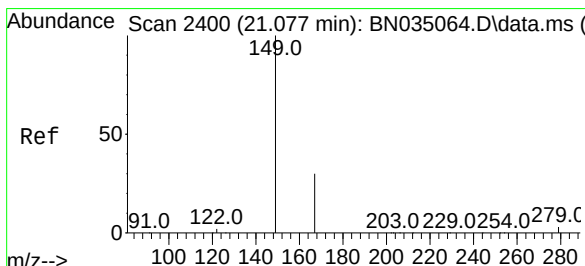
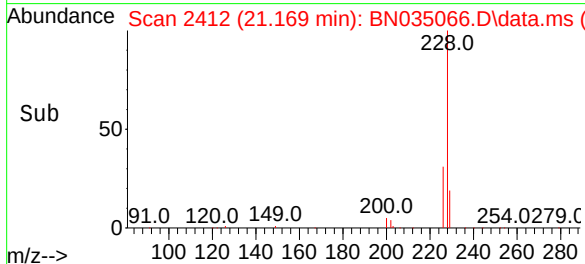
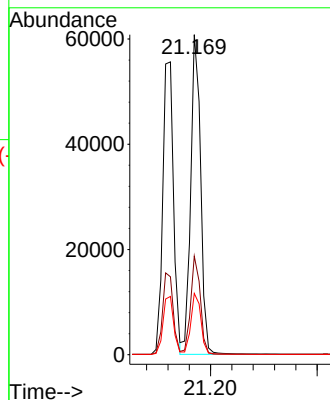
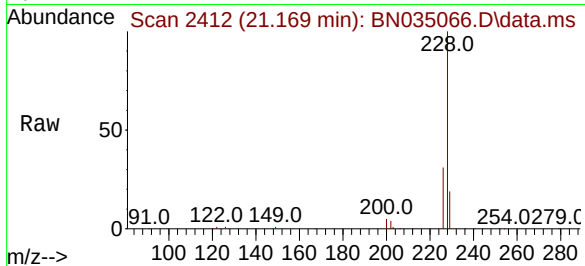
Tgt Ion:228 Resp: 78533

Ion Ratio Lower Upper

228 100

226 30.8 23.7 35.5

229 19.2 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.549 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

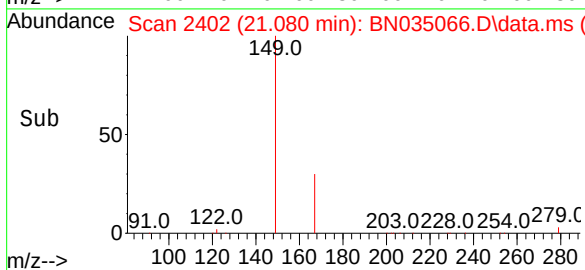
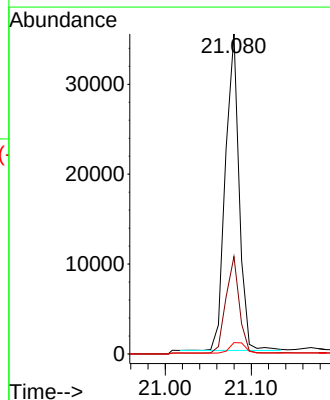
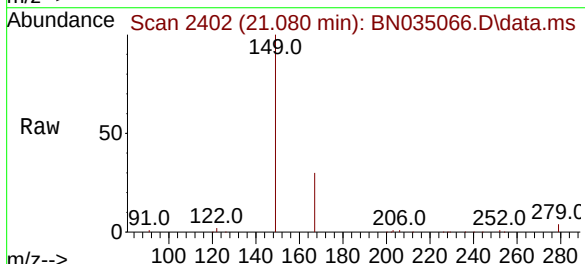
Tgt Ion:149 Resp: 38807

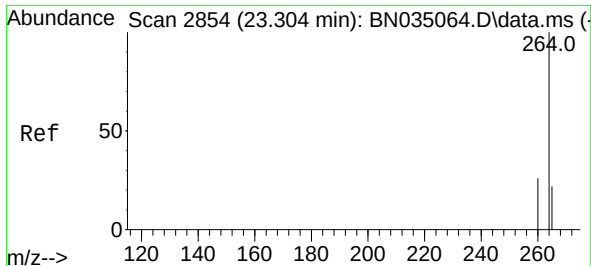
Ion Ratio Lower Upper

149 100

167 29.5 23.2 34.8

279 3.9 3.2 4.8

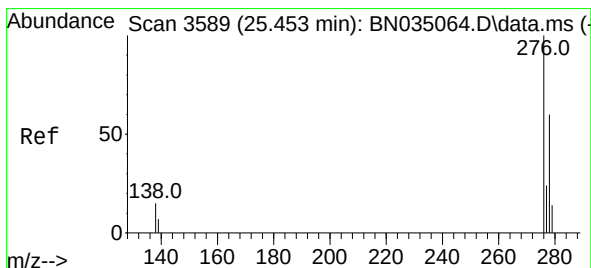
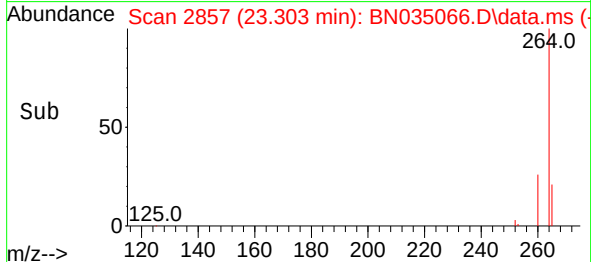
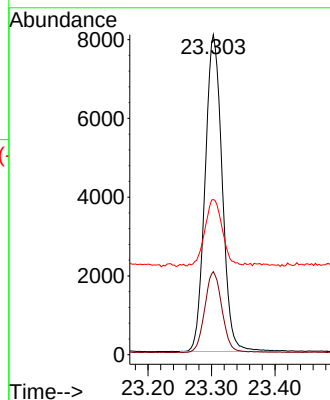
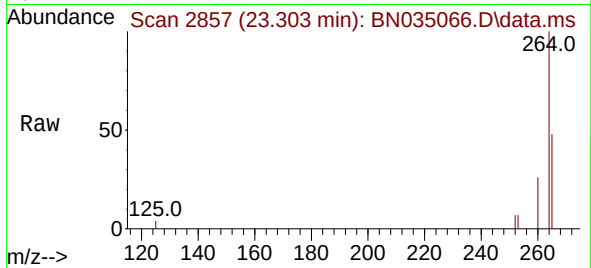




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.303 min Scan# 21
Delta R.T. -0.001 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

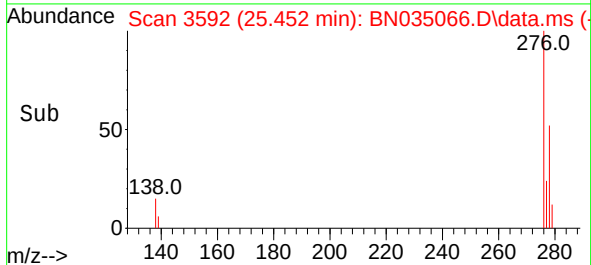
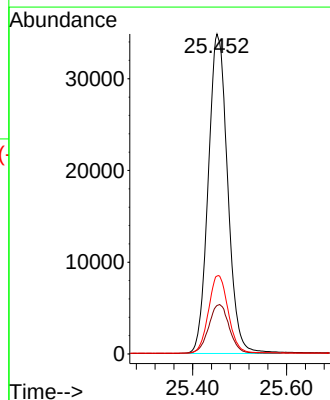
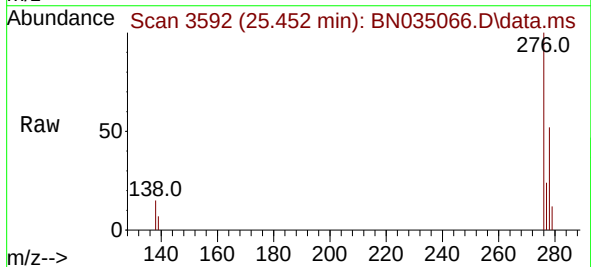
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

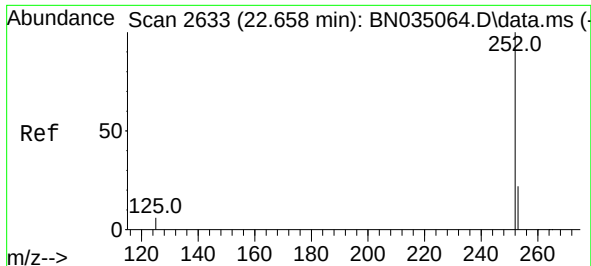
Tgt Ion:264 Resp: 15060
Ion Ratio Lower Upper
264 100
260 26.0 20.9 31.3
265 48.5 35.4 53.2



#36
Indeno(1,2,3-cd)pyrene
Concen: 1.663 ng
RT: 25.452 min Scan# 3592
Delta R.T. -0.001 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:276 Resp: 99936
Ion Ratio Lower Upper
276 100
138 16.1 13.0 19.4
277 24.8 19.8 29.6

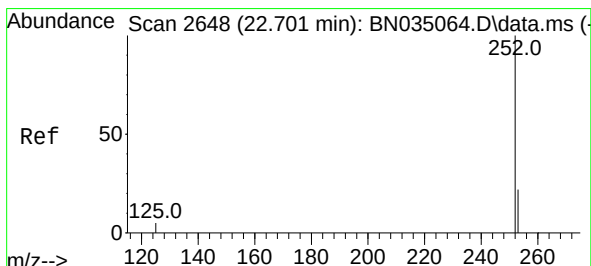
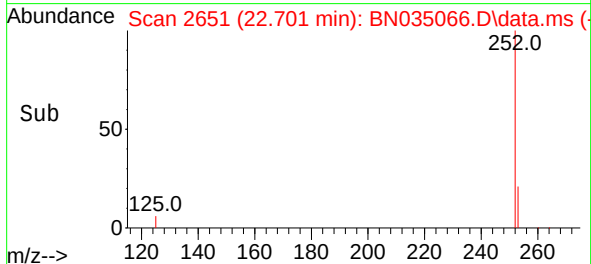
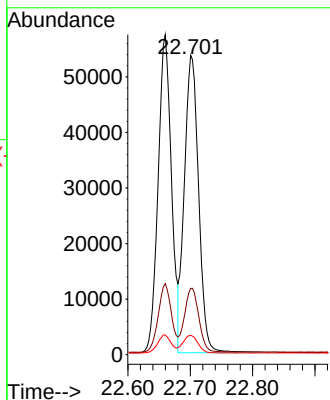
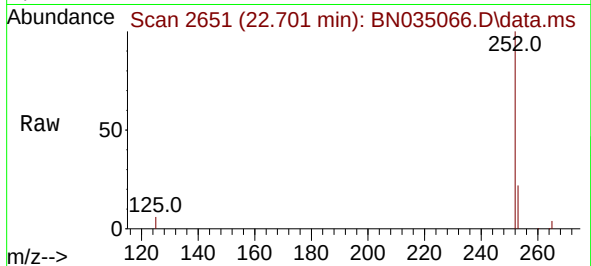




#37
Benzo(b)fluoranthene
Concen: 1.677 ng
RT: 22.701 min Scan# 2651
Delta R.T. 0.043 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

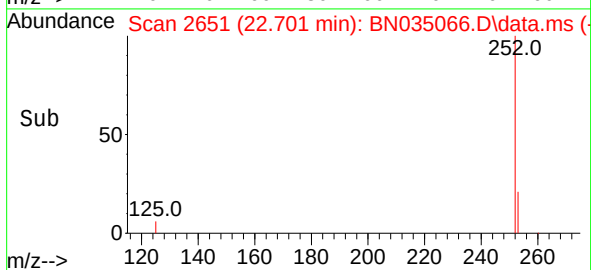
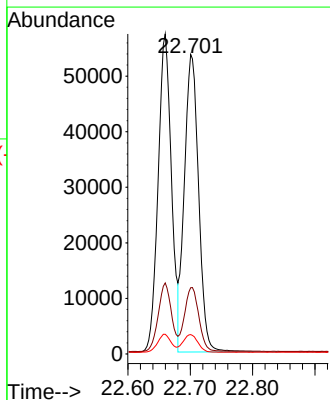
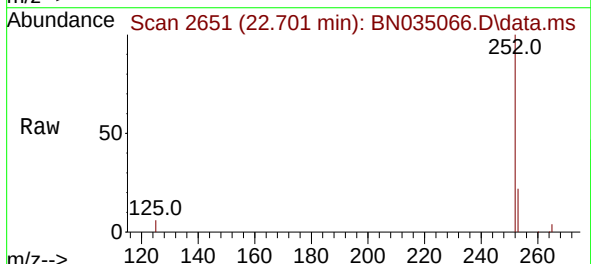
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

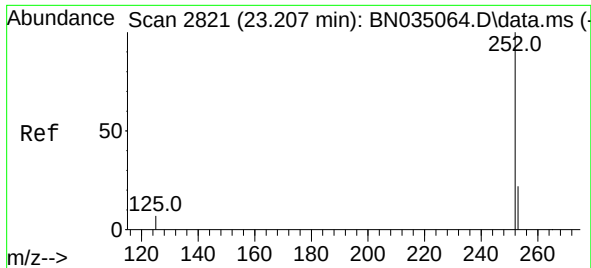
Tgt Ion:252 Resp: 84960
Ion Ratio Lower Upper
252 100
253 22.1 19.3 28.9
125 6.5 6.2 9.2



#38
Benzo(k)fluoranthene
Concen: 1.676 ng
RT: 22.701 min Scan# 2651
Delta R.T. -0.001 min
Lab File: BN035066.D
Acq: 13 Nov 2024 15:04

Tgt Ion:252 Resp: 84960
Ion Ratio Lower Upper
252 100
253 22.1 19.5 29.3
125 6.5 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 1.675 ng

RT: 23.209 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

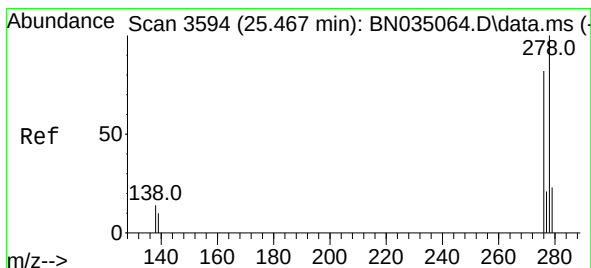
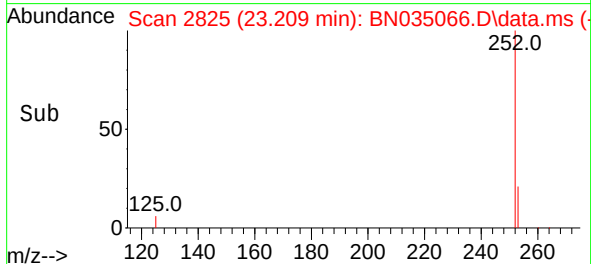
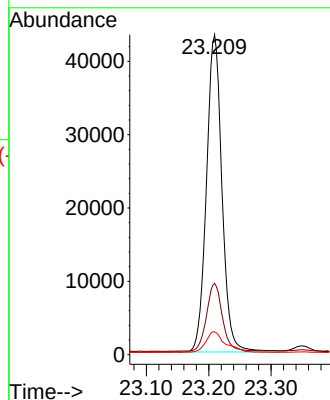
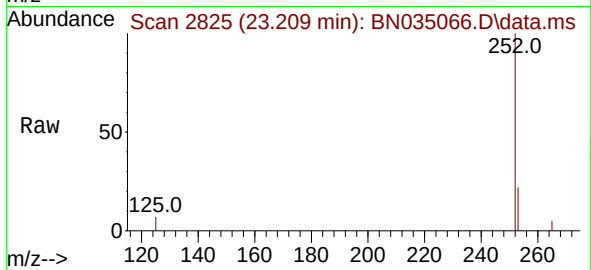
Tgt Ion:252 Resp: 74668

Ion Ratio Lower Upper

252 100

253 22.3 20.1 30.1

125 7.1 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 1.673 ng

RT: 25.469 min Scan# 3598

Delta R.T. 0.002 min

Lab File: BN035066.D

Acq: 13 Nov 2024 15:04

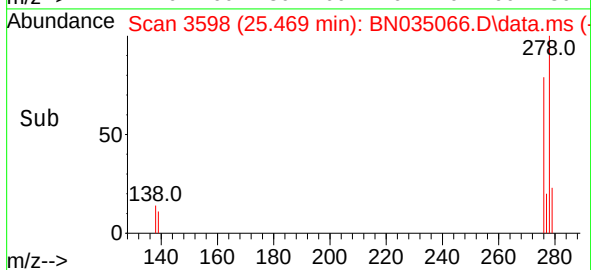
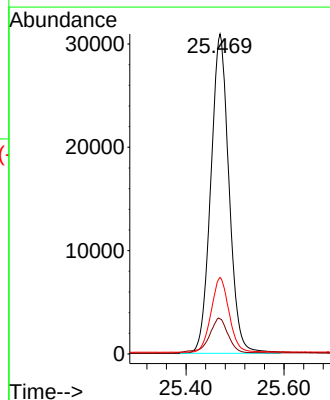
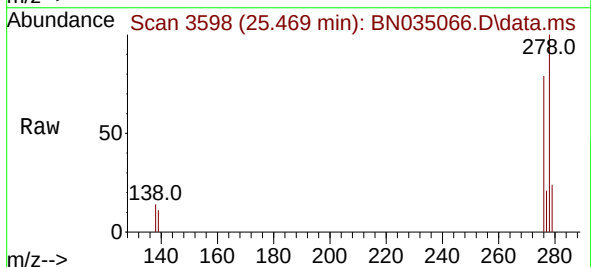
Tgt Ion:278 Resp: 79628

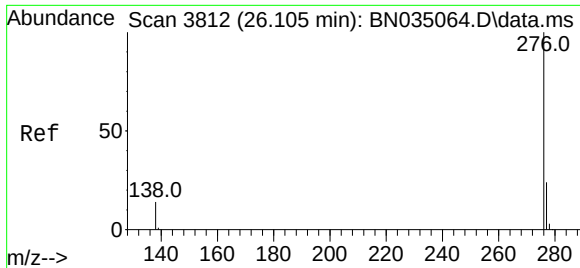
Ion Ratio Lower Upper

278 100

139 10.9 9.3 13.9

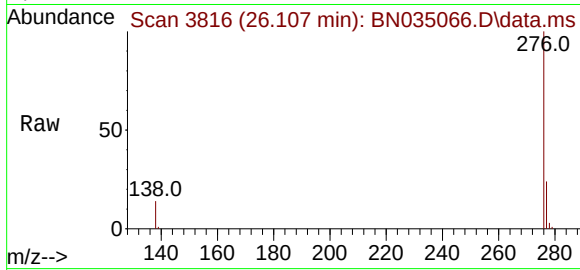
279 23.9 19.7 29.5



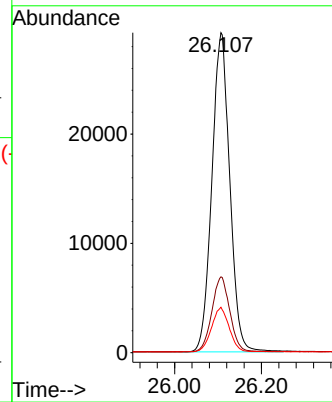
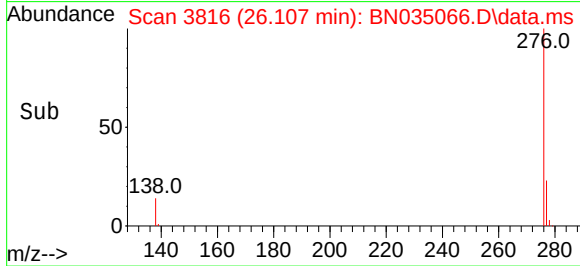


#41
 Benzo(g,h,i)perylene
 Concen: 1.649 ng
 RT: 26.107 min Scan# 3816
 Delta R.T. 0.002 min
 Lab File: BN035066.D
 Acq: 13 Nov 2024 15:04

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6



Tgt Ion:	276	Resp:	83498
Ion Ratio	Lower	Upper	
276	100		
277	23.7	19.9	29.9
138	14.2	11.6	17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035067.D
 Acq On : 13 Nov 2024 15:39
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Nov 13 16:45:11 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 16:42:01 2024
 Response via : Initial Calibration

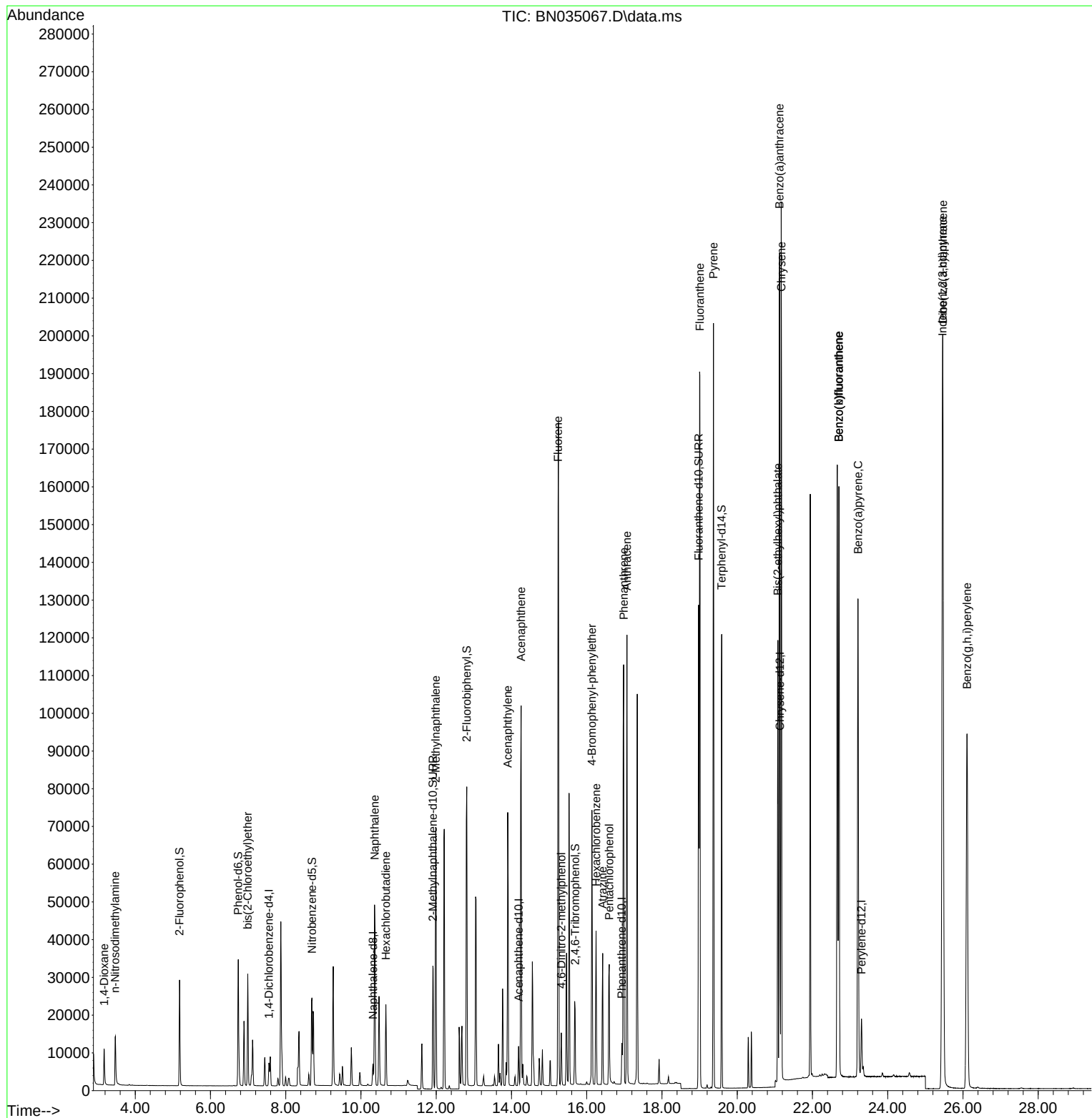
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2920	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	7487	0.400	ng	0.00
13) Acenaphthene-d10	14.190	164	5593	0.400	ng	0.00
19) Phenanthrene-d10	16.932	188	14864	0.400	ng	# 0.00
29) Chrysene-d12	21.133	240	17096	0.400	ng	# 0.00
35) Perylene-d12	23.303	264	18582	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	22571	3.045	ng	0.00
5) Phenol-d6	6.737	99	29328	3.155	ng	0.00
8) Nitrobenzene-d5	8.696	82	20578	3.167	ng	0.00
11) 2-Methylnaphthalene-d10	11.912	152	42128	3.157	ng	0.00
14) 2,4,6-Tribromophenol	15.691	330	13778	3.417	ng	0.00
15) 2-Fluorobiphenyl	12.811	172	71543	3.150	ng	0.00
27) Fluoranthene-d10	18.973	212	145321	3.191	ng	0.00
31) Terphenyl-d14	19.587	244	111732	3.115	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	8131	3.066	ng	99
3) n-Nitrosodimethylamine	3.465	42	7509	3.049	ng	# 93
6) bis(2-Chloroethyl)ether	6.990	93	21619	3.099	ng	99
9) Naphthalene	10.362	128	60468	3.093	ng	98
10) Hexachlorobutadiene	10.660	225	17300	3.019	ng	# 99
12) 2-Methylnaphthalene	11.988	142	45806	3.176	ng	98
16) Acenaphthylene	13.901	152	78553	3.286	ng	99
17) Acenaphthene	14.254	154	50542	3.227	ng	98
18) Fluorene	15.238	166	74092	3.215	ng	99
20) 4,6-Dinitro-2-methylph...	15.323	198	11328	3.661	ng	# 83
21) 4-Bromophenyl-phenylether	16.138	248	30013	3.169	ng	# 85
22) Hexachlorobenzene	16.250	284	30635	3.117	ng	99
23) Atrazine	16.424	200	26567	3.127	ng	# 93
24) Pentachlorophenol	16.597	266	16789	3.656	ng	98
25) Phenanthrene	16.982	178	123000	3.144	ng	99
26) Anthracene	17.069	178	117301	3.265	ng	100
28) Fluoranthene	19.006	202	172759	3.212	ng	100
30) Pyrene	19.368	202	177937	3.125	ng	100
32) Benzo(a)anthracene	21.125	228	185345	3.114	ng	99
33) Chrysene	21.169	228	182053	3.087	ng	98
34) Bis(2-ethylhexyl)phtha...	21.080	149	94826	3.061	ng	99
36) Indeno(1,2,3-cd)pyrene	25.455	276	230419	3.108	ng	100
37) Benzo(b)fluoranthene	22.701	252	196686	3.146	ng	95
38) Benzo(k)fluoranthene	22.701	252	196686	3.144	ng	# 95
39) Benzo(a)pyrene	23.209	252	173547	3.155	ng	# 93
40) Dibenzo(a,h)anthracene	25.466	278	183641	3.127	ng	98
41) Benzo(g,h,i)perylene	26.107	276	192341	3.079	ng	98

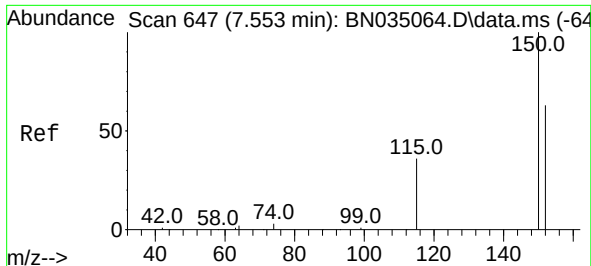
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035067.D
Acq On : 13 Nov 2024 15:39
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

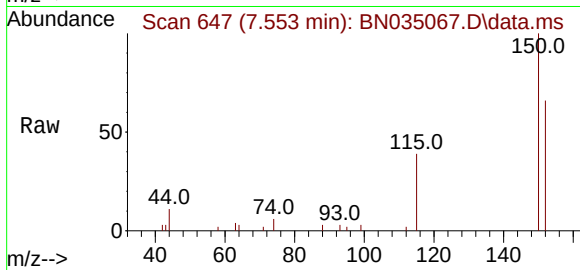
Quant Time: Nov 13 16:45:11 2024
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 16:42:01 2024
Response via : Initial Calibration



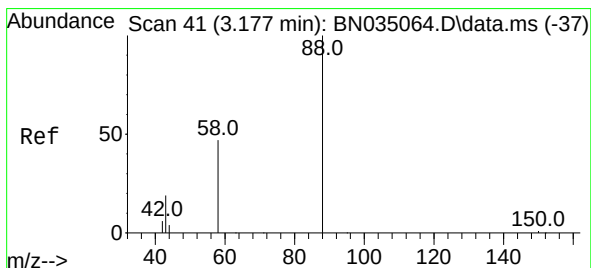
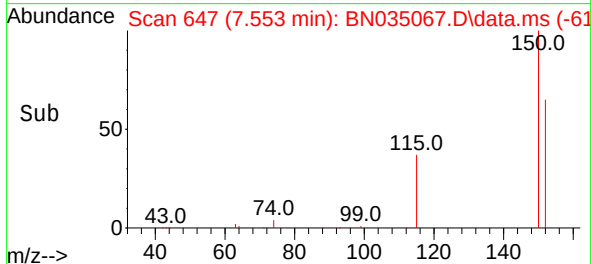
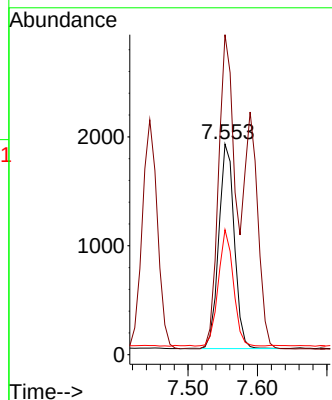


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

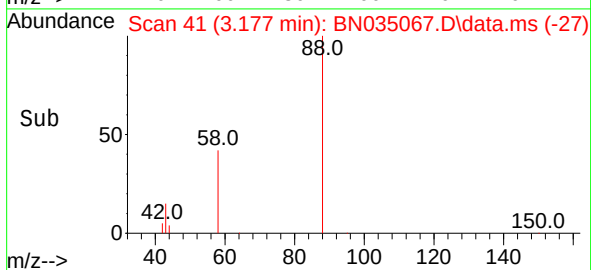
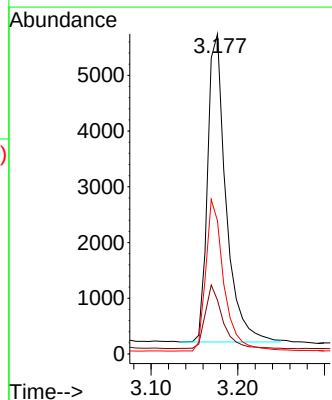
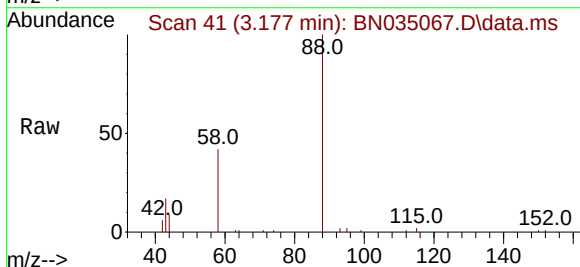


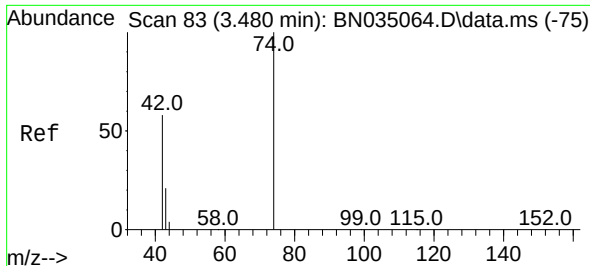
Tgt Ion:152 Resp: 2920
Ion Ratio Lower Upper
152 100
150 152.0 124.5 186.7
115 59.4 47.8 71.6



#2
1,4-Dioxane
Concen: 3.066 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 88 Resp: 8131
Ion Ratio Lower Upper
88 100
43 19.5 16.9 25.3
58 48.4 39.0 58.4

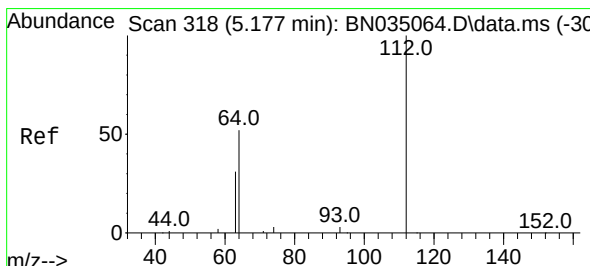
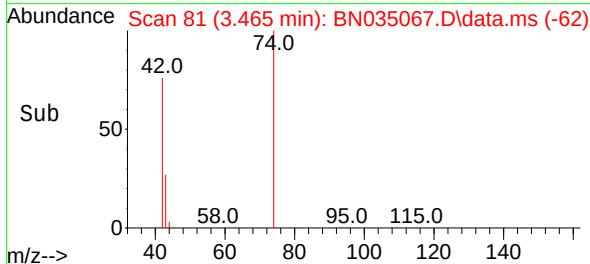
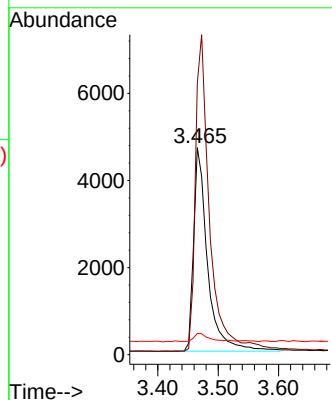
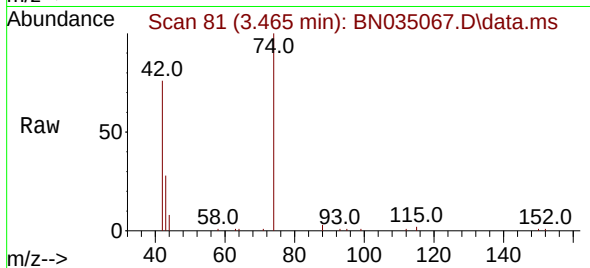




#3
n-Nitrosodimethylamine
Concen: 3.049 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.015 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

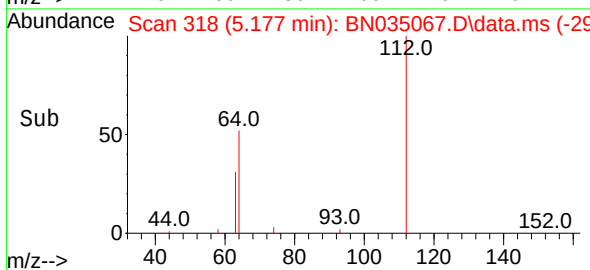
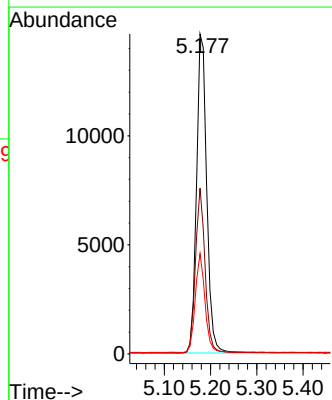
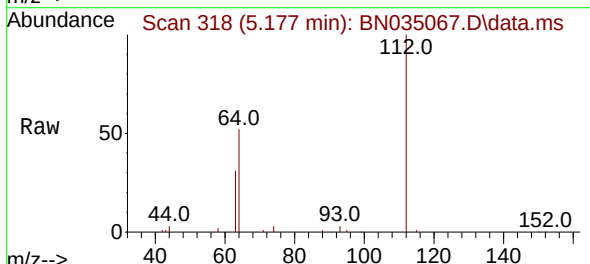
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

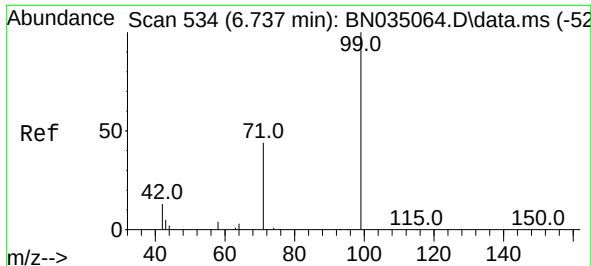
Tgt Ion: 42 Resp: 7509
Ion Ratio Lower Upper
42 100
74 159.4 120.8 181.2
44 4.7 2.9 4.3#



#4
2-Fluorophenol
Concen: 3.045 ng
RT: 5.177 min Scan# 318
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 112 Resp: 22571
Ion Ratio Lower Upper
112 100
64 48.8 39.7 59.5
63 29.4 23.0 34.4

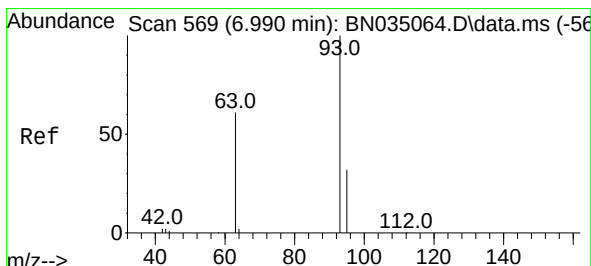
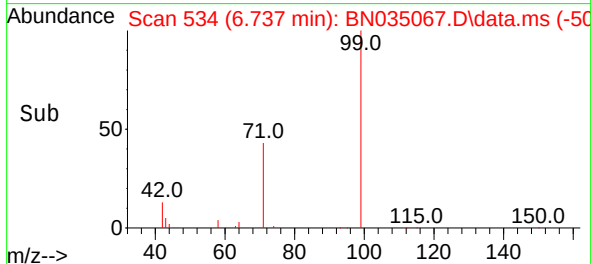
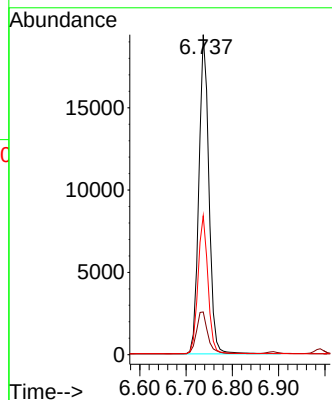
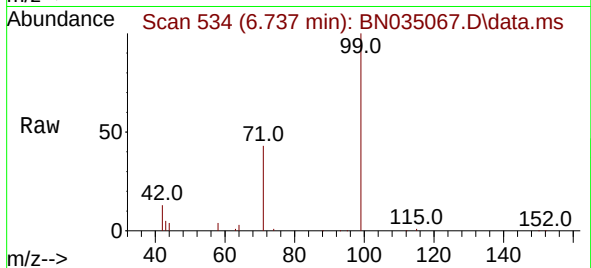




#5
Phenol-d6
Concen: 3.155 ng
RT: 6.737 min Scan# 534
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

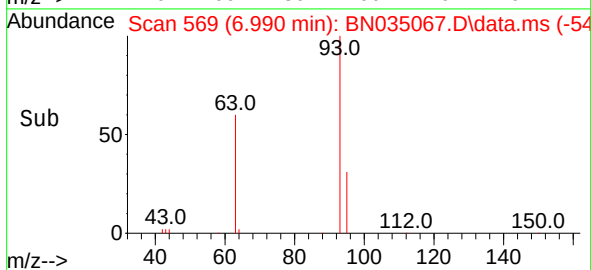
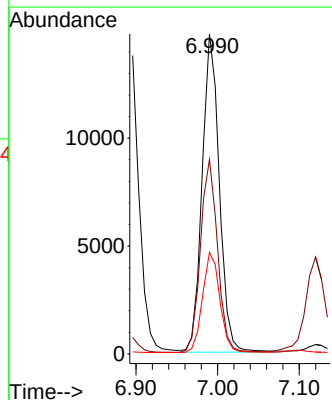
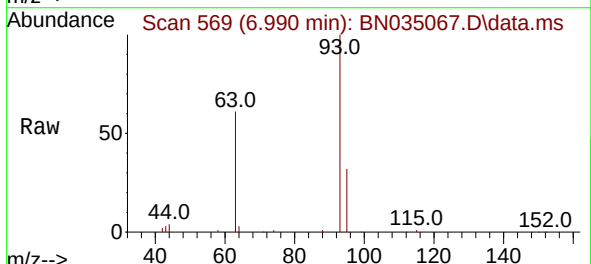
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

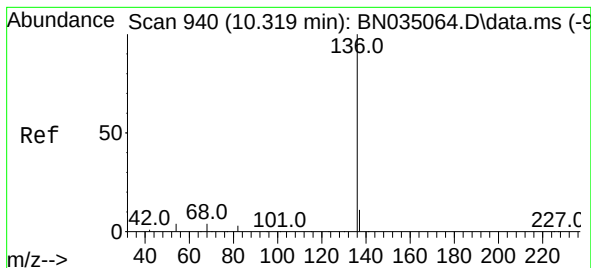
Tgt Ion: 99 Resp: 29328
Ion Ratio Lower Upper
99 100
42 14.5 11.4 17.0
71 43.0 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 3.099 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion: 93 Resp: 21619
Ion Ratio Lower Upper
93 100
63 60.2 47.4 71.2
95 31.9 26.2 39.4





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.319 min Scan# 940

Delta R.T. -0.000 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:136 Resp: 7487

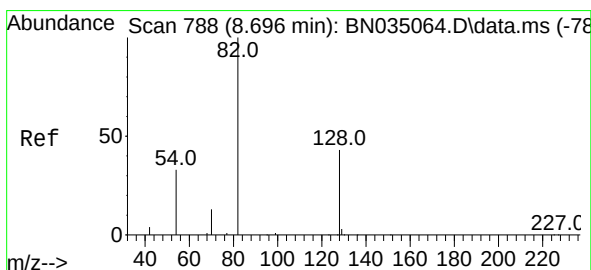
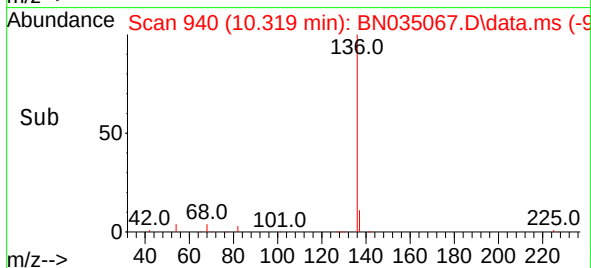
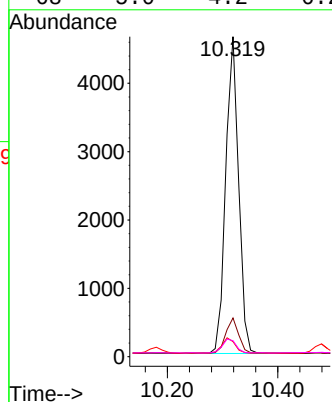
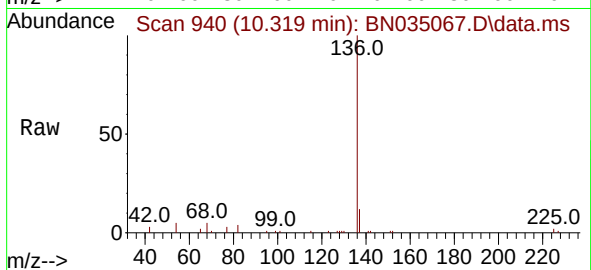
Ion Ratio Lower Upper

136 100

137 12.1 9.8 14.8

54 4.7 4.0 6.0

68 5.0 4.2 6.2



#8

Nitrobenzene-d5

Concen: 3.167 ng

RT: 8.696 min Scan# 788

Delta R.T. -0.000 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

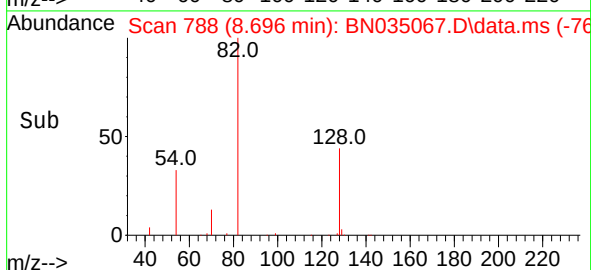
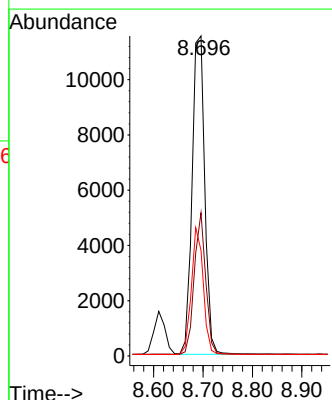
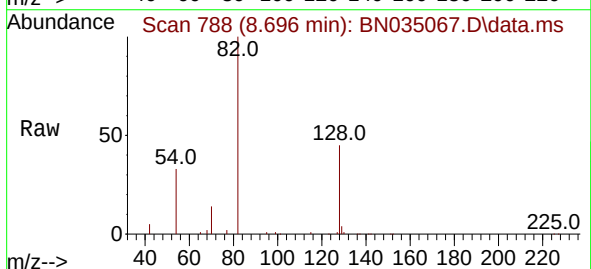
Tgt Ion: 82 Resp: 20578

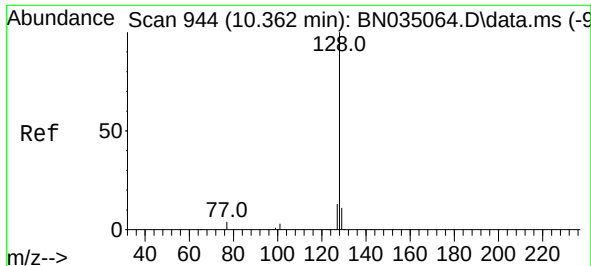
Ion Ratio Lower Upper

82 100

128 44.7 36.5 54.7

54 33.0 28.7 43.1

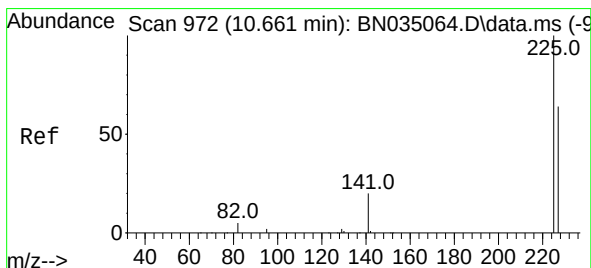
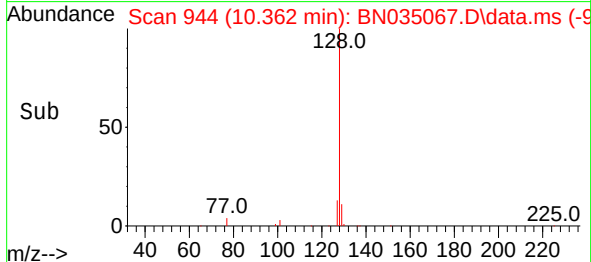
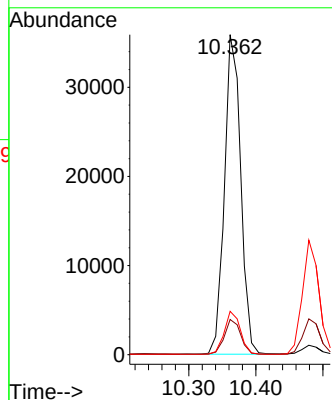
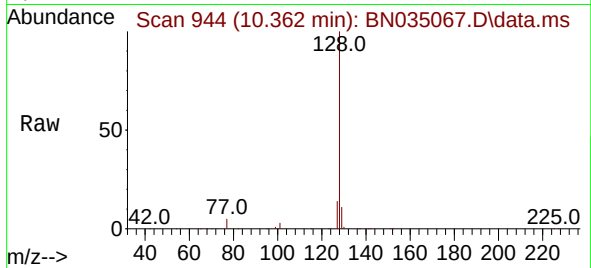




#9
Naphthalene
Concen: 3.093 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

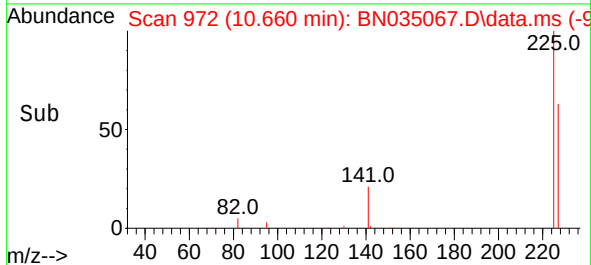
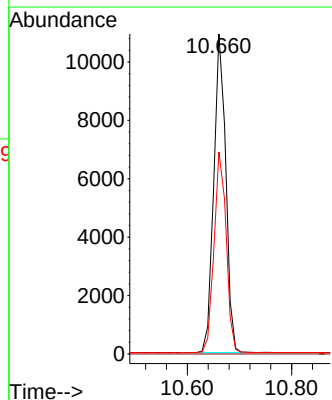
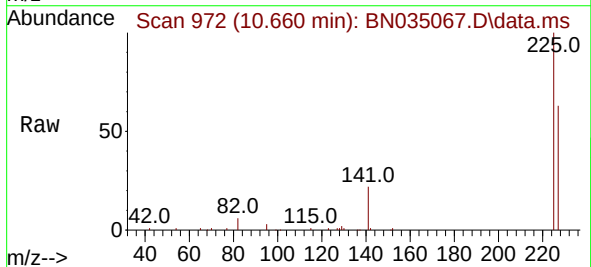
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

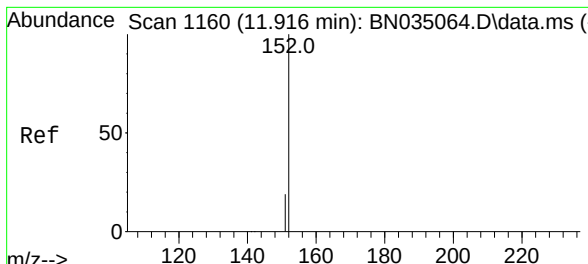
Tgt Ion:128 Resp: 60468
Ion Ratio Lower Upper
128 100
129 11.0 9.6 14.4
127 13.6 11.6 17.4



#10
Hexachlorobutadiene
Concen: 3.019 ng
RT: 10.660 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:225 Resp: 17300
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.5 77.3



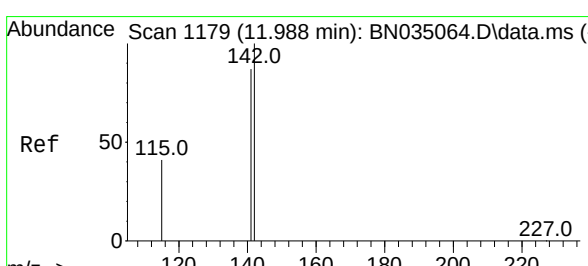
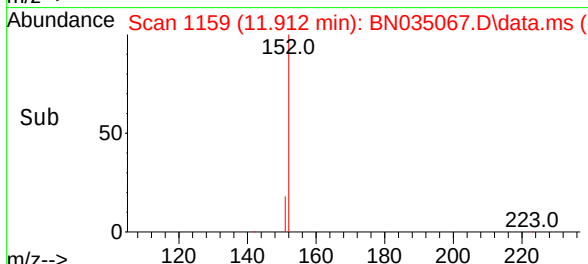
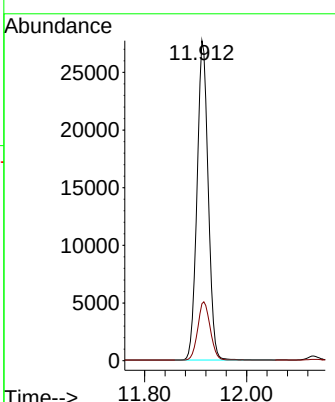
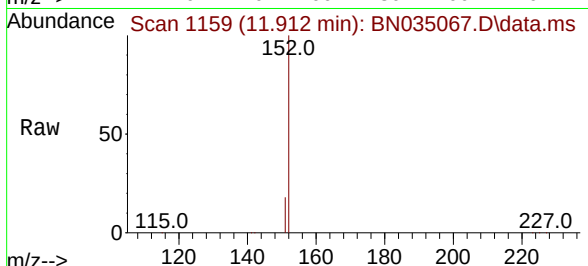


#11
 2-Methylnaphthalene-d10
 Concen: 3.157 ng
 RT: 11.912 min Scan# 1159
 Delta R.T. -0.004 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Tgt Ion:152 Resp: 42128

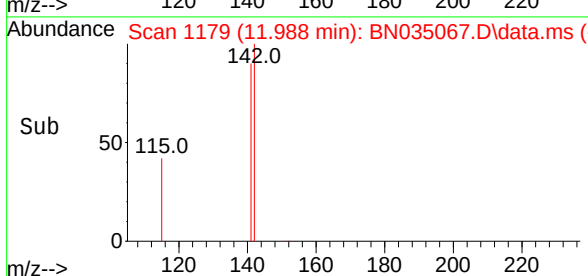
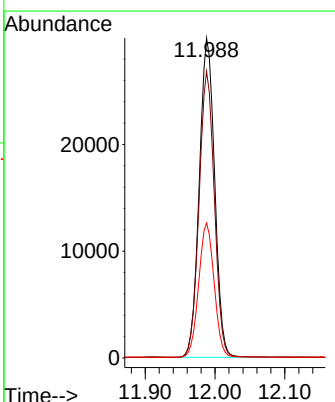
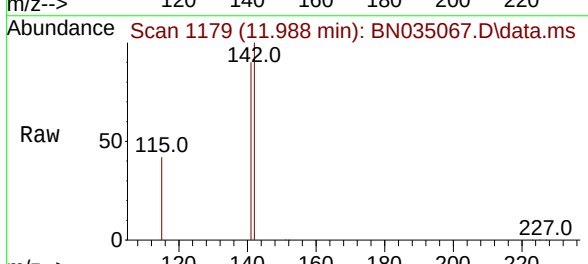
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.4

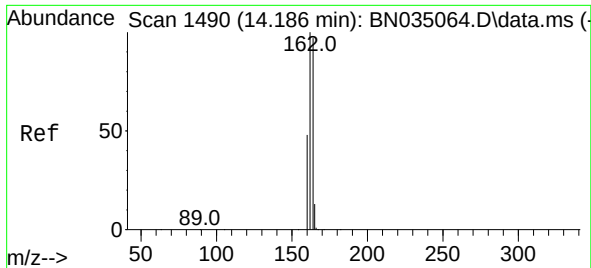


#12
 2-Methylnaphthalene
 Concen: 3.176 ng
 RT: 11.988 min Scan# 1179
 Delta R.T. -0.000 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Tgt Ion:142 Resp: 45806

Ion	Ratio	Lower	Upper
142	100		
141	89.6	70.1	105.1
115	42.2	34.4	51.6

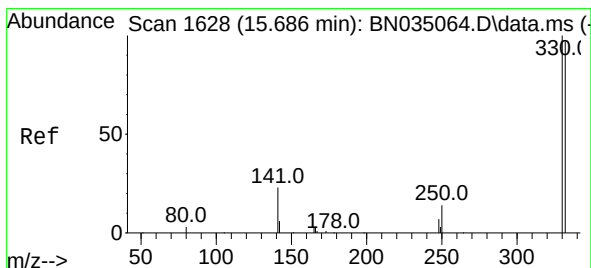
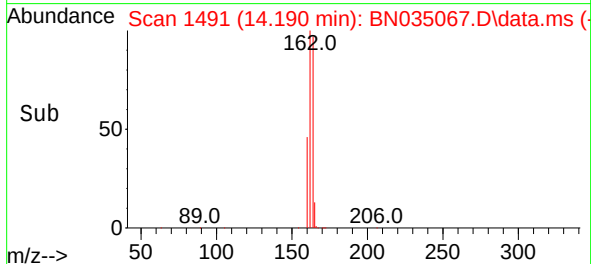
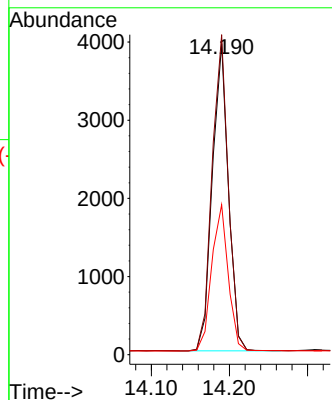
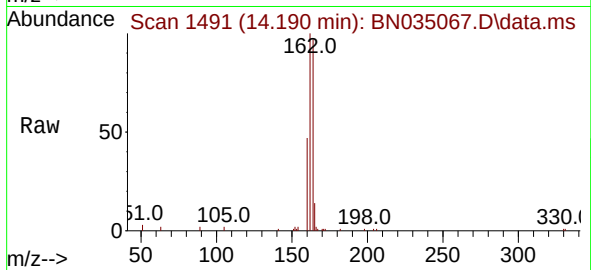




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.190 min Scan# 1491
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

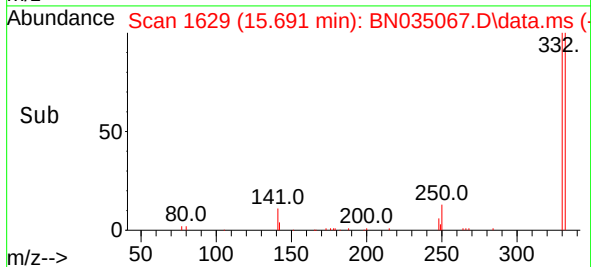
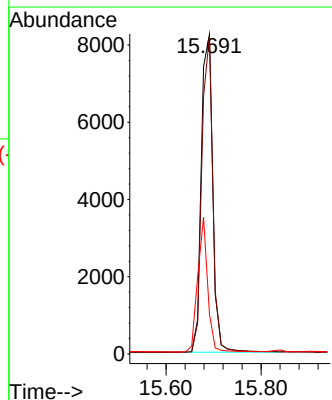
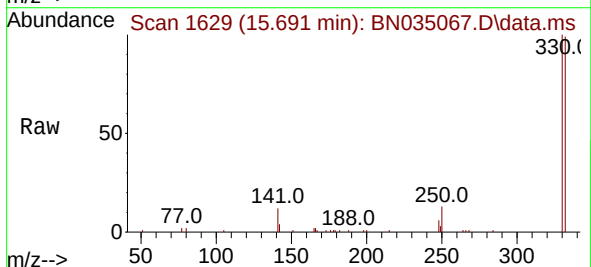
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

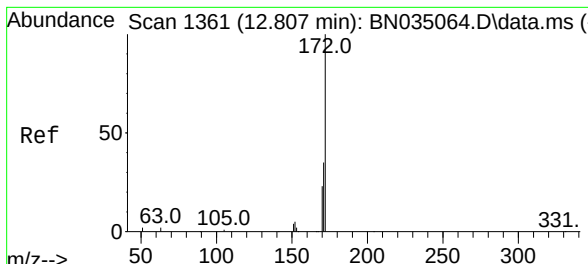
Tgt Ion:164 Resp: 5593
Ion Ratio Lower Upper
164 100
162 102.9 82.2 123.2
160 48.2 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 3.417 ng
RT: 15.691 min Scan# 1629
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:330 Resp: 13778
Ion Ratio Lower Upper
330 100
332 95.5 76.9 115.3
141 36.6 29.6 44.4

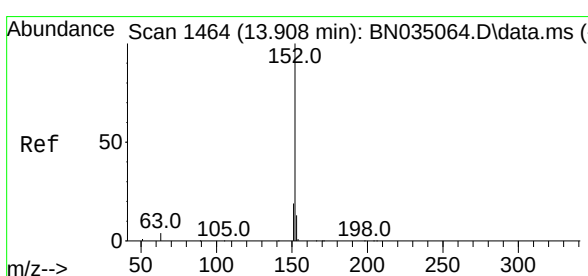
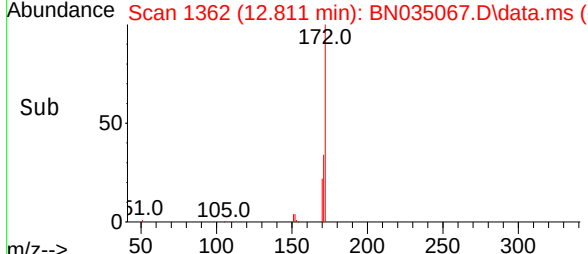
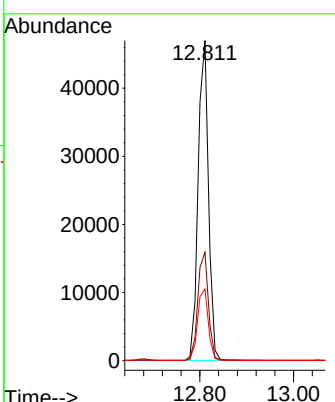
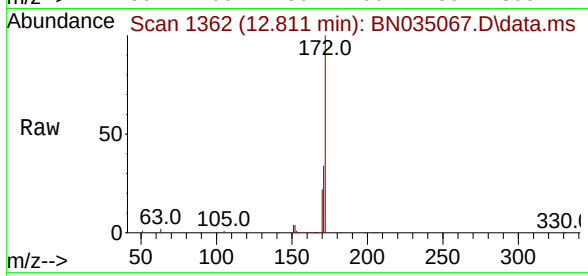




#15
 2-Fluorobiphenyl
 Concen: 3.150 ng
 RT: 12.811 min Scan# 1362
 Delta R.T. 0.004 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

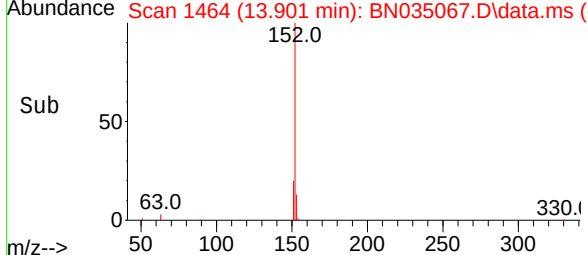
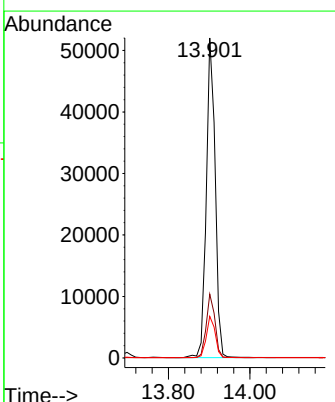
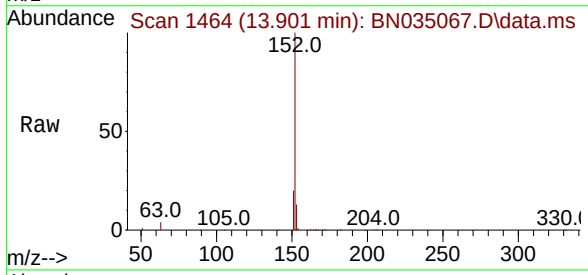
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

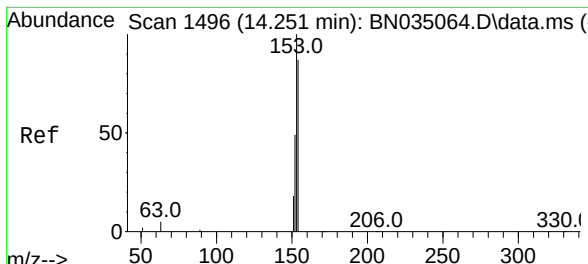
Tgt Ion:	172	Resp:	71543
Ion Ratio	Lower	Upper	
172	100		
171	33.9	28.2	42.4
170	22.5	19.0	28.6



#16
 Acenaphthylene
 Concen: 3.286 ng
 RT: 13.901 min Scan# 1464
 Delta R.T. -0.007 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Tgt Ion:	152	Resp:	78553
Ion Ratio	Lower	Upper	
152	100		
151	19.5	15.8	23.8
153	13.0	10.2	15.4

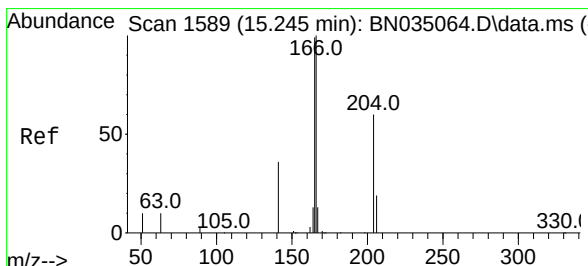
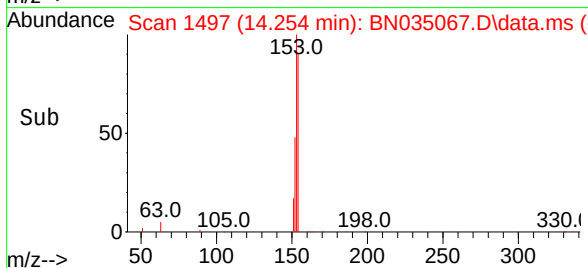
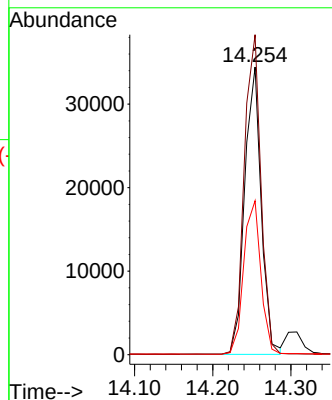
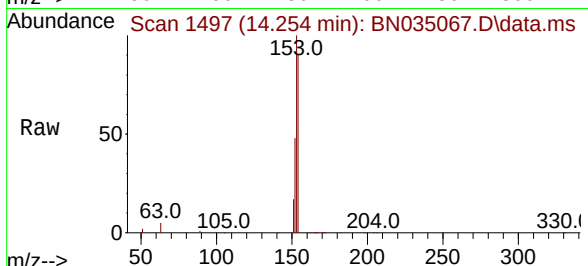




#17
Acenaphthene
Concen: 3.227 ng
RT: 14.254 min Scan# 1497
Delta R.T. 0.004 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

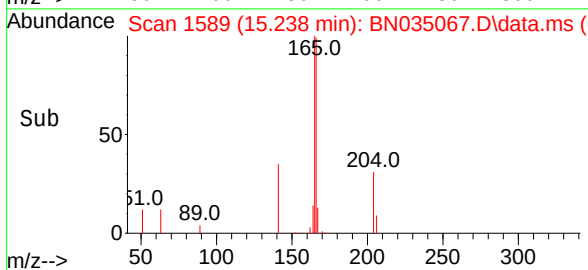
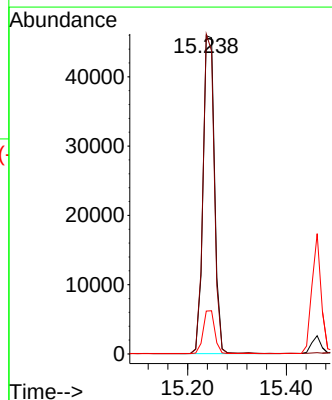
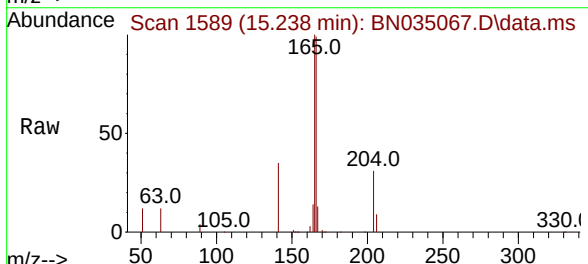
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

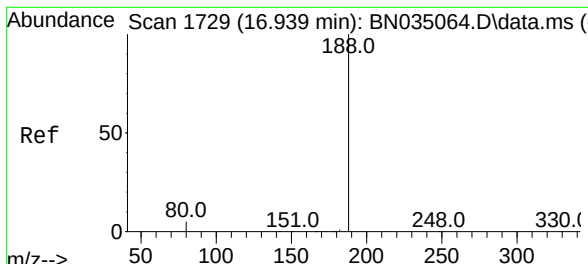
Tgt Ion:154 Resp: 50542
Ion Ratio Lower Upper
154 100
153 112.9 91.6 137.4
152 55.6 45.8 68.6



#18
Fluorene
Concen: 3.215 ng
RT: 15.238 min Scan# 1589
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:166 Resp: 74092
Ion Ratio Lower Upper
166 100
165 97.9 79.1 118.7
167 13.5 10.6 16.0

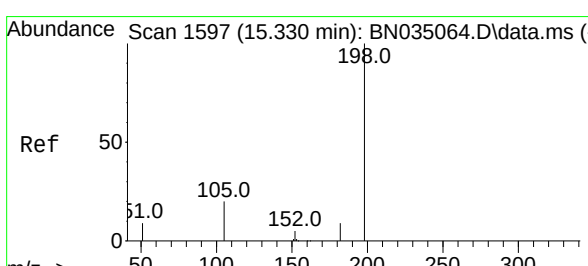
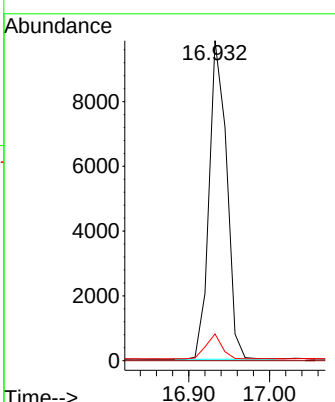
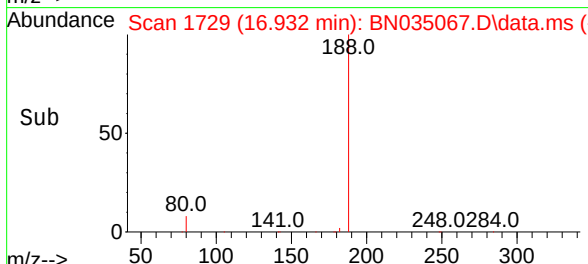
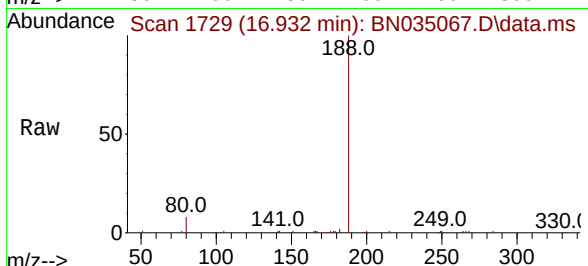




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.932 min Scan# 11
 Delta R.T. -0.007 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

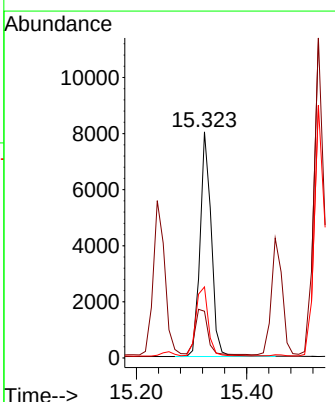
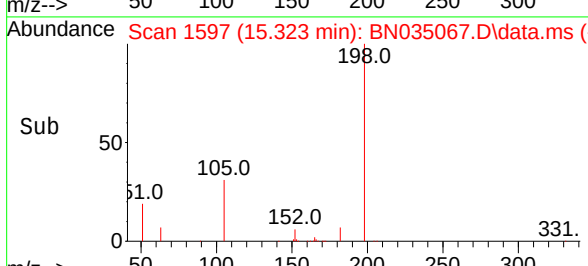
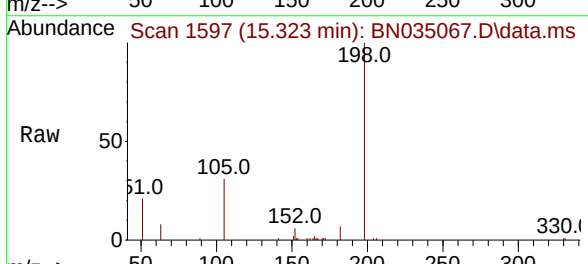
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

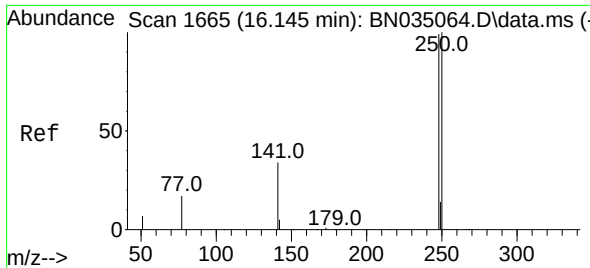
Tgt Ion:	188	Resp:	14864
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	8.3	4.3	6.5



#20
 4,6-Dinitro-2-methylphenol
 Concen: 3.661 ng
 RT: 15.323 min Scan# 1597
 Delta R.T. -0.007 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Tgt Ion:	198	Resp:	11328
Ion Ratio	Lower	Upper	
198	100		
51	20.6	29.9	44.9
105	31.4	23.7	35.5

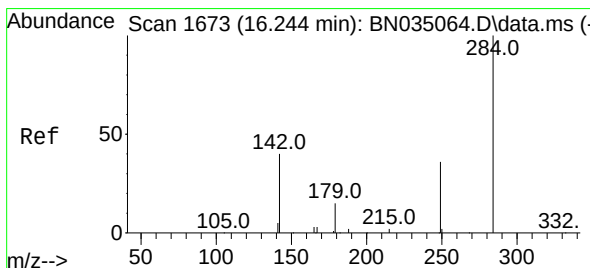
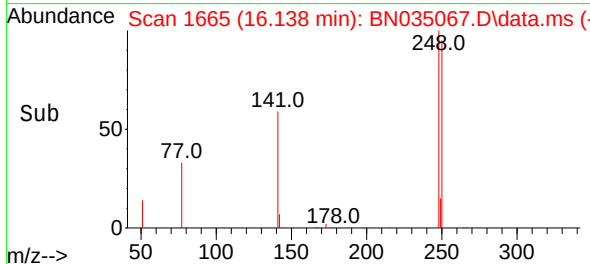
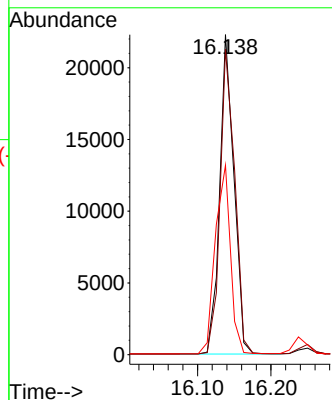
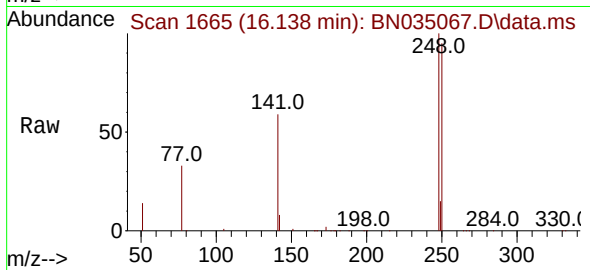




#21
4-Bromophenyl-phenylether
Concen: 3.169 ng
RT: 16.138 min Scan# 1665
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

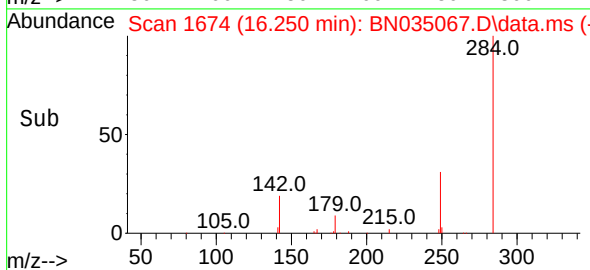
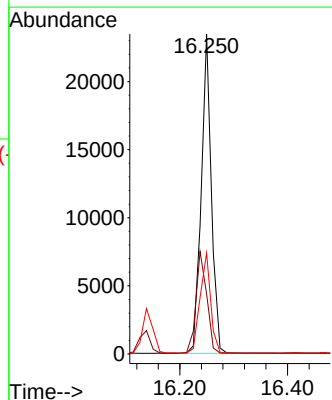
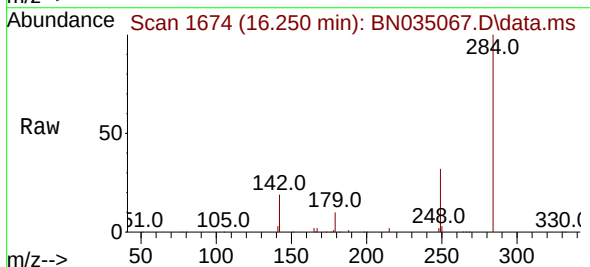
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

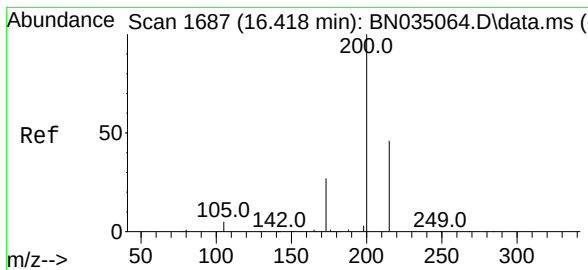
Tgt Ion:248 Resp: 30013
Ion Ratio Lower Upper
248 100
250 95.4 81.2 121.8
141 59.2 29.1 43.7#



#22
Hexachlorobenzene
Concen: 3.117 ng
RT: 16.250 min Scan# 1674
Delta R.T. 0.005 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:284 Resp: 30635
Ion Ratio Lower Upper
284 100
142 33.9 28.2 42.4
249 32.8 26.2 39.2

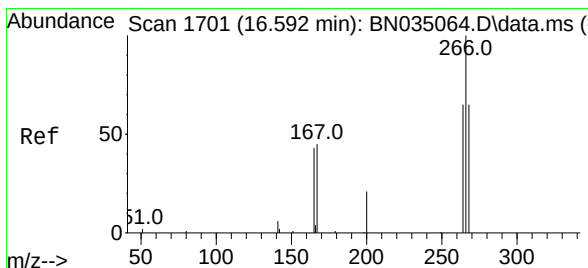
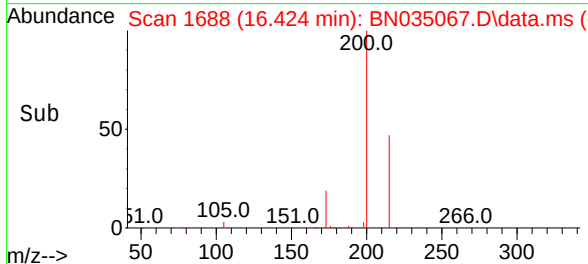
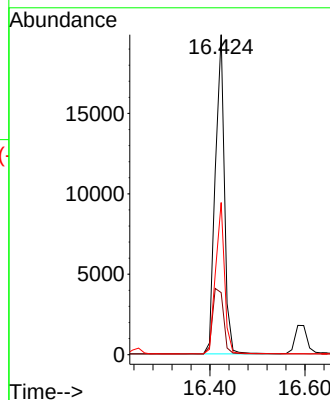
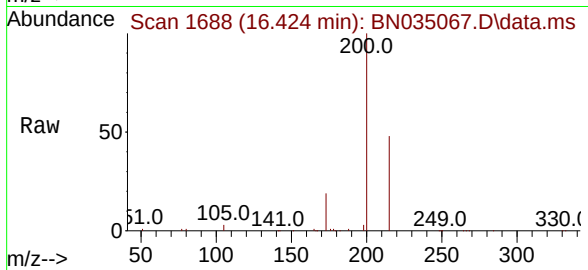




#23
 Atrazine
 Concen: 3.127 ng
 RT: 16.424 min Scan# 1688
 Delta R.T. 0.005 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

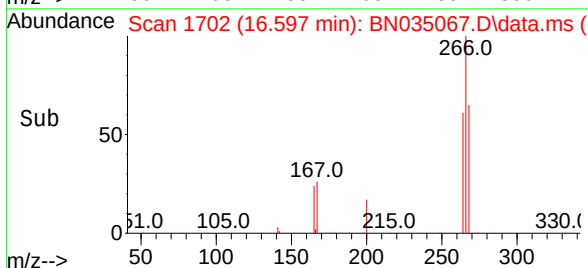
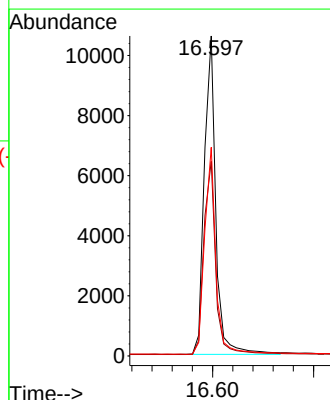
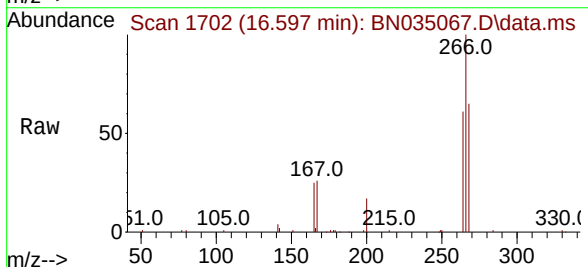
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

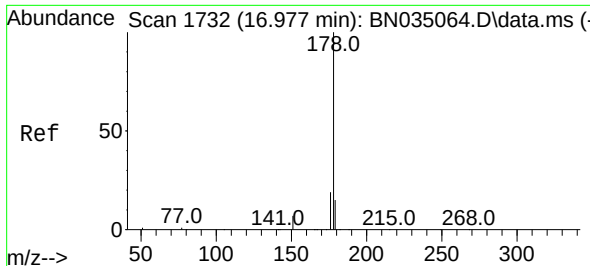
Tgt Ion:	200	Resp:	26567
Ion Ratio	Lower	Upper	
200	100		
173	19.4	22.6	33.8#
215	47.5	37.8	56.6



#24
 Pentachlorophenol
 Concen: 3.656 ng
 RT: 16.597 min Scan# 1702
 Delta R.T. 0.005 min
 Lab File: BN035067.D
 Acq: 13 Nov 2024 15:39

Tgt Ion:	266	Resp:	16789
Ion Ratio	Lower	Upper	
266	100		
264	62.8	49.4	74.0
268	64.0	52.6	79.0





#25

Phenanthrene

Concen: 3.144 ng

RT: 16.982 min Scan# 11

Delta R.T. 0.005 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

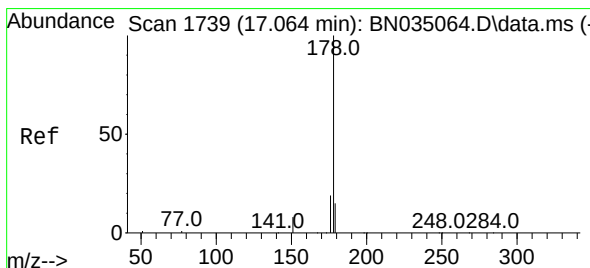
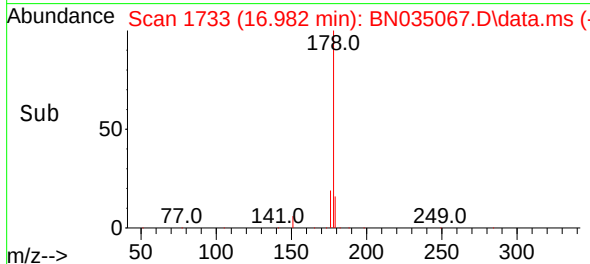
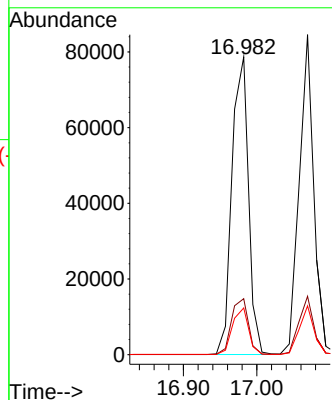
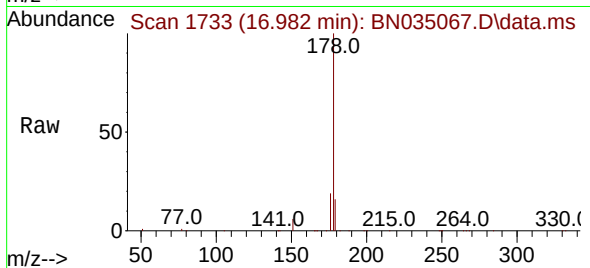
Tgt Ion:178 Resp: 123000

Ion Ratio Lower Upper

178 100

176 19.2 15.2 22.8

179 15.3 12.6 18.8



#26

Anthracene

Concen: 3.265 ng

RT: 17.069 min Scan# 1740

Delta R.T. 0.005 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

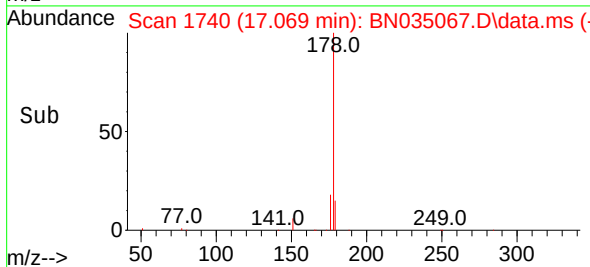
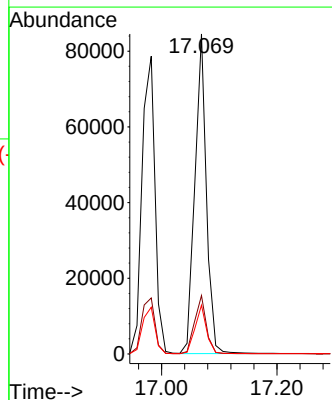
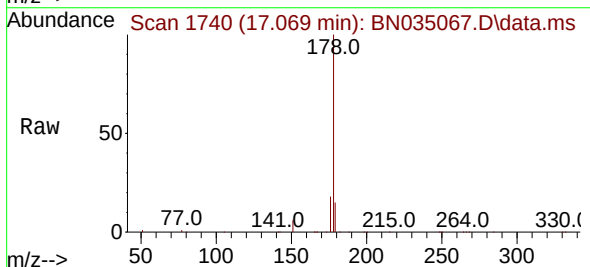
Tgt Ion:178 Resp: 117301

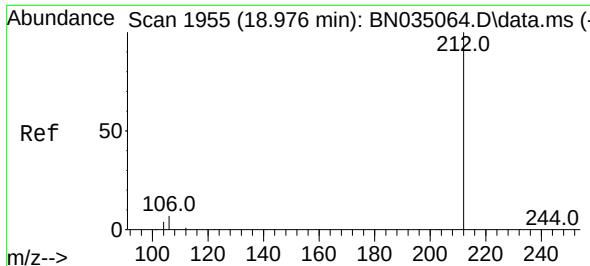
Ion Ratio Lower Upper

178 100

176 18.5 14.6 22.0

179 15.2 12.2 18.2

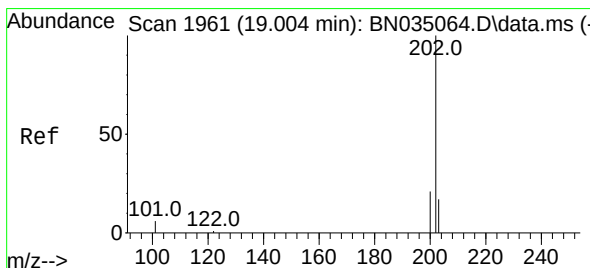
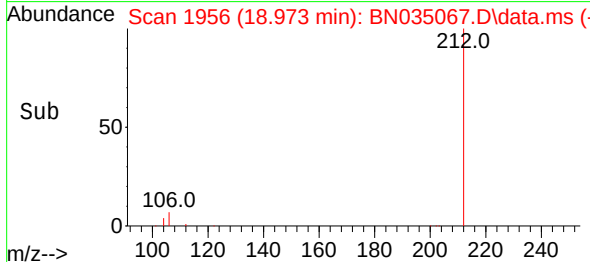
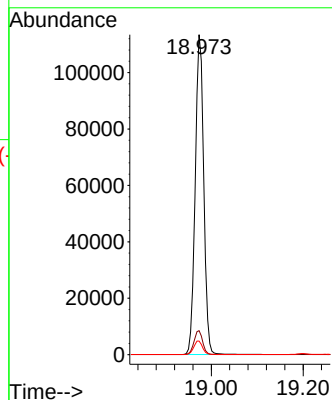
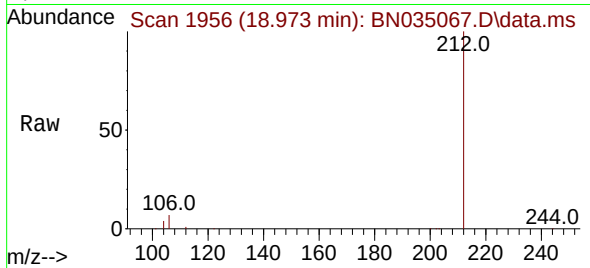




#27
Fluoranthene-d10
Concen: 3.191 ng
RT: 18.973 min Scan# 1955
Delta R.T. -0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

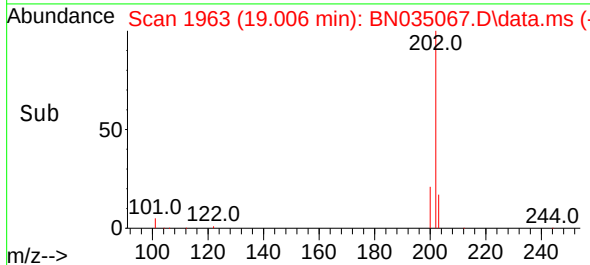
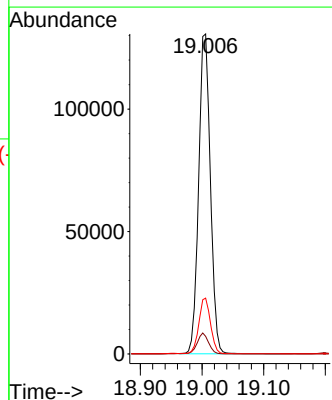
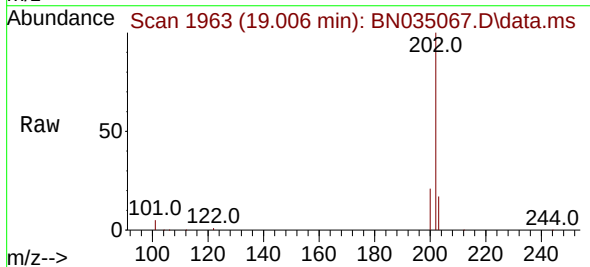
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

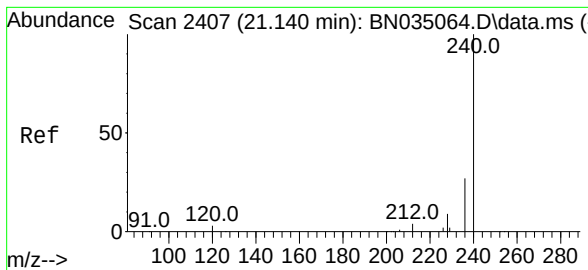
Tgt Ion:212 Resp: 145321
Ion Ratio Lower Upper
212 100
106 7.5 6.0 9.0
104 4.3 3.5 5.3



#28
Fluoranthene
Concen: 3.212 ng
RT: 19.006 min Scan# 1963
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:202 Resp: 172759
Ion Ratio Lower Upper
202 100
101 6.4 5.2 7.8
203 17.3 13.8 20.8

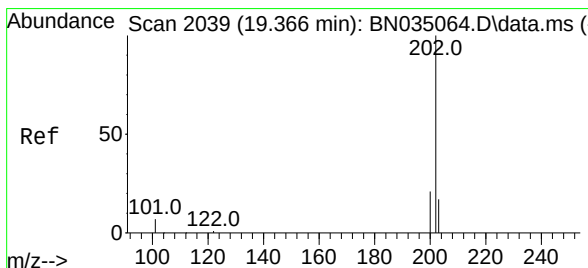
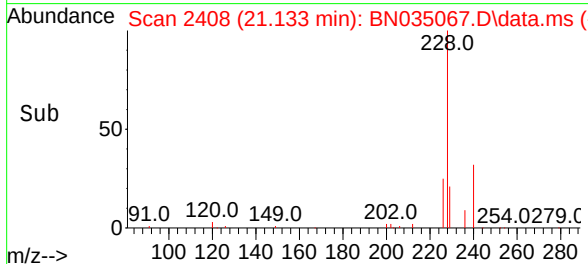
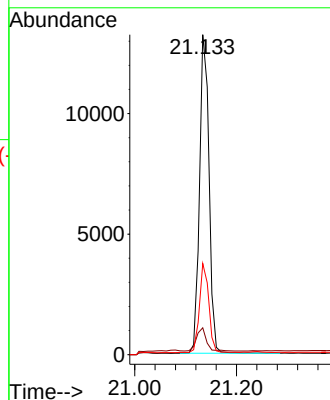
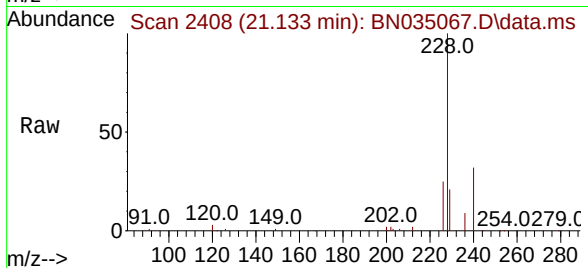




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.133 min Scan# 2408
Delta R.T. -0.007 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

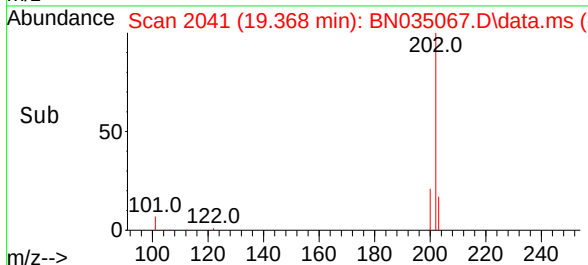
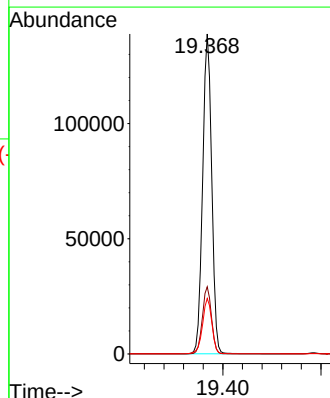
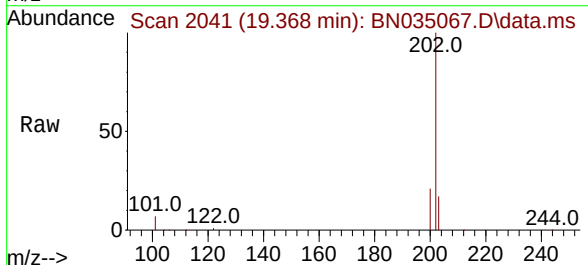
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

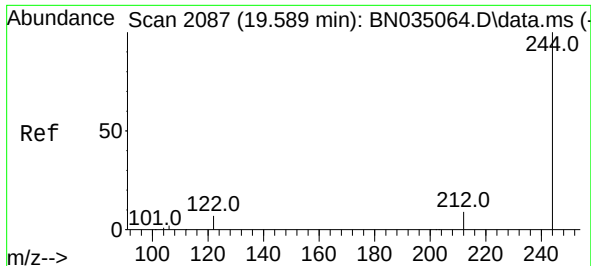
Tgt Ion:240 Resp: 17096
Ion Ratio Lower Upper
240 100
120 8.4 3.8 5.6#
236 28.5 22.2 33.2



#30
Pyrene
Concen: 3.125 ng
RT: 19.368 min Scan# 2041
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:202 Resp: 177937
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 17.8 14.2 21.4

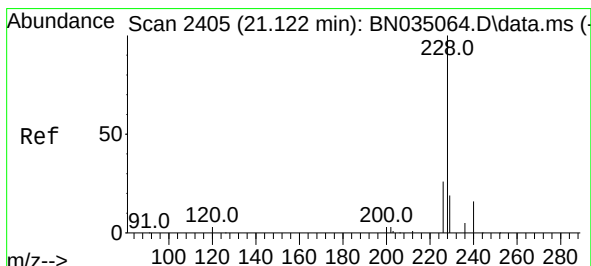
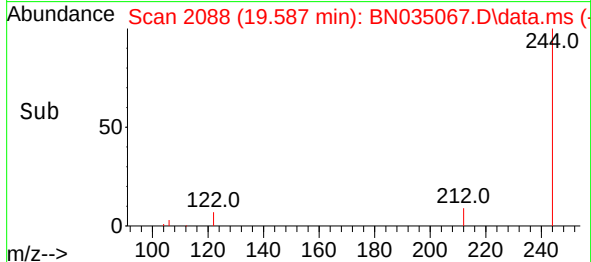
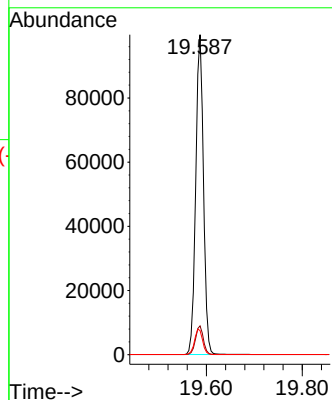
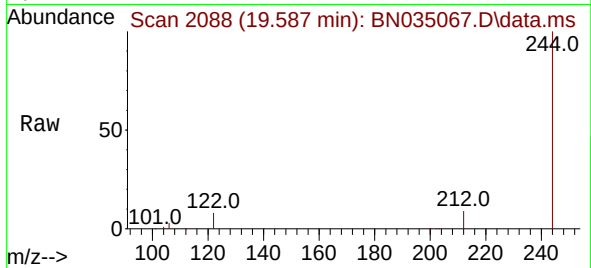




#31
Terphenyl-d14
Concen: 3.115 ng
RT: 19.587 min Scan# 2087
Delta R.T. -0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

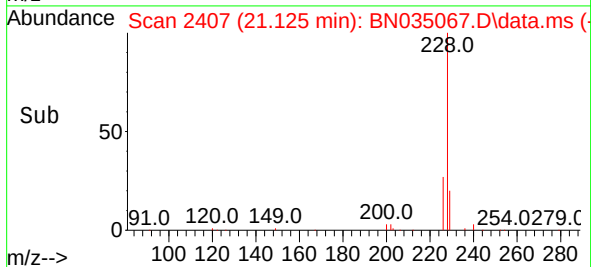
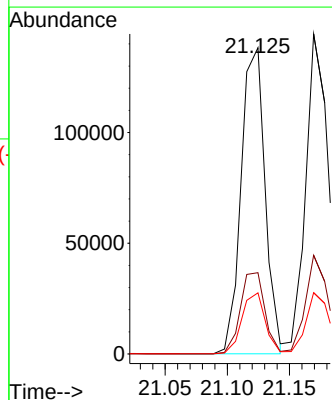
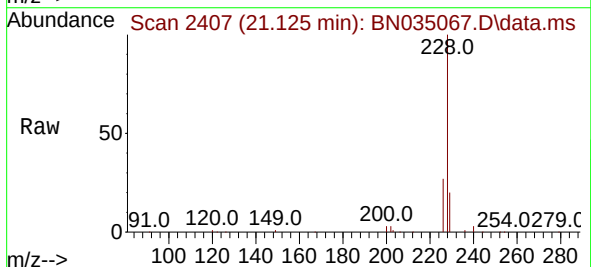
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

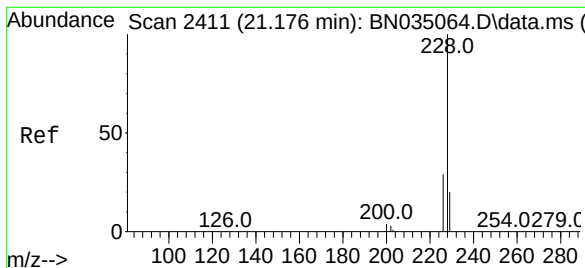
Tgt Ion:244 Resp: 111732
Ion Ratio Lower Upper
244 100
212 9.0 7.6 11.4
122 7.6 6.1 9.1



#32
Benzo(a)anthracene
Concen: 3.114 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.002 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:228 Resp: 185345
Ion Ratio Lower Upper
228 100
226 26.5 21.4 32.0
229 20.0 15.7 23.5





#33

Chrysene

Concen: 3.087 ng

RT: 21.169 min Scan# 2411

Delta R.T. -0.007 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

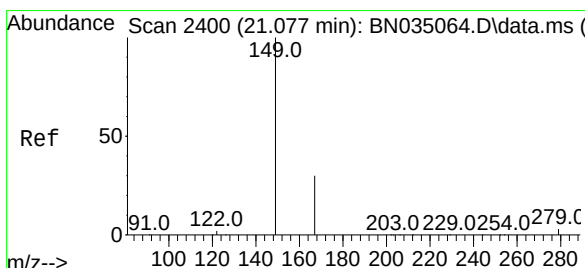
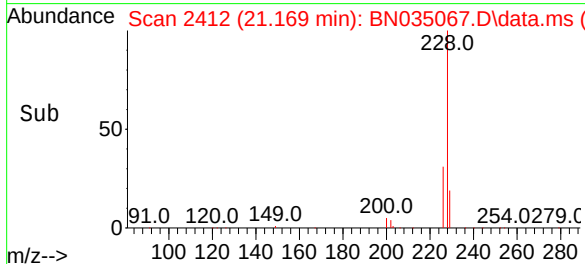
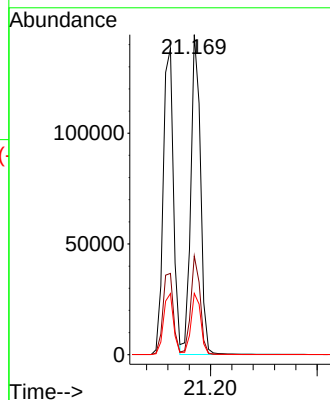
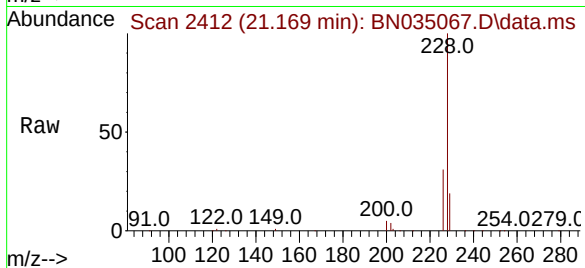
Tgt Ion:228 Resp: 182053

Ion Ratio Lower Upper

228 100

226 30.9 23.7 35.5

229 19.1 16.2 24.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.061 ng

RT: 21.080 min Scan# 2402

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

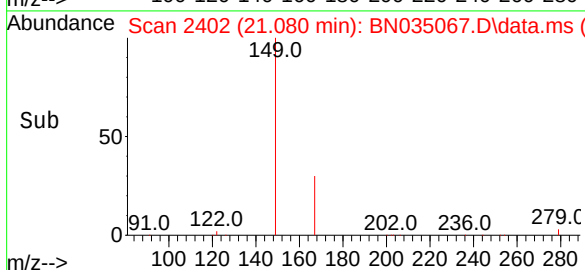
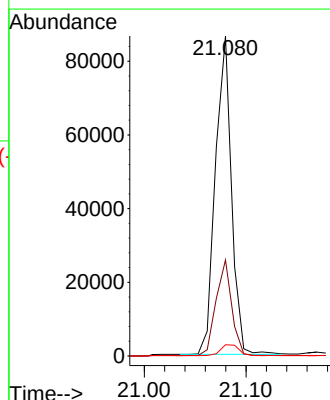
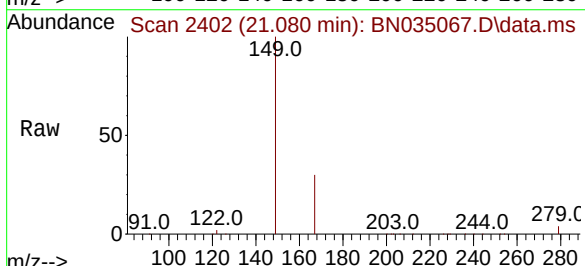
Tgt Ion:149 Resp: 94826

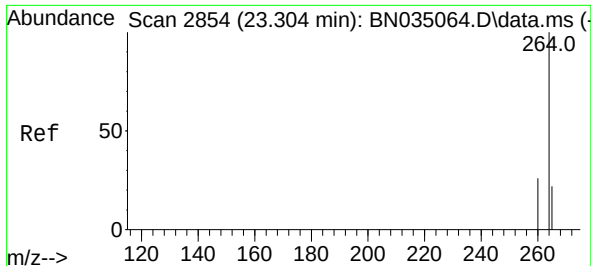
Ion Ratio Lower Upper

149 100

167 29.3 23.2 34.8

279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.303 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

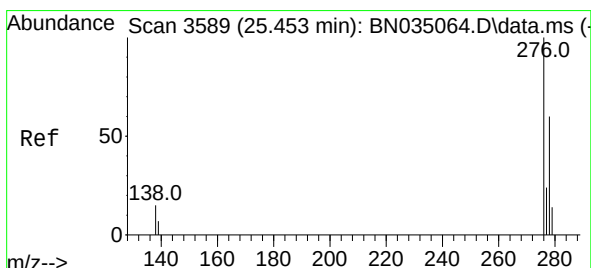
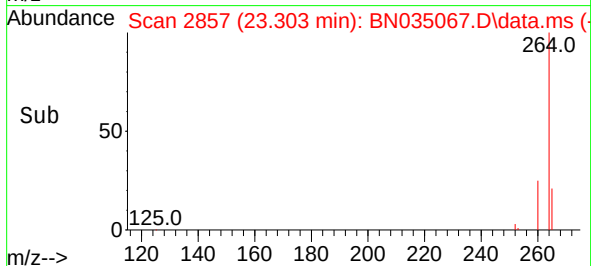
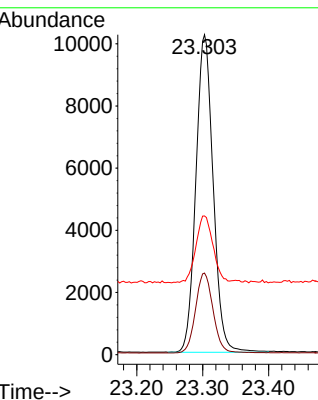
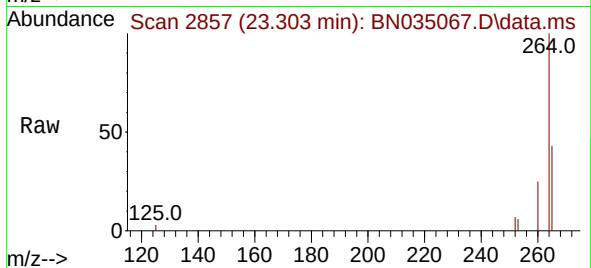
Tgt Ion:264 Resp: 18582

Ion Ratio Lower Upper

264 100

260 25.5 20.9 31.3

265 43.4 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.108 ng

RT: 25.455 min Scan# 3593

Delta R.T. 0.002 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

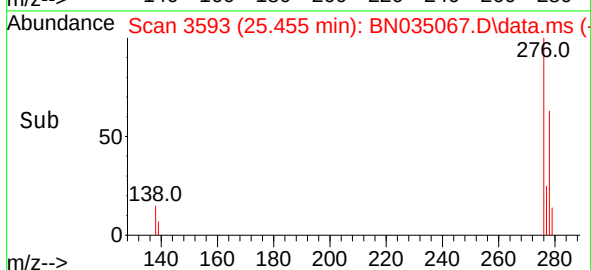
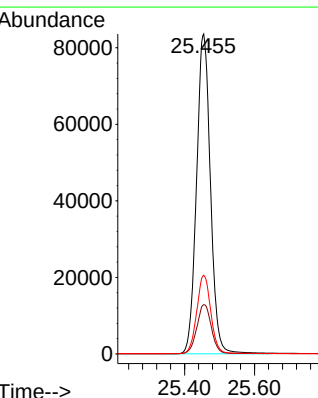
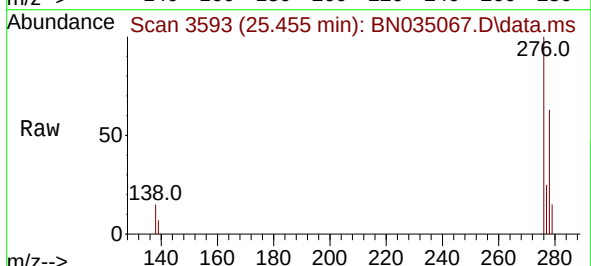
Tgt Ion:276 Resp: 230419

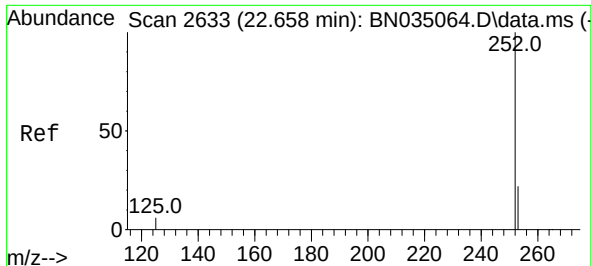
Ion Ratio Lower Upper

276 100

138 16.0 13.0 19.4

277 24.8 19.8 29.6

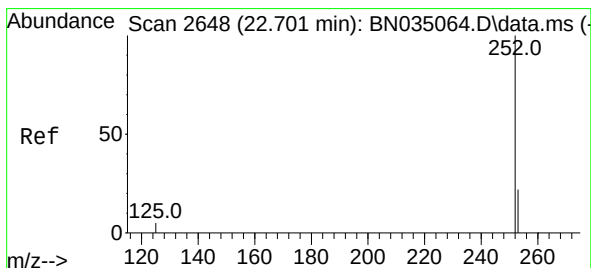
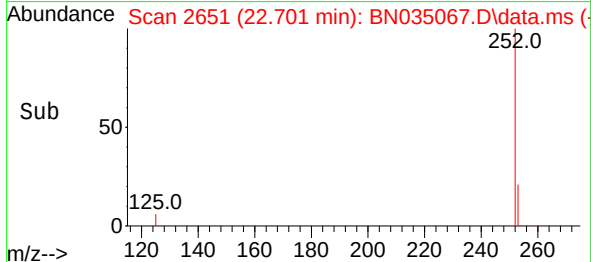
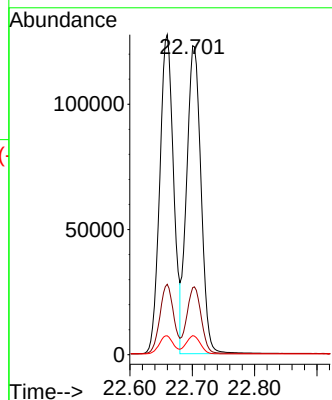
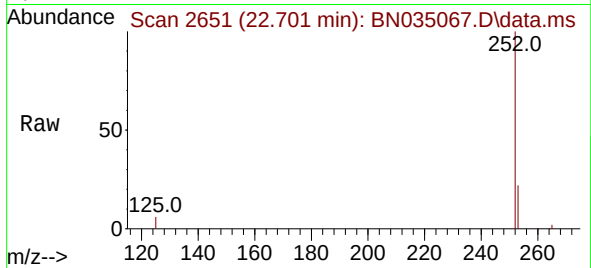




#37
Benzo(b)fluoranthene
Concen: 3.146 ng
RT: 22.701 min Scan# 2651
Delta R.T. 0.043 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

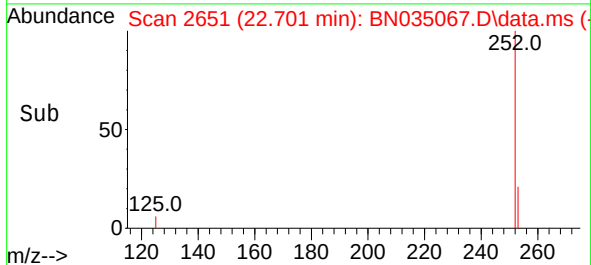
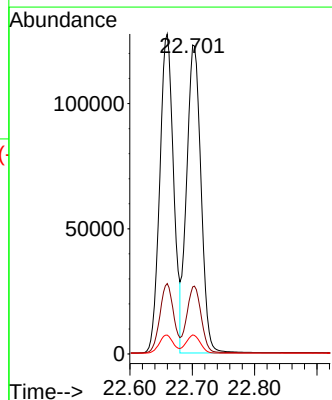
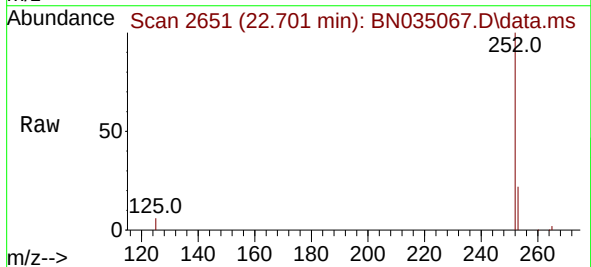
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

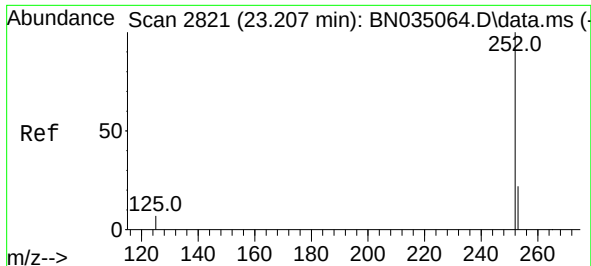
Tgt Ion:252 Resp: 196686
Ion Ratio Lower Upper
252 100
253 21.7 19.3 28.9
125 6.2 6.2 9.2



#38
Benzo(k)fluoranthene
Concen: 3.144 ng
RT: 22.701 min Scan# 2651
Delta R.T. -0.001 min
Lab File: BN035067.D
Acq: 13 Nov 2024 15:39

Tgt Ion:252 Resp: 196686
Ion Ratio Lower Upper
252 100
253 21.7 19.5 29.3
125 6.2 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 3.155 ng

RT: 23.209 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN035067.D

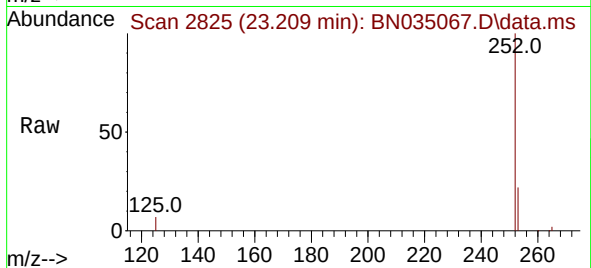
Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



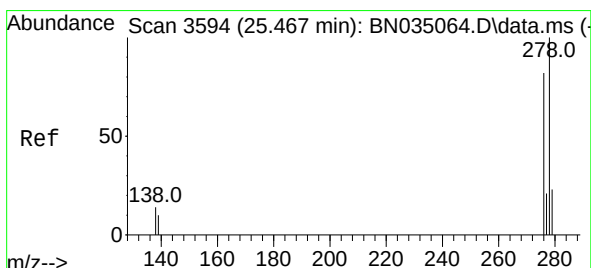
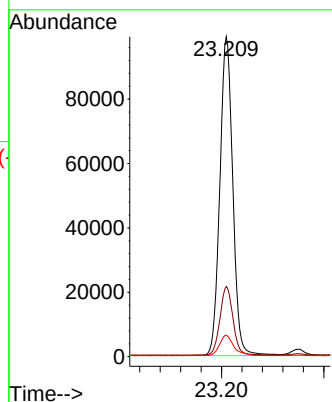
Tgt Ion:252 Resp: 173547

Ion Ratio Lower Upper

252 100

253 22.0 20.1 30.1

125 6.7 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 3.127 ng

RT: 25.466 min Scan# 3597

Delta R.T. -0.001 min

Lab File: BN035067.D

Acq: 13 Nov 2024 15:39

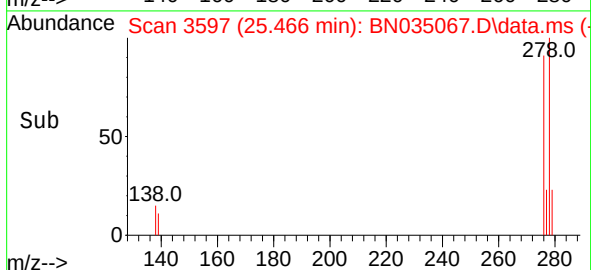
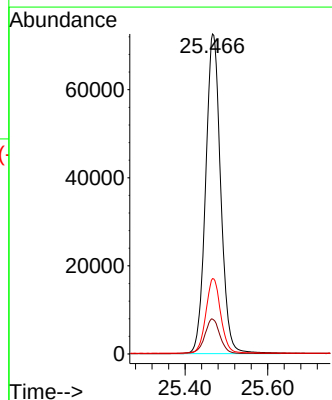
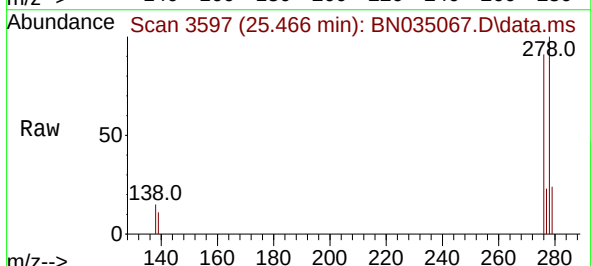
Tgt Ion:278 Resp: 183641

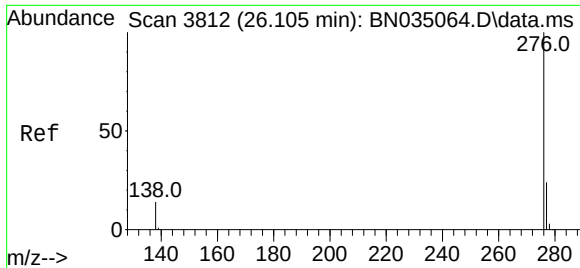
Ion Ratio Lower Upper

278 100

139 10.9 9.3 13.9

279 23.6 19.7 29.5





#41

Benzo(g,h,i)perylene

Concen: 3.079 ng

RT: 26.107 min Scan# 3812

Delta R.T. 0.002 min

Lab File: BN035067.D

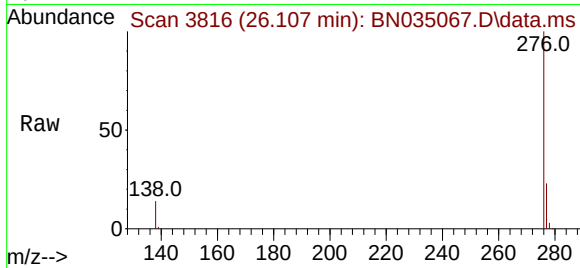
Acq: 13 Nov 2024 15:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



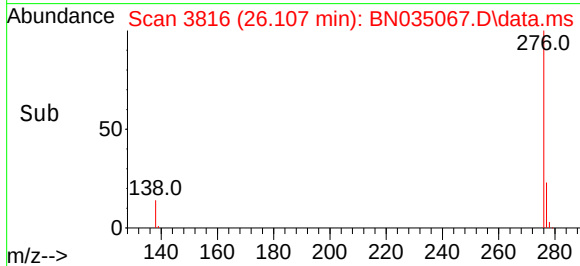
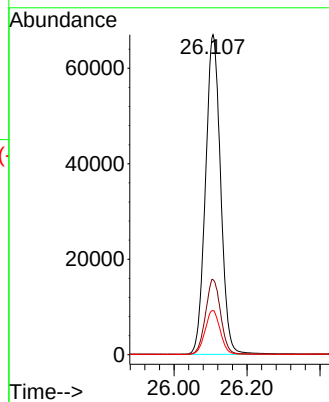
Tgt Ion:276 Resp: 192341

Ion Ratio Lower Upper

276 100

277 23.4 19.9 29.9

138 13.8 11.6 17.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
 Data File : BN035069.D
 Acq On : 13 Nov 2024 16:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN111324

Quant Time: Nov 13 17:18:36 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 17:18:14 2024
 Response via : Initial Calibration

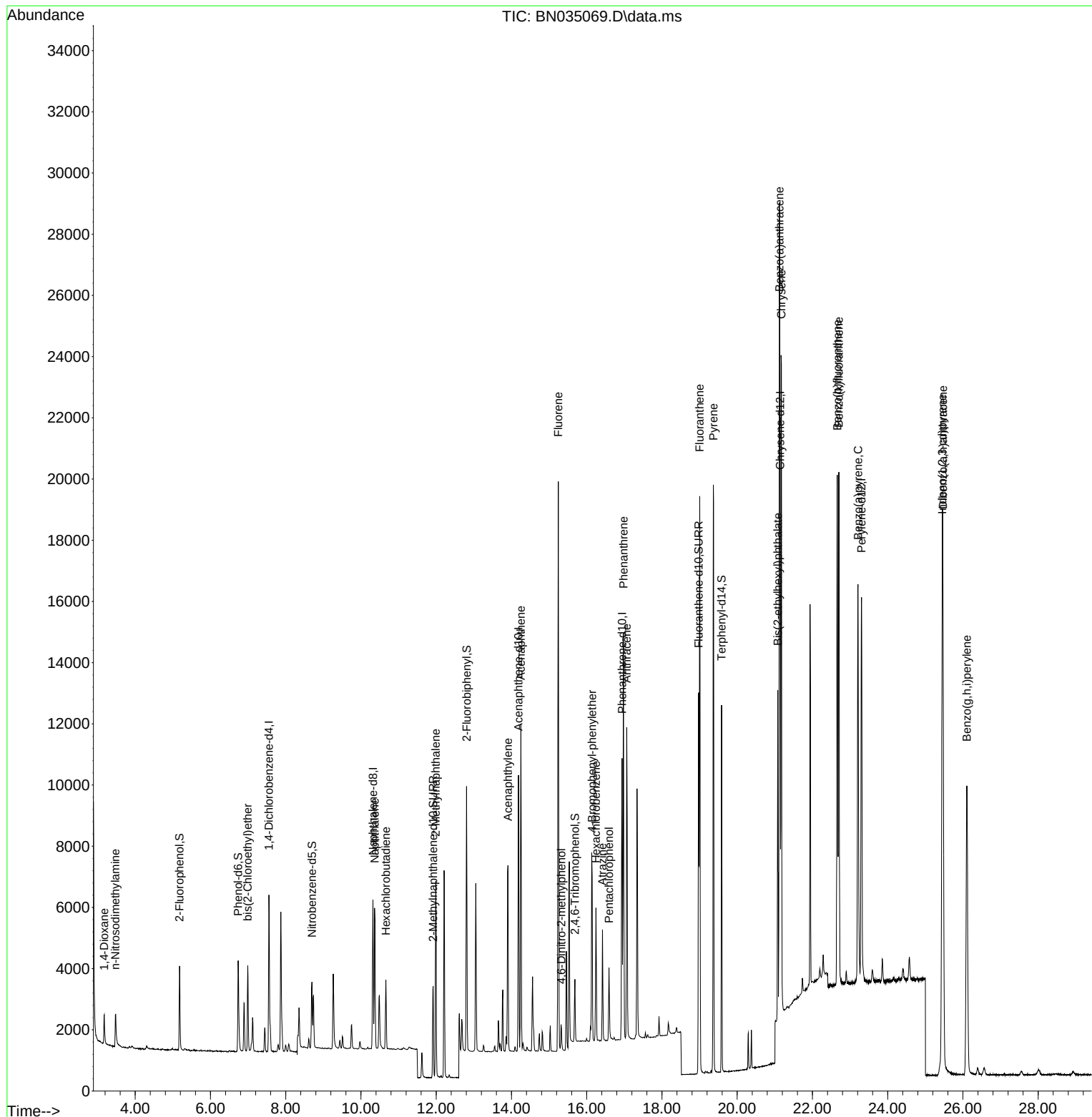
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.553	152	2509	0.400	ng	0.00
7) Naphthalene-d8	10.319	136	6367	0.400	ng	0.00
13) Acenaphthene-d10	14.186	164	4967	0.400	ng	0.00
19) Phenanthrene-d10	16.939	188	12682	0.400	ng	0.00
29) Chrysene-d12	21.140	240	14055	0.400	ng	0.00
35) Perylene-d12	23.304	264	15724	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2342	0.368	ng	0.00
5) Phenol-d6	6.737	99	2867	0.359	ng	0.00
8) Nitrobenzene-d5	8.696	82	1983	0.358	ng	0.00
11) 2-Methylnaphthalene-d10	11.916	152	4166	0.367	ng	0.00
14) 2,4,6-Tribromophenol	15.686	330	1154	0.322	ng	0.00
15) 2-Fluorobiphenyl	12.807	172	7205	0.357	ng	0.00
27) Fluoranthene-d10	18.976	212	14530	0.374	ng	0.00
31) Terphenyl-d14	19.584	244	11240	0.381	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.177	88	845	0.371	ng	99
3) n-Nitrosodimethylamine	3.473	42	781	0.368	ng	# 94
6) bis(2-Chloroethyl)ether	6.990	93	2218	0.370	ng	98
9) Naphthalene	10.362	128	6092	0.366	ng	100
10) Hexachlorobutadiene	10.661	225	1817	0.373	ng	# 98
12) 2-Methylnaphthalene	11.988	142	4513	0.368	ng	99
16) Acenaphthylene	13.908	152	7387	0.348	ng	100
17) Acenaphthene	14.250	154	4995	0.359	ng	99
18) Fluorene	15.245	166	7206	0.352	ng	100
20) 4,6-Dinitro-2-methylph...	15.330	198	830	0.314	ng	# 90
21) 4-Bromophenyl-phenylether	16.145	248	3001	0.371	ng	98
22) Hexachlorobenzene	16.244	284	3175	0.379	ng	99
23) Atrazine	16.418	200	2682	0.370	ng	98
24) Pentachlorophenol	16.592	266	1269	0.324	ng	98
25) Phenanthrene	16.977	178	12517	0.375	ng	99
26) Anthracene	17.063	178	11219	0.366	ng	100
28) Fluoranthene	19.004	202	17084	0.372	ng	100
30) Pyrene	19.366	202	17580	0.376	ng	100
32) Benzo(a)anthracene	21.122	228	18406	0.376	ng	99
33) Chrysene	21.176	228	18693	0.386	ng	99
34) Bis(2-ethylhexyl)phtha...	21.077	149	8691	0.338	ng	100
36) Indeno(1,2,3-cd)pyrene	25.450	276	23546	0.375	ng	99
37) Benzo(b)fluoranthene	22.660	252	20039	0.379	ng	99
38) Benzo(k)fluoranthene	22.701	252	20114	0.380	ng	98
39) Benzo(a)pyrene	23.210	252	17596	0.378	ng	99
40) Dibenzo(a,h)anthracene	25.467	278	18547	0.373	ng	98
41) Benzo(g,h,i)perylene	26.104	276	19649	0.372	ng	99

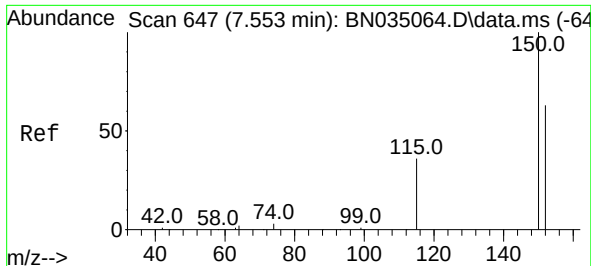
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN111324\
Data File : BN035069.D
Acq On : 13 Nov 2024 16:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

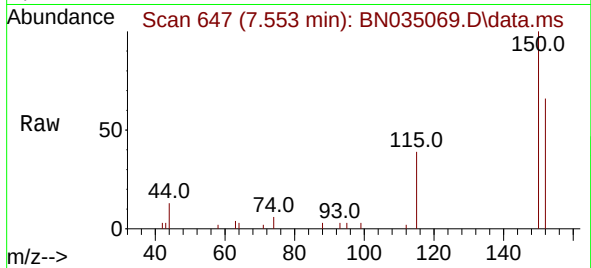
Quant Time: Nov 13 17:18:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 17:18:14 2024
Response via : Initial Calibration



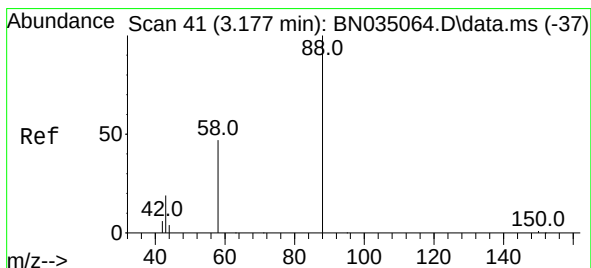
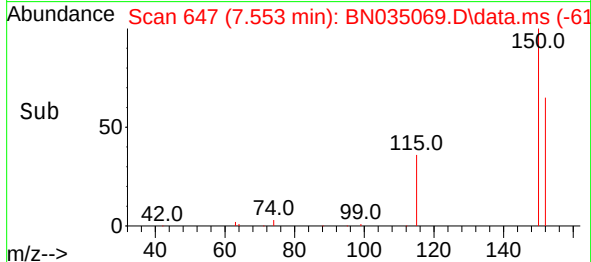
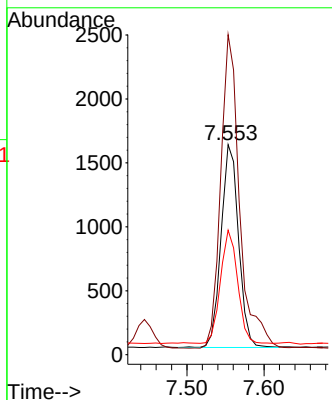


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.553 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324

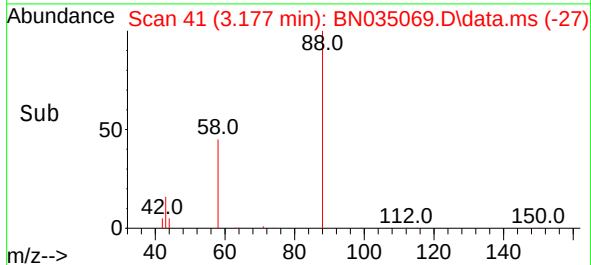
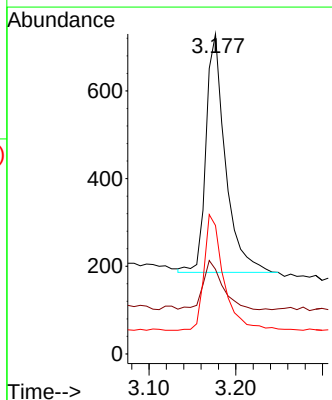
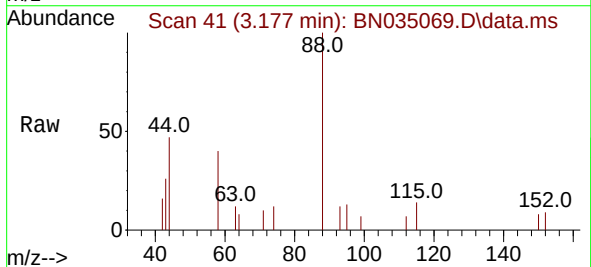


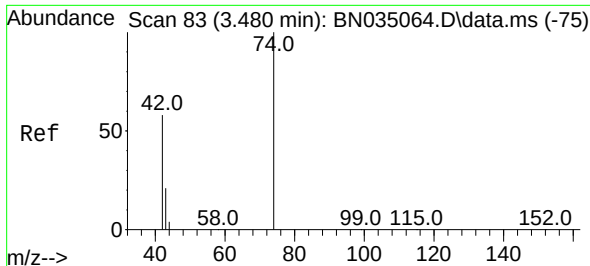
Tgt Ion:152 Resp: 2509
Ion Ratio Lower Upper
152 100
150 152.3 124.5 186.7
115 59.3 47.8 71.6



#2
1,4-Dioxane
Concen: 0.371 ng
RT: 3.177 min Scan# 41
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 88 Resp: 845
Ion Ratio Lower Upper
88 100
43 20.8 16.9 25.3
58 49.1 39.0 58.4

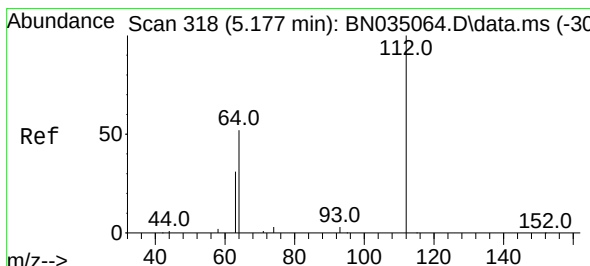
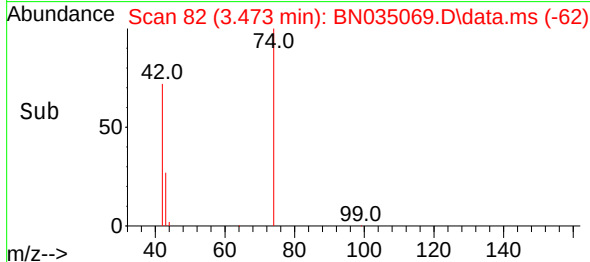
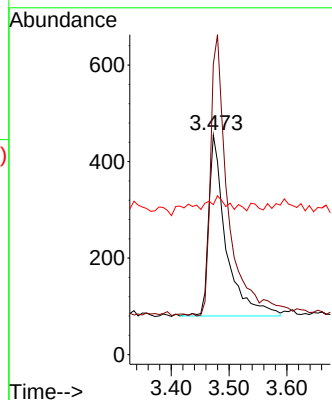
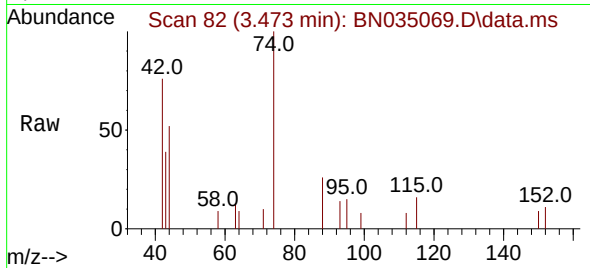




#3
 n-Nitrosodimethylamine
 Concen: 0.368 ng
 RT: 3.473 min Scan# 81
 Delta R.T. -0.007 min
 Lab File: BN035069.D
 Acq: 13 Nov 2024 16:51

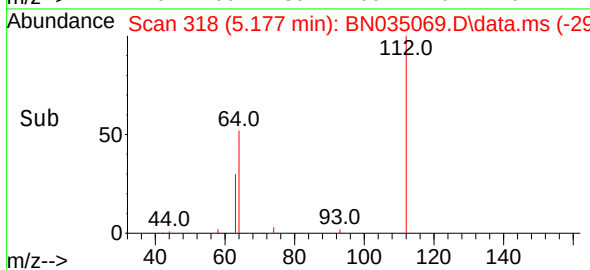
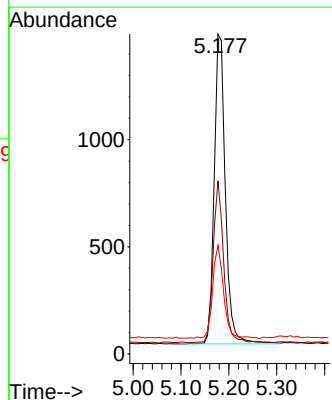
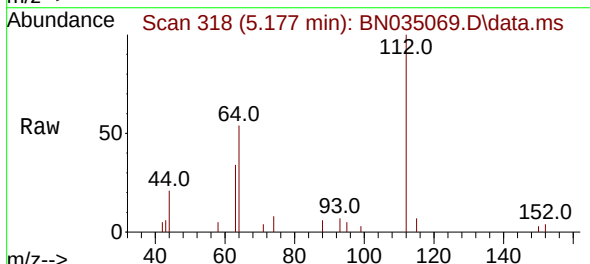
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN111324

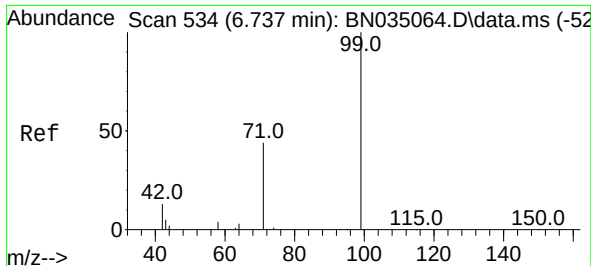
Tgt Ion: 42 Resp: 781
 Ion Ratio Lower Upper
 42 100
 74 158.6 120.8 181.2
 44 8.7 2.9 4.3#



#4
 2-Fluorophenol
 Concen: 0.368 ng
 RT: 5.177 min Scan# 318
 Delta R.T. -0.000 min
 Lab File: BN035069.D
 Acq: 13 Nov 2024 16:51

Tgt Ion: 112 Resp: 2342
 Ion Ratio Lower Upper
 112 100
 64 48.8 39.7 59.5
 63 30.1 23.0 34.4

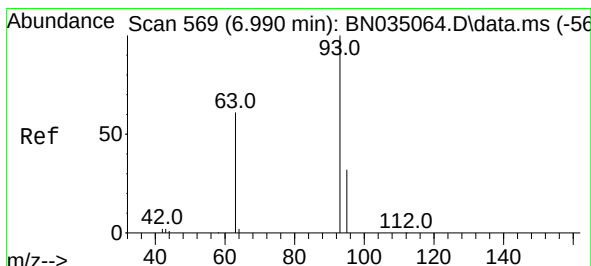
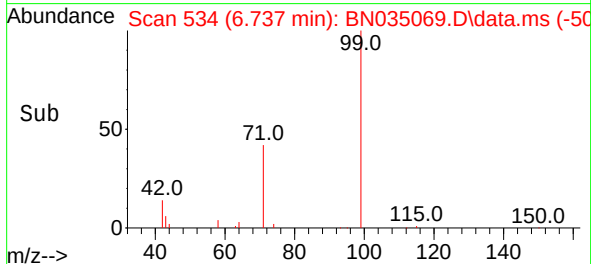
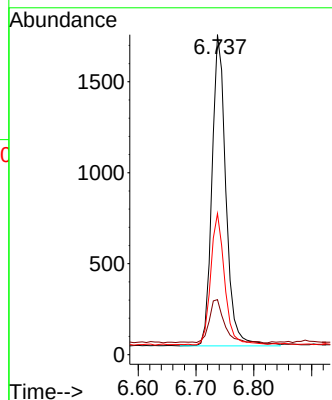
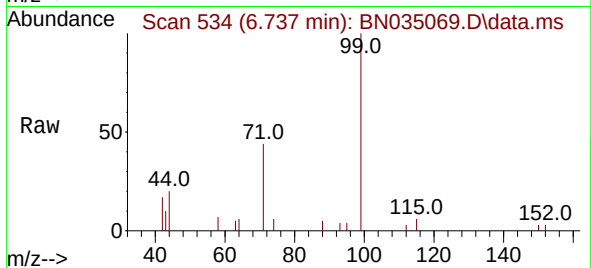




#5
Phenol-d6
Concen: 0.359 ng
RT: 6.737 min Scan# 534
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

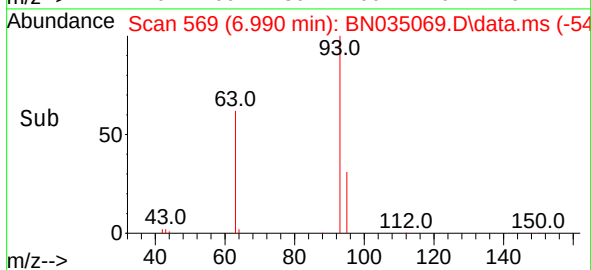
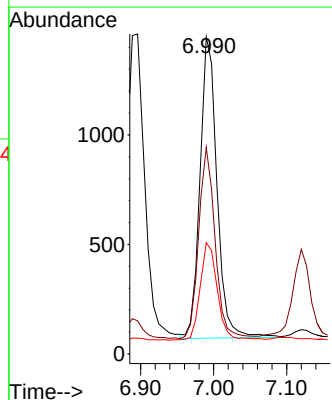
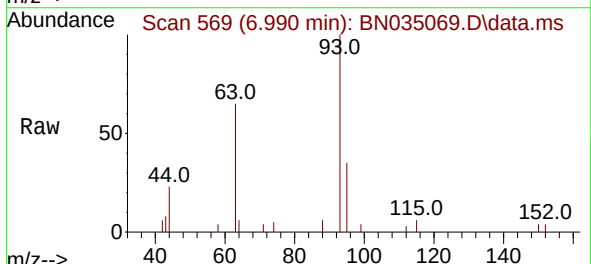
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

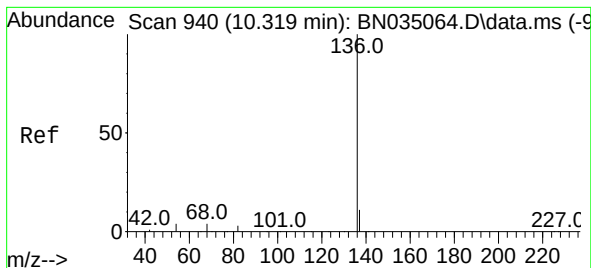
Tgt Ion: 99 Resp: 2867
Ion Ratio Lower Upper
99 100
42 14.4 11.4 17.0
71 42.1 34.6 51.8



#6
bis(2-Chloroethyl)ether
Concen: 0.370 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion: 93 Resp: 2218
Ion Ratio Lower Upper
93 100
63 61.3 47.4 71.2
95 33.0 26.2 39.4

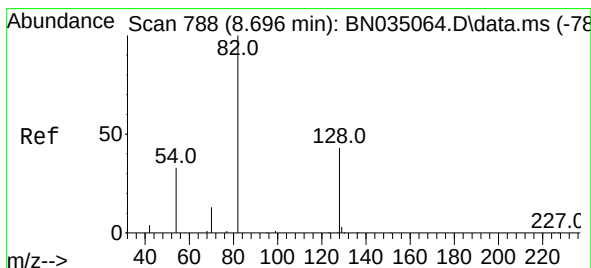
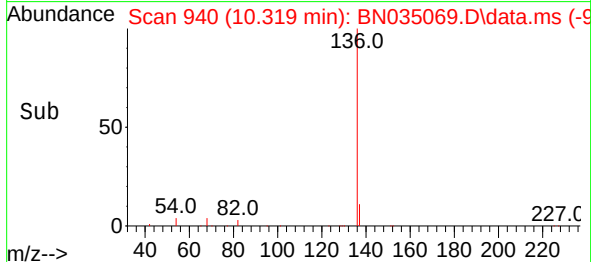
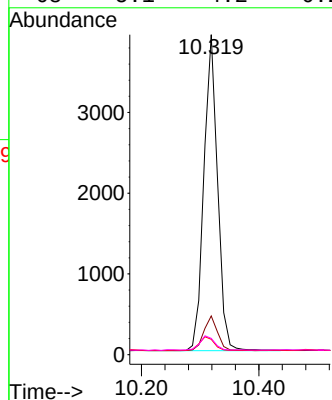
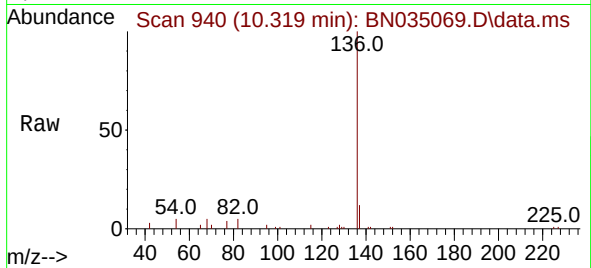




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

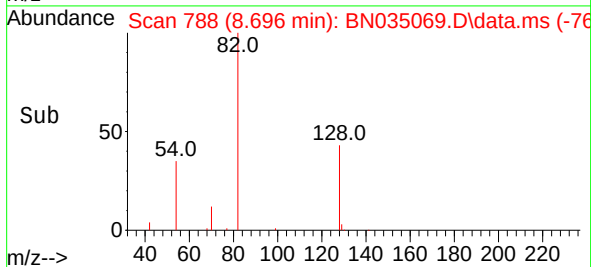
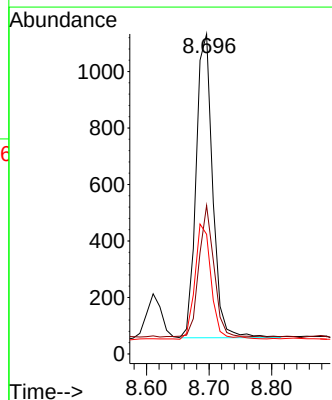
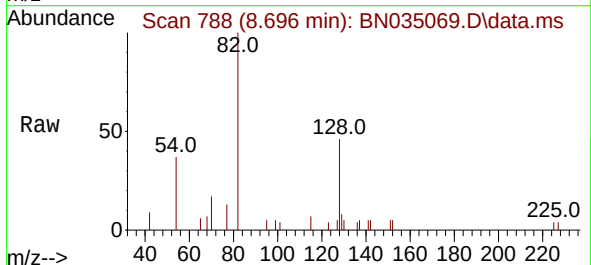
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

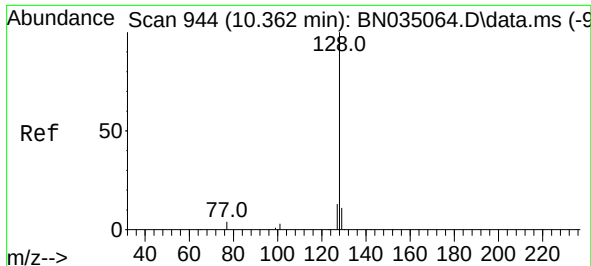
Tgt Ion:	136	Resp:	6367
Ion Ratio	Lower	Upper	
136	100		
137	12.1	9.8	14.8
54	4.8	4.0	6.0
68	5.1	4.2	6.2



#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.696 min Scan# 788
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:	82	Resp:	1983
Ion Ratio	Lower	Upper	
82	100		
128	46.4	36.5	54.7
54	37.4	28.7	43.1

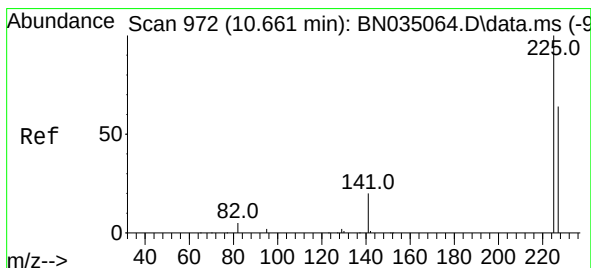
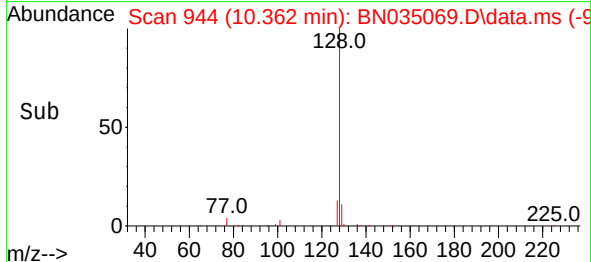
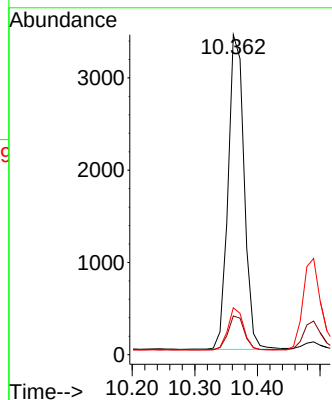
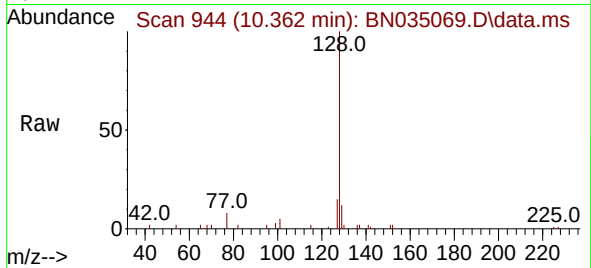




#9
Naphthalene
Concen: 0.366 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

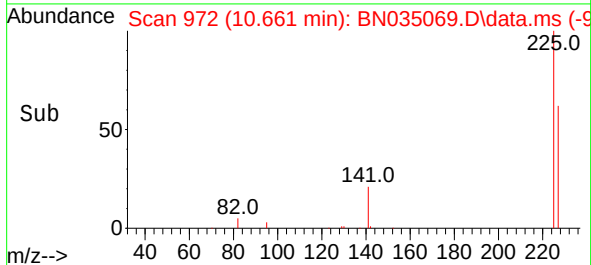
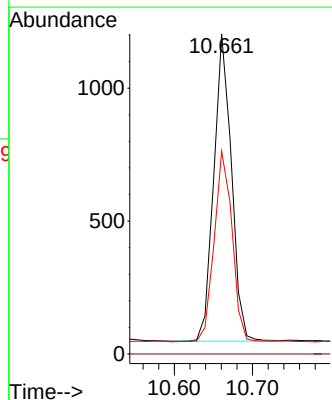
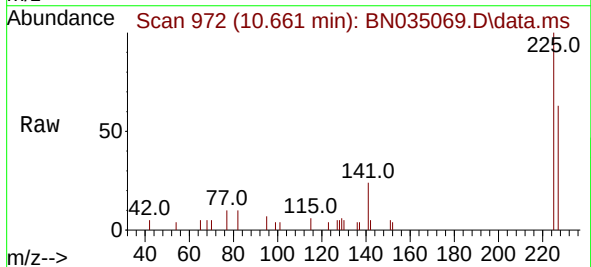
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

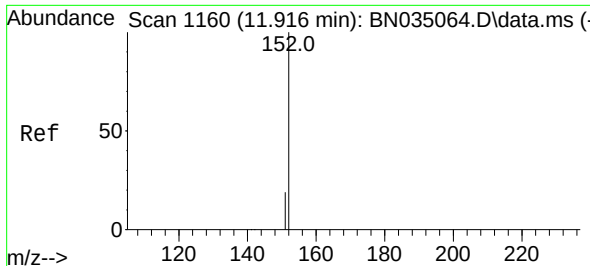
Tgt Ion:128 Resp: 6092
Ion Ratio Lower Upper
128 100
129 12.1 9.6 14.4
127 14.7 11.6 17.4



#10
Hexachlorobutadiene
Concen: 0.373 ng
RT: 10.661 min Scan# 972
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:225 Resp: 1817
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 51.5 77.3





#11

2-Methylnaphthalene-d10

Concen: 0.367 ng

RT: 11.916 min Scan# 1160

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

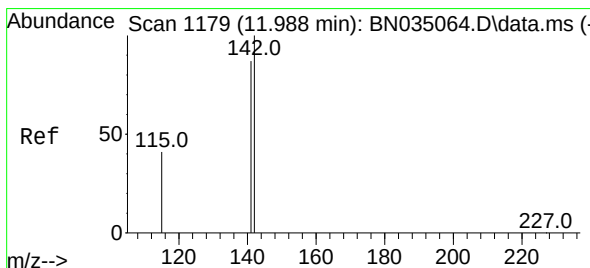
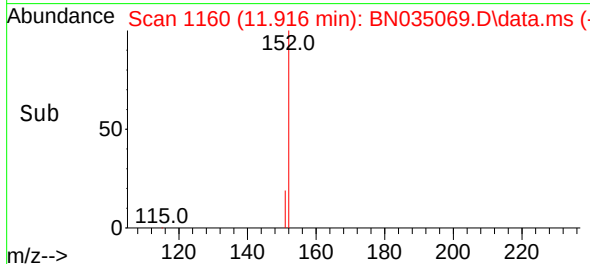
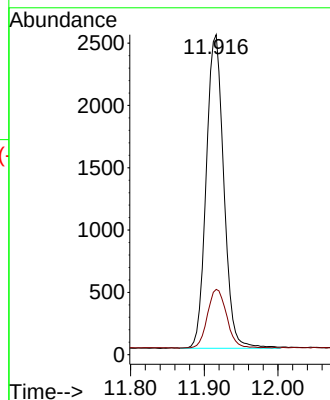
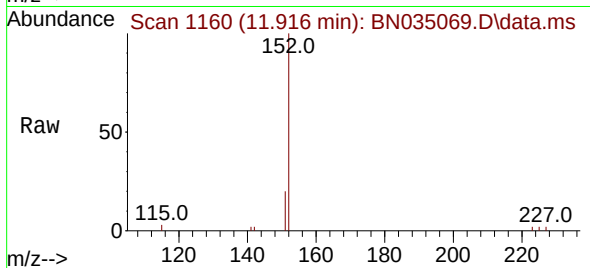
ICVBN111324

Tgt Ion:152 Resp: 4166

Ion Ratio Lower Upper

152 100

151 20.6 16.2 24.4



#12

2-Methylnaphthalene

Concen: 0.368 ng

RT: 11.988 min Scan# 1179

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

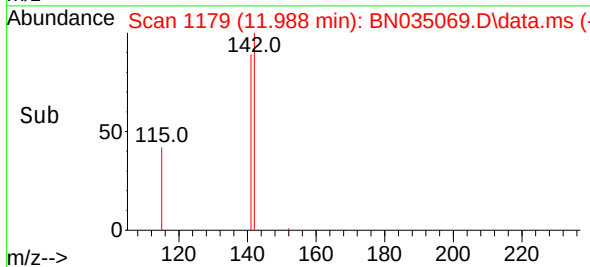
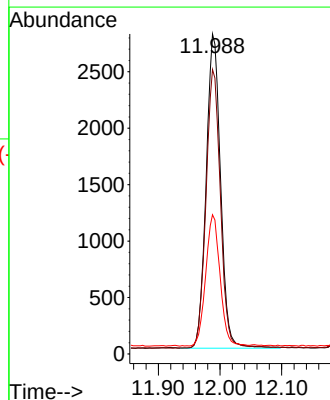
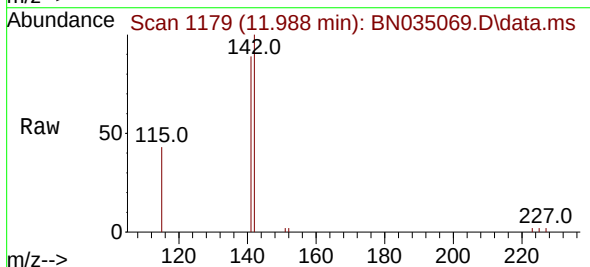
Tgt Ion:142 Resp: 4513

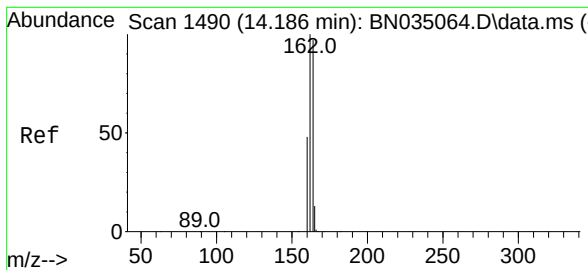
Ion Ratio Lower Upper

142 100

141 88.9 70.1 105.1

115 43.5 34.4 51.6

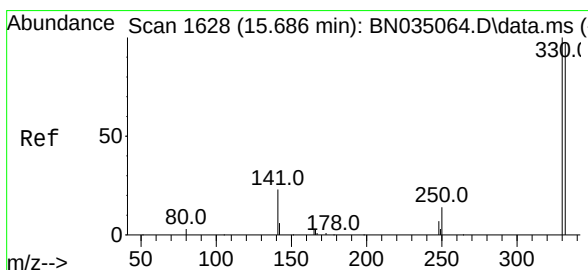
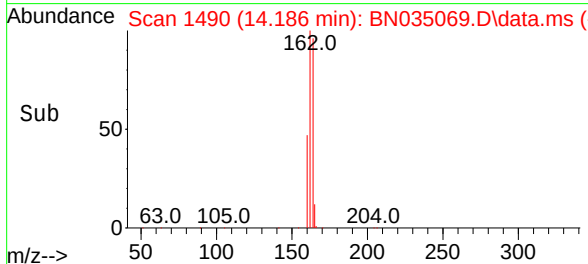
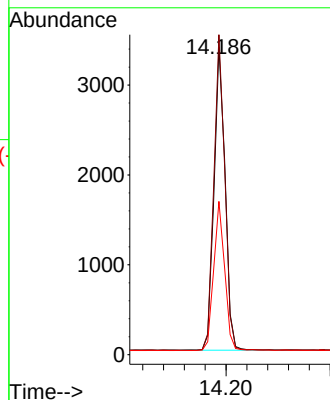
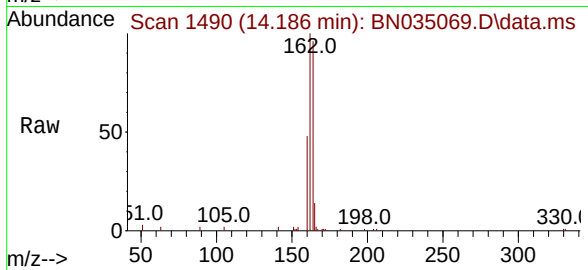




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.186 min Scan# 1490
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

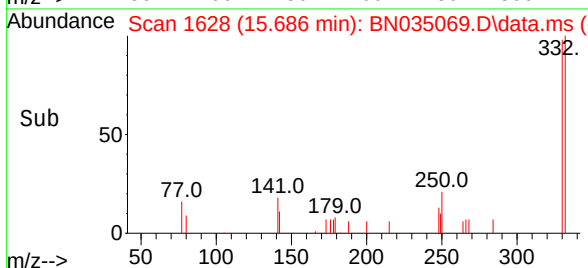
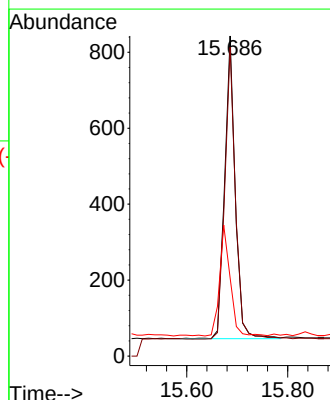
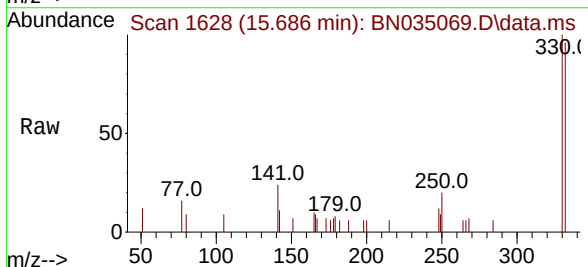
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

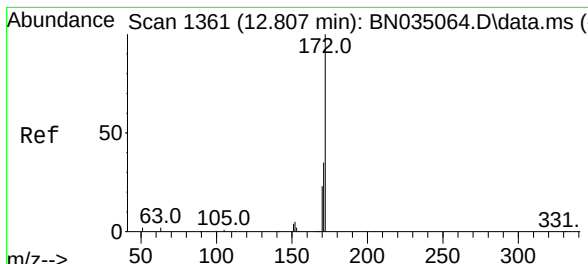
Tgt Ion:164 Resp: 4967
Ion Ratio Lower Upper
164 100
162 104.1 82.2 123.2
160 49.8 40.2 60.4



#14
2,4,6-Tribromophenol
Concen: 0.322 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:330 Resp: 1154
Ion Ratio Lower Upper
330 100
332 97.3 76.9 115.3
141 36.7 29.6 44.4

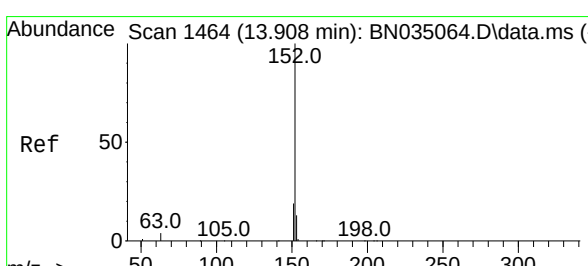
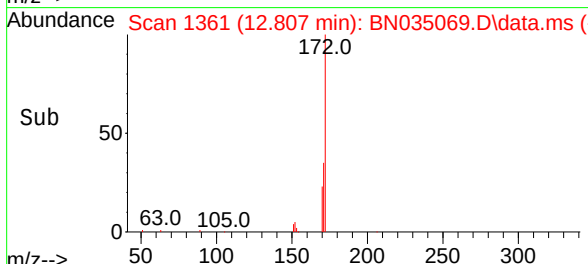
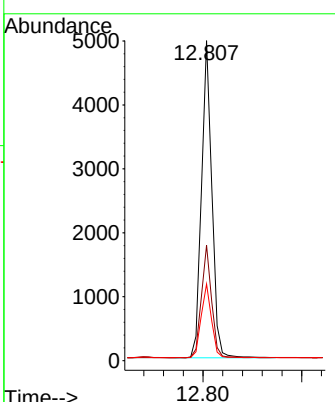
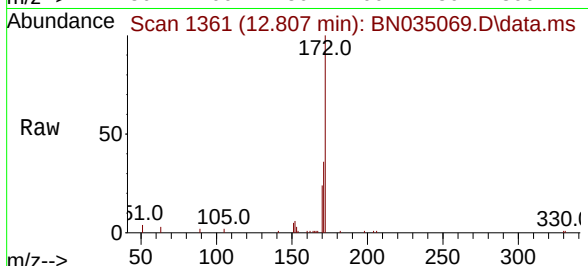




#15
 2-Fluorobiphenyl
 Concen: 0.357 ng
 RT: 12.807 min Scan# 1361
 Delta R.T. -0.000 min
 Lab File: BN035069.D
 Acq: 13 Nov 2024 16:51

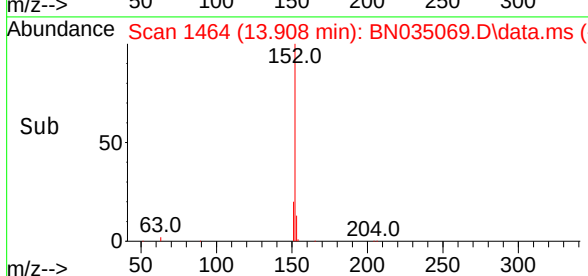
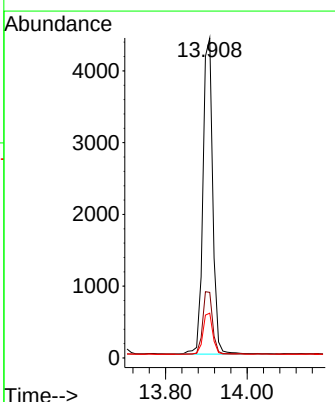
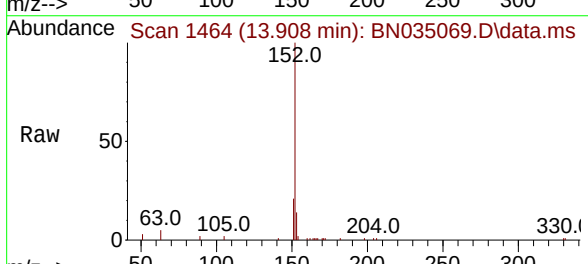
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN111324

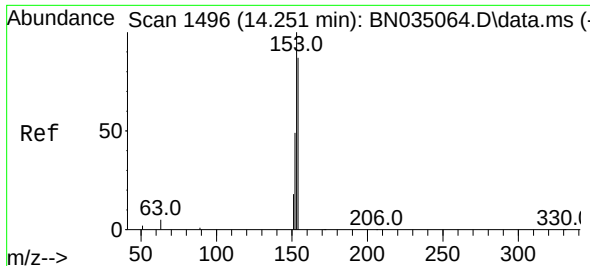
Tgt Ion:	172	Resp:	7205
Ion Ratio	Lower	Upper	
172	100		
171	36.1	28.2	42.4
170	23.9	19.0	28.6



#16
 Acenaphthylene
 Concen: 0.348 ng
 RT: 13.908 min Scan# 1464
 Delta R.T. -0.000 min
 Lab File: BN035069.D
 Acq: 13 Nov 2024 16:51

Tgt Ion:	152	Resp:	7387
Ion Ratio	Lower	Upper	
152	100		
151	20.0	15.8	23.8
153	13.0	10.2	15.4

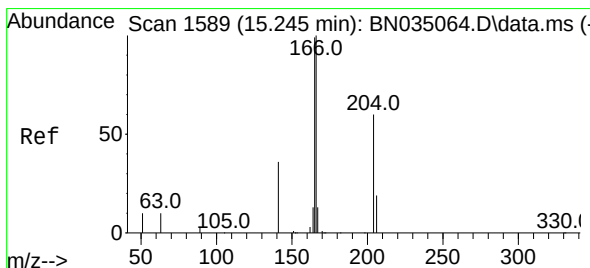
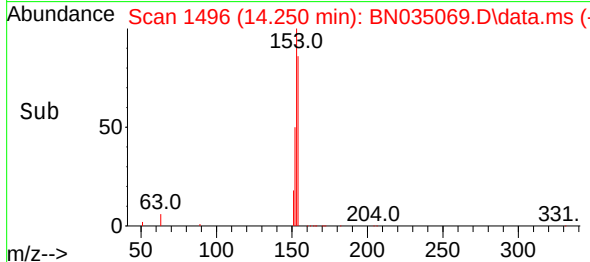
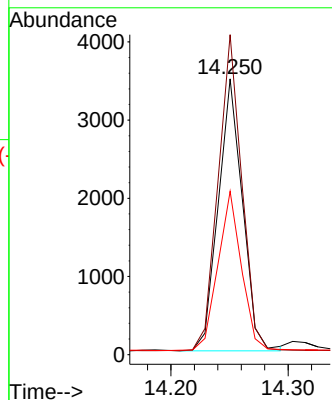
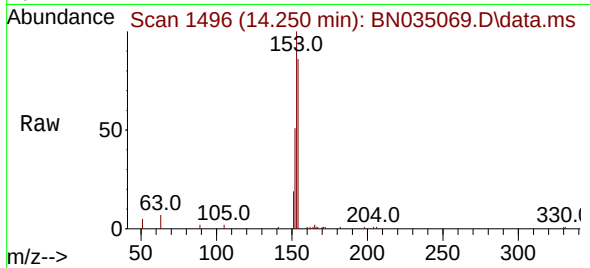




#17
Acenaphthene
Concen: 0.359 ng
RT: 14.250 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

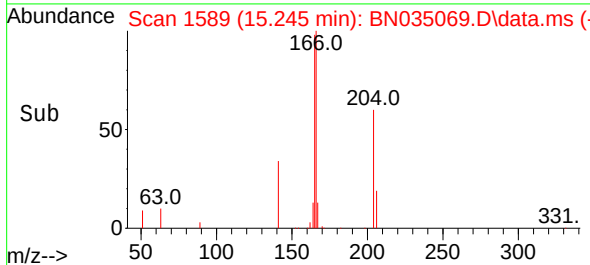
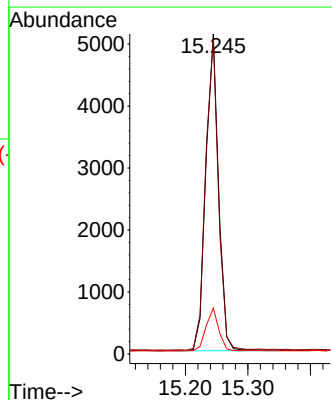
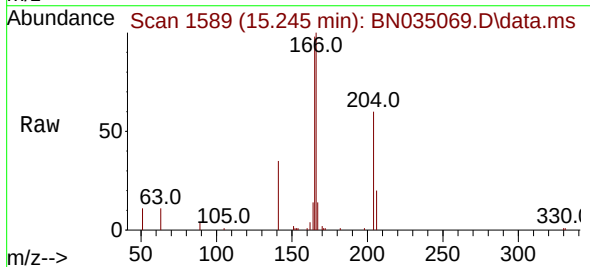
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

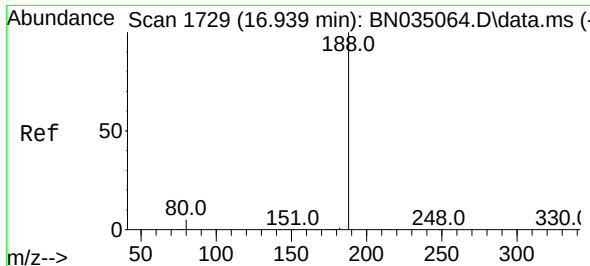
Tgt Ion:154 Resp: 4995
Ion Ratio Lower Upper
154 100
153 113.2 91.6 137.4
152 57.7 45.8 68.6



#18
Fluorene
Concen: 0.352 ng
RT: 15.245 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:166 Resp: 7206
Ion Ratio Lower Upper
166 100
165 99.0 79.1 118.7
167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.939 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

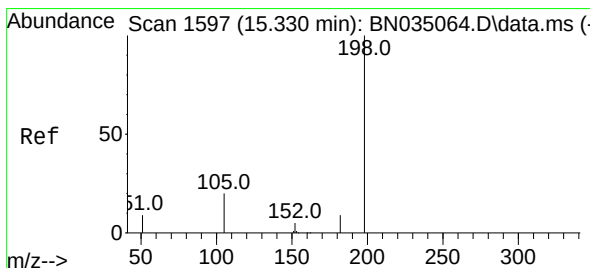
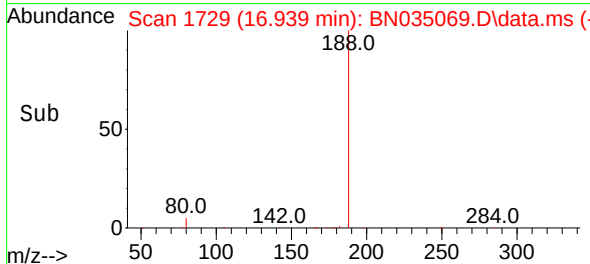
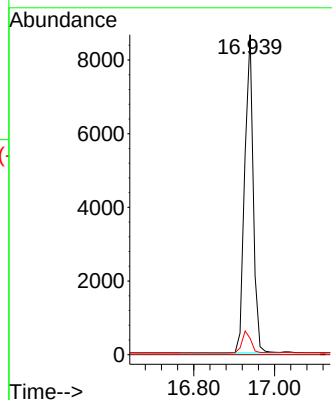
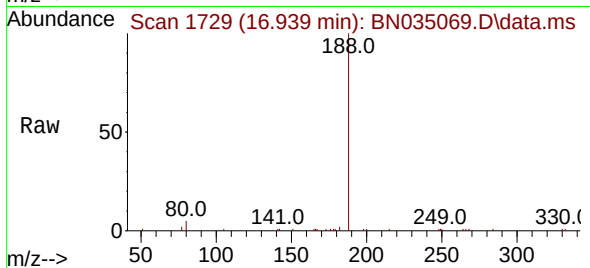
Tgt Ion:188 Resp: 12682

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.1 4.3 6.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.314 ng

RT: 15.330 min Scan# 1597

Delta R.T. 0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

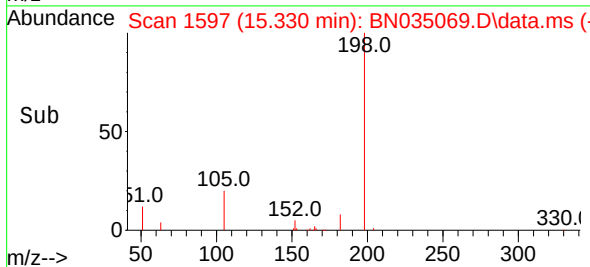
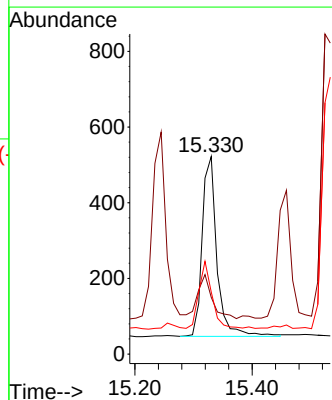
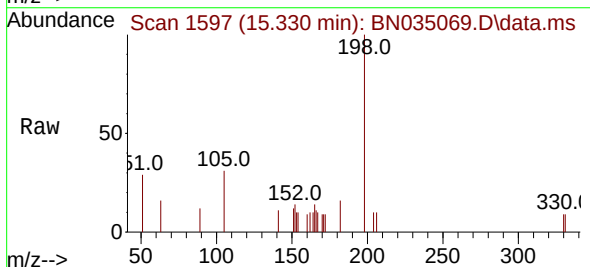
Tgt Ion:198 Resp: 830

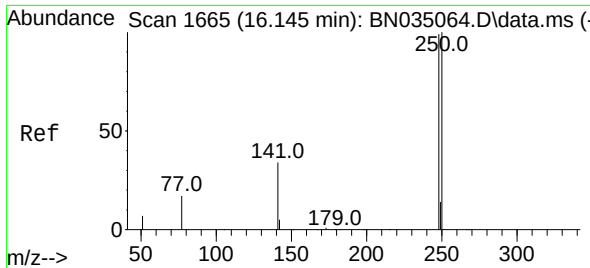
Ion Ratio Lower Upper

198 100

51 28.7 29.9 44.9#

105 31.4 23.7 35.5

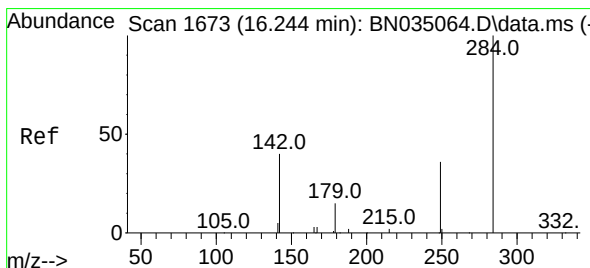
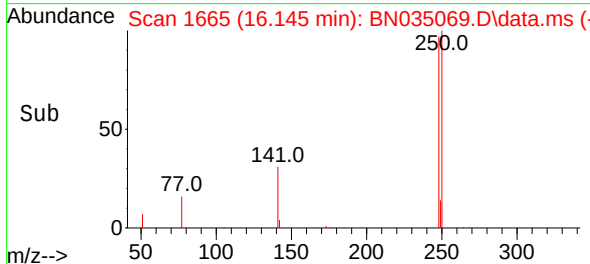
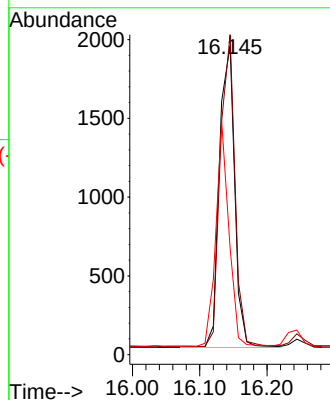
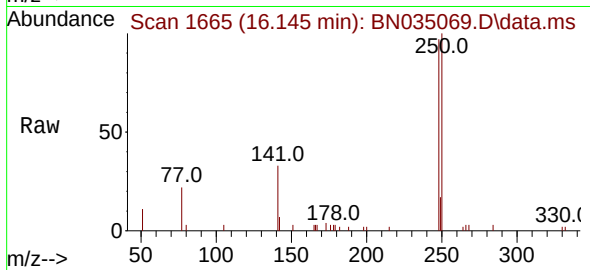




#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 16.145 min Scan# 1665
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

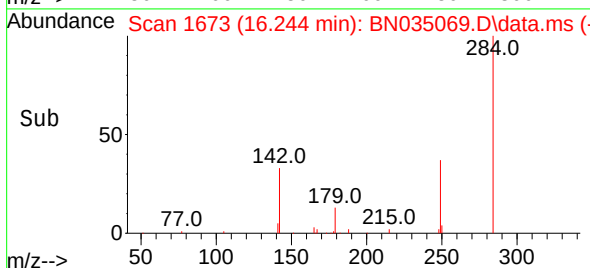
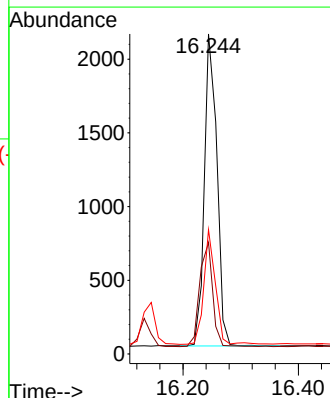
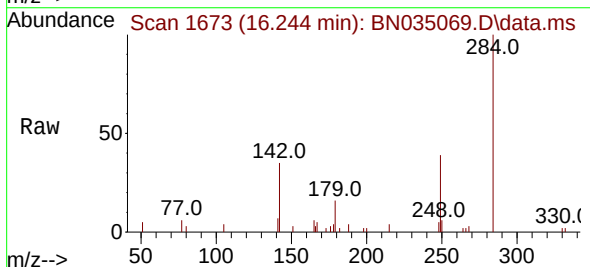
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

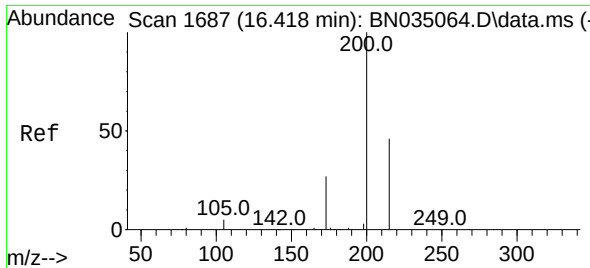
Tgt Ion:	248	Resp:	3001
Ion	Ratio	Lower	Upper
248	100		
250	103.6	81.2	121.8
141	34.5	29.1	43.7



#22
Hexachlorobenzene
Concen: 0.379 ng
RT: 16.244 min Scan# 1673
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:	284	Resp:	3175
Ion	Ratio	Lower	Upper
284	100		
142	34.7	28.2	42.4
249	33.7	26.2	39.2

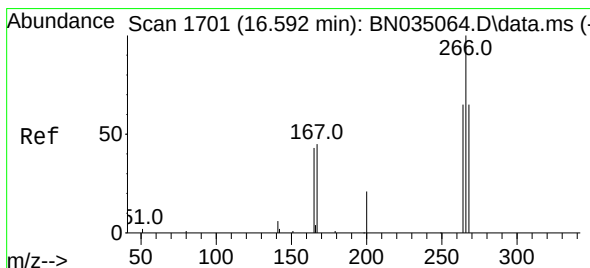
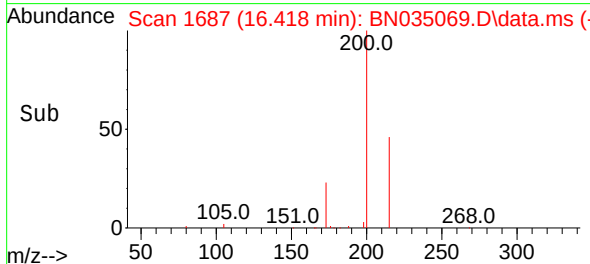
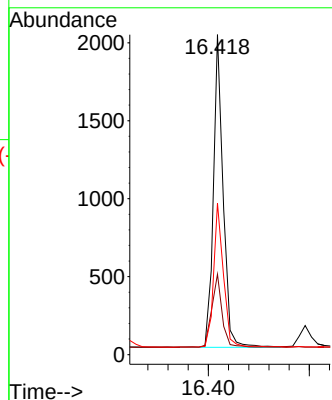
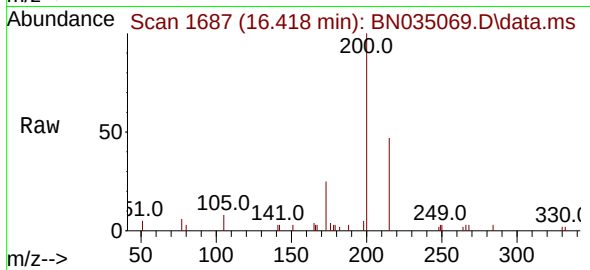




#23
Atrazine
Concen: 0.370 ng
RT: 16.418 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

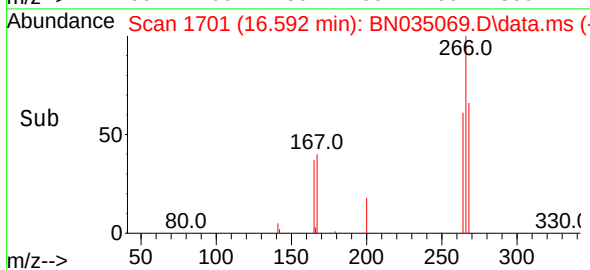
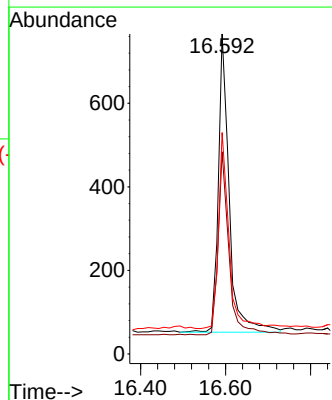
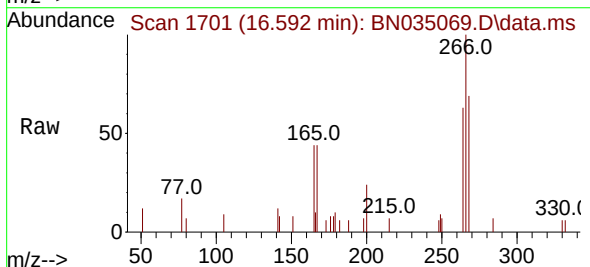
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

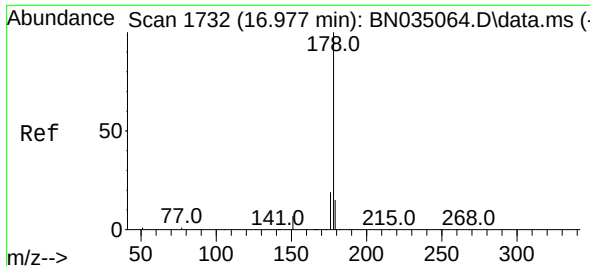
Tgt Ion:	200	Resp:	2682
Ion Ratio	Lower	Upper	
200	100		
173	25.1	22.6	33.8
215	47.3	37.8	56.6



#24
Pentachlorophenol
Concen: 0.324 ng
RT: 16.592 min Scan# 1701
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:	266	Resp:	1269
Ion Ratio	Lower	Upper	
266	100		
264	60.5	49.4	74.0
268	63.4	52.6	79.0

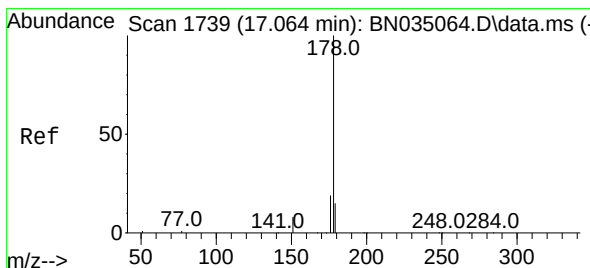
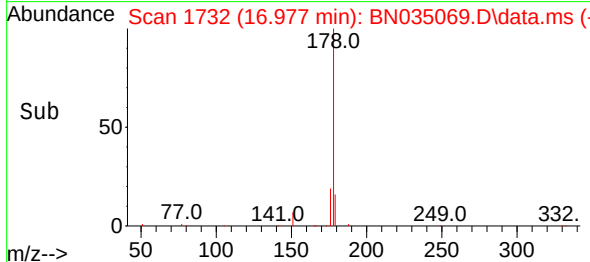
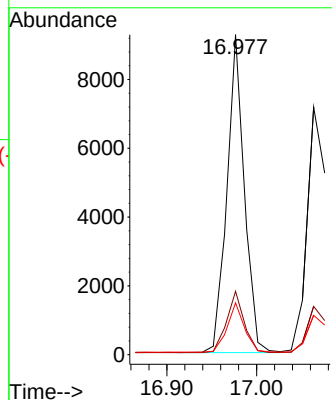
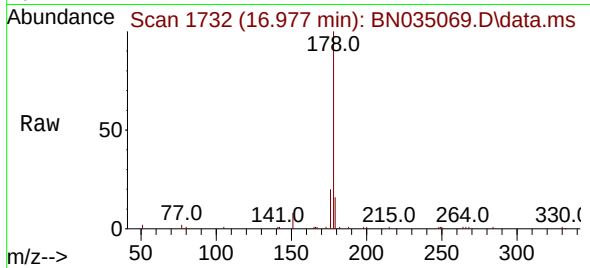




#25
Phenanthrene
Concen: 0.375 ng
RT: 16.977 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

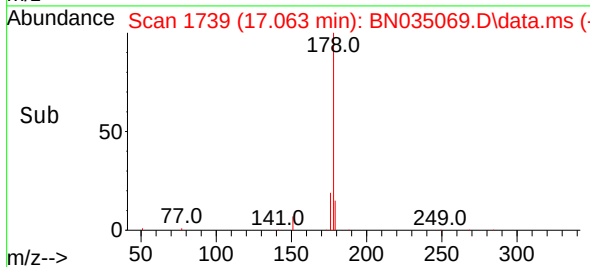
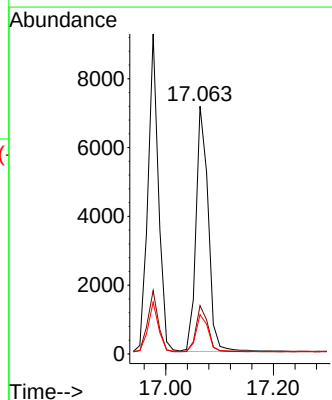
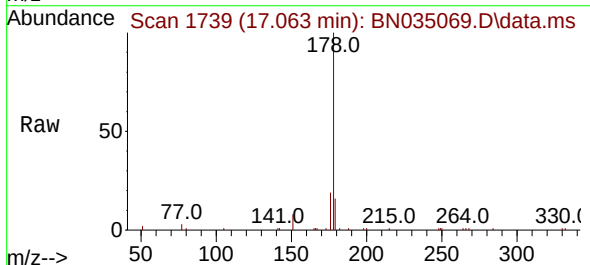
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

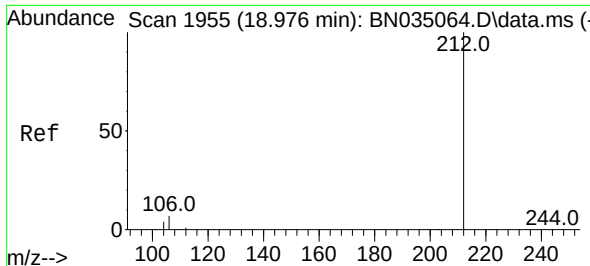
Tgt Ion:178 Resp: 12517
Ion Ratio Lower Upper
178 100
176 19.5 15.2 22.8
179 15.6 12.6 18.8



#26
Anthracene
Concen: 0.366 ng
RT: 17.063 min Scan# 1739
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:178 Resp: 11219
Ion Ratio Lower Upper
178 100
176 18.6 14.6 22.0
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.374 ng

RT: 18.976 min Scan# 1955

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

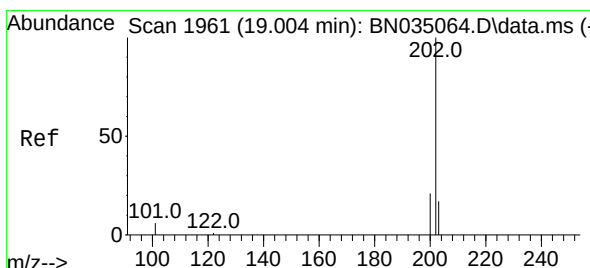
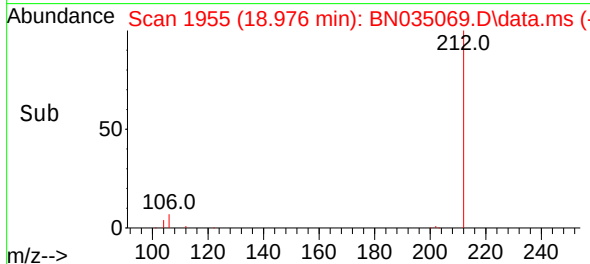
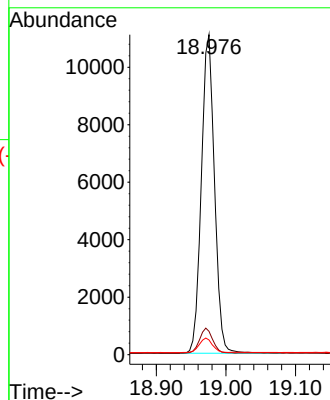
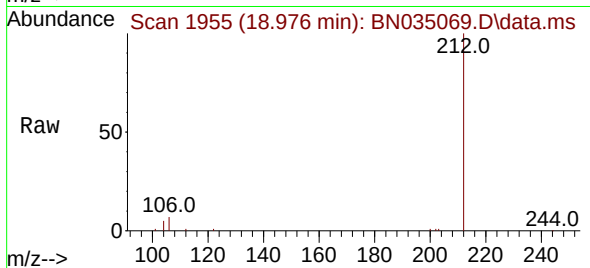
Tgt Ion:212 Resp: 14530

Ion Ratio Lower Upper

212 100

106 7.8 6.0 9.0

104 4.5 3.5 5.3



#28

Fluoranthene

Concen: 0.372 ng

RT: 19.004 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

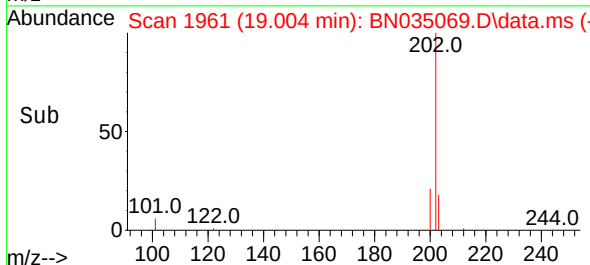
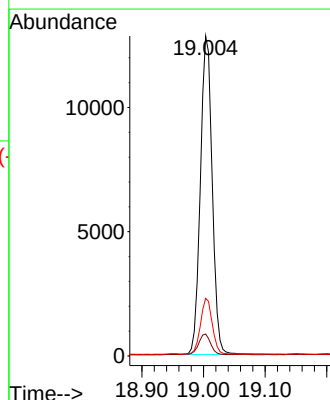
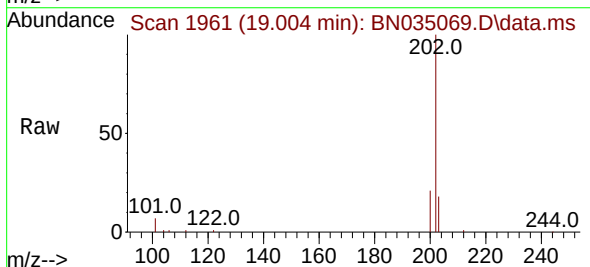
Tgt Ion:202 Resp: 17084

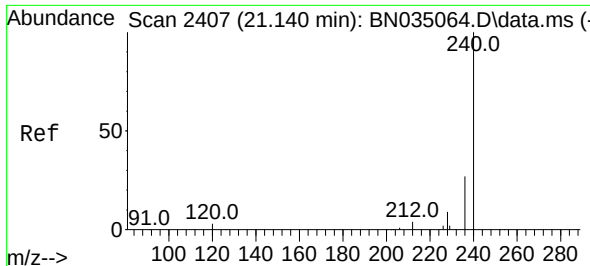
Ion Ratio Lower Upper

202 100

101 6.6 5.2 7.8

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.140 min Scan# 2407

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

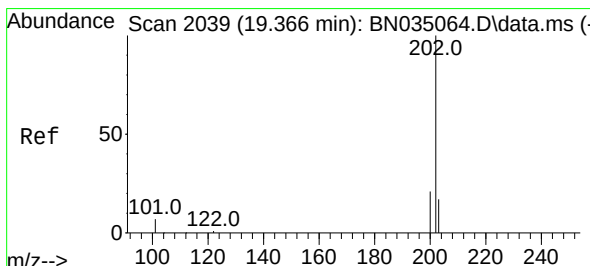
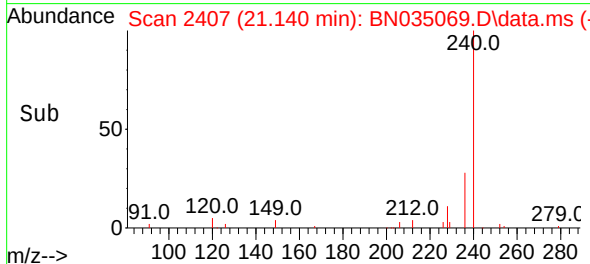
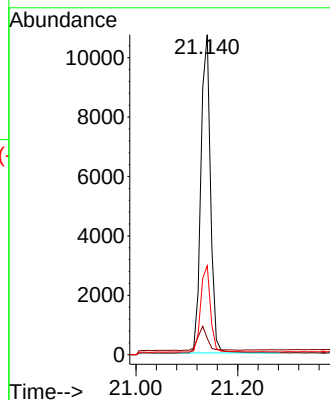
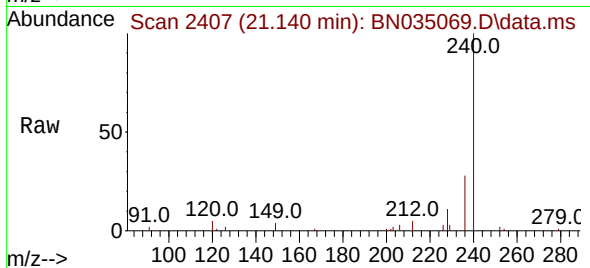
Tgt Ion:240 Resp: 14055

Ion Ratio Lower Upper

240 100

120 5.1 3.8 5.6

236 27.8 22.2 33.2



#30

Pyrene

Concen: 0.376 ng

RT: 19.366 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

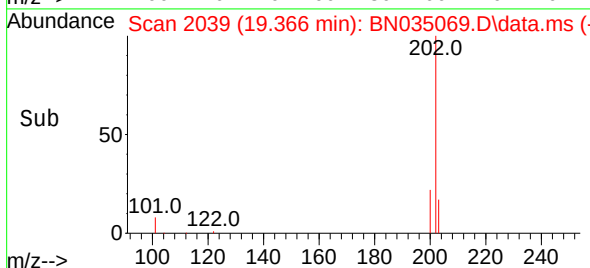
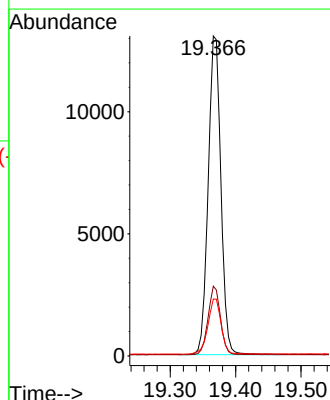
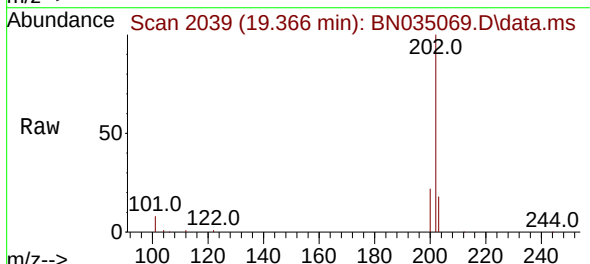
Tgt Ion:202 Resp: 17580

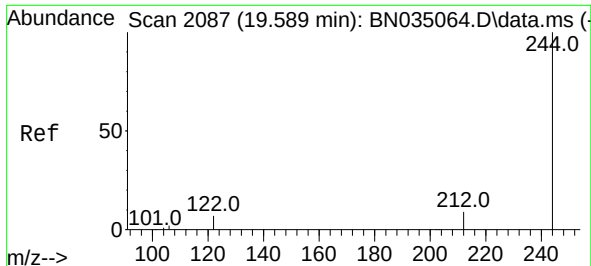
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 18.1 14.2 21.4

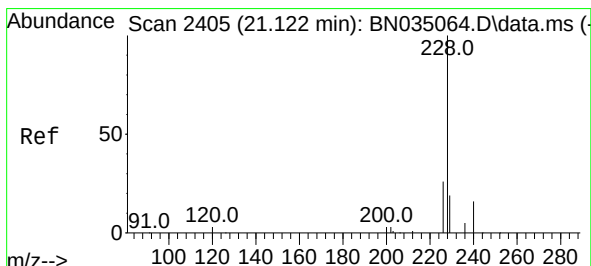
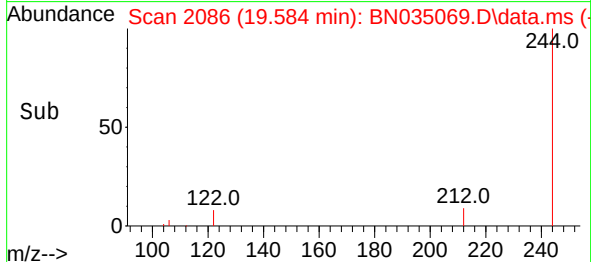
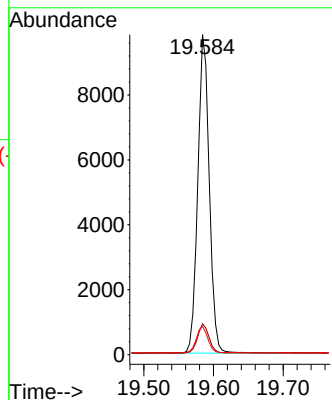
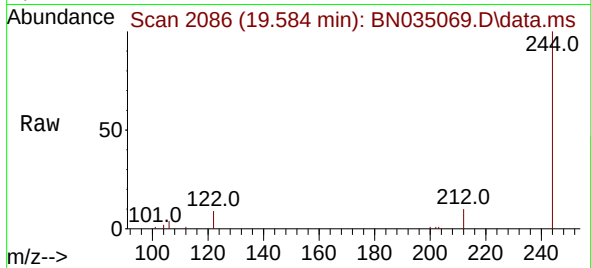




#31
 Terphenyl-d14
 Concen: 0.381 ng
 RT: 19.584 min Scan# 2086
 Delta R.T. -0.005 min
 Lab File: BN035069.D
 Acq: 13 Nov 2024 16:51

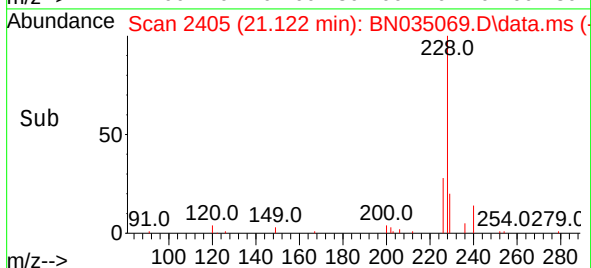
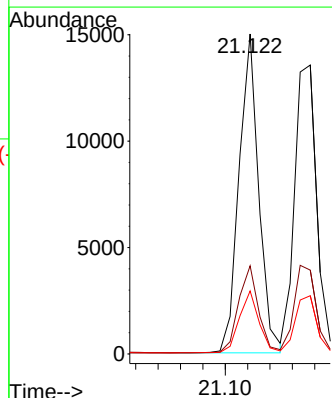
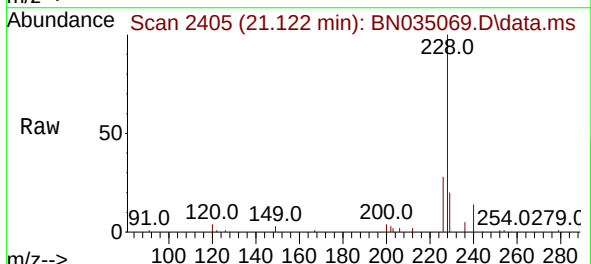
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN111324

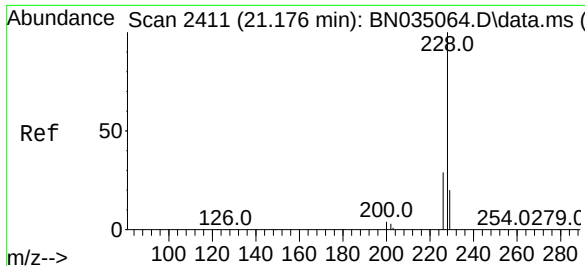
Tgt Ion:244 Resp: 11240
 Ion Ratio Lower Upper
 244 100
 212 9.6 7.6 11.4
 122 8.9 6.1 9.1



#32
 Benzo(a)anthracene
 Concen: 0.376 ng
 RT: 21.122 min Scan# 2405
 Delta R.T. -0.000 min
 Lab File: BN035069.D
 Acq: 13 Nov 2024 16:51

Tgt Ion:228 Resp: 18406
 Ion Ratio Lower Upper
 228 100
 226 27.6 21.4 32.0
 229 19.7 15.7 23.5

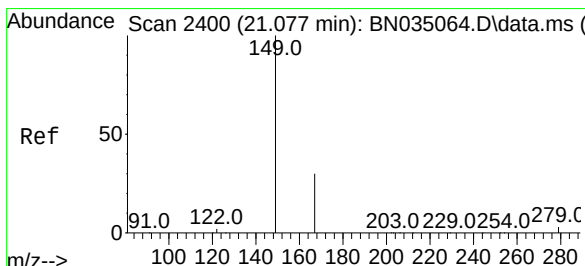
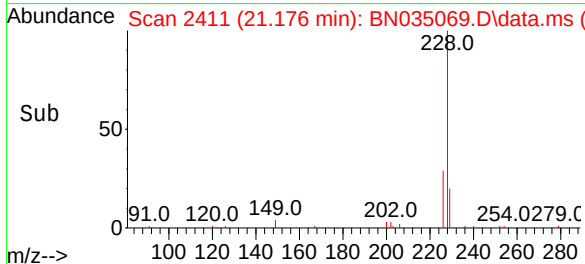
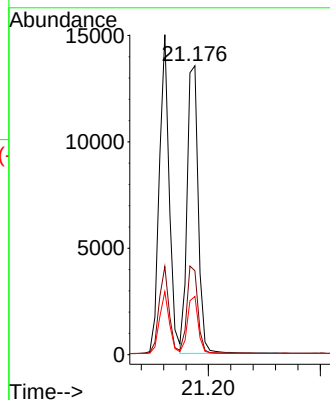
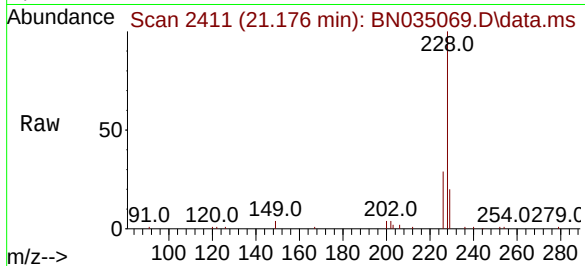




#33
Chrysene
Concen: 0.386 ng
RT: 21.176 min Scan# 2411
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

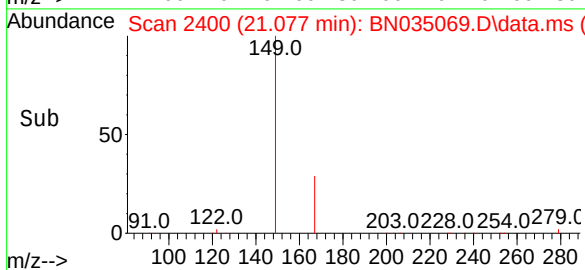
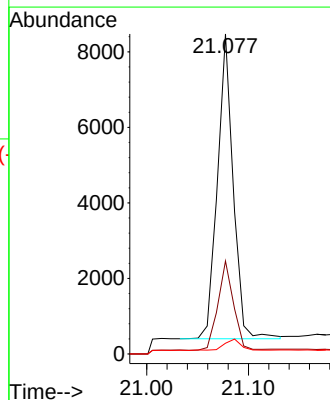
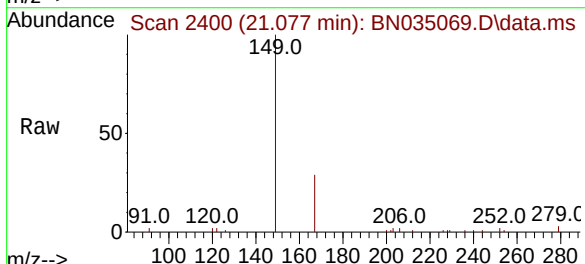
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

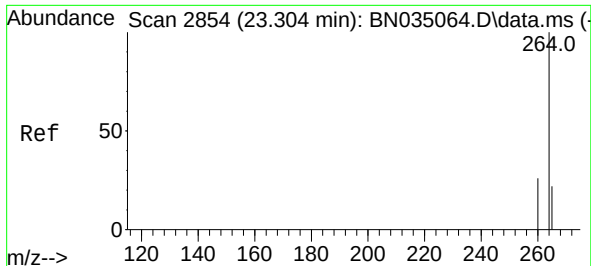
Tgt Ion:228 Resp: 18693
Ion Ratio Lower Upper
228 100
226 29.0 23.7 35.5
229 20.2 16.2 24.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.338 ng
RT: 21.077 min Scan# 2400
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:149 Resp: 8691
Ion Ratio Lower Upper
149 100
167 29.0 23.2 34.8
279 3.9 3.2 4.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.304 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

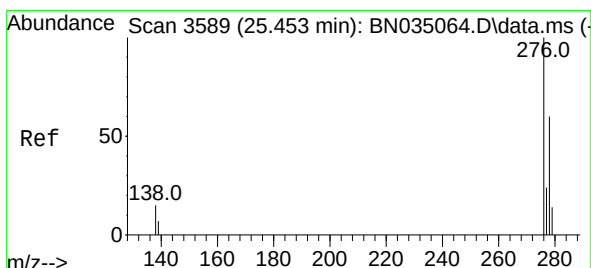
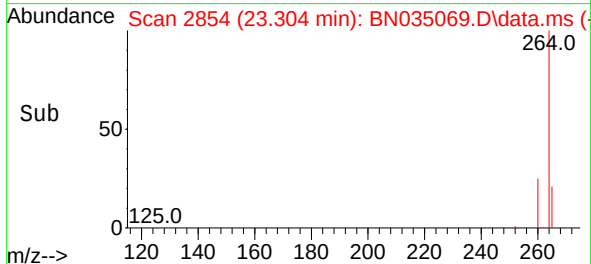
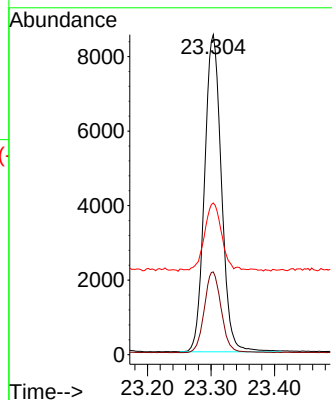
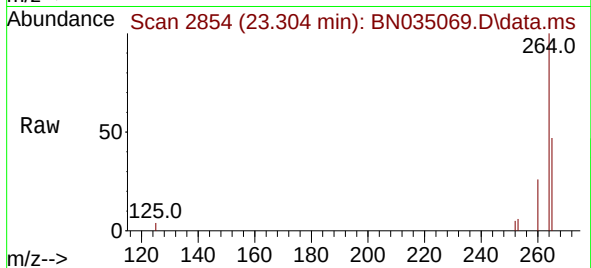
Tgt Ion:264 Resp: 15724

Ion Ratio Lower Upper

264 100

260 25.8 20.9 31.3

265 47.4 35.4 53.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.375 ng

RT: 25.450 min Scan# 3588

Delta R.T. -0.003 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

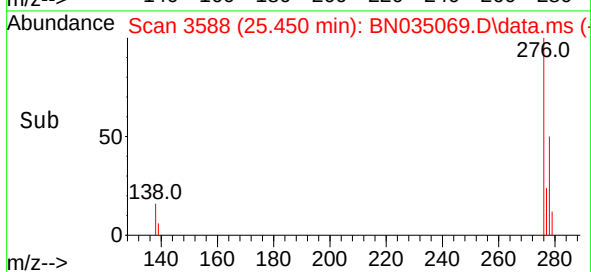
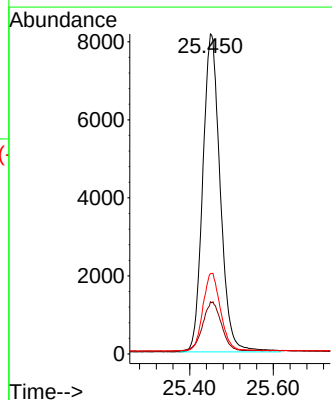
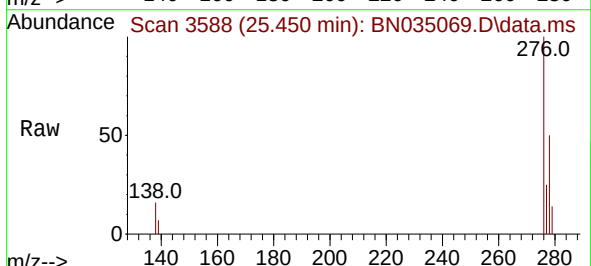
Tgt Ion:276 Resp: 23546

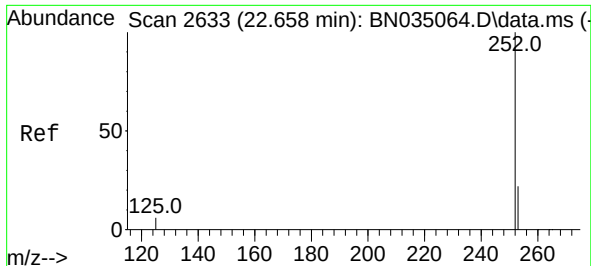
Ion Ratio Lower Upper

276 100

138 16.9 13.0 19.4

277 24.2 19.8 29.6

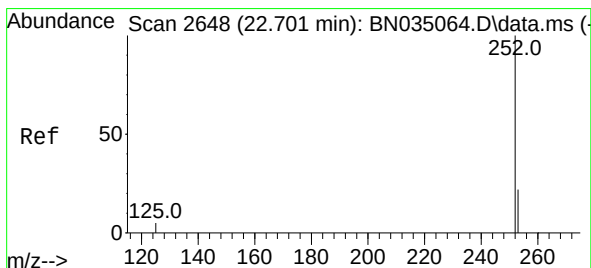
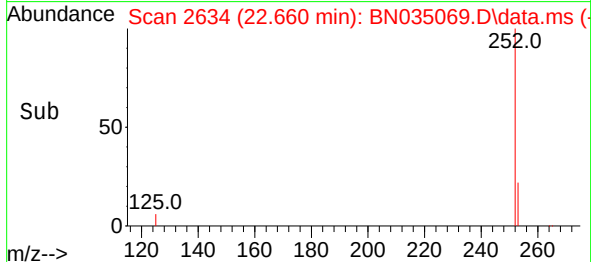
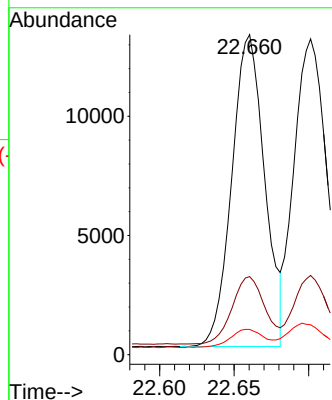
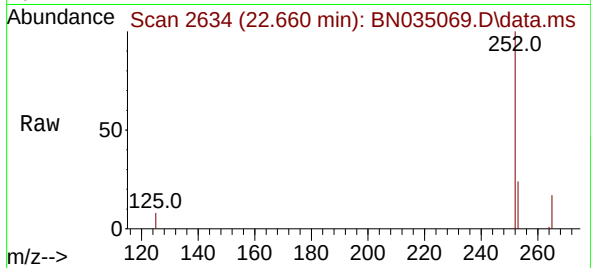




#37
Benzo(b)fluoranthene
Concen: 0.379 ng
RT: 22.660 min Scan# 2633
Delta R.T. 0.003 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

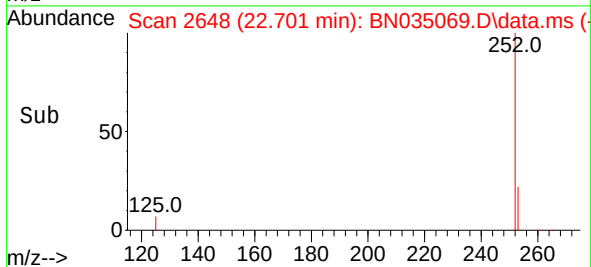
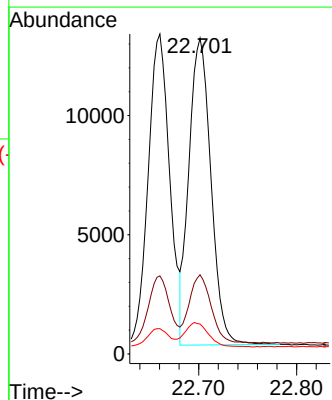
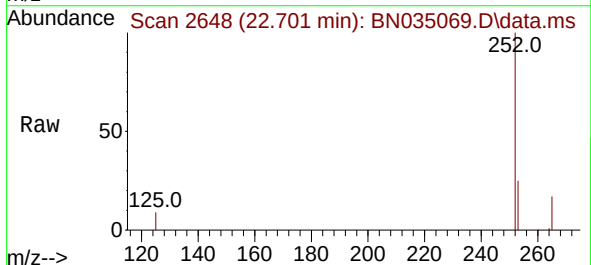
Instrument :
BNA_N
ClientSampleId :
ICVBN111324

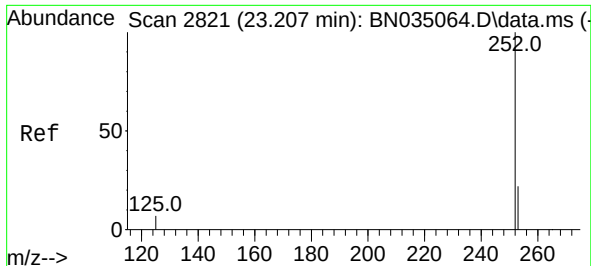
Tgt Ion:252 Resp: 20039
Ion Ratio Lower Upper
252 100
253 24.4 19.3 28.9
125 7.9 6.2 9.2



#38
Benzo(k)fluoranthene
Concen: 0.380 ng
RT: 22.701 min Scan# 2648
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Tgt Ion:252 Resp: 20114
Ion Ratio Lower Upper
252 100
253 25.1 19.5 29.3
125 9.5 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.378 ng

RT: 23.210 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

Instrument :

BNA_N

ClientSampleId :

ICVBN111324

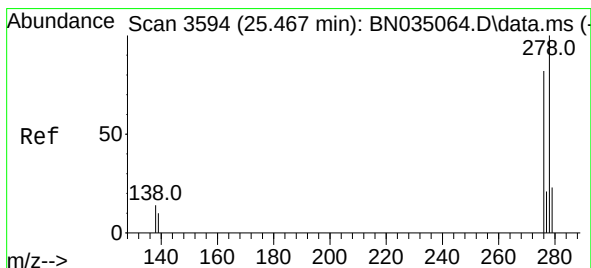
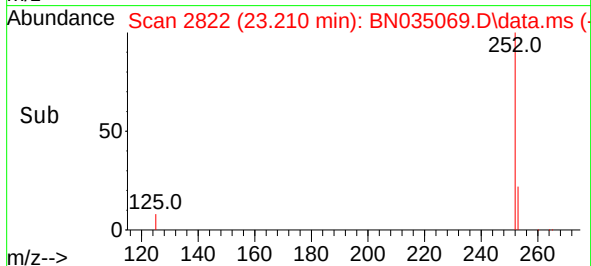
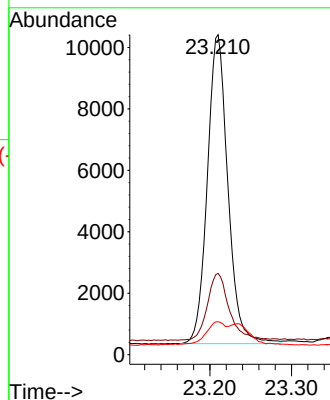
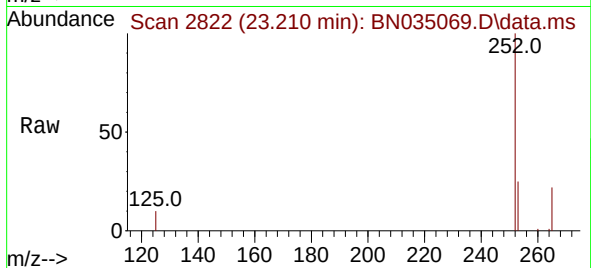
Tgt Ion:252 Resp: 17596

Ion Ratio Lower Upper

252 100

253 25.4 20.1 30.1

125 10.3 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.373 ng

RT: 25.467 min Scan# 3594

Delta R.T. -0.000 min

Lab File: BN035069.D

Acq: 13 Nov 2024 16:51

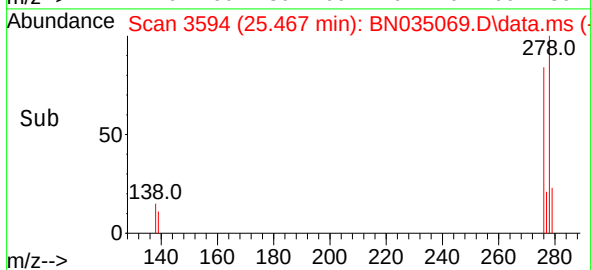
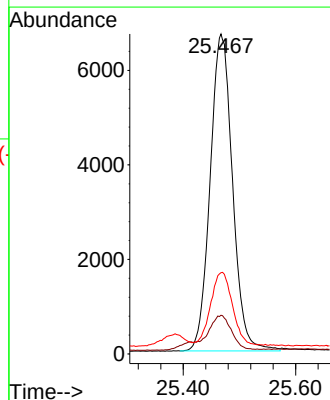
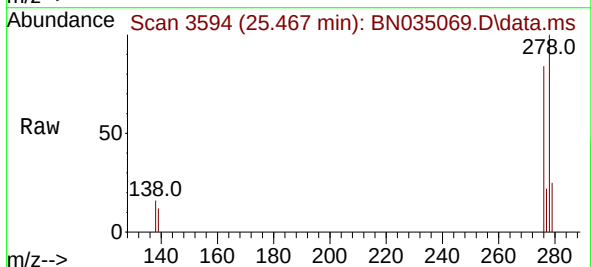
Tgt Ion:278 Resp: 18547

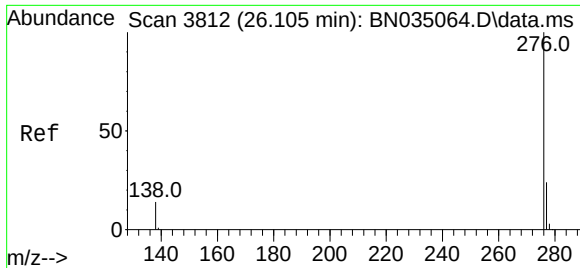
Ion Ratio Lower Upper

278 100

139 12.1 9.3 13.9

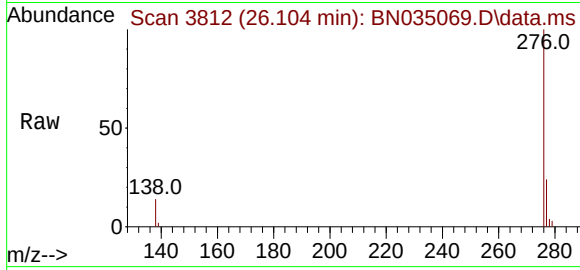
279 25.4 19.7 29.5





#41
Benzo(g,h,i)perylene
Concen: 0.372 ng
RT: 26.104 min Scan# 3812
Delta R.T. -0.000 min
Lab File: BN035069.D
Acq: 13 Nov 2024 16:51

Instrument :
BNA_N
ClientSampleId :
ICVBN111324



Tgt Ion:	276	Resp:	19649
Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.9	29.9
138	14.3	11.6	17.4

