

**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 : P4710
ATTENTION : Ernie Wu**



Laboratory Certification ID # 20012



1) SEMI-VOLATILE DATA	2
2) Signature Page	4
3) Case Narrative	5
4) Qualifier Page	7
5) Conformance/Non Conformance	8
6) QA Checklist	10
7) Chronicle	11
8) Hit Summary	12
9) QC Data Summary For SVOC-SIMGroup1	13
9.1) Deuterated Monitoring Compound Summary	14
9.2) LCS/LCSD Summary	15
9.3) Method Blank Summary	17
9.4) GS/MS Tune Summary	18
9.5) Internal Standard Area and RT Summary	20
10) Sample Data	22
10.0.1) BP-BPOW6-7-GW-20241030	23
10.0.2) BP-BPOW6-11-GW-20241031	34
10.0.3) BP-BPOW6-8-GW-20241101	45
11) Calibration Data Summary	56
11.1) Initial Calibration Data	57
11.1.1) BN110724	57
11.2) Continued Calibration Data	250
11.2.1) BN034898.D	250
11.2.2) BN034911.D	276
12) QC Sample Data	302
12.1) Tune Raw Data	303
12.2) Method Blank Data	311
12.3) LCS Data	321
12.4) LCSD Data	345
13) Manual Integration	369
14) Analytical Runlogs	371
15) Extraction Logs	375
15.1) PB164705.pdf	375
15.2) PB164705IC.pdf	377

Table Of Contents for P4710

17) Shipping Document	440
17.1) Chain Of Custody	441
17.2) Lab Certificate	442
17.3) Internal COC	443
18) Not Reviewed Data	444

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

Cover Page

Order ID : P4710

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P4710-01
P4710-02
P4710-03
P4710-04

Client Sample Number

BP-TB-20241030
BP-BPOW6-7-GW-20241030
BP-BPOW6-11-GW-20241031
BP-BPOW6-8-GW-20241101

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

Signature : _____

Date: 11/14/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager : Ernie Wu

Chemtech Project # P4710

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

4 Water samples were received on 11/04/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. 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 met requirements for all samples .

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

The % RSD is greater than 20% in the Initial Calibration (8270Sim-BN110724.M) for 2,4,6-Tribromophenol is passing on Quadratic regression.

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

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

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



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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_____

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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: P4710

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 % RSD is greater than 20% in the Initial Calibration (8270Sim-BN110724.M) for 2,4,6-Tribromophenol is passing on Quadratic regression. The Continuous Calibration met the requirements .			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓

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:

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.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4710

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 11/14/2024

LAB CHRONICLE

OrderID:	P4710	OrderDate:	11/4/2024 3:44:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	L31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4710-02	BP-BPOW6-7-GW-202 41030	Water			10/30/24			11/04/24
			SVOC-SIMGroup1	8270-Modified		11/06/24	11/08/24	
P4710-03	BP-BPOW6-11-GW-20 241031	Water			10/31/24			11/04/24
			SVOC-SIMGroup1	8270-Modified		11/06/24	11/08/24	
P4710-04	BP-BPOW6-8-GW-202 41101	Water			11/01/24			11/04/24
			SVOC-SIMGroup1	8270-Modified		11/06/24	11/08/24	



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Hit Summary Sheet SW-846

SDG No.: P4710
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :				0.000					
Total Svoc :					0.00				
Total Concentration:					0.00				



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P4710

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4710-02	BP-BPOW6-7-GW-20241030	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.38	96		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.46	114		58	132
P4710-03	BP-BPOW6-11-GW-20241031	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.42	104		58	132
P4710-04	BP-BPOW6-8-GW-20241101	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.39	96		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.44	111		58	132
PB164705BL	PB164705BL	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.47	117		58	132
PB164705BS	PB164705BS	2-Methylnaphthalene-d10	0.4	0.40	100		30	150
		Fluoranthene-d10	0.4	0.33	81		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
PB164705BSD	PB164705BSD	2-Methylnaphthalene-d10	0.4	0.39	98		30	150
		Fluoranthene-d10	0.4	0.33	82		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.38	95		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4710

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN034908.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB164705BS	1,4-Dioxane	0.4	0.29	ug/L	73				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4710

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN034909.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB164705BSD	1,4-Dioxane	0.4	0.28	ug/L	70	4			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164705BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P4710

SAS No.: P4710 SDG NO.: P4710

Lab File ID: BN034910.D

Lab Sample ID: PB164705BL

Instrument ID: BNA_N

Date Extracted: 11/06/2024

Matrix: (soil/water) Water

Date Analyzed: 11/08/2024

Level: (low/med) LOW

Time Analyzed: 16:05

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BP-BPOW6-7-GW-20241030	P4710-02	BN034905.D	11/08/2024
BP-BPOW6-11-GW-20241031	P4710-03	BN034906.D	11/08/2024
BP-BPOW6-8-GW-20241101	P4710-04	BN034907.D	11/08/2024
PB164705BS	PB164705BS	BN034908.D	11/08/2024
PB164705BSD	PB164705BSD	BN034909.D	11/08/2024

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4710 SDG NO.: P4710Lab File ID: BN034883.DDFTPP Injection Date: 11/07/2024Instrument ID: BNA_NDFTPP Injection Time: 08:39

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	64.6
68	Less than 2.0% of mass 69	0.9 (1.6) 1
69	Mass 69 relative abundance	57.5
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	64.5
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	19.4
365	Greater than 1% of mass 198	2.3
441	Present, but less than mass 443	6.6
442	Greater than 50% of mass 198	37.1
443	15.0 - 24.0% of mass 442	8.9 (24) 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	BN034885.D	11/07/2024	10:02
SSTDICC0.2	SSTDICC0.2	BN034886.D	11/07/2024	10:48
SSTDICCC0.4	SSTDICCC0.4	BN034887.D	11/07/2024	11:24
SSTDICC0.8	SSTDICC0.8	BN034888.D	11/07/2024	12:00
SSTDICC1.6	SSTDICC1.6	BN034889.D	11/07/2024	12:36
SSTDICC3.2	SSTDICC3.2	BN034890.D	11/07/2024	13:13
SSTDICC5.0	SSTDICC5.0	BN034891.D	11/07/2024	13:49



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4710 SDG NO.: P4710Lab File ID: BN034897.DDFTPP Injection Date: 11/08/2024Instrument ID: BNA_NDFTPP Injection Time: 07:50

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	65.5
68	Less than 2.0% of mass 69	0.9 (1.6) 1
69	Mass 69 relative abundance	56.3
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	63.8
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	20.3
365	Greater than 1% of mass 198	2.3
441	Present, but less than mass 443	7
442	Greater than 50% of mass 198	43.5
443	15.0 - 24.0% of mass 442	8.1 (18.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN034898.D	11/08/2024	08:29
BP-BPOW6-7-GW-20241030	P4710-02	BN034905.D	11/08/2024	13:05
BP-BPOW6-11-GW-20241031	P4710-03	BN034906.D	11/08/2024	13:41
BP-BPOW6-8-GW-20241101	P4710-04	BN034907.D	11/08/2024	14:17
PB164705BS	PB164705BS	BN034908.D	11/08/2024	14:53
PB164705BSD	PB164705BSD	BN034909.D	11/08/2024	15:29
PB164705BL	PB164705BL	BN034910.D	11/08/2024	16:05
SSTDCCC0.4EC	SSTDCCC0.4	BN034911.D	11/08/2024	16:41

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4710 SAS No.: P4710 SDG NO.: P4710

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/08/2024

Lab File ID: BN034898.D Time Analyzed: 08:29

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	6102	7.575	18171	10.34	8711	14.20
UPPER LIMIT	12204	8.075	36342	10.84	17422	14.701
LOWER LIMIT	3051	7.075	9085.5	9.84	4355.5	13.701
EPA SAMPLE NO.						
01 BP-BPOW6-8-GW-20241101	5705	7.58	16698	10.34	7609	14.21
02 PB164705BL	6271	7.58	17552	10.34	7420	14.20
03 PB164705BS	6394	7.58	18264	10.34	8109	14.21
04 PB164705BSD	6255	7.58	17867	10.34	7947	14.21
05 BP-BPOW6-7-GW-20241030	5186	7.58	15083	10.34	6739	14.20
06 BP-BPOW6-11-GW-20241031	5457	7.58	15845	10.34	7293	14.21

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.: P4710 SAS No.: P4710 SDG NO.: P4710

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/08/2024

Lab File ID: BN034898.D Time Analyzed: 08:29

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	17291	16.957	11255	21.143	9481	23.315
UPPER LIMIT	34582	17.457	22510	21.643	18962	23.815
LOWER LIMIT	8645.5	16.457	5627.5	20.643	4740.5	22.815
EPA SAMPLE NO.						
01 BP-BPOW6-8-GW-20241101	15639	16.95	9493	21.15	7807	23.32
02 PB164705BL	15255	16.96	8049	21.15	6373	23.32
03 PB164705BS	16416	16.95	9189	21.15	6982	23.32
04 PB164705BSD	15963	16.95	9019	21.15	6770	23.32
05 BP-BPOW6-7-GW-20241030	13647	16.96	8571	21.15	6880	23.32
06 BP-BPOW6-11-GW-20241031	14785	16.95	9375	21.15	7760	23.32

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

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Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	10/30/24	
Project:	CTO WE13		Date Received:	11/04/24	
Client Sample ID:	BP-BPOW6-7-GW-20241030		SDG No.:	P4710	
Lab Sample ID:	P4710-02		Matrix:	Water	
Analytical Method:	SW8270SIM		% Solid:	0	
Sample Wt/Vol:	980	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
BN034905.D	1	11/06/24 08:45	11/08/24 13:05	PB164705

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	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		96%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	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	5190	7.575				
1146-65-2	Naphthalene-d8	15100	10.34				
15067-26-2	Acenaphthene-d10	6740	14.201				
1517-22-2	Phenanthrene-d10	13600	16.957				
1719-03-5	Chrysene-d12	8570	21.152				
1520-96-3	Perylene-d12	6880	23.321				

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\BN110824\
Data File : BN034905.D
Acq On : 08 Nov 2024 13:05
Operator : RC/JU
Sample : P4710-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-7-GW-20241030

Quant Time: Nov 08 13:55:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 2024
Response via : Initial Calibration

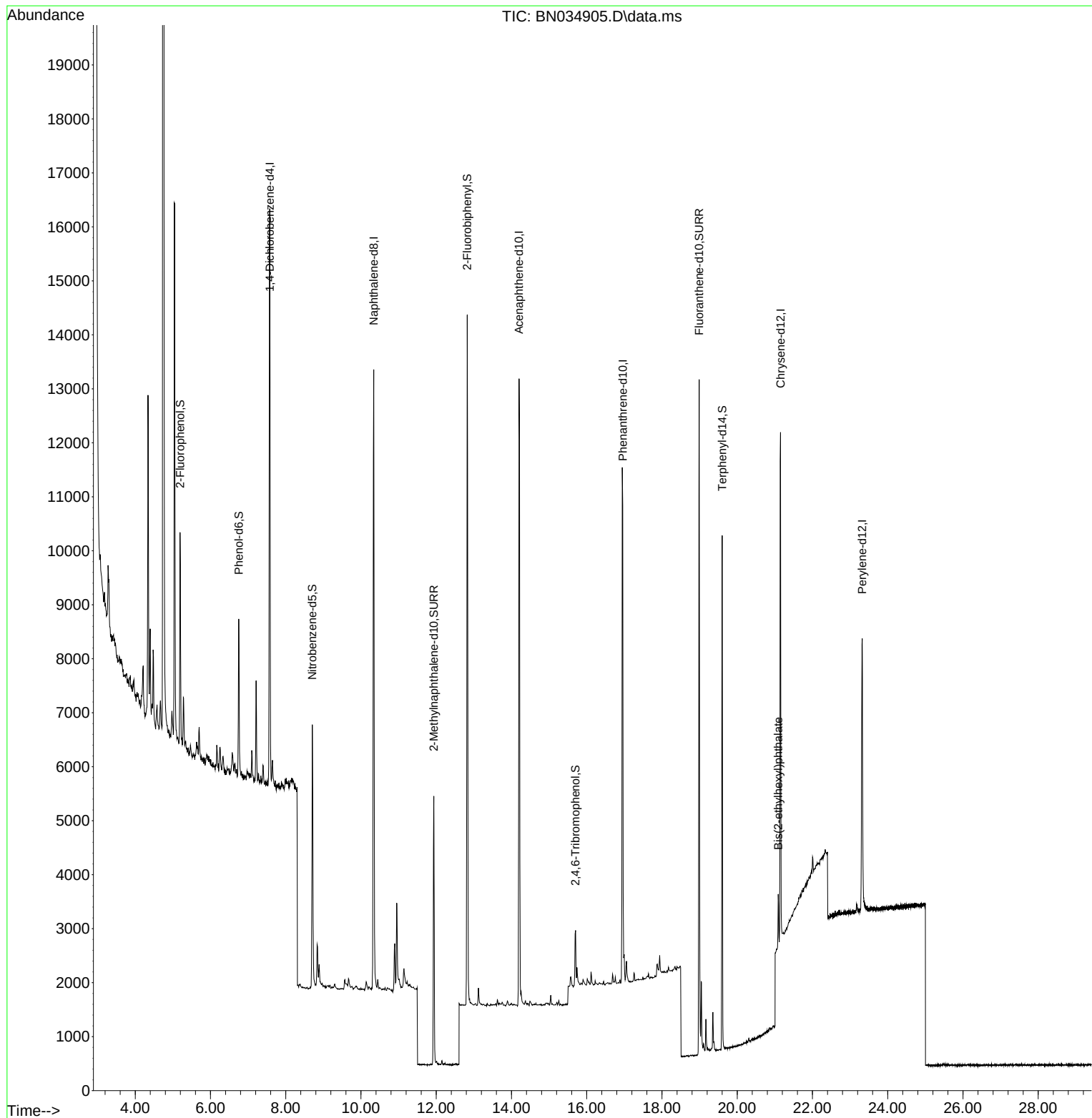
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	5186	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	15083	0.400	ng	0.00
13) Acenaphthene-d10	14.201	164	6739	0.400	ng	-0.01
19) Phenanthrene-d10	16.957	188	13647	0.400	ng	0.00
29) Chrysene-d12	21.152	240	8571	0.400	ng	0.00
35) Perylene-d12	23.321	264	6880	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.192	112	2949	0.204	ng	0.00
5) Phenol-d6	6.752	99	2560	0.133	ng	0.00
8) Nitrobenzene-d5	8.707	82	3987	0.339	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	6649	0.323	ng	0.00
14) 2,4,6-Tribromophenol	15.704	330	596	0.342	ng	0.00
15) 2-Fluorobiphenyl	12.822	172	11127	0.391	ng	-0.01
27) Fluoranthene-d10	18.987	212	11799	0.383	ng	0.00
31) Terphenyl-d14	19.601	244	7348	0.458	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.089	149	1125	0.059	ng	Qvalue # 96

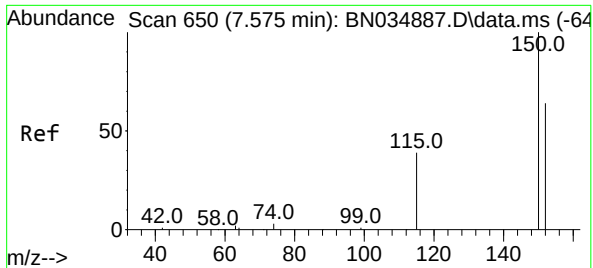
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
Data File : BN034905.D
Acq On : 08 Nov 2024 13:05
Operator : RC/JU
Sample : P4710-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-7-GW-20241030

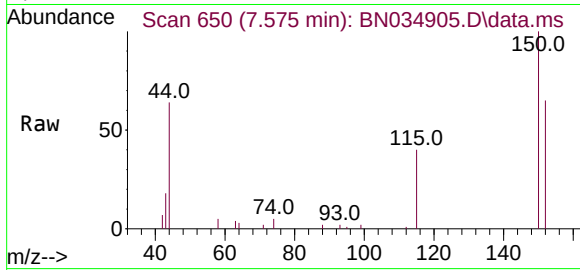
Quant Time: Nov 08 13:55:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 2024
Response via : Initial Calibration



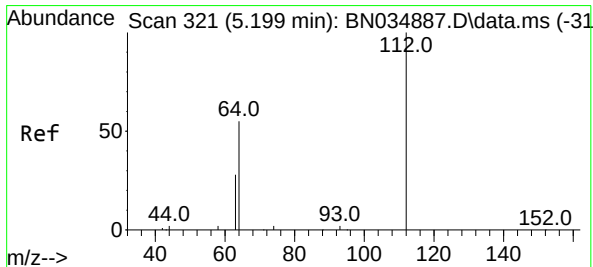
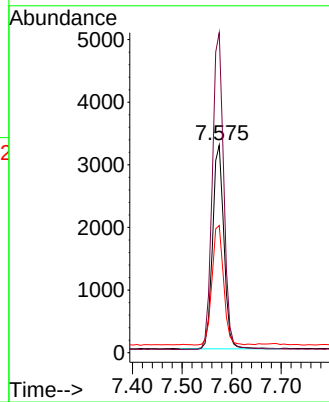
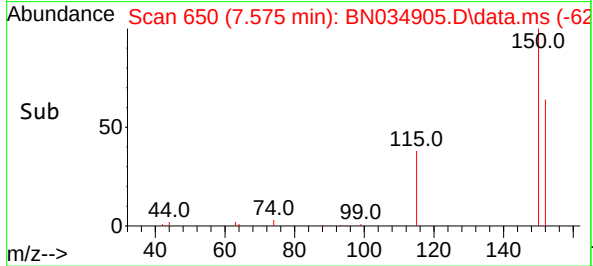


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034905.D
Acq: 08 Nov 2024 13:05

Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-7-GW-20241030

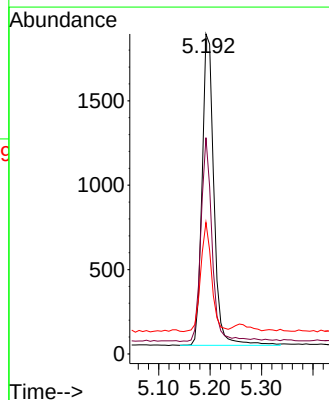
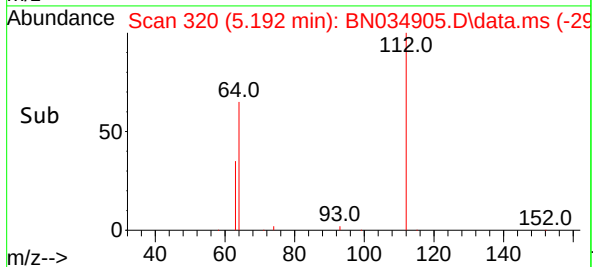
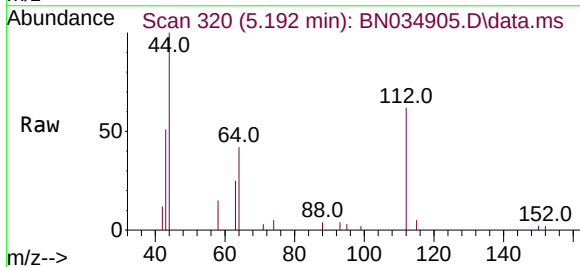


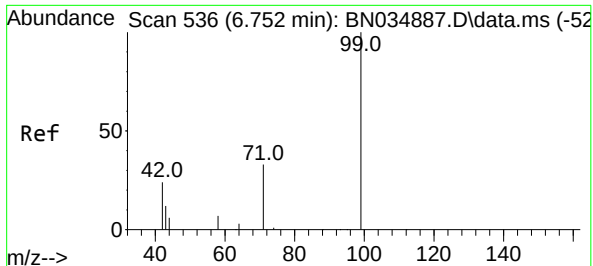
Tgt Ion:152 Resp: 5186
Ion Ratio Lower Upper
152 100
150 154.2 124.4 186.6
115 61.3 50.5 75.7



#4
2-Fluorophenol
Concen: 0.204 ng
RT: 5.192 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN034905.D
Acq: 08 Nov 2024 13:05

Tgt Ion:112 Resp: 2949
Ion Ratio Lower Upper
112 100
64 62.2 49.6 74.4
63 32.2 26.3 39.5

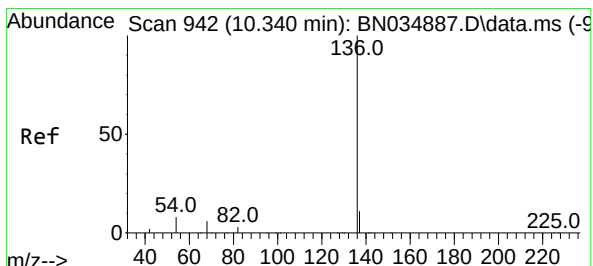
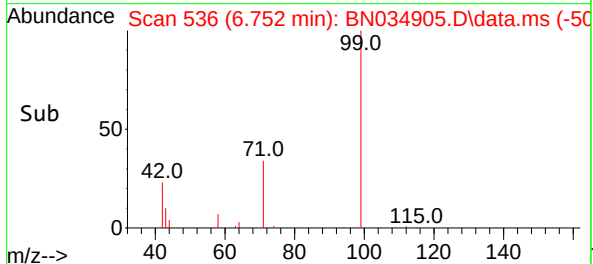
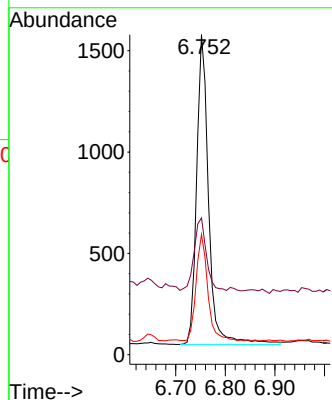
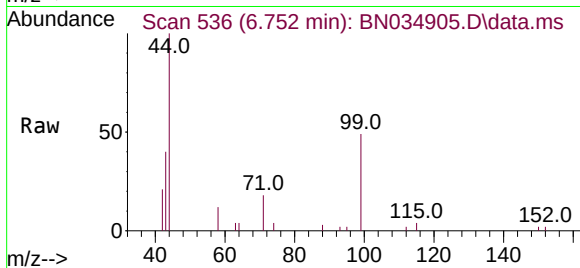




#5
Phenol-d6
Concen: 0.133 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034905.D
Acq: 08 Nov 2024 13:05

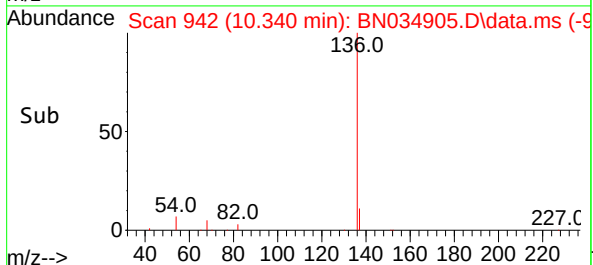
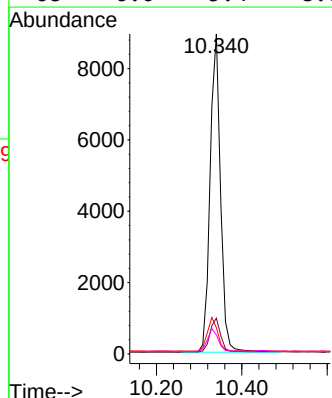
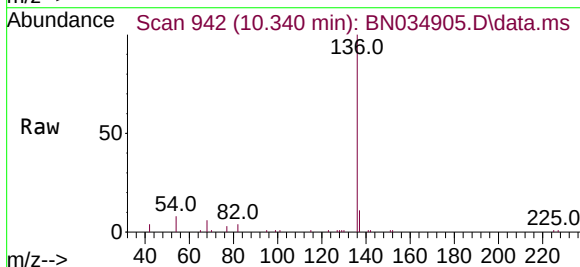
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-7-GW-20241030

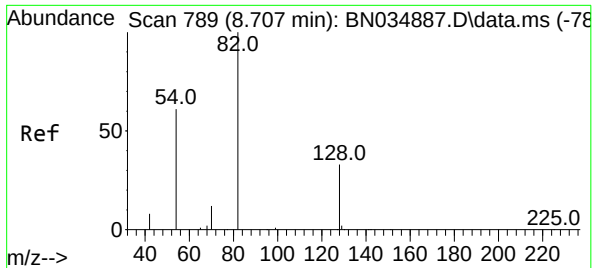
Tgt Ion:	99	Resp:	2560
Ion	Ratio	Lower	Upper
99	100		
42	23.5	20.2	30.2
71	33.5	25.4	38.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034905.D
Acq: 08 Nov 2024 13:05

Tgt Ion:	136	Resp:	15083
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	8.2	6.9	10.3
68	6.0	5.4	8.0

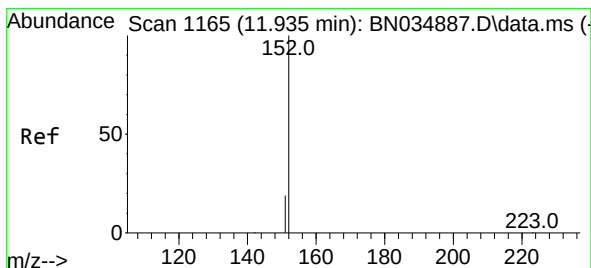
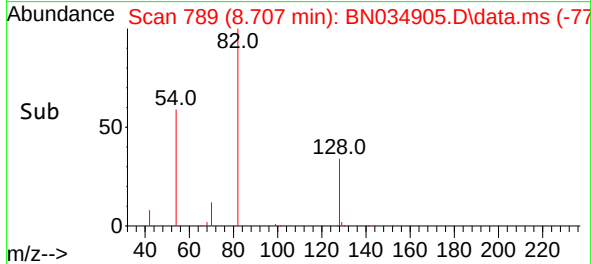
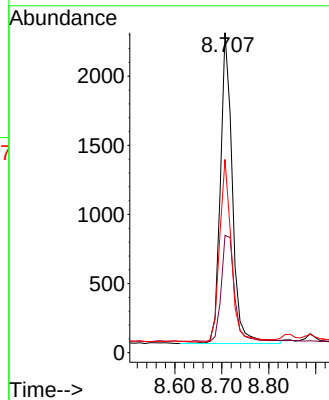
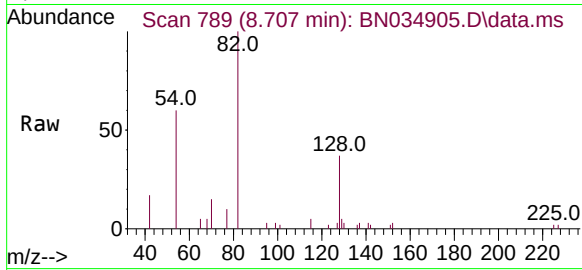




#8
Nitrobenzene-d5
Concen: 0.339 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034905.D
Acq: 08 Nov 2024 13:05

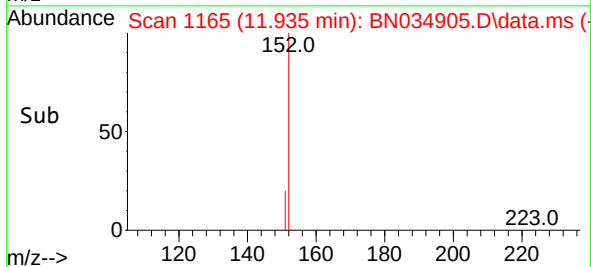
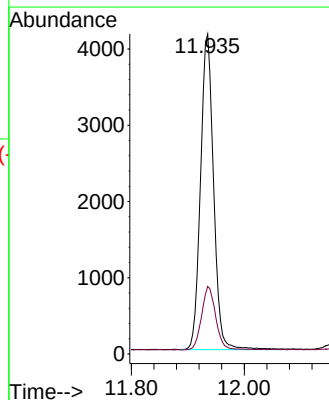
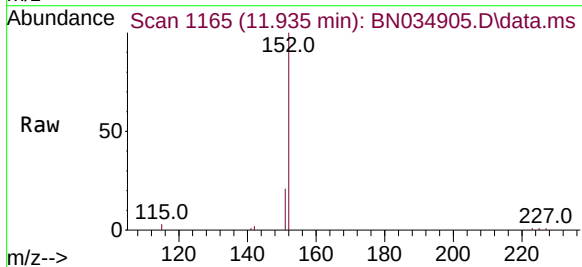
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-7-GW-20241030

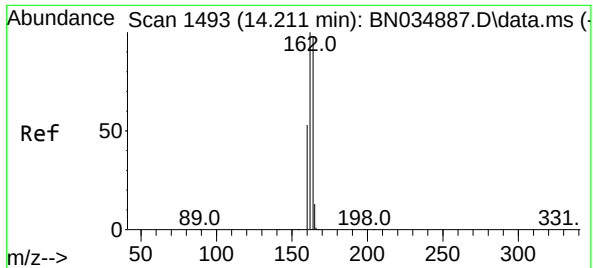
Tgt Ion:	82	Resp:	3987
Ion	Ratio	Lower	Upper
82	100		
128	36.7	28.1	42.1
54	60.4	49.8	74.6



#11
2-Methylnaphthalene-d10
Concen: 0.323 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN034905.D
Acq: 08 Nov 2024 13:05

Tgt Ion:	152	Resp:	6649
Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.1	25.7

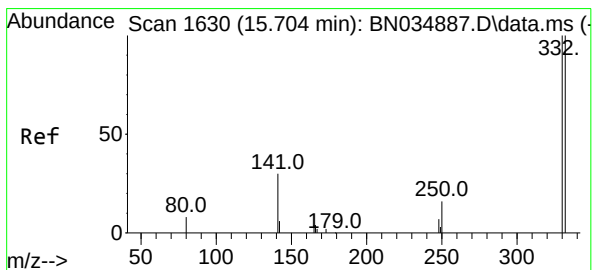
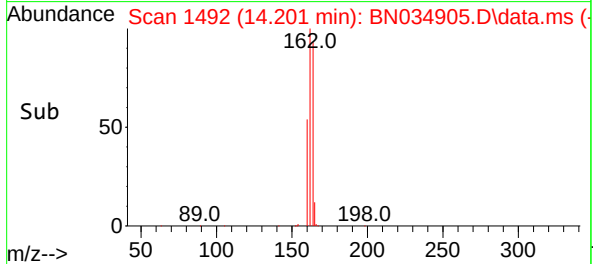
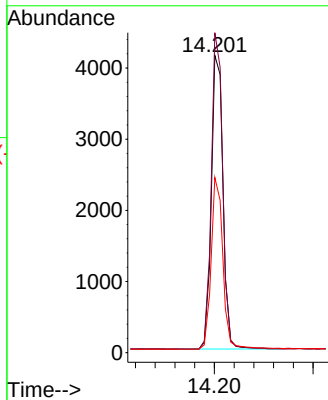
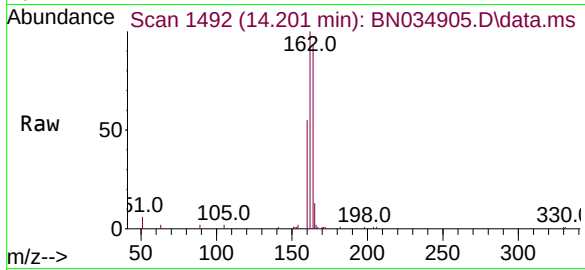




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.201 min Scan# 14
Delta R.T. -0.010 min
Lab File: BN034905.D
Acq: 08 Nov 2024 13:05

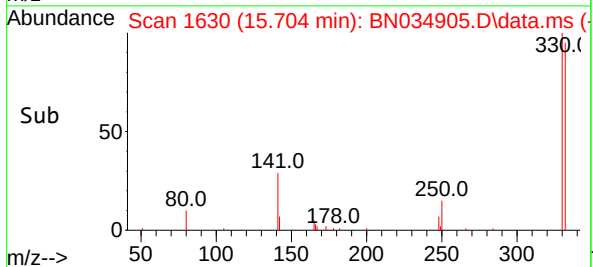
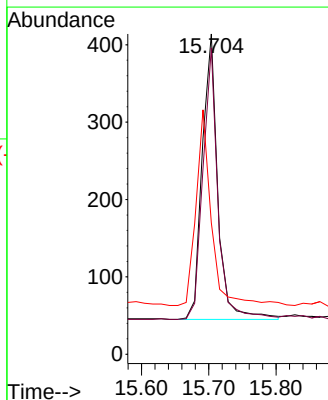
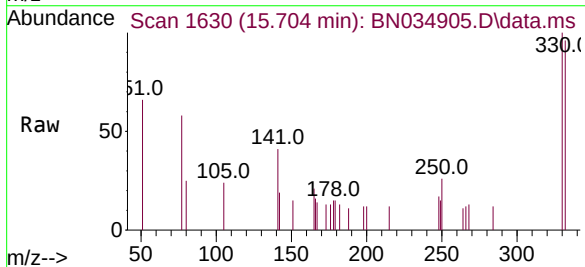
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-7-GW-20241030

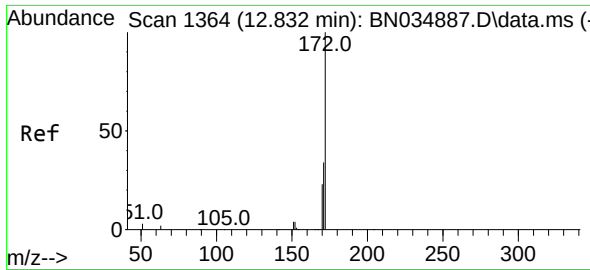
Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.7	81.9	122.9
160	59.0	43.5	65.3



#14
2,4,6-Tribromophenol
Concen: 0.342 ng
RT: 15.704 min Scan# 1630
Delta R.T. -0.000 min
Lab File: BN034905.D
Acq: 08 Nov 2024 13:05

Tgt Ion	Ratio	Lower	Upper
330	100		
332	91.6	77.1	115.7
141	67.3	54.1	81.1

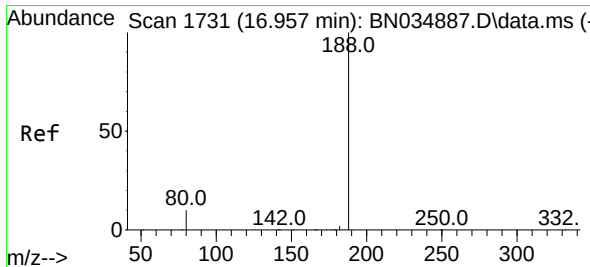
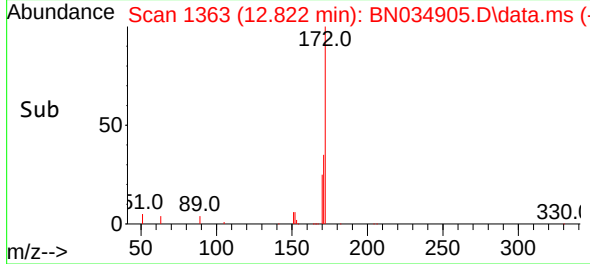
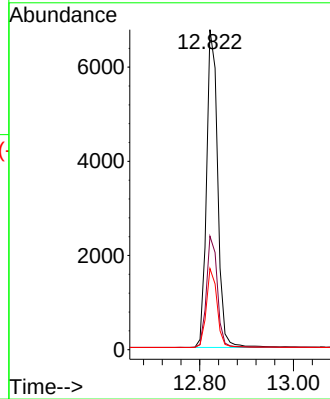
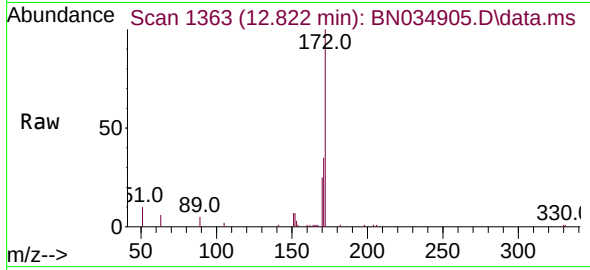




#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 12.822 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN034905.D
Acq: 08 Nov 2024 13:05

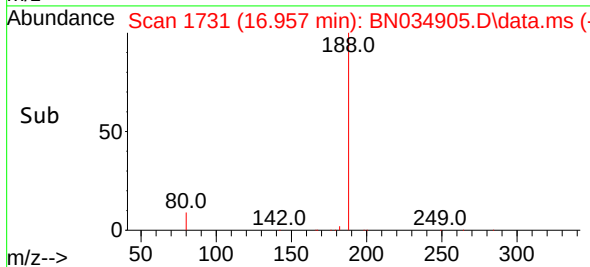
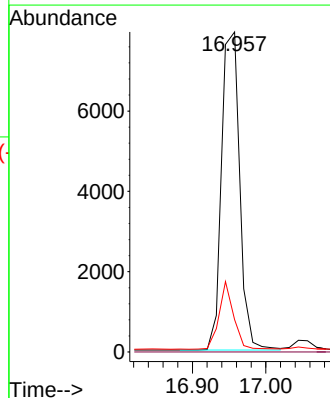
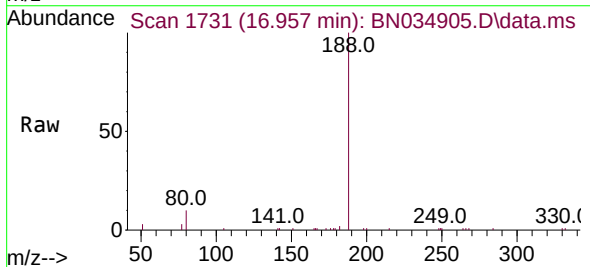
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-7-GW-20241030

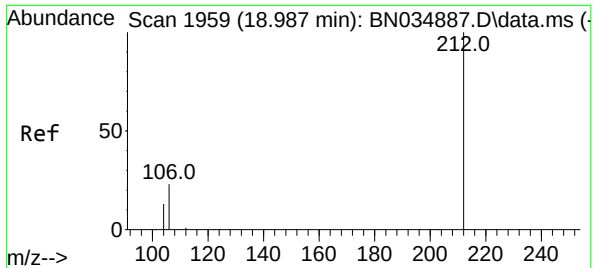
Tgt Ion:	172	Resp:	11127
Ion	Ratio	Lower	Upper
172	100		
171	35.5	27.9	41.9
170	25.3	19.0	28.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.957 min Scan# 1731
Delta R.T. 0.000 min
Lab File: BN034905.D
Acq: 08 Nov 2024 13:05

Tgt Ion:	188	Resp:	13647
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	8.6	12.8

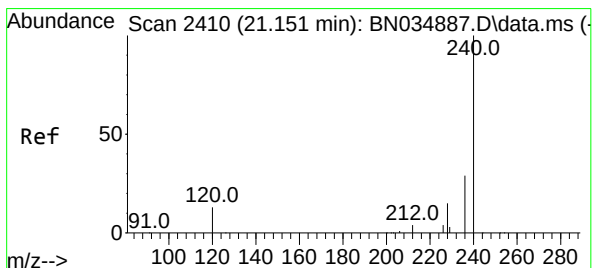
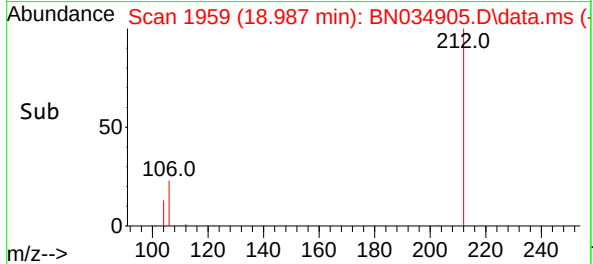
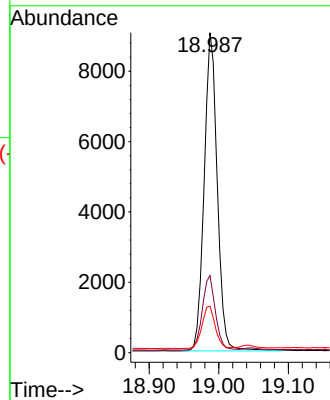
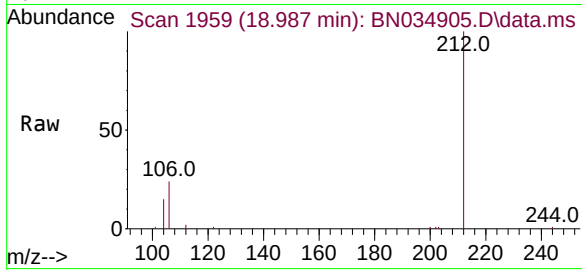




#27
Fluoranthene-d10
Concen: 0.383 ng
RT: 18.987 min Scan# 1959
Delta R.T. 0.000 min
Lab File: BN034905.D
Acq: 08 Nov 2024 13:05

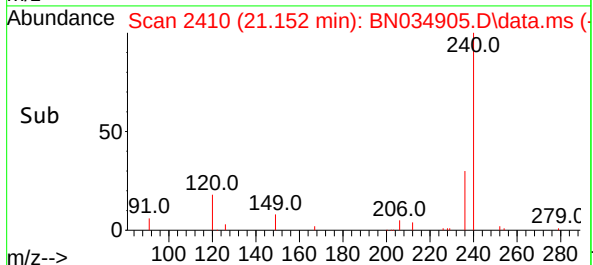
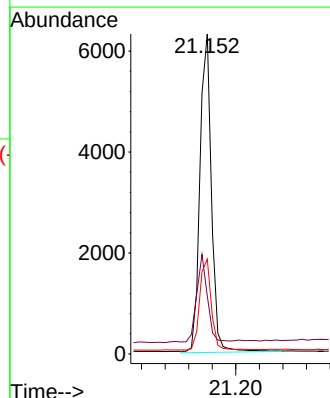
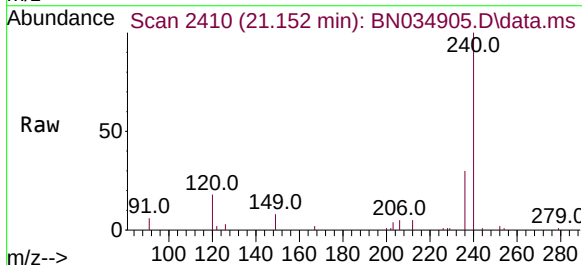
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-7-GW-20241030

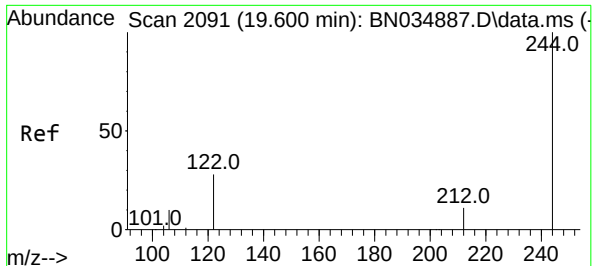
Tgt Ion	Ratio	Lower	Upper
212	100		
106	23.4	18.2	27.4
104	13.5	10.6	15.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.152 min Scan# 2410
Delta R.T. 0.000 min
Lab File: BN034905.D
Acq: 08 Nov 2024 13:05

Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.2	13.8	20.8
236	29.6	23.8	35.6





#31

Terphenyl-d14

Concen: 0.458 ng

RT: 19.601 min Scan# 2091

Delta R.T. 0.000 min

Lab File: BN034905.D

Acq: 08 Nov 2024 13:05

Instrument :

BNA_N

ClientSampleId :

BP-BPOW6-7-GW-20241030

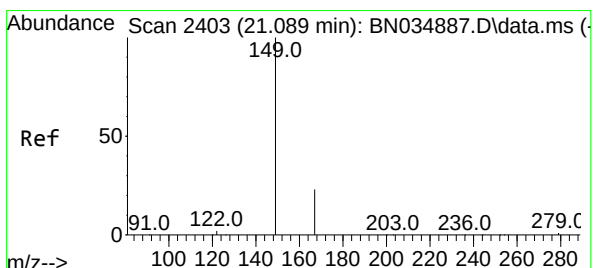
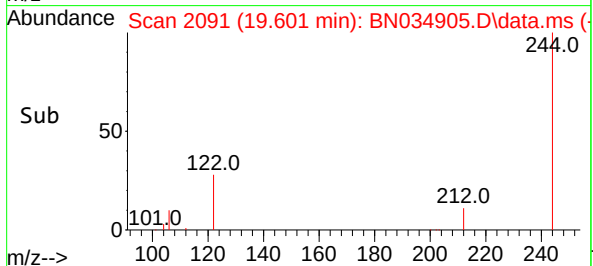
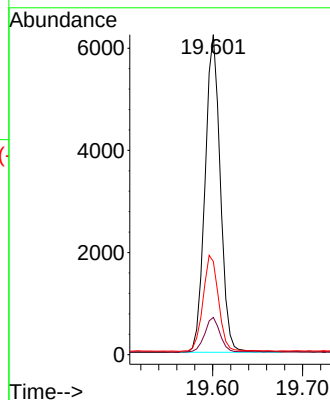
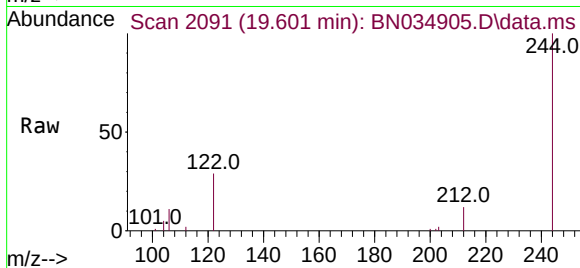
Tgt Ion:244 Resp: 7348

Ion Ratio Lower Upper

244 100

212 11.7 9.4 14.0

122 29.1 23.0 34.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.059 ng

RT: 21.089 min Scan# 2403

Delta R.T. -0.000 min

Lab File: BN034905.D

Acq: 08 Nov 2024 13:05

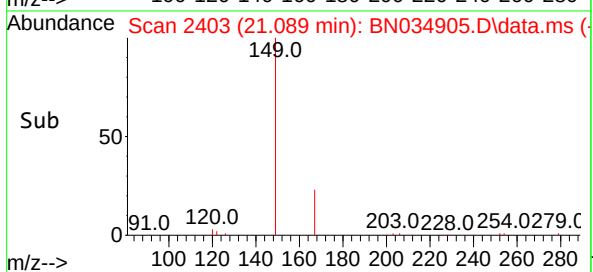
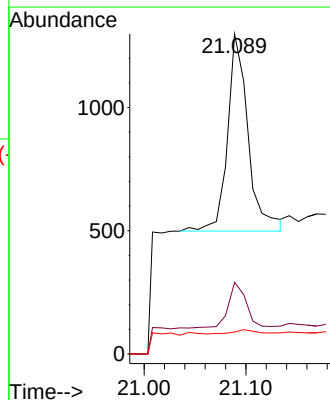
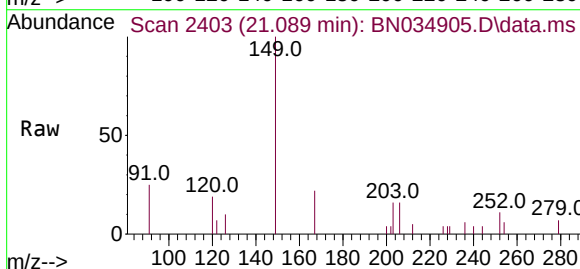
Tgt Ion:149 Resp: 1125

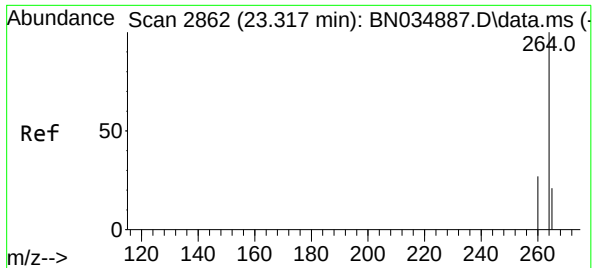
Ion Ratio Lower Upper

149 100

167 20.5 18.1 27.1

279 2.8 1.2 1.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.321 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034905.D

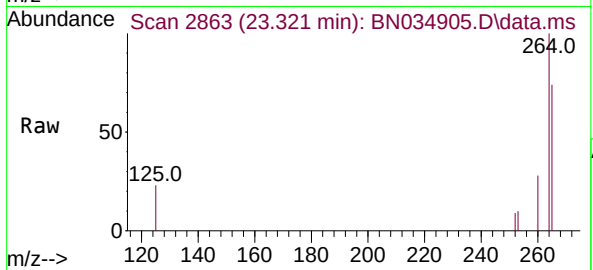
Acq: 08 Nov 2024 13:05

Instrument :

BNA_N

ClientSampleId :

BP-BPOW6-7-GW-20241030



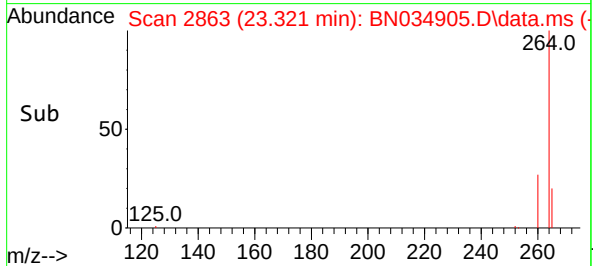
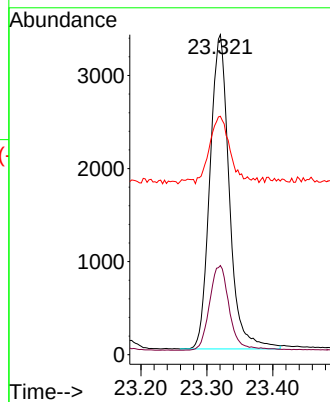
Tgt Ion:264 Resp: 6880

Ion	Ratio	Lower	Upper

264	100		

260	27.8	22.2	33.2

265	74.5	60.9	91.3



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/31/24
Project:	CTO WE13	Date Received:	11/04/24
Client Sample ID:	BP-BPOW6-11-GW-20241031	SDG No.:	P4710
Lab Sample ID:	P4710-03	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
BN034906.D	1	11/06/24 08:45	11/08/24 13:41	PB164705

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	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	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	5460	7.575				
1146-65-2	Naphthalene-d8	15800	10.34				
15067-26-2	Acenaphthene-d10	7290	14.208				
1517-22-2	Phenanthrene-d10	14800	16.952				
1719-03-5	Chrysene-d12	9380	21.149				
1520-96-3	Perylene-d12	7760	23.318				

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\BN110824\
Data File : BN034906.D
Acq On : 08 Nov 2024 13:41
Operator : RC/JU
Sample : P4710-03
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-11-GW-20241031

Quant Time: Nov 08 14:18:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 2024
Response via : Initial Calibration

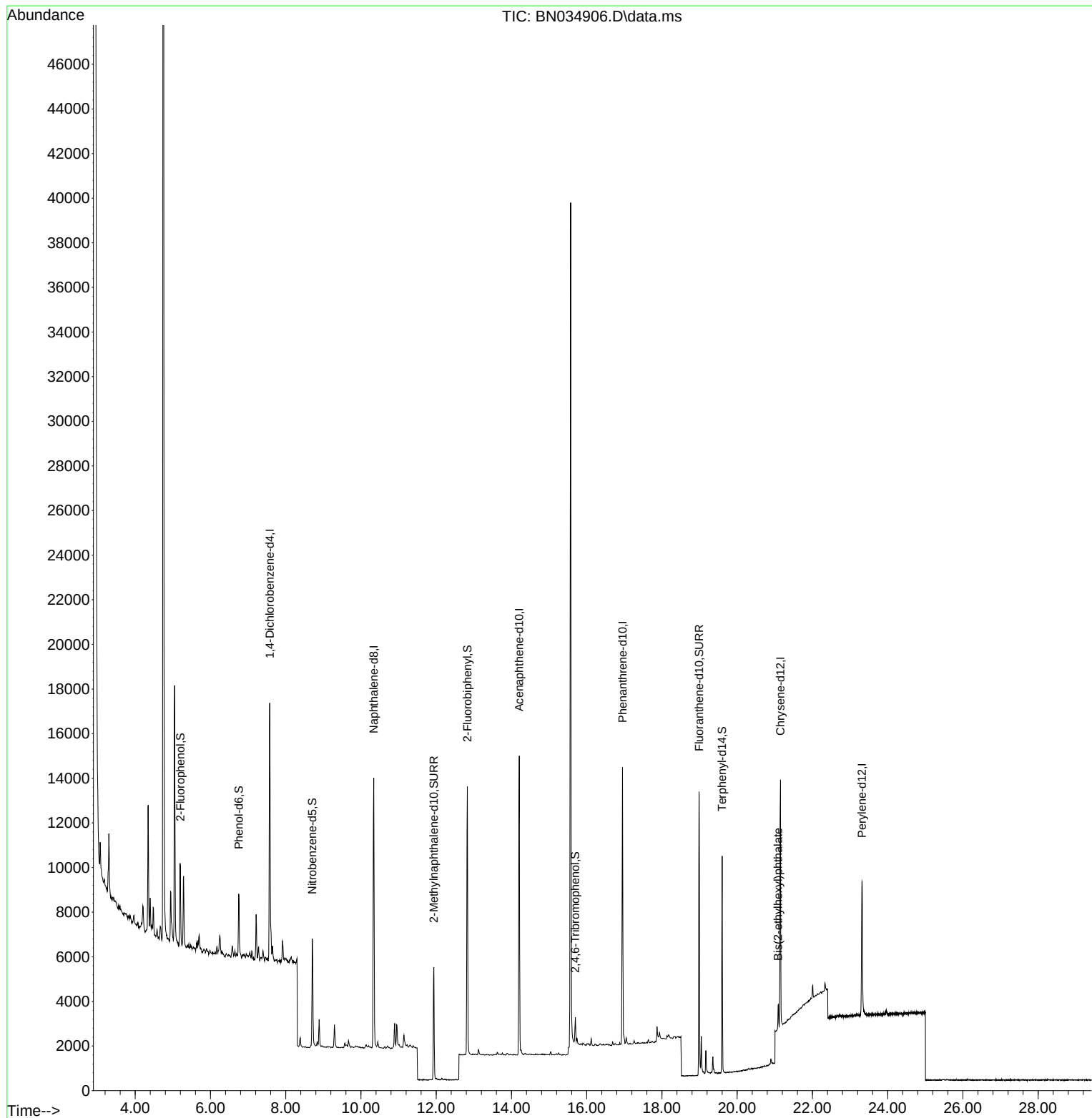
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	5457	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	15845	0.400	ng	0.00
13) Acenaphthene-d10	14.208	164	7293	0.400	ng	0.00
19) Phenanthrene-d10	16.952	188	14785	0.400	ng	# 0.00
29) Chrysene-d12	21.149	240	9375	0.400	ng	0.00
35) Perylene-d12	23.318	264	7760	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.199	112	2842	0.187	ng	0.00
5) Phenol-d6	6.752	99	2449	0.121	ng	0.00
8) Nitrobenzene-d5	8.707	82	4039	0.327	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	6806	0.315	ng	0.00
14) 2,4,6-Tribromophenol	15.698	330	583	0.312	ng	0.00
15) 2-Fluorobiphenyl	12.829	172	10634	0.345	ng	0.00
27) Fluoranthene-d10	18.990	212	12450	0.373	ng	0.00
31) Terphenyl-d14	19.598	244	7337	0.418	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.086	149	1357	0.065	ng	# 95

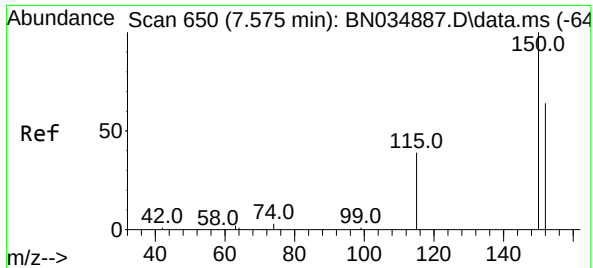
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
Data File : BN034906.D
Acq On : 08 Nov 2024 13:41
Operator : RC/JU
Sample : P4710-03
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-11-GW-20241031

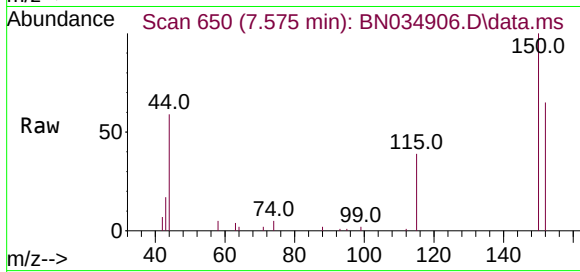
Quant Time: Nov 08 14:18:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 2024
Response via : Initial Calibration



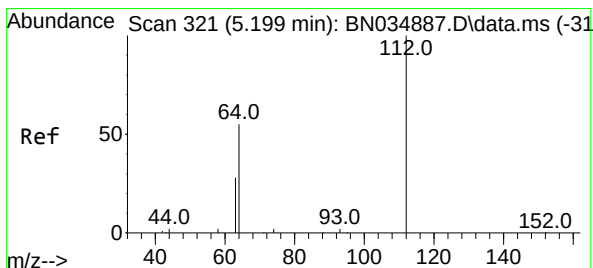
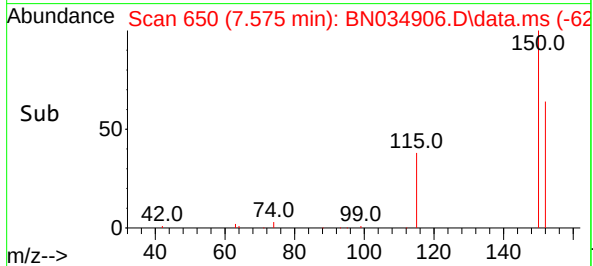
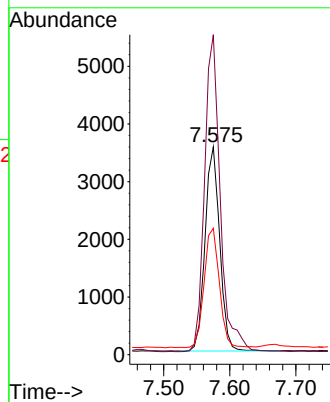


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034906.D
Acq: 08 Nov 2024 13:41

Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-11-GW-20241031

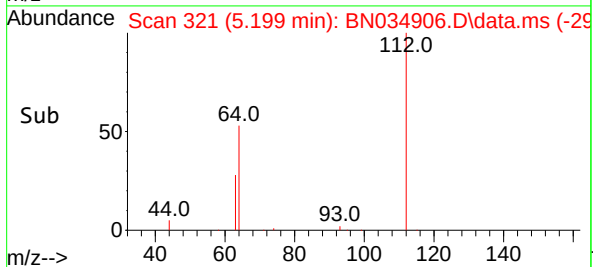
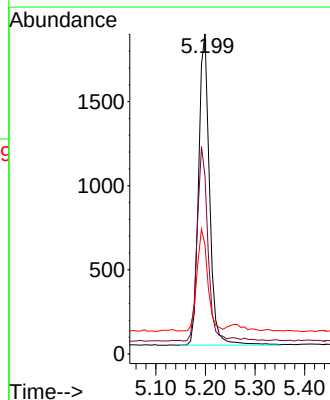
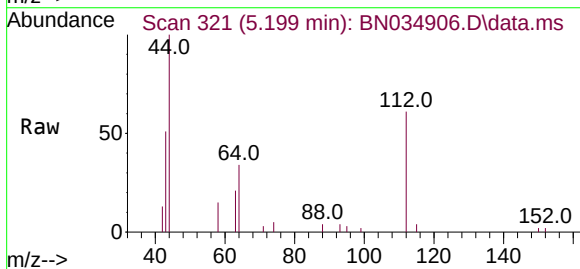


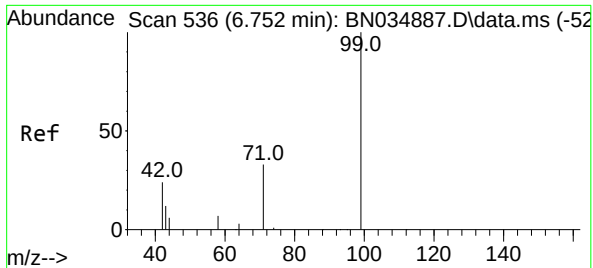
Tgt Ion:152 Resp: 5457
Ion Ratio Lower Upper
152 100
150 154.0 124.4 186.6
115 60.8 50.5 75.7



#4
2-Fluorophenol
Concen: 0.187 ng
RT: 5.199 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN034906.D
Acq: 08 Nov 2024 13:41

Tgt Ion:112 Resp: 2842
Ion Ratio Lower Upper
112 100
64 61.4 49.6 74.4
63 31.9 26.3 39.5

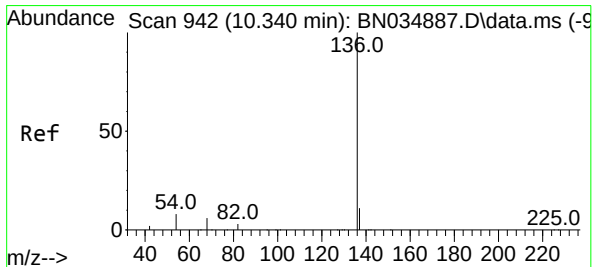
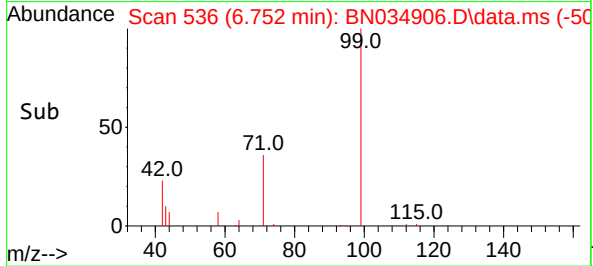
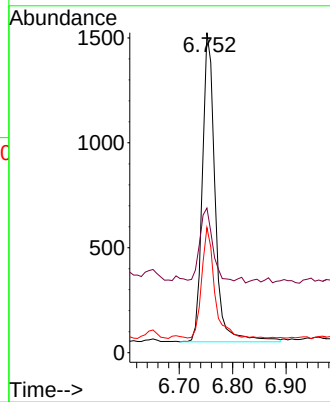
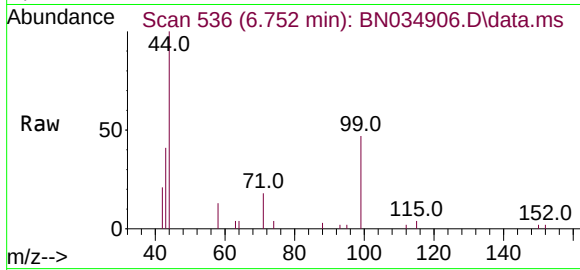




#5
Phenol-d6
Concen: 0.121 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034906.D
Acq: 08 Nov 2024 13:41

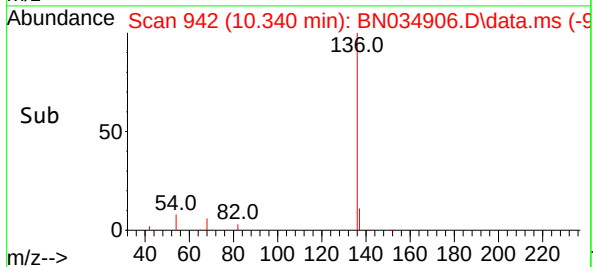
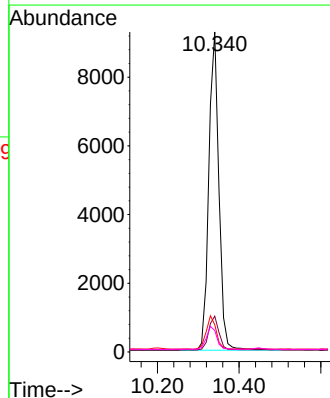
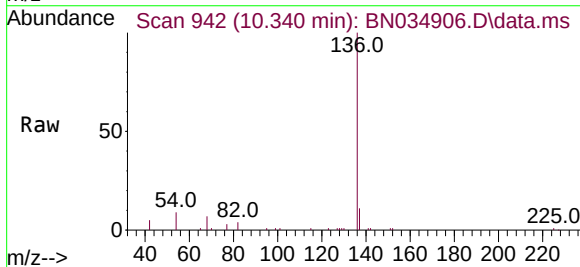
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-11-GW-20241031

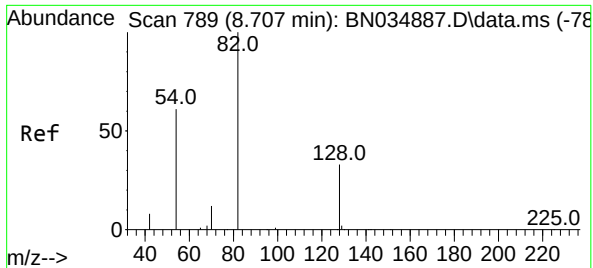
Tgt Ion:	99	Resp:	2449
Ion	Ratio	Lower	Upper
99	100		
42	23.3	20.2	30.2
71	36.1	25.4	38.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034906.D
Acq: 08 Nov 2024 13:41

Tgt Ion:	136	Resp:	15845
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	8.5	6.9	10.3
68	6.7	5.4	8.0

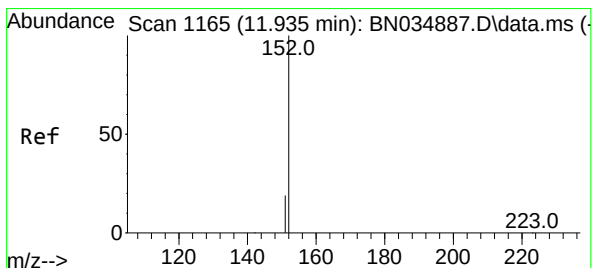
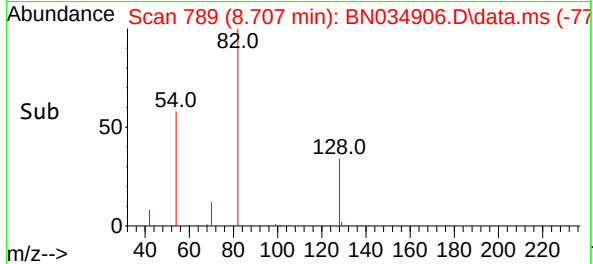
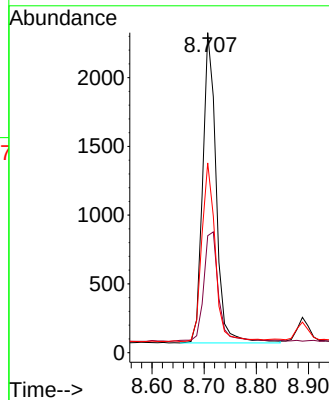
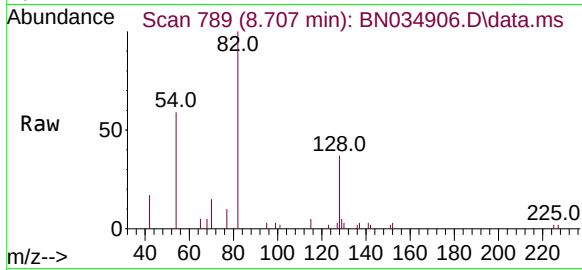




#8
Nitrobenzene-d5
Concen: 0.327 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034906.D
Acq: 08 Nov 2024 13:41

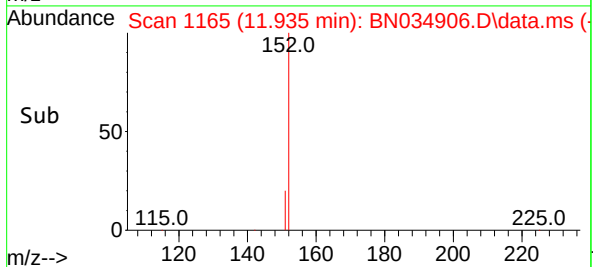
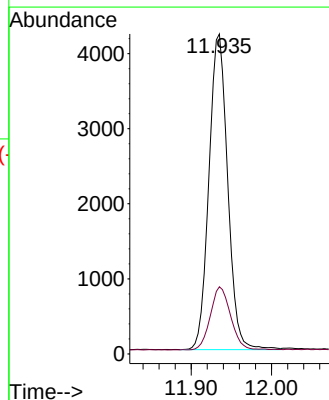
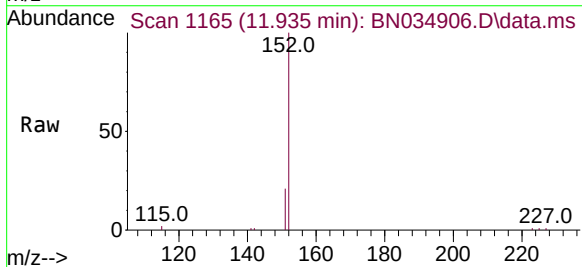
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-11-GW-20241031

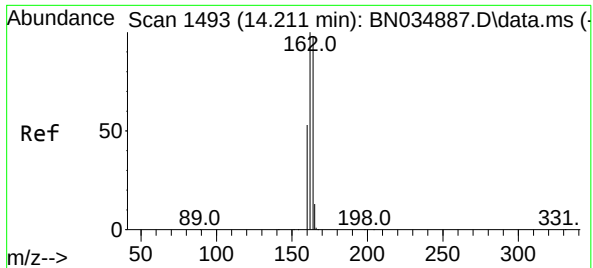
Tgt Ion:	82	Resp:	4039
Ion	Ratio	Lower	Upper
82	100		
128	36.6	28.1	42.1
54	59.3	49.8	74.6



#11
2-Methylnaphthalene-d10
Concen: 0.315 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN034906.D
Acq: 08 Nov 2024 13:41

Tgt Ion:	152	Resp:	6806
Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.1	25.7

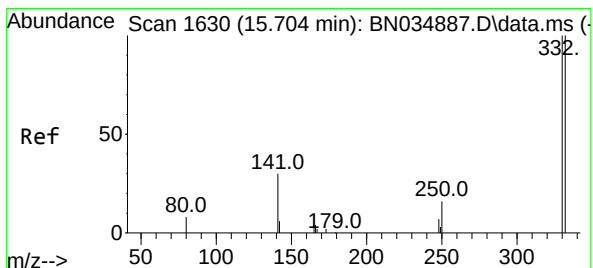
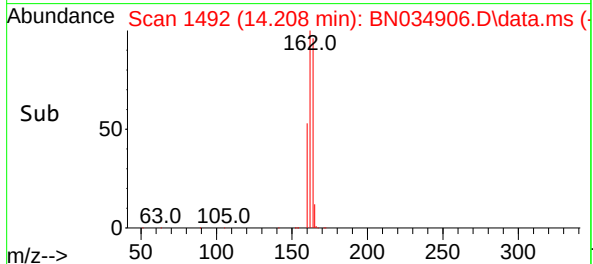
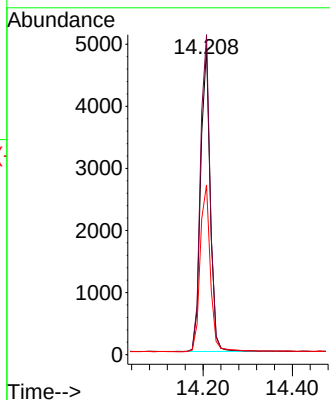
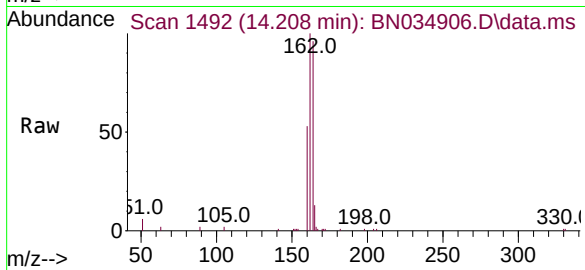




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.208 min Scan# 14
Delta R.T. -0.003 min
Lab File: BN034906.D
Acq: 08 Nov 2024 13:41

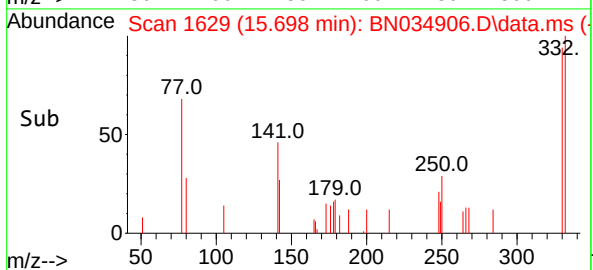
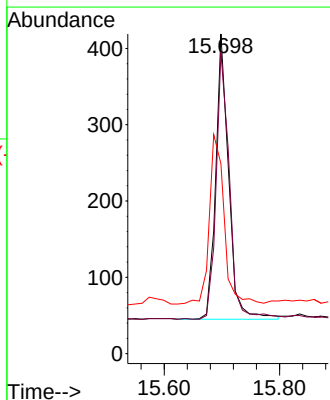
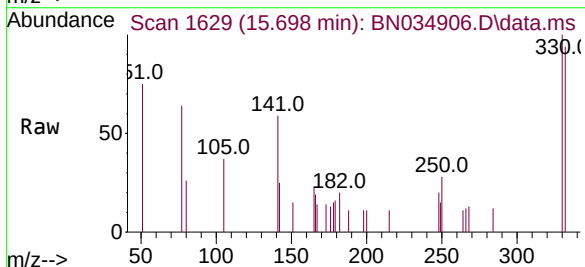
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-11-GW-20241031

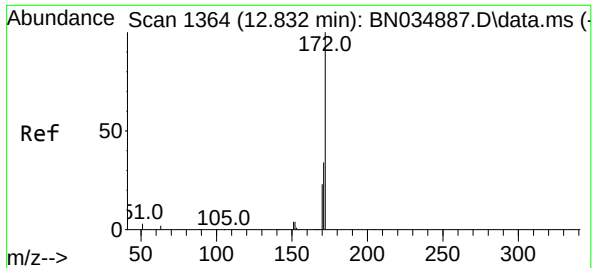
Tgt Ion	164	Resp	7293
Ion	Ratio	Lower	Upper
164	100		
162	104.3	81.9	122.9
160	55.3	43.5	65.3



#14
2,4,6-Tribromophenol
Concen: 0.312 ng
RT: 15.698 min Scan# 1629
Delta R.T. -0.006 min
Lab File: BN034906.D
Acq: 08 Nov 2024 13:41

Tgt Ion	330	Resp	583
Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.1	115.7
141	66.9	54.1	81.1

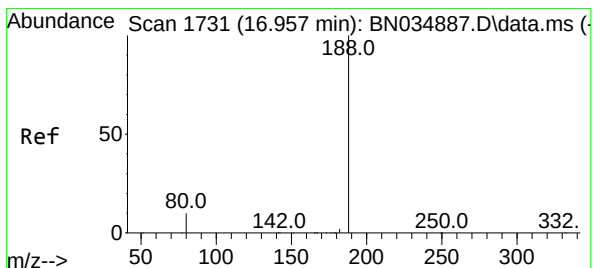
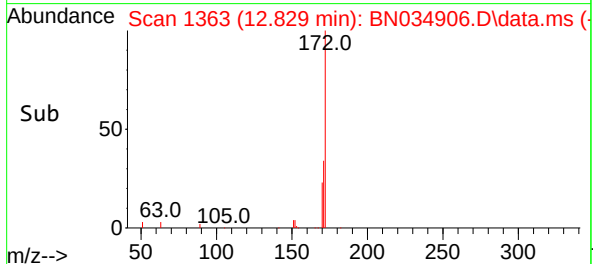
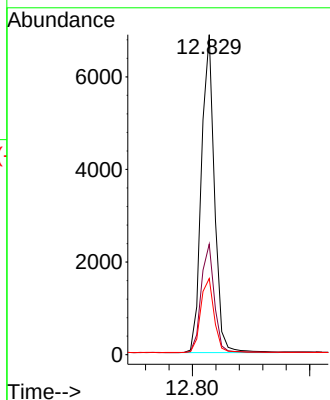
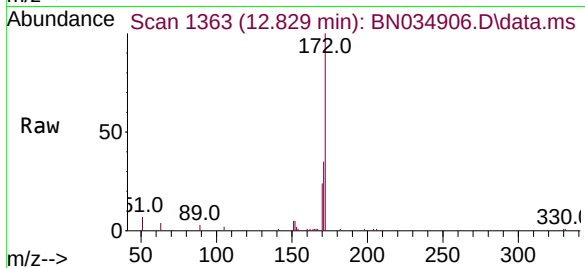




#15
2-Fluorobiphenyl
Concen: 0.345 ng
RT: 12.829 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN034906.D
Acq: 08 Nov 2024 13:41

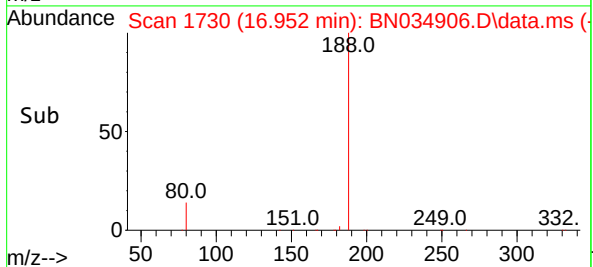
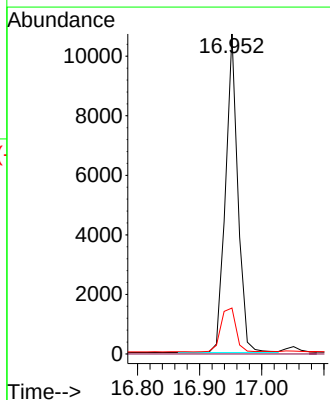
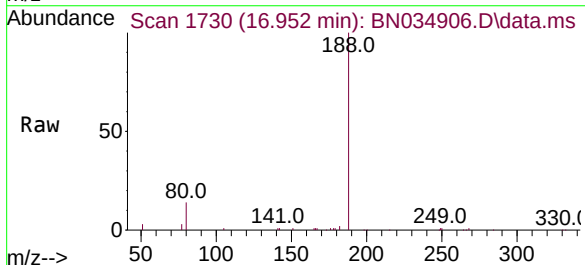
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-11-GW-20241031

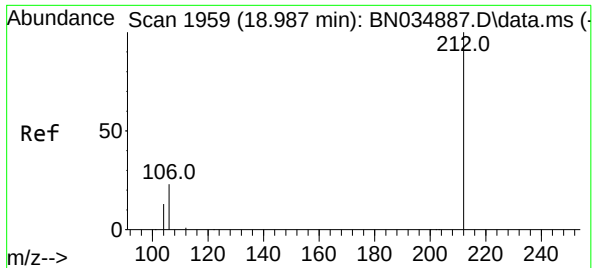
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.9	41.9
170	23.8	19.0	28.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.952 min Scan# 1730
Delta R.T. -0.005 min
Lab File: BN034906.D
Acq: 08 Nov 2024 13:41

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.3	8.6	12.8#

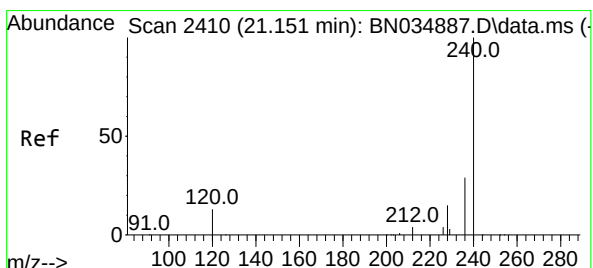
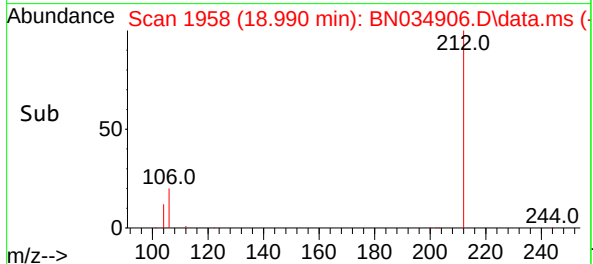
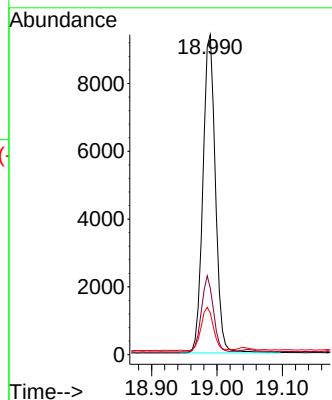
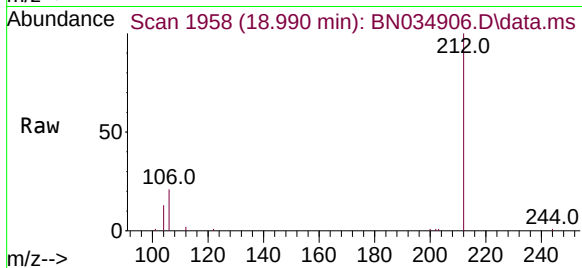




#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 18.990 min Scan# 1958
Delta R.T. 0.002 min
Lab File: BN034906.D
Acq: 08 Nov 2024 13:41

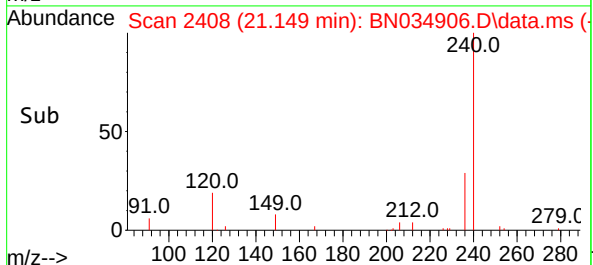
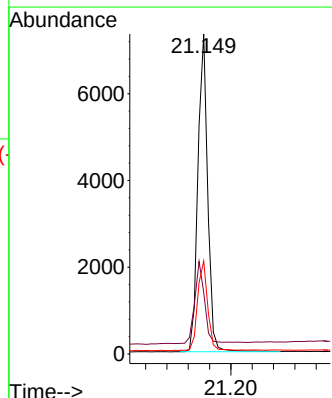
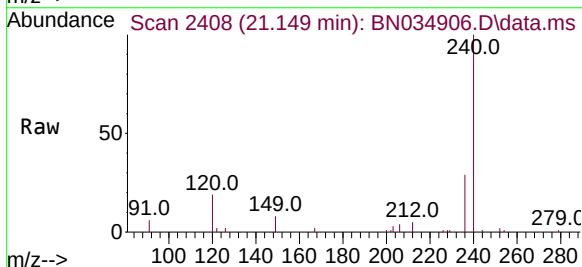
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-11-GW-20241031

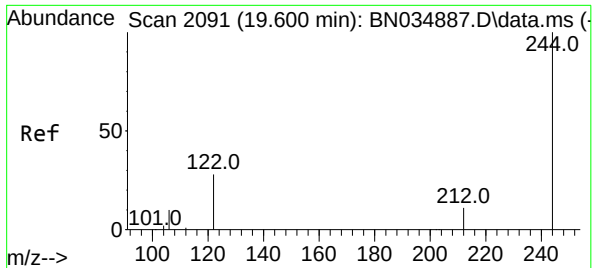
Tgt Ion:	212	Resp:	12450
Ion Ratio	Lower	Upper	
212	100		
106	22.9	18.2	27.4
104	13.5	10.6	15.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.149 min Scan# 2408
Delta R.T. -0.002 min
Lab File: BN034906.D
Acq: 08 Nov 2024 13:41

Tgt Ion:	240	Resp:	9375
Ion Ratio	Lower	Upper	
240	100		
120	19.2	13.8	20.8
236	29.0	23.8	35.6

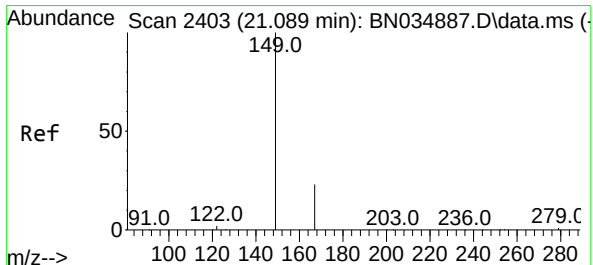
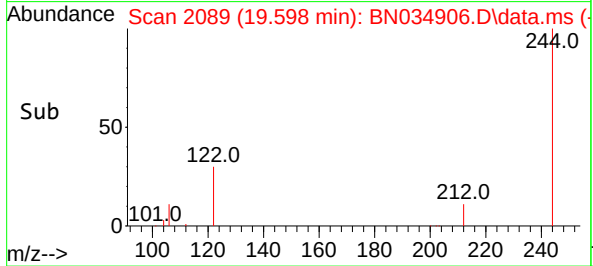
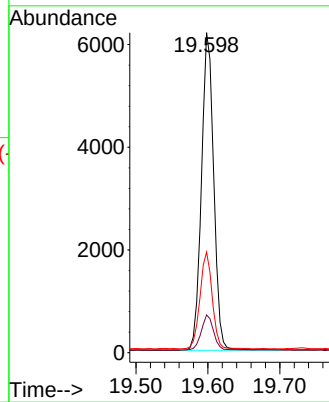
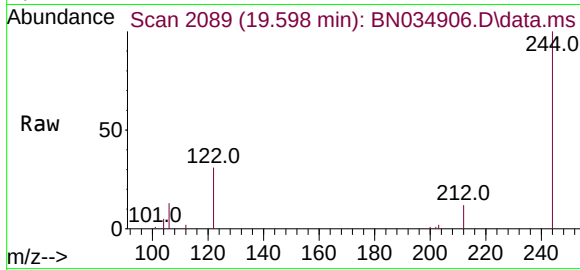




#31
Terphenyl-d14
Concen: 0.418 ng
RT: 19.598 min Scan# 2091
Delta R.T. -0.002 min
Lab File: BN034906.D
Acq: 08 Nov 2024 13:41

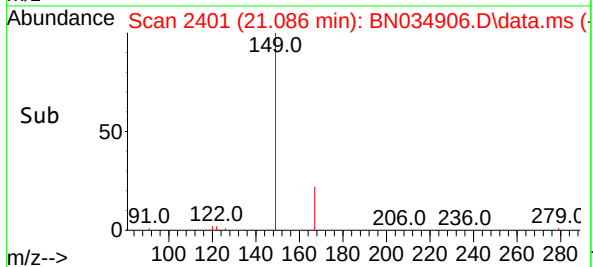
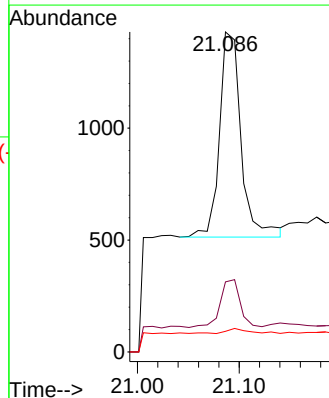
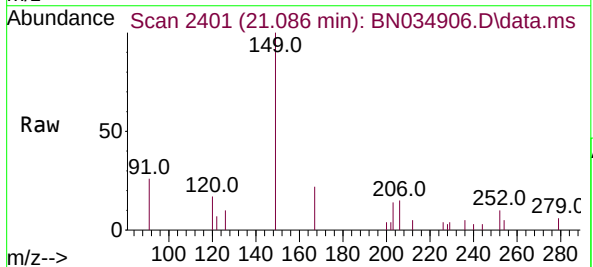
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-11-GW-20241031

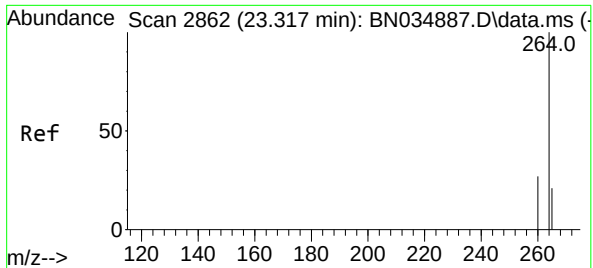
Tgt Ion:244 Resp: 7337
Ion Ratio Lower Upper
244 100
212 11.8 9.4 14.0
122 31.5 23.0 34.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.065 ng
RT: 21.086 min Scan# 2401
Delta R.T. -0.003 min
Lab File: BN034906.D
Acq: 08 Nov 2024 13:41

Tgt Ion:149 Resp: 1357
Ion Ratio Lower Upper
149 100
167 20.2 18.1 27.1
279 2.9 1.2 1.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.318 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN034906.D

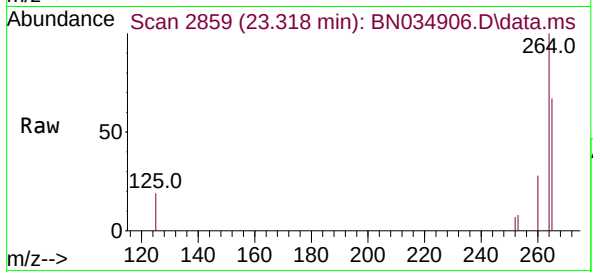
Acq: 08 Nov 2024 13:41

Instrument :

BNA_N

ClientSampleId :

BP-BPOW6-11-GW-20241031



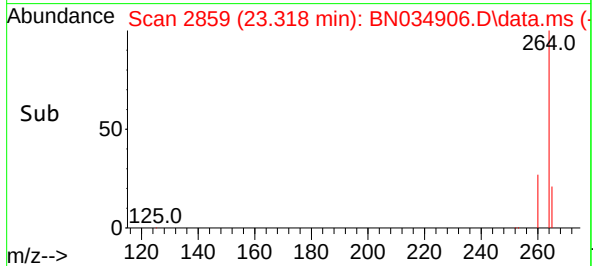
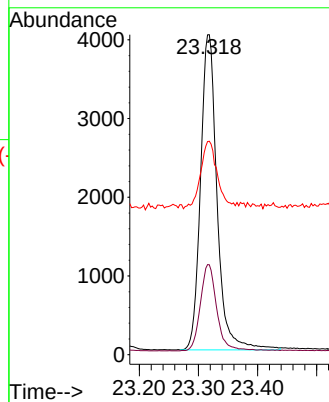
Tgt Ion:264 Resp: 7760

Ion	Ratio	Lower	Upper

264	100		

260	28.1	22.2	33.2

265	66.7	60.9	91.3



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	11/01/24	
Project:	CTO WE13		Date Received:	11/04/24	
Client Sample ID:	BP-BPOW6-8-GW-20241101		SDG No.:	P4710	
Lab Sample ID:	P4710-04		Matrix:	Water	
Analytical Method:	SW8270SIM		% Solid:	0	
Sample Wt/Vol:	980	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
BN034907.D	1	11/06/24 08:45	11/08/24 14:17	PB164705

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	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		96%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		111%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5710	7.575				
1146-65-2	Naphthalene-d8	16700	10.34				
15067-26-2	Acenaphthene-d10	7610	14.208				
1517-22-2	Phenanthrene-d10	15600	16.952				
1719-03-5	Chrysene-d12	9490	21.149				
1520-96-3	Perylene-d12	7810	23.318				

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\BN110824\
Data File : BN034907.D
Acq On : 08 Nov 2024 14:17
Operator : RC/JU
Sample : P4710-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-8-GW-20241101

Quant Time: Nov 08 15:00:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 2024
Response via : Initial Calibration

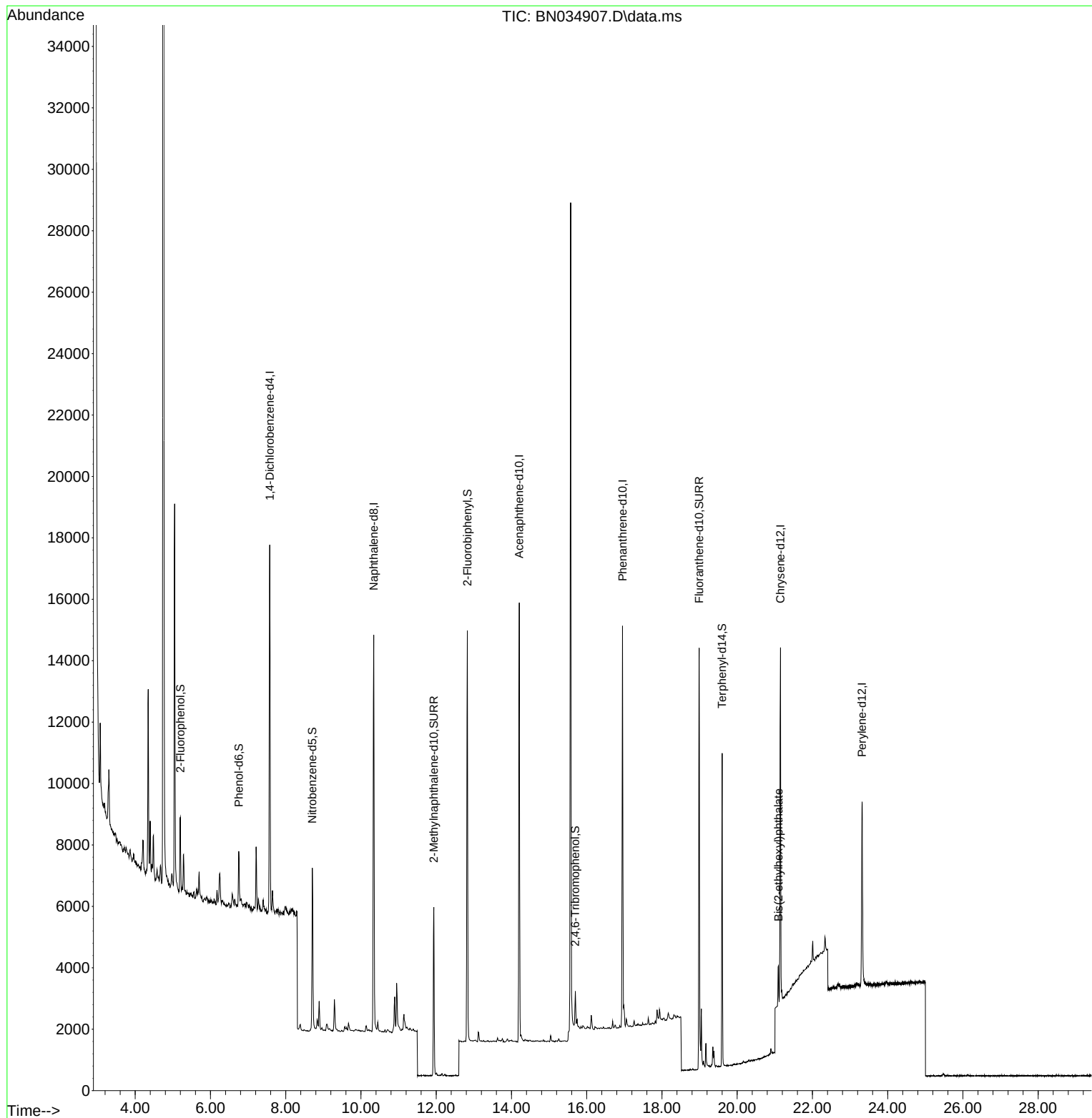
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	5705	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	16698	0.400	ng	0.00
13) Acenaphthene-d10	14.208	164	7609	0.400	ng	0.00
19) Phenanthrene-d10	16.952	188	15639	0.400	ng	# 0.00
29) Chrysene-d12	21.149	240	9493	0.400	ng	0.00
35) Perylene-d12	23.318	264	7807	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.199	112	1923	0.121	ng	0.00
5) Phenol-d6	6.752	99	1560	0.074	ng	0.00
8) Nitrobenzene-d5	8.707	82	4324	0.332	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	7352	0.323	ng	0.00
14) 2,4,6-Tribromophenol	15.698	330	576	0.297	ng	0.00
15) 2-Fluorobiphenyl	12.829	172	11404	0.355	ng	0.00
27) Fluoranthene-d10	18.990	212	13593	0.385	ng	0.00
31) Terphenyl-d14	19.598	244	7875	0.443	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.095	149	1521	0.072	ng	# 96

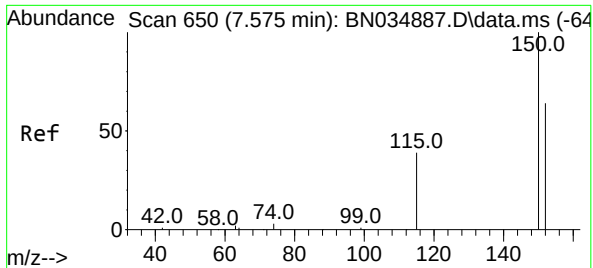
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
Data File : BN034907.D
Acq On : 08 Nov 2024 14:17
Operator : RC/JU
Sample : P4710-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-8-GW-20241101

Quant Time: Nov 08 15:00:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 2024
Response via : Initial Calibration

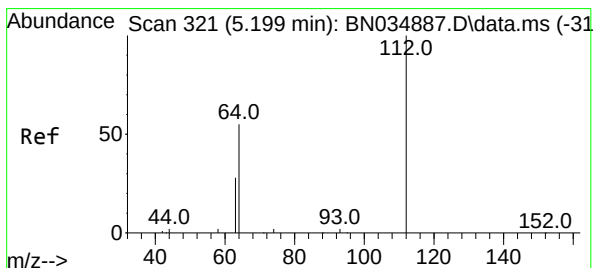
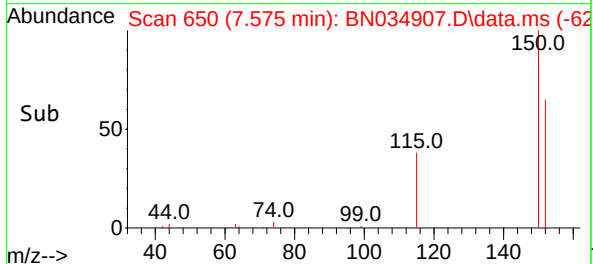
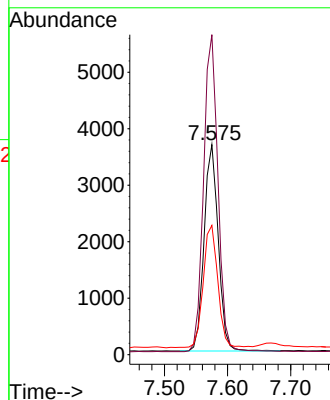
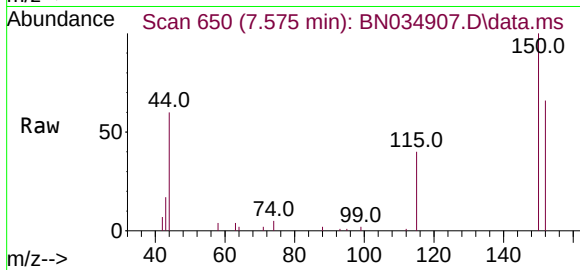




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034907.D
Acq: 08 Nov 2024 14:17

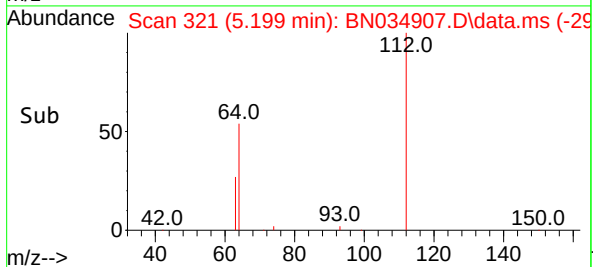
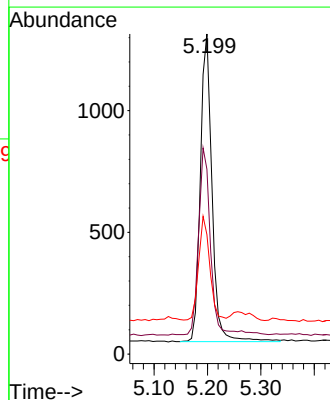
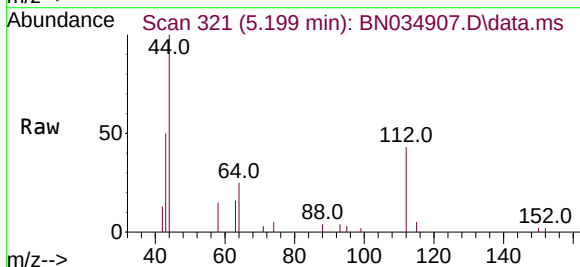
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-8-GW-20241101

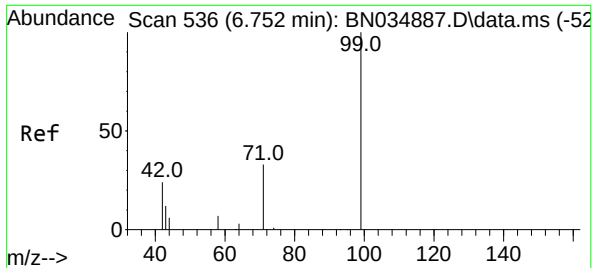
Tgt Ion:152 Resp: 5705
Ion Ratio Lower Upper
152 100
150 152.4 124.4 186.6
115 61.6 50.5 75.7



#4
2-Fluorophenol
Concen: 0.121 ng
RT: 5.199 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN034907.D
Acq: 08 Nov 2024 14:17

Tgt Ion:112 Resp: 1923
Ion Ratio Lower Upper
112 100
64 61.6 49.6 74.4
63 33.0 26.3 39.5

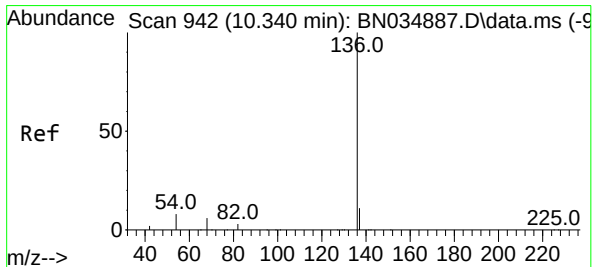
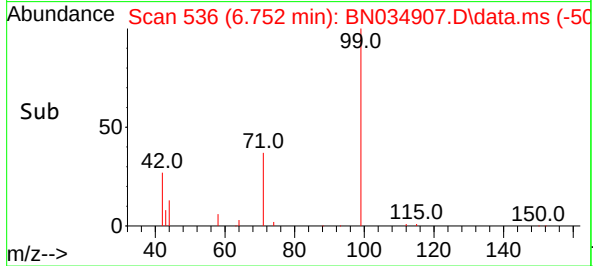
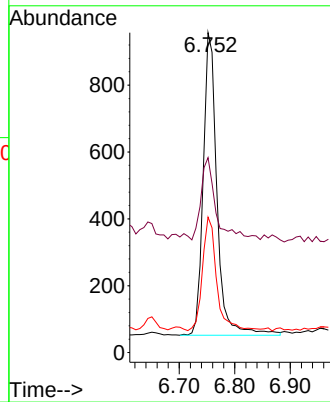
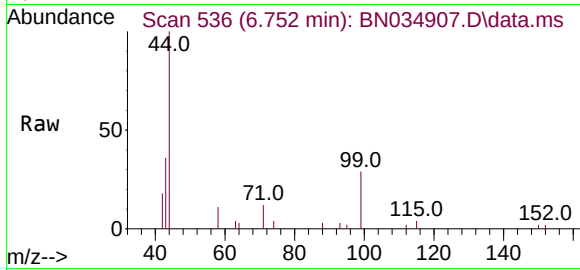




#5
Phenol-d6
Concen: 0.074 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034907.D
Acq: 08 Nov 2024 14:17

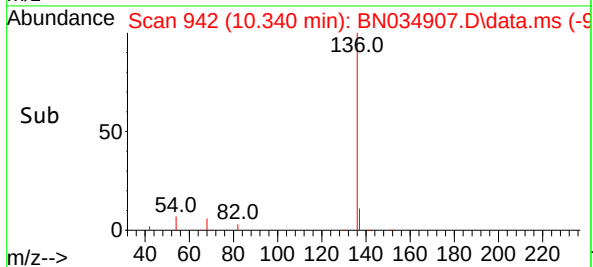
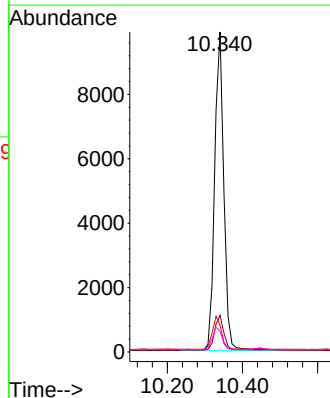
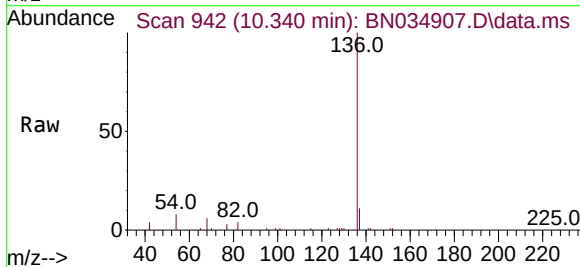
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-8-GW-20241101

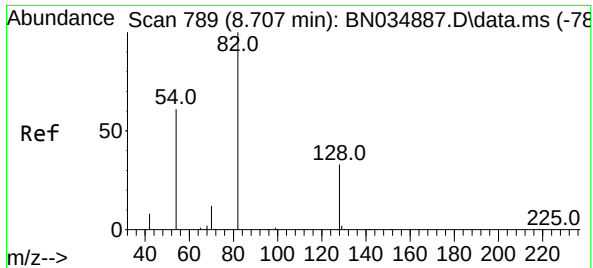
Tgt Ion:	99	Resp:	1560
Ion	Ratio	Lower	Upper
99	100		
42	29.5	20.2	30.2
71	38.5	25.4	38.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034907.D
Acq: 08 Nov 2024 14:17

Tgt Ion:	136	Resp:	16698
Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.9	13.3
54	8.4	6.9	10.3
68	6.5	5.4	8.0

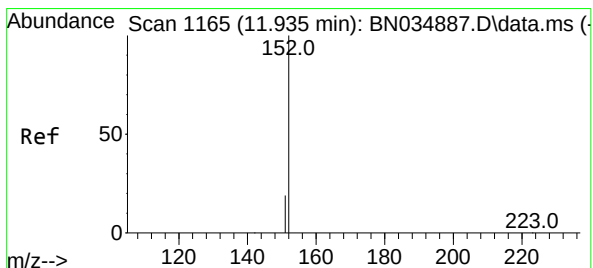
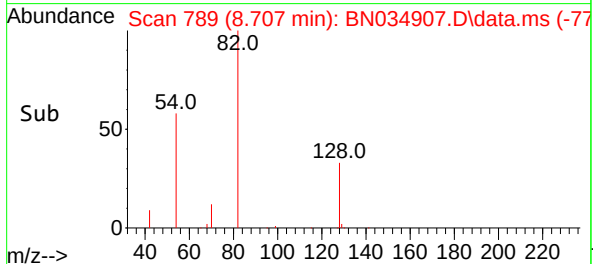
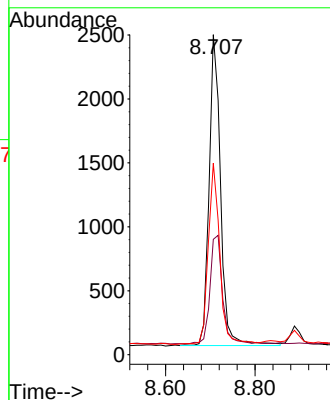
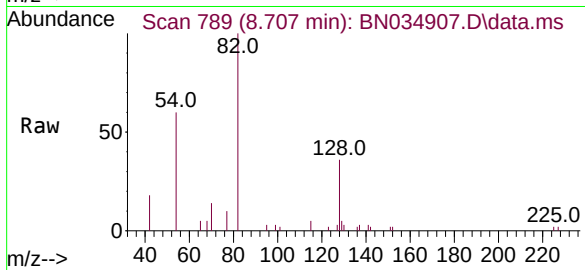




#8
Nitrobenzene-d5
Concen: 0.332 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034907.D
Acq: 08 Nov 2024 14:17

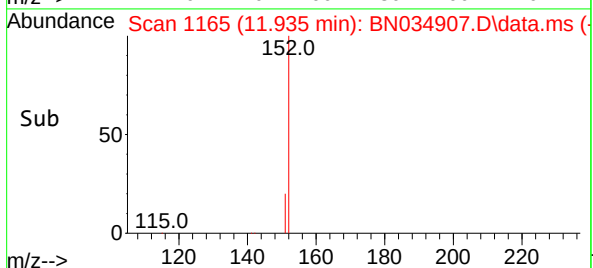
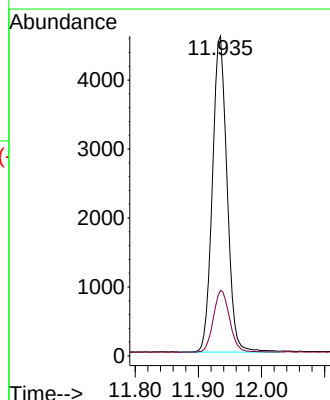
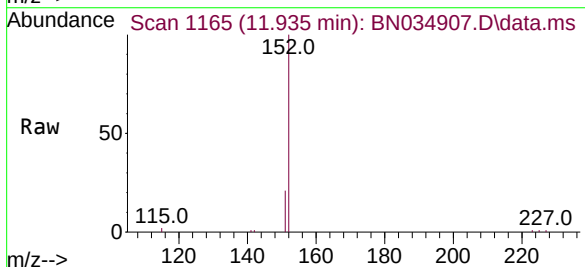
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-8-GW-20241101

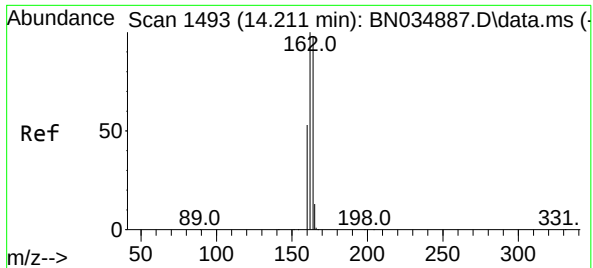
Tgt Ion:	82	Resp:	4324
Ion	Ratio	Lower	Upper
82	100		
128	36.0	28.1	42.1
54	59.8	49.8	74.6



#11
2-Methylnaphthalene-d10
Concen: 0.323 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN034907.D
Acq: 08 Nov 2024 14:17

Tgt Ion:	152	Resp:	7352
Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.1	25.7

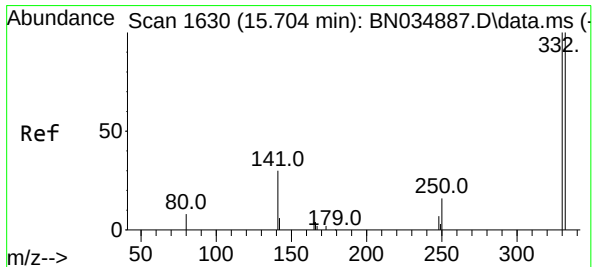
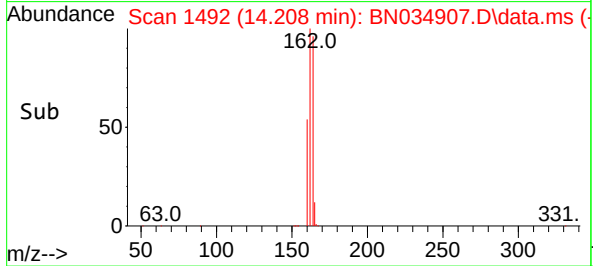
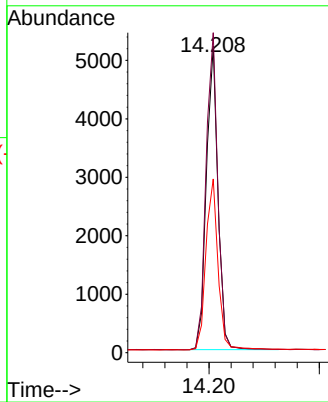
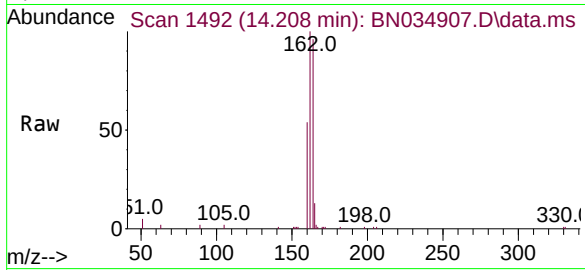




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.208 min Scan# 14
Delta R.T. -0.003 min
Lab File: BN034907.D
Acq: 08 Nov 2024 14:17

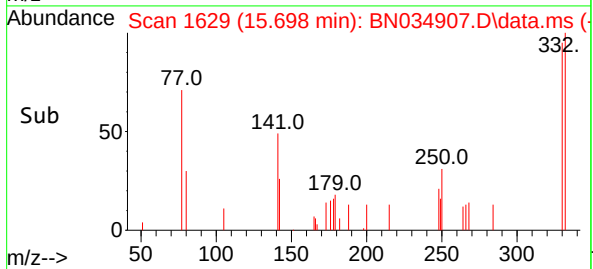
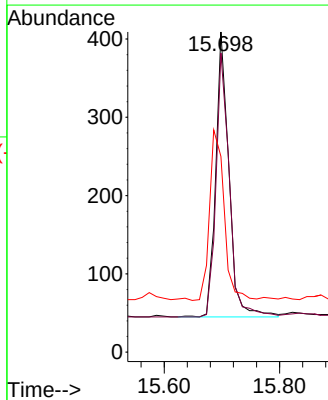
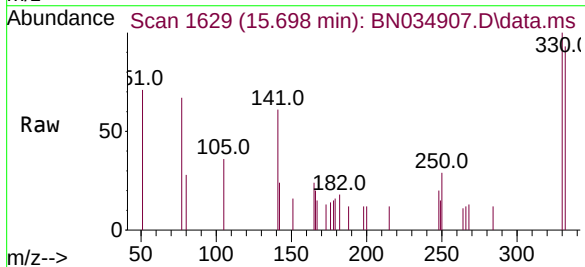
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-8-GW-20241101

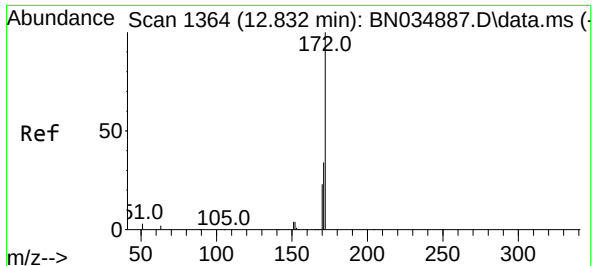
Tgt Ion:164 Resp: 7609
Ion Ratio Lower Upper
164 100
162 104.4 81.9 122.9
160 56.7 43.5 65.3



#14
2,4,6-Tribromophenol
Concen: 0.297 ng
RT: 15.698 min Scan# 1629
Delta R.T. -0.006 min
Lab File: BN034907.D
Acq: 08 Nov 2024 14:17

Tgt Ion:330 Resp: 576
Ion Ratio Lower Upper
330 100
332 94.3 77.1 115.7
141 66.1 54.1 81.1





#15

2-Fluorobiphenyl

Concen: 0.355 ng

RT: 12.829 min Scan# 11

Delta R.T. -0.004 min

Lab File: BN034907.D

Acq: 08 Nov 2024 14:17

Instrument :

BNA_N

ClientSampleId :

BP-BPOW6-8-GW-20241101

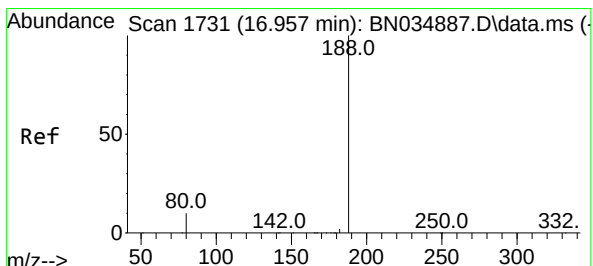
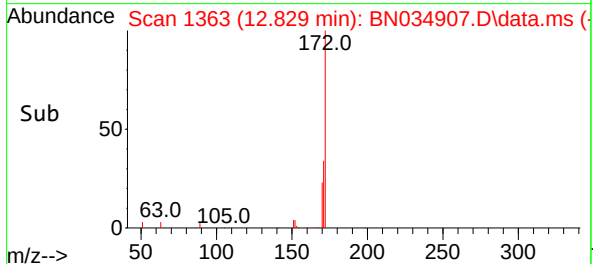
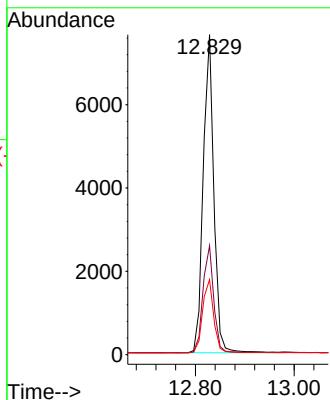
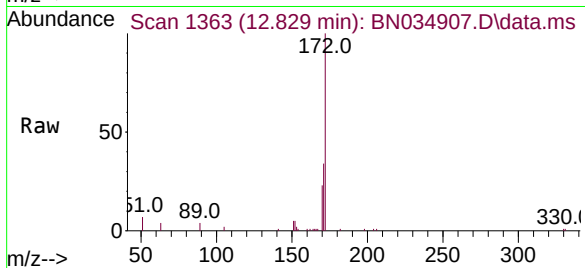
Tgt Ion:172 Resp: 11404

Ion Ratio Lower Upper

172 100

171 34.1 27.9 41.9

170 23.5 19.0 28.4



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.952 min Scan# 1730

Delta R.T. -0.005 min

Lab File: BN034907.D

Acq: 08 Nov 2024 14:17

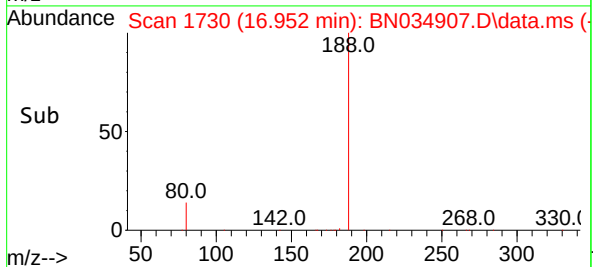
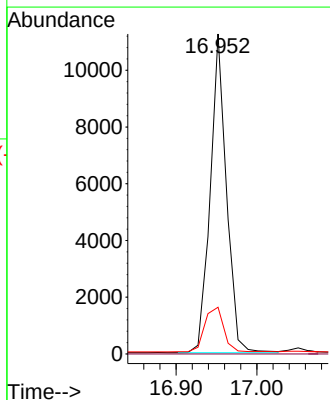
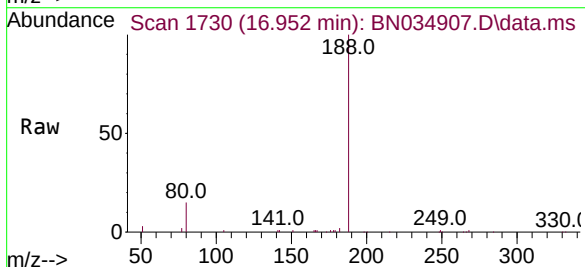
Tgt Ion:188 Resp: 15639

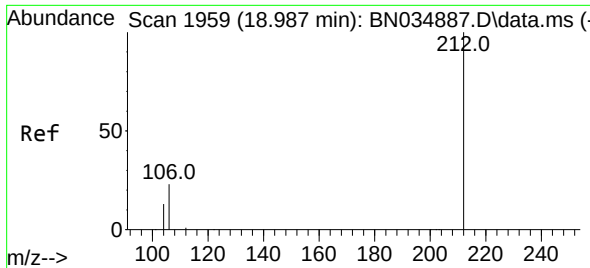
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.6 8.6 12.8#

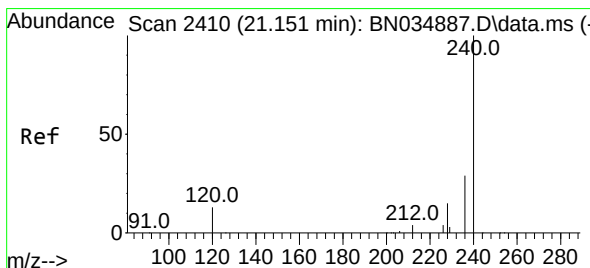
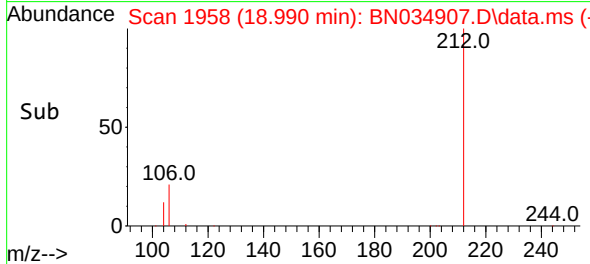
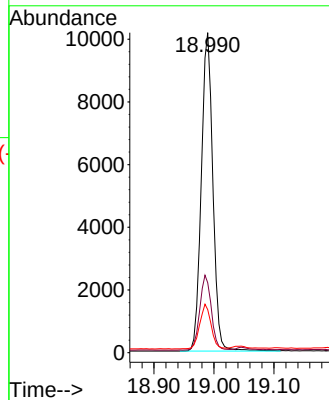
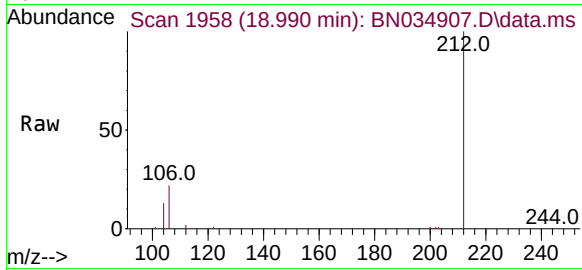




#27
Fluoranthene-d10
Concen: 0.385 ng
RT: 18.990 min Scan# 1958
Delta R.T. 0.002 min
Lab File: BN034907.D
Acq: 08 Nov 2024 14:17

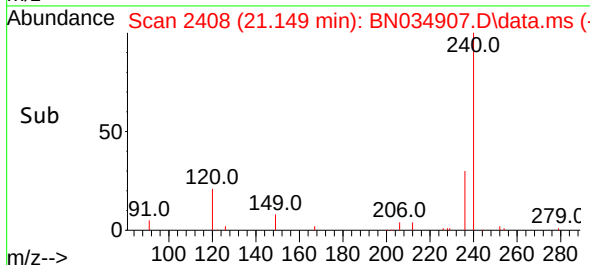
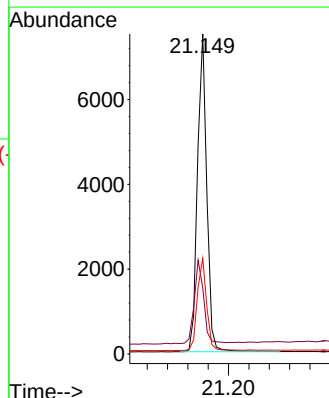
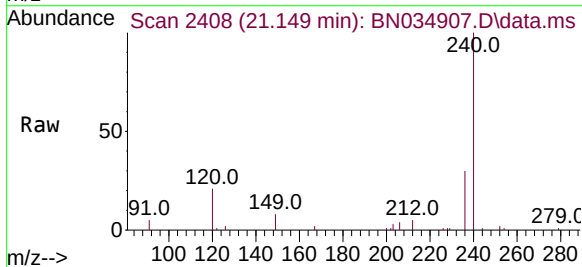
Instrument :
BNA_N
ClientSampleId :
BP-BPOW6-8-GW-20241101

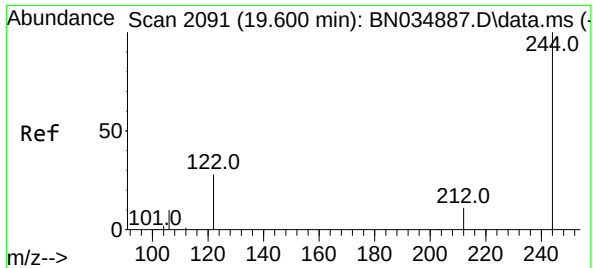
Tgt Ion	Ratio	Lower	Upper
212	100		
106	23.4	18.2	27.4
104	13.7	10.6	15.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.149 min Scan# 2408
Delta R.T. -0.002 min
Lab File: BN034907.D
Acq: 08 Nov 2024 14:17

Tgt Ion	Ratio	Lower	Upper
240	100		
120	20.7	13.8	20.8
236	29.9	23.8	35.6

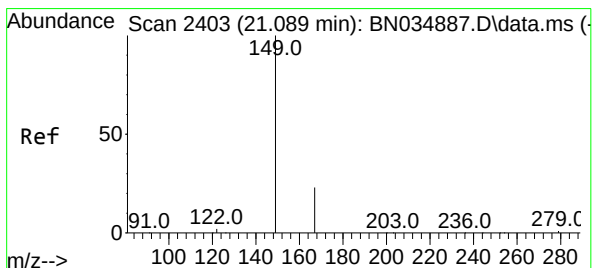
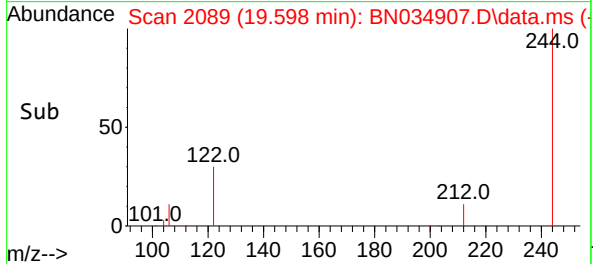
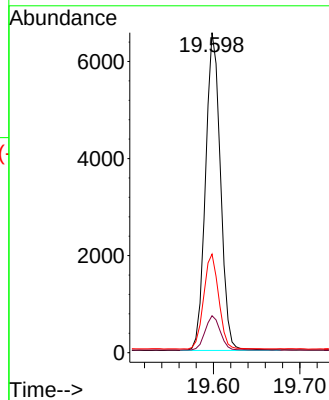
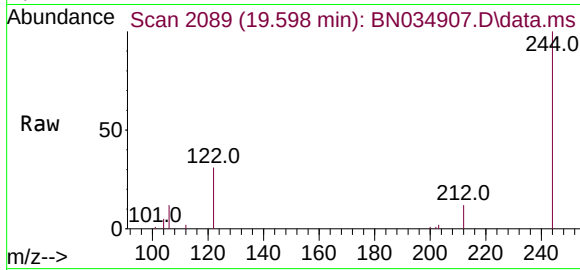




#31
 Terphenyl-d14
 Concen: 0.443 ng
 RT: 19.598 min Scan# 2091
 Delta R.T. -0.002 min
 Lab File: BN034907.D
 Acq: 08 Nov 2024 14:17

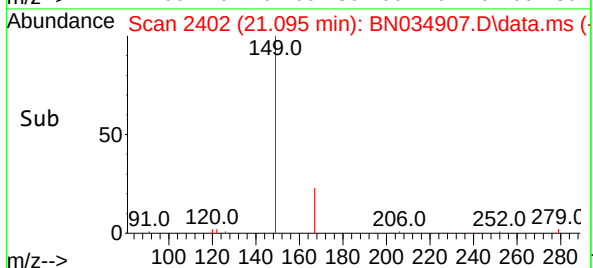
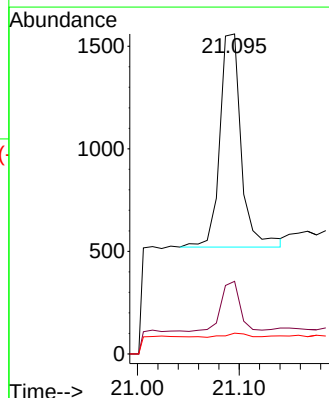
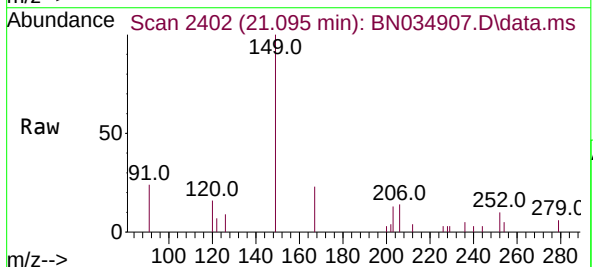
Instrument :
 BNA_N
 ClientSampleId :
 BP-BPOW6-8-GW-20241101

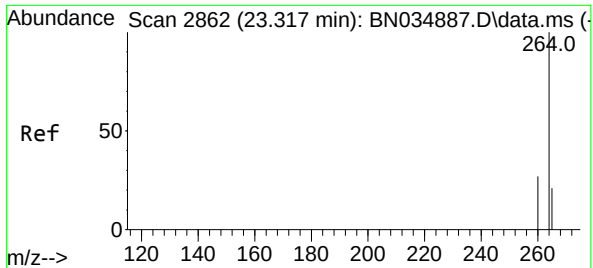
Tgt Ion:244	Resp:	7875
Ion Ratio	Lower	Upper
244	100	
212	11.5	9.4 14.0
122	30.8	23.0 34.4



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.072 ng
 RT: 21.095 min Scan# 2402
 Delta R.T. 0.006 min
 Lab File: BN034907.D
 Acq: 08 Nov 2024 14:17

Tgt Ion:149	Resp:	1521
Ion Ratio	Lower	Upper
149	100	
167	20.4	18.1 27.1
279	2.0	1.2 1.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.318 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN034907.D

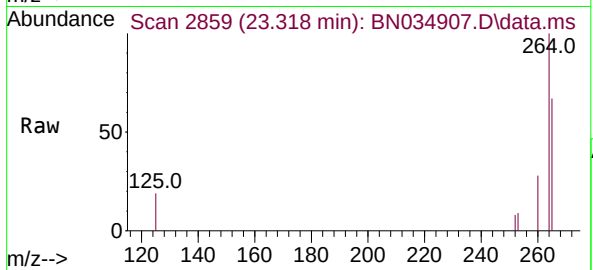
Acq: 08 Nov 2024 14:17

Instrument :

BNA_N

ClientSampleId :

BP-BPOW6-8-GW-20241101



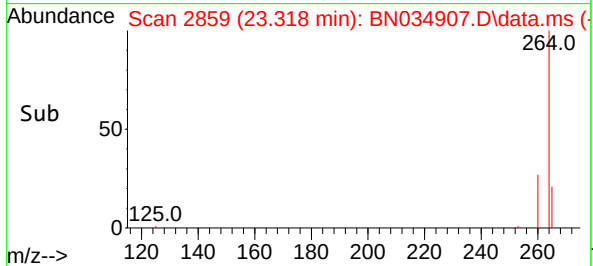
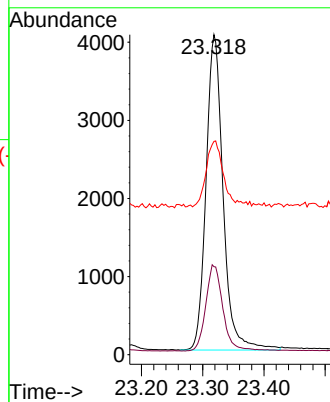
Tgt Ion:264 Resp: 7807

Ion	Ratio	Lower	Upper

264	100		

260	27.5	22.2	33.2

265	66.7	60.9	91.3





CALIBRATION SUMMARY

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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
 Lab Code: CHEM Case No.: P4710 SAS No.: P4710 SDG No.: P4710
 Instrument ID: BNA_N Calibration Date(s): 11/07/2024 11/07/2024
 Calibration Time(s): 10:02 13:49

LAB FILE ID:		RRF0.1 = BN034885.D		RRF0.2 = BN034886.D		RRF0.4 = BN034887.D		
		RRF0.8 = BN034888.D		RRF1.6 = BN034889.D		RRF3.2 = BN034890.D		
COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.527	0.519	0.491	0.579	0.577	0.548	0.545	6.3
Fluoranthene-d10	0.801	0.845	0.801	0.971	0.976	0.947	0.902	9.2
2-Fluorophenol	1.137	1.131	1.007	1.180	1.146	1.082	1.115	5.0
Phenol-d6	1.438	1.439	1.299	1.582	1.550	1.495	1.480	6.6
Nitrobenzene-d5	0.314	0.301	0.280	0.327	0.324	0.313	0.312	5.4
2-Fluorobiphenyl	1.753	1.737	1.540	1.788	1.747	1.620	1.690	5.3
2,4,6-Tribromophenol	0.083	0.094	0.087	0.121	0.129	0.142	0.118	26.5
Terphenyl-d14	0.788	0.750	0.743	0.777	0.750	0.715	0.749	3.5
1,4-Dioxane	0.563	0.562	0.474	0.530	0.498	0.470	0.505	9.4

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN110724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 07 15:02:36 2024
Response Via : Initial Calibration

Calibration Files

0.1 =BN034885.D 0.2 =BN034886.D 0.4 =BN034887.D 0.8 =BN034888.D 1.6 =BN034889.D 3.2 =BN034890.D 5.0 =BN034891.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	0.563	0.562	0.474	0.530	0.498	0.470	0.441	0.505	9.43
3)	n-Nitrosodimet...	0.697	0.715	0.621	0.753	0.712	0.643	0.632	0.682	7.32
4) S	2-Fluorophenol	1.137	1.131	1.007	1.180	1.146	1.082	1.120	1.115	5.00
5) S	Phenol-d6	1.438	1.439	1.299	1.582	1.550	1.495	1.557	1.480	6.62
6)	bis(2-Chloroet...	1.316	1.267	1.170	1.389	1.336	1.230	1.230	1.277	5.84
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.314	0.301	0.280	0.327	0.324	0.313	0.324	0.312	5.36
9)	Naphthalene	1.110	1.086	1.028	1.181	1.166	1.089	1.111	1.110	4.63
10)	Hexachlorobuta...	0.183	0.180	0.167	0.189	0.182	0.168	0.169	0.177	4.89
11) SURR2	Methylnaphth...	0.527	0.519	0.491	0.579	0.577	0.548	0.575	0.545	6.30
12)	2-Methylnaphth...	0.647	0.641	0.612	0.725	0.723	0.691	0.717	0.679	6.76
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.083	0.094	0.087	0.121	0.129	0.142	0.167	0.118	26.52
15) S	2-Fluorobiphenyl	1.753	1.737	1.540	1.788	1.747	1.620	1.642	1.690	5.32
16)	Acenaphthylene	1.833	1.826	1.672	2.034	2.040	2.003	2.097	1.929	8.00
17)	Acenaphthene	1.292	1.281	1.176	1.430	1.412	1.352	1.403	1.335	6.83
18)	Fluorene	1.614	1.600	1.463	1.774	1.779	1.680	1.727	1.662	6.78
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.033	0.032	0.040	0.044	0.052	0.062	0.044		26.24
21)	4-Bromophenyl-...	0.212	0.201	0.202	0.220	0.219	0.216	0.222	0.213	4.05
22)	Hexachlorobenzene	0.262	0.255	0.252	0.268	0.260	0.252	0.248	0.257	2.61
23)	Atrazine	0.128	0.136	0.133	0.162	0.169	0.173	0.180	0.154	13.84
24)	Pentachlorophenol	0.055	0.055	0.074	0.079	0.092	0.107	0.077		26.61
25)	Phenanthrene	1.218	1.168	1.162	1.303	1.276	1.239	1.221	1.227	4.22
26)	Anthracene	0.965	0.963	0.963	1.121	1.116	1.119	1.156	1.058	8.39
27) SURR	Fluoranthene-d10	0.801	0.845	0.801	0.971	0.976	0.947	0.972	0.902	9.15
28)	Fluoranthene	1.112	1.183	1.135	1.414	1.418	1.385	1.391	1.291	10.85
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	2.180	2.005	1.990	2.107	2.033	1.945	1.916	2.025	4.53
31) S	Terphenyl-d14	0.788	0.750	0.743	0.777	0.750	0.715	0.722	0.749	3.54
32)	Benzo(a)anthra...	1.450	1.472	1.423	1.663	1.663	1.622	1.622	1.559	6.80
33)	Chrysene	1.632	1.632	1.583	1.768	1.709	1.625	1.601	1.650	3.95
34)	Bis(2-ethylhex...	0.984	0.873	0.720	0.881	0.838	0.922	1.048	0.895	11.77
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN110724.M

36)	Indeno(1,2,3-c...	1.810	1.753	1.680	1.845	1.868	1.733	1.785	1.782	3.68
37)	Benzo(b)fluora...	1.685	1.601	1.752	1.900	1.814	1.765	1.784	1.757	5.40
38)	Benzo(k)fluora...	1.763	1.746	1.724	1.982	1.931	1.812	1.835	1.828	5.30
39) C	Benzo(a)pyrene	1.308	1.249	1.339	1.475	1.469	1.438	1.492	1.396	6.85
40)	Dibenzo(a,h)an...	1.389	1.356	1.304	1.423	1.447	1.347	1.386	1.379	3.48
41)	Benzo(g,h,i)pe...	1.482	1.434	1.483	1.485	1.509	1.407	1.445	1.464	2.44

(#) = Out of Range

Pentachlorophenol



Coef of Det (r^2) = 0.999884 Curve Fit: Quadratic

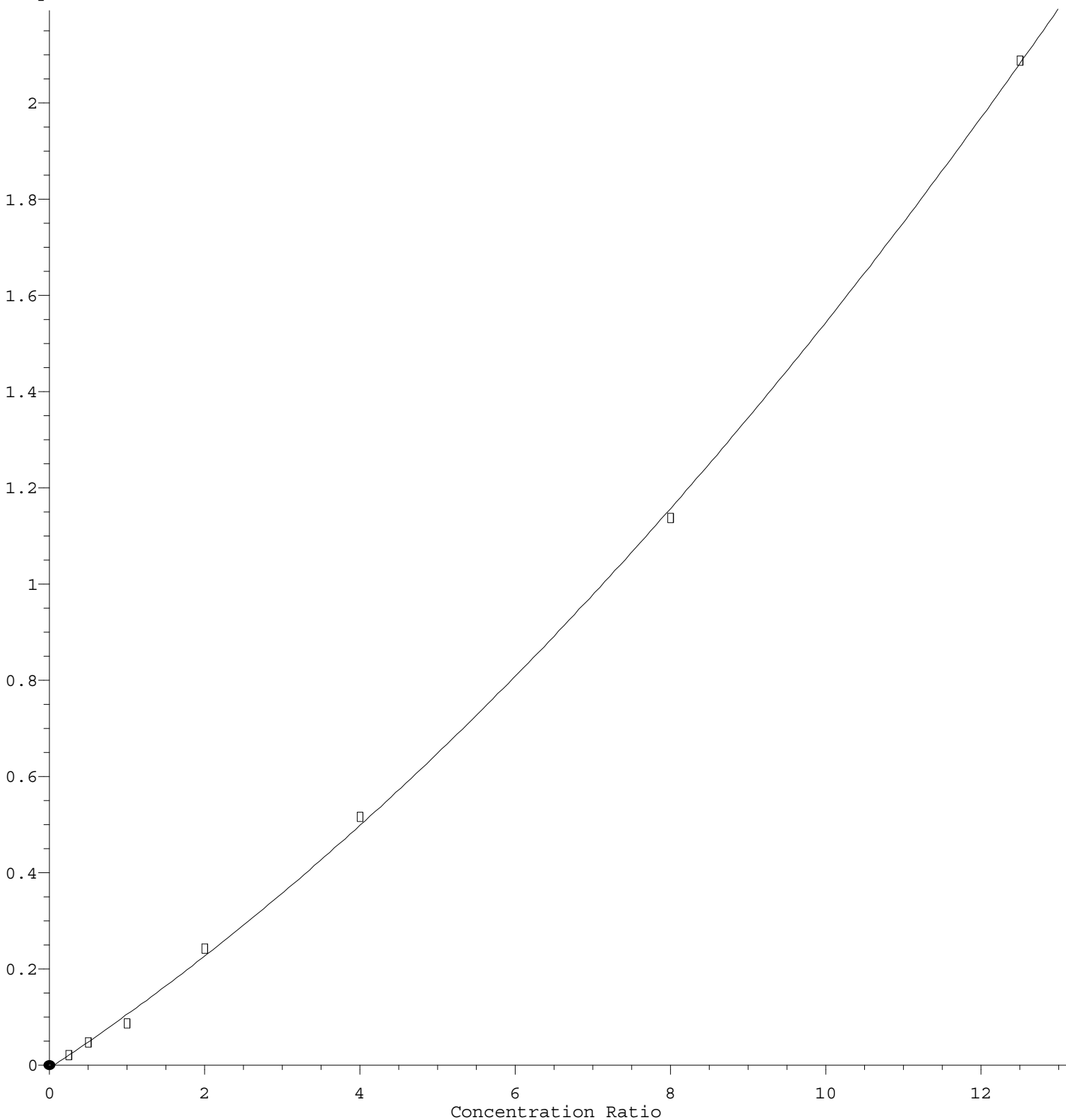
Calibration Table Last Updated: Thu Nov 07 15:02:36 2024

Response Ratio



61 of 535

Response Ratio



- 1
- 2
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R = 4.810e-003 A*A + 1.069e-001 A - 6.391e-003
Coef of Det (r^2) = 0.999627 Curve Fit: Quadratic
Method: NPLS-2-SIM Group
Path: C:\Program Files\HPCHEM1\BNA N\Methods\8270-SIM-BN110724.M
Calibration Table Last Updated: Thu Nov 07 15:02:36 2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
 Data File : BN034885.D
 Acq On : 07 Nov 2024 10:02
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Nov 07 14:39:35 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 07 14:34:20 2024
 Response via : Initial Calibration

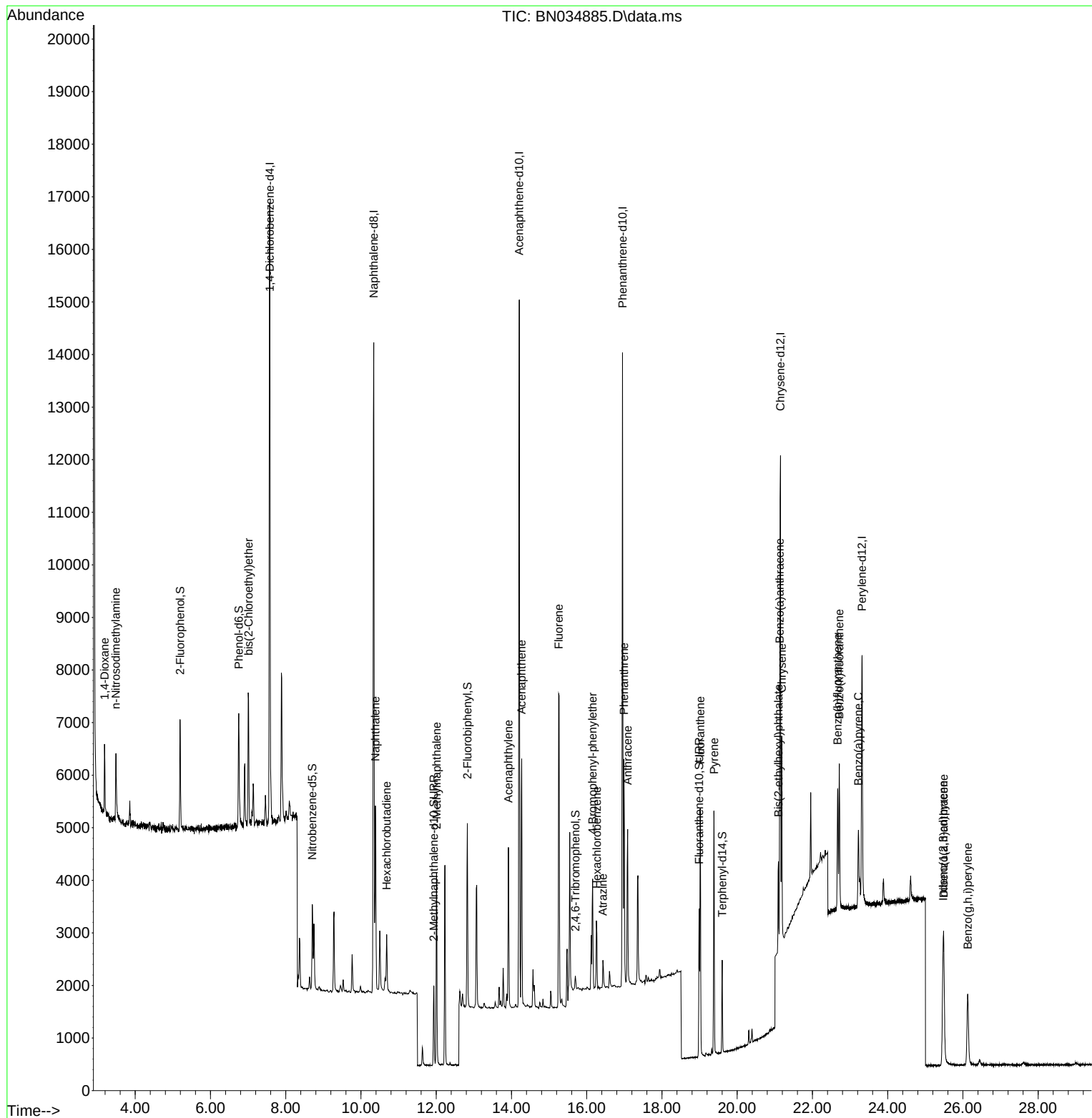
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	5582	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	16157	0.400	ng	0.00
13) Acenaphthene-d10	14.208	164	7091	0.400	ng	0.00
19) Phenanthrene-d10	16.952	188	14302	0.400	ng	# 0.00
29) Chrysene-d12	21.149	240	7364	0.400	ng	0.00
35) Perylene-d12	23.318	264	6365	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.192	112	1587	0.102	ng	0.00
5) Phenol-d6	6.752	99	2007	0.097	ng	0.00
8) Nitrobenzene-d5	8.707	82	1268	0.101	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	2127	0.097	ng	0.00
14) 2,4,6-Tribromophenol	15.698	330	148	0.101	ng	0.00
15) 2-Fluorobiphenyl	12.829	172	3107	0.104	ng	0.00
27) Fluoranthene-d10	18.990	212	2865	0.089	ng	0.00
31) Terphenyl-d14	19.603	244	1450	0.105	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.184	88	786	0.111	ng	96
3) n-Nitrosodimethylamine	3.487	42	973	0.102	ng	96
6) bis(2-Chloroethyl)ether	7.012	93	1836	0.103	ng	99
9) Naphthalene	10.383	128	4482	0.100	ng	97
10) Hexachlorobutadiene	10.682	225	738	0.103	ng	# 100
12) 2-Methylnaphthalene	12.011	142	2614	0.095	ng	98
16) Acenaphthylene	13.919	152	3250	0.095	ng	99
17) Acenaphthene	14.272	154	2291	0.097	ng	98
18) Fluorene	15.255	166	2861	0.097	ng	99
21) 4-Bromophenyl-phenylether	16.158	248	759	0.100	ng	# 84
22) Hexachlorobenzene	16.269	284	936	0.102	ng	98
23) Atrazine	16.431	200	457	0.083	ng	# 85
25) Phenanthrene	16.989	178	4356	0.099	ng	99
26) Anthracene	17.088	178	3451	0.091	ng	99
28) Fluoranthene	19.018	202	3977	0.086	ng	100
30) Pyrene	19.385	202	4013	0.108	ng	99
32) Benzo(a)anthracene	21.131	228	2670	0.093	ng	97
33) Chrysene	21.185	228	3005	0.099	ng	96
34) Bis(2-ethylhexyl)phtha...	21.095	149	1811	0.110	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.473	276	2880	0.102	ng	98
37) Benzo(b)fluoranthene	22.672	252	2681	0.096	ng	# 62
38) Benzo(k)fluoranthene	22.713	252	2806	0.096	ng	# 56
39) Benzo(a)pyrene	23.222	252	2082	0.094	ng	# 50
40) Dibenzo(a,h)anthracene	25.491	278	2210	0.101	ng	# 84
41) Benzo(g,h,i)perylene	26.128	276	2359	0.101	ng	91

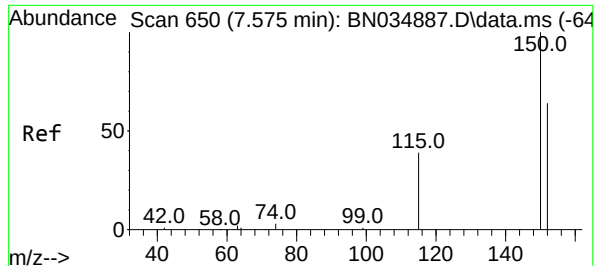
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
Data File : BN034885.D
Acq On : 07 Nov 2024 10:02
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 07 14:39:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 14:34:20 2024
Response via : Initial Calibration

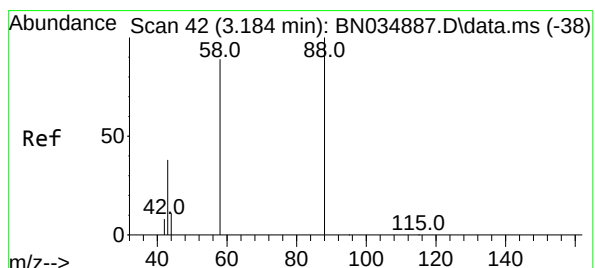
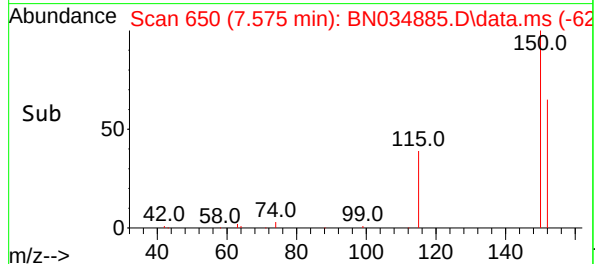
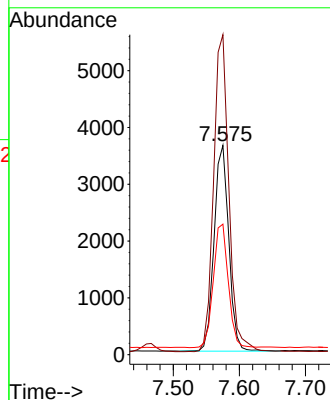
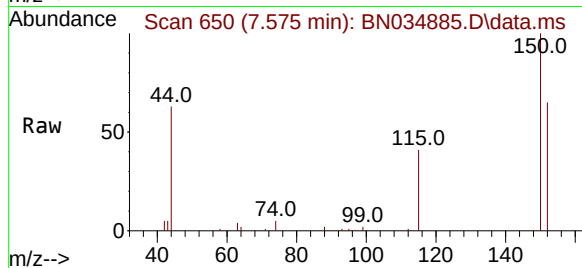




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

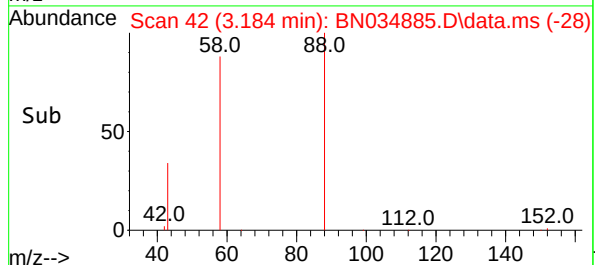
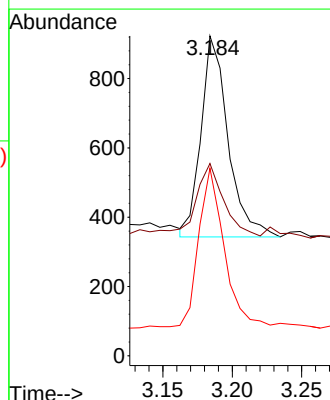
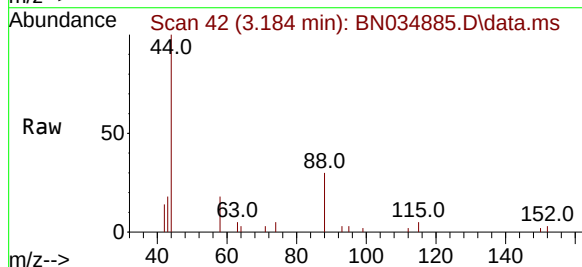
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

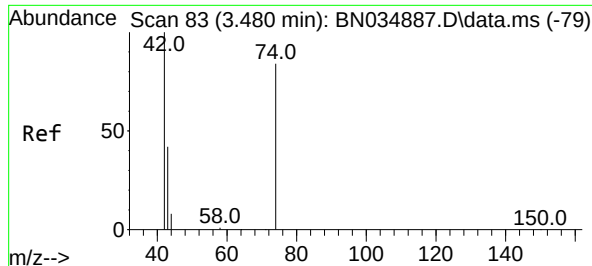
Tgt Ion:152 Resp: 5582
Ion Ratio Lower Upper
152 100
150 152.9 124.4 186.6
115 62.4 50.5 75.7



#2
1,4-Dioxane
Concen: 0.111 ng
RT: 3.184 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

Tgt Ion: 88 Resp: 786
Ion Ratio Lower Upper
88 100
43 35.5 28.2 42.2
58 78.8 67.1 100.7

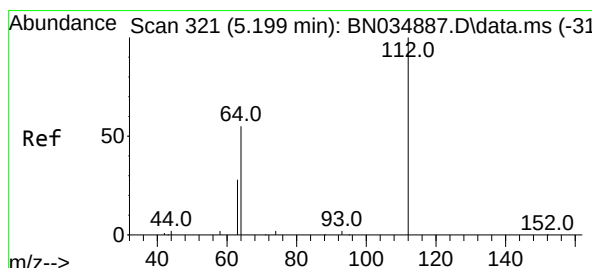
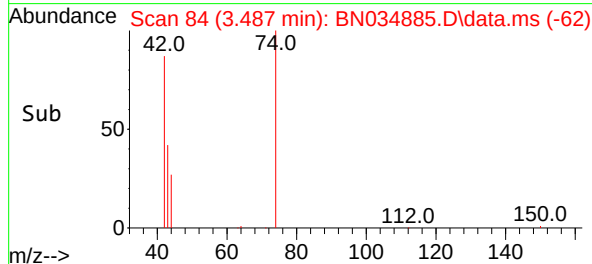
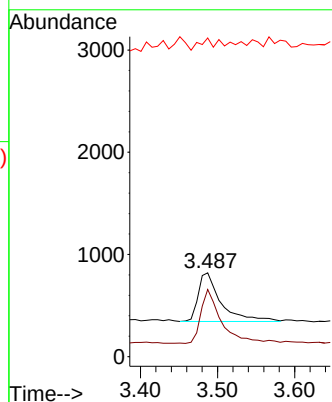
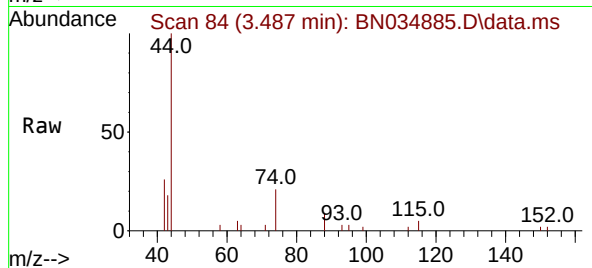




#3
n-Nitrosodimethylamine
Concen: 0.102 ng
RT: 3.487 min Scan# 84
Delta R.T. 0.007 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

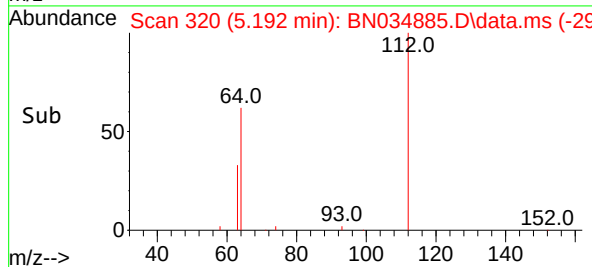
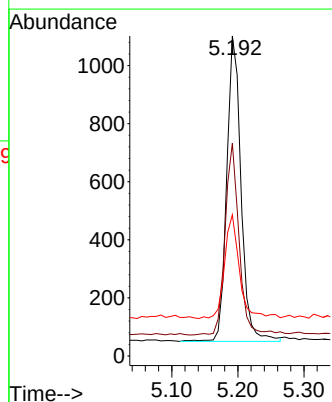
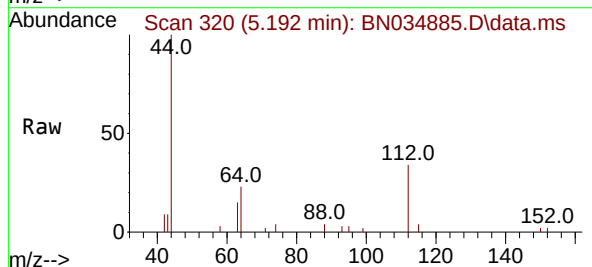
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

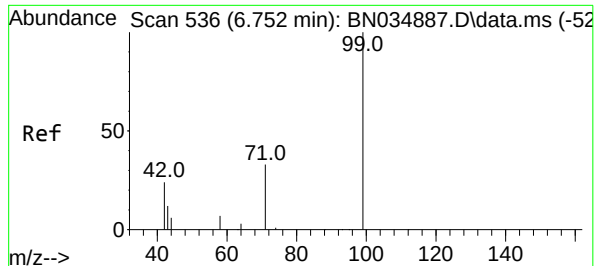
Tgt Ion: 42 Resp: 973
Ion Ratio Lower Upper
42 100
74 100.3 83.4 125.2
44 12.5 8.6 12.8



#4
2-Fluorophenol
Concen: 0.102 ng
RT: 5.192 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

Tgt Ion: 112 Resp: 1587
Ion Ratio Lower Upper
112 100
64 61.9 49.6 74.4
63 35.4 26.3 39.5

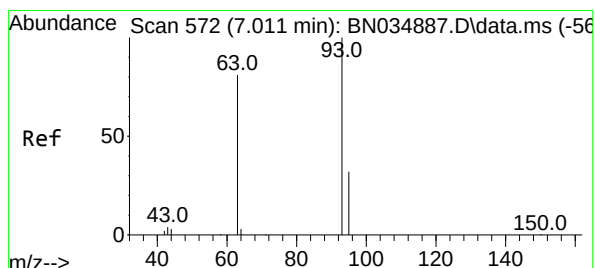
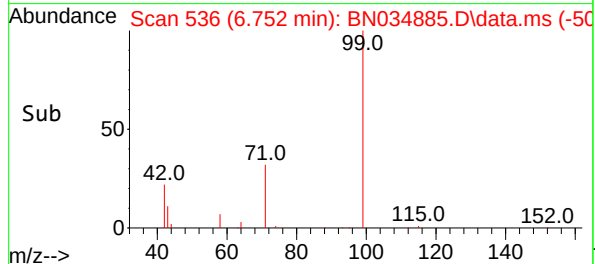
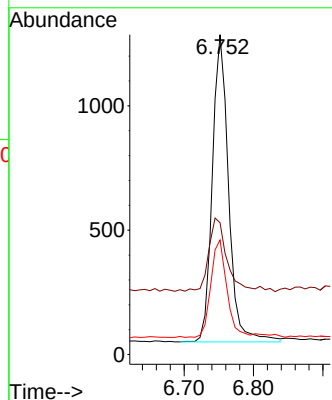
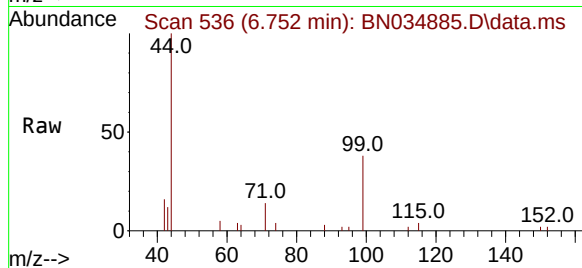




#5
Phenol-d6
Concen: 0.097 ng
RT: 6.752 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

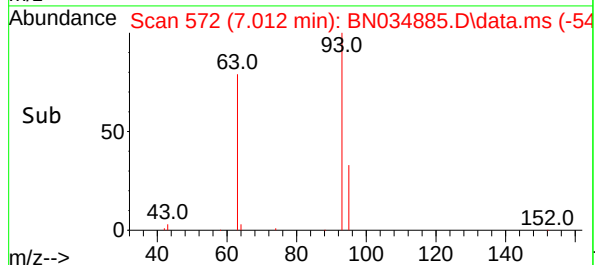
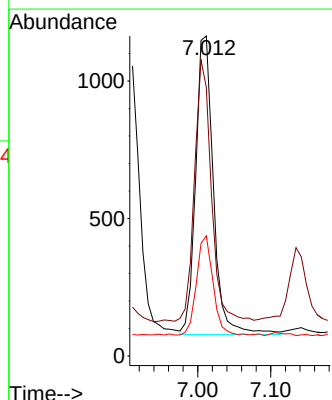
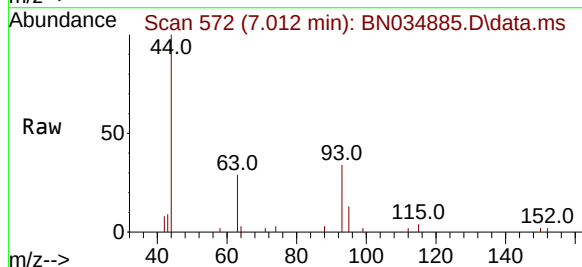
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

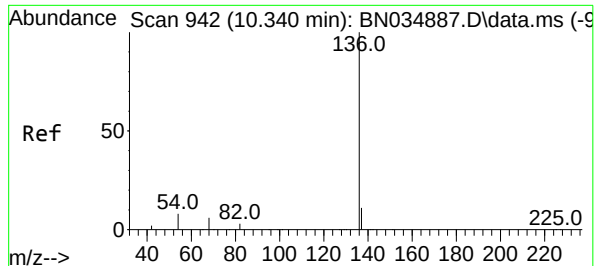
Tgt Ion:	99	Resp:	2007
Ion	Ratio	Lower	Upper
99	100		
42	26.3	20.2	30.2
71	31.2	25.4	38.0



#6
bis(2-Chloroethyl)ether
Concen: 0.103 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

Tgt Ion:	93	Resp:	1836
Ion	Ratio	Lower	Upper
93	100		
63	83.0	67.5	101.3
95	31.6	25.7	38.5

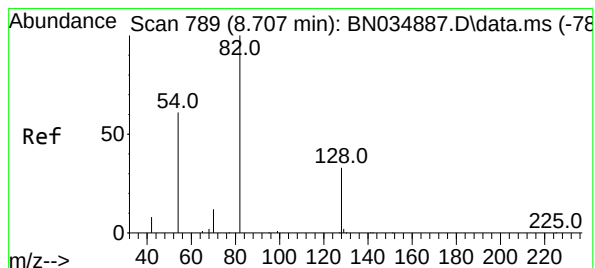
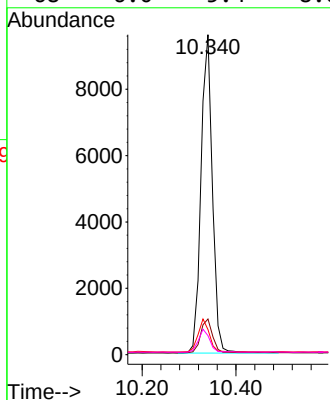
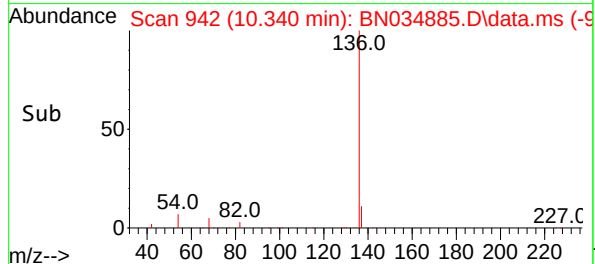
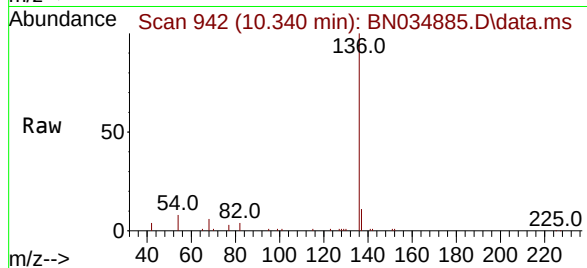




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

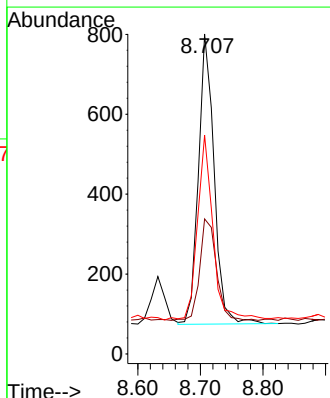
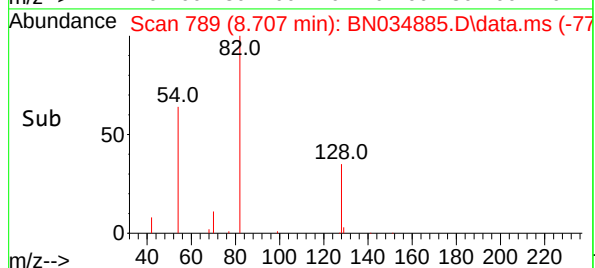
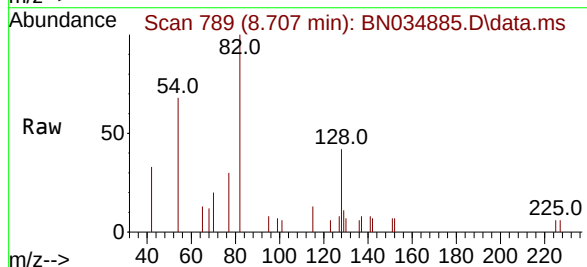
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

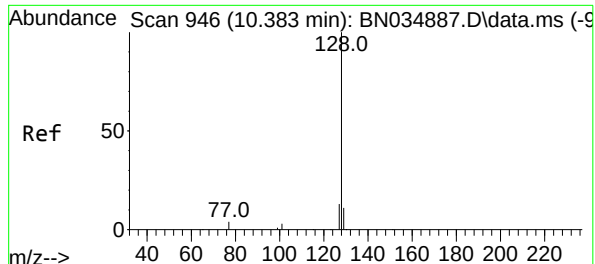
Tgt Ion:	136	Resp:	16157
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	7.8	6.9	10.3
68	6.0	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.101 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

Tgt Ion:	82	Resp:	1268
Ion Ratio	Lower	Upper	
82	100		
128	42.2	28.1	42.1#
54	68.4	49.8	74.6

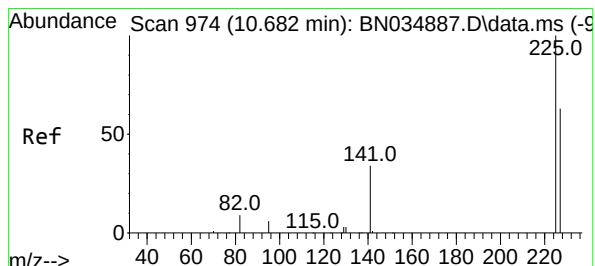
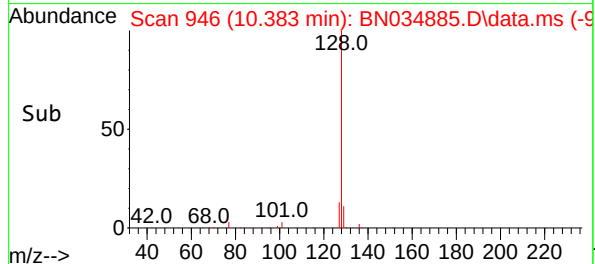
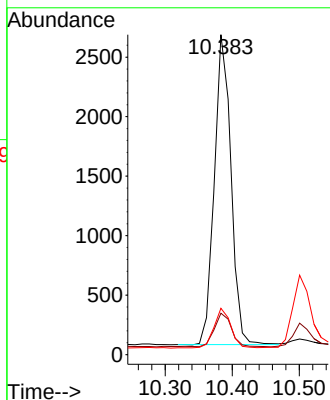
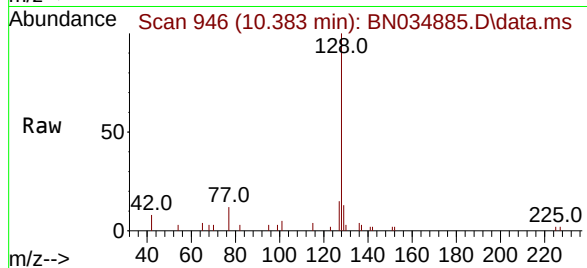




#9
Naphthalene
Concen: 0.100 ng
RT: 10.383 min Scan# 946
Delta R.T. 0.000 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

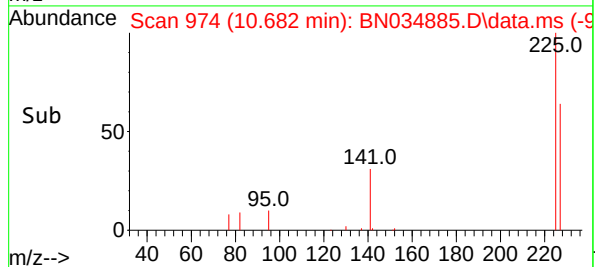
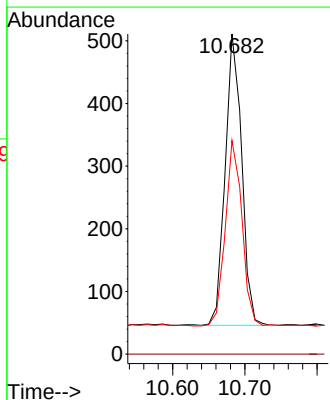
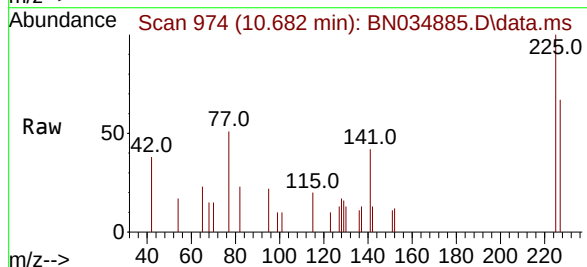
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

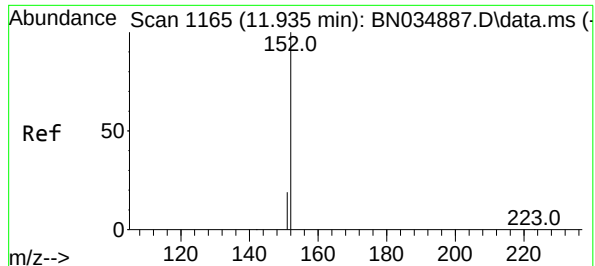
Tgt Ion:128 Resp: 4482
Ion Ratio Lower Upper
128 100
129 12.9 9.0 13.4
127 14.5 10.8 16.2



#10
Hexachlorobutadiene
Concen: 0.103 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

Tgt Ion:225 Resp: 738
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.0 52.0 78.0

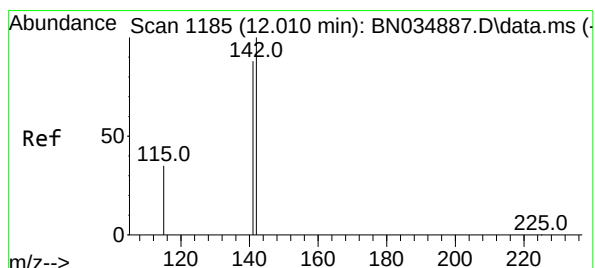
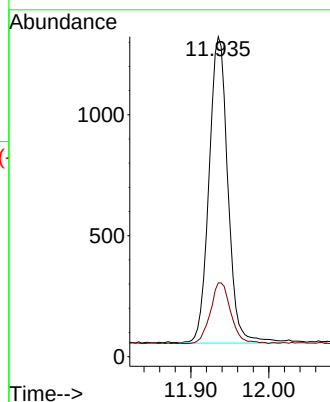
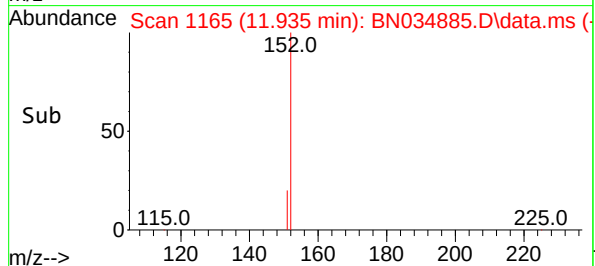
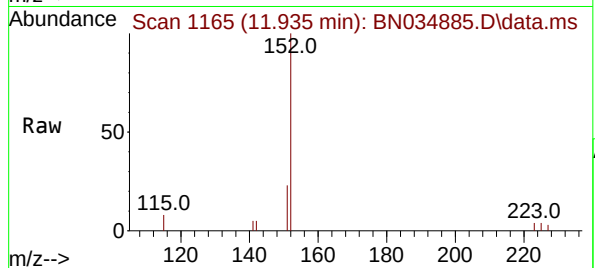




#11
2-Methylnaphthalene-d10
Concen: 0.097 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

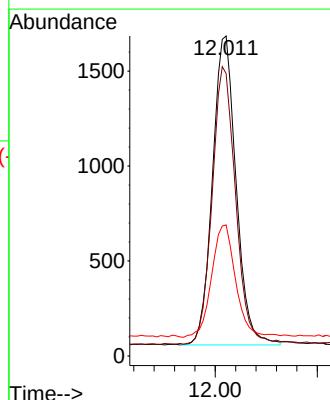
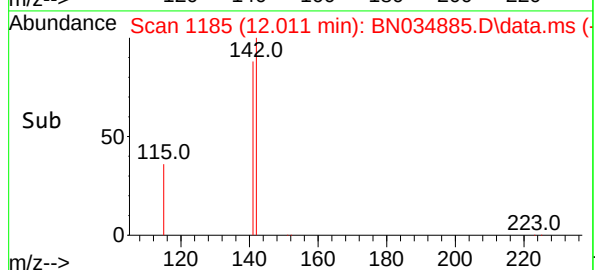
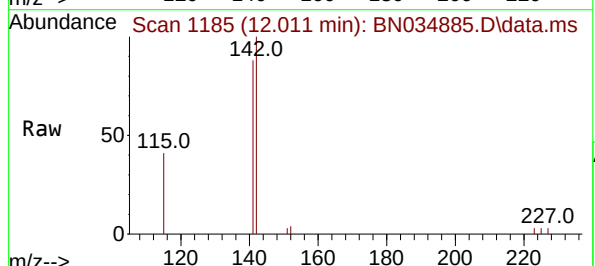
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

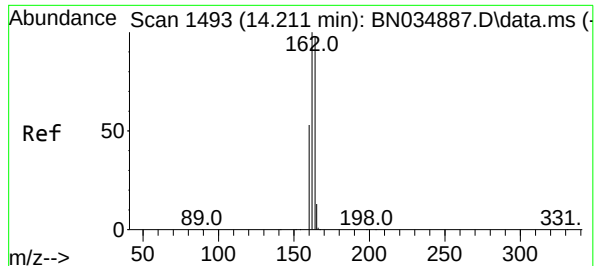
Tgt Ion:152 Resp: 2127
Ion Ratio Lower Upper
152 100
151 21.5 17.1 25.7



#12
2-Methylnaphthalene
Concen: 0.095 ng
RT: 12.011 min Scan# 1185
Delta R.T. 0.000 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

Tgt Ion:142 Resp: 2614
Ion Ratio Lower Upper
142 100
141 88.2 70.5 105.7
115 40.9 29.4 44.2

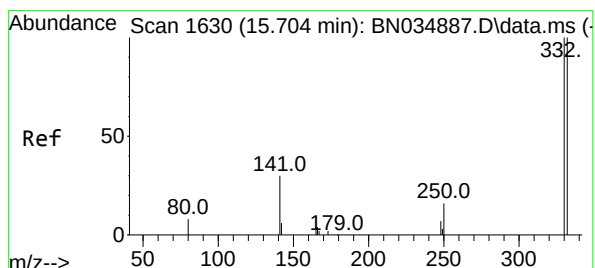
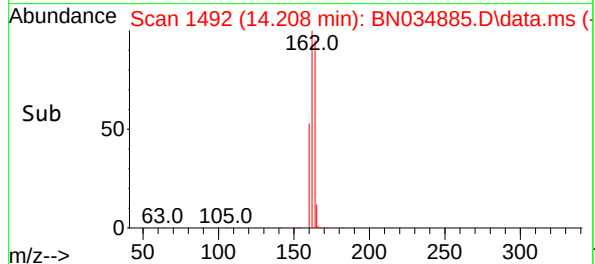
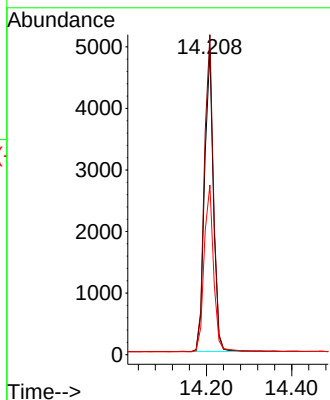
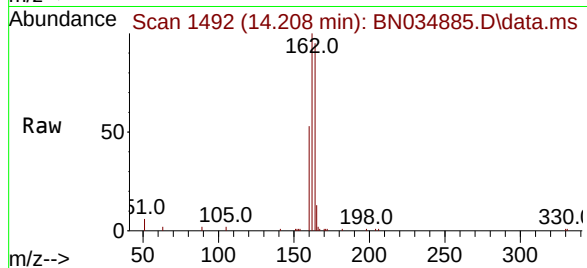




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.208 min Scan# 1492
Delta R.T. -0.003 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

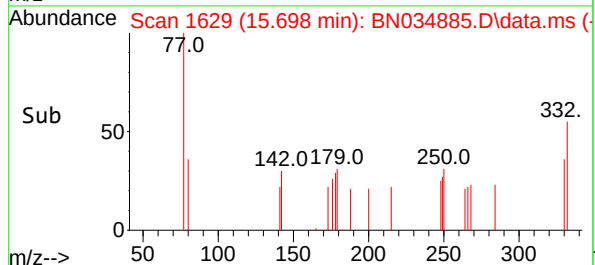
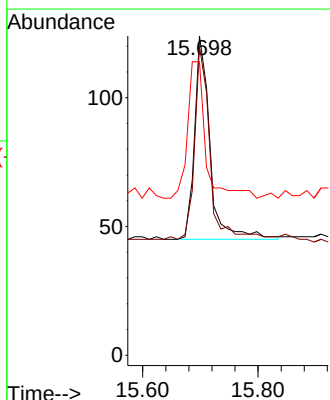
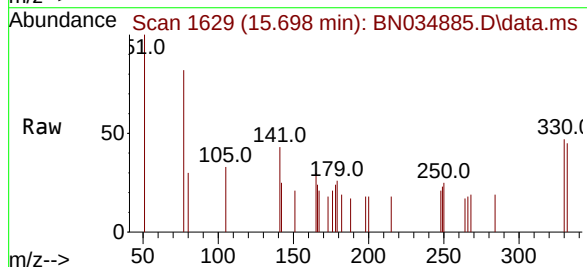
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

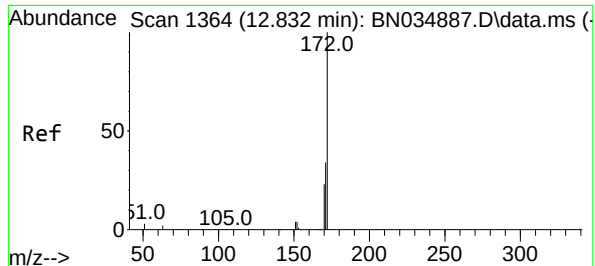
Tgt Ion:164 Resp: 7091
Ion Ratio Lower Upper
164 100
162 105.3 81.9 122.9
160 55.7 43.5 65.3



#14
2,4,6-Tribromophenol
Concen: 0.101 ng
RT: 15.698 min Scan# 1629
Delta R.T. -0.006 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

Tgt Ion:330 Resp: 148
Ion Ratio Lower Upper
330 100
332 91.9 77.1 115.7
141 77.7 54.1 81.1





#15

2-Fluorobiphenyl

Concen: 0.104 ng

RT: 12.829 min Scan# 11

Delta R.T. -0.004 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

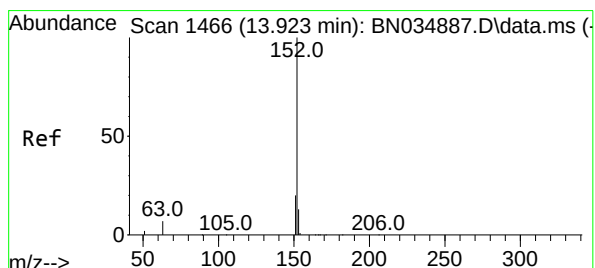
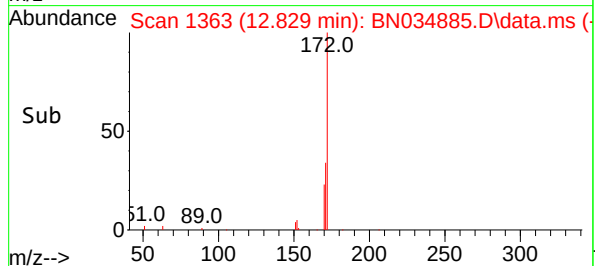
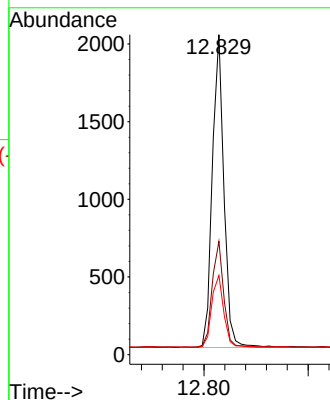
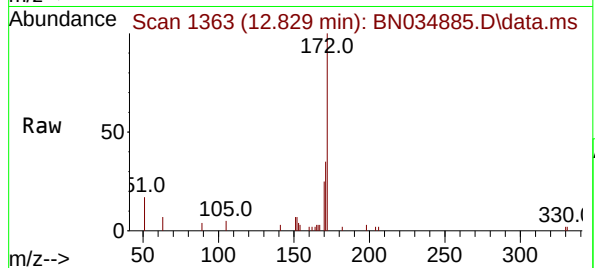
Tgt Ion:172 Resp: 3107

Ion Ratio Lower Upper

172 100

171 35.4 27.9 41.9

170 24.8 19.0 28.4



#16

Acenaphthylene

Concen: 0.095 ng

RT: 13.919 min Scan# 1465

Delta R.T. -0.004 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

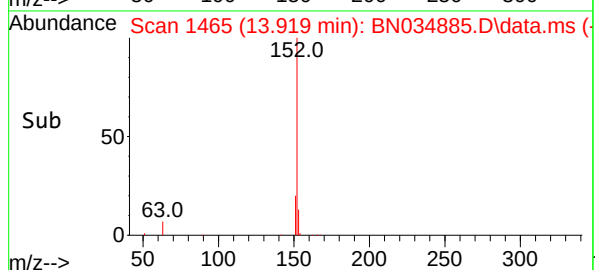
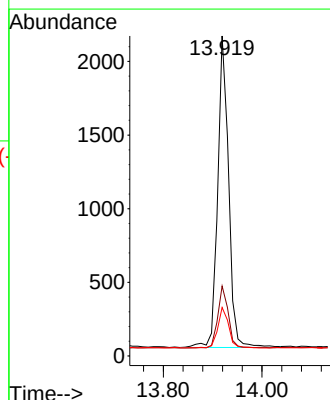
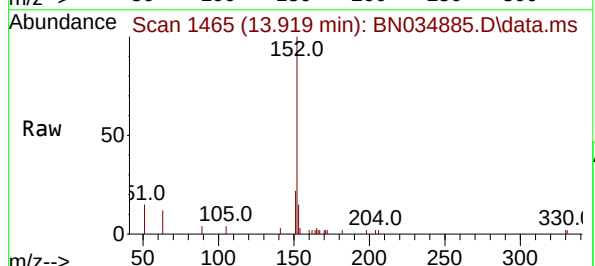
Tgt Ion:152 Resp: 3250

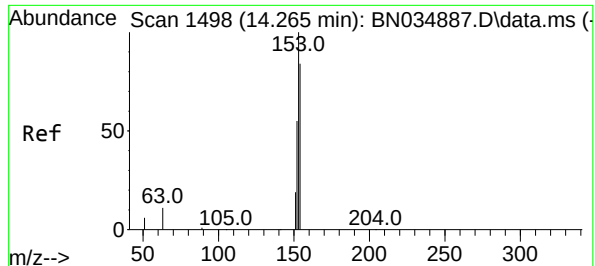
Ion Ratio Lower Upper

152 100

151 19.6 15.2 22.8

153 13.2 10.4 15.6





#17

Acenaphthene

Concen: 0.097 ng

RT: 14.272 min Scan# 1498

Delta R.T. 0.007 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

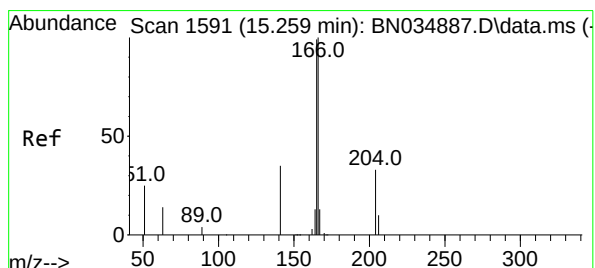
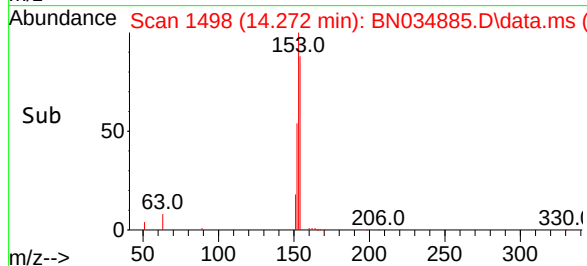
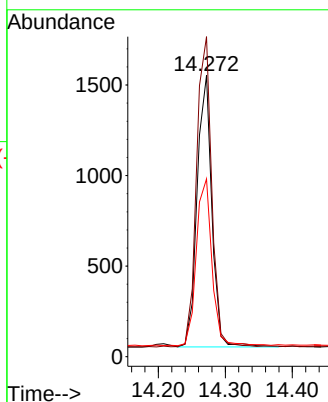
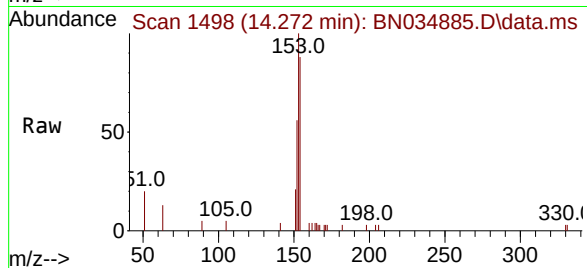
Tgt Ion:154 Resp: 2291

Ion Ratio Lower Upper

154 100

153 117.2 92.2 138.2

152 64.7 51.1 76.7



#18

Fluorene

Concen: 0.097 ng

RT: 15.255 min Scan# 1590

Delta R.T. -0.004 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

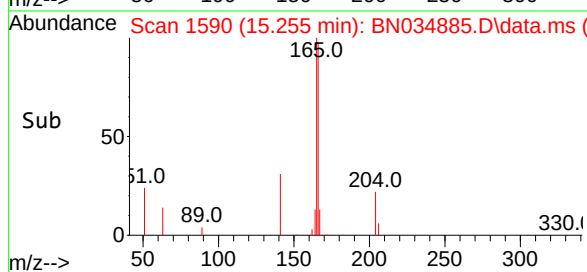
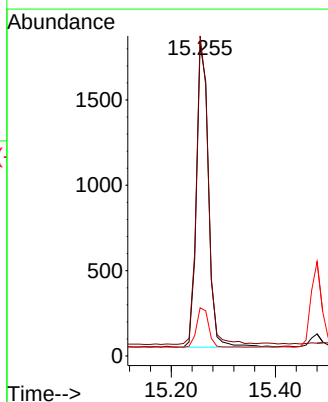
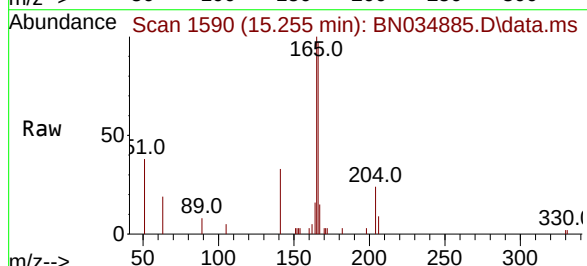
Tgt Ion:166 Resp: 2861

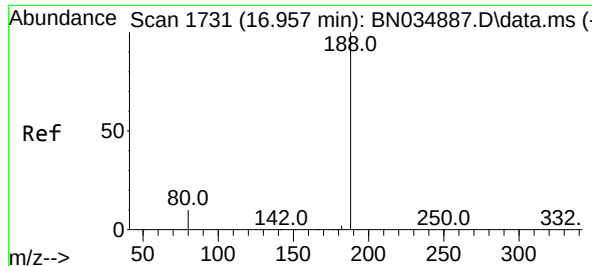
Ion Ratio Lower Upper

166 100

165 99.0 79.5 119.3

167 12.8 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.952 min Scan# 1

Delta R.T. -0.005 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

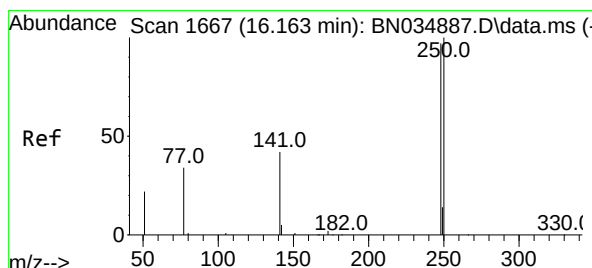
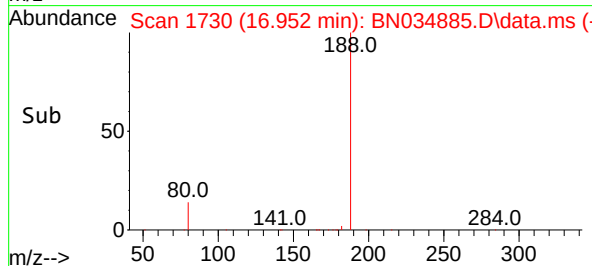
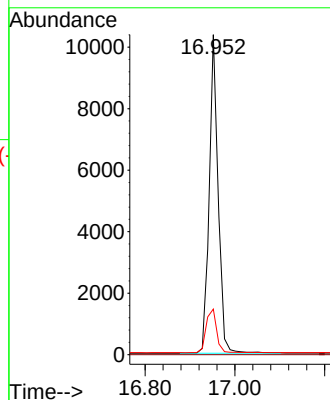
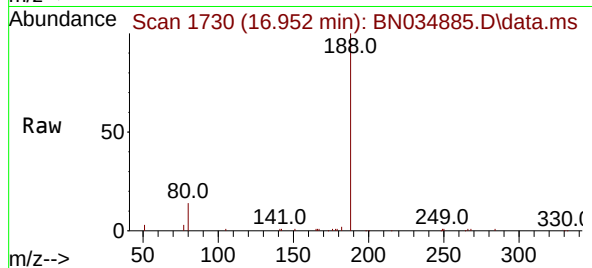
Tgt Ion:188 Resp: 14302

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.2 8.6 12.8#



#21

4-Bromophenyl-phenylether

Concen: 0.100 ng

RT: 16.158 min Scan# 1666

Delta R.T. -0.005 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

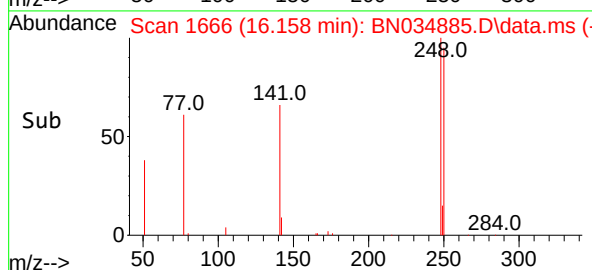
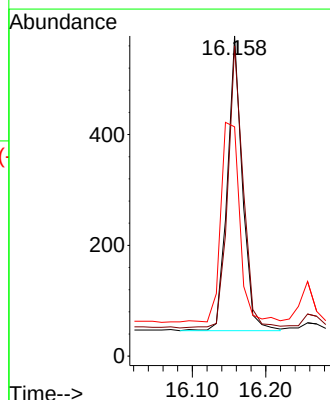
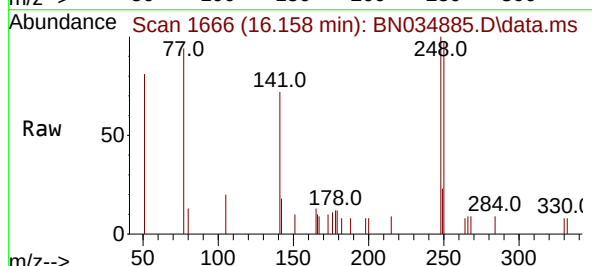
Tgt Ion:248 Resp: 759

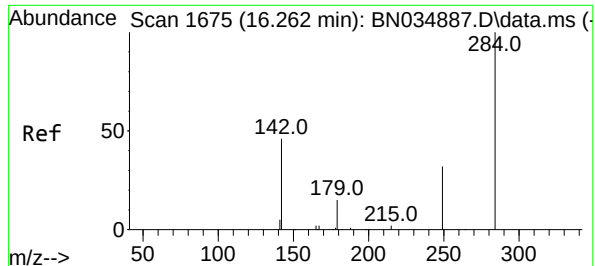
Ion Ratio Lower Upper

248 100

250 96.9 82.2 123.4

141 71.6 36.2 54.2#





#22

Hexachlorobenzene

Concen: 0.102 ng

RT: 16.269 min Scan# 1675

Delta R.T. 0.007 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

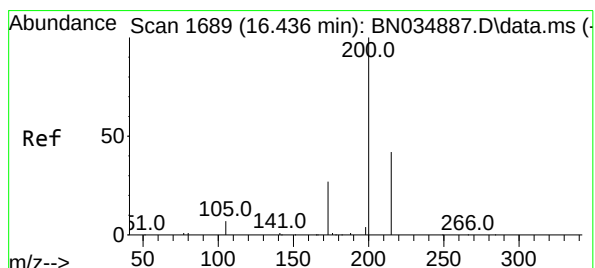
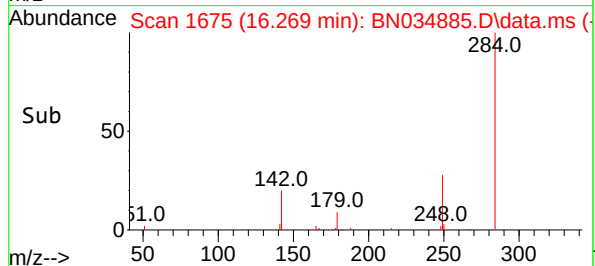
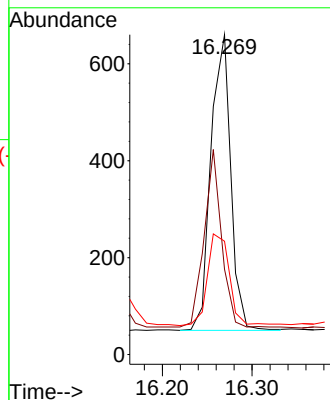
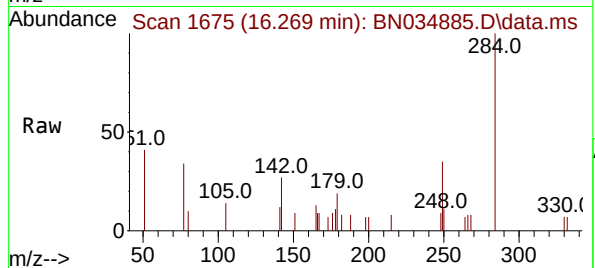
Tgt Ion:284 Resp: 936

Ion Ratio Lower Upper

284 100

142 54.4 43.4 65.2

249 35.0 25.8 38.6



#23

Atrazine

Concen: 0.083 ng

RT: 16.431 min Scan# 1688

Delta R.T. -0.005 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

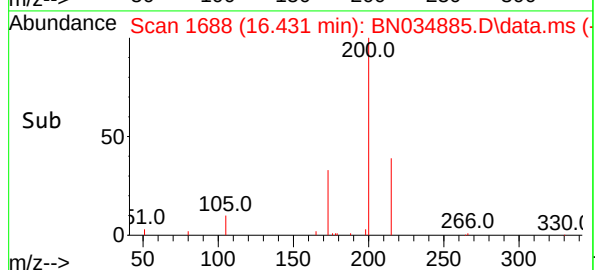
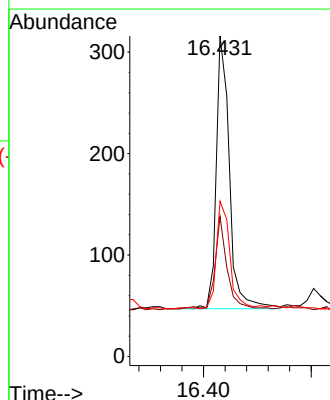
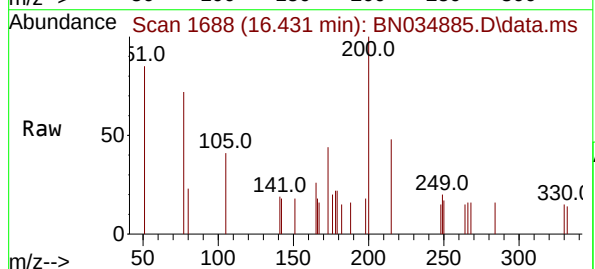
Tgt Ion:200 Resp: 457

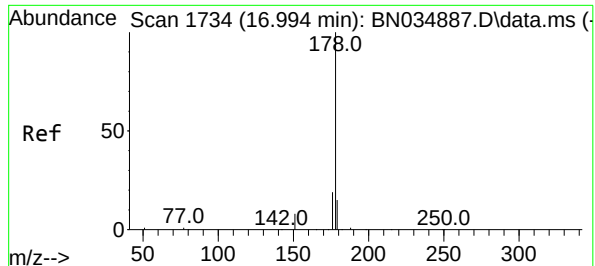
Ion Ratio Lower Upper

200 100

173 43.7 23.4 35.2#

215 48.4 35.4 53.0

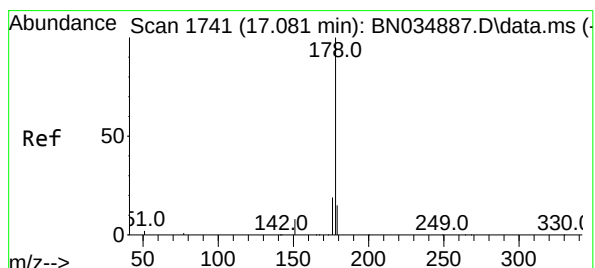
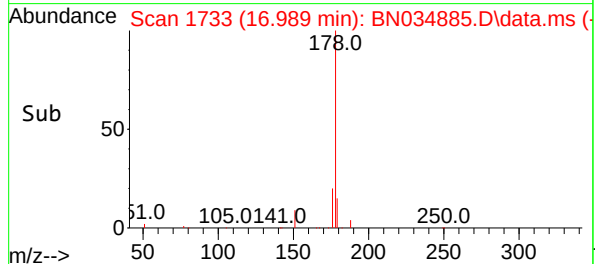
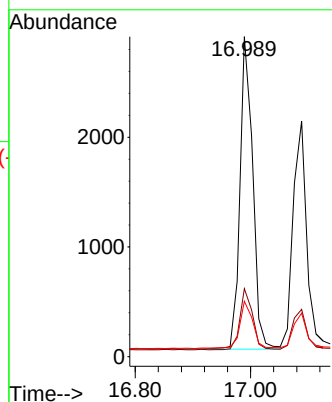
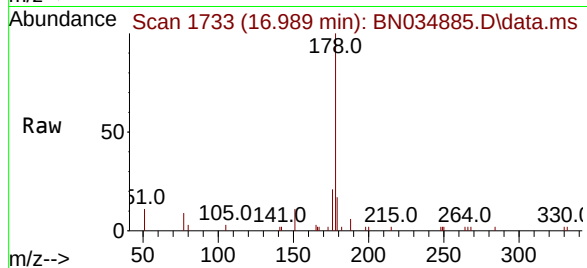




#25
Phenanthrene
Concen: 0.099 ng
RT: 16.989 min Scan# 1733
Delta R.T. -0.005 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

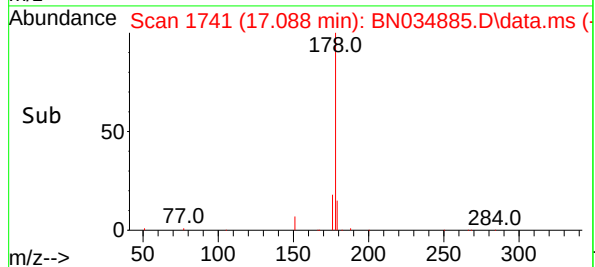
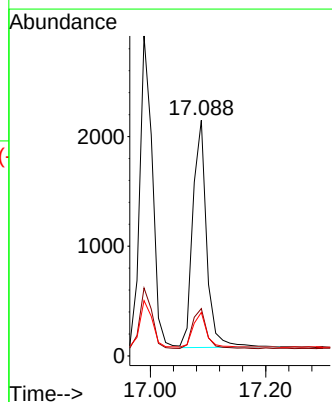
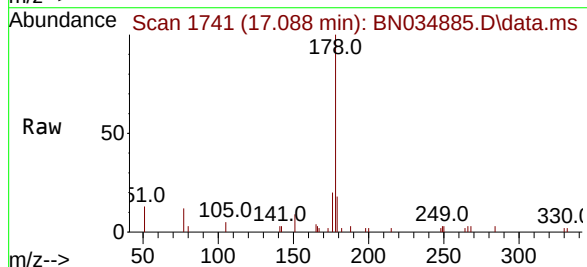
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

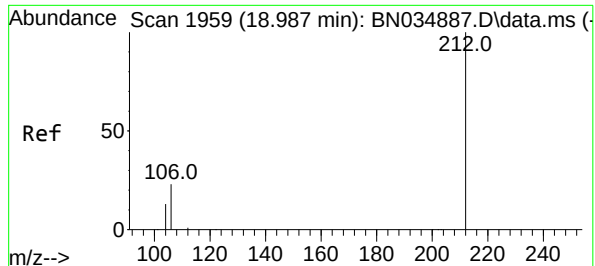
Tgt Ion:178 Resp: 4356
Ion Ratio Lower Upper
178 100
176 19.3 15.5 23.3
179 15.8 12.2 18.2



#26
Anthracene
Concen: 0.091 ng
RT: 17.088 min Scan# 1741
Delta R.T. 0.007 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

Tgt Ion:178 Resp: 3451
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.6
179 14.8 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.089 ng

RT: 18.990 min Scan# 1958

Delta R.T. 0.002 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

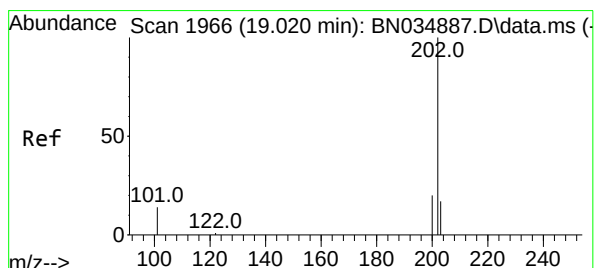
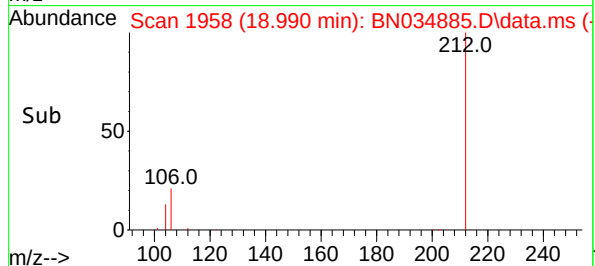
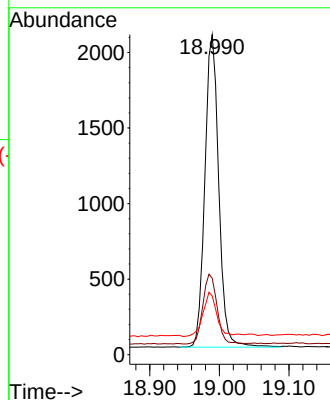
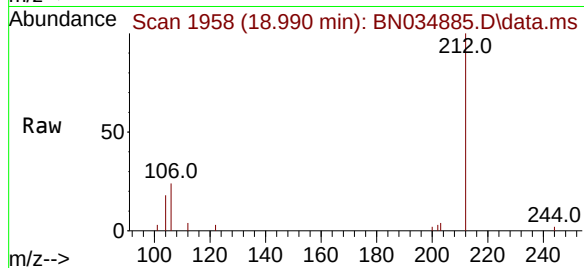
Tgt Ion:212 Resp: 2865

Ion Ratio Lower Upper

212 100

106 22.5 18.2 27.4

104 14.1 10.6 15.8



#28

Fluoranthene

Concen: 0.086 ng

RT: 19.018 min Scan# 1964

Delta R.T. -0.002 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

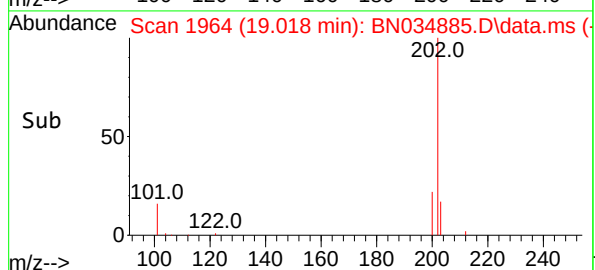
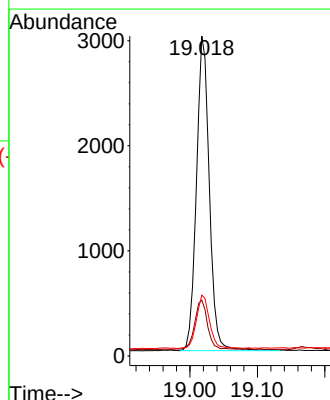
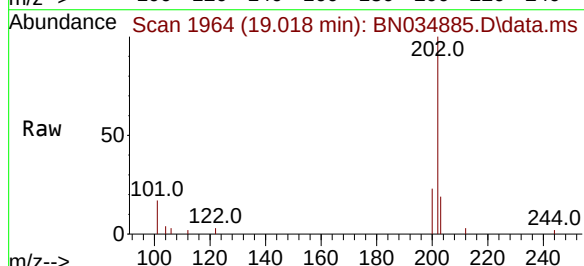
Tgt Ion:202 Resp: 3977

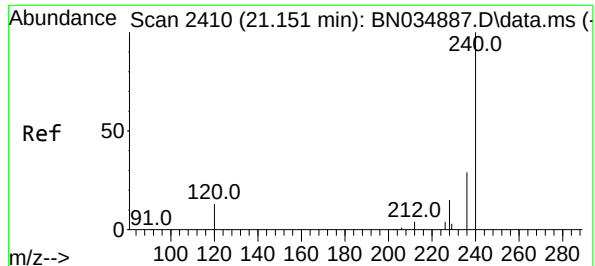
Ion Ratio Lower Upper

202 100

101 15.7 12.7 19.1

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.149 min Scan# 2408

Delta R.T. -0.002 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

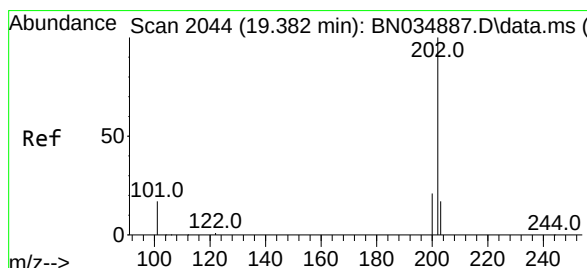
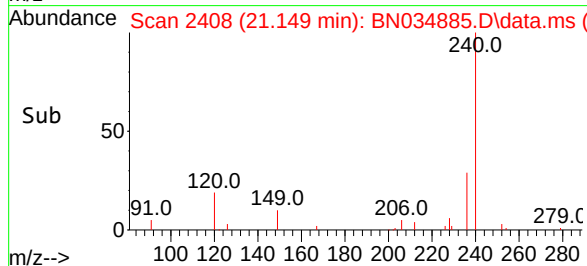
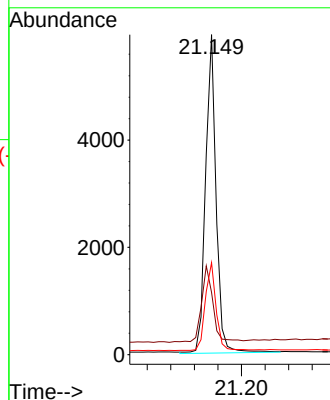
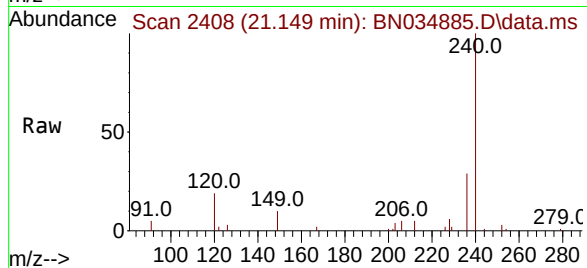
Tgt Ion:240 Resp: 7364

Ion Ratio Lower Upper

240 100

120 19.4 13.8 20.8

236 28.7 23.8 35.6



#30

Pyrene

Concen: 0.108 ng

RT: 19.385 min Scan# 2043

Delta R.T. 0.002 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

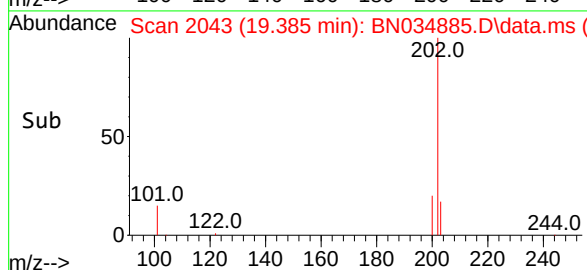
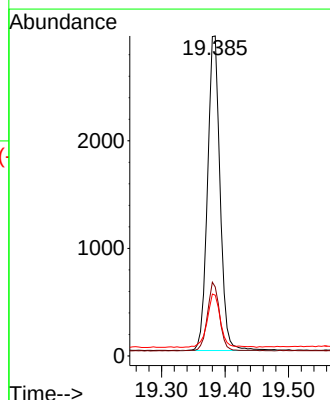
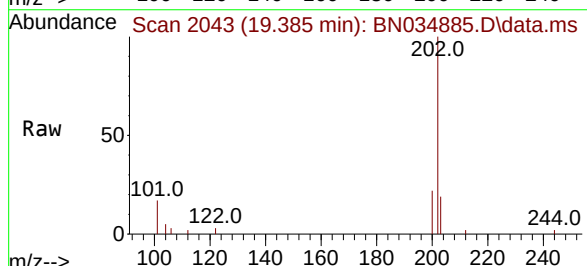
Tgt Ion:202 Resp: 4013

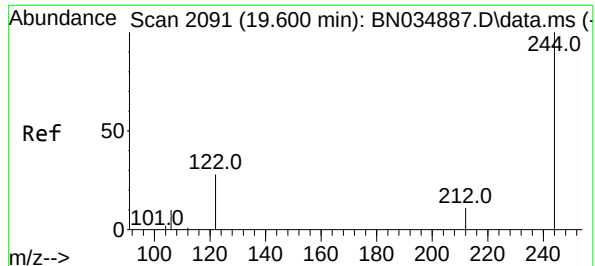
Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

203 18.0 14.1 21.1

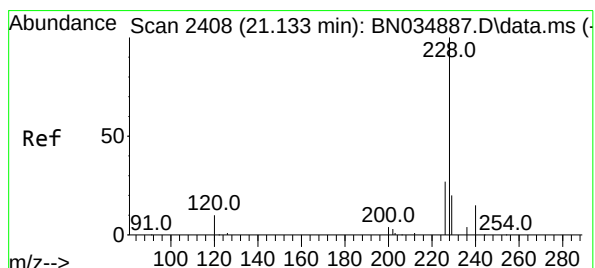
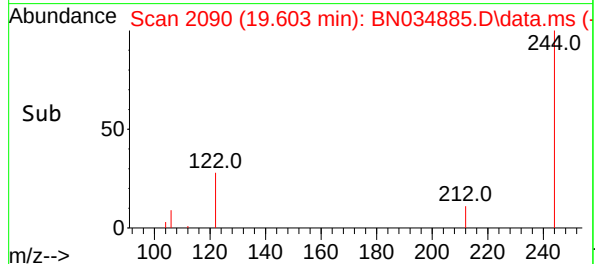
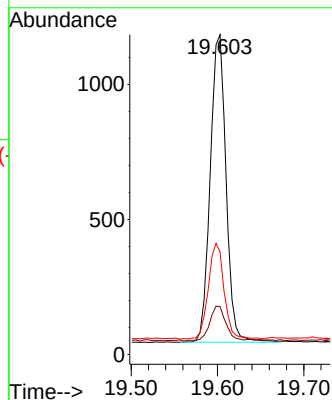
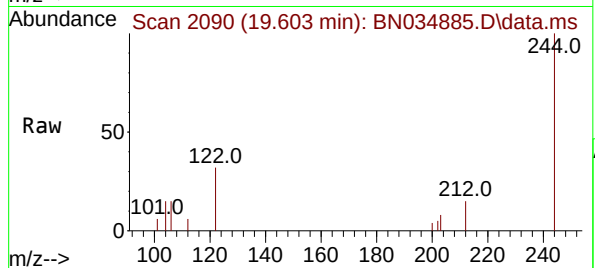




#31
Terphenyl-d14
Concen: 0.105 ng
RT: 19.603 min Scan# 2091
Delta R.T. 0.002 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

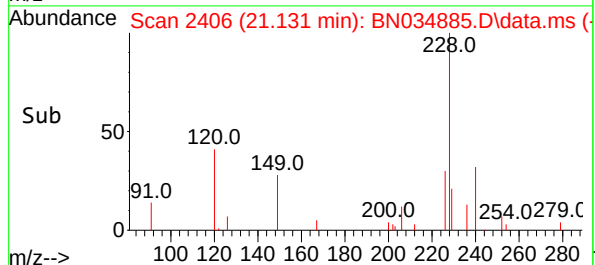
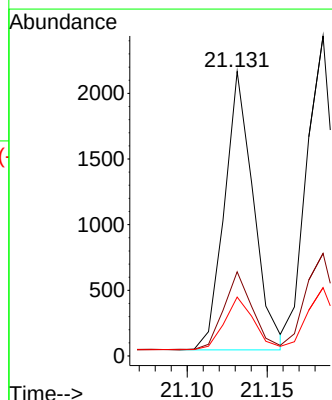
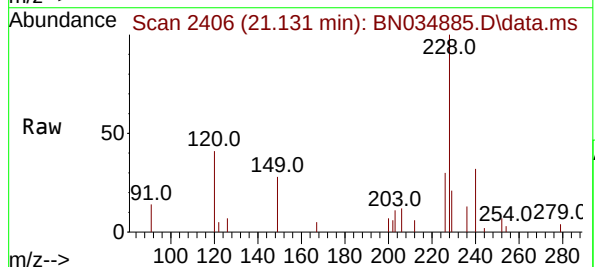
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

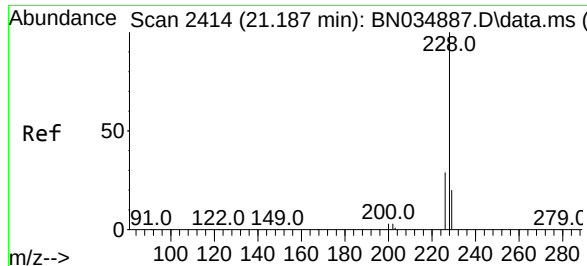
Tgt Ion:244 Resp: 1450
Ion Ratio Lower Upper
244 100
212 15.0 9.4 14.0#
122 32.1 23.0 34.4



#32
Benzo(a)anthracene
Concen: 0.093 ng
RT: 21.131 min Scan# 2406
Delta R.T. -0.002 min
Lab File: BN034885.D
Acq: 07 Nov 2024 10:02

Tgt Ion:228 Resp: 2670
Ion Ratio Lower Upper
228 100
226 29.6 22.2 33.2
229 20.7 16.0 24.0





#33

Chrysene

Concen: 0.099 ng

RT: 21.185 min Scan# 2414

Delta R.T. -0.002 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

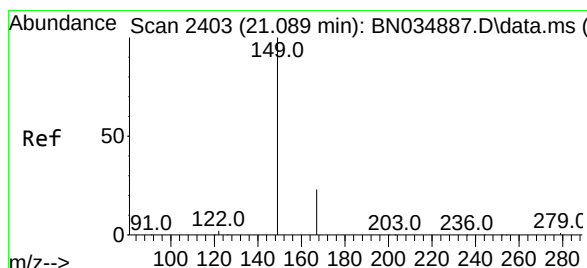
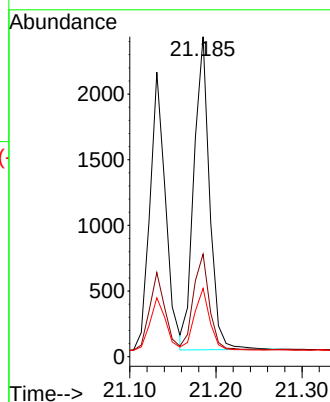
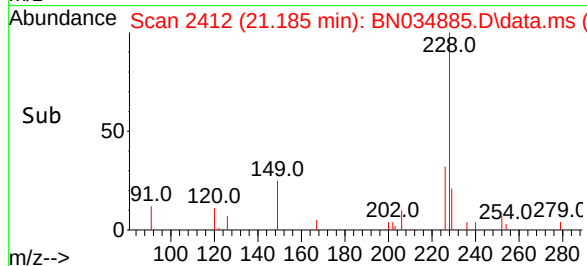
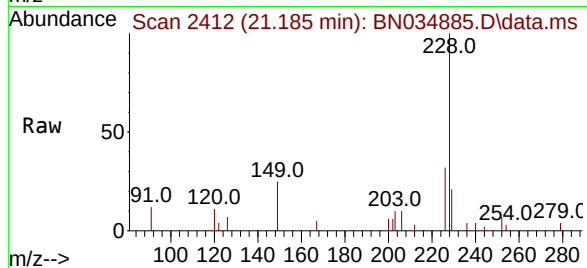
Tgt Ion:228 Resp: 3005

Ion Ratio Lower Upper

228 100

226 32.0 23.7 35.5

229 21.3 16.3 24.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.110 ng

RT: 21.095 min Scan# 2402

Delta R.T. 0.006 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

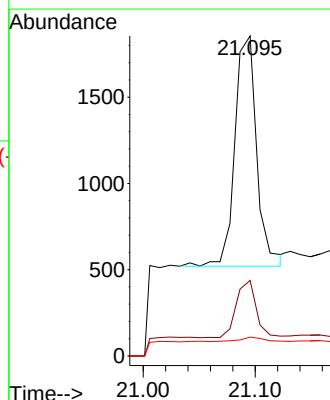
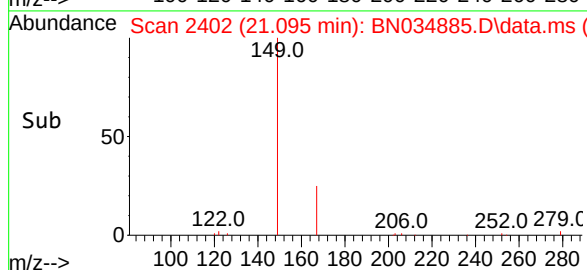
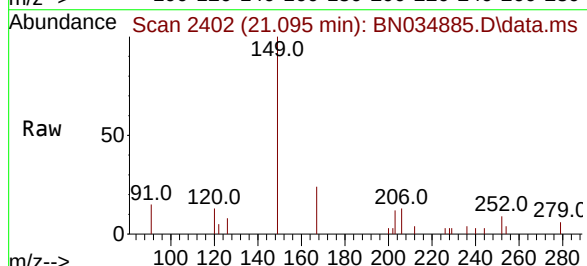
Tgt Ion:149 Resp: 1811

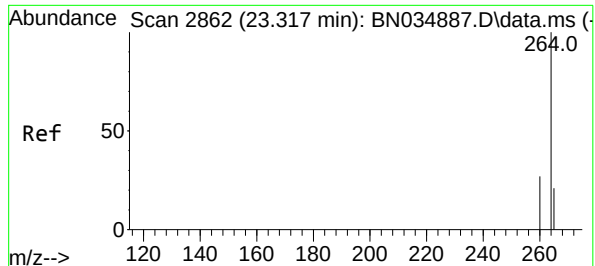
Ion Ratio Lower Upper

149 100

167 22.9 18.1 27.1

279 2.8 1.2 1.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.318 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

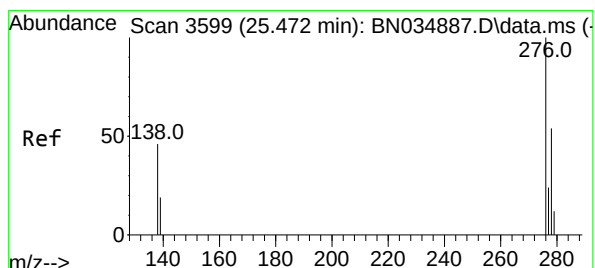
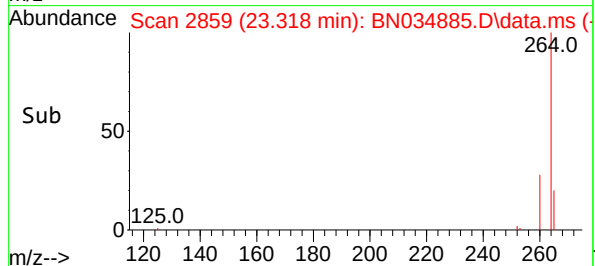
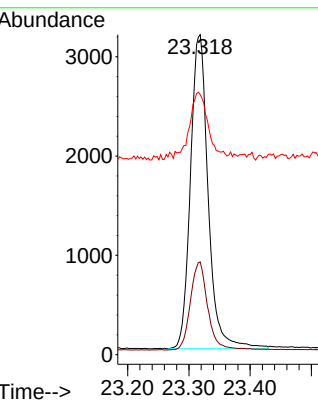
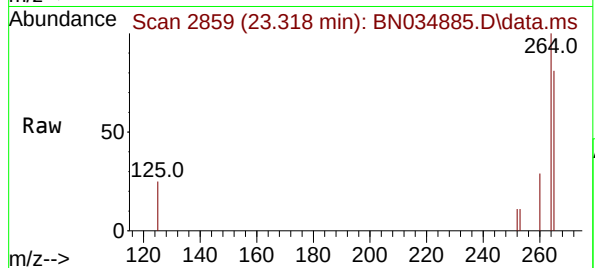
Tgt Ion:264 Resp: 6365

Ion Ratio Lower Upper

264 100

260 29.0 22.2 33.2

265 81.3 60.9 91.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.102 ng

RT: 25.473 min Scan# 3596

Delta R.T. 0.001 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

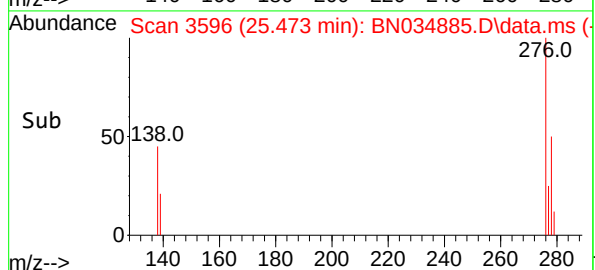
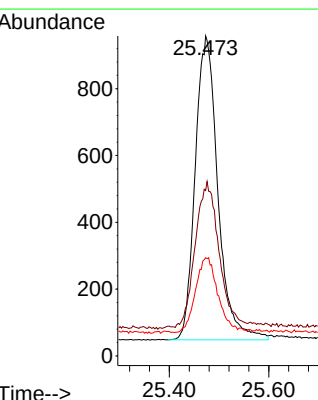
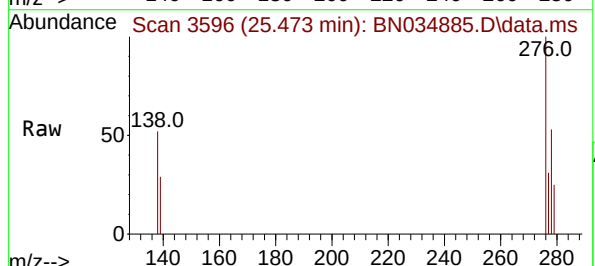
Tgt Ion:276 Resp: 2880

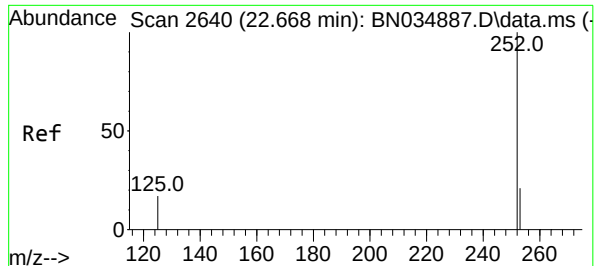
Ion Ratio Lower Upper

276 100

138 50.4 38.4 57.6

277 24.2 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.096 ng

RT: 22.672 min Scan# 2638

Delta R.T. 0.004 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

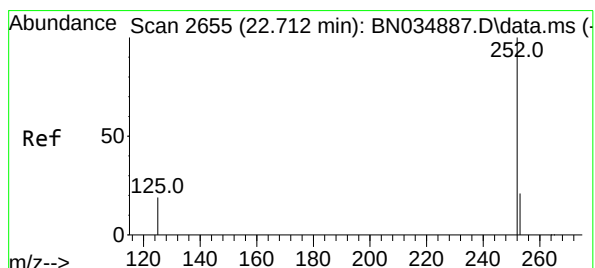
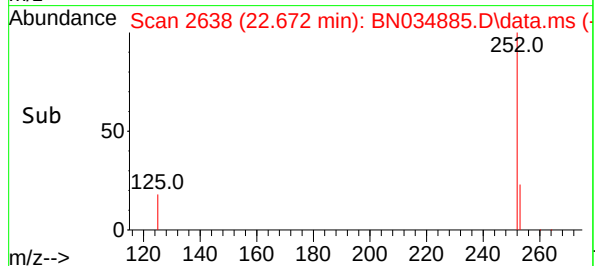
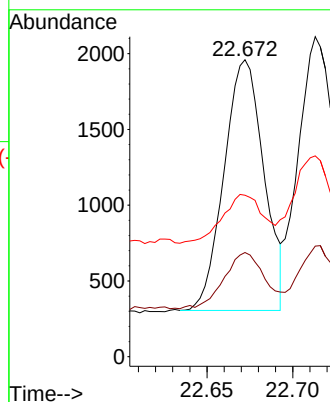
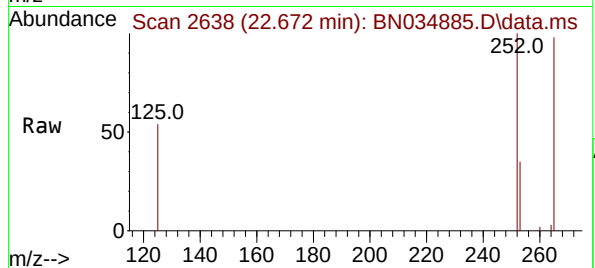
Tgt Ion:252 Resp: 2681

Ion Ratio Lower Upper

252 100

253 35.1 19.4 29.2#

125 54.4 21.4 32.2#



#38

Benzo(k)fluoranthene

Concen: 0.096 ng

RT: 22.713 min Scan# 2652

Delta R.T. 0.001 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

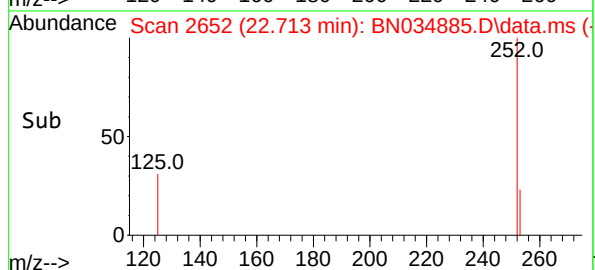
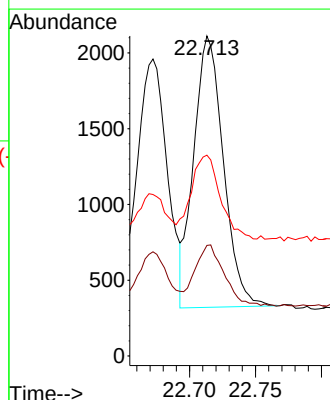
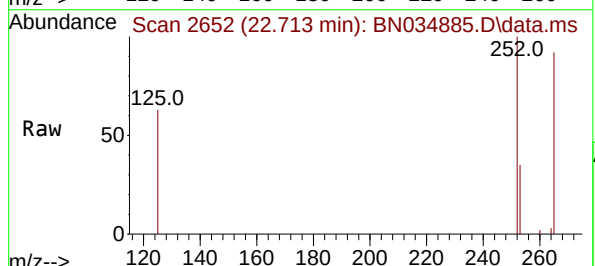
Tgt Ion:252 Resp: 2806

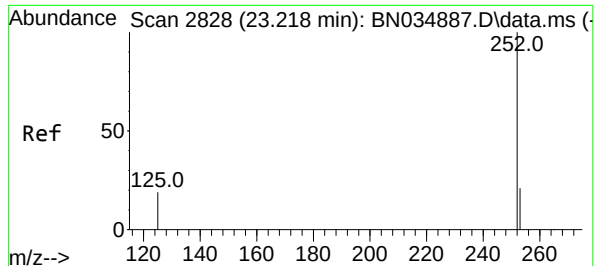
Ion Ratio Lower Upper

252 100

253 34.6 19.8 29.8#

125 62.7 22.6 33.8#





#39

Benzo(a)pyrene

Concen: 0.094 ng

RT: 23.222 min Scan# 21

Delta R.T. 0.004 min

Lab File: BN034885.D

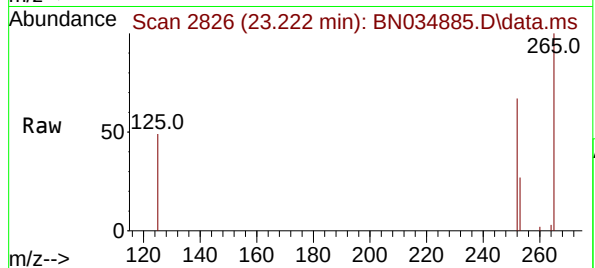
Acq: 07 Nov 2024 10:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



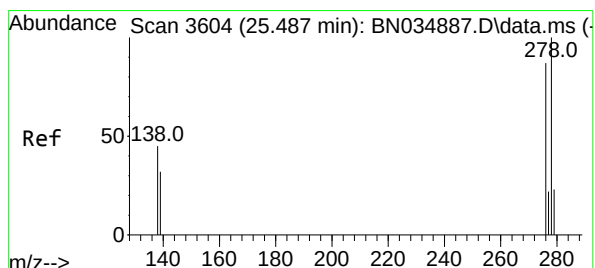
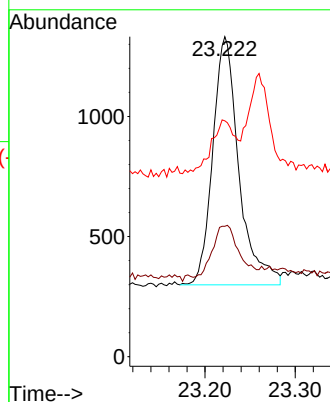
Tgt Ion:252 Resp: 2082

Ion Ratio Lower Upper

252 100

253 40.8 21.4 32.2#

125 73.7 27.8 41.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.101 ng

RT: 25.491 min Scan# 3602

Delta R.T. 0.004 min

Lab File: BN034885.D

Acq: 07 Nov 2024 10:02

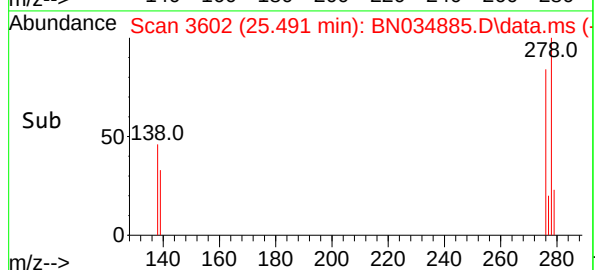
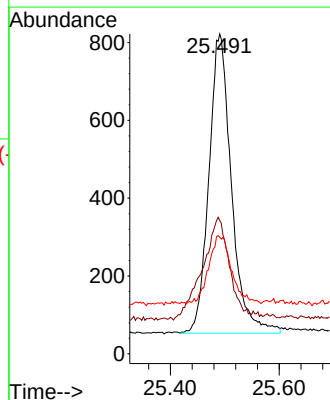
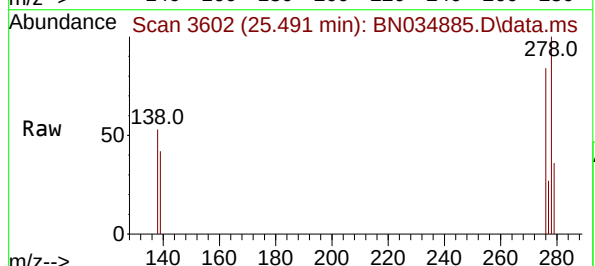
Tgt Ion:278 Resp: 2210

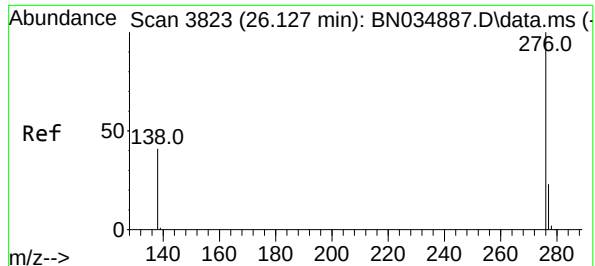
Ion Ratio Lower Upper

278 100

139 41.7 27.2 40.8#

279 36.5 21.4 32.0#





#41

Benzo(g,h,i)perylene

Concen: 0.101 ng

RT: 26.128 min Scan# 31

Delta R.T. 0.001 min

Lab File: BN034885.D

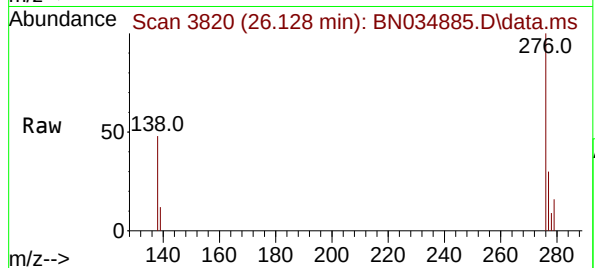
Acq: 07 Nov 2024 10:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



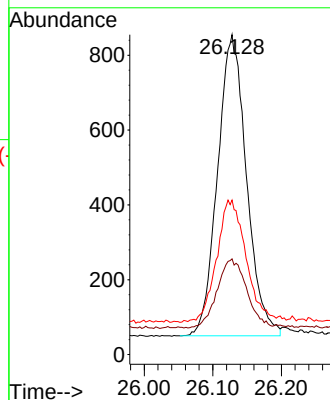
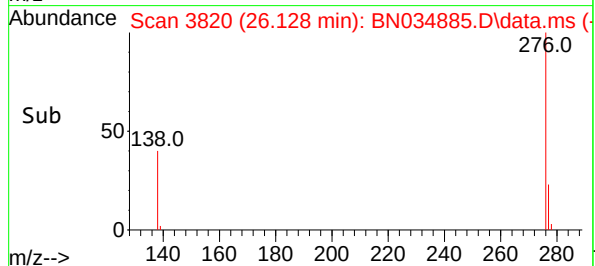
Tgt Ion:276 Resp: 2359

Ion Ratio Lower Upper

276 100

277 29.9 20.2 30.2

138 48.3 33.9 50.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
 Data File : BN034886.D
 Acq On : 07 Nov 2024 10:48
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024

Quant Time: Nov 07 14:40:16 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 07 14:34:20 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	5400	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	15723	0.400	ng	0.00
13) Acenaphthene-d10	14.201	164	6785	0.400	ng	-0.01
19) Phenanthrene-d10	16.957	188	14024	0.400	ng	0.00
29) Chrysene-d12	21.151	240	8450	0.400	ng	0.00
35) Perylene-d12	23.317	264	7815	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.192	112	3053	0.203	ng	0.00
5) Phenol-d6	6.752	99	3885	0.194	ng	0.00
8) Nitrobenzene-d5	8.707	82	2366	0.193	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	4079	0.190	ng	0.00
14) 2,4,6-Tribromophenol	15.704	330	320	0.196	ng	0.00
15) 2-Fluorobiphenyl	12.822	172	5892	0.206	ng	-0.01
27) Fluoranthene-d10	18.987	212	5926	0.187	ng	0.00
31) Terphenyl-d14	19.601	244	3169	0.200	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.184	88	1518	0.222	ng	95
3) n-Nitrosodimethylamine	3.480	42	1930	0.210	ng	98
6) bis(2-Chloroethyl)ether	7.004	93	3421	0.198	ng	99
9) Naphthalene	10.383	128	8538	0.196	ng	99
10) Hexachlorobutadiene	10.682	225	1413	0.203	ng	# 100
12) 2-Methylnaphthalene	12.007	142	5037	0.189	ng	98
16) Acenaphthylene	13.923	152	6195	0.189	ng	100
17) Acenaphthene	14.265	154	4347	0.192	ng	99
18) Fluorene	15.259	166	5429	0.193	ng	100
20) 4,6-Dinitro-2-methylph...	15.334	198	229	0.203	ng	# 73
21) 4-Bromophenyl-phenylether	16.163	248	1410	0.189	ng	99
22) Hexachlorobenzene	16.262	284	1785	0.198	ng	99
23) Atrazine	16.436	200	957	0.177	ng	96
24) Pentachlorophenol	16.610	266	384	0.205	ng	98
25) Phenanthrene	16.995	178	8193	0.190	ng	100
26) Anthracene	17.081	178	6756	0.182	ng	100
28) Fluoranthene	19.020	202	8296	0.183	ng	99
30) Pyrene	19.382	202	8470	0.198	ng	100
32) Benzo(a)anthracene	21.134	228	6220	0.189	ng	99
33) Chrysene	21.178	228	6897	0.198	ng	97
34) Bis(2-ethylhexyl)phtha...	21.089	149	3687	0.195	ng	98
36) Indeno(1,2,3-cd)pyrene	25.472	276	6848	0.197	ng	99
37) Benzo(b)fluoranthene	22.671	252	6257	0.182	ng	# 90
38) Benzo(k)fluoranthene	22.715	252	6824m	0.191	ng	
39) Benzo(a)pyrene	23.221	252	4882	0.179	ng	# 88
40) Dibenzo(a,h)anthracene	25.487	278	5297	0.197	ng	96
41) Benzo(g,h,i)perylene	26.124	276	5602	0.196	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
 Data File : BN034886.D
 Acq On : 07 Nov 2024 10:48
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024

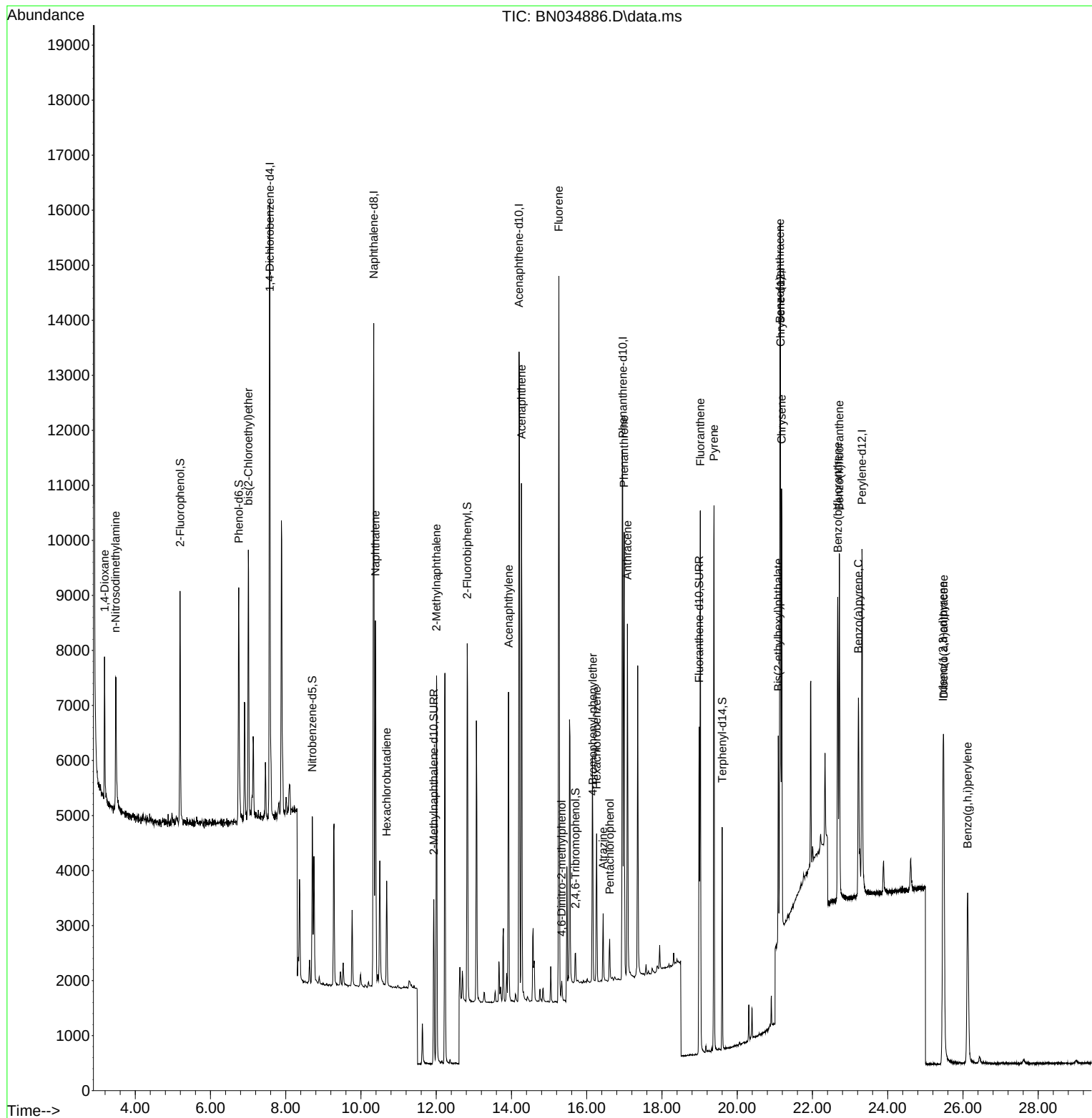
Quant Time: Nov 07 14:40:16 2024

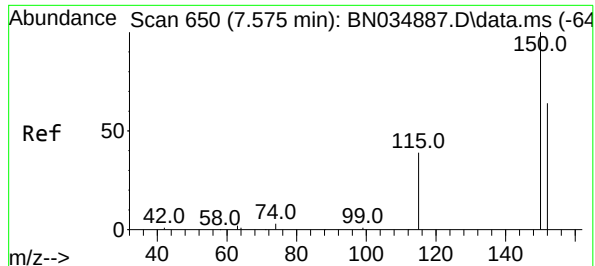
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 07 14:34:20 2024

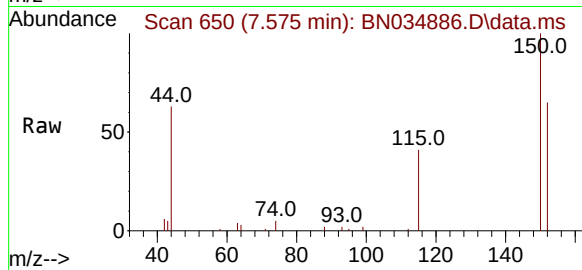
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

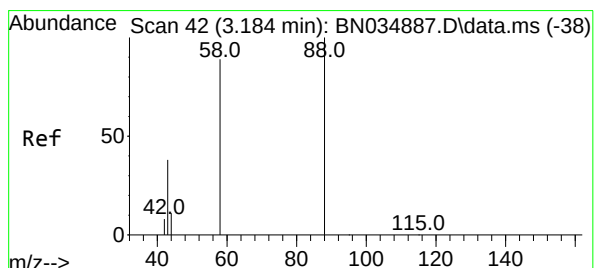
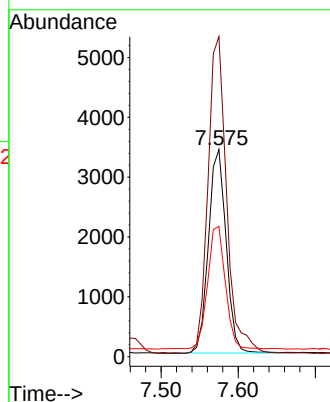
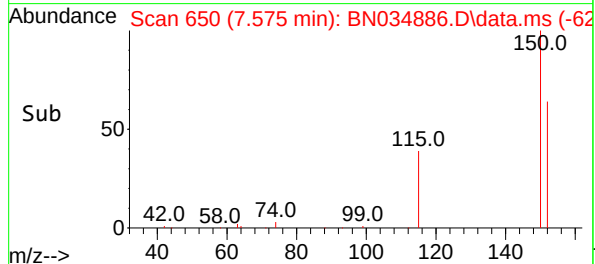
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 5400
Ion Ratio Lower Upper
152 100
150 154.4 124.4 186.6
115 62.8 50.5 75.7

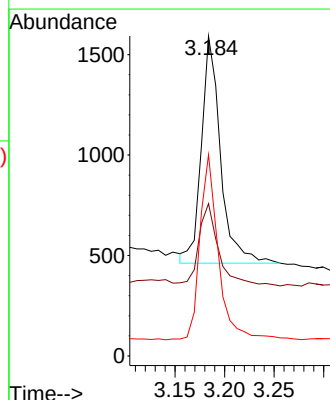
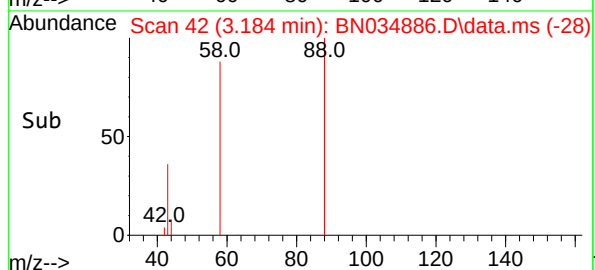
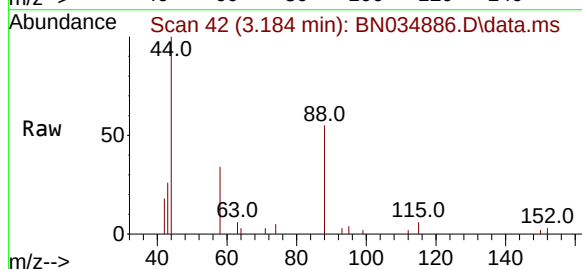
Manual Integrations
APPROVED

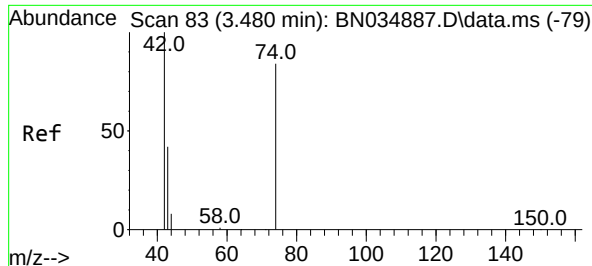
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#2
1,4-Dioxane
Concen: 0.222 ng
RT: 3.184 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion: 88 Resp: 1518
Ion Ratio Lower Upper
88 100
43 37.9 28.2 42.2
58 79.1 67.1 100.7





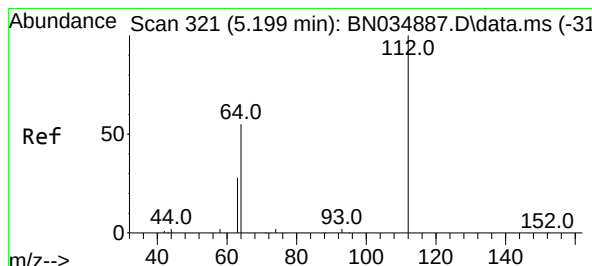
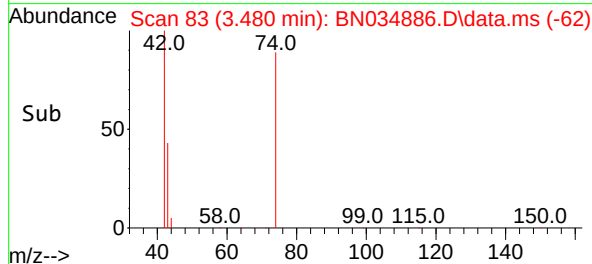
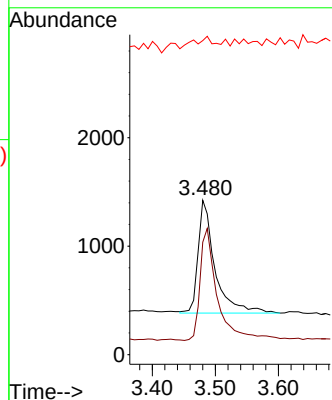
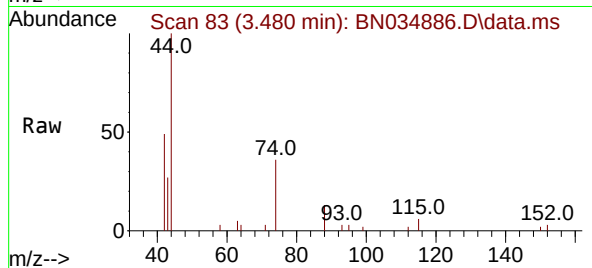
#3
n-Nitrosodimethylamine
Concen: 0.210 ng
RT: 3.480 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1930
Ion Ratio Lower Upper
42 100
74 102.0 83.4 125.2
44 12.3 8.6 12.8

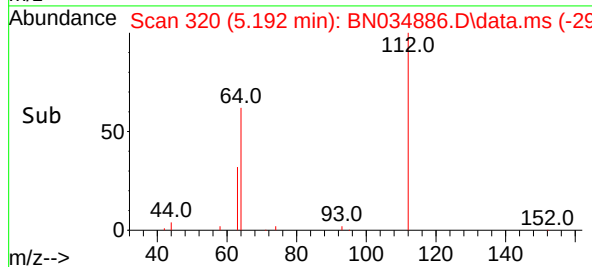
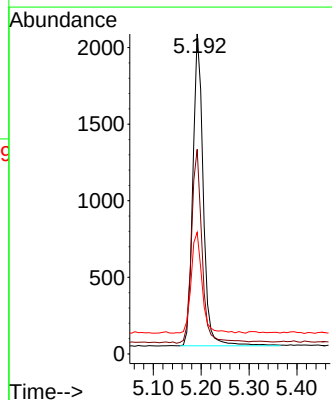
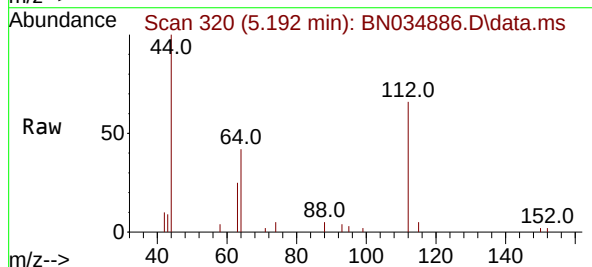
Manual Integrations
APPROVED

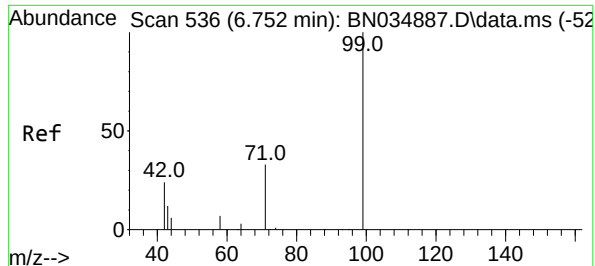
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#4
2-Fluorophenol
Concen: 0.203 ng
RT: 5.192 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:112 Resp: 3053
Ion Ratio Lower Upper
112 100
64 63.4 49.6 74.4
63 34.2 26.3 39.5





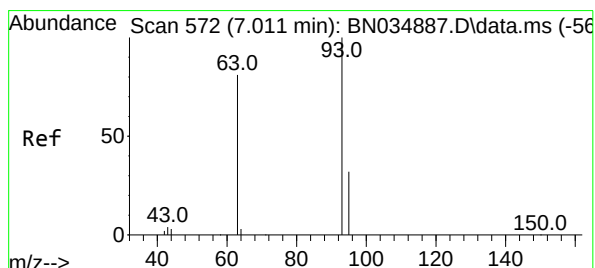
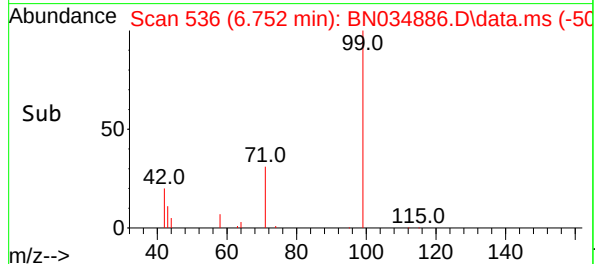
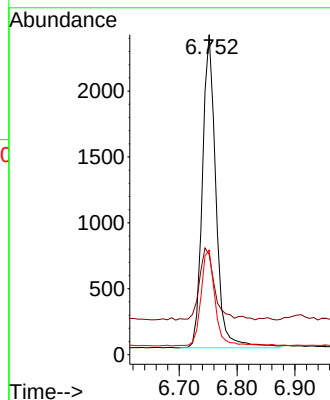
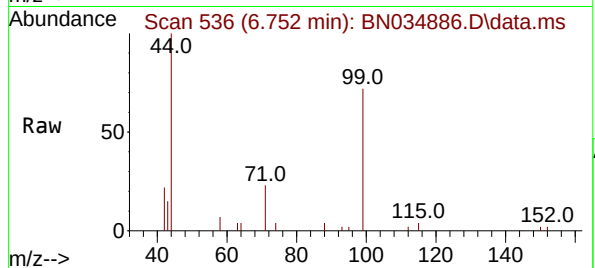
#5
Phenol-d6
Concen: 0.194 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 388
Ion Ratio Lower Upper
99 100
42 25.3 20.2 30.2
71 31.0 25.4 38.0

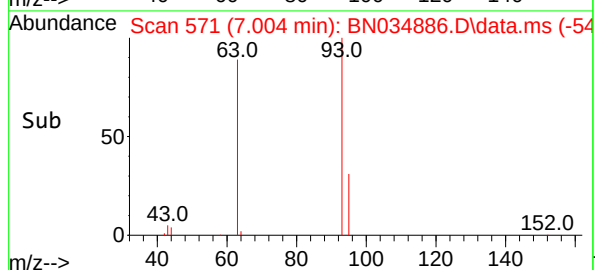
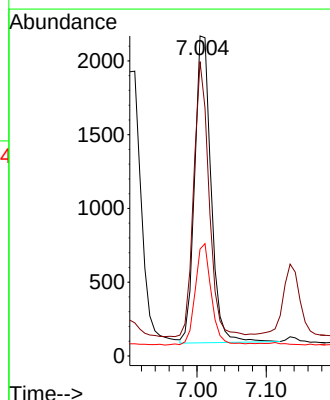
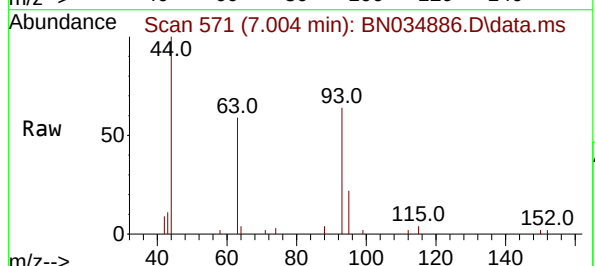
Manual Integrations
APPROVED

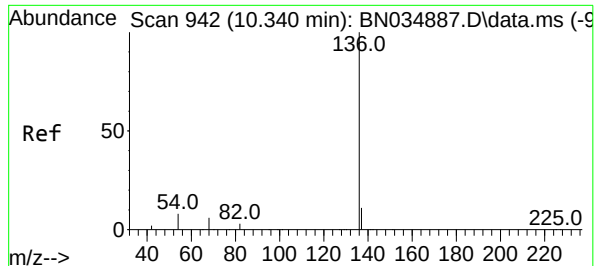
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.198 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion: 93 Resp: 3421
Ion Ratio Lower Upper
93 100
63 83.6 67.5 101.3
95 32.3 25.7 38.5





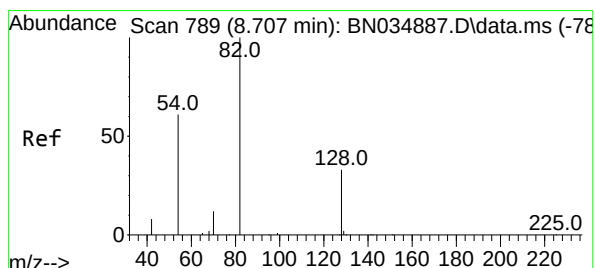
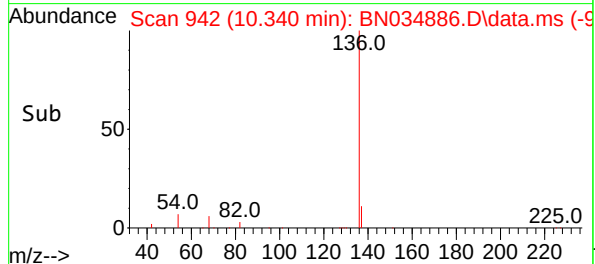
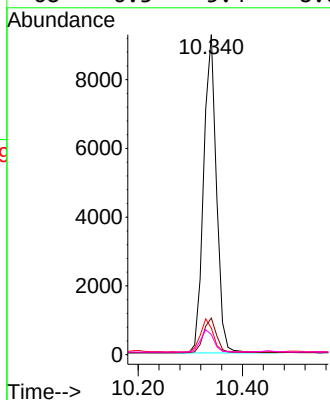
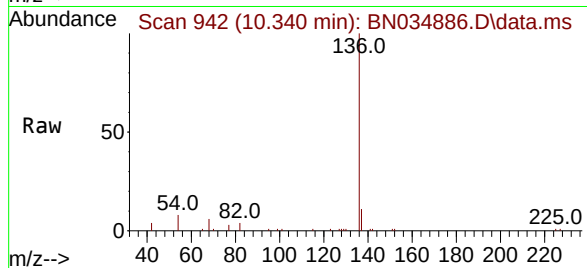
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.9	13.3
54	8.3	6.9	10.3
68	6.3	5.4	8.0

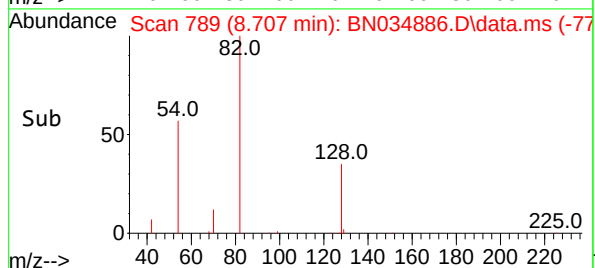
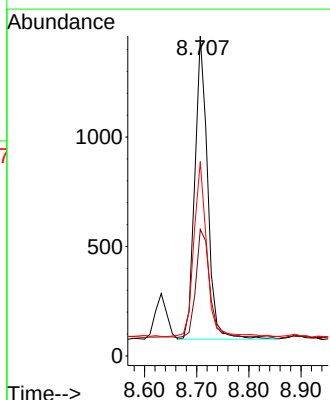
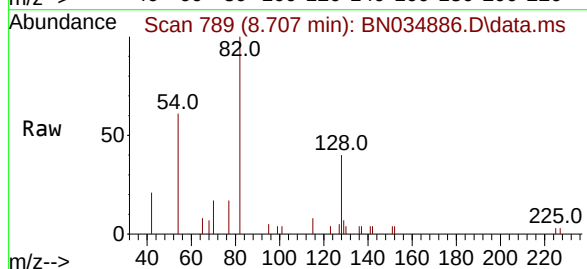
Manual Integrations
APPROVED

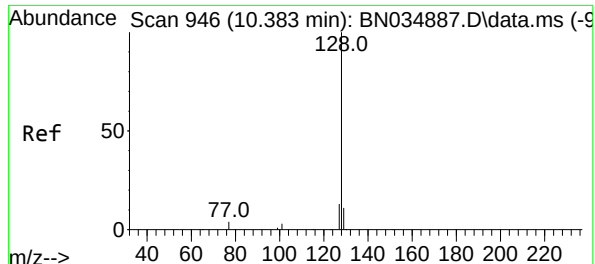
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#8
Nitrobenzene-d5
Concen: 0.193 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion	Ratio	Lower	Upper
82	100		
128	39.5	28.1	42.1
54	60.7	49.8	74.6





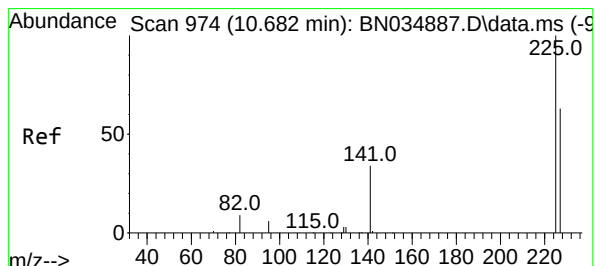
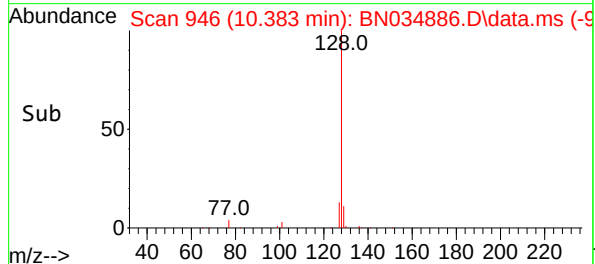
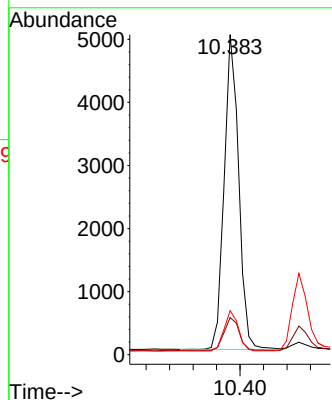
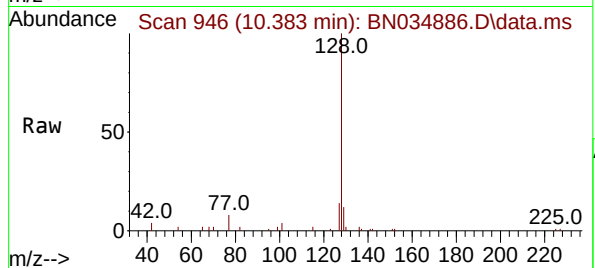
#9
Naphthalene
Concen: 0.196 ng
RT: 10.383 min Scan# 946
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 8538
Ion Ratio Lower Upper
128 100
129 11.6 9.0 13.4
127 13.8 10.8 16.2

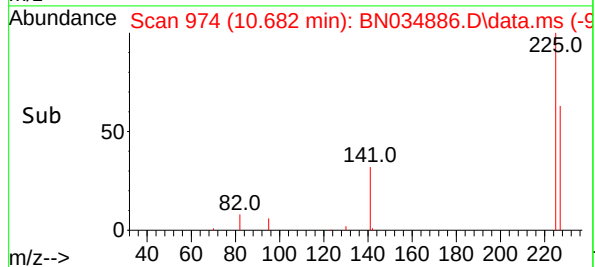
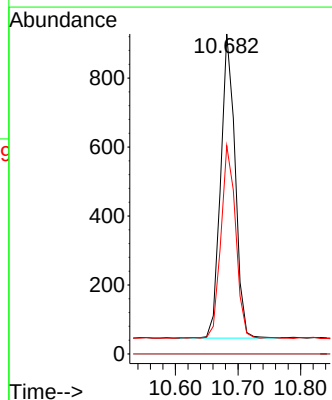
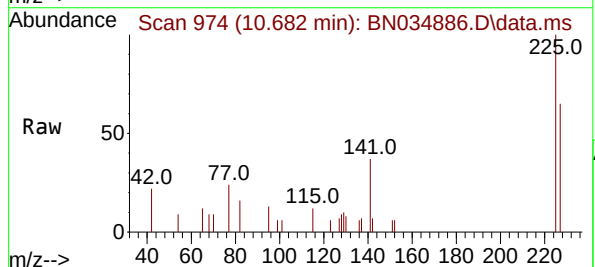
Manual Integrations
APPROVED

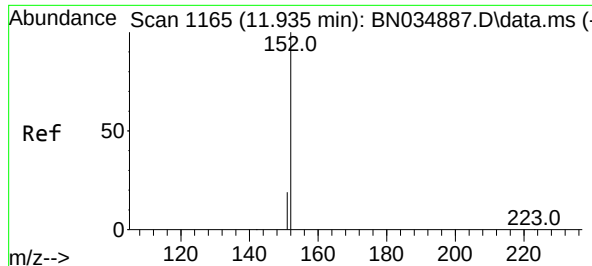
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#10
Hexachlorobutadiene
Concen: 0.203 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

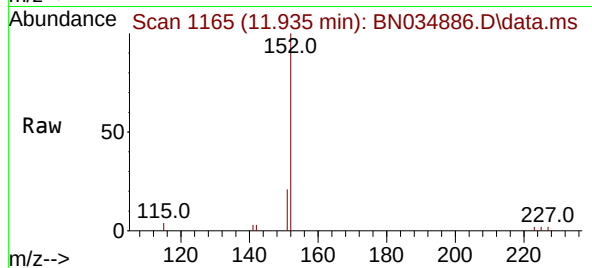
Tgt Ion:225 Resp: 1413
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.1 52.0 78.0





#11
2-Methylnaphthalene-d10
Concen: 0.190 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

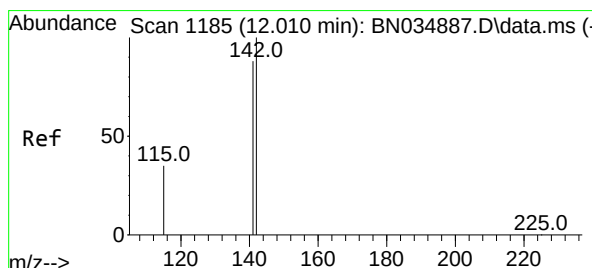
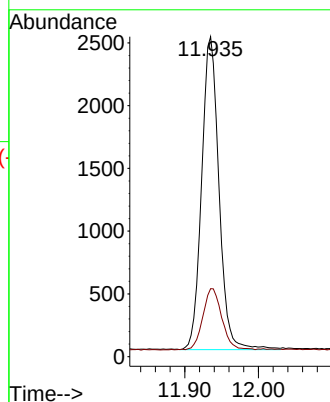
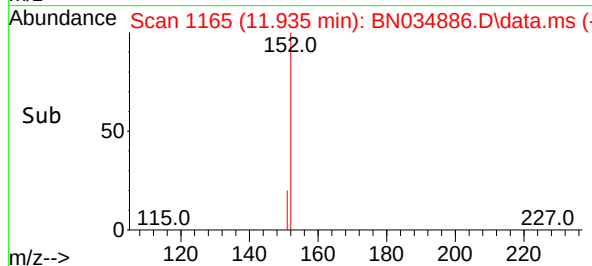
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



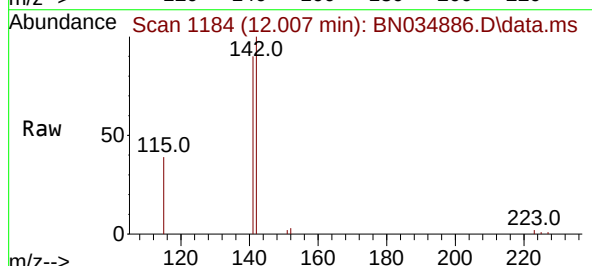
Tgt Ion:152 Resp: 4079
Ion Ratio Lower Upper
152 100
151 21.4 17.1 25.7

Manual Integrations
APPROVED

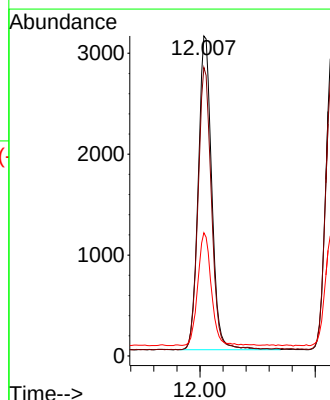
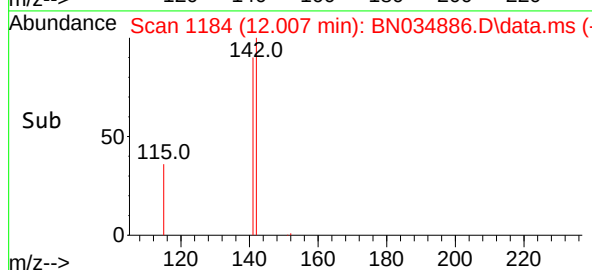
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024

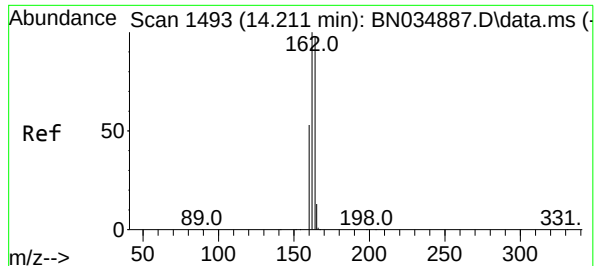


#12
2-Methylnaphthalene
Concen: 0.189 ng
RT: 12.007 min Scan# 1184
Delta R.T. -0.004 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48



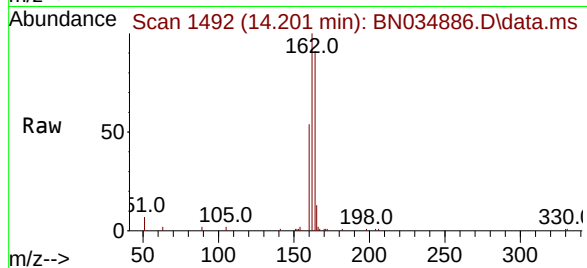
Tgt Ion:142 Resp: 5037
Ion Ratio Lower Upper
142 100
141 90.2 70.5 105.7
115 38.5 29.4 44.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.201 min Scan# 1493
Delta R.T. -0.010 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

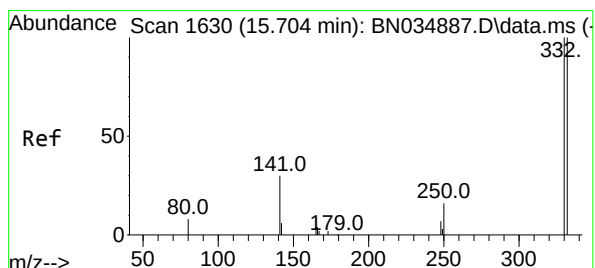
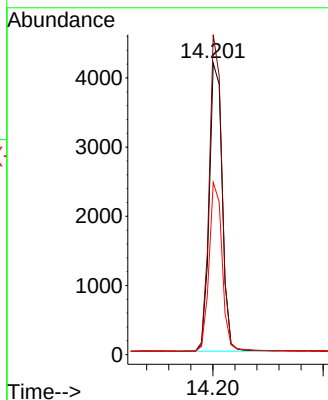
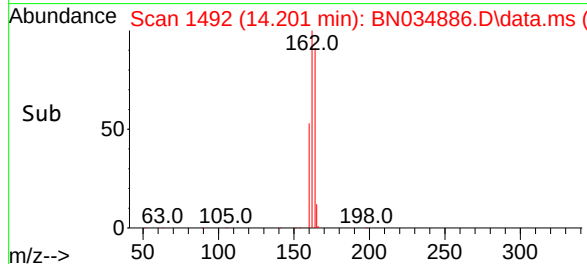
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:164 Resp: 678
Ion Ratio Lower Upper
164 100
162 109.8 81.9 122.9
160 59.1 43.5 65.3

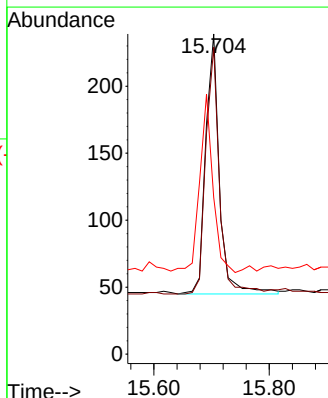
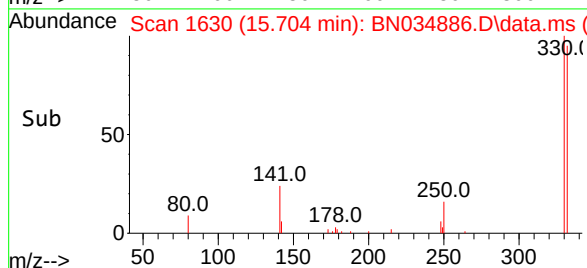
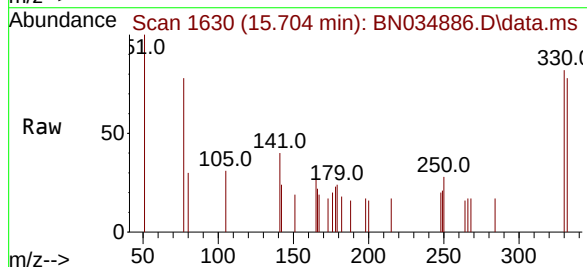
Manual Integrations
APPROVED

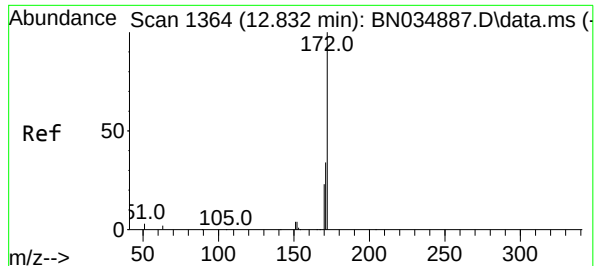
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#14
2,4,6-Tribromophenol
Concen: 0.196 ng
RT: 15.704 min Scan# 1630
Delta R.T. -0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

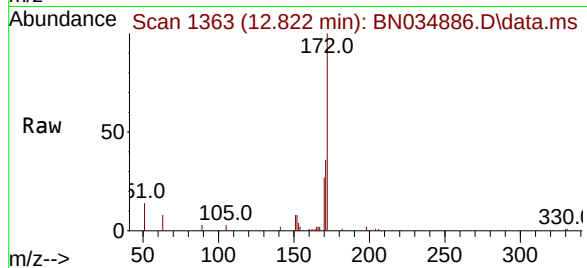
Tgt Ion:330 Resp: 320
Ion Ratio Lower Upper
330 100
332 93.4 77.1 115.7
141 66.3 54.1 81.1





#15
2-Fluorobiphenyl
Concen: 0.206 ng
RT: 12.822 min Scan# 1364
Delta R.T. -0.011 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

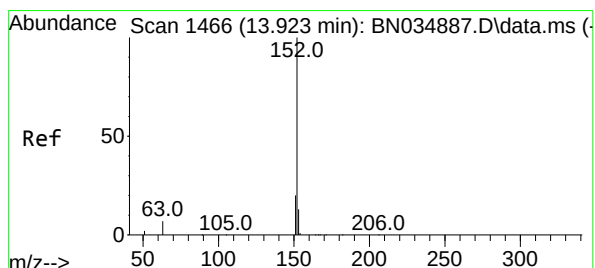
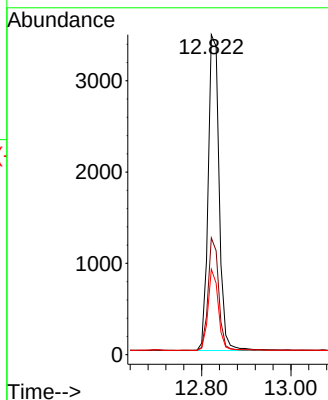
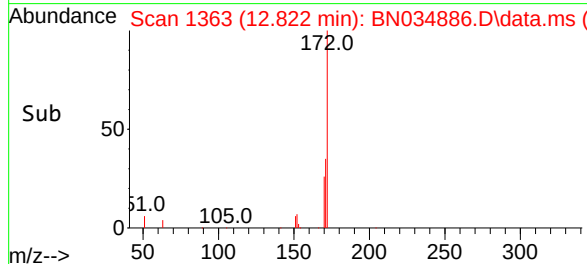
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:172 Resp: 5892
Ion Ratio Lower Upper
172 100
171 36.5 27.9 41.9
170 26.7 19.0 28.4

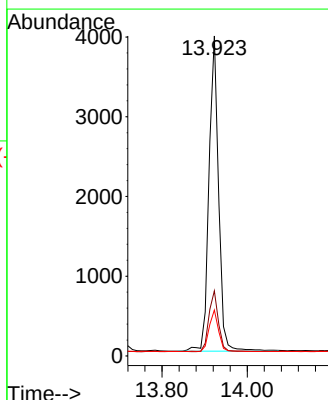
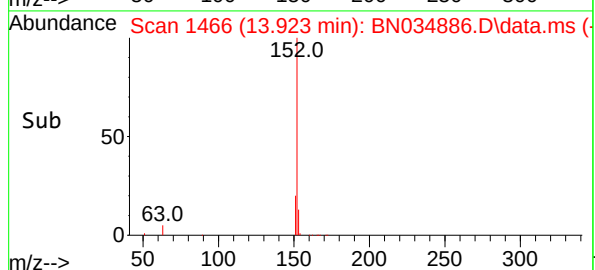
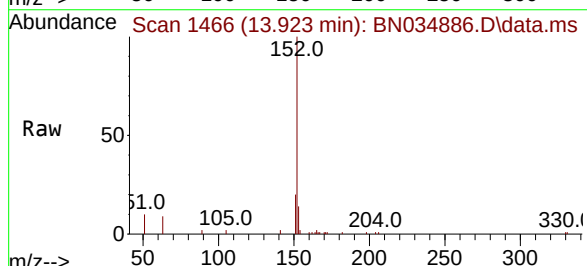
Manual Integrations
APPROVED

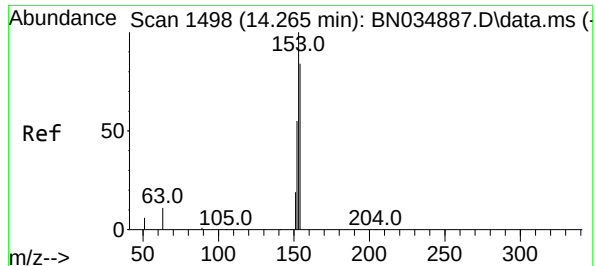
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#16
Acenaphthylene
Concen: 0.189 ng
RT: 13.923 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

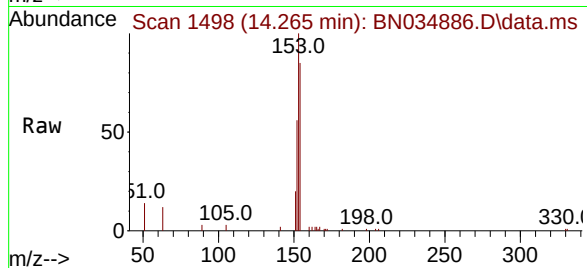
Tgt Ion:152 Resp: 6195
Ion Ratio Lower Upper
152 100
151 19.0 15.2 22.8
153 13.0 10.4 15.6





#17
Acenaphthene
Concen: 0.192 ng
RT: 14.265 min Scan# 1498
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

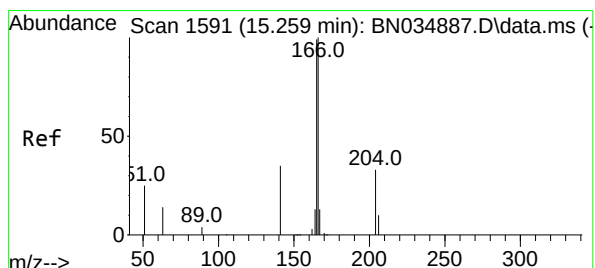
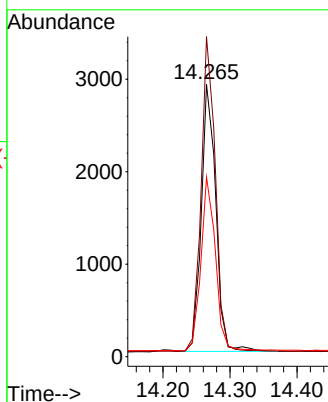
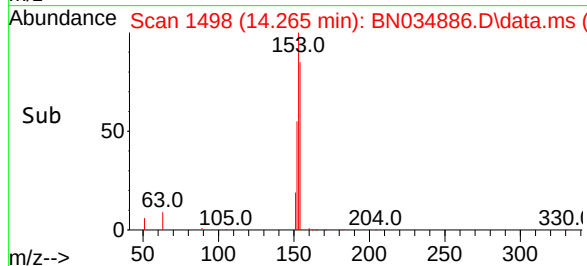
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 434
Ion Ratio Lower Upper
154 100
153 115.9 92.2 138.2
152 65.2 51.1 76.7

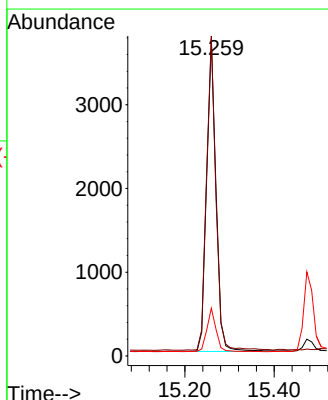
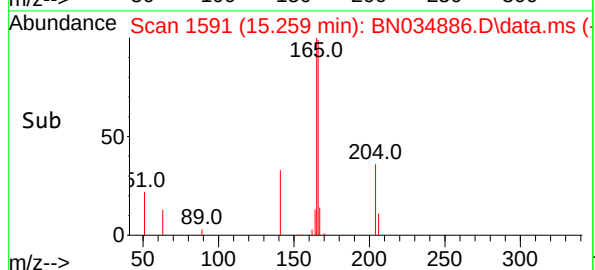
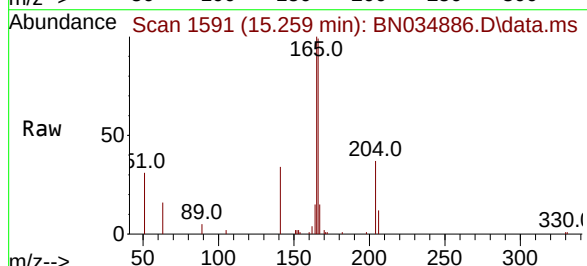
Manual Integrations
APPROVED

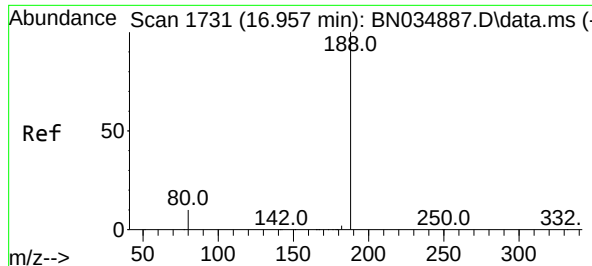
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#18
Fluorene
Concen: 0.193 ng
RT: 15.259 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:166 Resp: 5429
Ion Ratio Lower Upper
166 100
165 99.6 79.5 119.3
167 13.6 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.957 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

Instrument :

BNA_N

ClientSampleId :

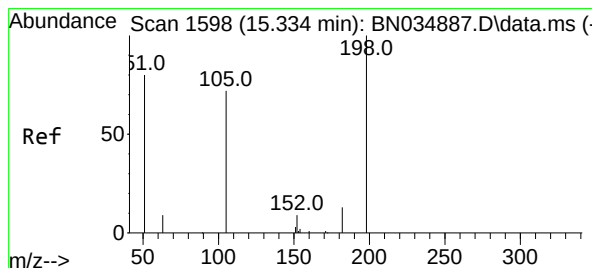
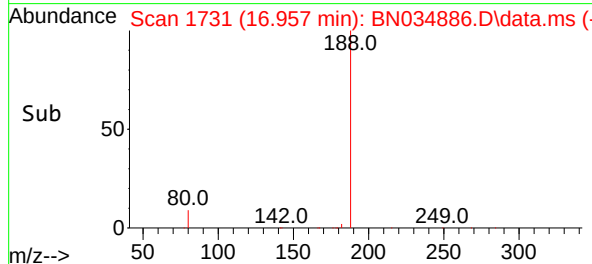
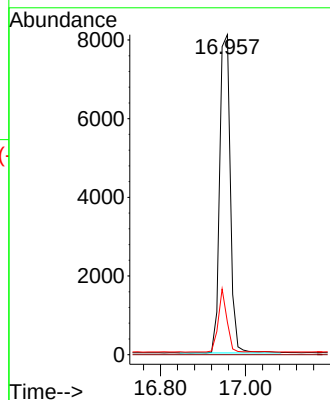
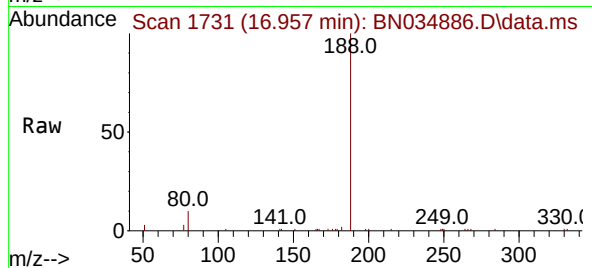
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.2	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.203 ng

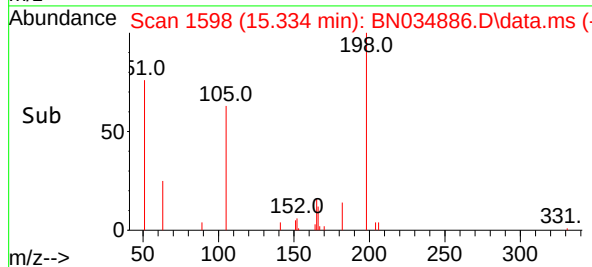
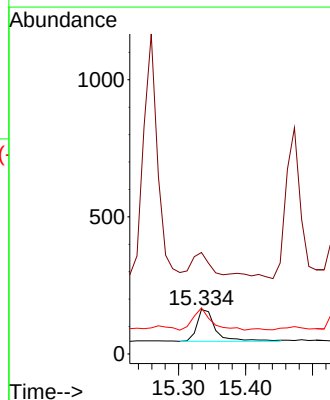
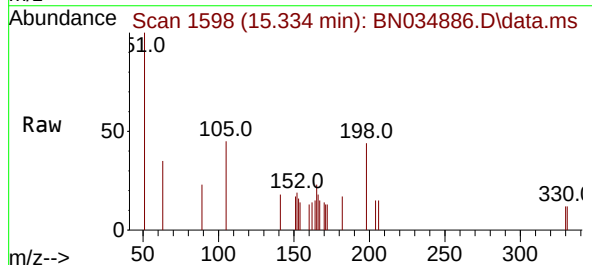
RT: 15.334 min Scan# 1598

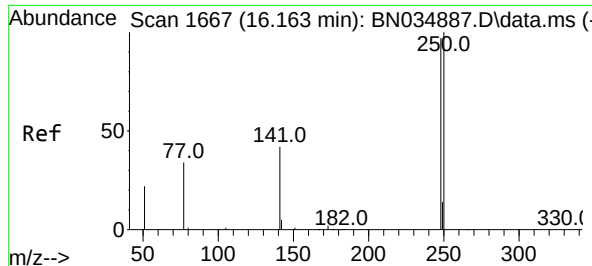
Delta R.T. 0.000 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

Tgt Ion	Ratio	Lower	Upper
198	100		
51	228.4	141.8	212.8#
105	103.7	75.6	113.4





#21
4-Bromophenyl-phenylether
Concen: 0.189 ng
RT: 16.163 min Scan# 1667
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Instrument :

BNA_N

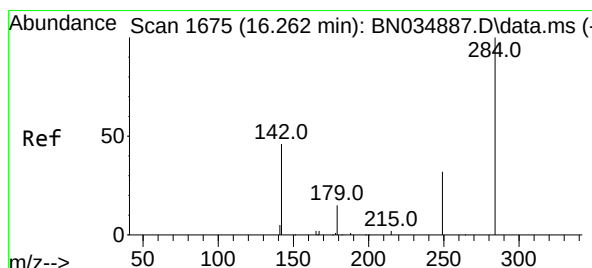
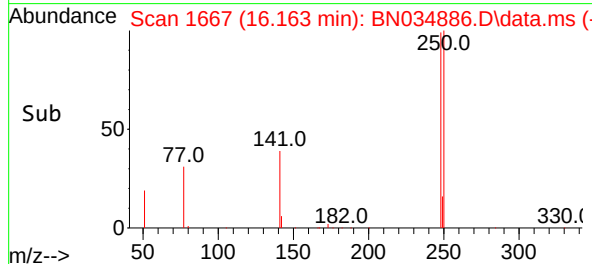
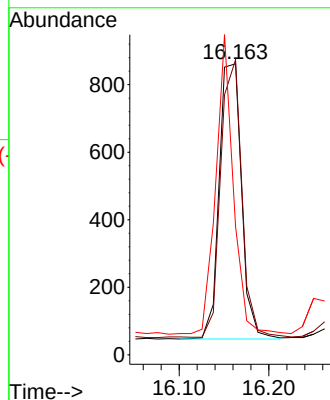
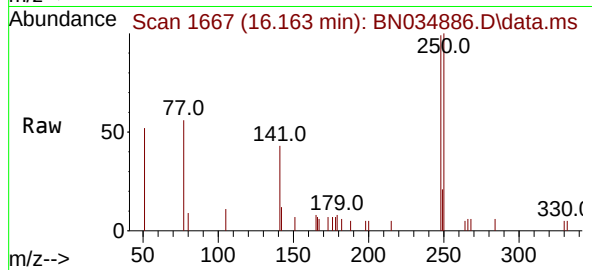
ClientSampleId :

SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.4	82.2	123.4
141	44.1	36.2	54.2

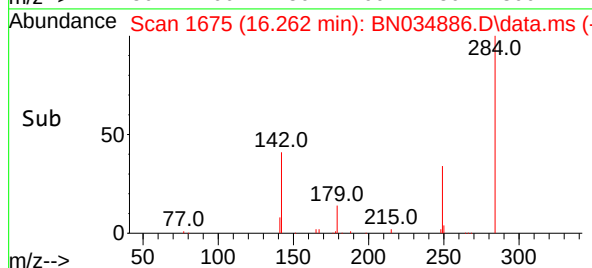
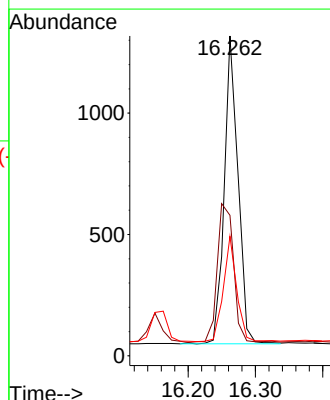
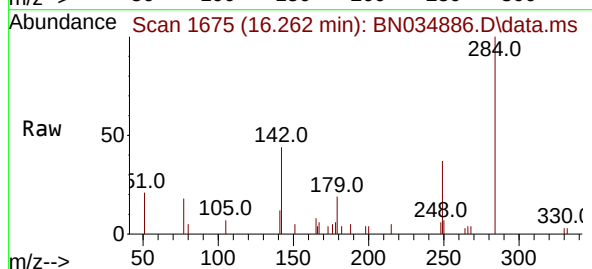
Manual Integrations
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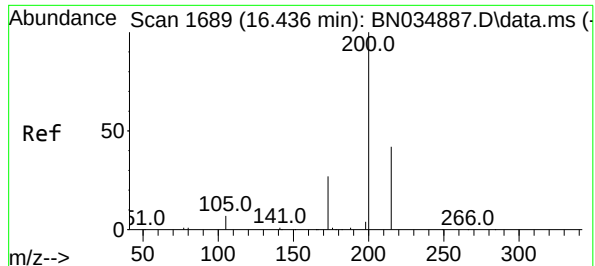
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#22
Hexachlorobenzene
Concen: 0.198 ng
RT: 16.262 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion	Ratio	Lower	Upper
284	100		
142	54.0	43.4	65.2
249	33.5	25.8	38.6





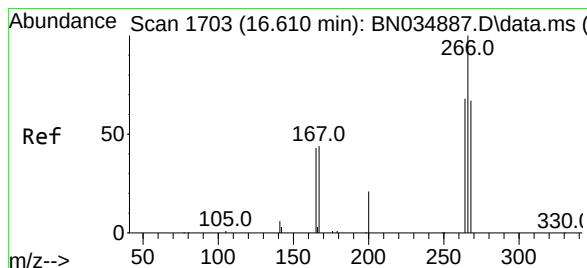
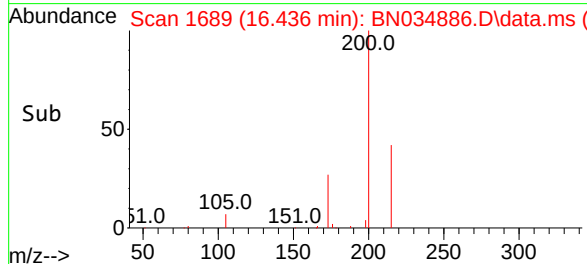
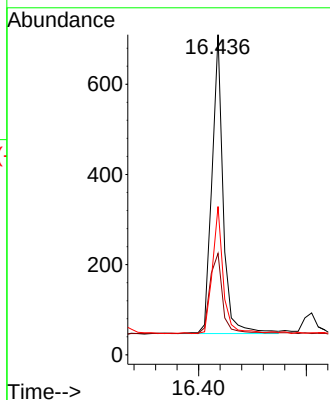
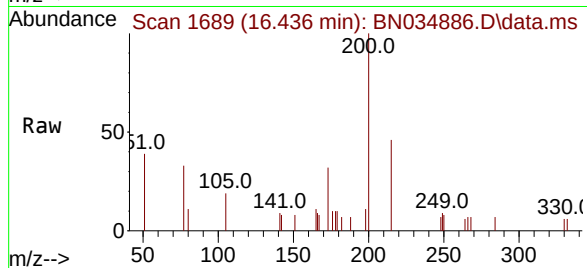
#23
Atrazine
Concen: 0.177 ng
RT: 16.436 min Scan# 1689
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
200	100		
173	31.7	23.4	35.2
215	46.3	35.4	53.0

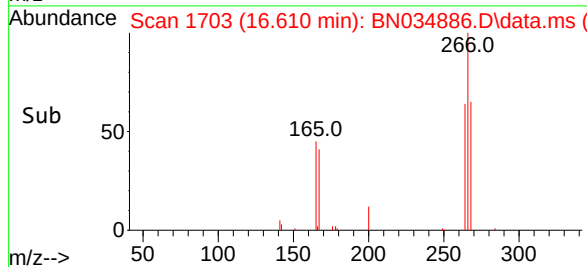
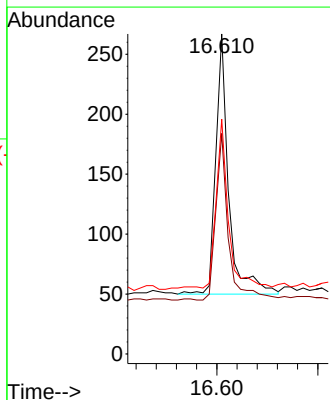
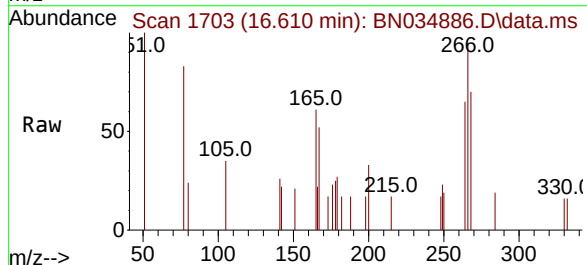
Manual Integrations
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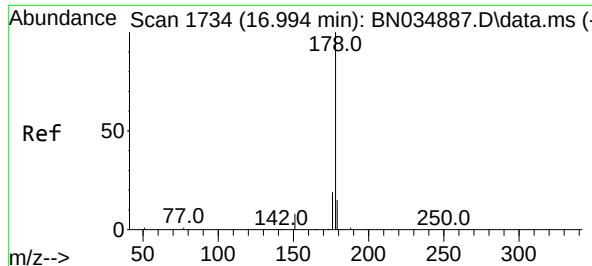
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#24
Pentachlorophenol
Concen: 0.205 ng
RT: 16.610 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.2	51.3	76.9
268	64.6	53.0	79.6





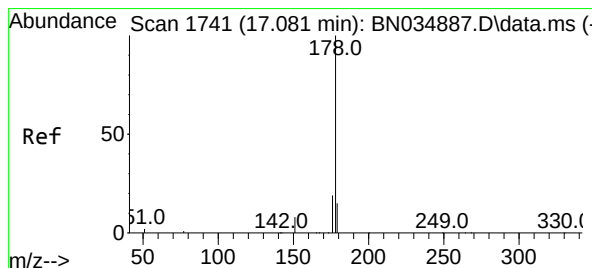
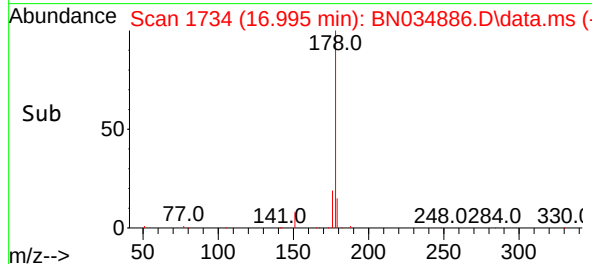
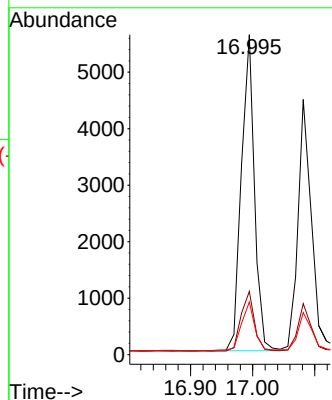
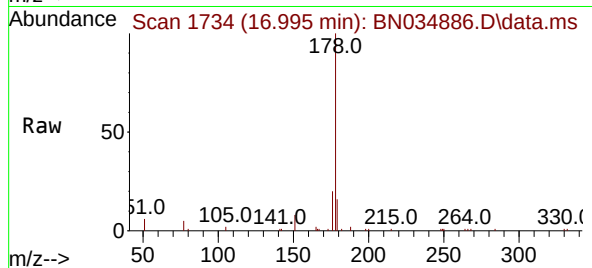
#25
Phenanthrene
Concen: 0.190 ng
RT: 16.995 min Scan# 1734
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 819
Ion Ratio Lower Upper
178 100
176 19.5 15.5 23.3
179 15.5 12.2 18.2

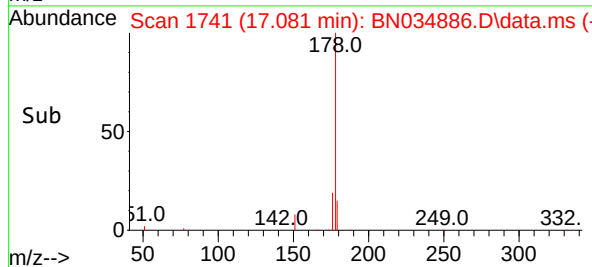
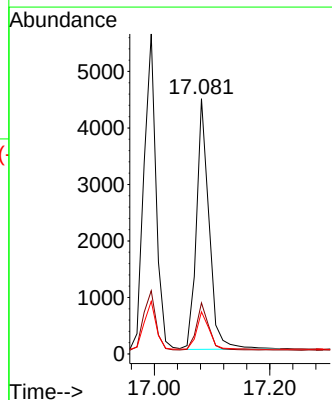
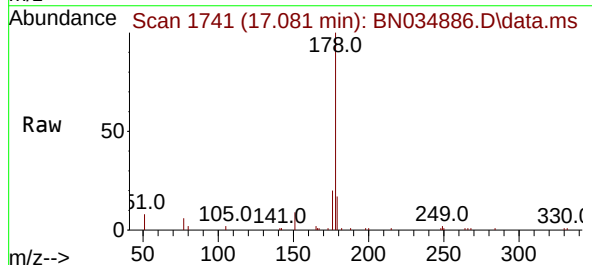
Manual Integrations
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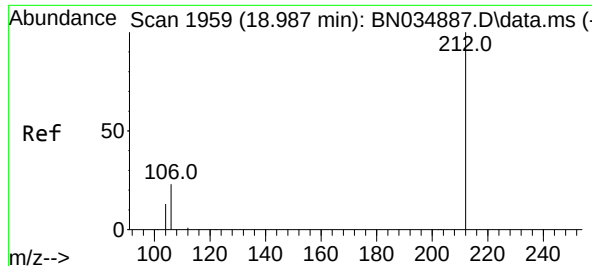
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#26
Anthracene
Concen: 0.182 ng
RT: 17.081 min Scan# 1741
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:178 Resp: 6756
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.2 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.187 ng

RT: 18.987 min Scan# 1959

Delta R.T. 0.000 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

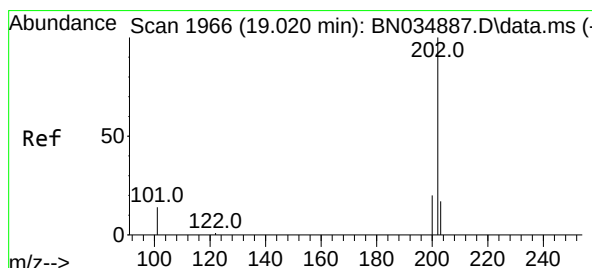
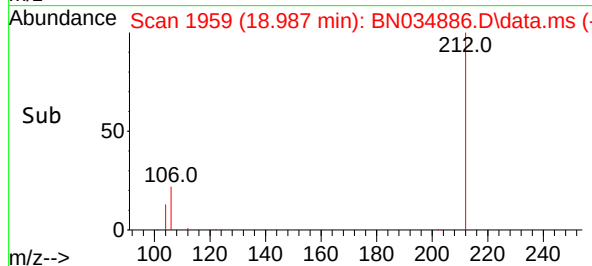
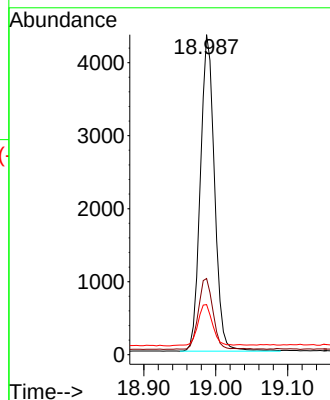
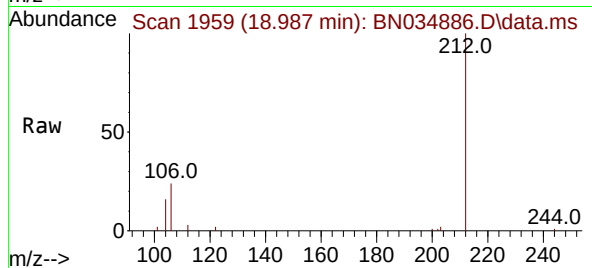
Tgt Ion:	212	Resp:	5920
Ion	Ratio	Lower	Upper
212	100		
106	22.6	18.2	27.4
104	13.8	10.6	15.8

Manual Integrations

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Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#28

Fluoranthene

Concen: 0.183 ng

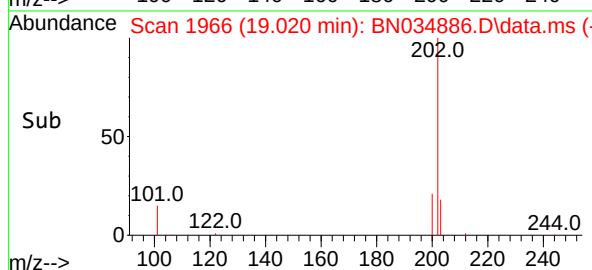
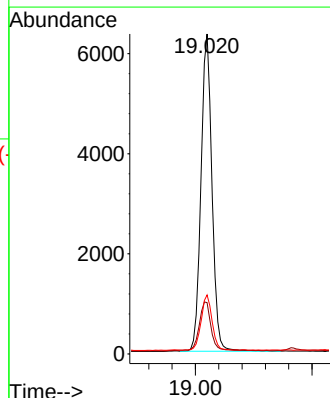
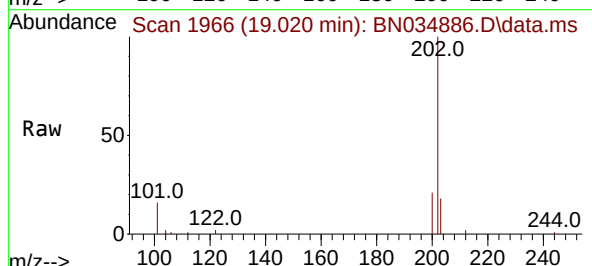
RT: 19.020 min Scan# 1966

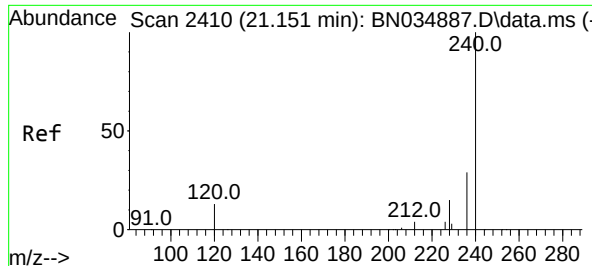
Delta R.T. 0.000 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

Tgt Ion:	202	Resp:	8296
Ion	Ratio	Lower	Upper
202	100		
101	16.7	12.7	19.1
203	17.1	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.151 min Scan# 2410

Delta R.T. 0.000 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

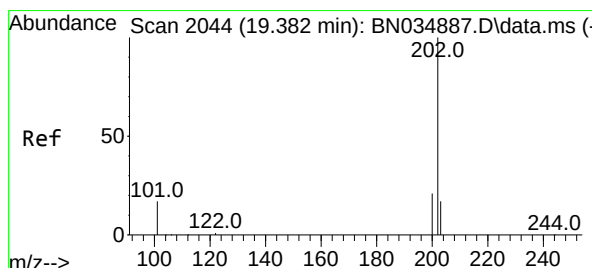
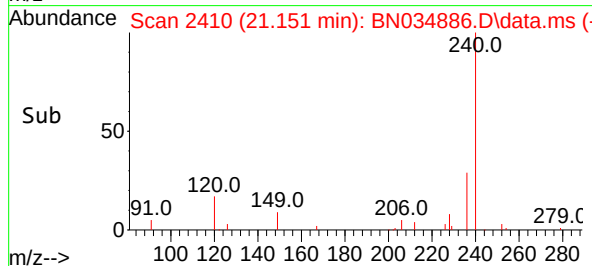
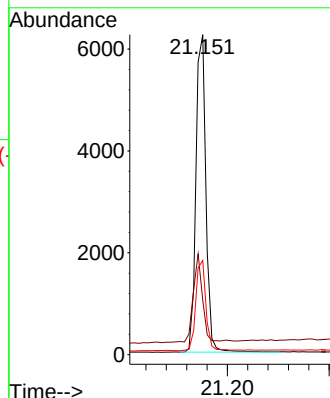
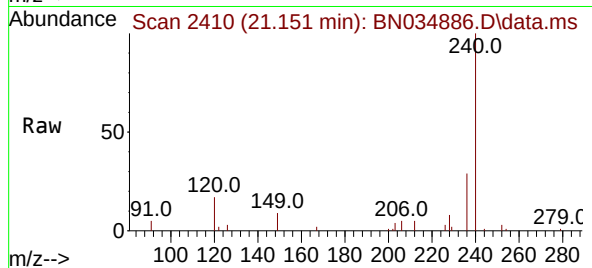
Tgt Ion:	240	Resp:	8450
Ion Ratio	Lower	Upper	
240	100		
120	17.0	13.8	20.8
236	29.5	23.8	35.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#30

Pyrene

Concen: 0.198 ng

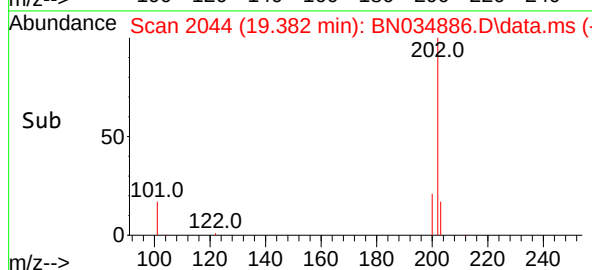
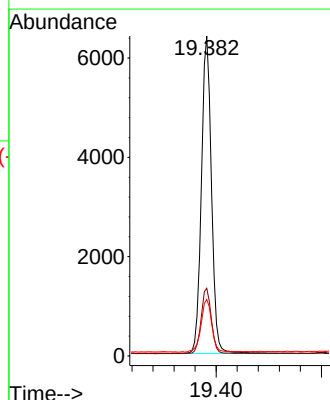
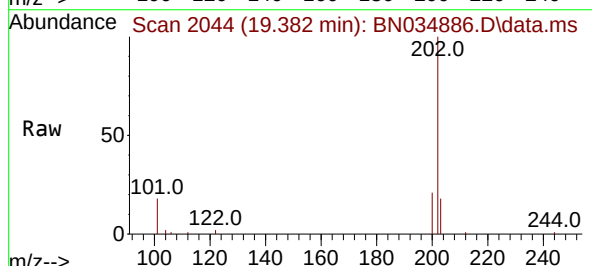
RT: 19.382 min Scan# 2044

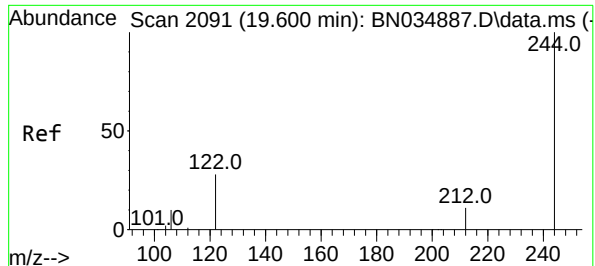
Delta R.T. 0.000 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

Tgt Ion:	202	Resp:	8470
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.8	25.2
203	17.7	14.1	21.1





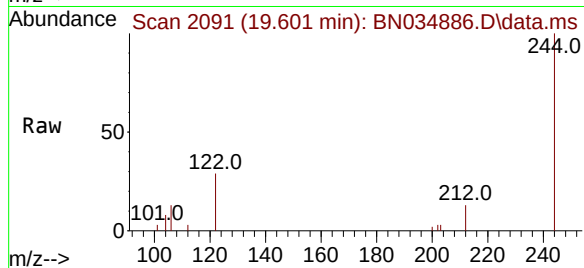
#31
Terphenyl-d14
Concen: 0.200 ng
RT: 19.601 min Scan# 2091
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Instrument :

BNA_N

ClientSampleId :

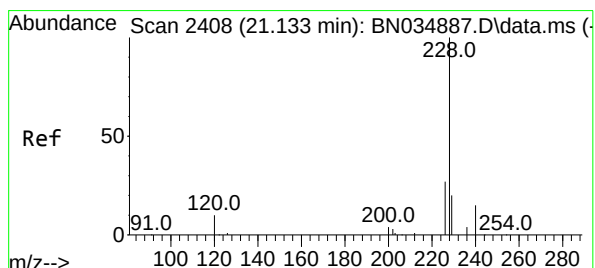
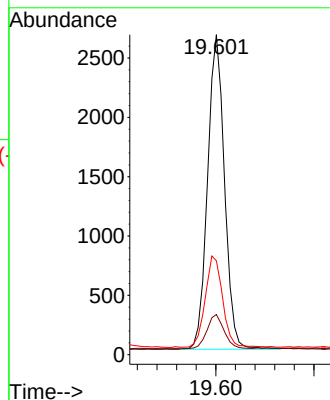
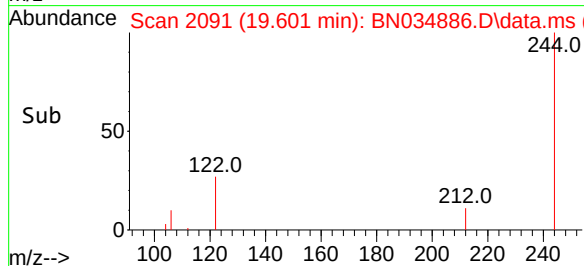
SSTDICC0.2



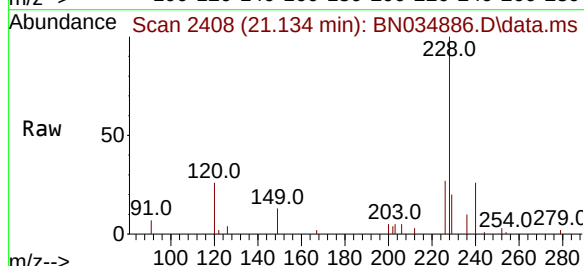
Tgt Ion:244 Resp: 3169
Ion Ratio Lower Upper
244 100
212 12.5 9.4 14.0
122 29.3 23.0 34.4

Manual Integrations
APPROVED

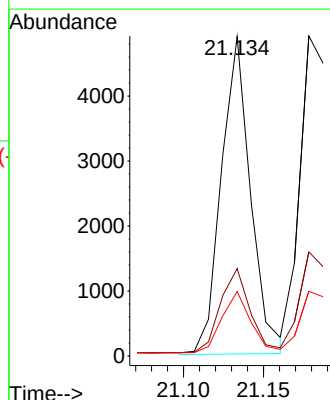
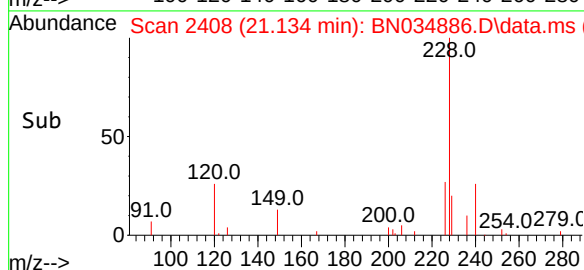
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024

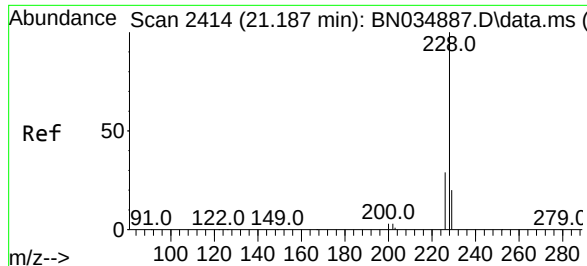


#32
Benzo(a)anthracene
Concen: 0.189 ng
RT: 21.134 min Scan# 2408
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48



Tgt Ion:228 Resp: 6220
Ion Ratio Lower Upper
228 100
226 27.3 22.2 33.2
229 20.2 16.0 24.0





#33

Chrysene

Concen: 0.198 ng

RT: 21.178 min Scan# 2414

Delta R.T. -0.009 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

Instrument :

BNA_N

ClientSampleId :

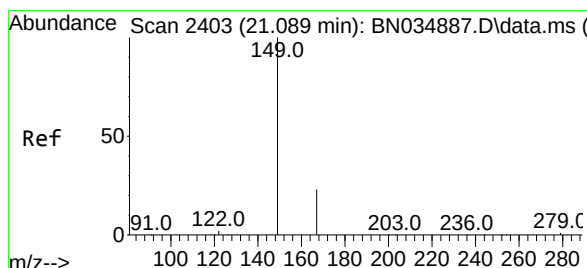
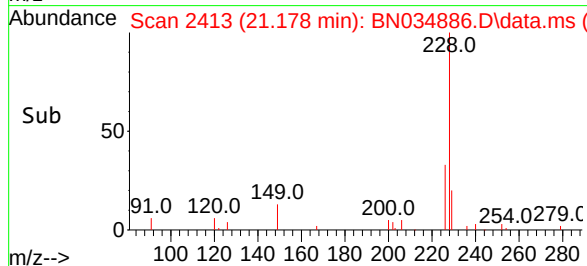
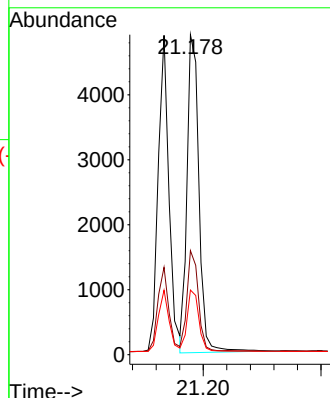
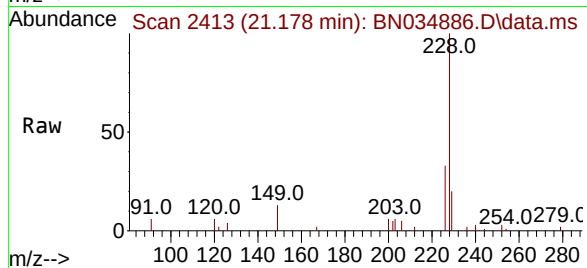
SSTDICC0.2

Tgt Ion:	228	Resp:	689
Ion Ratio	Lower	Upper	
228	100		
226	32.5	23.7	35.5
229	20.2	16.3	24.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.195 ng

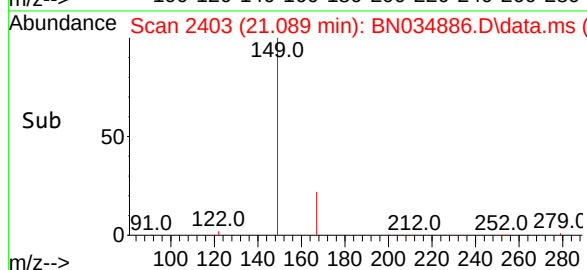
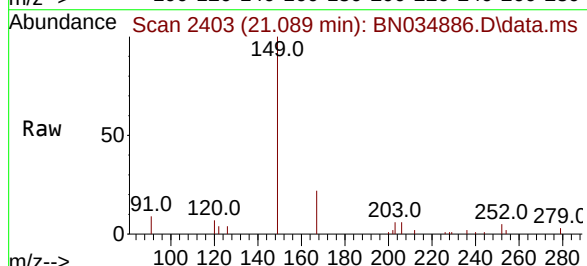
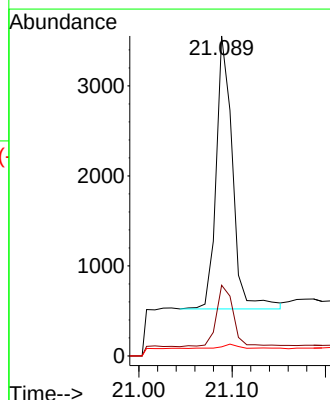
RT: 21.089 min Scan# 2403

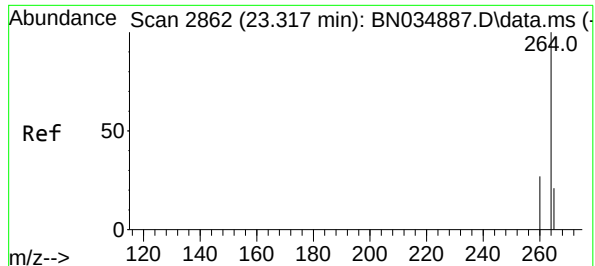
Delta R.T. -0.000 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

Tgt Ion:	149	Resp:	3687
Ion Ratio	Lower	Upper	
149	100		
167	23.8	18.1	27.1
279	1.2	1.2	1.8





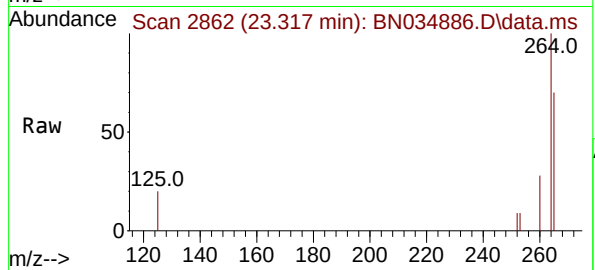
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.317 min Scan# 2862
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Instrument :

BNA_N

ClientSampleId :

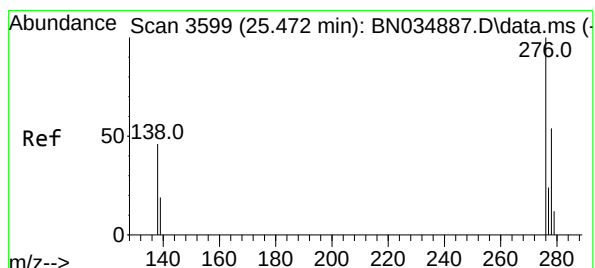
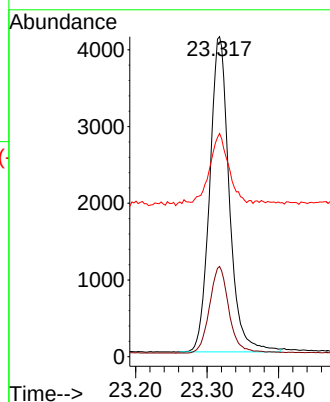
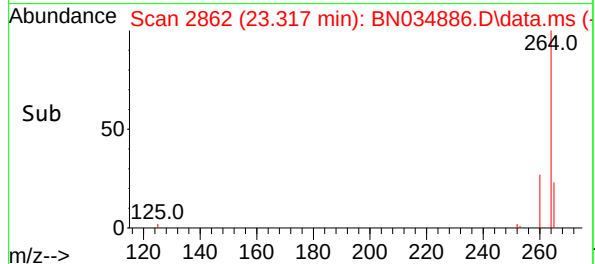
SSTDIC0.2



Tgt Ion:264 Resp: 7815
Ion Ratio Lower Upper
264 100
260 28.2 22.2 33.2
265 69.8 60.9 91.3

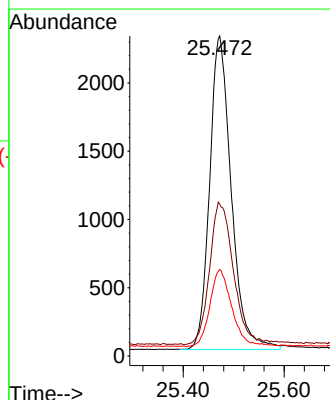
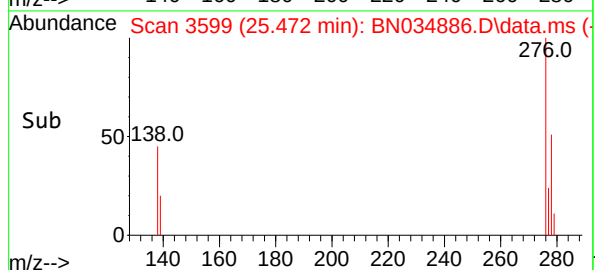
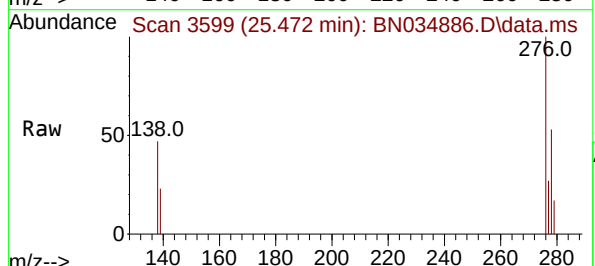
Manual Integrations
APPROVED

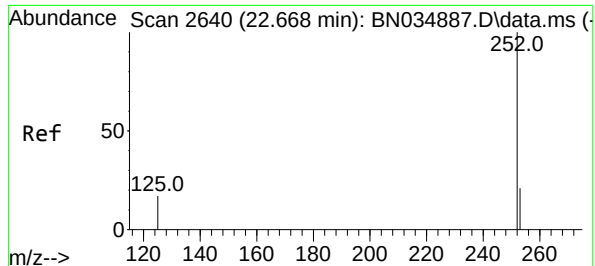
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.197 ng
RT: 25.472 min Scan# 3599
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:276 Resp: 6848
Ion Ratio Lower Upper
276 100
138 49.1 38.4 57.6
277 24.7 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.182 ng

RT: 22.671 min Scan# 2641

Delta R.T. 0.003 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

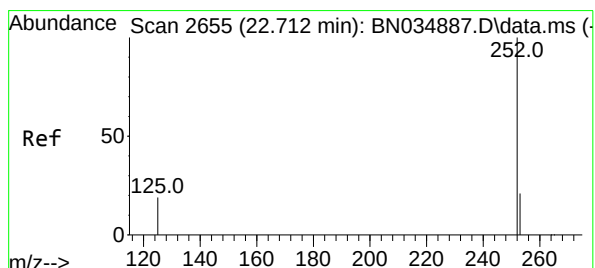
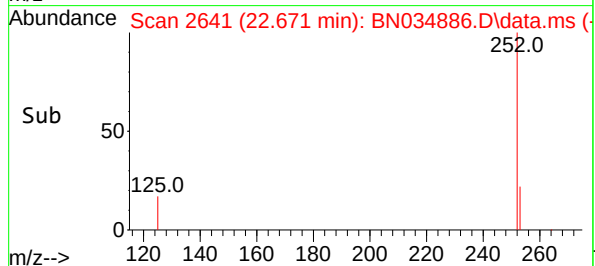
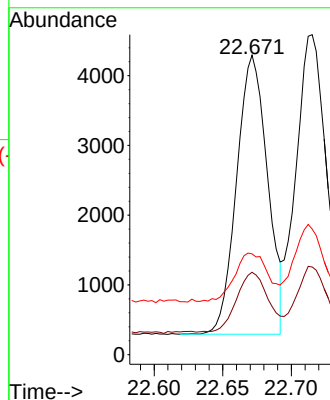
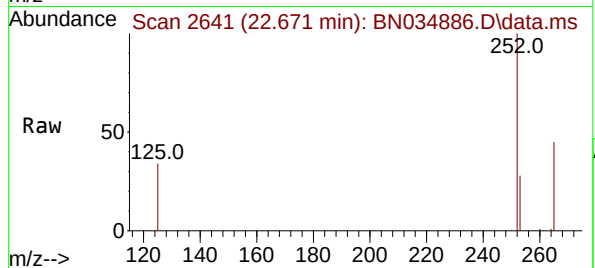
Tgt Ion:	252	Resp:	625
Ion Ratio	Lower	Upper	
252	100		
253	27.5	19.4	29.2
125	33.6	21.4	32.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#38

Benzo(k)fluoranthene

Concen: 0.191 ng m

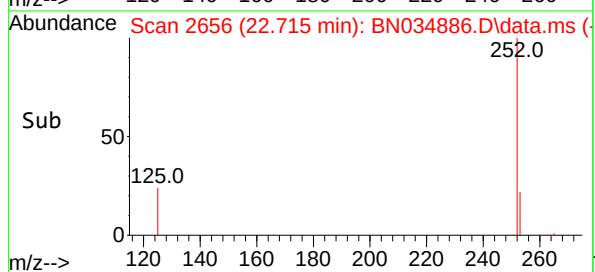
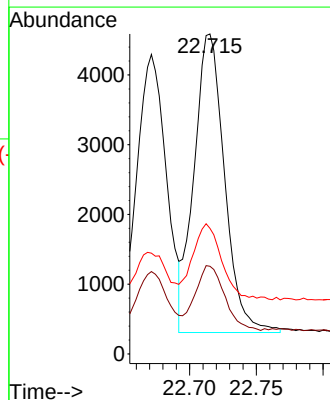
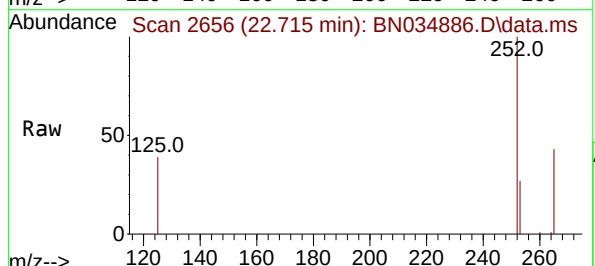
RT: 22.715 min Scan# 2656

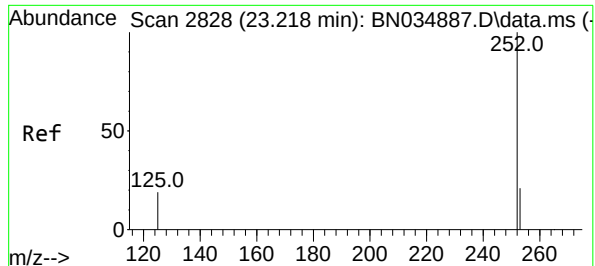
Delta R.T. 0.003 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

Tgt Ion:	252	Resp:	6824
Ion Ratio	Lower	Upper	
252	100		
253	27.4	19.8	29.8
125	39.2	22.6	33.8





#39

Benzo(a)pyrene

Concen: 0.179 ng

RT: 23.221 min Scan# 2828

Delta R.T. 0.003 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

Instrument :

BNA_N

ClientSampleId :

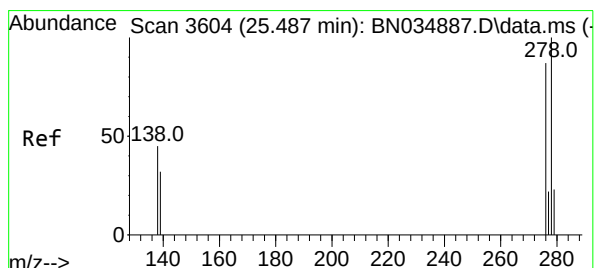
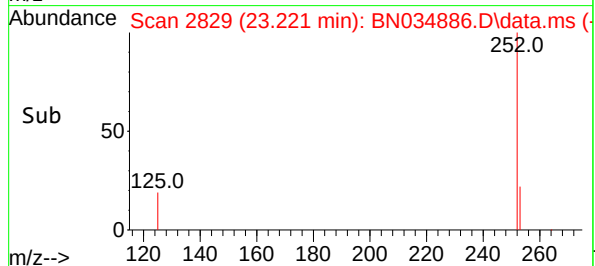
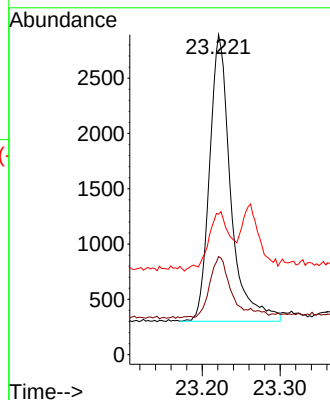
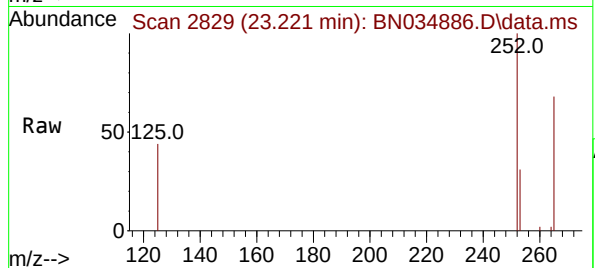
SSTDICC0.2

Tgt Ion:	252	Resp:	488
Ion Ratio	Lower	Upper	
252	100		
253	30.7	21.4	32.2
125	43.9	27.8	41.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.197 ng

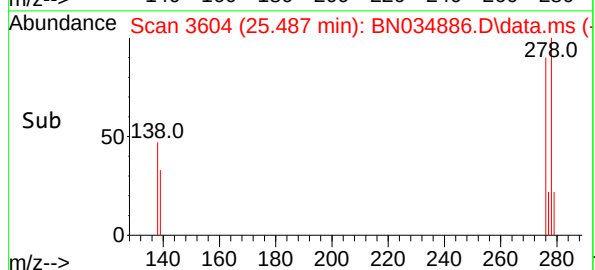
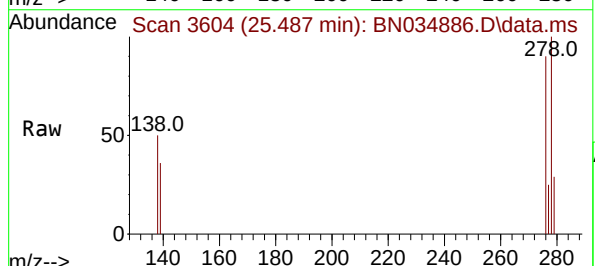
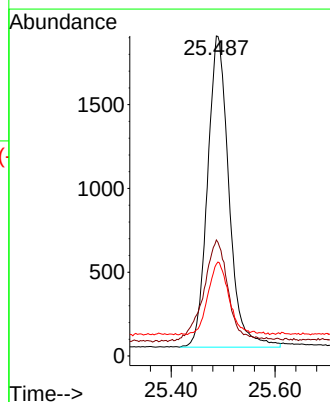
RT: 25.487 min Scan# 3604

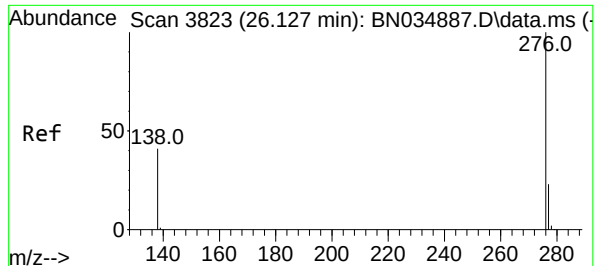
Delta R.T. 0.000 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

Tgt Ion:	278	Resp:	5297
Ion Ratio	Lower	Upper	
278	100		
139	36.3	27.2	40.8
279	28.7	21.4	32.0





#41

Benzo(g,h,i)perylene

Concen: 0.196 ng

RT: 26.124 min Scan# 3823

Delta R.T. -0.003 min

Lab File: BN034886.D

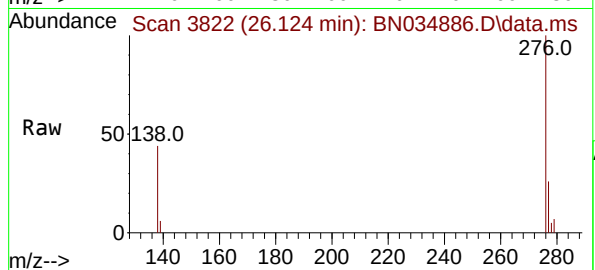
Acq: 07 Nov 2024 10:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 560

Ion Ratio Lower Upper

276 100

277 26.4 20.2 30.2

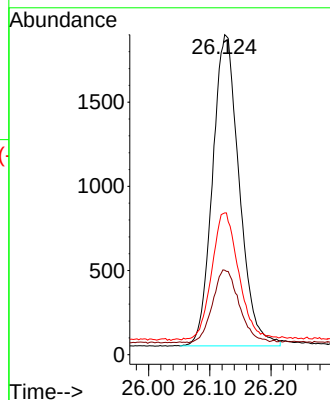
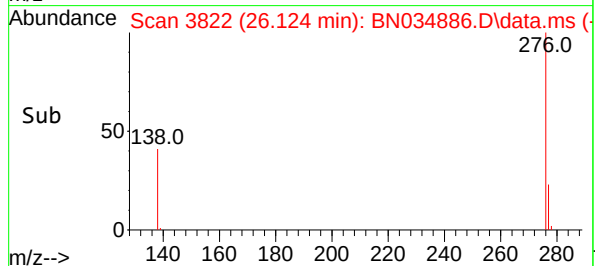
138 44.3 33.9 50.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
 Data File : BN034887.D
 Acq On : 07 Nov 2024 11:24
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Nov 07 14:40:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 07 14:34:20 2024
 Response via : Initial Calibration

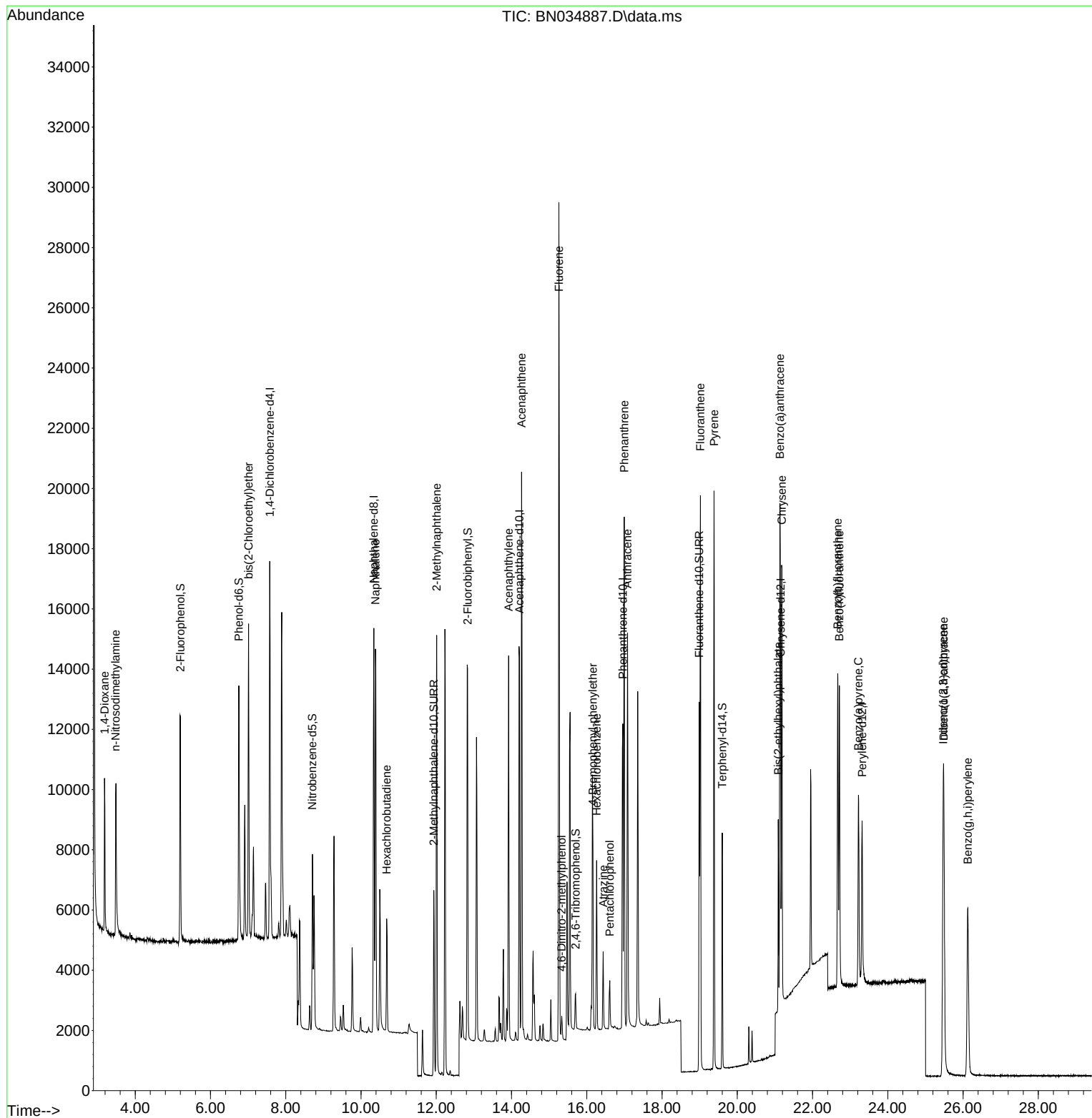
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	5878	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	16847	0.400	ng	0.00
13) Acenaphthene-d10	14.211	164	7757	0.400	ng	0.00
19) Phenanthrene-d10	16.957	188	14504	0.400	ng	0.00
29) Chrysene-d12	21.151	240	8221	0.400	ng	0.00
35) Perylene-d12	23.317	264	6835	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.199	112	5922	0.361	ng	0.00
5) Phenol-d6	6.752	99	7635	0.351	ng	0.00
8) Nitrobenzene-d5	8.707	82	4711	0.359	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	8271	0.360	ng	0.00
14) 2,4,6-Tribromophenol	15.704	330	673	0.336	ng	0.00
15) 2-Fluorobiphenyl	12.832	172	11948	0.365	ng	0.00
27) Fluoranthene-d10	18.987	212	11613	0.355	ng	0.00
31) Terphenyl-d14	19.600	244	6110	0.397	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.184	88	2785	0.375	ng	100
3) n-Nitrosodimethylamine	3.480	42	3650	0.364	ng	100
6) bis(2-Chloroethyl)ether	7.011	93	6876	0.367	ng	100
9) Naphthalene	10.383	128	17316	0.370	ng	100
10) Hexachlorobutadiene	10.682	225	2815	0.378	ng	# 100
12) 2-Methylnaphthalene	12.010	142	10308	0.360	ng	100
16) Acenaphthylene	13.923	152	12972	0.347	ng	100
17) Acenaphthene	14.265	154	9121	0.352	ng	100
18) Fluorene	15.259	166	11352	0.352	ng	100
20) 4,6-Dinitro-2-methylph...	15.334	198	463	0.364	ng	100
21) 4-Bromophenyl-phenylether	16.163	248	2927	0.379	ng	100
22) Hexachlorobenzene	16.262	284	3657	0.393	ng	100
23) Atrazine	16.436	200	1932	0.345	ng	100
24) Pentachlorophenol	16.610	266	799	0.357	ng	100
25) Phenanthrene	16.994	178	16853	0.379	ng	100
26) Anthracene	17.081	178	13974	0.364	ng	100
28) Fluoranthene	19.020	202	16466	0.352	ng	100
30) Pyrene	19.382	202	16361	0.393	ng	100
32) Benzo(a)anthracene	21.133	228	11696	0.365	ng	100
33) Chrysene	21.187	228	13017	0.384	ng	100
34) Bis(2-ethylhexyl)phtha...	21.089	149	5918	0.322	ng	100
36) Indeno(1,2,3-cd)pyrene	25.472	276	11482	0.377	ng	100
37) Benzo(b)fluoranthene	22.668	252	11973	0.398	ng	100
38) Benzo(k)fluoranthene	22.712	252	11786	0.376	ng	100
39) Benzo(a)pyrene	23.218	252	9153	0.384	ng	100
40) Dibenzo(a,h)anthracene	25.487	278	8916	0.378	ng	100
41) Benzo(g,h,i)perylene	26.127	276	10138	0.405	ng	100

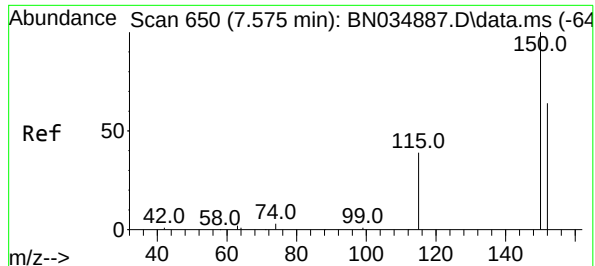
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
Data File : BN034887.D
Acq On : 07 Nov 2024 11:24
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 07 14:40:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 14:34:20 2024
Response via : Initial Calibration

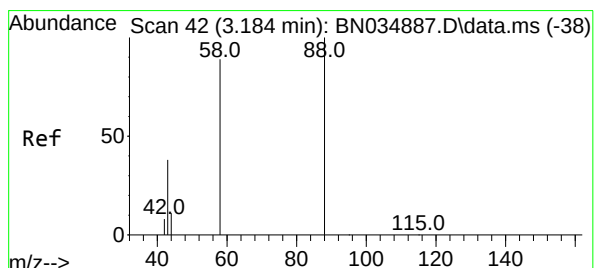
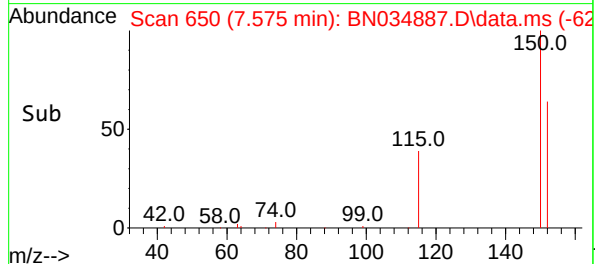
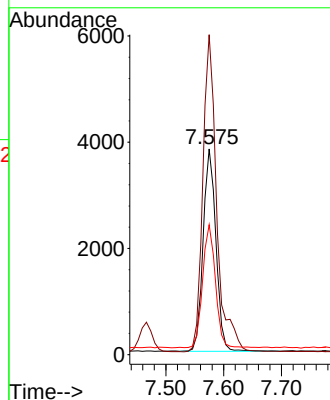
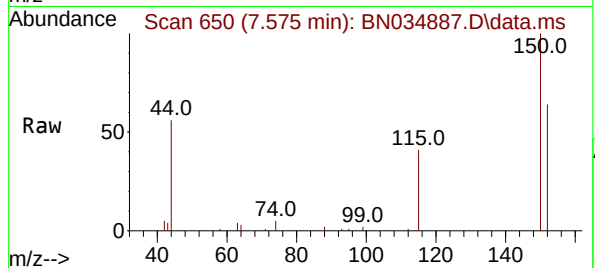




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

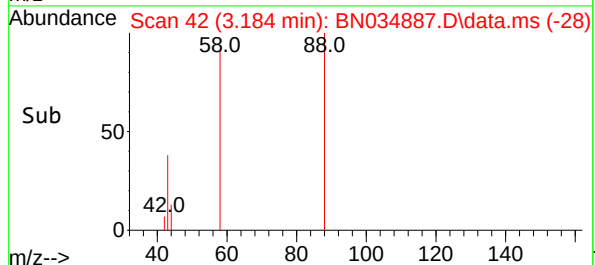
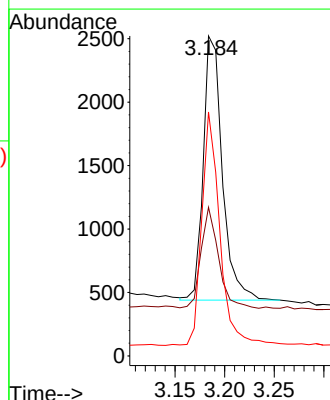
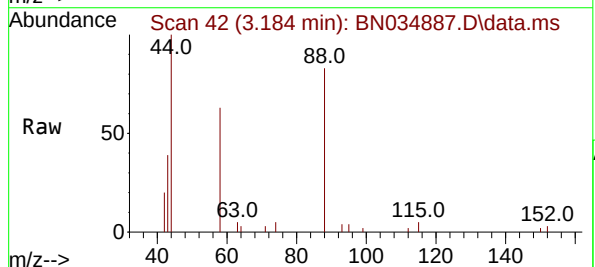
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

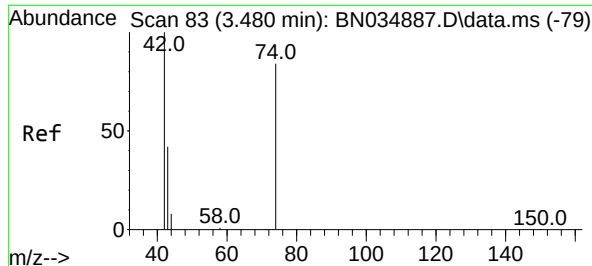
Tgt Ion:152 Resp: 5878
Ion Ratio Lower Upper
152 100
150 155.5 124.4 186.6
115 63.1 50.5 75.7



#2
1,4-Dioxane
Concen: 0.375 ng
RT: 3.184 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

Tgt Ion: 88 Resp: 2785
Ion Ratio Lower Upper
88 100
43 35.2 28.2 42.2
58 83.9 67.1 100.7

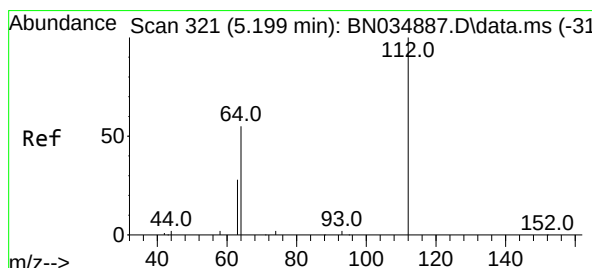
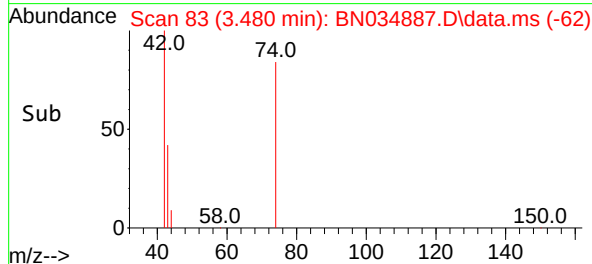
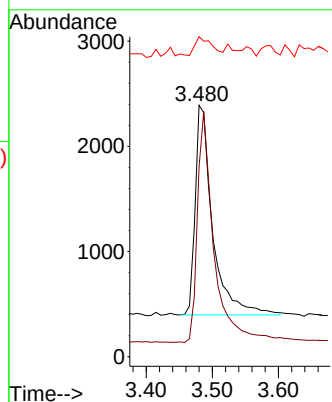
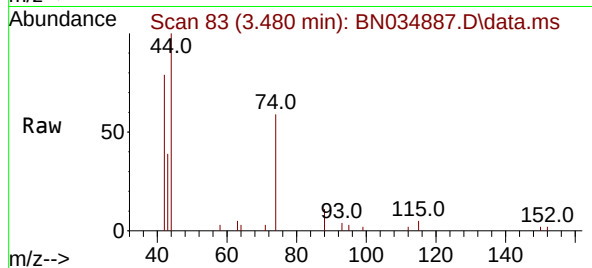




#3
n-Nitrosodimethylamine
Concen: 0.364 ng
RT: 3.480 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

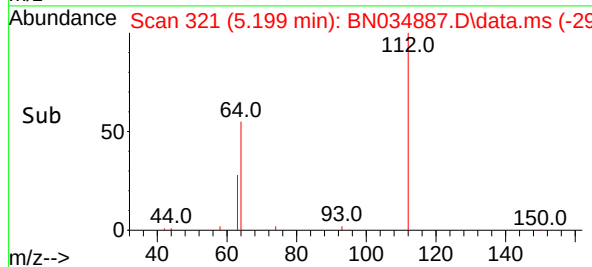
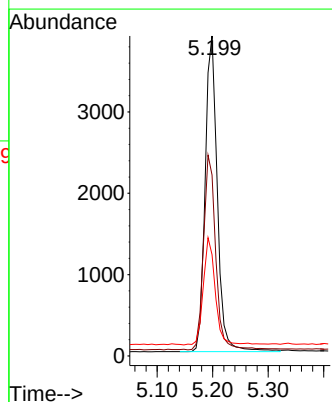
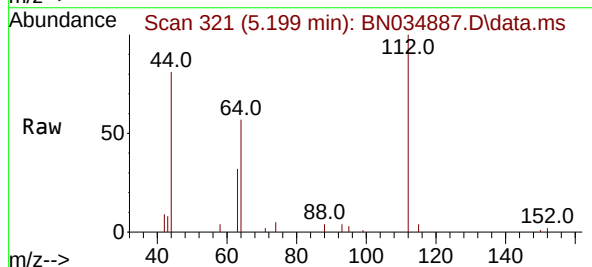
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

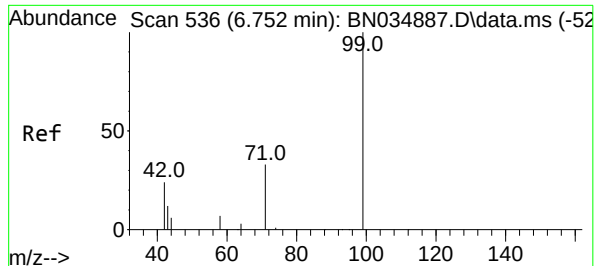
Tgt Ion: 42 Resp: 3650
Ion Ratio Lower Upper
42 100
74 104.3 83.4 125.2
44 10.7 8.6 12.8



#4
2-Fluorophenol
Concen: 0.361 ng
RT: 5.199 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

Tgt Ion: 112 Resp: 5922
Ion Ratio Lower Upper
112 100
64 62.0 49.6 74.4
63 32.9 26.3 39.5

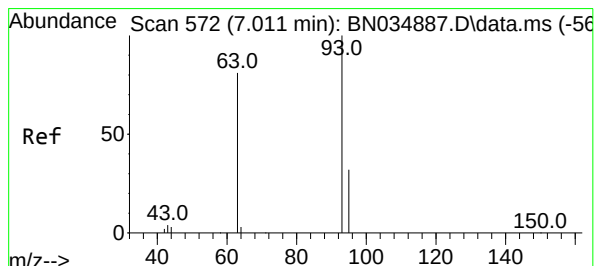
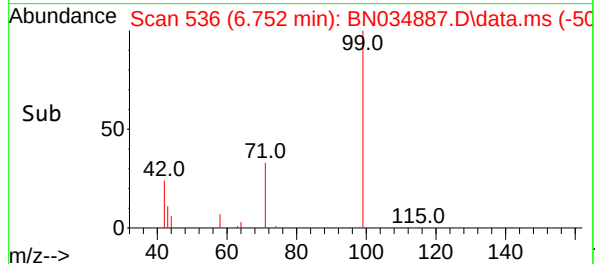
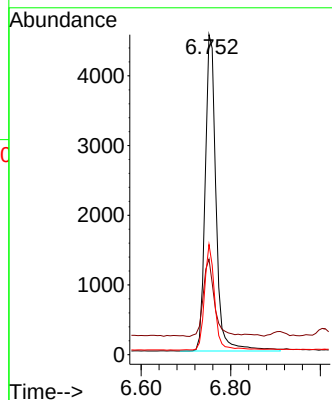
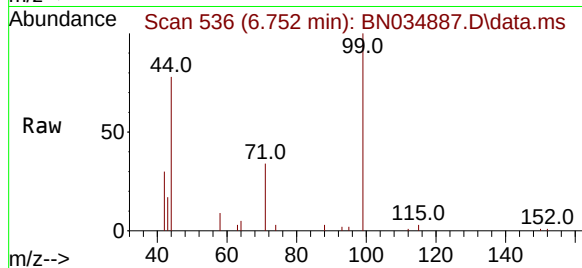




#5
Phenol-d6
Concen: 0.351 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

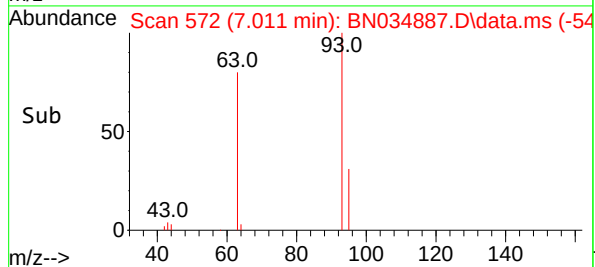
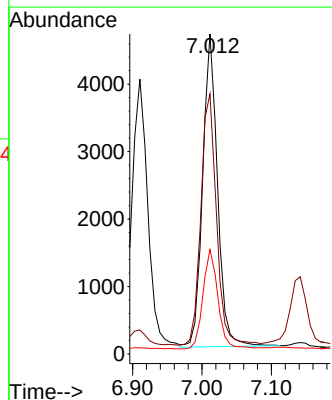
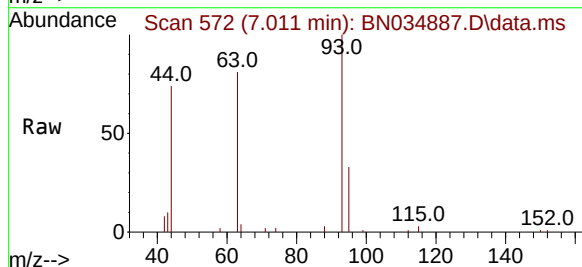
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

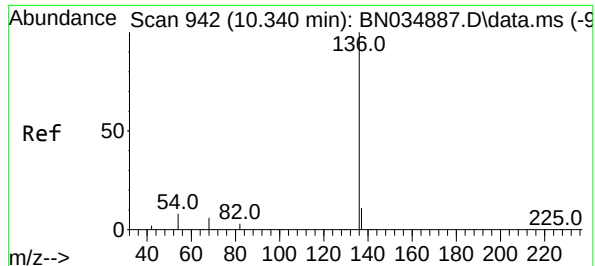
Tgt Ion:	99	Resp:	7635
Ion	Ratio	Lower	Upper
99	100		
42	25.2	20.2	30.2
71	31.7	25.4	38.0



#6
bis(2-Chloroethyl)ether
Concen: 0.367 ng
RT: 7.011 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

Tgt Ion:	93	Resp:	6876
Ion	Ratio	Lower	Upper
93	100		
63	84.4	67.5	101.3
95	32.1	25.7	38.5

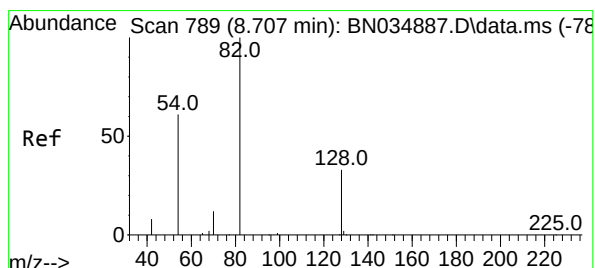
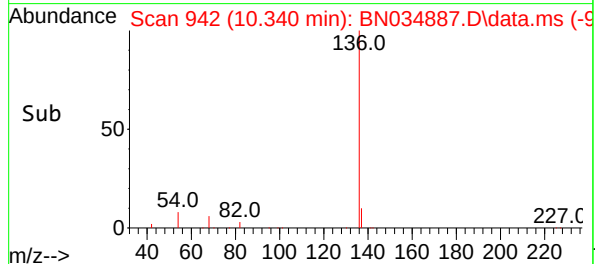
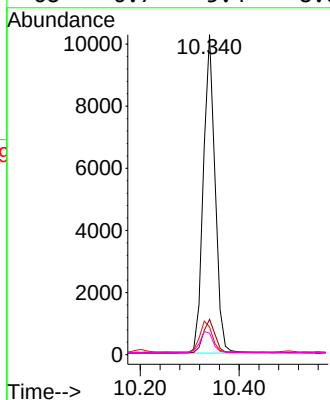
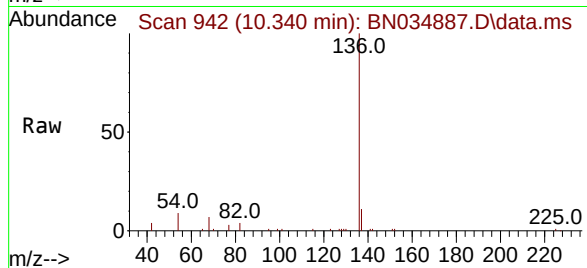




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

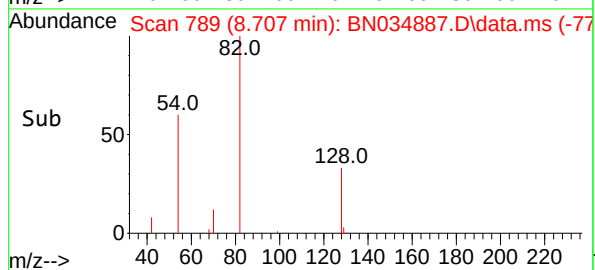
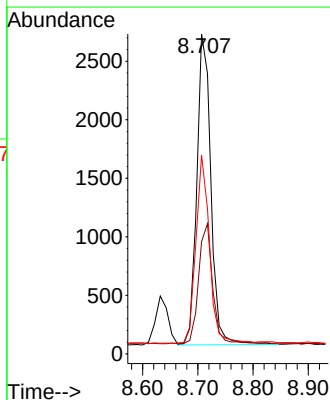
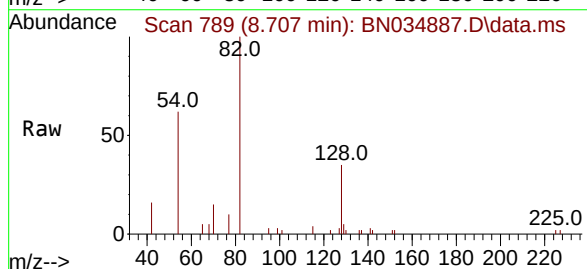
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

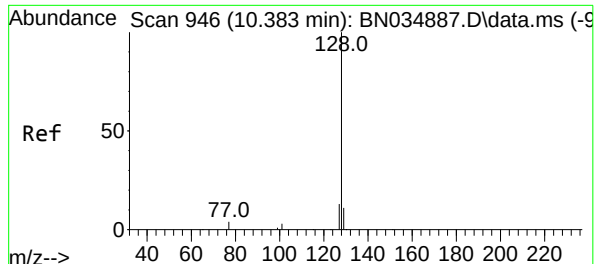
Tgt Ion:	136	Resp:	16847
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.6	6.9	10.3
68	6.7	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

Tgt Ion:	82	Resp:	4711
Ion	Ratio	Lower	Upper
82	100		
128	35.1	28.1	42.1
54	62.2	49.8	74.6

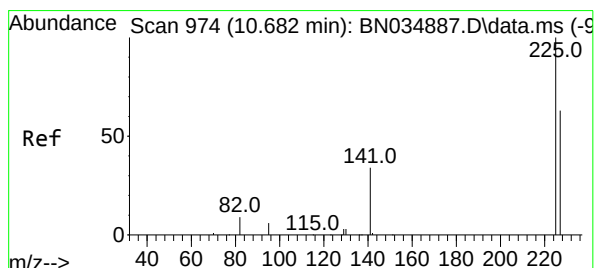
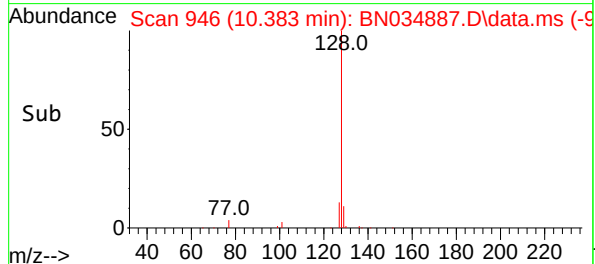
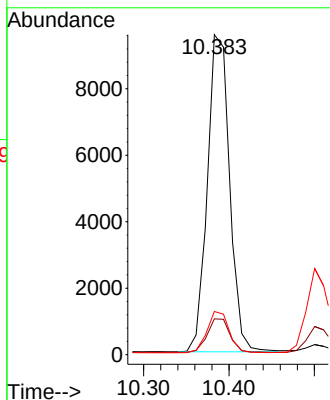
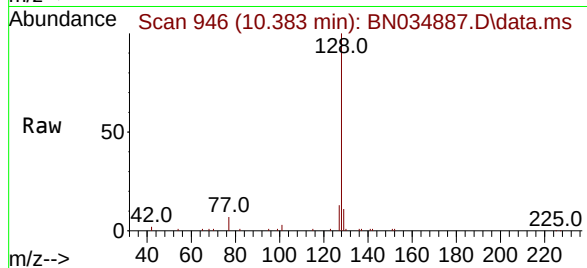




#9
Naphthalene
Concen: 0.370 ng
RT: 10.383 min Scan# 946
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

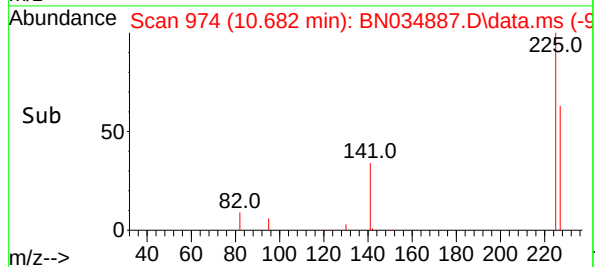
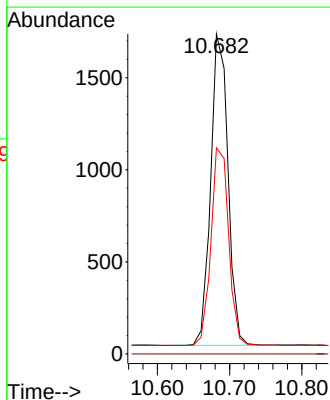
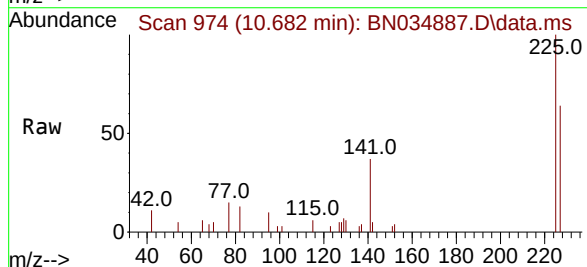
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

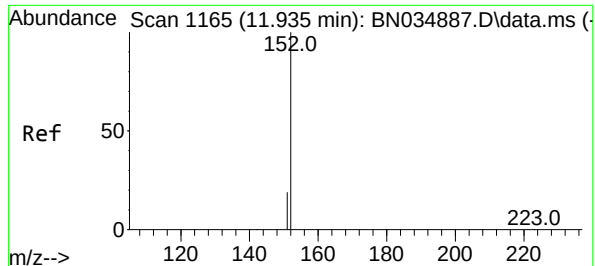
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.4
127	13.5	10.8	16.2



#10
Hexachlorobutadiene
Concen: 0.378 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.0	52.0	78.0

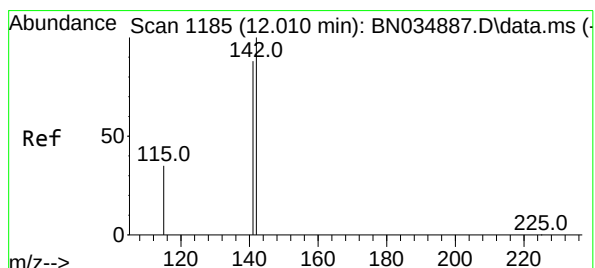
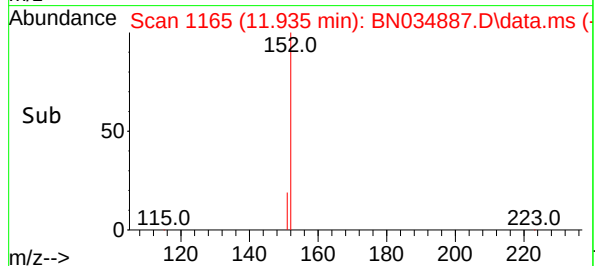
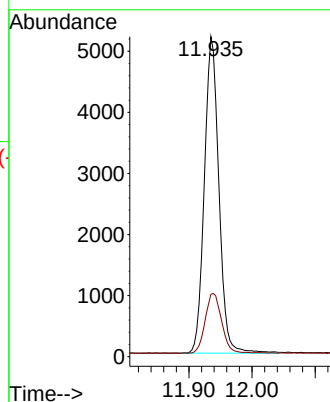
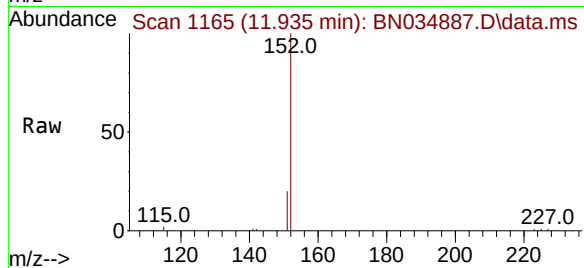




#11
2-Methylnaphthalene-d10
Concen: 0.360 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

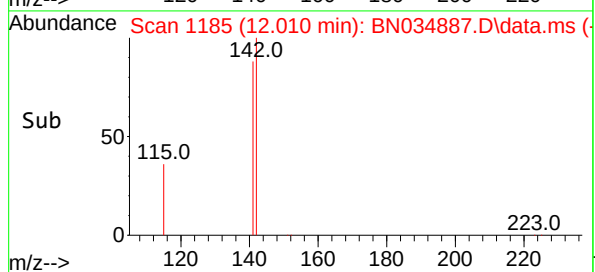
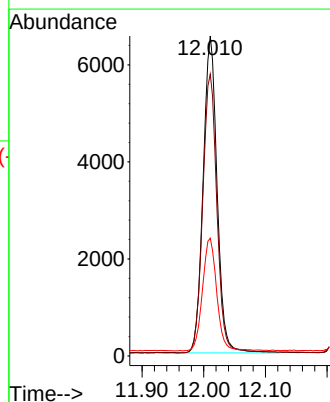
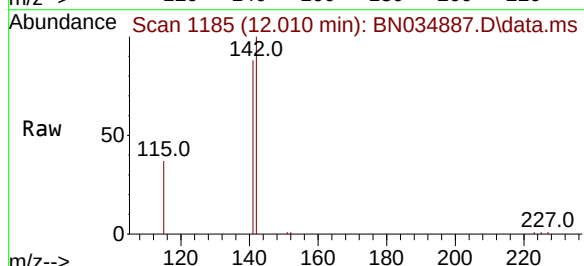
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

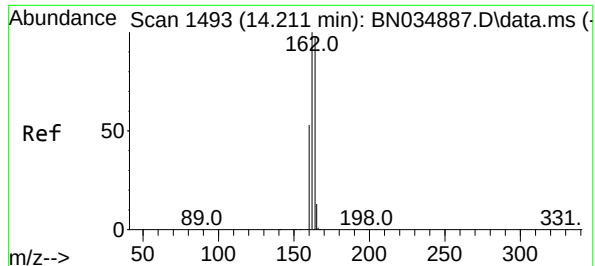
Tgt Ion:152 Resp: 8271
Ion Ratio Lower Upper
152 100
151 21.4 17.1 25.7



#12
2-Methylnaphthalene
Concen: 0.360 ng
RT: 12.010 min Scan# 1185
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

Tgt Ion:142 Resp: 10308
Ion Ratio Lower Upper
142 100
141 88.1 70.5 105.7
115 36.8 29.4 44.2

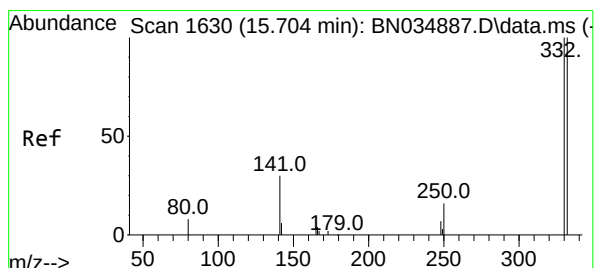
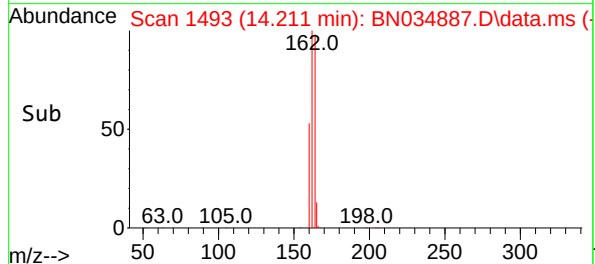
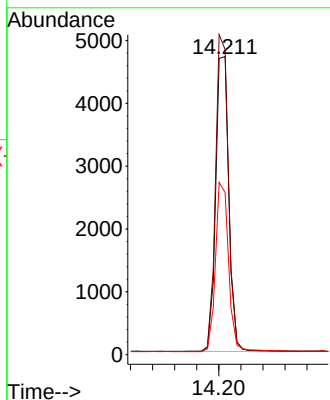
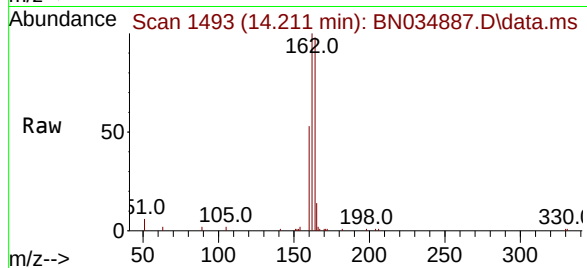




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.211 min Scan# 1493
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

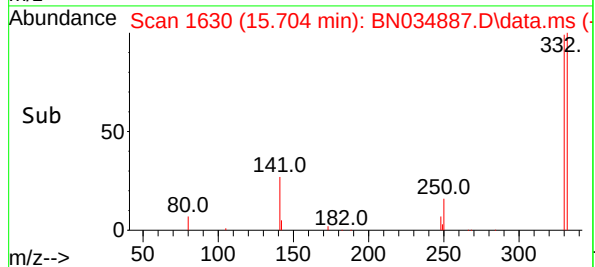
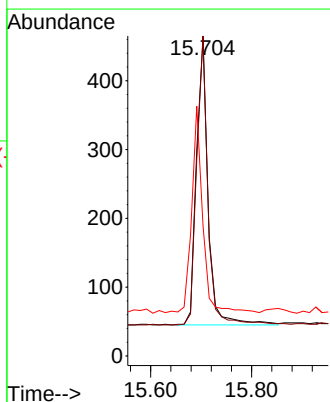
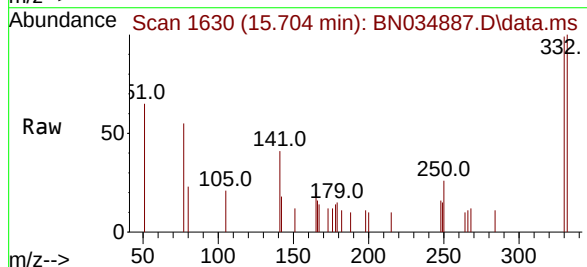
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

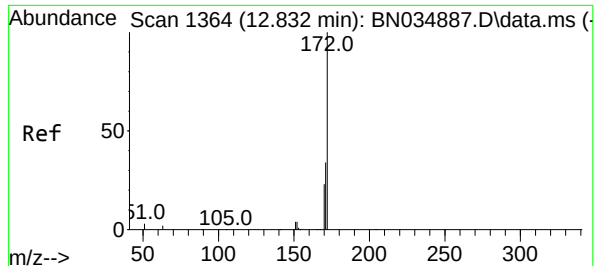
Tgt Ion:164 Resp: 7757
Ion Ratio Lower Upper
164 100
162 102.4 81.9 122.9
160 54.4 43.5 65.3



#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.704 min Scan# 1630
Delta R.T. -0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

Tgt Ion:330 Resp: 673
Ion Ratio Lower Upper
330 100
332 96.4 77.1 115.7
141 67.6 54.1 81.1





#15

2-Fluorobiphenyl

Concen: 0.365 ng

RT: 12.832 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

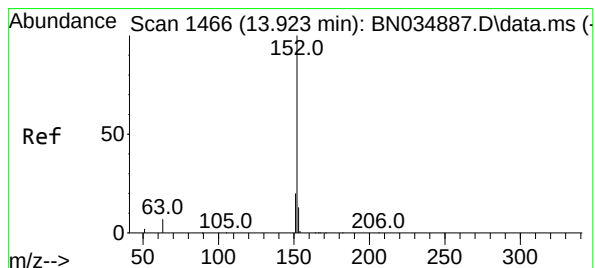
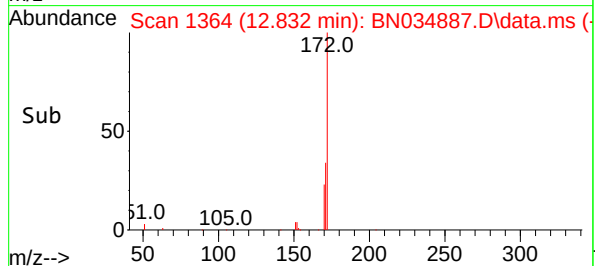
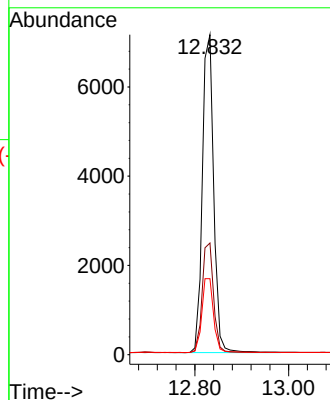
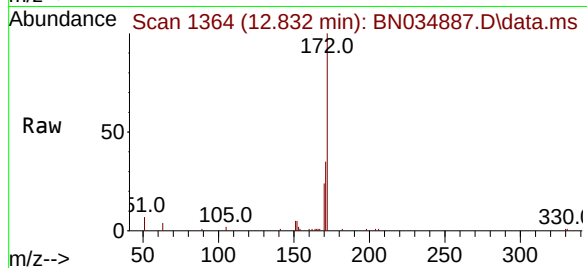
Tgt Ion:172 Resp: 11948

Ion Ratio Lower Upper

172 100

171 34.9 27.9 41.9

170 23.7 19.0 28.4



#16

Acenaphthylene

Concen: 0.347 ng

RT: 13.923 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

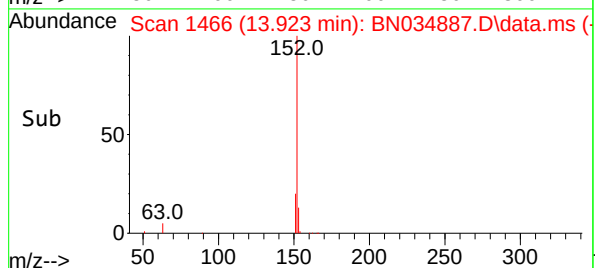
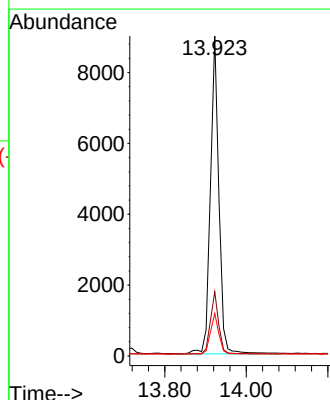
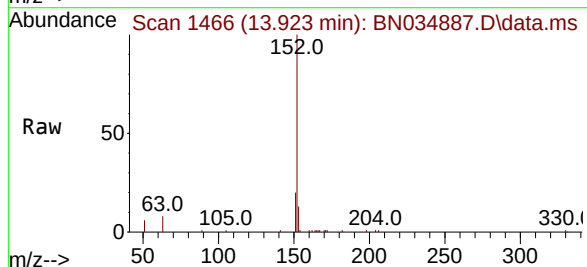
Tgt Ion:152 Resp: 12972

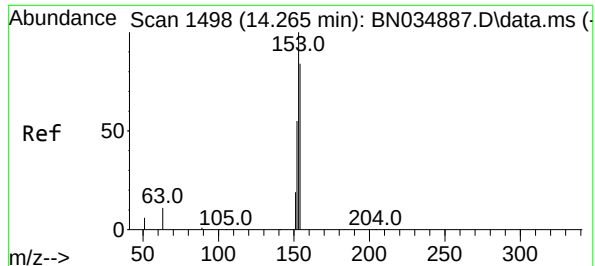
Ion Ratio Lower Upper

152 100

151 19.0 15.2 22.8

153 13.0 10.4 15.6





#17

Acenaphthene

Concen: 0.352 ng

RT: 14.265 min Scan# 1498

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

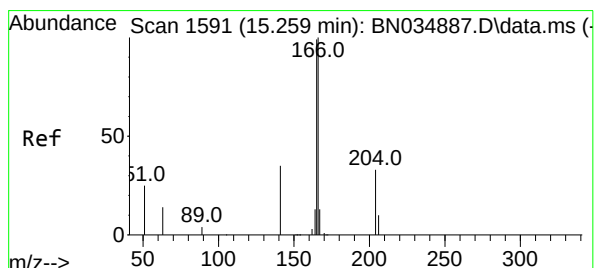
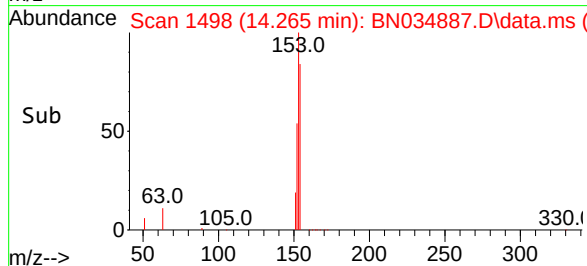
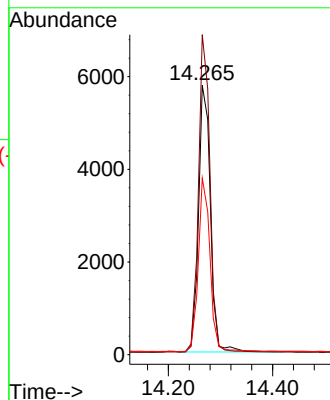
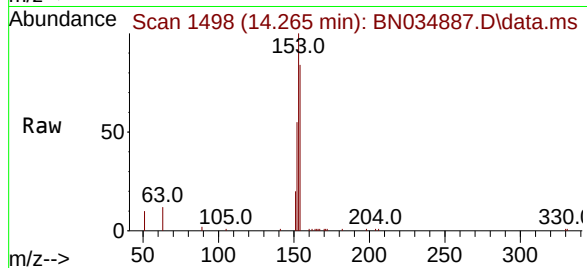
Tgt Ion:154 Resp: 9121

Ion Ratio Lower Upper

154 100

153 115.2 92.2 138.2

152 63.9 51.1 76.7



#18

Fluorene

Concen: 0.352 ng

RT: 15.259 min Scan# 1591

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

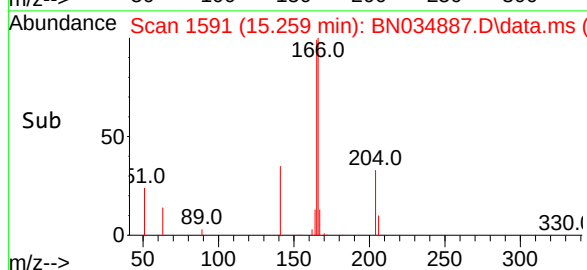
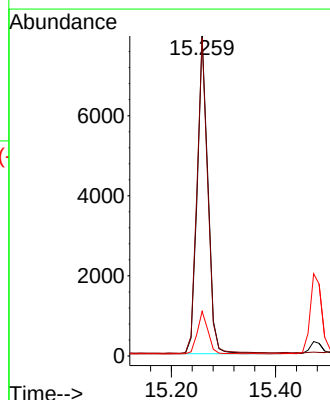
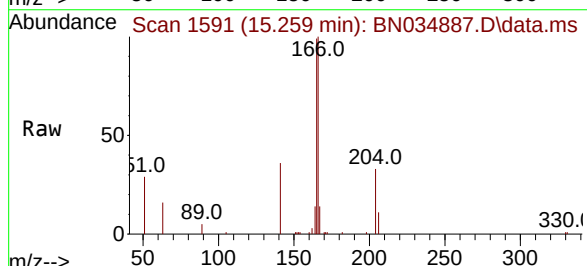
Tgt Ion:166 Resp: 11352

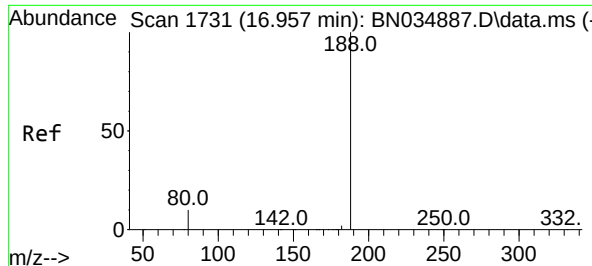
Ion Ratio Lower Upper

166 100

165 99.4 79.5 119.3

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.957 min Scan# 1731

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

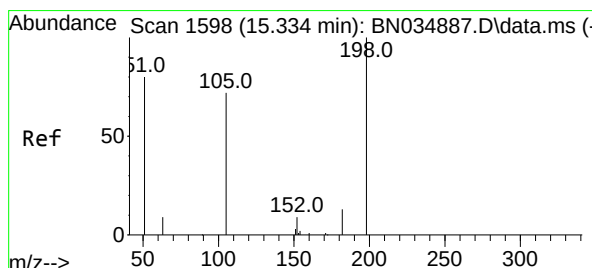
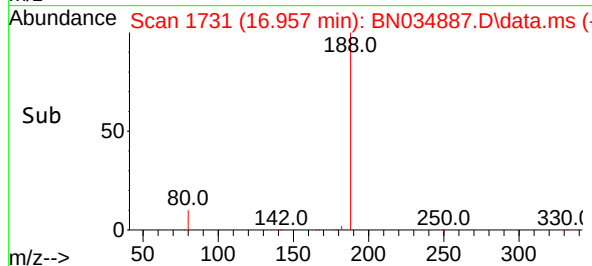
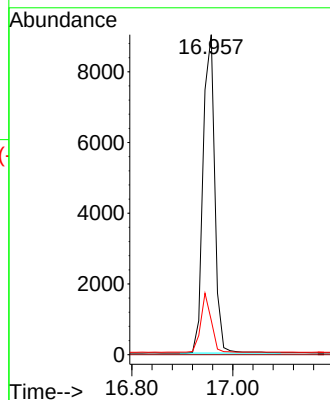
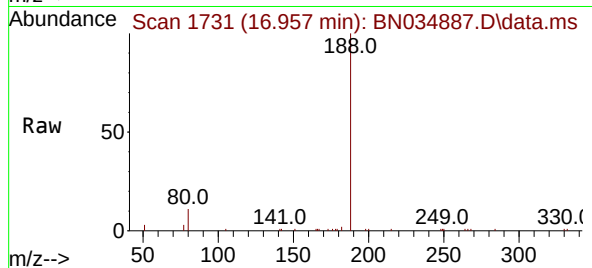
Tgt Ion:188 Resp: 14504

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.7 8.6 12.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.364 ng

RT: 15.334 min Scan# 1598

Delta R.T. -0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

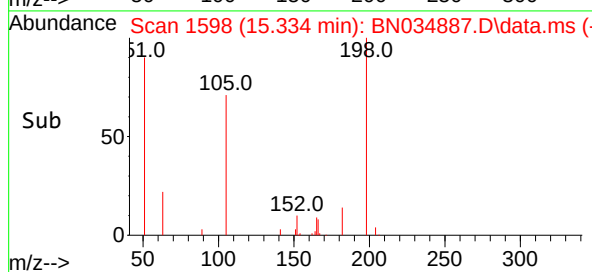
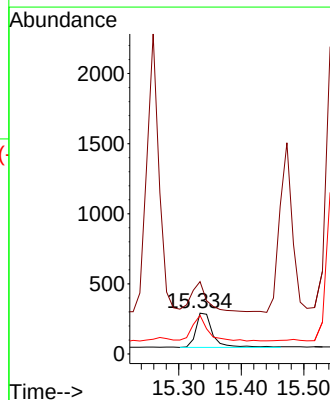
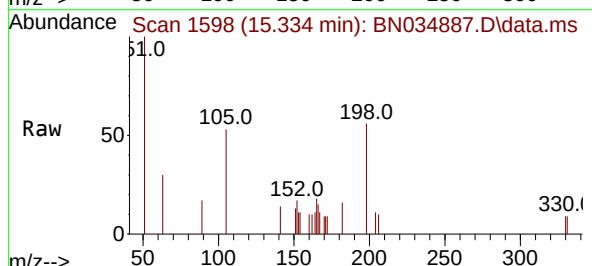
Tgt Ion:198 Resp: 463

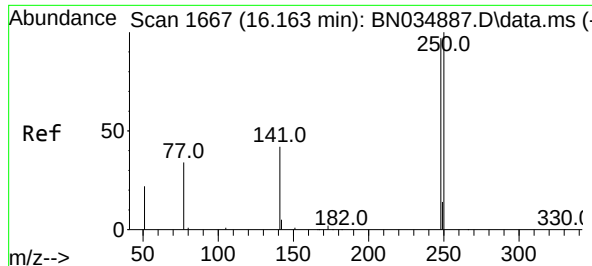
Ion Ratio Lower Upper

198 100

51 177.3 141.8 212.8

105 94.5 75.6 113.4

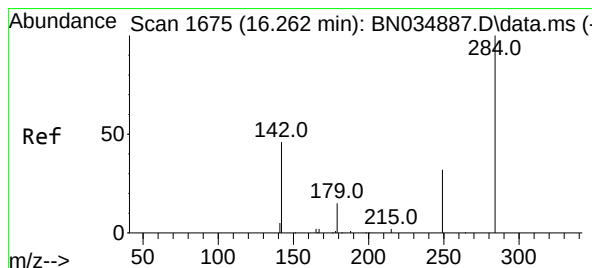
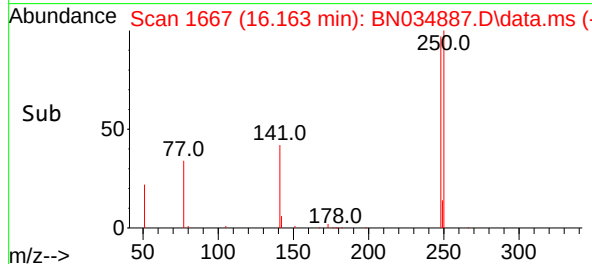
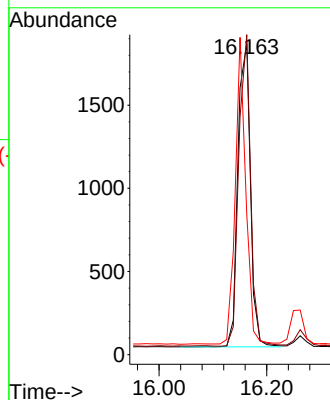
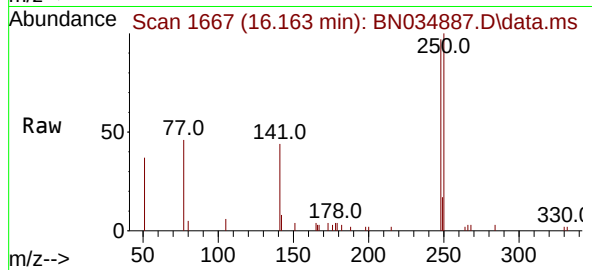




#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.163 min Scan# 1667
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

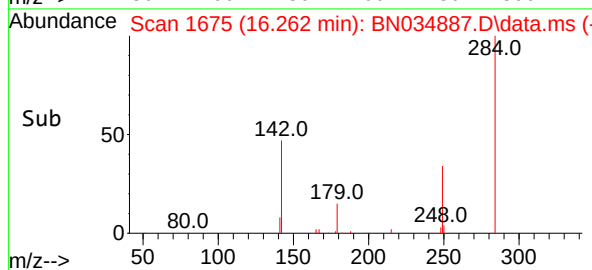
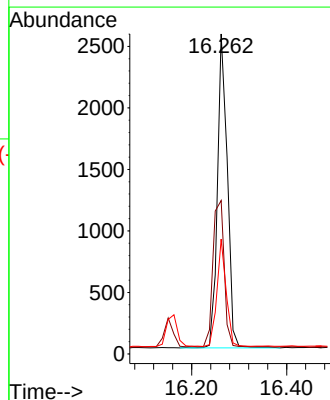
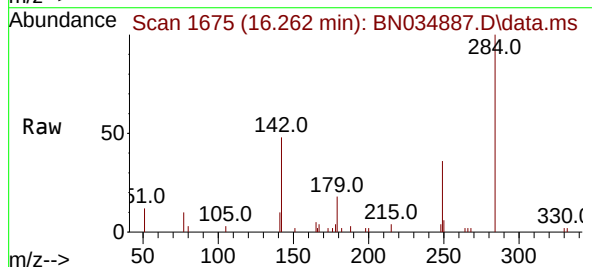
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

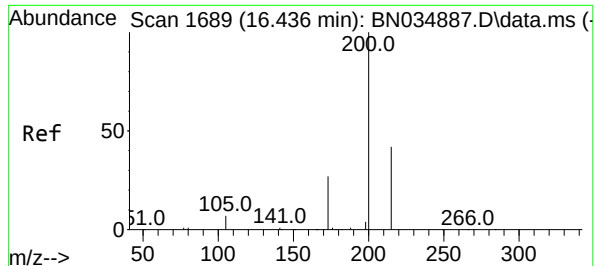
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.8	82.2	123.4
141	45.2	36.2	54.2



#22
Hexachlorobenzene
Concen: 0.393 ng
RT: 16.262 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

Tgt Ion	Ratio	Lower	Upper
284	100		
142	54.3	43.4	65.2
249	32.2	25.8	38.6





#23

Atrazine

Concen: 0.345 ng

RT: 16.436 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

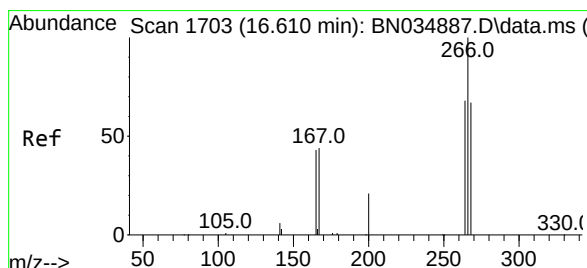
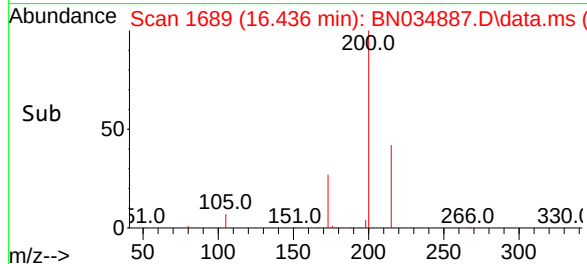
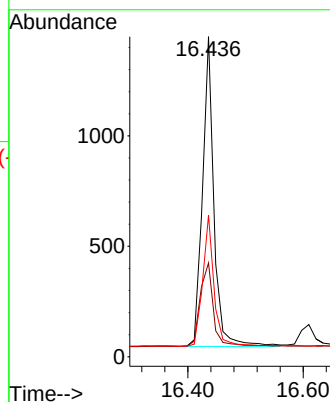
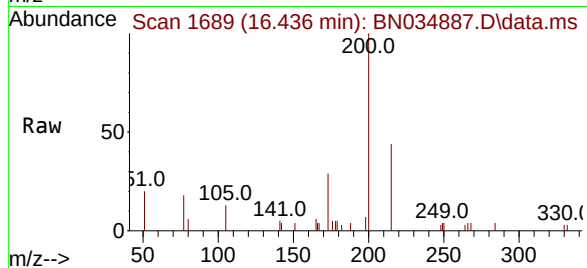
Tgt Ion:200 Resp: 1932

Ion Ratio Lower Upper

200 100

173 29.3 23.4 35.2

215 44.2 35.4 53.0



#24

Pentachlorophenol

Concen: 0.357 ng

RT: 16.610 min Scan# 1703

Delta R.T. -0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

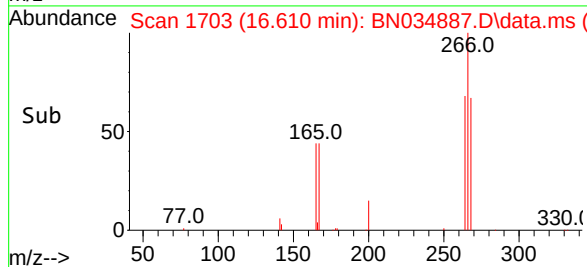
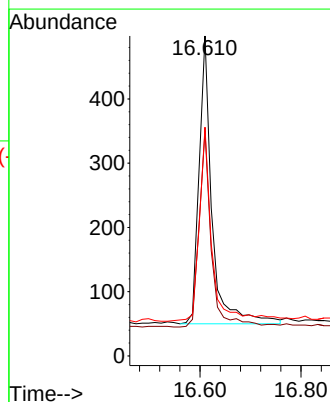
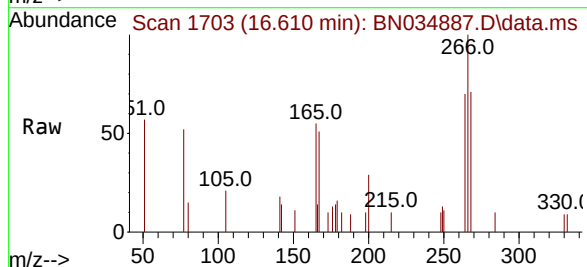
Tgt Ion:266 Resp: 799

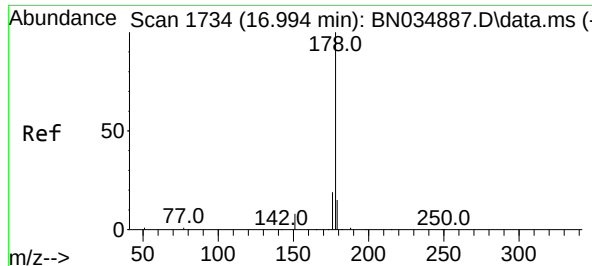
Ion Ratio Lower Upper

266 100

264 64.1 51.3 76.9

268 66.3 53.0 79.6

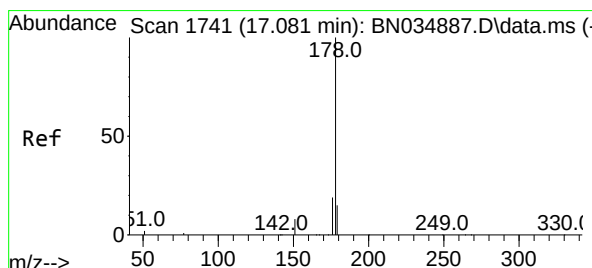
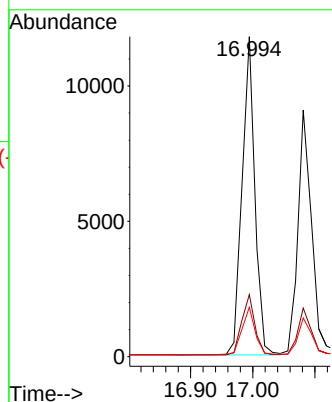
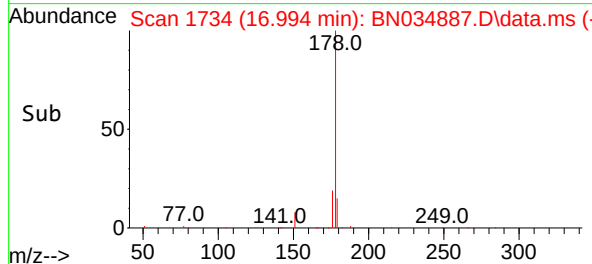
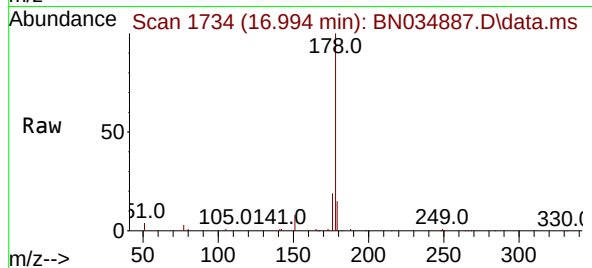




#25
Phenanthrene
Concen: 0.379 ng
RT: 16.994 min Scan# 1734
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

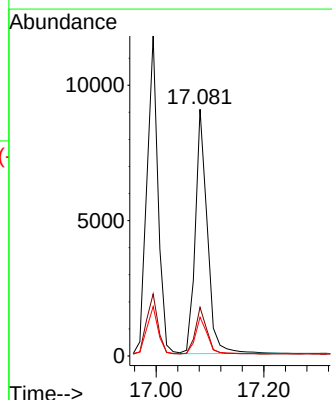
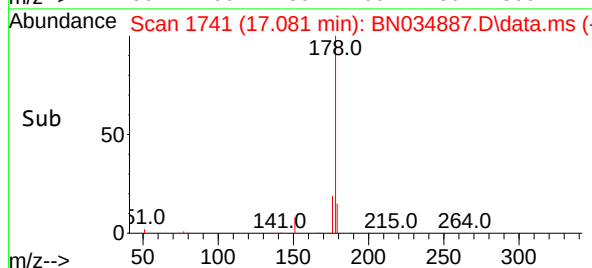
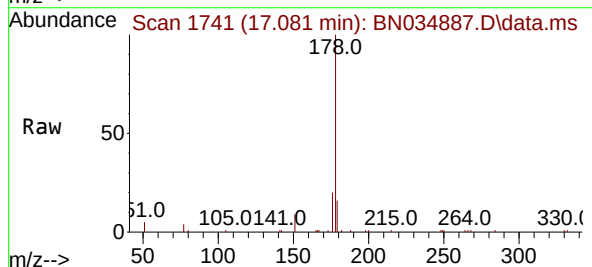
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

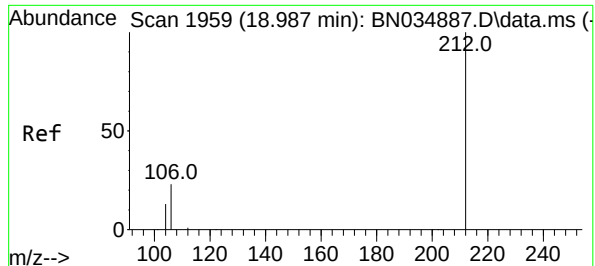
Tgt Ion:178 Resp: 16853
Ion Ratio Lower Upper
178 100
176 19.4 15.5 23.3
179 15.2 12.2 18.2



#26
Anthracene
Concen: 0.364 ng
RT: 17.081 min Scan# 1741
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

Tgt Ion:178 Resp: 13974
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.1 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.355 ng

RT: 18.987 min Scan# 1959

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

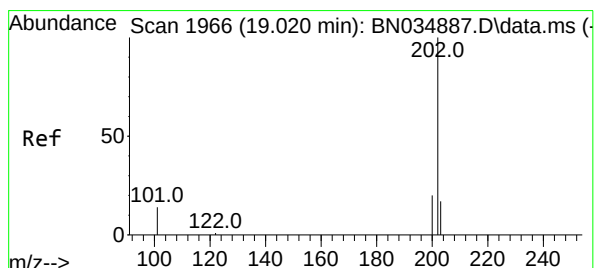
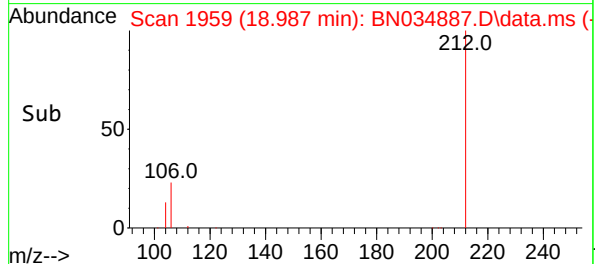
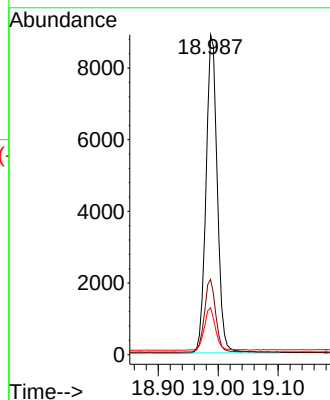
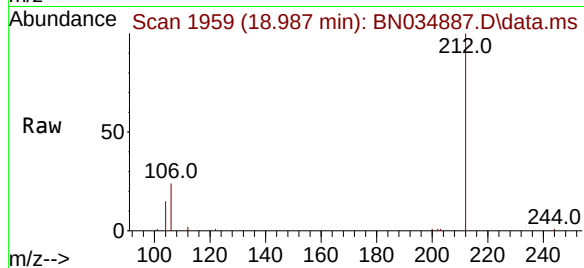
Tgt Ion:212 Resp: 11613

Ion Ratio Lower Upper

212 100

106 22.8 18.2 27.4

104 13.2 10.6 15.8



#28

Fluoranthene

Concen: 0.352 ng

RT: 19.020 min Scan# 1966

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

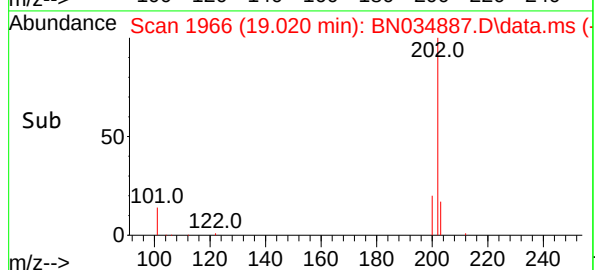
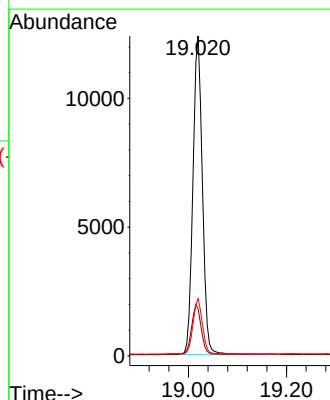
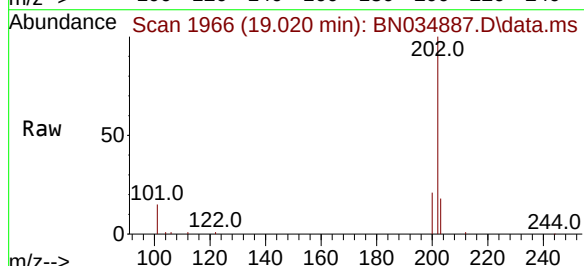
Tgt Ion:202 Resp: 16466

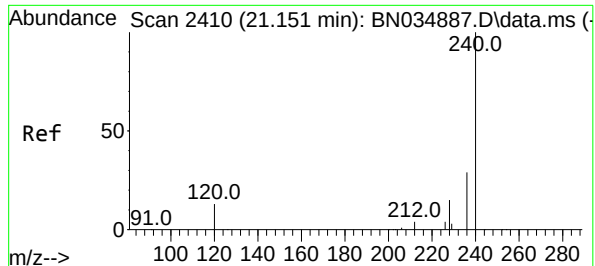
Ion Ratio Lower Upper

202 100

101 15.9 12.7 19.1

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.151 min Scan# 2410

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

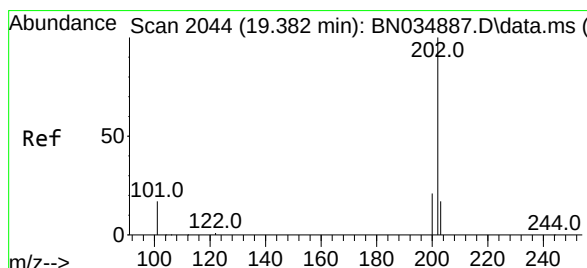
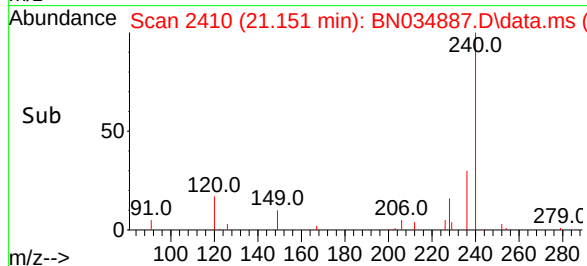
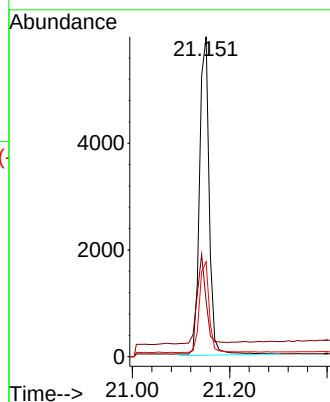
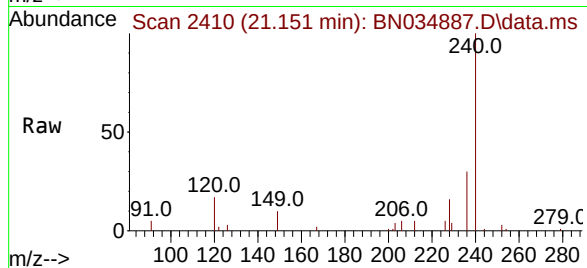
Tgt Ion:240 Resp: 8221

Ion Ratio Lower Upper

240 100

120 17.3 13.8 20.8

236 29.7 23.8 35.6



#30

Pyrene

Concen: 0.393 ng

RT: 19.382 min Scan# 2044

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

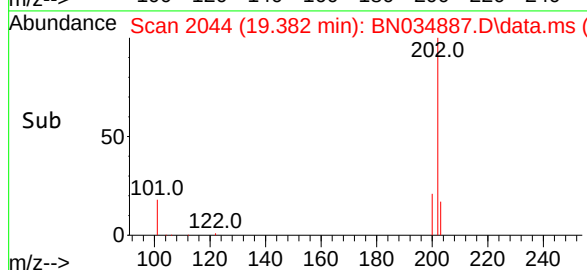
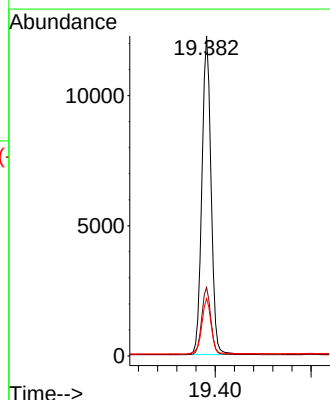
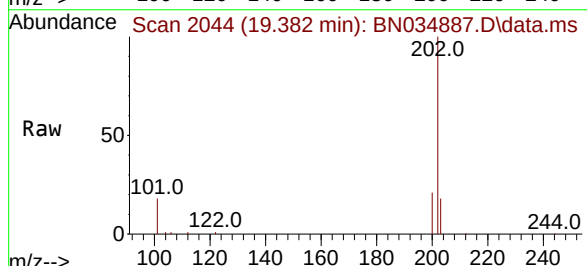
Tgt Ion:202 Resp: 16361

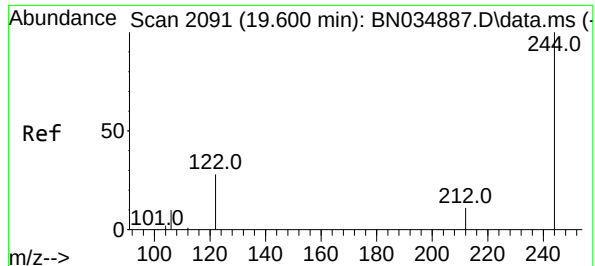
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.6 14.1 21.1

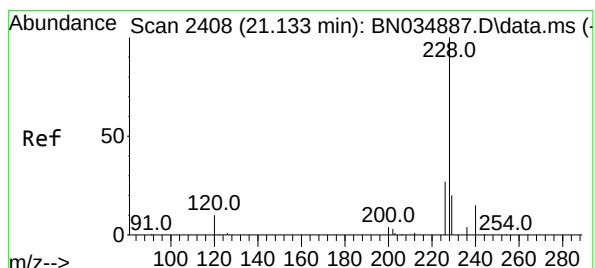
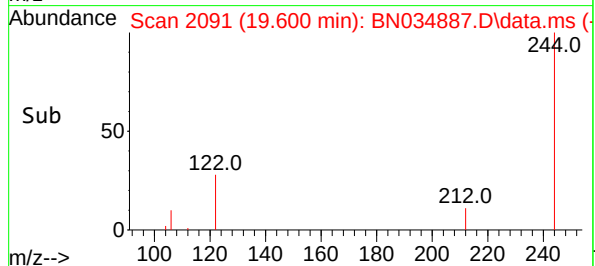
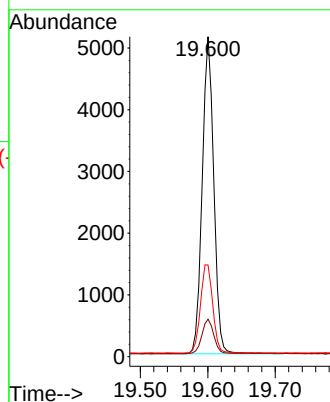
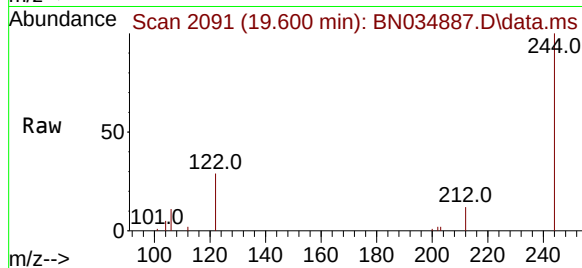




#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.600 min Scan# 2091
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

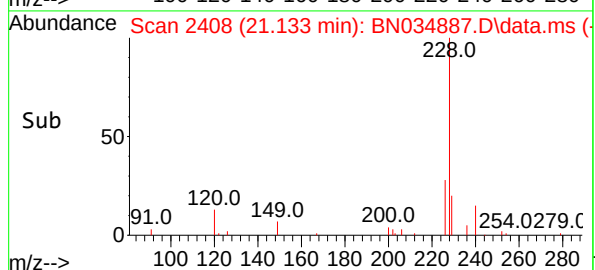
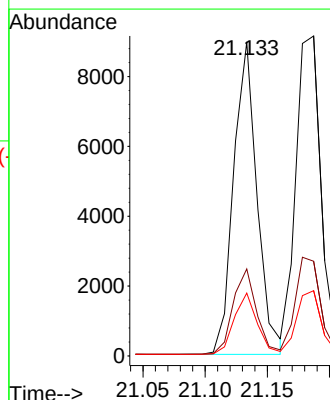
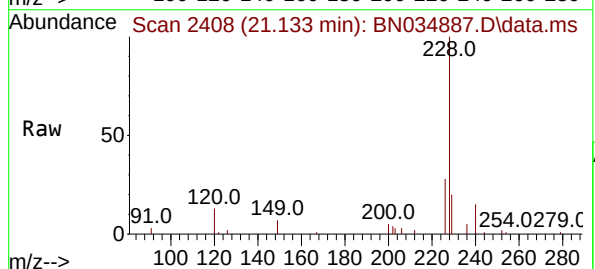
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

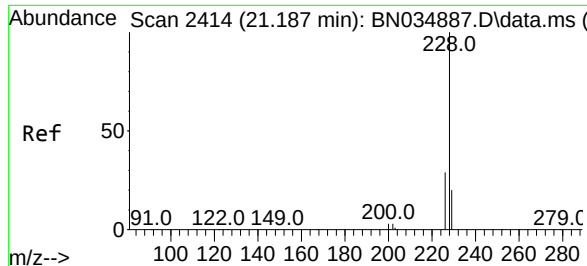
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.7	9.4	14.0
122	28.7	23.0	34.4



#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 21.133 min Scan# 2408
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.2
229	20.0	16.0	24.0

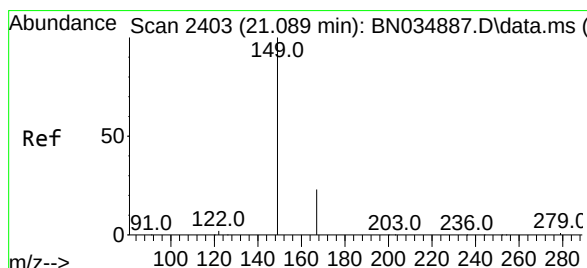
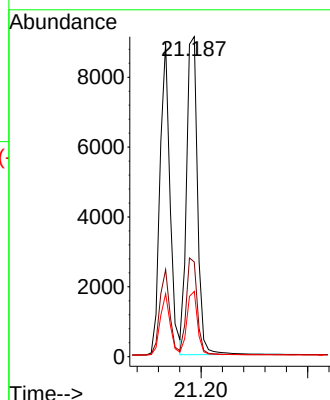
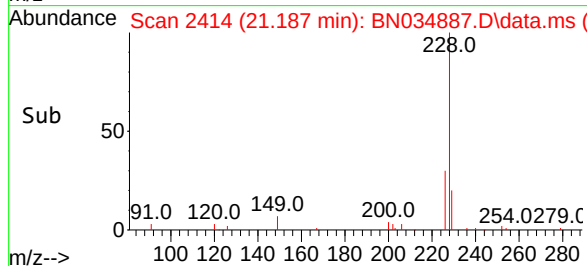
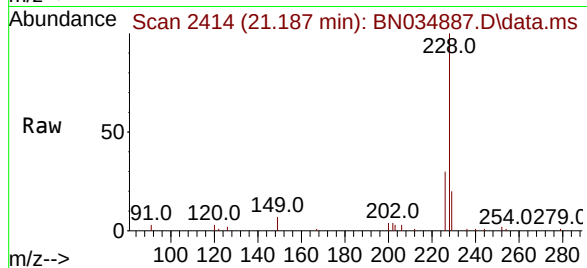




#33
Chrysene
Concen: 0.384 ng
RT: 21.187 min Scan# 2414
Delta R.T. 0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

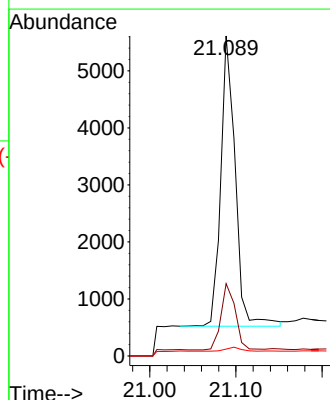
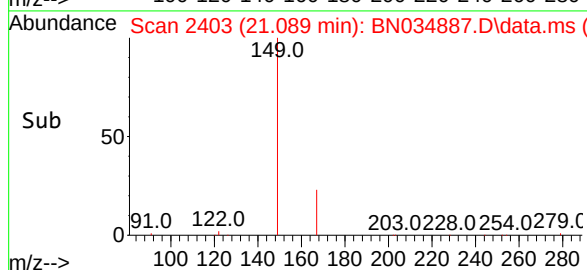
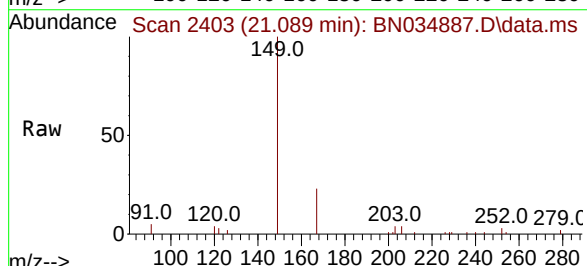
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

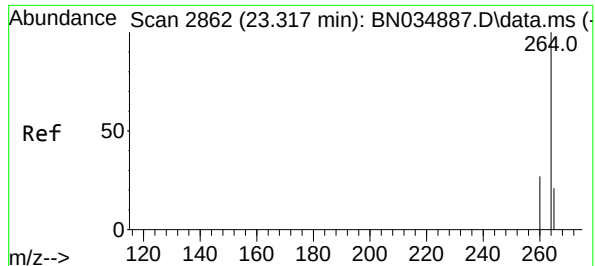
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.7	35.5
229	20.4	16.3	24.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.322 ng
RT: 21.089 min Scan# 2403
Delta R.T. -0.000 min
Lab File: BN034887.D
Acq: 07 Nov 2024 11:24

Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.6	18.1	27.1
279	1.5	1.2	1.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.317 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

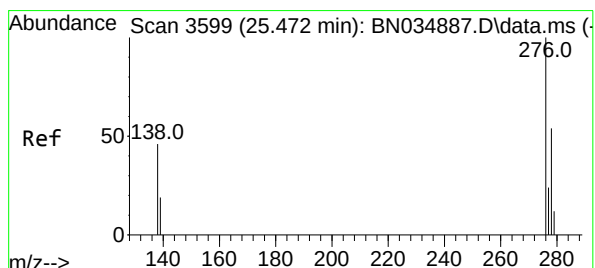
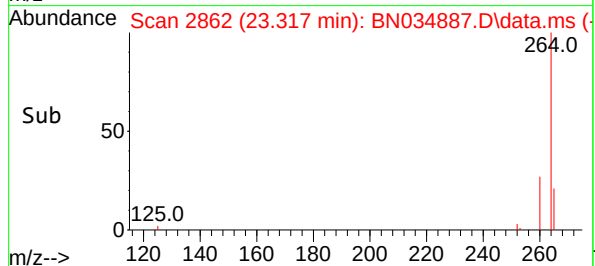
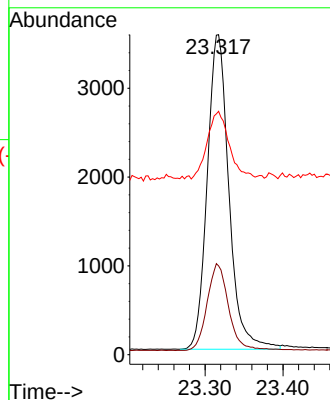
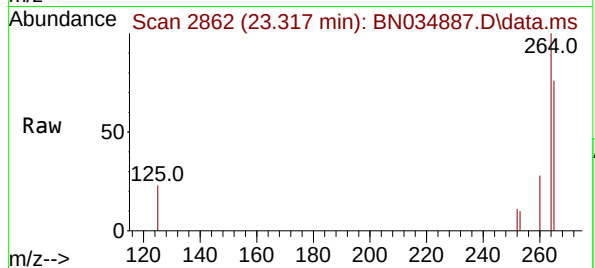
Tgt Ion:264 Resp: 6835

Ion Ratio Lower Upper

264 100

260 27.7 22.2 33.2

265 76.1 60.9 91.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.377 ng

RT: 25.472 min Scan# 3599

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

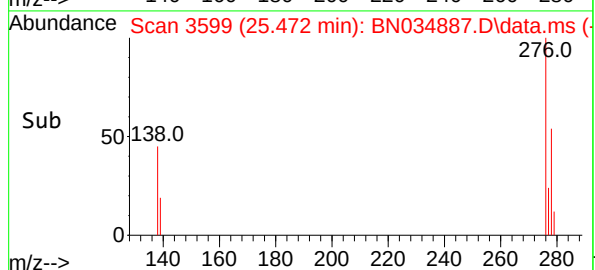
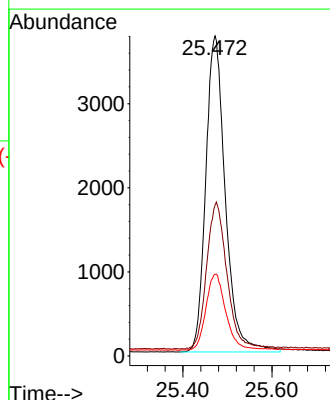
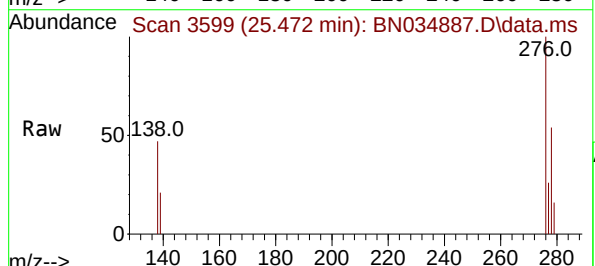
Tgt Ion:276 Resp: 11482

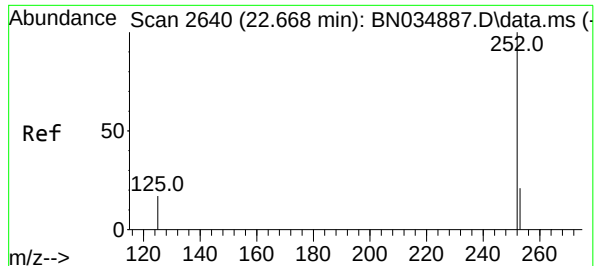
Ion Ratio Lower Upper

276 100

138 48.0 38.4 57.6

277 24.3 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.398 ng

RT: 22.668 min Scan# 2640

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

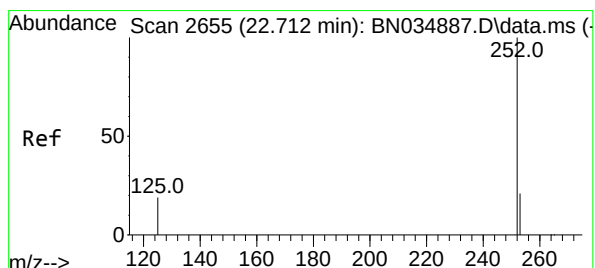
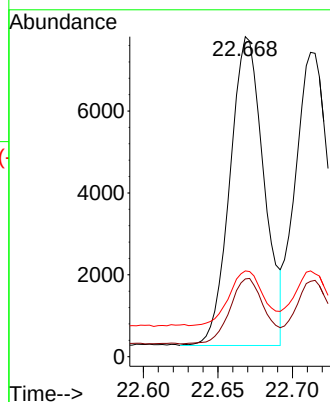
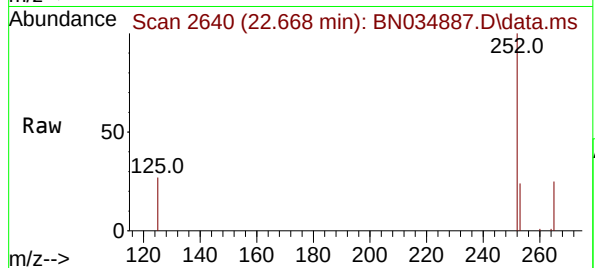
Tgt Ion:252 Resp: 11973

Ion Ratio Lower Upper

252 100

253 24.3 19.4 29.2

125 26.8 21.4 32.2



#38

Benzo(k)fluoranthene

Concen: 0.376 ng

RT: 22.712 min Scan# 2655

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

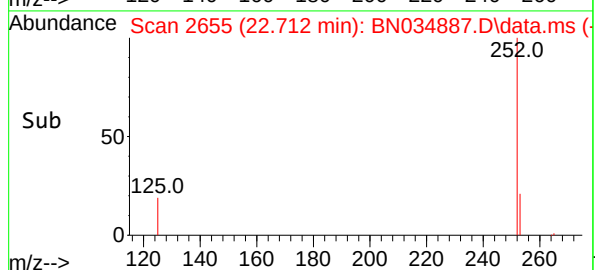
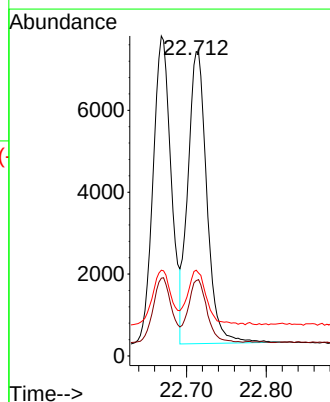
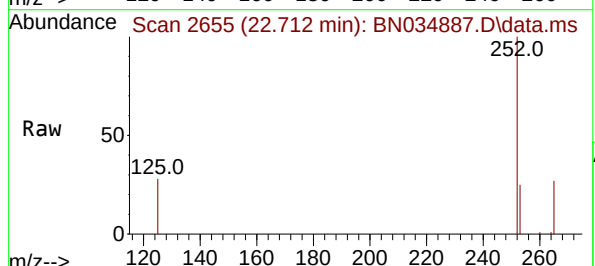
Tgt Ion:252 Resp: 11786

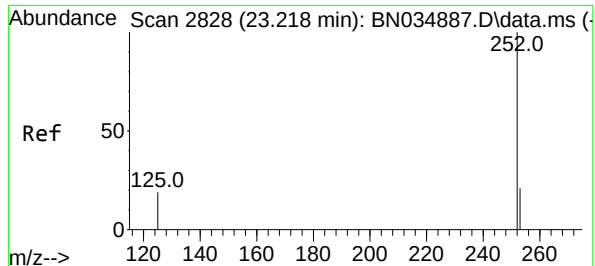
Ion Ratio Lower Upper

252 100

253 24.8 19.8 29.8

125 28.2 22.6 33.8





#39

Benzo(a)pyrene

Concen: 0.384 ng

RT: 23.218 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

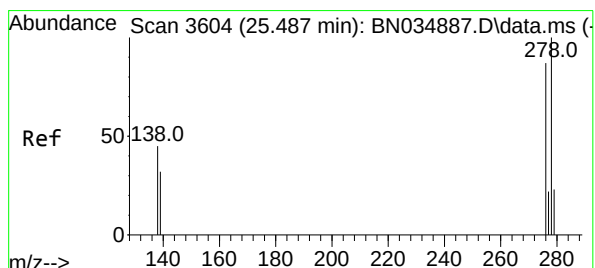
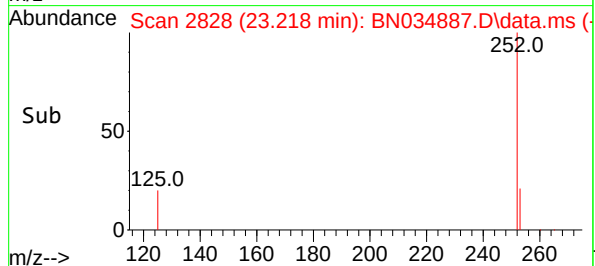
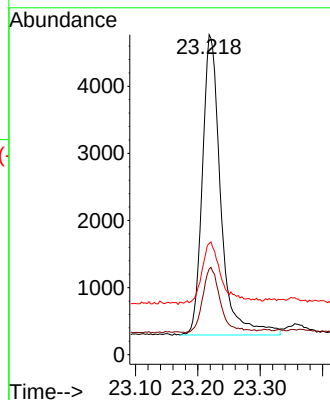
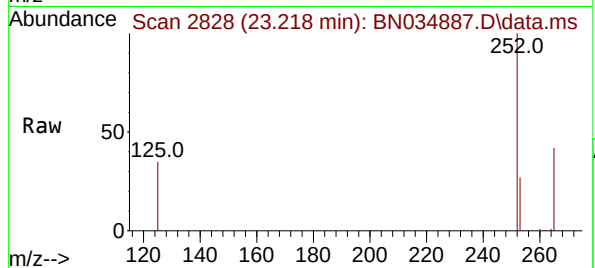
Tgt Ion:252 Resp: 9153

Ion Ratio Lower Upper

252 100

253 26.8 21.4 32.2

125 34.7 27.8 41.6



#40

Dibenzo(a,h)anthracene

Concen: 0.378 ng

RT: 25.487 min Scan# 3604

Delta R.T. 0.000 min

Lab File: BN034887.D

Acq: 07 Nov 2024 11:24

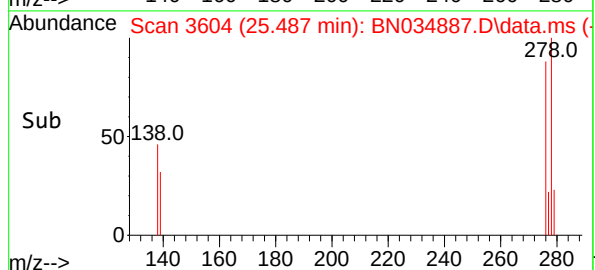
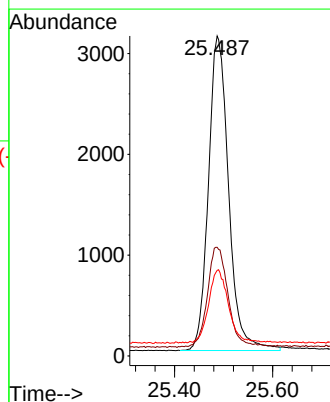
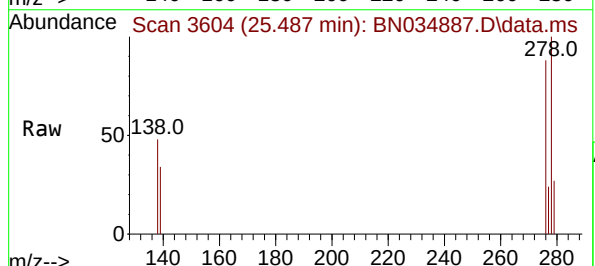
Tgt Ion:278 Resp: 8916

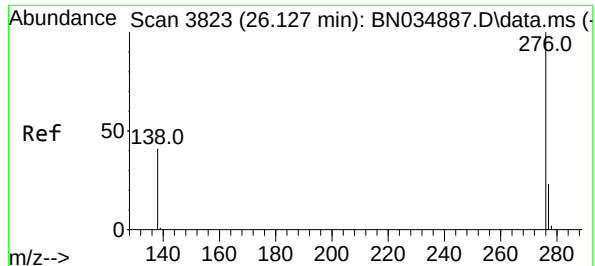
Ion Ratio Lower Upper

278 100

139 34.0 27.2 40.8

279 26.7 21.4 32.0





#41

Benzo(g,h,i)perylene

Concen: 0.405 ng

RT: 26.127 min Scan# 3823

Delta R.T. 0.000 min

Lab File: BN034887.D

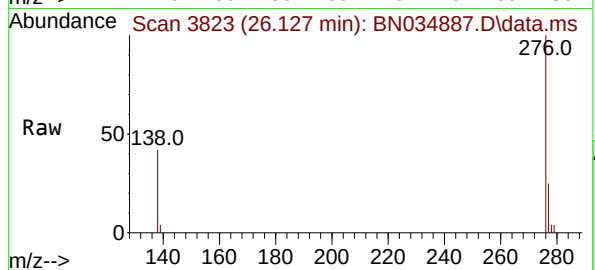
Acq: 07 Nov 2024 11:24

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



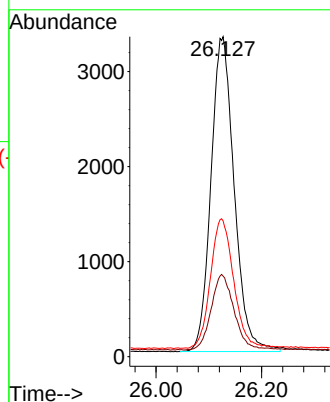
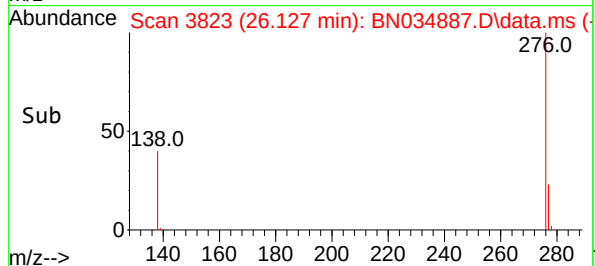
Tgt Ion:276 Resp: 10138

Ion Ratio Lower Upper

276 100

277 25.2 20.2 30.2

138 42.4 33.9 50.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
 Data File : BN034888.D
 Acq On : 07 Nov 2024 12:00
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024

Quant Time: Nov 07 14:41:27 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 07 14:34:20 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	6371	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	19428	0.400	ng	0.00
13) Acenaphthene-d10	14.208	164	9092	0.400	ng	0.00
19) Phenanthrene-d10	16.952	188	18851	0.400	ng	# 0.00
29) Chrysene-d12	21.149	240	12731	0.400	ng	0.00
35) Perylene-d12	23.315	264	10897	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.199	112	15040	0.847	ng	0.00
5) Phenol-d6	6.752	99	20160	0.855	ng	0.00
8) Nitrobenzene-d5	8.707	82	12697	0.838	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	22498	0.850	ng	0.00
14) 2,4,6-Tribromophenol	15.698	330	2202	0.849	ng	0.00
15) 2-Fluorobiphenyl	12.829	172	32517	0.847	ng	0.00
27) Fluoranthene-d10	18.990	212	36597	0.861	ng	0.00
31) Terphenyl-d14	19.598	244	19795	0.830	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.184	88	6753	0.839	ng	99
3) n-Nitrosodimethylamine	3.480	42	9597	0.884	ng	98
6) bis(2-Chloroethyl)ether	7.012	93	17693	0.870	ng	100
9) Naphthalene	10.383	128	45870	0.851	ng	100
10) Hexachlorobutadiene	10.682	225	7343	0.855	ng	# 97
12) 2-Methylnaphthalene	12.011	142	28153	0.853	ng	99
16) Acenaphthylene	13.919	152	36993	0.844	ng	100
17) Acenaphthene	14.272	154	26000	0.857	ng	97
18) Fluorene	15.255	166	32251	0.853	ng	100
20) 4,6-Dinitro-2-methylph...	15.341	198	1509	0.821	ng	# 36
21) 4-Bromophenyl-phenylether	16.157	248	8294	0.825	ng	# 86
22) Hexachlorobenzene	16.269	284	10091	0.834	ng	98
23) Atrazine	16.430	200	6114	0.840	ng	# 93
24) Pentachlorophenol	16.604	266	2792	0.836	ng	98
25) Phenanthrene	16.989	178	49126	0.850	ng	100
26) Anthracene	17.088	178	42271	0.848	ng	100
28) Fluoranthene	19.017	202	53297	0.876	ng	100
30) Pyrene	19.380	202	53636	0.832	ng	100
32) Benzo(a)anthracene	21.131	228	42348	0.853	ng	99
33) Chrysene	21.185	228	45020	0.857	ng	99
34) Bis(2-ethylhexyl)phtha...	21.095	149	22429	0.787	ng	98
36) Indeno(1,2,3-cd)pyrene	25.473	276	40211	0.828	ng	100
37) Benzo(b)fluoranthene	22.669	252	41412m	0.864	ng	
38) Benzo(k)fluoranthene	22.713	252	43204	0.865	ng	# 92
39) Benzo(a)pyrene	23.222	252	32141	0.845	ng	# 86
40) Dibenzo(a,h)anthracene	25.488	278	31006	0.825	ng	96
41) Benzo(g,h,i)perylene	26.128	276	32362	0.812	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
 Data File : BN034888.D
 Acq On : 07 Nov 2024 12:00
 Operator : RC/JU
 Sample : SSTDIC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024

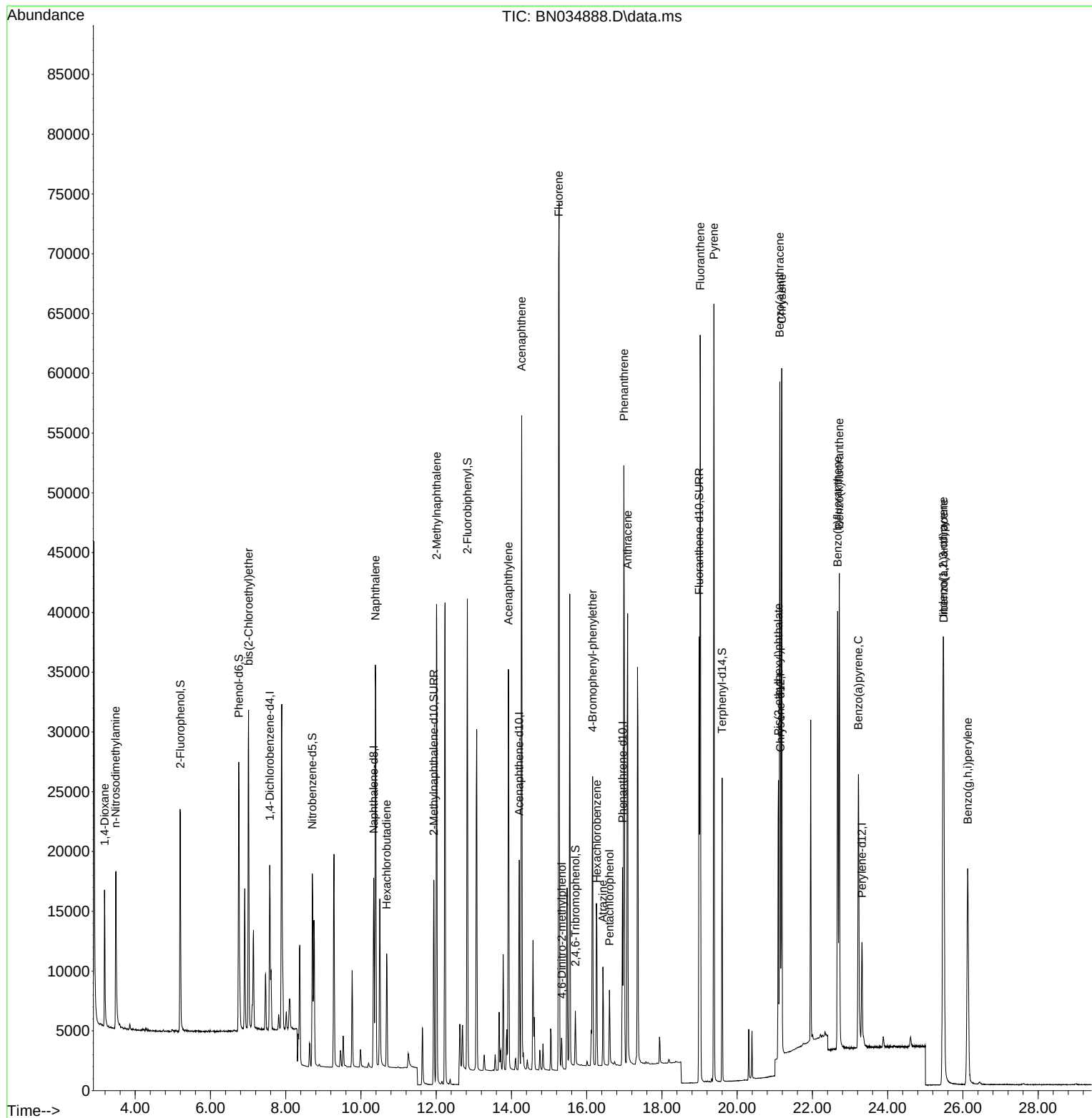
Quant Time: Nov 07 14:41:27 2024

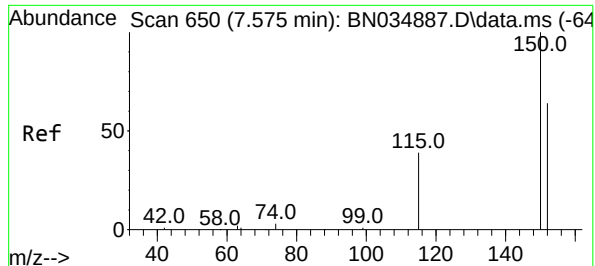
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 07 14:34:20 2024

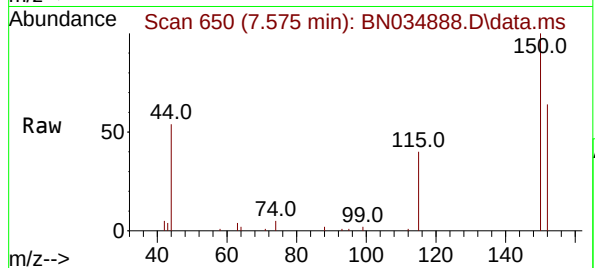
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

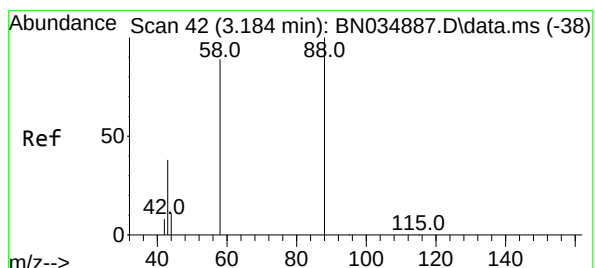
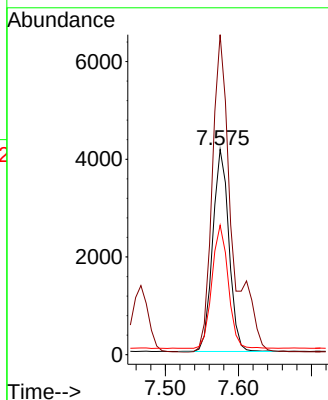
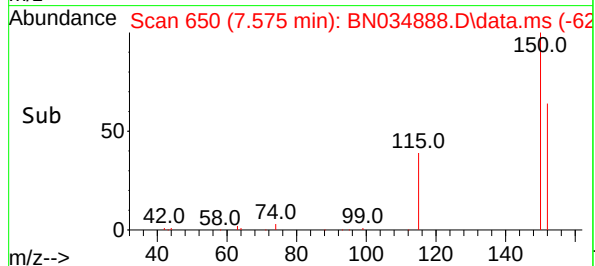
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion: 152 Resp: 637
Ion Ratio Lower Upper
152 100
150 155.9 124.4 186.6
115 63.1 50.5 75.7

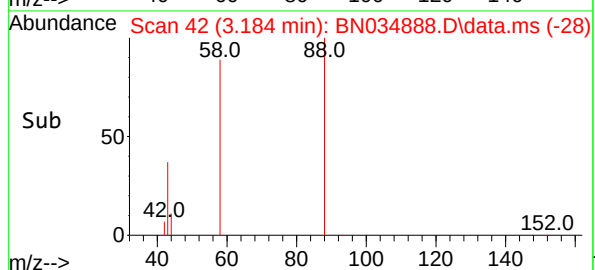
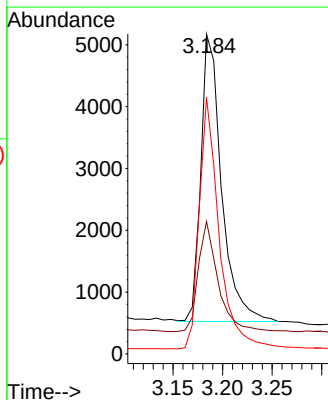
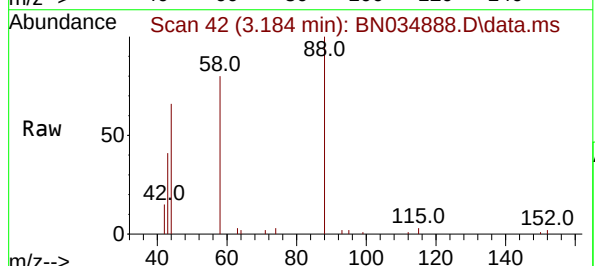
Manual Integrations
APPROVED

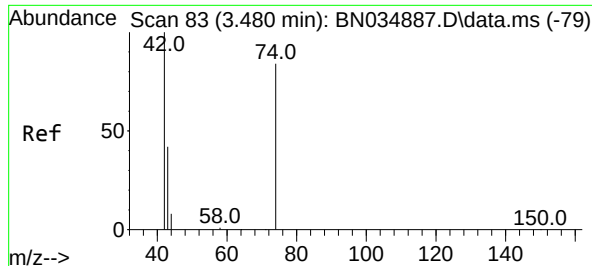
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#2
1,4-Dioxane
Concen: 0.839 ng
RT: 3.184 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion: 88 Resp: 6753
Ion Ratio Lower Upper
88 100
43 36.6 28.2 42.2
58 83.7 67.1 100.7





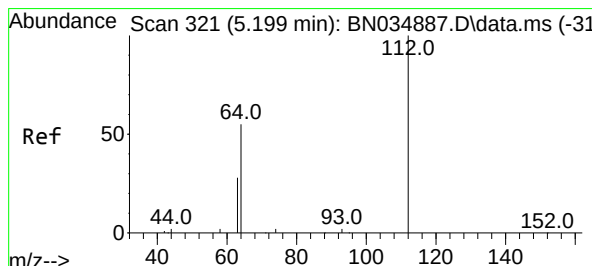
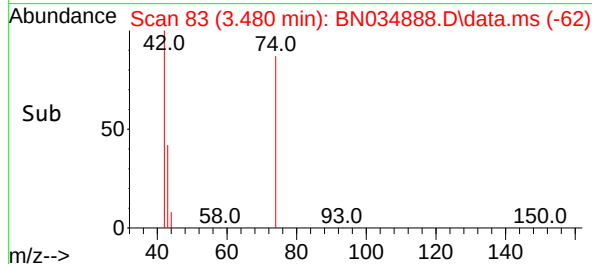
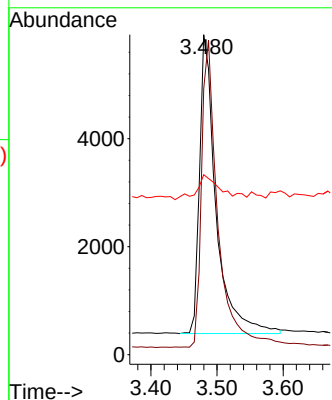
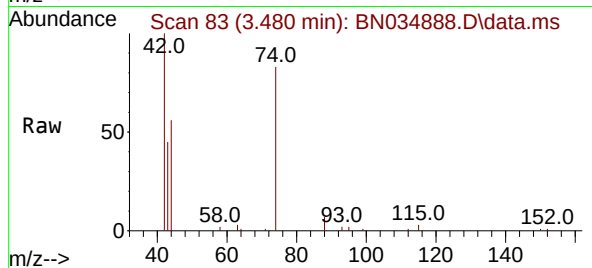
#3
n-Nitrosodimethylamine
Concen: 0.884 ng
RT: 3.480 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 959
Ion Ratio Lower Upper
42 100
74 102.7 83.4 125.2
44 11.5 8.6 12.8

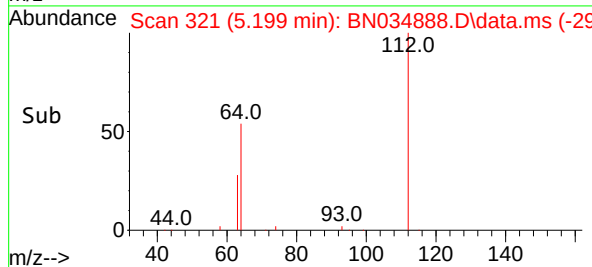
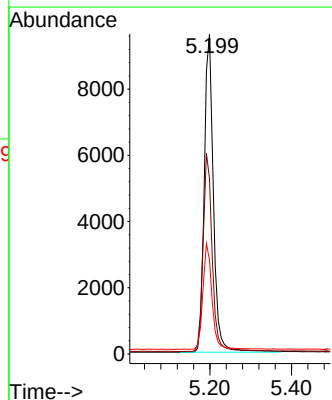
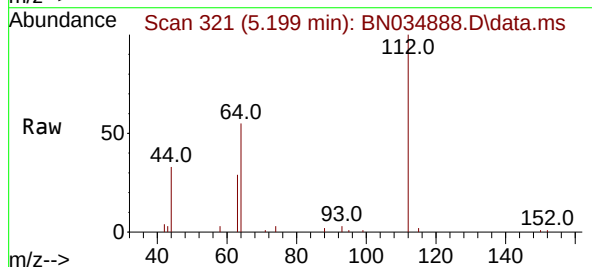
Manual Integrations
APPROVED

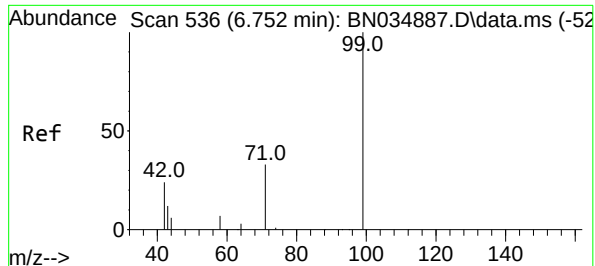
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#4
2-Fluorophenol
Concen: 0.847 ng
RT: 5.199 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:112 Resp: 15040
Ion Ratio Lower Upper
112 100
64 62.3 49.6 74.4
63 33.2 26.3 39.5





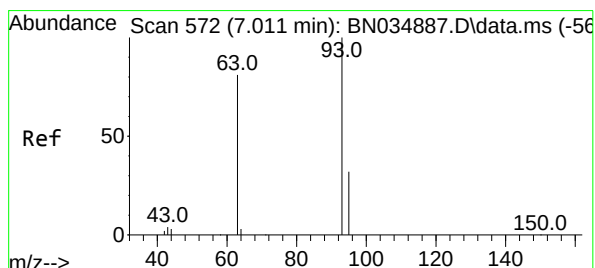
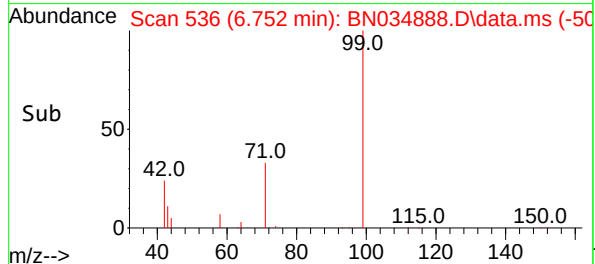
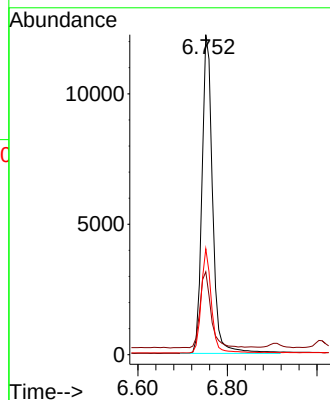
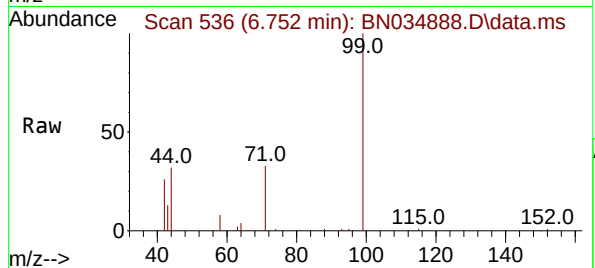
#5
Phenol-d6
Concen: 0.855 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 20160
Ion Ratio Lower Upper
99 100
42 25.2 20.2 30.2
71 31.4 25.4 38.0

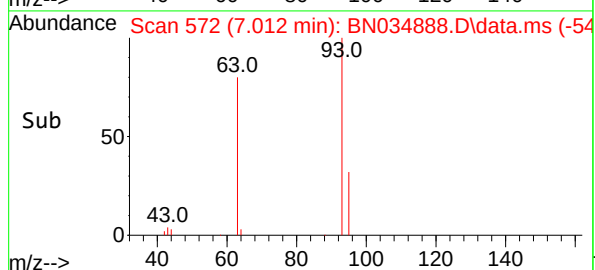
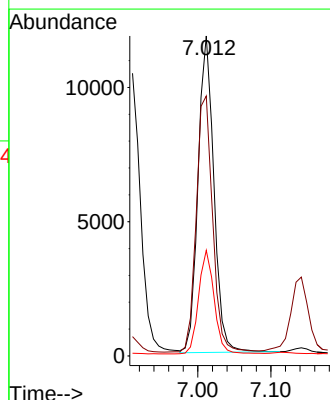
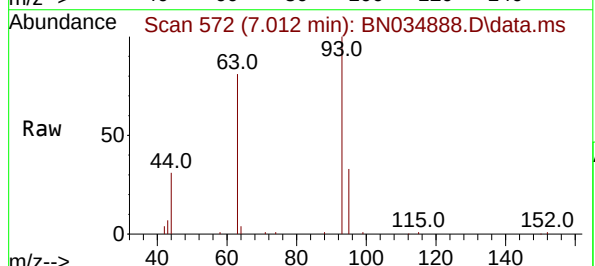
Manual Integrations
APPROVED

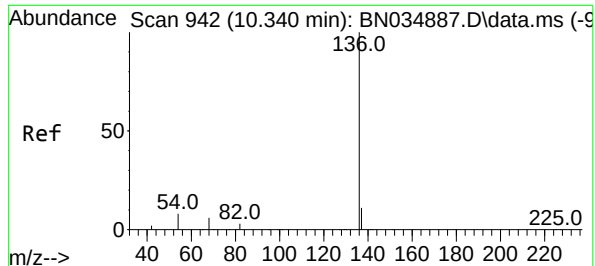
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.870 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion: 93 Resp: 17693
Ion Ratio Lower Upper
93 100
63 84.1 67.5 101.3
95 32.3 25.7 38.5





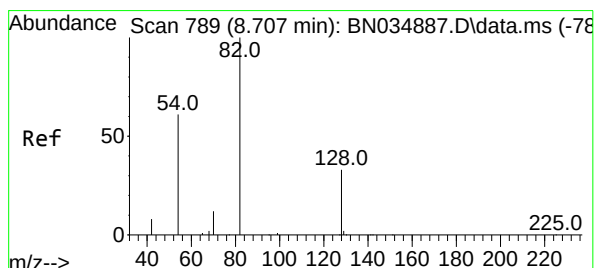
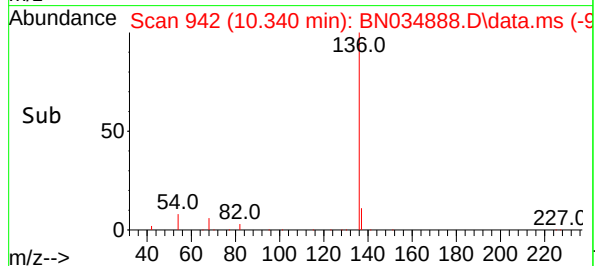
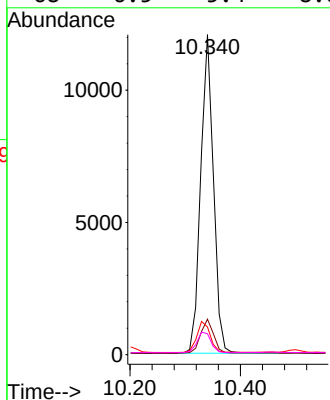
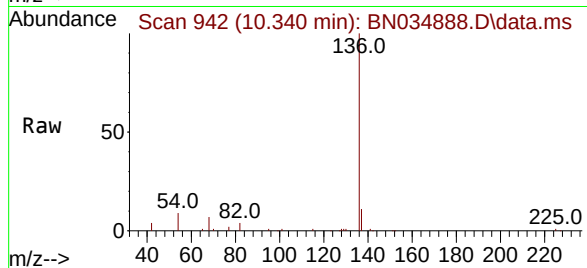
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 19428
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 8.6 6.9 10.3
68 6.5 5.4 8.0

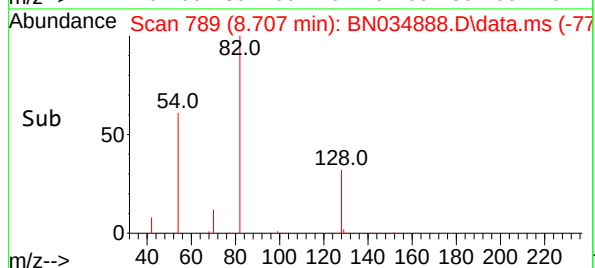
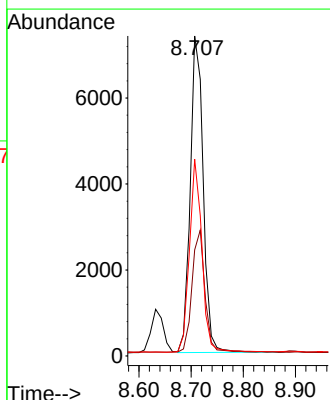
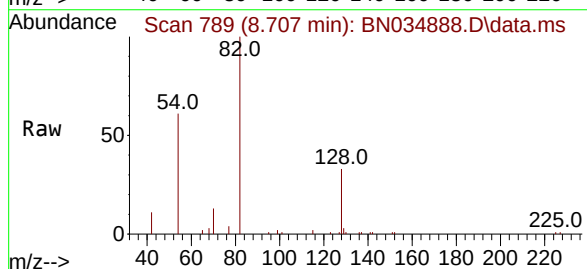
Manual Integrations
APPROVED

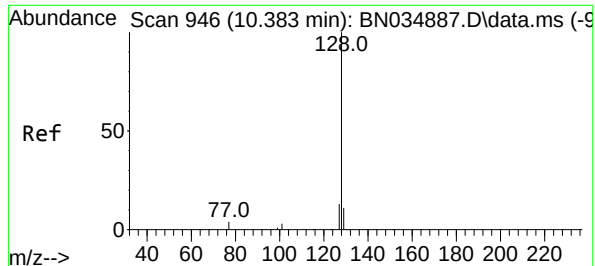
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#8
Nitrobenzene-d5
Concen: 0.838 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion: 82 Resp: 12697
Ion Ratio Lower Upper
82 100
128 33.2 28.1 42.1
54 61.5 49.8 74.6





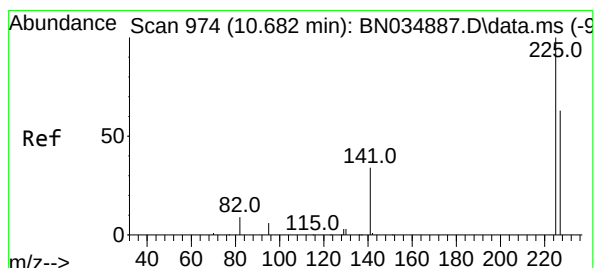
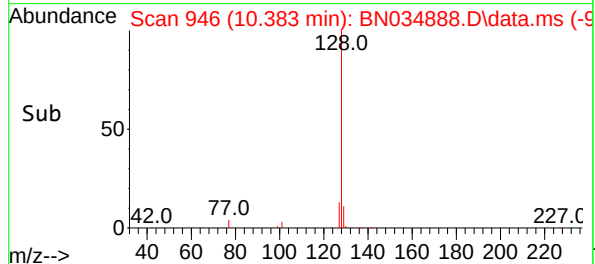
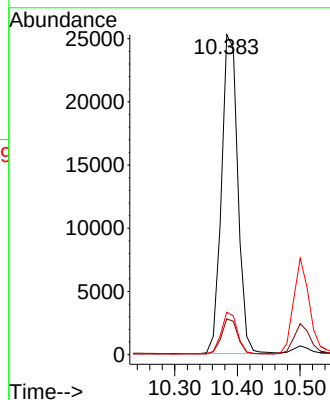
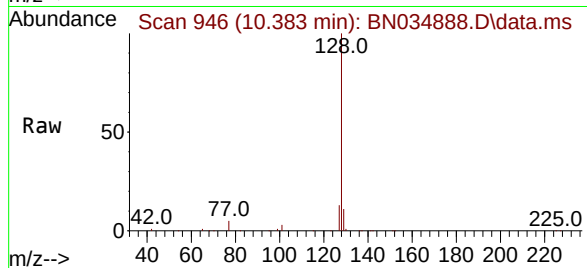
#9
Naphthalene
Concen: 0.851 ng
RT: 10.383 min Scan# 946
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 45870
Ion Ratio Lower Upper
128 100
129 11.2 9.0 13.4
127 13.3 10.8 16.2

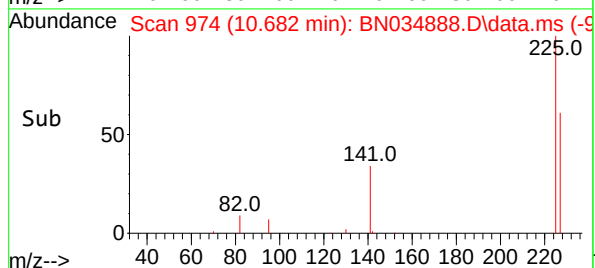
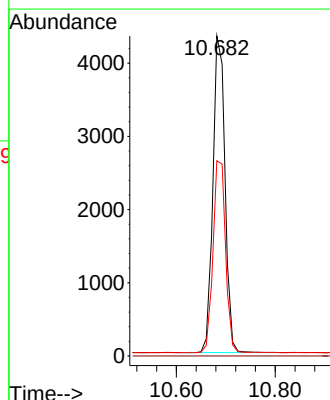
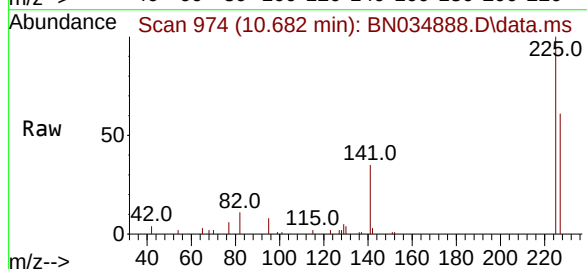
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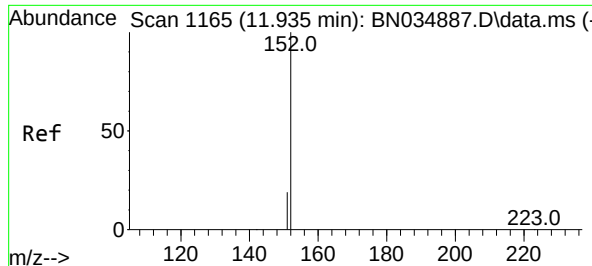
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#10
Hexachlorobutadiene
Concen: 0.855 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

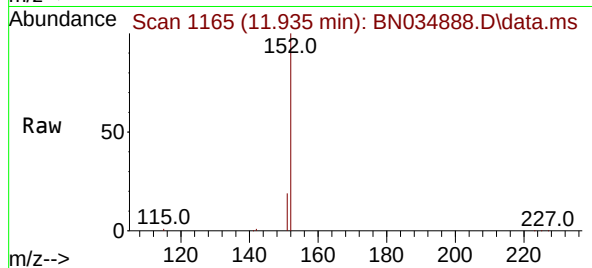
Tgt Ion:225 Resp: 7343
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.0 52.0 78.0





#11
2-Methylnaphthalene-d10
Concen: 0.850 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

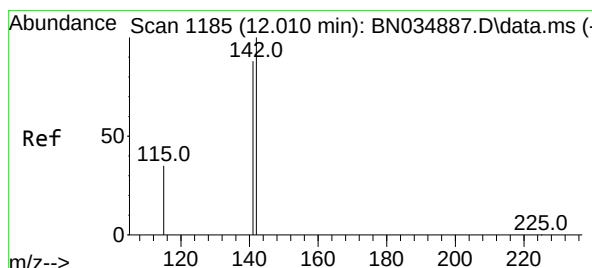
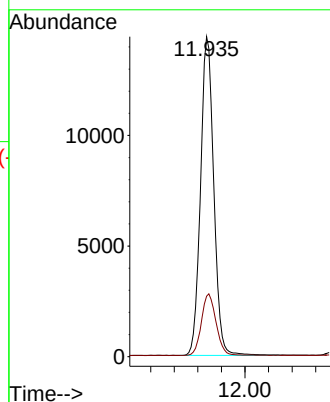
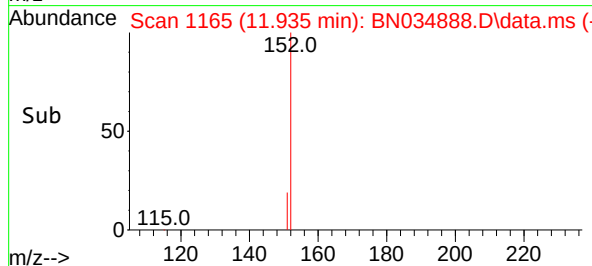
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8



Tgt Ion:152 Resp: 22498
Ion Ratio Lower Upper
152 100
151 21.4 17.1 25.7

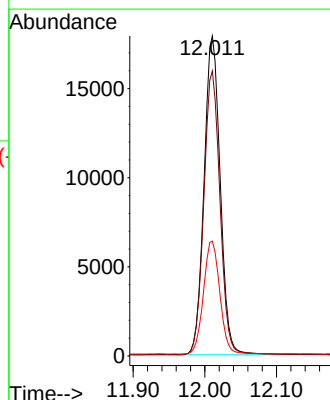
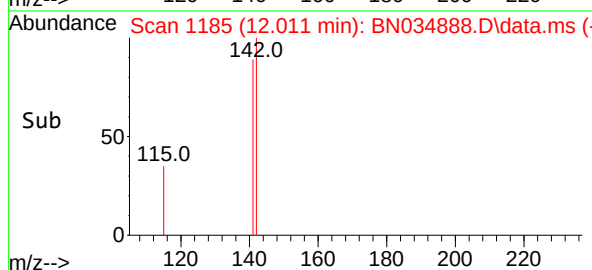
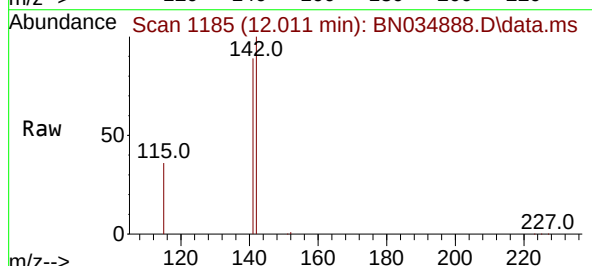
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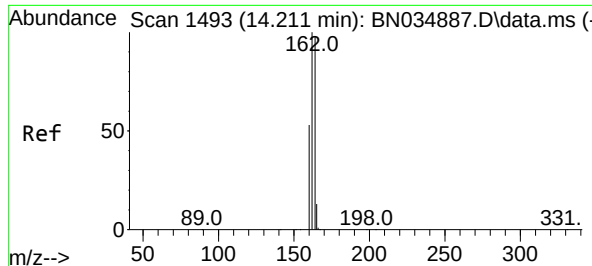
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#12
2-Methylnaphthalene
Concen: 0.853 ng
RT: 12.011 min Scan# 1185
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

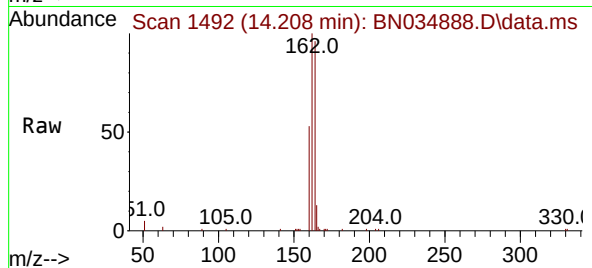
Tgt Ion:142 Resp: 28153
Ion Ratio Lower Upper
142 100
141 89.0 70.5 105.7
115 35.9 29.4 44.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.208 min Scan# 1492
Delta R.T. -0.003 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

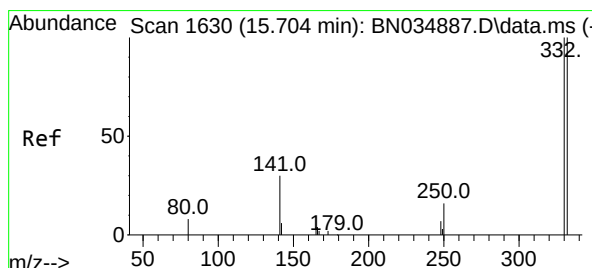
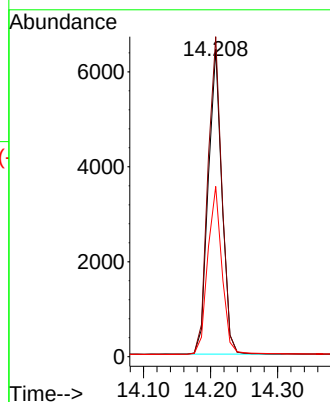
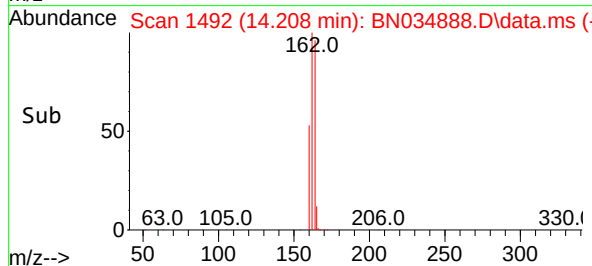
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:164 Resp: 9092
Ion Ratio Lower Upper
164 100
162 104.1 81.9 122.9
160 55.4 43.5 65.3

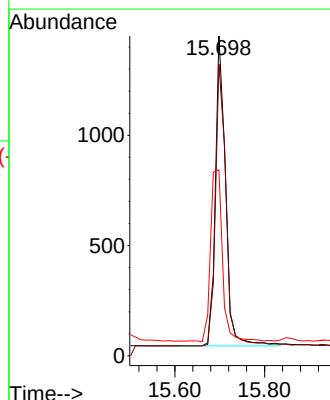
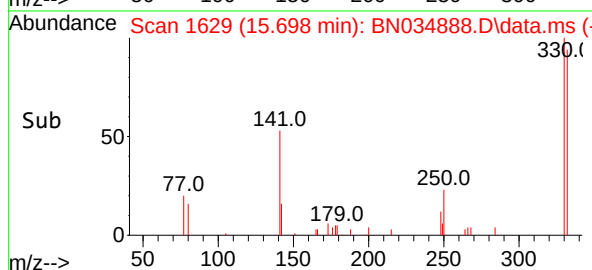
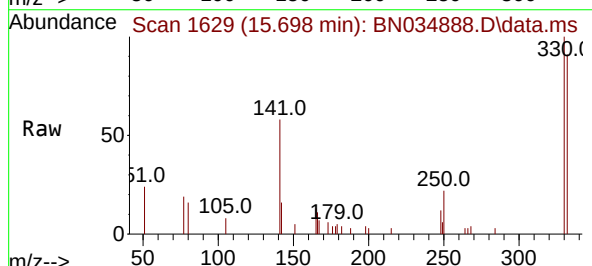
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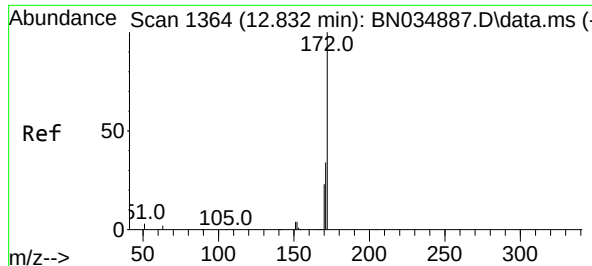
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#14
2,4,6-Tribromophenol
Concen: 0.849 ng
RT: 15.698 min Scan# 1629
Delta R.T. -0.006 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:330 Resp: 2202
Ion Ratio Lower Upper
330 100
332 94.3 77.1 115.7
141 64.3 54.1 81.1





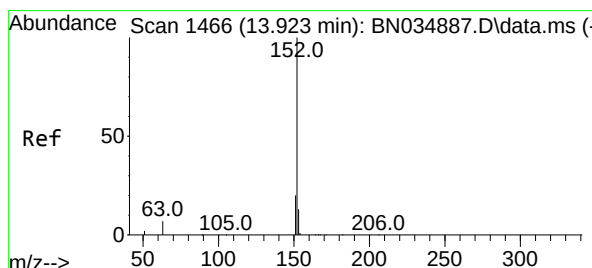
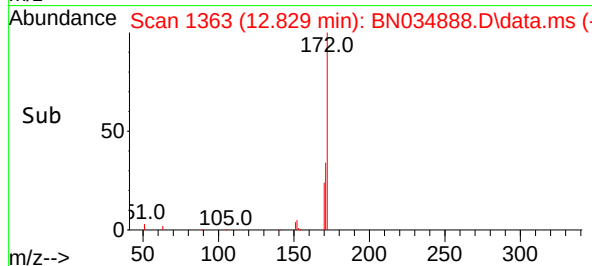
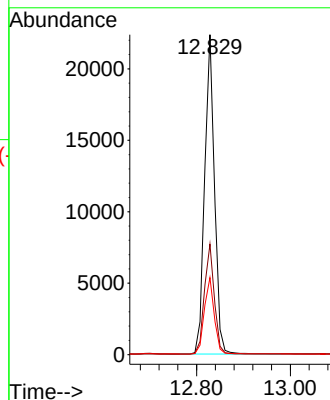
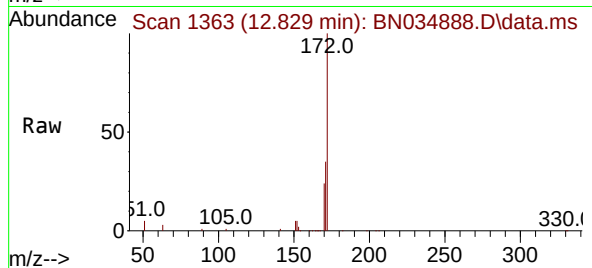
#15
2-Fluorobiphenyl
Concen: 0.847 ng
RT: 12.829 min Scan# 1364
Delta R.T. -0.004 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 3251
Ion Ratio Lower Upper
172 100
171 34.5 27.9 41.9
170 24.1 19.0 28.4

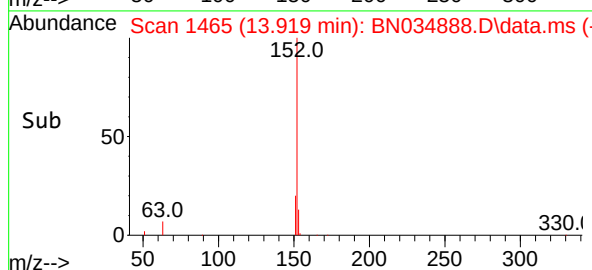
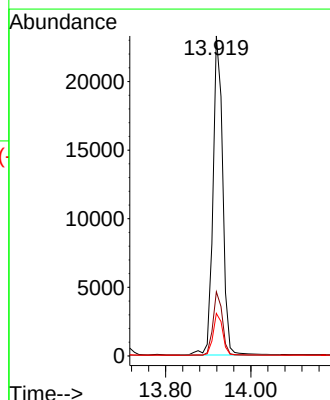
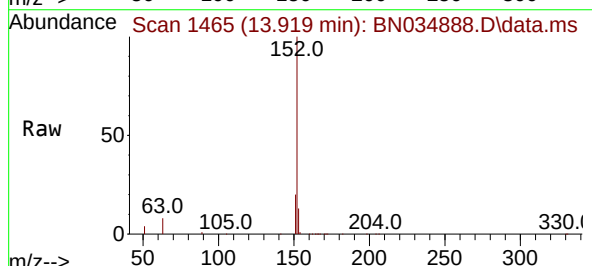
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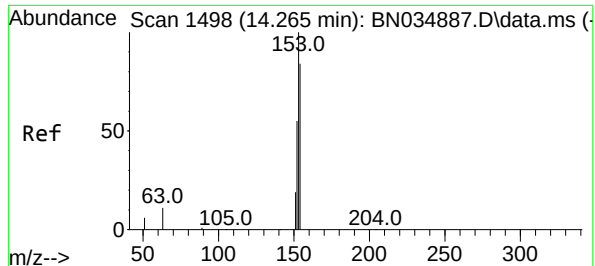
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#16
Acenaphthylene
Concen: 0.844 ng
RT: 13.919 min Scan# 1465
Delta R.T. -0.004 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

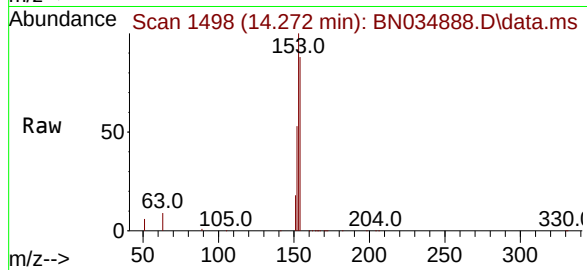
Tgt Ion:152 Resp: 36993
Ion Ratio Lower Upper
152 100
151 19.3 15.2 22.8
153 12.9 10.4 15.6





#17
Acenaphthene
Concen: 0.857 ng
RT: 14.272 min Scan# 1498
Delta R.T. 0.007 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

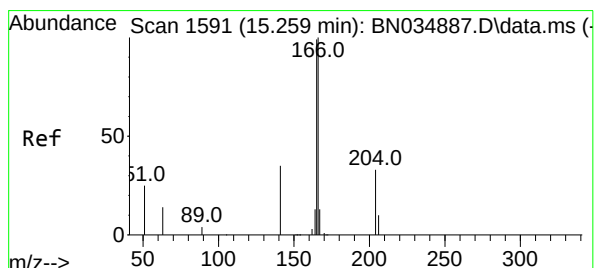
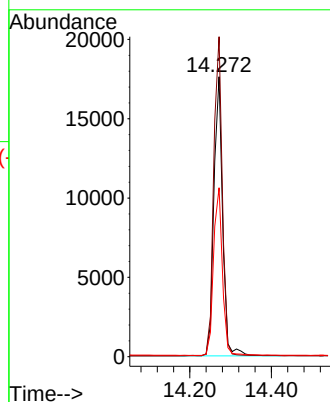
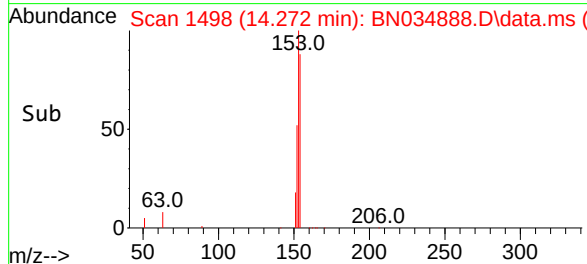
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:154 Resp: 26000
Ion Ratio Lower Upper
154 100
153 112.8 92.2 138.2
152 61.4 51.1 76.7

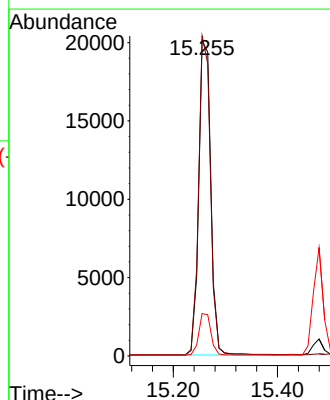
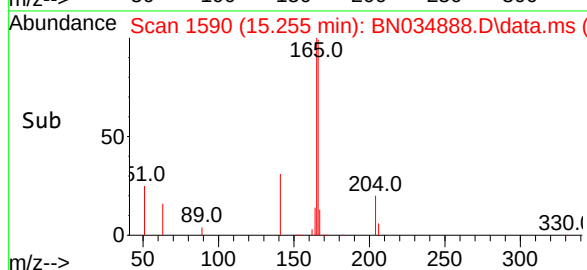
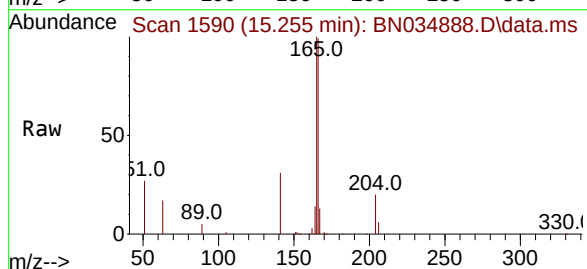
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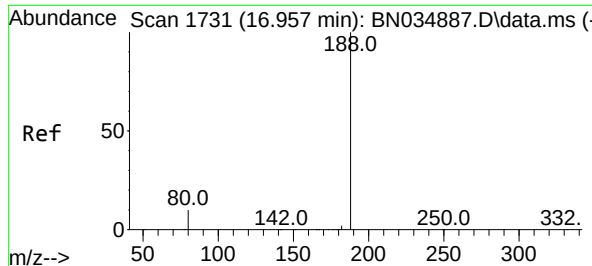
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#18
Fluorene
Concen: 0.853 ng
RT: 15.255 min Scan# 1590
Delta R.T. -0.004 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:166 Resp: 32251
Ion Ratio Lower Upper
166 100
165 99.5 79.5 119.3
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.952 min Scan# 1

Delta R.T. -0.005 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

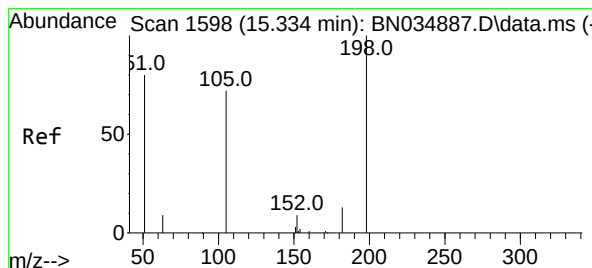
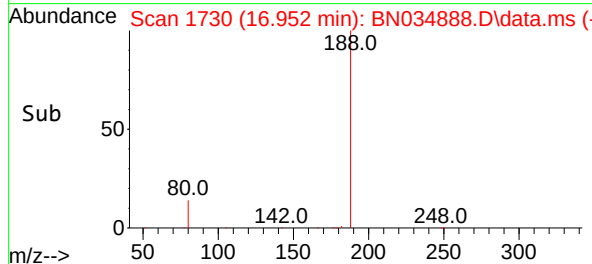
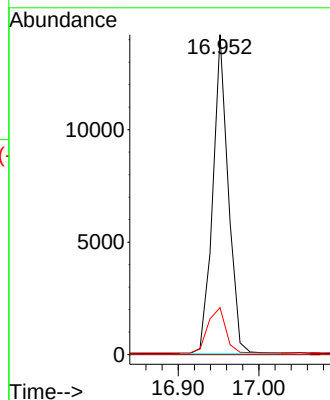
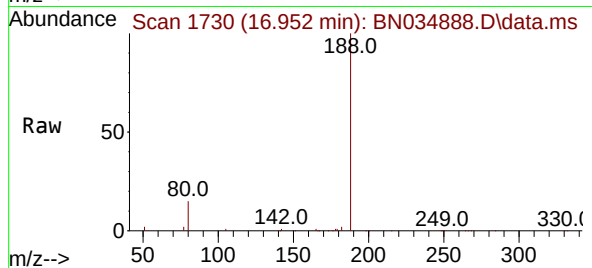
Tgt Ion:188 Resp: 1885

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.7	8.6	12.8

Manual Integrations
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Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.821 ng

RT: 15.341 min Scan# 1598

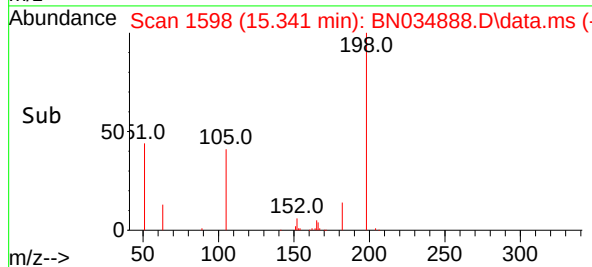
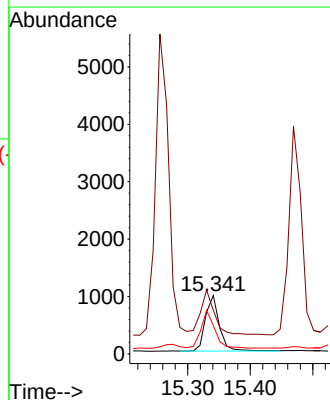
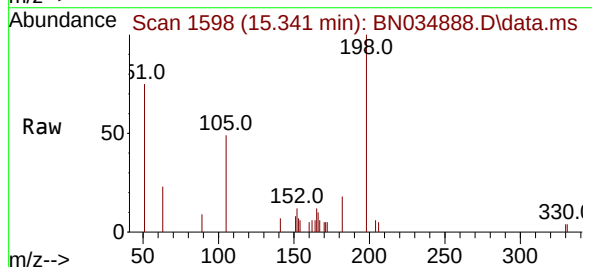
Delta R.T. 0.007 min

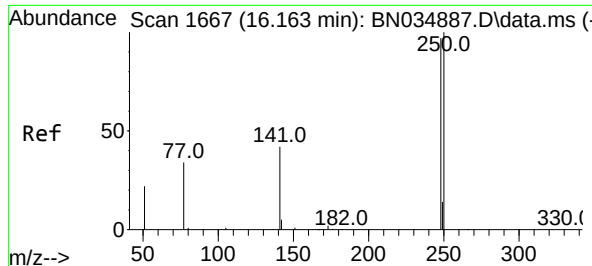
Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

Tgt Ion:198 Resp: 1509

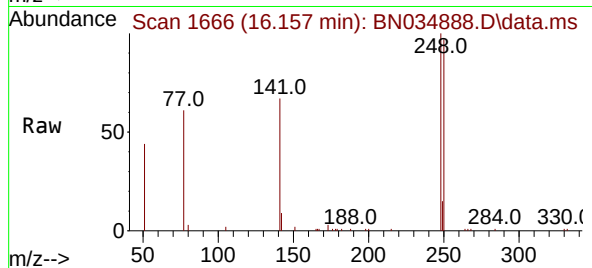
Ion	Ratio	Lower	Upper
198	100		
51	74.6	141.8	212.8#
105	48.7	75.6	113.4#





#21
4-Bromophenyl-phenylether
Concen: 0.825 ng
RT: 16.157 min Scan# 1666
Delta R.T. -0.005 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

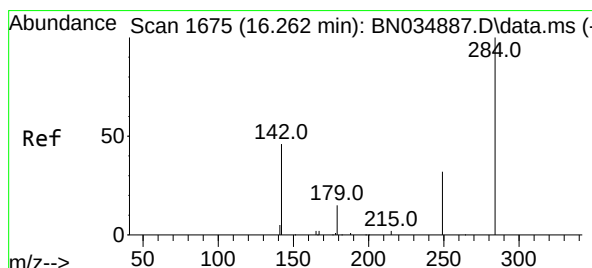
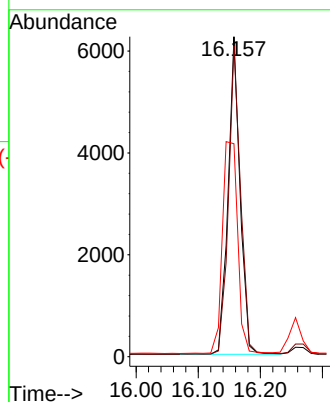
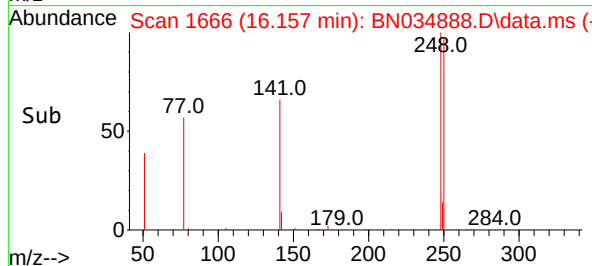
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:248 Resp: 8294
Ion Ratio Lower Upper
248 100
250 97.2 82.2 123.4
141 66.6 36.2 54.2

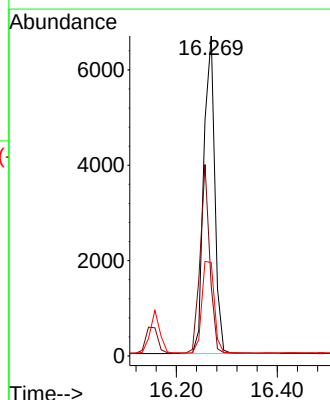
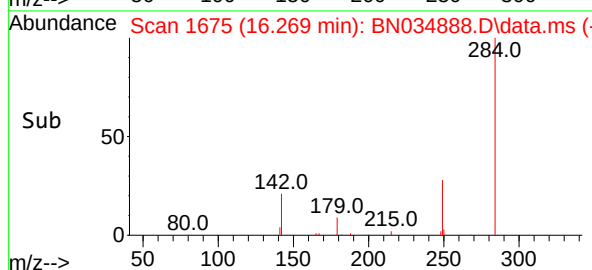
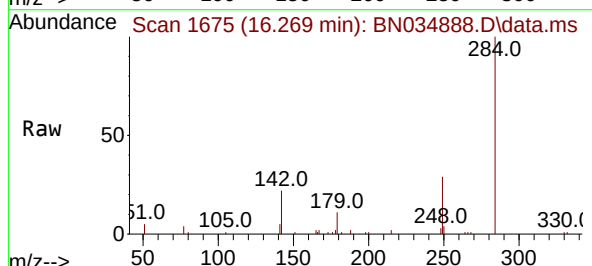
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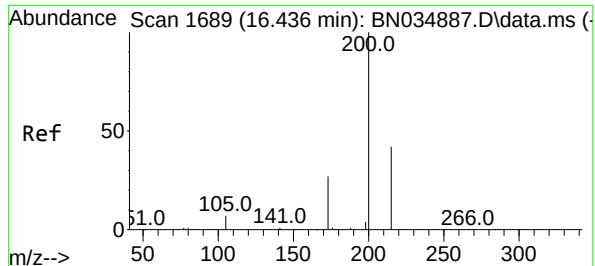
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#22
Hexachlorobenzene
Concen: 0.834 ng
RT: 16.269 min Scan# 1675
Delta R.T. 0.007 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:284 Resp: 10091
Ion Ratio Lower Upper
284 100
142 52.5 43.4 65.2
249 32.7 25.8 38.6





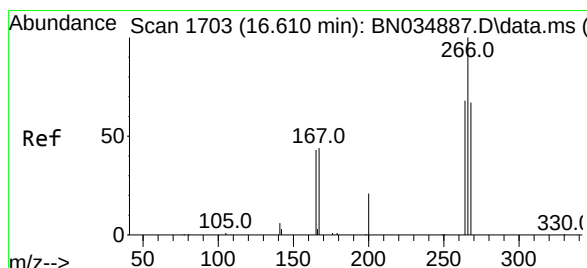
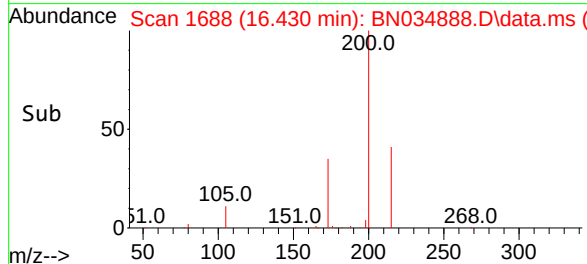
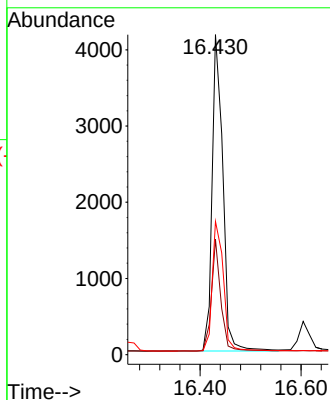
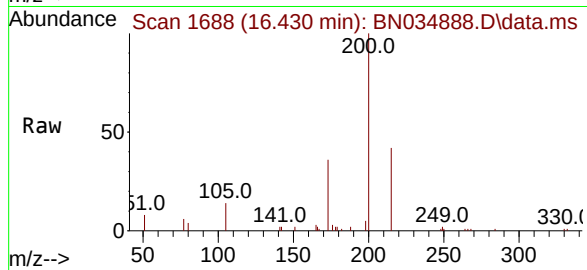
#23
Atrazine
Concen: 0.840 ng
RT: 16.430 min Scan# 110
Delta R.T. -0.005 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 6114
Ion Ratio Lower Upper
200 100
173 36.0 23.4 35.2
215 41.7 35.4 53.0

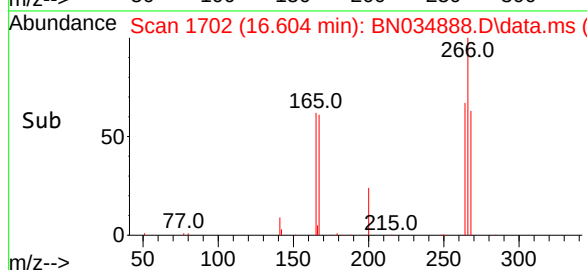
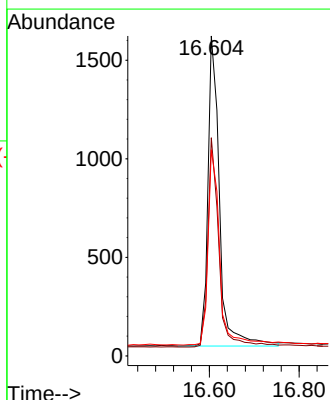
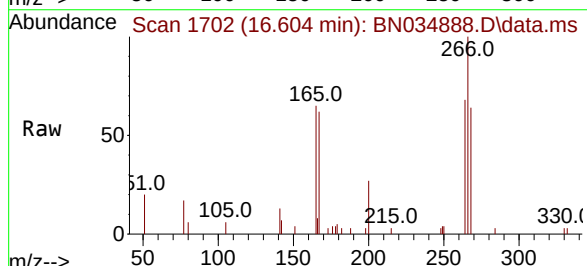
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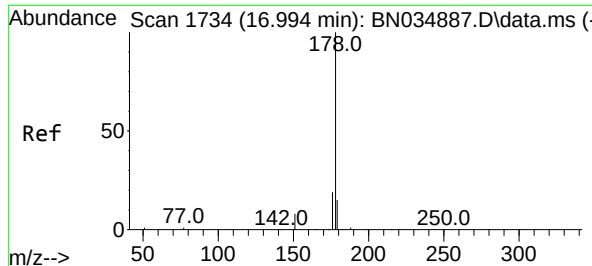
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#24
Pentachlorophenol
Concen: 0.836 ng
RT: 16.604 min Scan# 1702
Delta R.T. -0.006 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

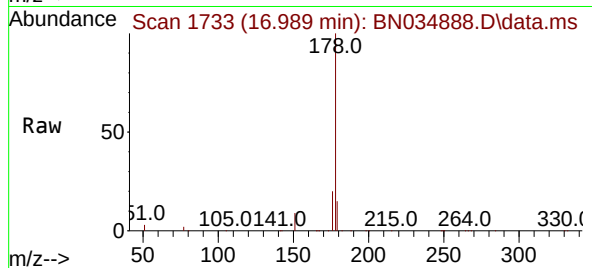
Tgt Ion:266 Resp: 2792
Ion Ratio Lower Upper
266 100
264 64.4 51.3 76.9
268 63.4 53.0 79.6





#25
Phenanthrene
Concen: 0.850 ng
RT: 16.989 min Scan# 1733
Delta R.T. -0.005 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

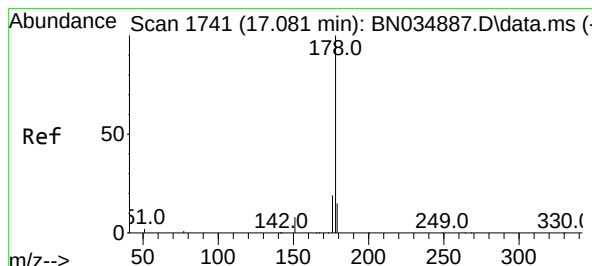
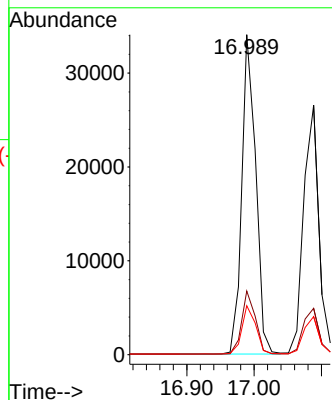
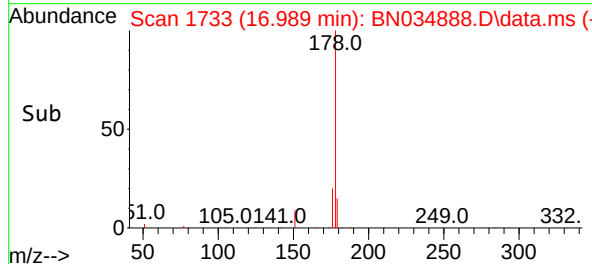
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



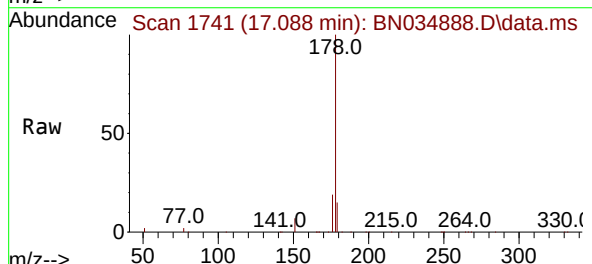
Tgt Ion:178 Resp: 49120
Ion Ratio Lower Upper
178 100
176 19.5 15.5 23.3
179 15.2 12.2 18.2

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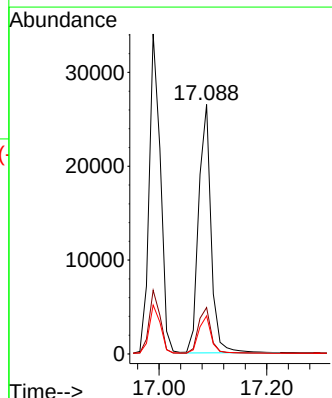
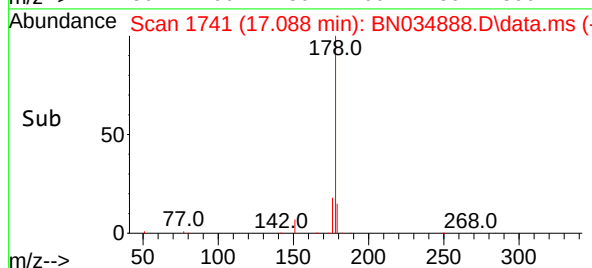
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024

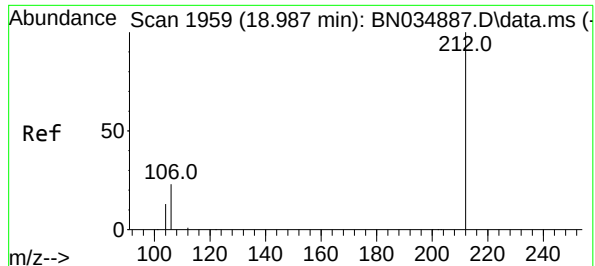


#26
Anthracene
Concen: 0.848 ng
RT: 17.088 min Scan# 1741
Delta R.T. 0.007 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00



Tgt Ion:178 Resp: 42271
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.1 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.861 ng

RT: 18.990 min Scan# 1959

Delta R.T. 0.002 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

Instrument :

BNA_N

ClientSampleId :

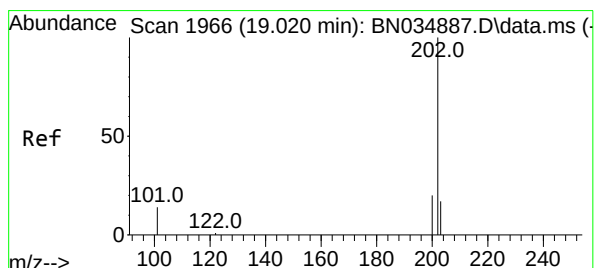
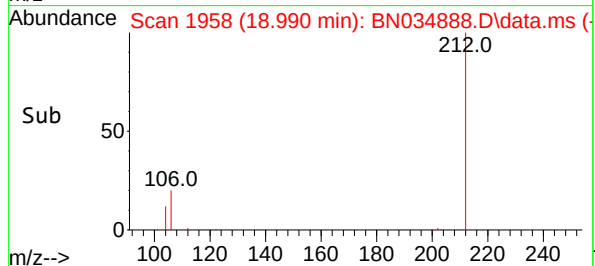
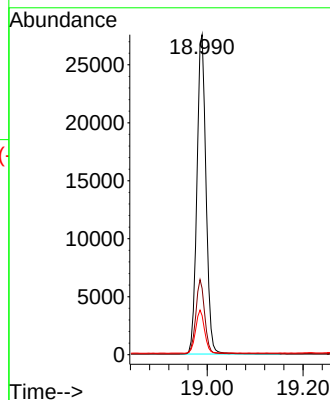
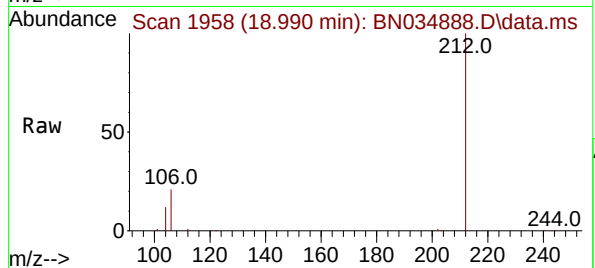
SSTDICC0.8

Tgt Ion:	212	Resp:	3659
Ion Ratio	Lower	Upper	
212	100		
106	22.7	18.2	27.4
104	13.2	10.6	15.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#28

Fluoranthene

Concen: 0.876 ng

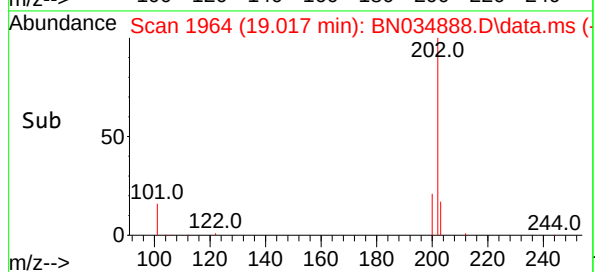
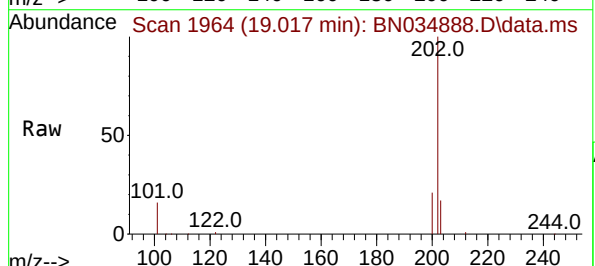
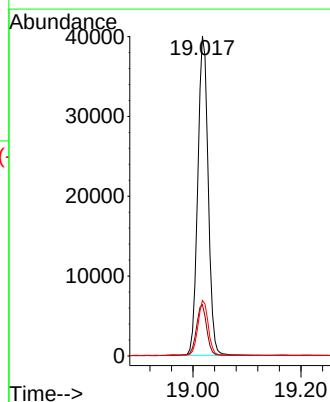
RT: 19.017 min Scan# 1964

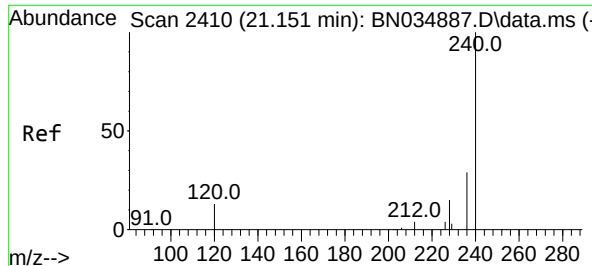
Delta R.T. -0.002 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

Tgt Ion:	202	Resp:	53297
Ion Ratio	Lower	Upper	
202	100		
101	16.0	12.7	19.1
203	17.0	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.149 min Scan# 2410

Delta R.T. -0.002 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

Instrument :

BNA_N

ClientSampleId :

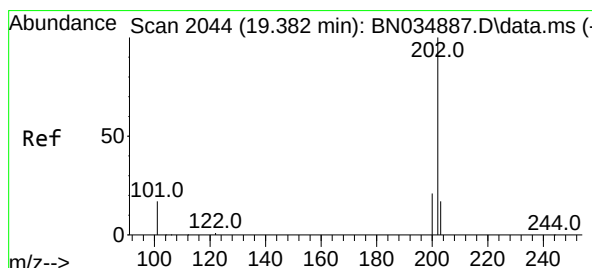
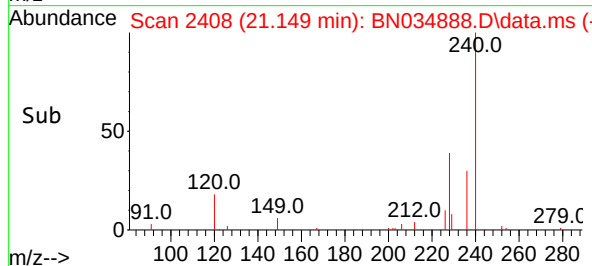
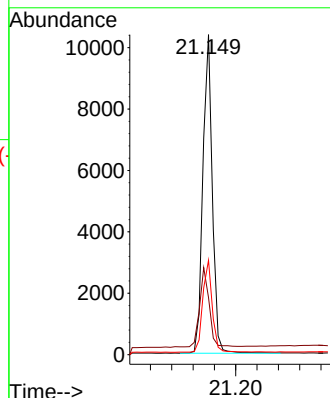
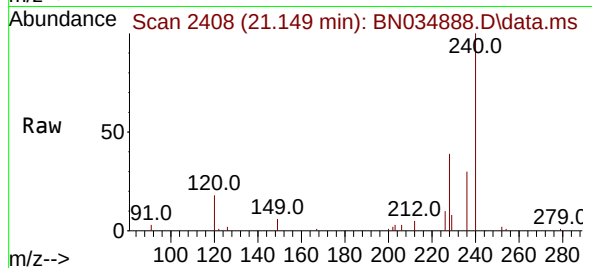
SSTDICC0.8

Tgt Ion:	240	Resp:	1273
Ion Ratio	Lower	Upper	
240	100		
120	17.8	13.8	20.8
236	29.5	23.8	35.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#30

Pyrene

Concen: 0.832 ng

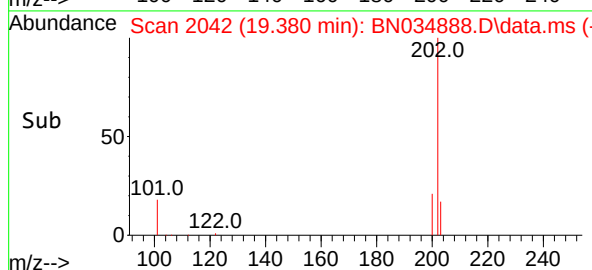
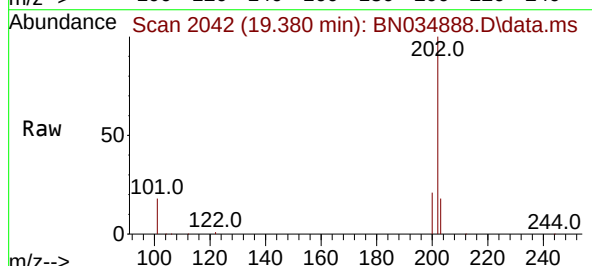
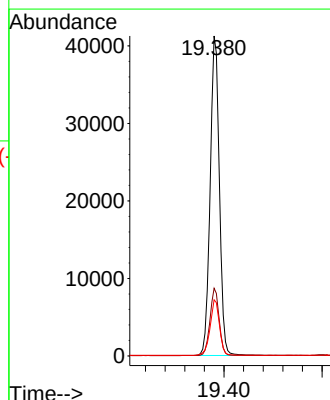
RT: 19.380 min Scan# 2042

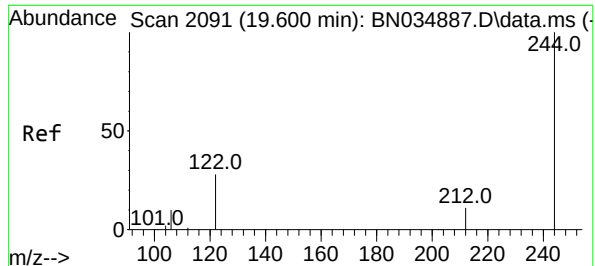
Delta R.T. -0.002 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

Tgt Ion:	202	Resp:	53636
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.8	25.2
203	17.7	14.1	21.1





#31
Terphenyl-d14
Concen: 0.830 ng
RT: 19.598 min Scan# 2091
Delta R.T. -0.002 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Instrument :

BNA_N

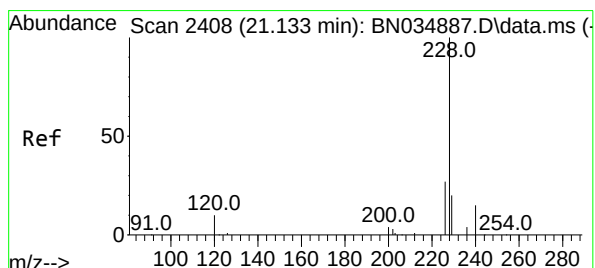
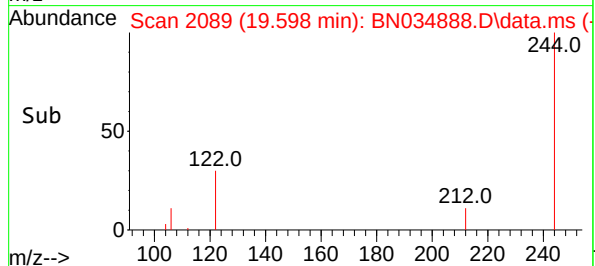
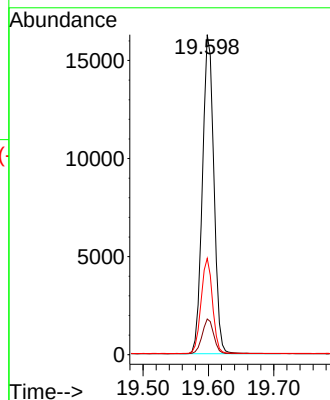
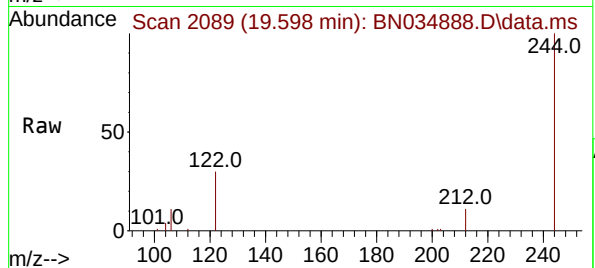
ClientSampleId :

SSTDICC0.8

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.2	9.4	14.0
122	30.1	23.0	34.4

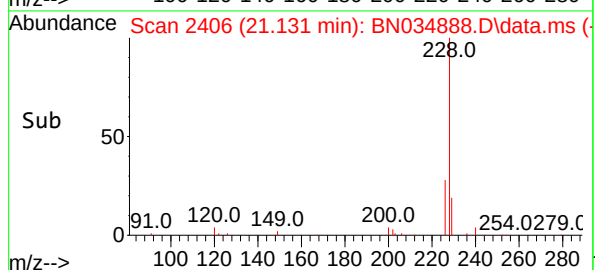
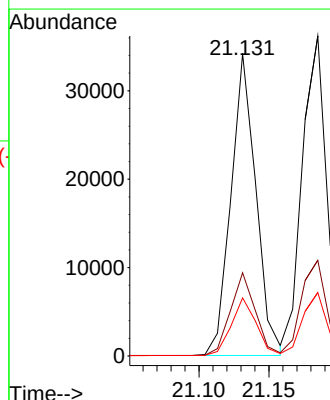
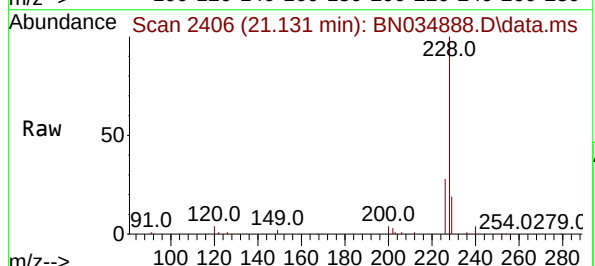
Manual Integrations
APPROVED

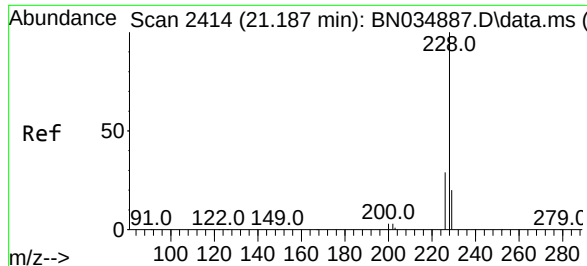
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#32
Benzo(a)anthracene
Concen: 0.853 ng
RT: 21.131 min Scan# 2406
Delta R.T. -0.002 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.2	33.2
229	19.2	16.0	24.0





#33

Chrysene

Concen: 0.857 ng

RT: 21.185 min Scan# 2414

Delta R.T. -0.002 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Tgt Ion:228 Resp: 45020

Ion Ratio Lower Upper

228 100

226 29.9 23.7 35.5

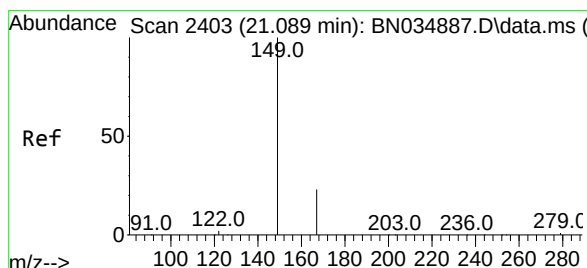
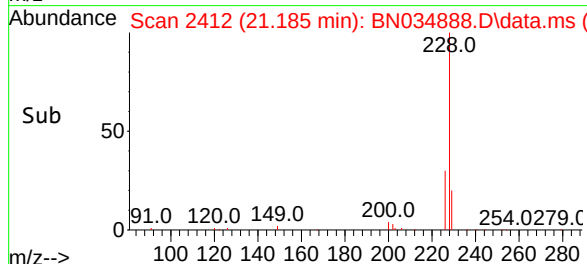
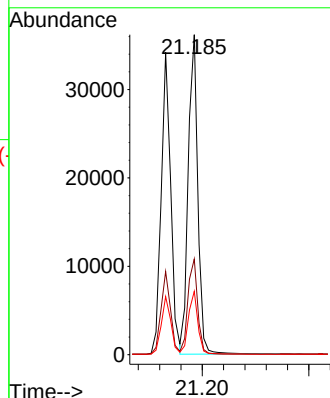
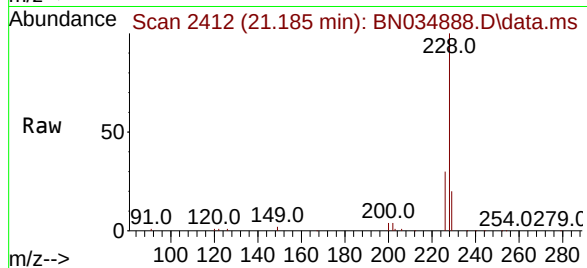
229 19.8 16.3 24.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.787 ng

RT: 21.095 min Scan# 2402

Delta R.T. 0.006 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

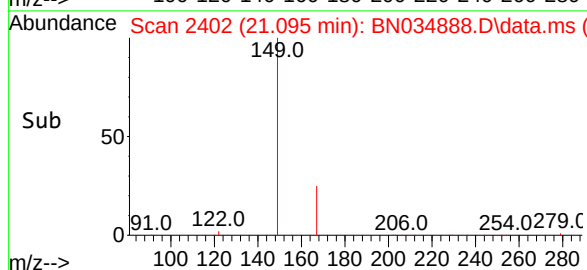
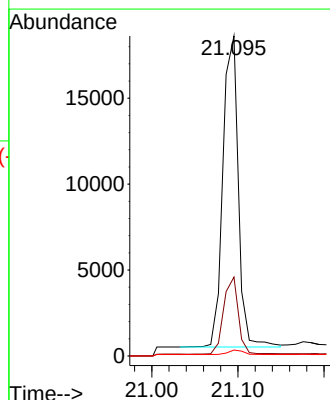
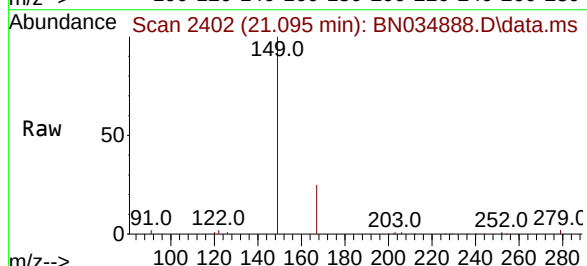
Tgt Ion:149 Resp: 22429

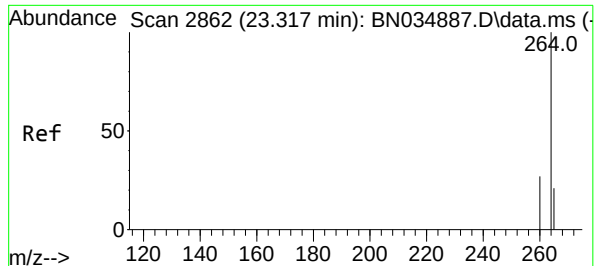
Ion Ratio Lower Upper

149 100

167 23.6 18.1 27.1

279 1.5 1.2 1.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.315 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

Tgt Ion:264 Resp: 1089

Ion Ratio Lower Upper

264 100

260 27.6 22.2 33.2

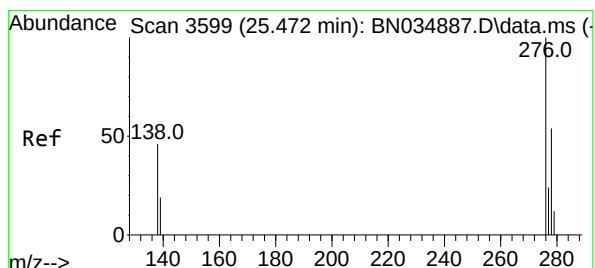
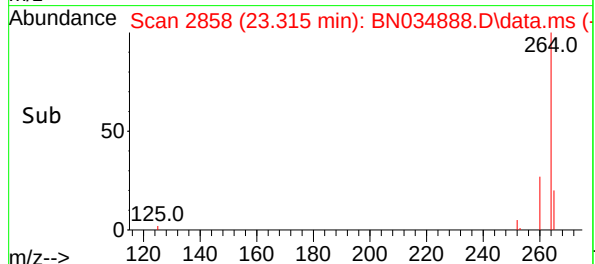
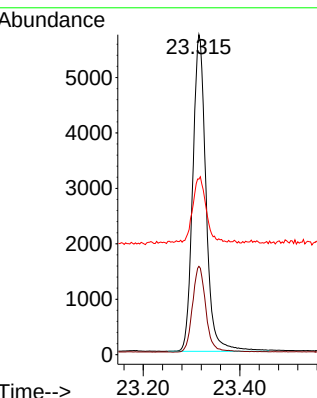
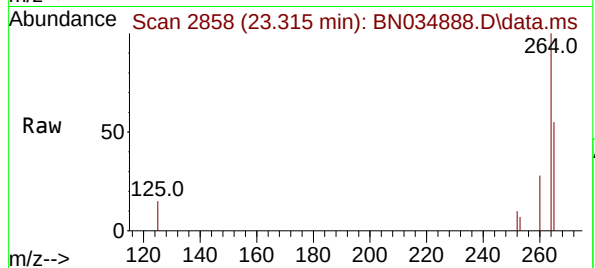
265 54.9 60.9 91.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.828 ng

RT: 25.473 min Scan# 3596

Delta R.T. 0.001 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

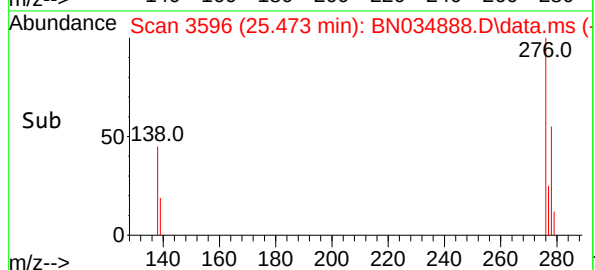
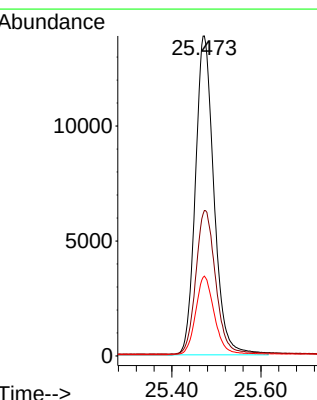
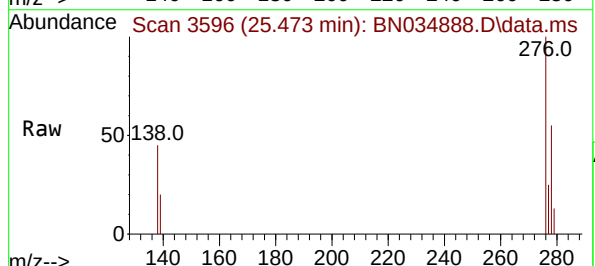
Tgt Ion:276 Resp: 40211

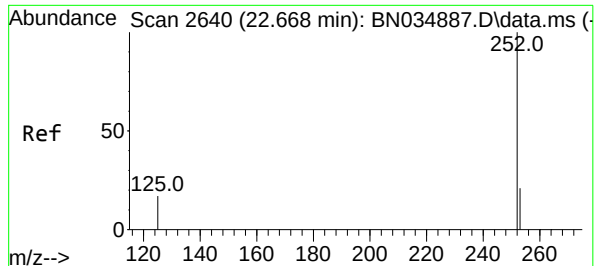
Ion Ratio Lower Upper

276 100

138 47.9 38.4 57.6

277 24.7 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.864 ng m

RT: 22.669 min Scan# 2637

Delta R.T. 0.001 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

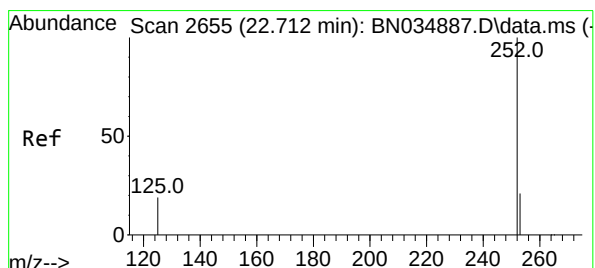
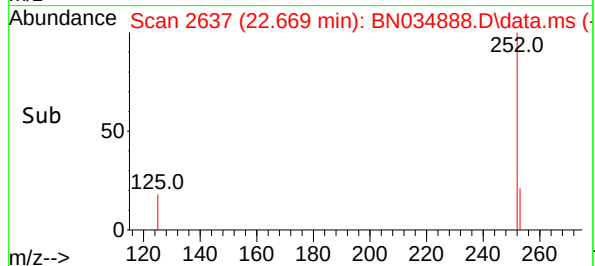
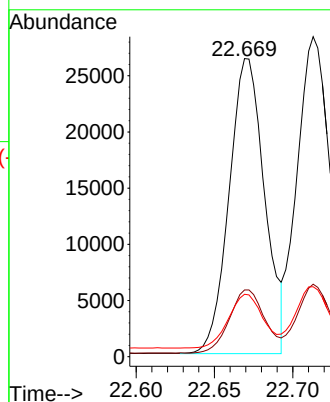
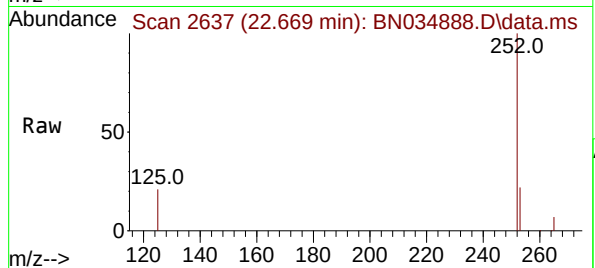
Tgt Ion:252	Resp:	4141
Ion Ratio	Lower	Upper
252	100	
253	22.4	19.4 29.2
125	20.9	21.4 32.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#38

Benzo(k)fluoranthene

Concen: 0.865 ng

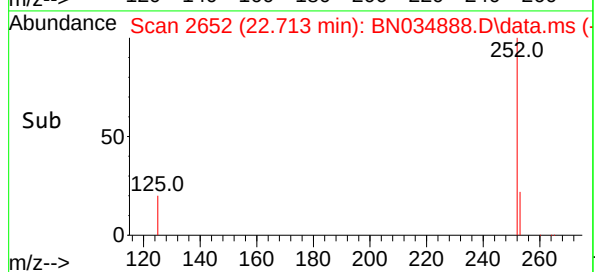
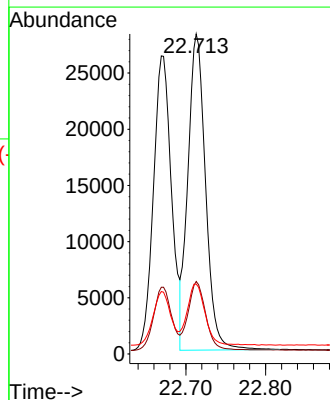
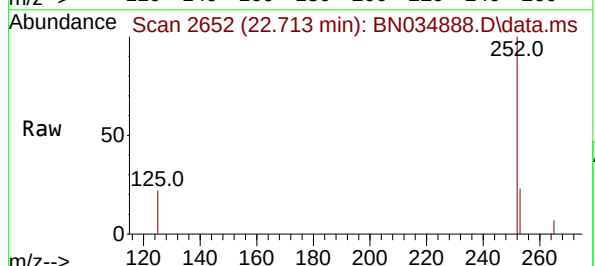
RT: 22.713 min Scan# 2652

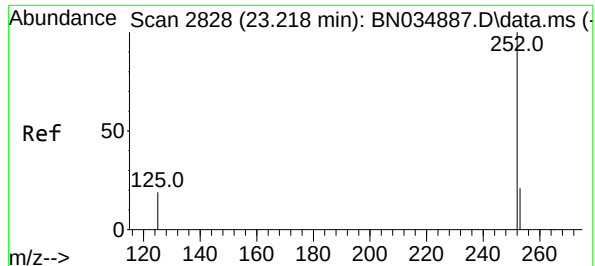
Delta R.T. 0.001 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

Tgt Ion:252	Resp:	43204
Ion Ratio	Lower	Upper
252	100	
253	22.7	19.8 29.8
125	21.9	22.6 33.8





#39

Benzo(a)pyrene

Concen: 0.845 ng

RT: 23.222 min Scan# 2826

Delta R.T. 0.004 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

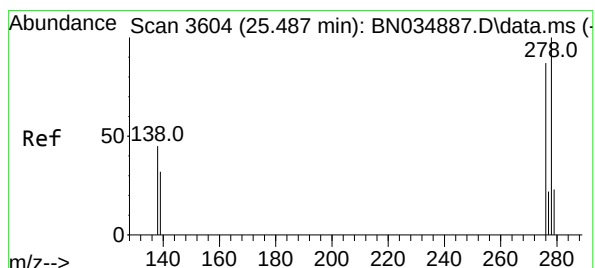
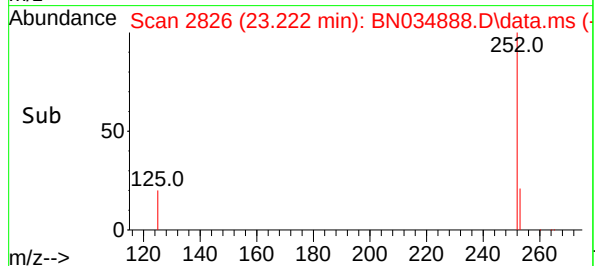
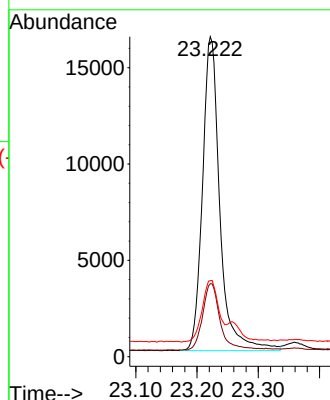
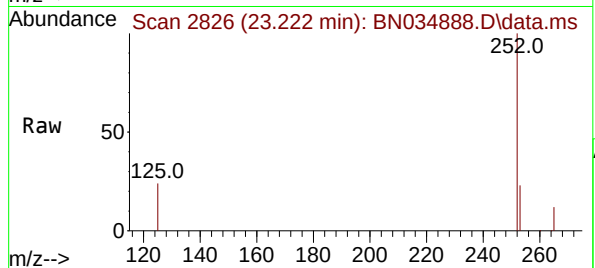
Tgt Ion:	252	Resp:	3214
Ion Ratio	Lower	Upper	
252	100		
253	22.8	21.4	32.2
125	23.8	27.8	41.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.825 ng

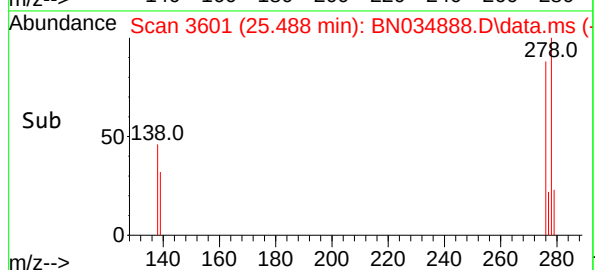
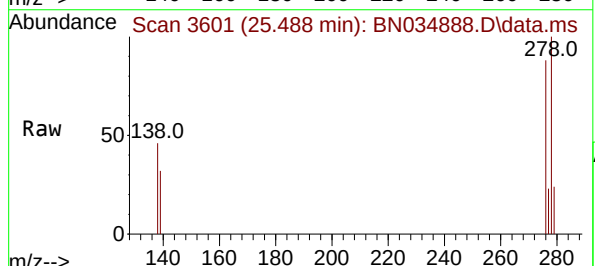
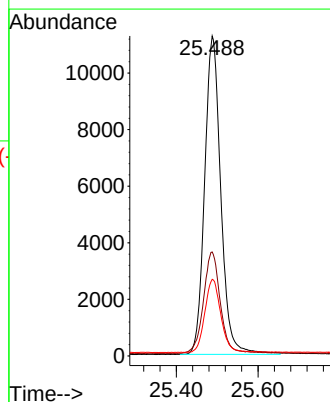
RT: 25.488 min Scan# 3601

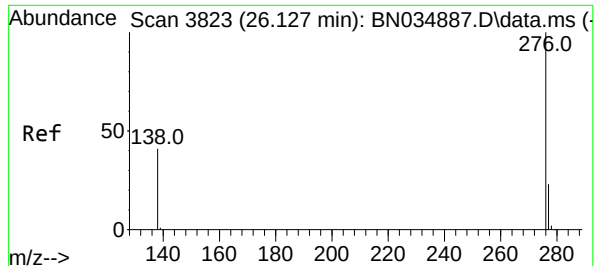
Delta R.T. 0.001 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

Tgt Ion:	278	Resp:	31006
Ion Ratio	Lower	Upper	
278	100		
139	32.5	27.2	40.8
279	24.0	21.4	32.0





#41

Benzo(g,h,i)perylene

Concen: 0.812 ng

RT: 26.128 min Scan# 3823

Delta R.T. 0.001 min

Lab File: BN034888.D

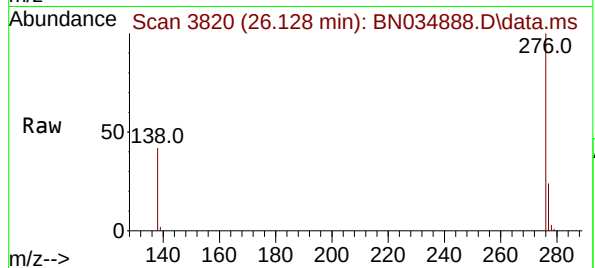
Acq: 07 Nov 2024 12:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



Tgt Ion:276 Resp: 3236

Ion Ratio Lower Upper

276 100

277 24.2 20.2 30.2

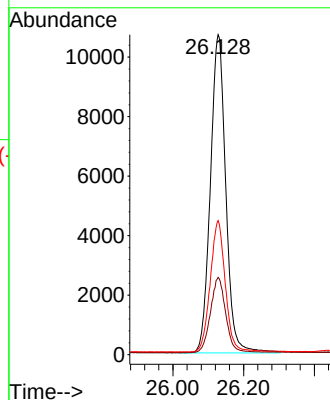
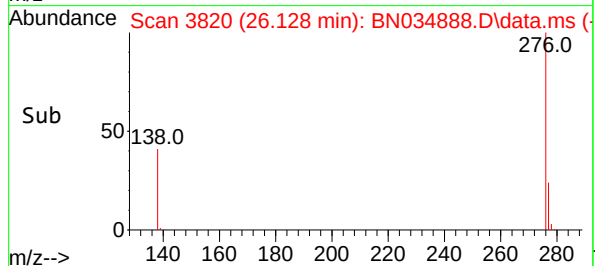
138 41.9 33.9 50.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
 Data File : BN034889.D
 Acq On : 07 Nov 2024 12:36
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Nov 07 14:41:51 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 07 14:34:20 2024
 Response via : Initial Calibration

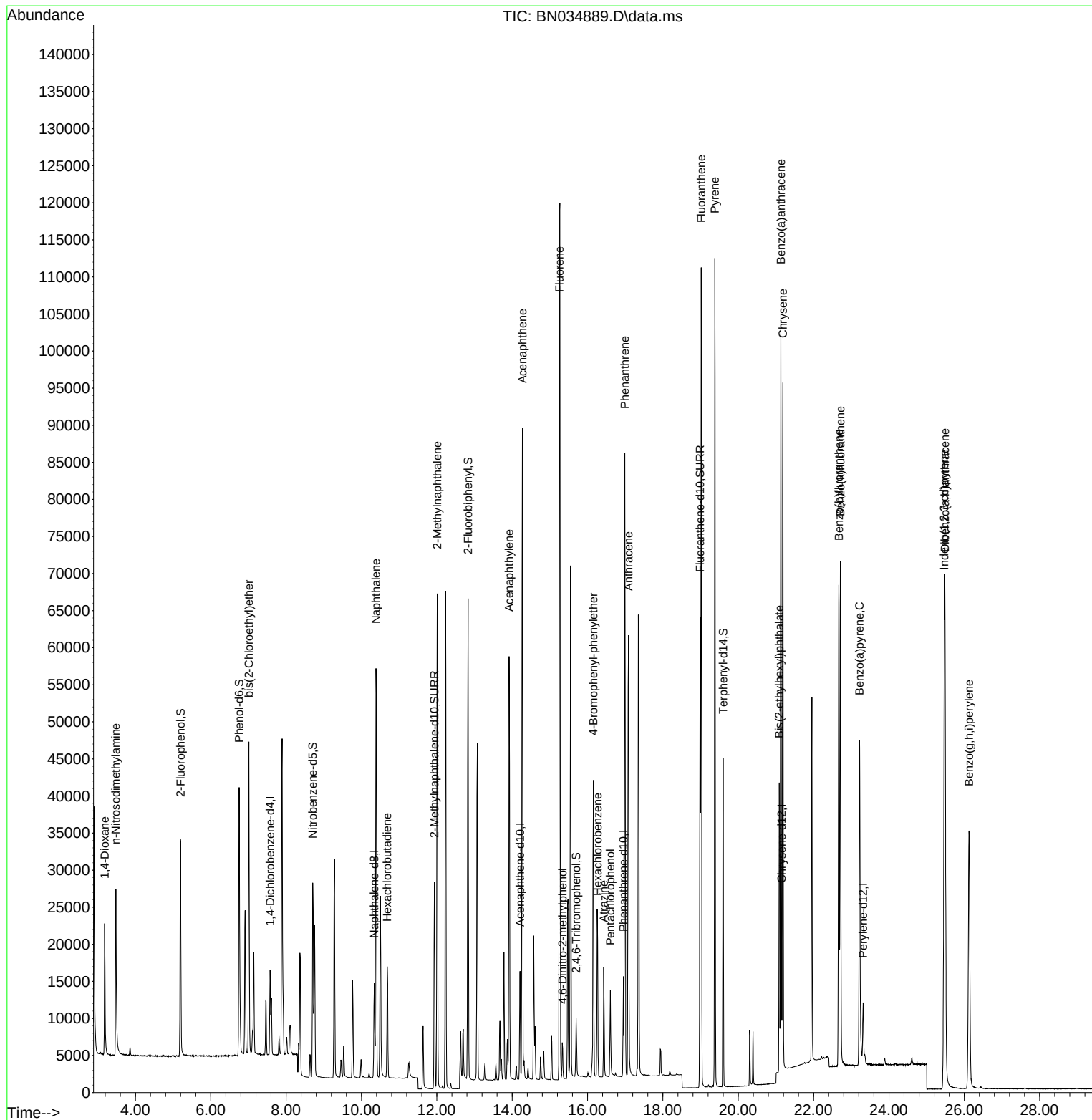
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	5204	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	15811	0.400	ng	0.00
13) Acenaphthene-d10	14.208	164	7544	0.400	ng	0.00
19) Phenanthrene-d10	16.952	188	15793	0.400	ng	# 0.00
29) Chrysene-d12	21.149	240	11169	0.400	ng	0.00
35) Perylene-d12	23.315	264	10016	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.199	112	23855	1.645	ng	0.00
5) Phenol-d6	6.752	99	32264	1.676	ng	0.00
8) Nitrobenzene-d5	8.707	82	20491	1.663	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	36510	1.694	ng	0.00
14) 2,4,6-Tribromophenol	15.698	330	3893	1.649	ng	0.00
15) 2-Fluorobiphenyl	12.829	172	52711	1.654	ng	0.00
27) Fluoranthene-d10	18.990	212	61684	1.732	ng	0.00
31) Terphenyl-d14	19.598	244	33522	1.602	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.184	88	10368	1.577	ng	99
3) n-Nitrosodimethylamine	3.480	42	14815	1.670	ng	99
6) bis(2-Chloroethyl)ether	7.012	93	27804	1.674	ng	100
9) Naphthalene	10.383	128	73745	1.681	ng	99
10) Hexachlorobutadiene	10.682	225	11536	1.650	ng	# 98
12) 2-Methylnaphthalene	12.011	142	45738	1.703	ng	99
16) Acenaphthylene	13.919	152	61551	1.691	ng	100
17) Acenaphthene	14.272	154	42622	1.692	ng	96
18) Fluorene	15.256	166	53684	1.712	ng	100
20) 4,6-Dinitro-2-methylph...	15.341	198	2808	1.627	ng	# 24
21) 4-Bromophenyl-phenylether	16.158	248	13834	1.643	ng	# 87
22) Hexachlorobenzene	16.269	284	16414	1.620	ng	98
23) Atrazine	16.431	200	10655	1.747	ng	93
24) Pentachlorophenol	16.604	266	5021	1.613	ng	97
25) Phenanthrene	16.989	178	80617	1.664	ng	100
26) Anthracene	17.088	178	70474	1.687	ng	100
28) Fluoranthene	19.018	202	89552	1.757	ng	100
30) Pyrene	19.380	202	90808	1.606	ng	100
32) Benzo(a)anthracene	21.131	228	74313	1.707	ng	99
33) Chrysene	21.185	228	76360	1.657	ng	99
34) Bis(2-ethylhexyl)phtha...	21.086	149	37441	1.498	ng	98
36) Indeno(1,2,3-cd)pyrene	25.470	276	74827	1.677	ng	99
37) Benzo(b)fluoranthene	22.669	252	72667	1.650	ng	# 90
38) Benzo(k)fluoranthene	22.713	252	77370	1.685	ng	# 89
39) Benzo(a)pyrene	23.219	252	58843	1.684	ng	# 84
40) Dibenzo(a,h)anthracene	25.485	278	57968	1.679	ng	95
41) Benzo(g,h,i)perylene	26.125	276	60450	1.649	ng	96

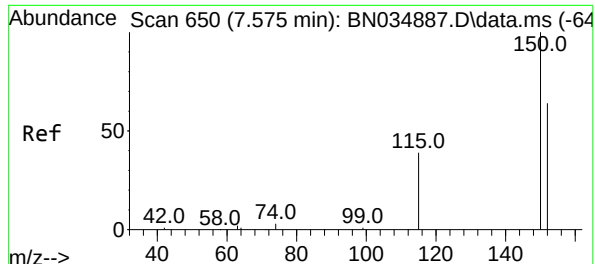
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN034889.D
Acq On : 07 Nov 2024 12:36
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Nov 07 14:41:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 14:34:20 2024
Response via : Initial Calibration

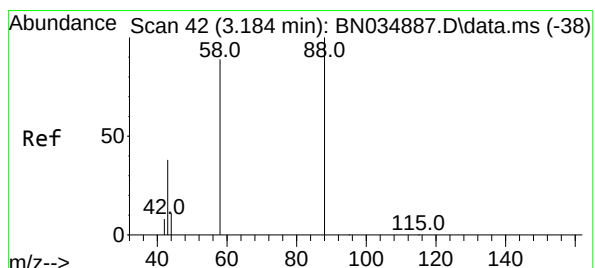
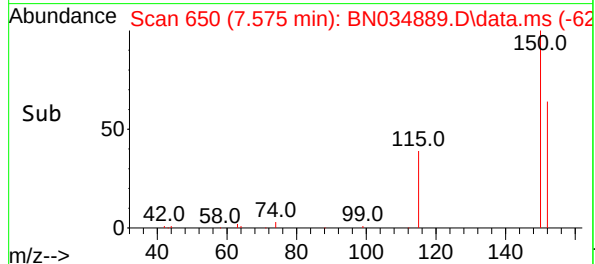
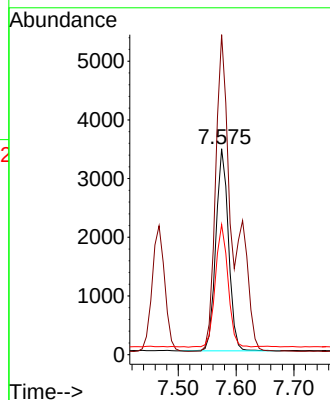
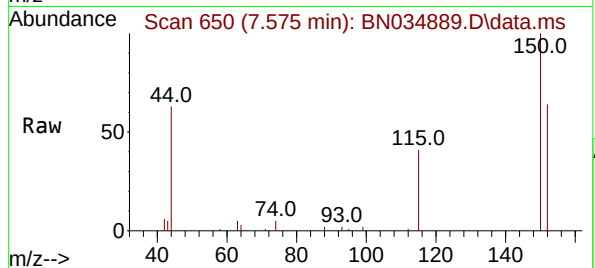




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

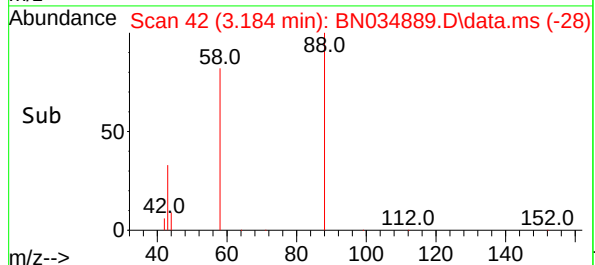
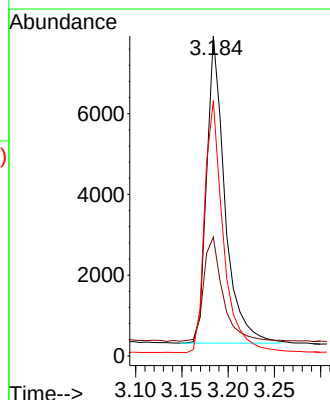
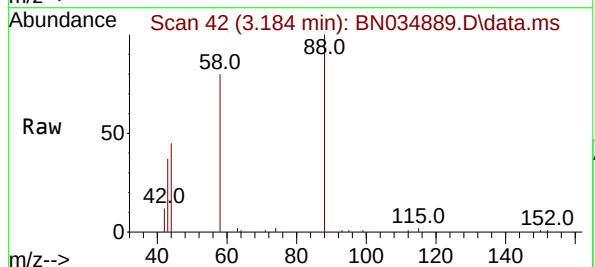
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

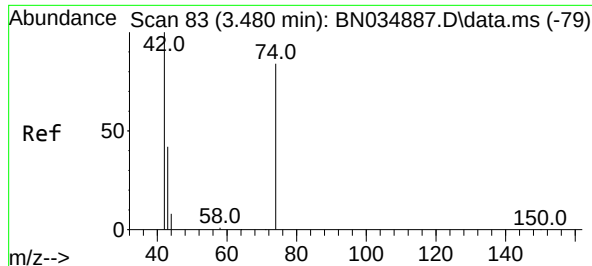
Tgt Ion:152 Resp: 5204
Ion Ratio Lower Upper
152 100
150 155.4 124.4 186.6
115 63.2 50.5 75.7



#2
1,4-Dioxane
Concen: 1.577 ng
RT: 3.184 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

Tgt Ion: 88 Resp: 10368
Ion Ratio Lower Upper
88 100
43 36.0 28.2 42.2
58 84.4 67.1 100.7

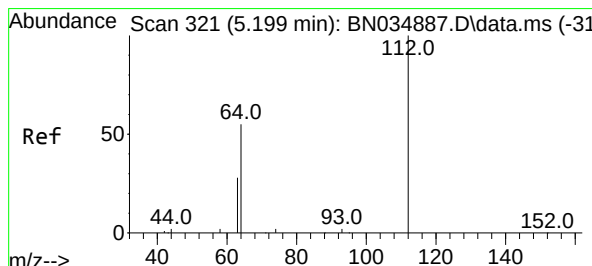
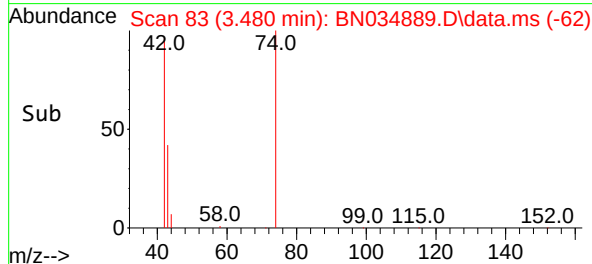
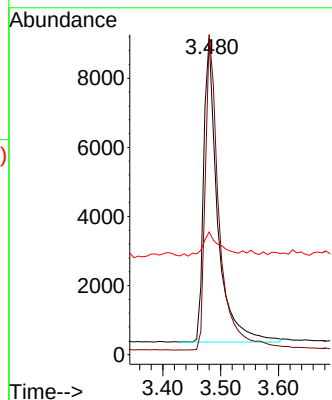
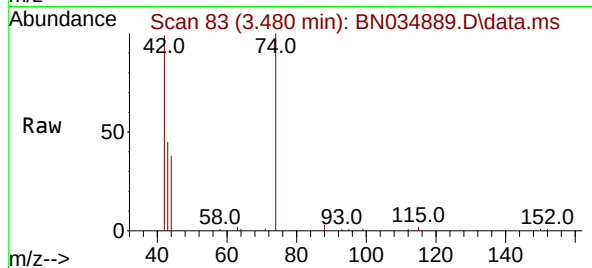




#3
n-Nitrosodimethylamine
Concen: 1.670 ng
RT: 3.480 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

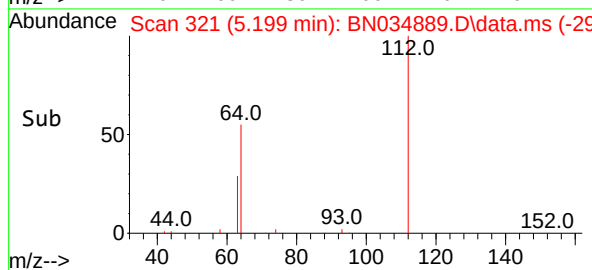
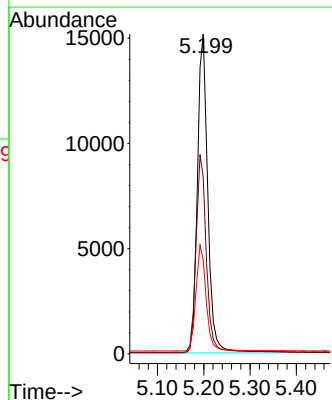
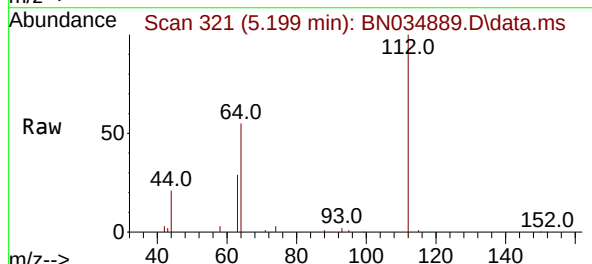
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

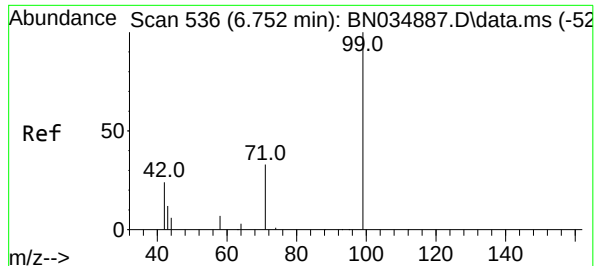
Tgt Ion: 42 Resp: 14815
Ion Ratio Lower Upper
42 100
74 103.9 83.4 125.2
44 9.3 8.6 12.8



#4
2-Fluorophenol
Concen: 1.645 ng
RT: 5.199 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

Tgt Ion: 112 Resp: 23855
Ion Ratio Lower Upper
112 100
64 61.6 49.6 74.4
63 32.5 26.3 39.5

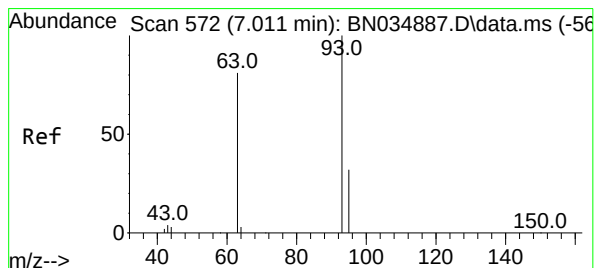
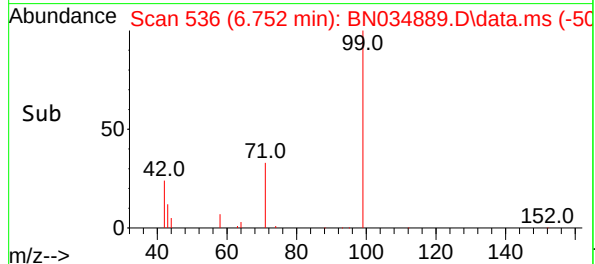
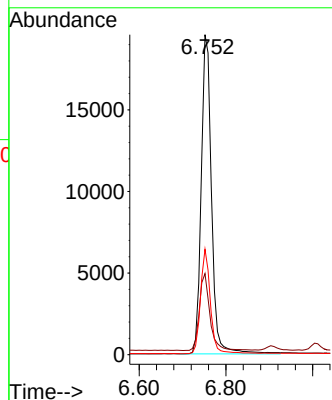
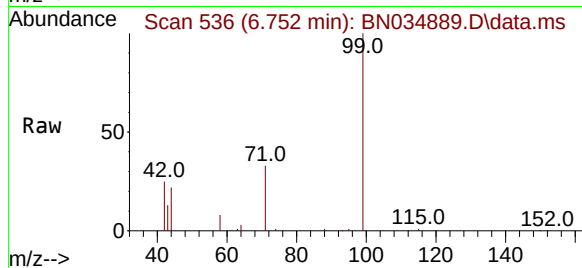




#5
Phenol-d6
Concen: 1.676 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

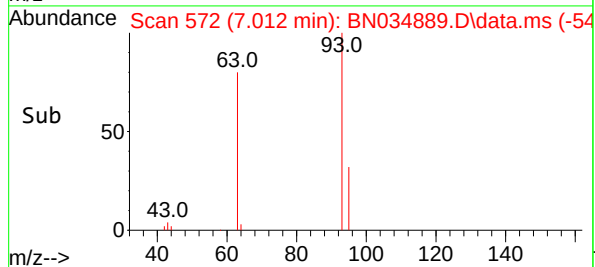
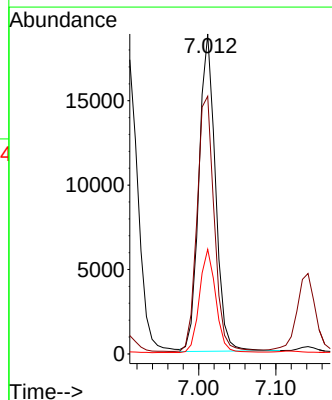
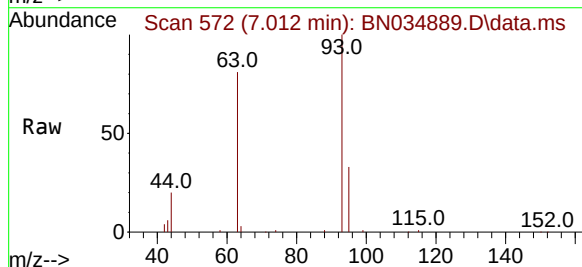
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

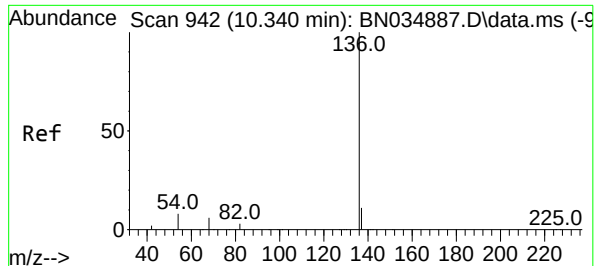
Tgt Ion	Ratio	Lower	Upper
99	100		
42	24.8	20.2	30.2
71	31.4	25.4	38.0



#6
bis(2-Chloroethyl)ether
Concen: 1.674 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

Tgt Ion	Ratio	Lower	Upper
93	100		
63	84.2	67.5	101.3
95	32.4	25.7	38.5

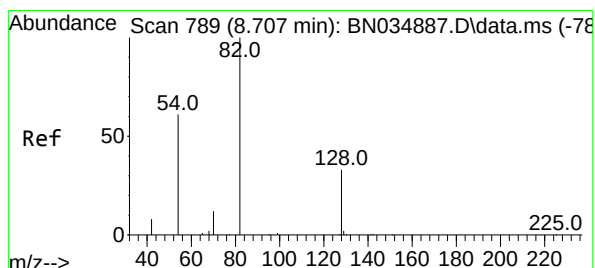
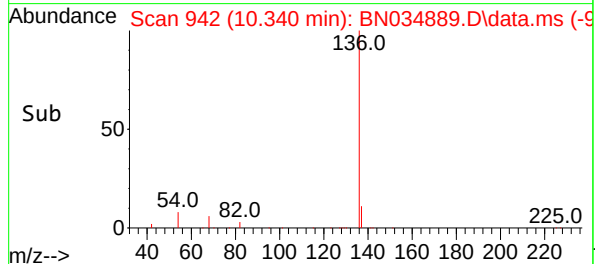
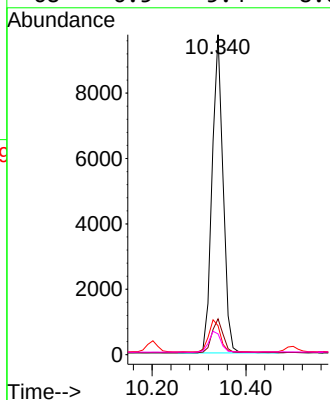
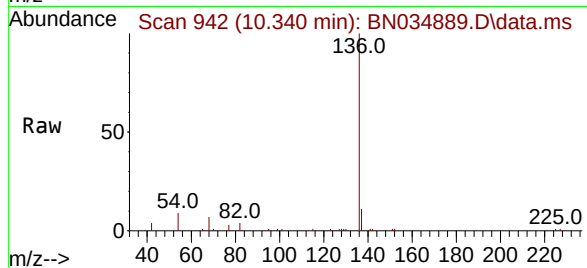




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

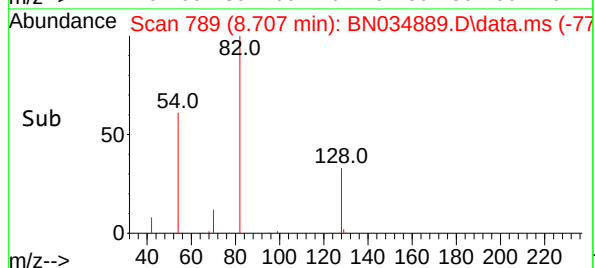
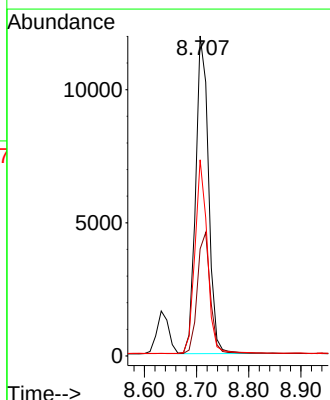
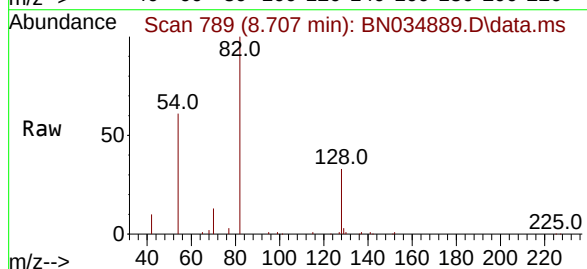
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

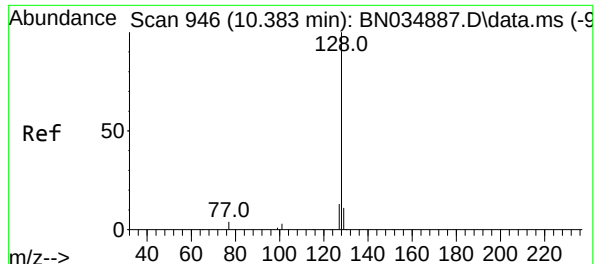
Tgt Ion:	136	Resp:	15811
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	9.1	6.9	10.3
68	6.5	5.4	8.0



#8
Nitrobenzene-d5
Concen: 1.663 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

Tgt Ion:	82	Resp:	20491
Ion Ratio	Lower	Upper	
82	100		
128	33.4	28.1	42.1
54	61.3	49.8	74.6





#9

Naphthalene

Concen: 1.681 ng

RT: 10.383 min Scan# 946

Delta R.T. 0.000 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

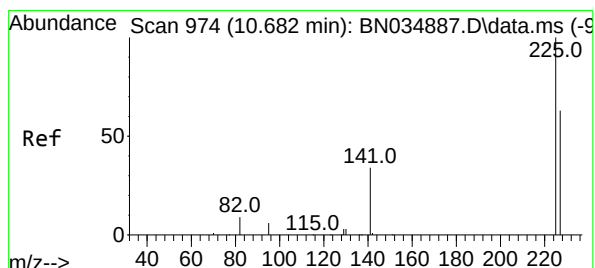
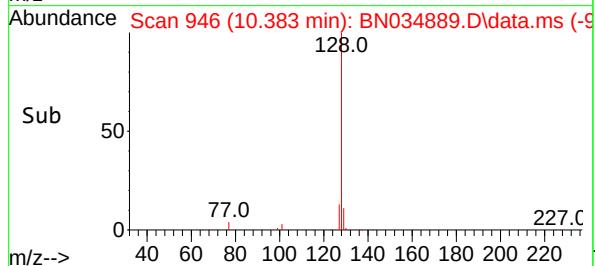
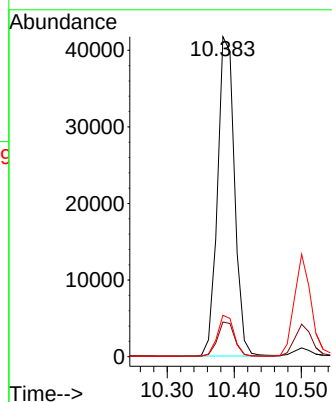
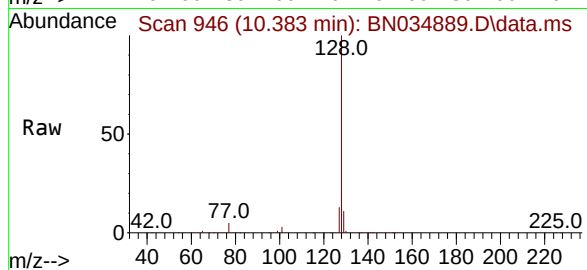
Tgt Ion:128 Resp: 73745

Ion Ratio Lower Upper

128 100

129 10.9 9.0 13.4

127 12.9 10.8 16.2



#10

Hexachlorobutadiene

Concen: 1.650 ng

RT: 10.682 min Scan# 974

Delta R.T. 0.000 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

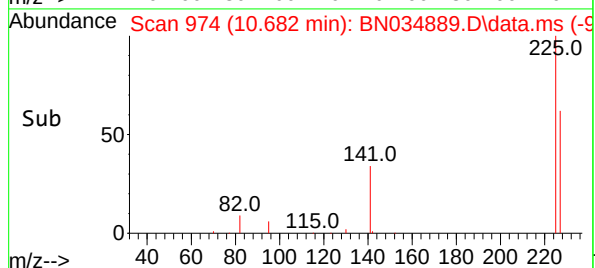
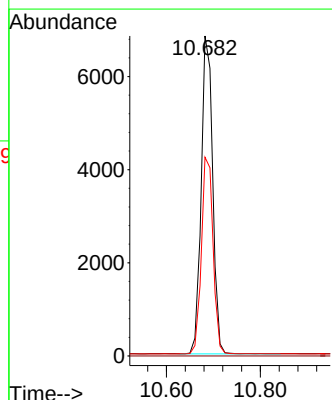
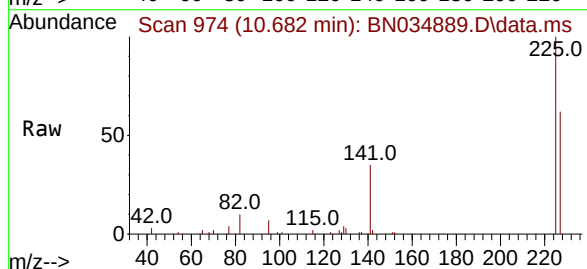
Tgt Ion:225 Resp: 11536

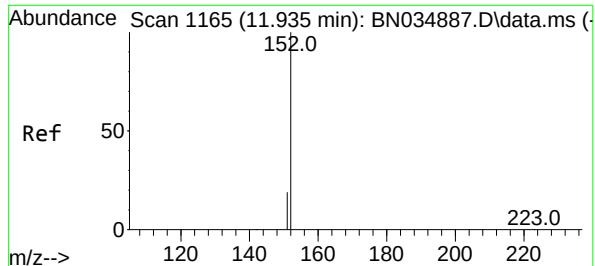
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.2 52.0 78.0

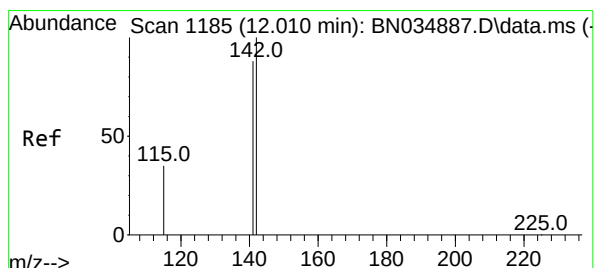
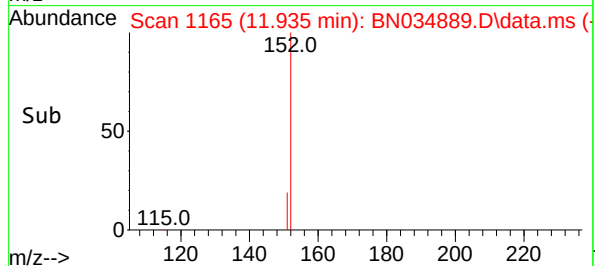
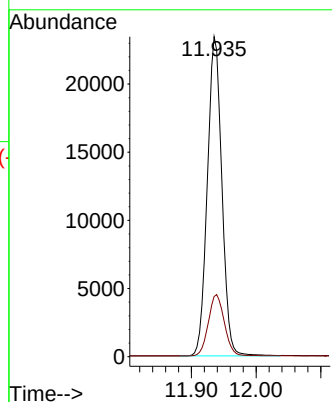
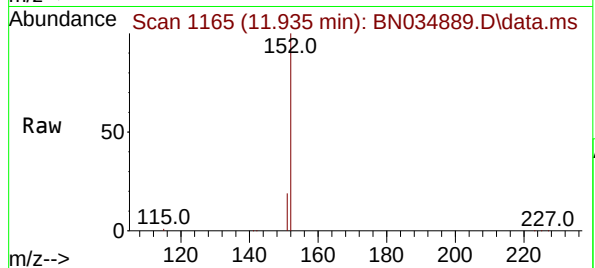




#11
2-Methylnaphthalene-d10
Concen: 1.694 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

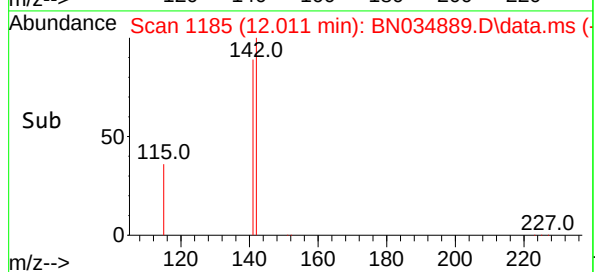
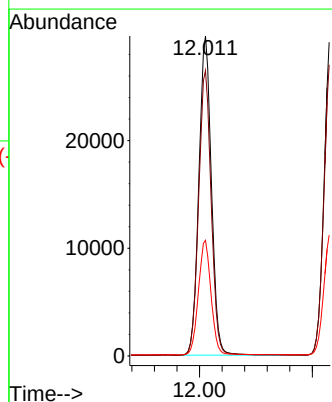
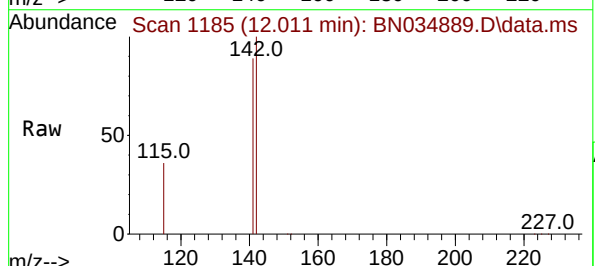
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

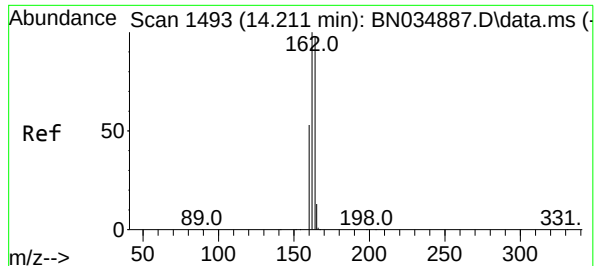
Tgt Ion:152 Resp: 36510
Ion Ratio Lower Upper
152 100
151 21.3 17.1 25.7



#12
2-Methylnaphthalene
Concen: 1.703 ng
RT: 12.011 min Scan# 1185
Delta R.T. 0.000 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

Tgt Ion:142 Resp: 45738
Ion Ratio Lower Upper
142 100
141 89.2 70.5 105.7
115 36.1 29.4 44.2

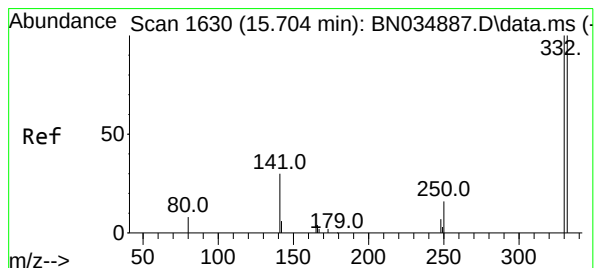
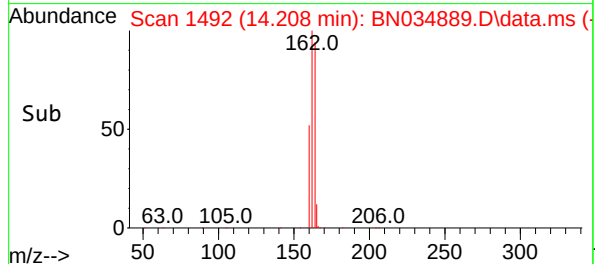
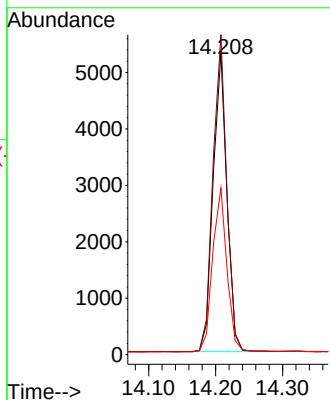
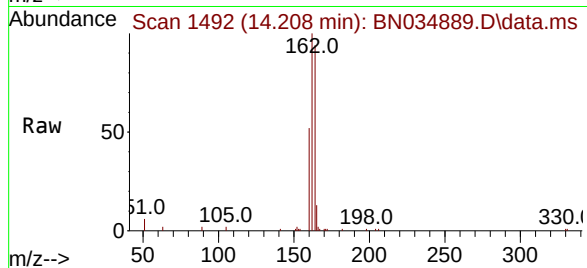




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.208 min Scan# 1492
Delta R.T. -0.003 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

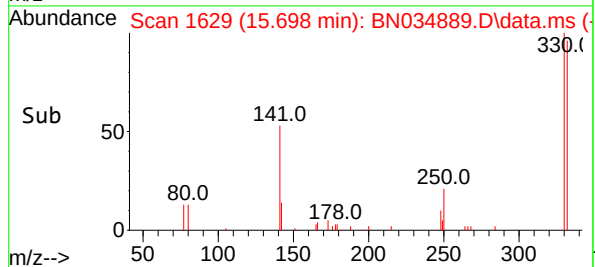
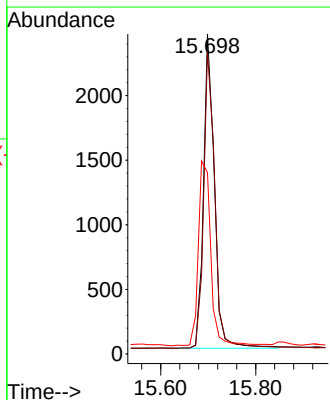
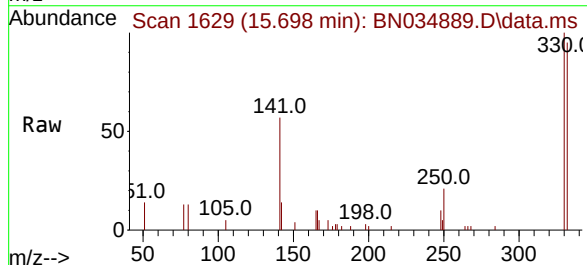
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

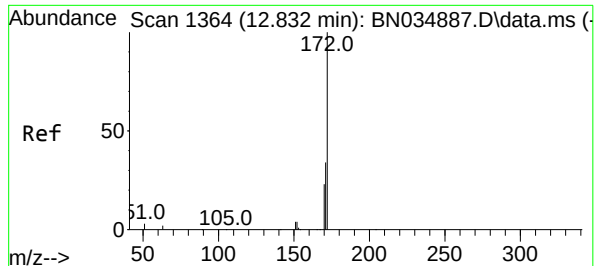
Tgt Ion:164 Resp: 7544
Ion Ratio Lower Upper
164 100
162 106.0 81.9 122.9
160 55.2 43.5 65.3



#14
2,4,6-Tribromophenol
Concen: 1.649 ng
RT: 15.698 min Scan# 1629
Delta R.T. -0.006 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

Tgt Ion:330 Resp: 3893
Ion Ratio Lower Upper
330 100
332 96.1 77.1 115.7
141 67.2 54.1 81.1





#15

2-Fluorobiphenyl

Concen: 1.654 ng

RT: 12.829 min Scan# 1363

Delta R.T. -0.004 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

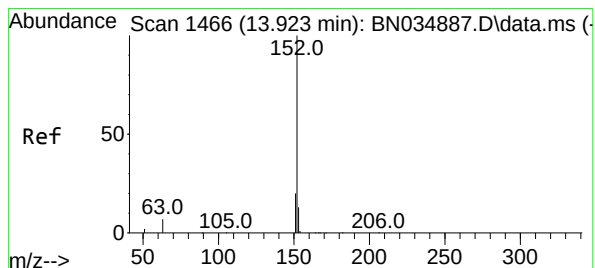
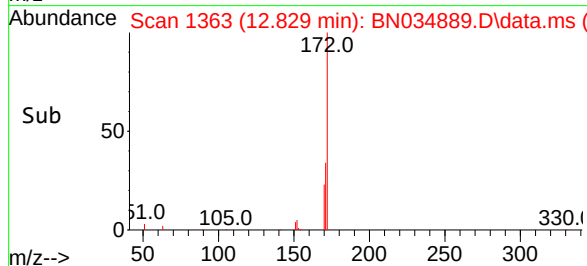
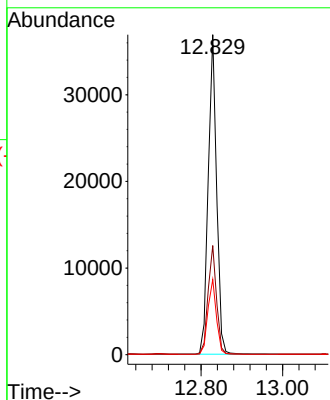
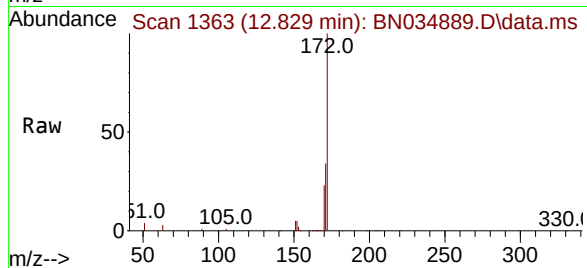
Tgt Ion:172 Resp: 52711

Ion Ratio Lower Upper

172 100

171 34.1 27.9 41.9

170 23.5 19.0 28.4



#16

Acenaphthylene

Concen: 1.691 ng

RT: 13.919 min Scan# 1465

Delta R.T. -0.004 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

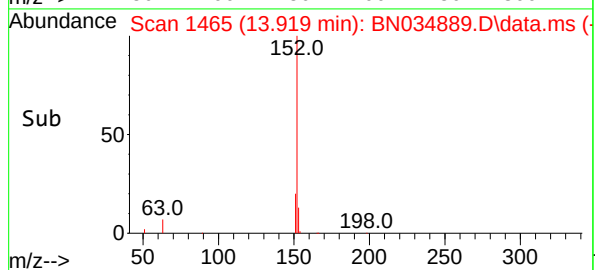
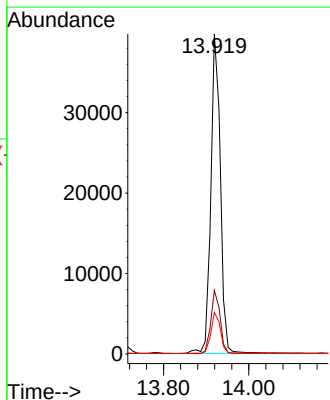
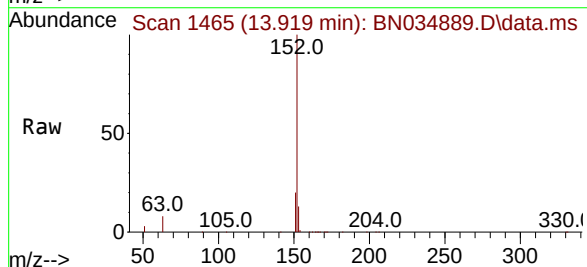
Tgt Ion:152 Resp: 61551

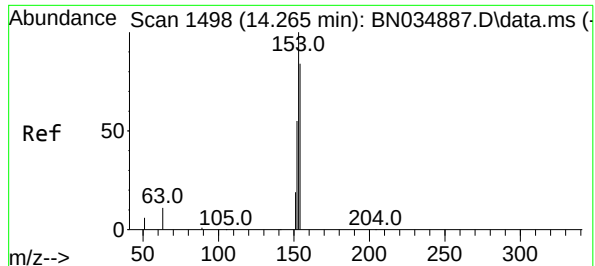
Ion Ratio Lower Upper

152 100

151 19.3 15.2 22.8

153 12.9 10.4 15.6

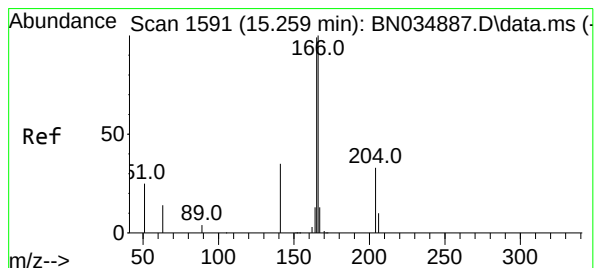
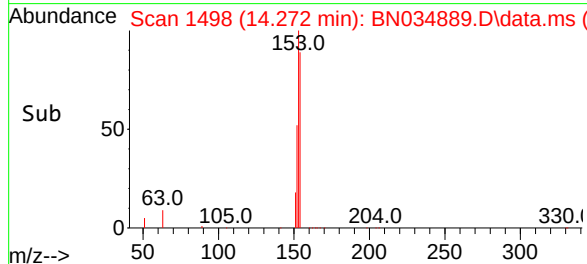
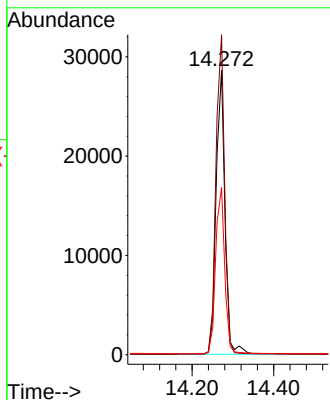
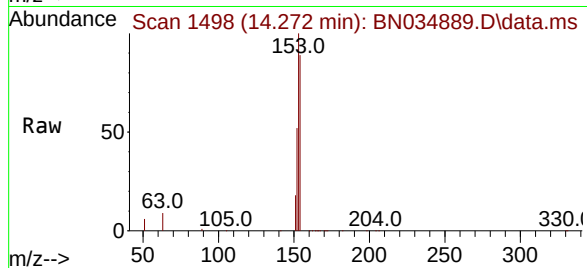




#17
Acenaphthene
Concen: 1.692 ng
RT: 14.272 min Scan# 1498
Delta R.T. 0.007 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

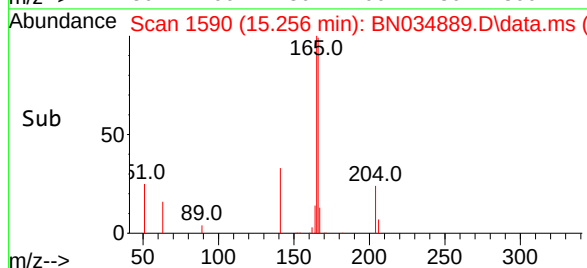
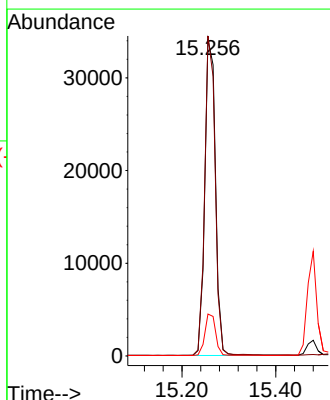
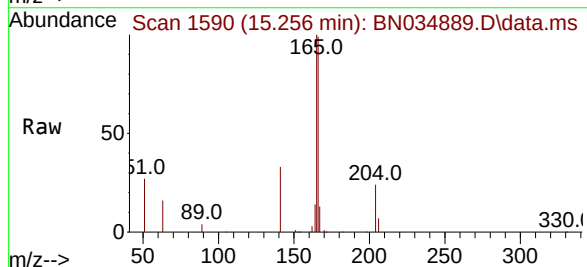
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

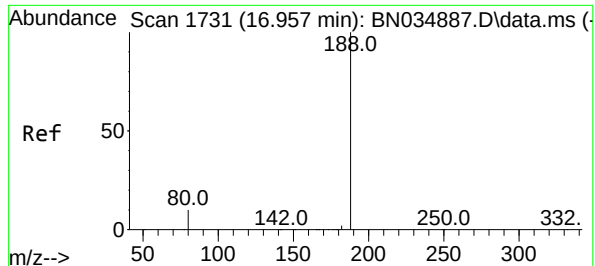
Tgt Ion:154 Resp: 42622
Ion Ratio Lower Upper
154 100
153 111.3 92.2 138.2
152 60.6 51.1 76.7



#18
Fluorene
Concen: 1.712 ng
RT: 15.256 min Scan# 1590
Delta R.T. -0.004 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

Tgt Ion:166 Resp: 53684
Ion Ratio Lower Upper
166 100
165 99.0 79.5 119.3
167 13.2 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.952 min Scan# 1731

Delta R.T. -0.005 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

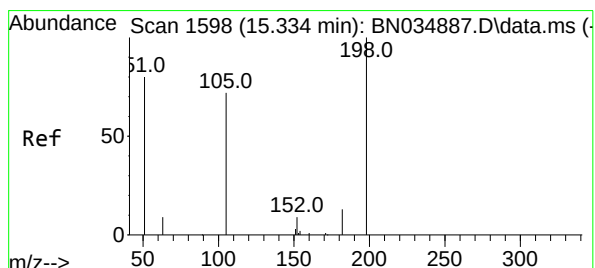
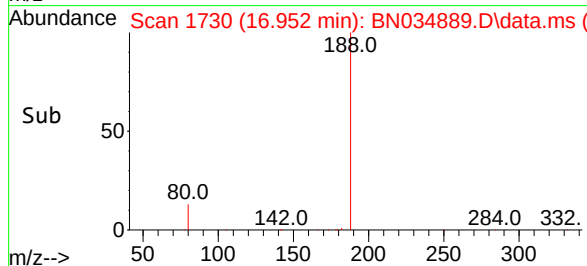
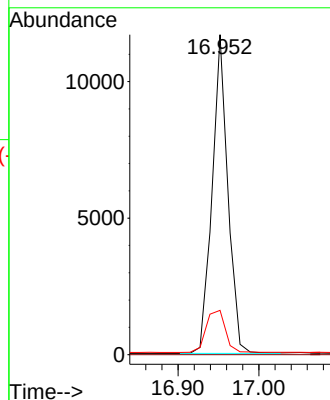
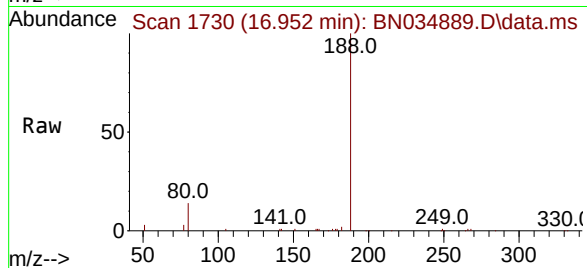
Tgt Ion:188 Resp: 15793

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.8 8.6 12.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 1.627 ng

RT: 15.341 min Scan# 1598

Delta R.T. 0.007 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

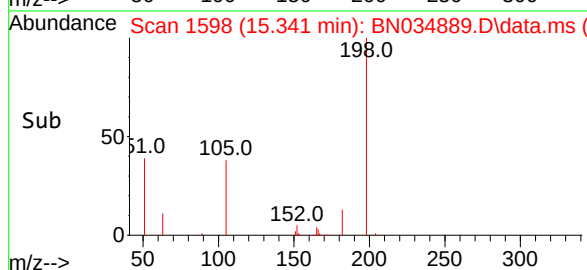
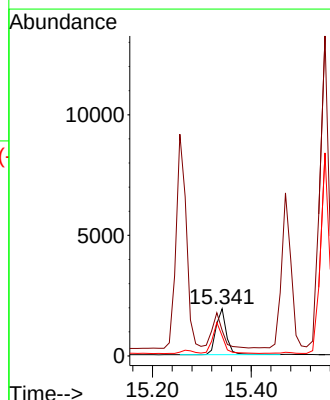
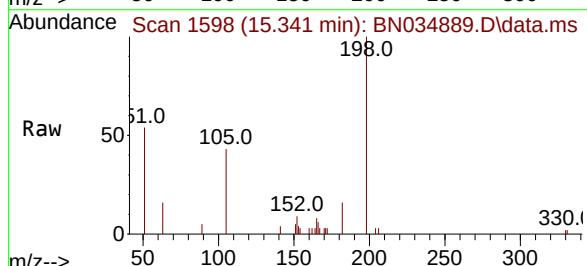
Tgt Ion:198 Resp: 2808

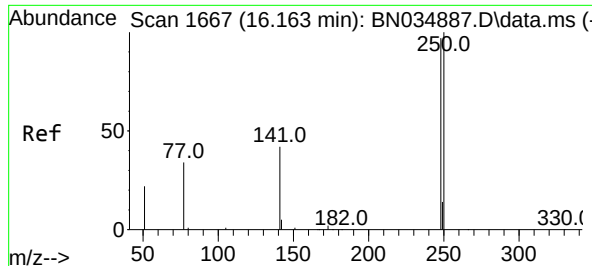
Ion Ratio Lower Upper

198 100

51 54.1 141.8 212.8#

105 42.5 75.6 113.4#





#21

4-Bromophenyl-phenylether

Concen: 1.643 ng

RT: 16.158 min Scan# 1666

Delta R.T. -0.005 min

Lab File: BN034889.D

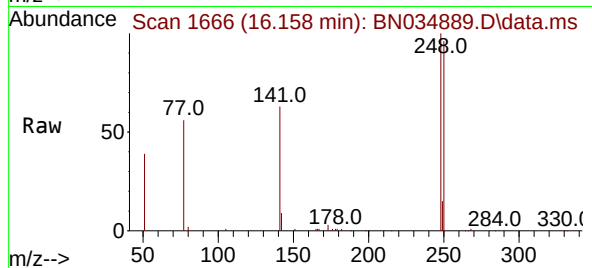
Acq: 07 Nov 2024 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



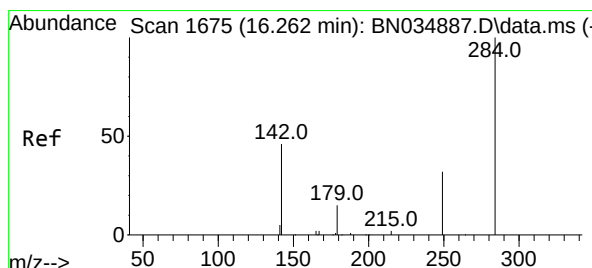
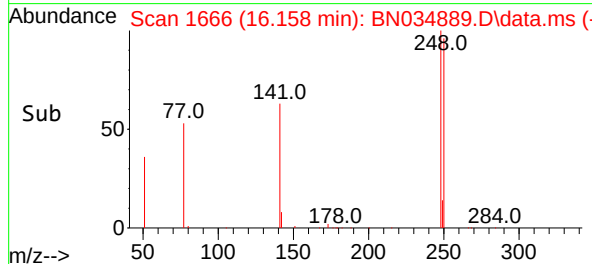
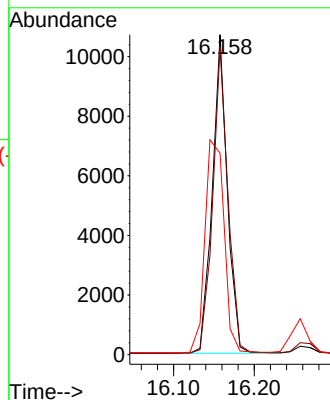
Tgt Ion:248 Resp: 13834

Ion Ratio Lower Upper

248 100

250 96.1 82.2 123.4

141 63.0 36.2 54.2#



#22

Hexachlorobenzene

Concen: 1.620 ng

RT: 16.269 min Scan# 1675

Delta R.T. 0.007 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

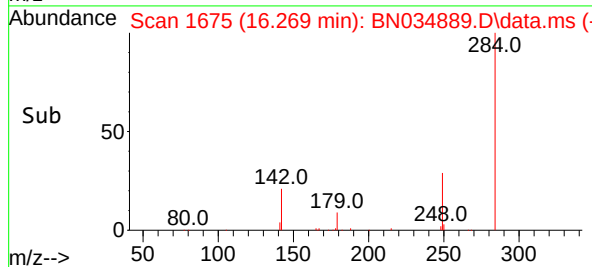
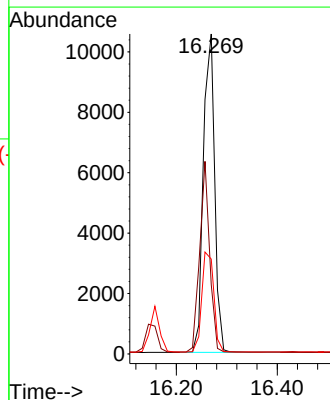
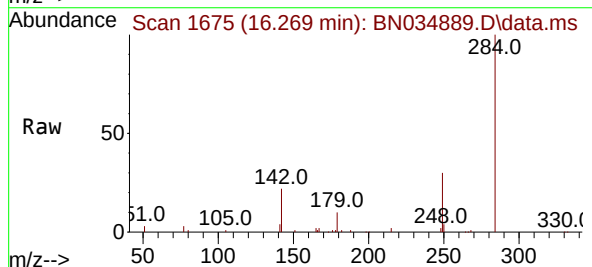
Tgt Ion:284 Resp: 16414

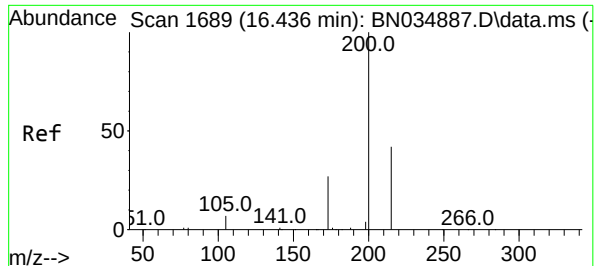
Ion Ratio Lower Upper

284 100

142 53.1 43.4 65.2

249 33.4 25.8 38.6

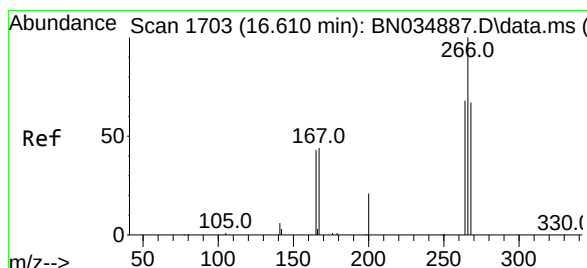
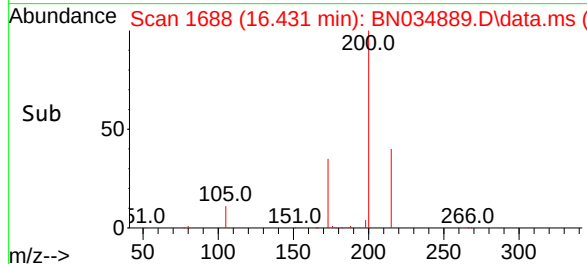
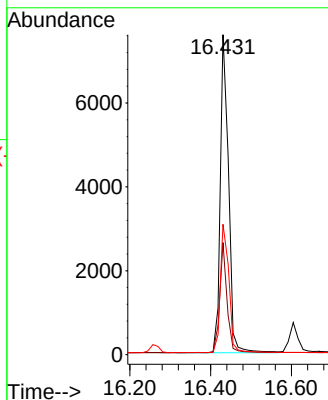
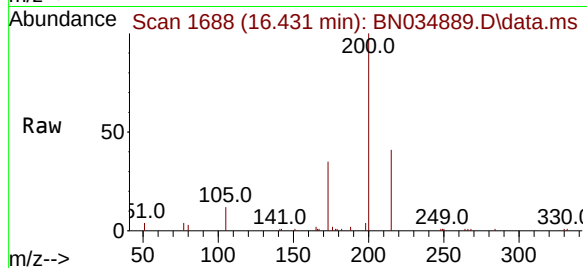




#23
Atrazine
Concen: 1.747 ng
RT: 16.431 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

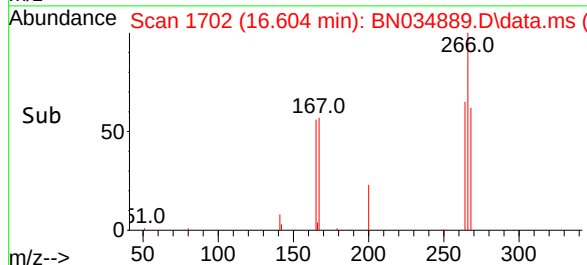
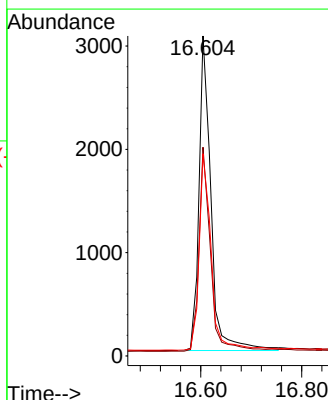
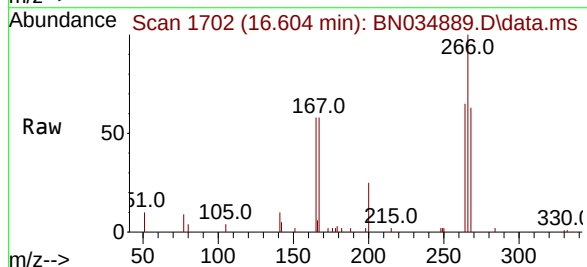
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

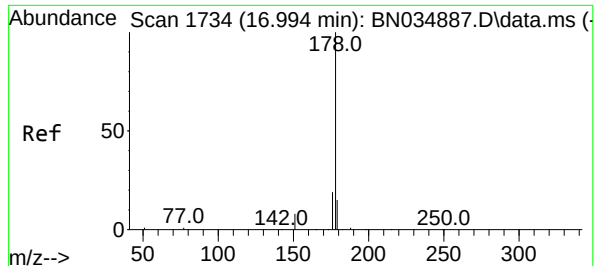
Tgt Ion	Ratio	Lower	Upper
200	100		
173	35.1	23.4	35.2
215	40.8	35.4	53.0



#24
Pentachlorophenol
Concen: 1.613 ng
RT: 16.604 min Scan# 1702
Delta R.T. -0.006 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.1	51.3	76.9
268	63.2	53.0	79.6

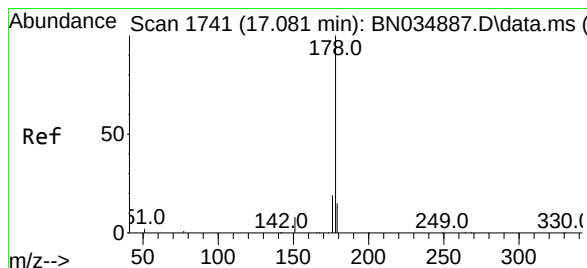
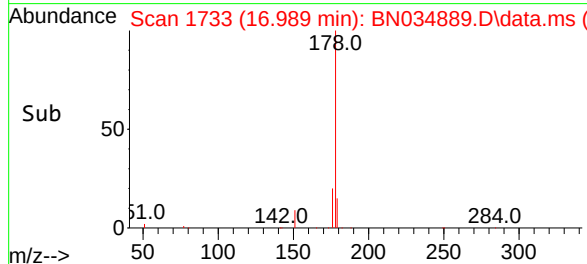
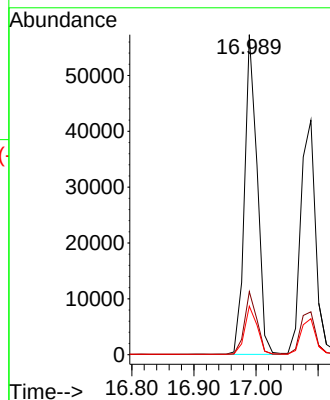
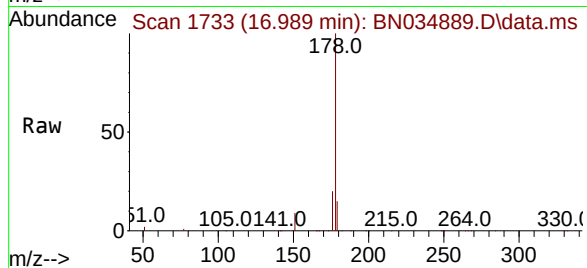




#25
Phenanthrene
Concen: 1.664 ng
RT: 16.989 min Scan# 1733
Delta R.T. -0.005 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

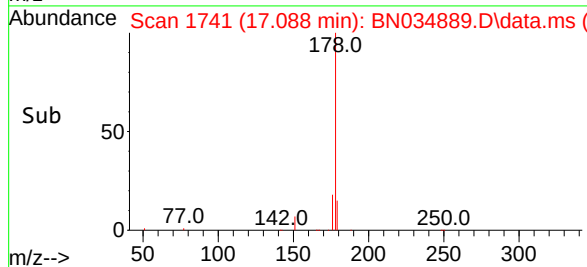
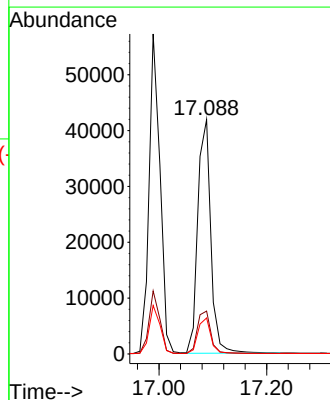
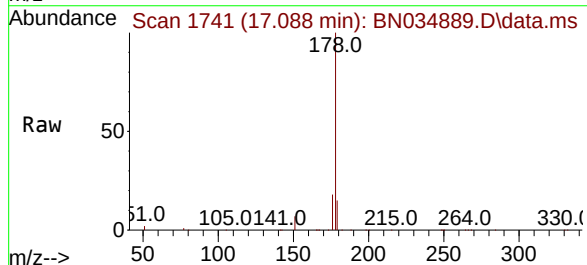
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

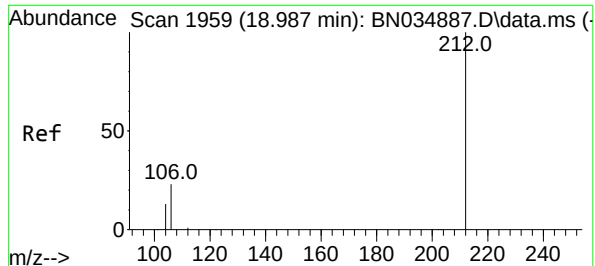
Tgt Ion:178 Resp: 80617
Ion Ratio Lower Upper
178 100
176 19.3 15.5 23.3
179 15.2 12.2 18.2



#26
Anthracene
Concen: 1.687 ng
RT: 17.088 min Scan# 1741
Delta R.T. 0.007 min
Lab File: BN034889.D
Acq: 07 Nov 2024 12:36

Tgt Ion:178 Resp: 70474
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.2 12.1 18.1





#27

Fluoranthene-d10

Concen: 1.732 ng

RT: 18.990 min Scan# 1958

Delta R.T. 0.002 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

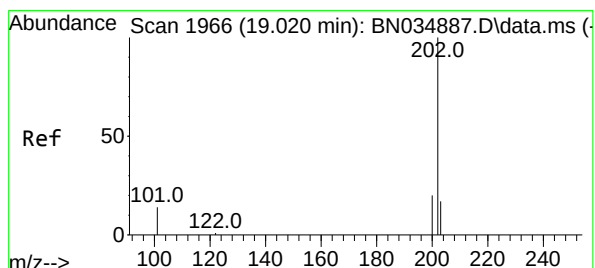
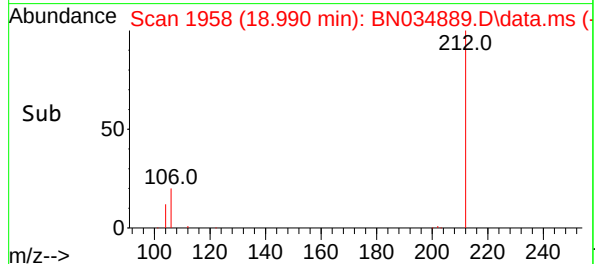
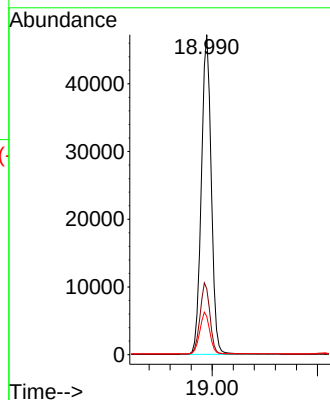
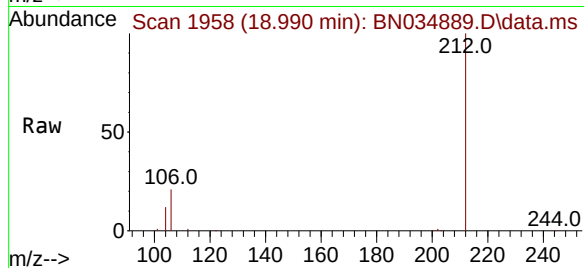
Tgt Ion:212 Resp: 61684

Ion Ratio Lower Upper

212 100

106 22.4 18.2 27.4

104 13.0 10.6 15.8



#28

Fluoranthene

Concen: 1.757 ng

RT: 19.018 min Scan# 1964

Delta R.T. -0.002 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

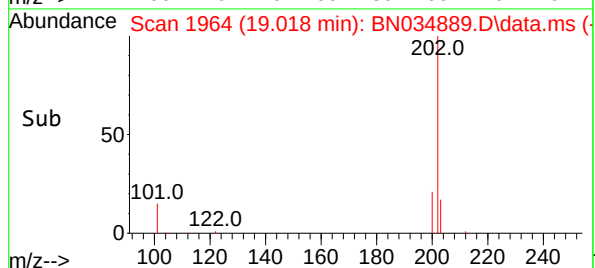
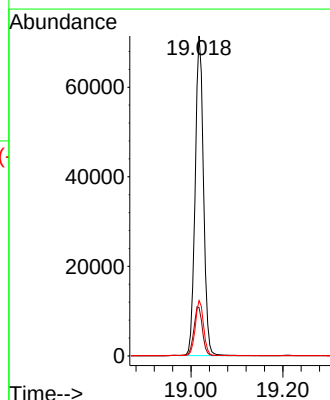
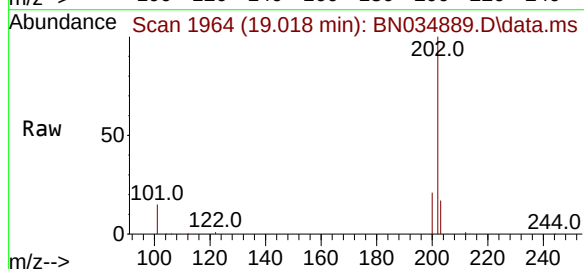
Tgt Ion:202 Resp: 89552

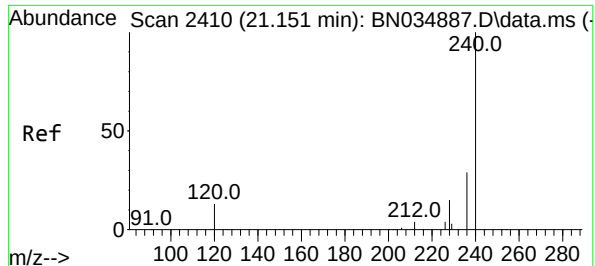
Ion Ratio Lower Upper

202 100

101 16.0 12.7 19.1

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.149 min Scan# 2408

Delta R.T. -0.002 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

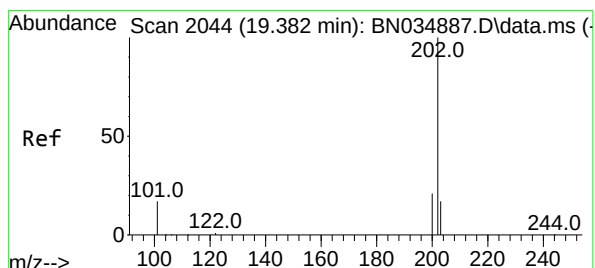
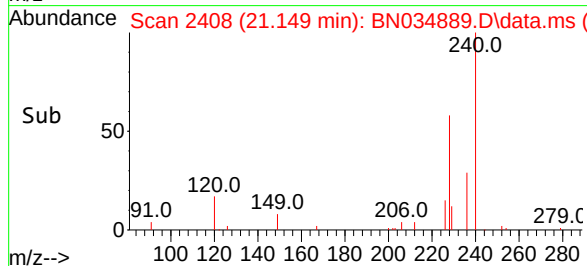
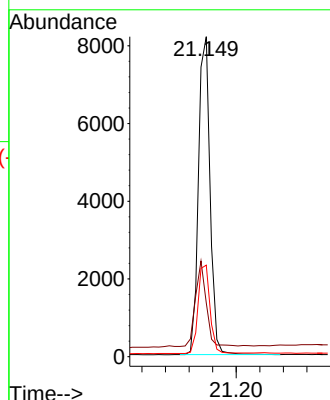
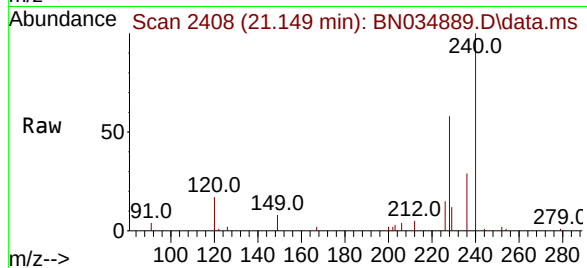
Tgt Ion:240 Resp: 11169

Ion Ratio Lower Upper

240 100

120 16.8 13.8 20.8

236 28.6 23.8 35.6



#30

Pyrene

Concen: 1.606 ng

RT: 19.380 min Scan# 2042

Delta R.T. -0.002 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

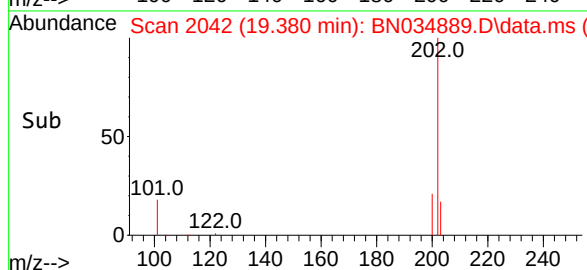
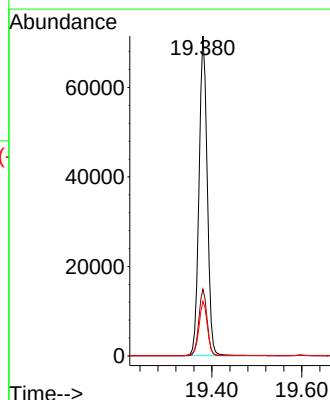
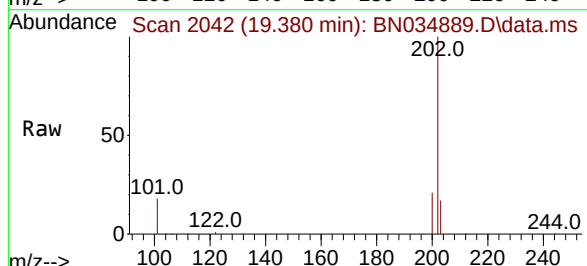
Tgt Ion:202 Resp: 90808

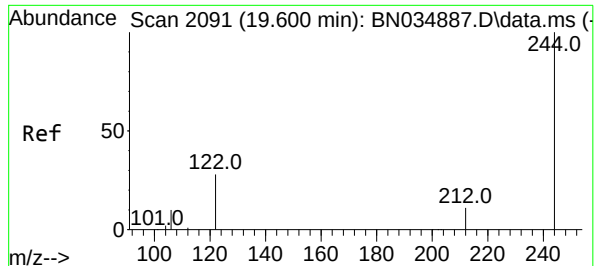
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 17.5 14.1 21.1





#31

Terphenyl-d14

Concen: 1.602 ng

RT: 19.598 min Scan# 2091

Delta R.T. -0.002 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

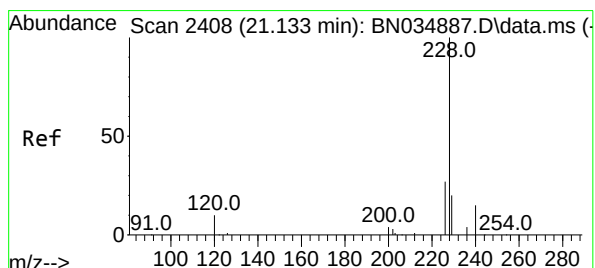
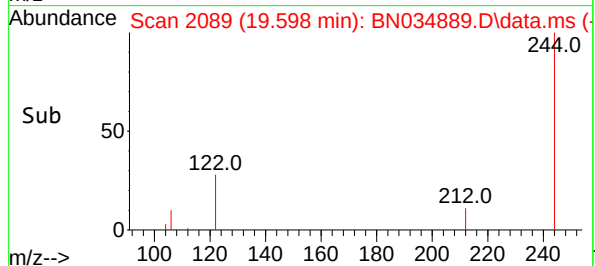
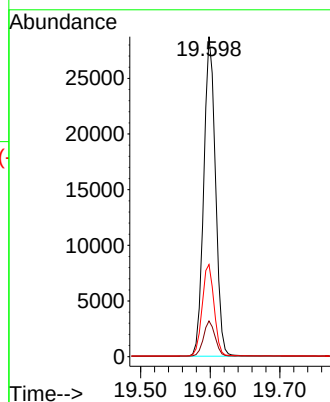
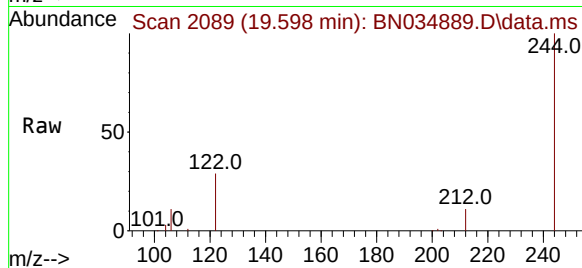
Tgt Ion:244 Resp: 33522

Ion Ratio Lower Upper

244 100

212 11.1 9.4 14.0

122 28.8 23.0 34.4



#32

Benzo(a)anthracene

Concen: 1.707 ng

RT: 21.131 min Scan# 2406

Delta R.T. -0.002 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

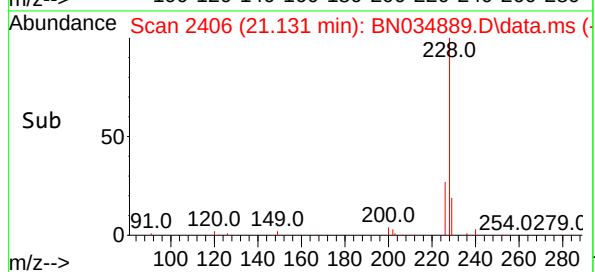
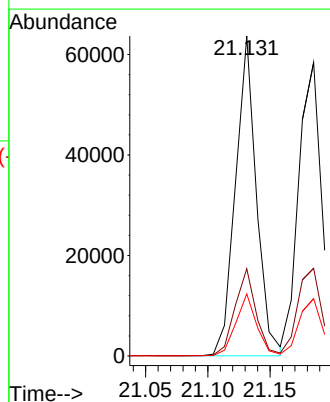
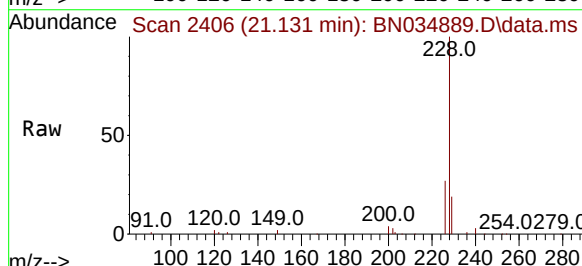
Tgt Ion:228 Resp: 74313

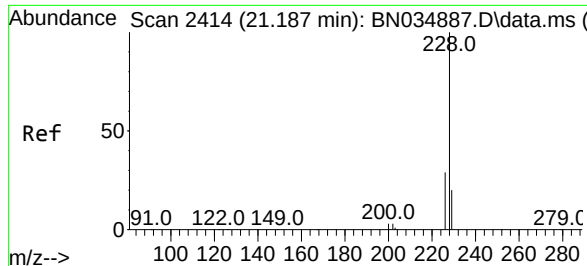
Ion Ratio Lower Upper

228 100

226 27.3 22.2 33.2

229 19.4 16.0 24.0





#33

Chrysene

Concen: 1.657 ng

RT: 21.185 min Scan# 2414

Delta R.T. -0.002 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

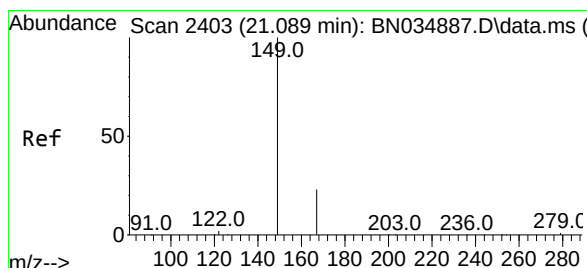
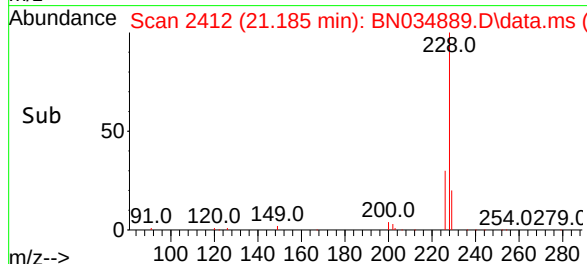
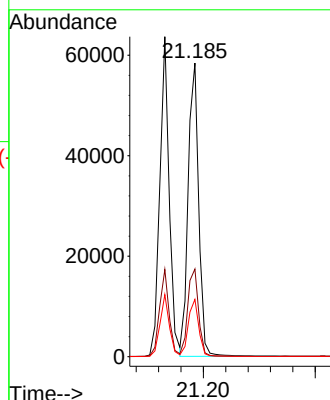
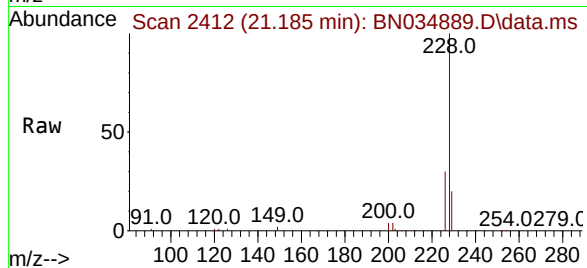
Tgt Ion:228 Resp: 76360

Ion Ratio Lower Upper

228 100

226 29.9 23.7 35.5

229 19.5 16.3 24.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.498 ng

RT: 21.086 min Scan# 2401

Delta R.T. -0.003 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

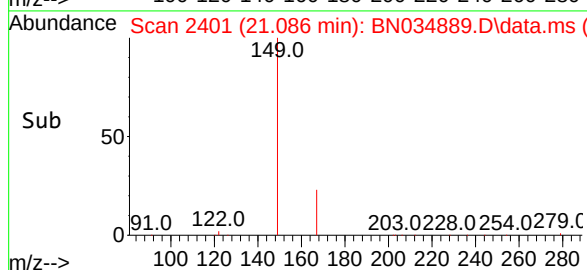
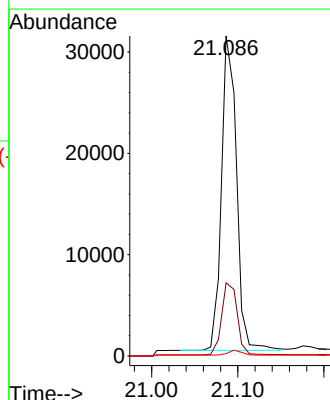
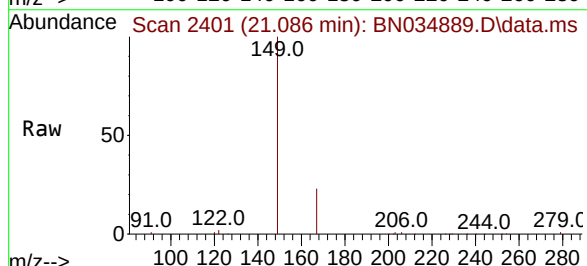
Tgt Ion:149 Resp: 37441

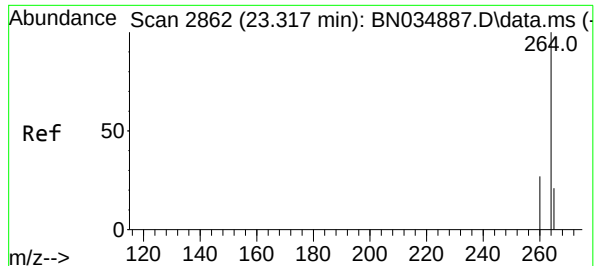
Ion Ratio Lower Upper

149 100

167 23.7 18.1 27.1

279 1.4 1.2 1.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.315 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

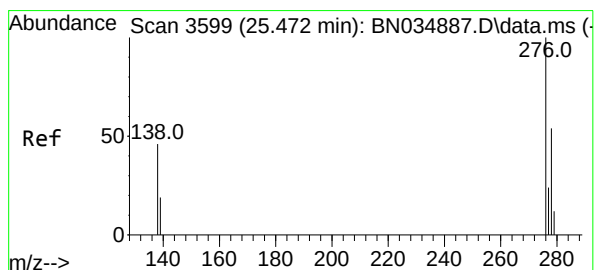
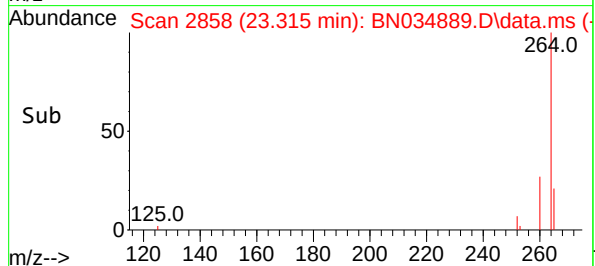
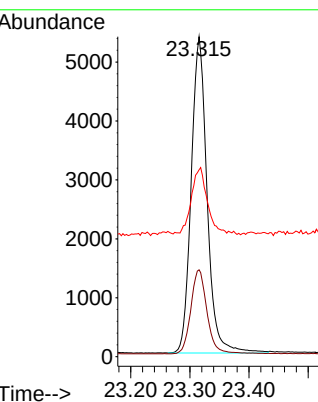
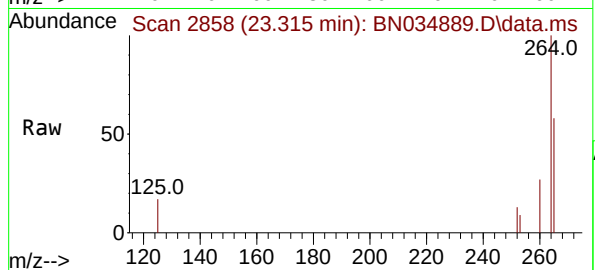
Tgt Ion:264 Resp: 10016

Ion Ratio Lower Upper

264 100

260 27.2 22.2 33.2

265 58.4 60.9 91.3#



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.677 ng

RT: 25.470 min Scan# 3595

Delta R.T. -0.002 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

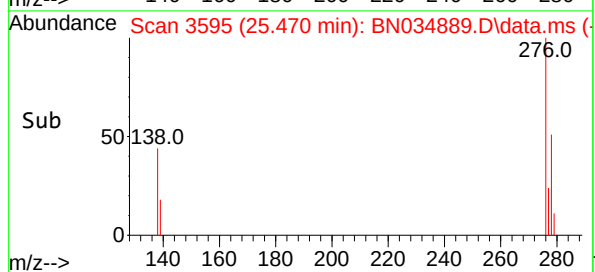
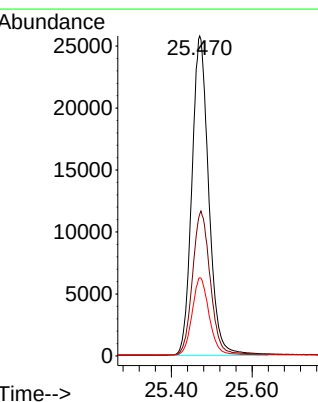
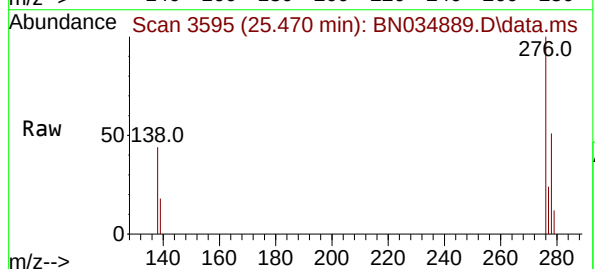
Tgt Ion:276 Resp: 74827

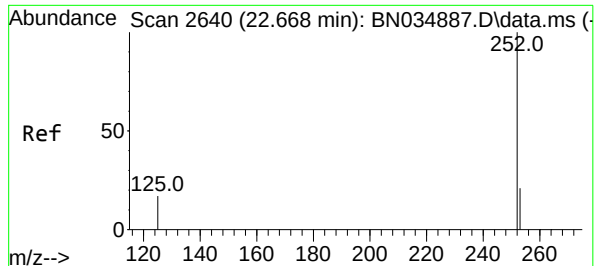
Ion Ratio Lower Upper

276 100

138 47.3 38.4 57.6

277 24.5 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 1.650 ng

RT: 22.669 min Scan# 2637

Delta R.T. 0.001 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

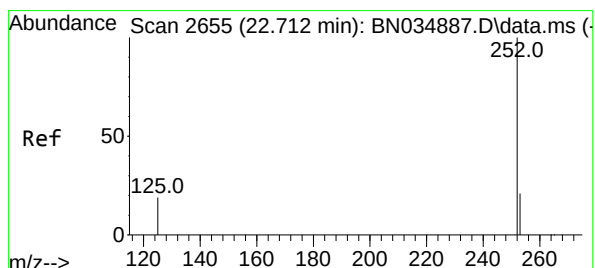
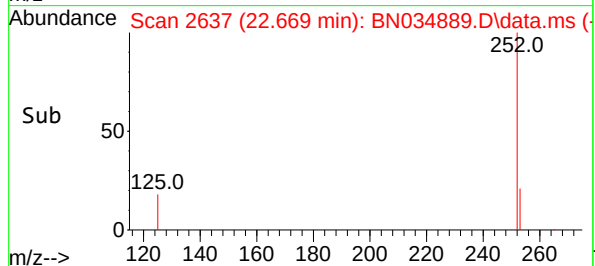
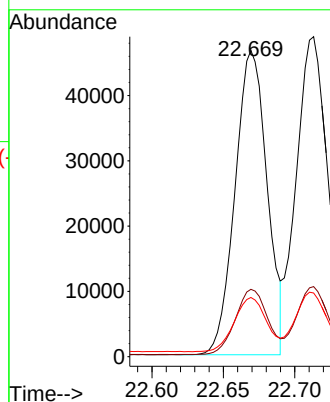
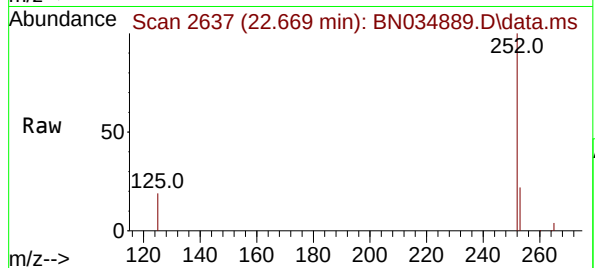
Tgt Ion:252 Resp: 72667

Ion Ratio Lower Upper

252 100

253 22.0 19.4 29.2

125 19.3 21.4 32.2#



#38

Benzo(k)fluoranthene

Concen: 1.685 ng

RT: 22.713 min Scan# 2652

Delta R.T. 0.001 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

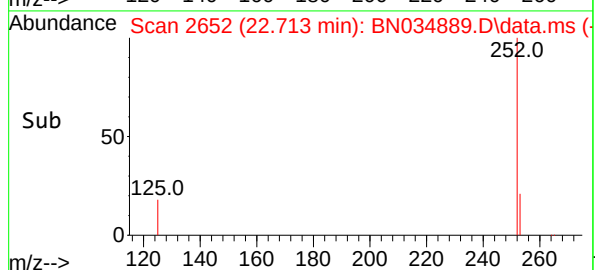
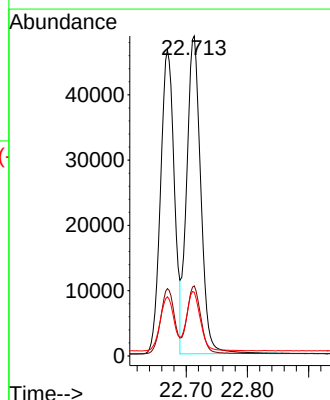
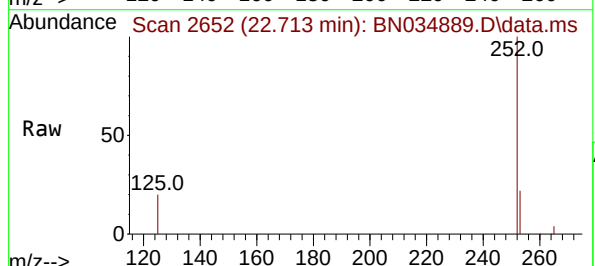
Tgt Ion:252 Resp: 77370

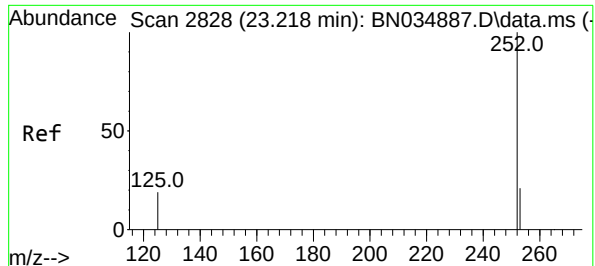
Ion Ratio Lower Upper

252 100

253 21.9 19.8 29.8

125 19.9 22.6 33.8#





#39

Benzo(a)pyrene

Concen: 1.684 ng

RT: 23.219 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

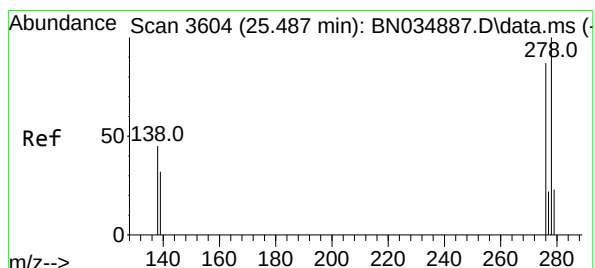
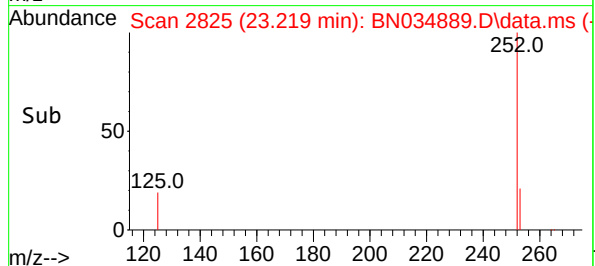
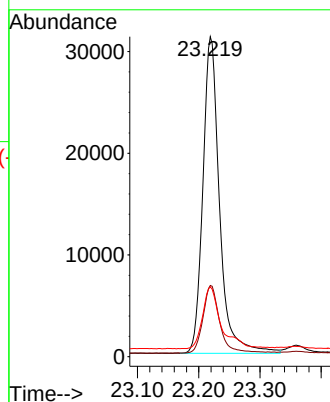
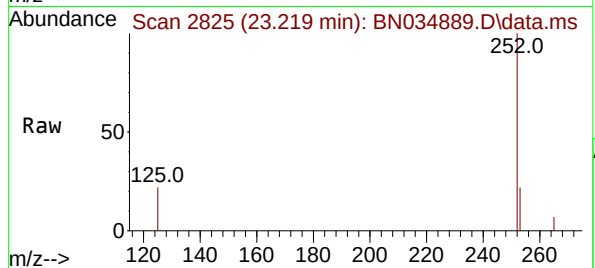
Tgt Ion:252 Resp: 58843

Ion Ratio Lower Upper

252 100

253 22.3 21.4 32.2

125 21.8 27.8 41.6#



#40

Dibenzo(a,h)anthracene

Concen: 1.679 ng

RT: 25.485 min Scan# 3600

Delta R.T. -0.002 min

Lab File: BN034889.D

Acq: 07 Nov 2024 12:36

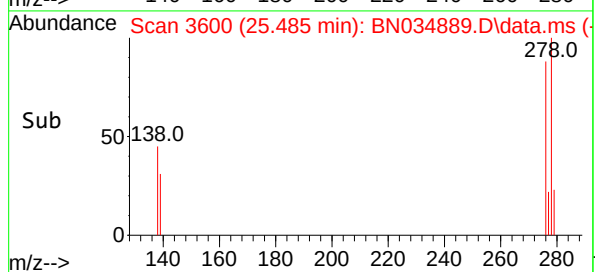
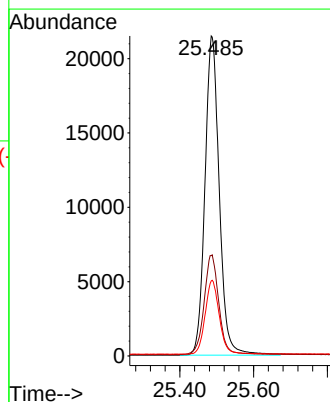
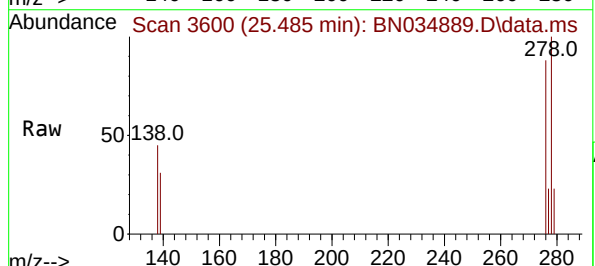
Tgt Ion:278 Resp: 57968

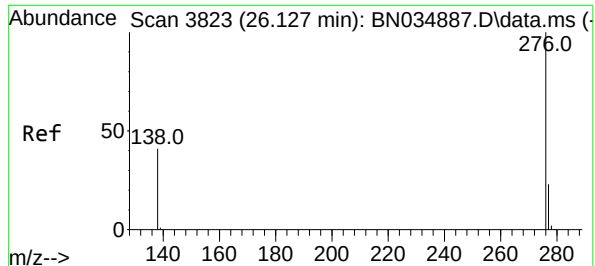
Ion Ratio Lower Upper

278 100

139 31.4 27.2 40.8

279 23.5 21.4 32.0





#41

Benzo(g,h,i)perylene

Concen: 1.649 ng

RT: 26.125 min Scan# 3823

Delta R.T. -0.002 min

Lab File: BN034889.D

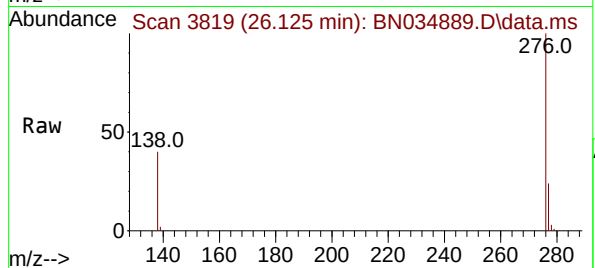
Acq: 07 Nov 2024 12:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



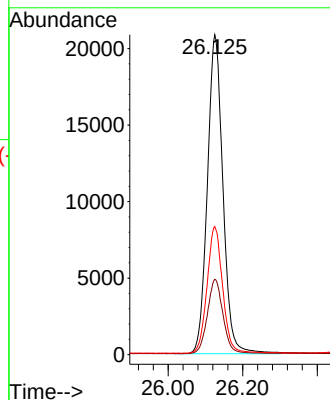
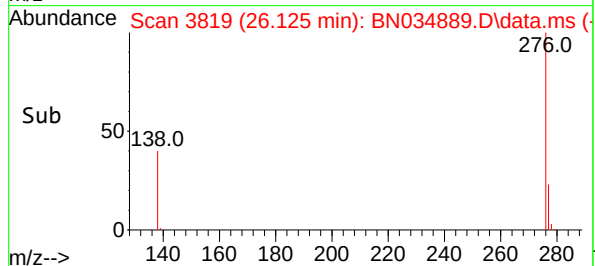
Tgt Ion:276 Resp: 60450

Ion Ratio Lower Upper

276 100

277 23.5 20.2 30.2

138 40.1 33.9 50.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
 Data File : BN034890.D
 Acq On : 07 Nov 2024 13:13
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Nov 07 14:42:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 07 14:34:20 2024
 Response via : Initial Calibration

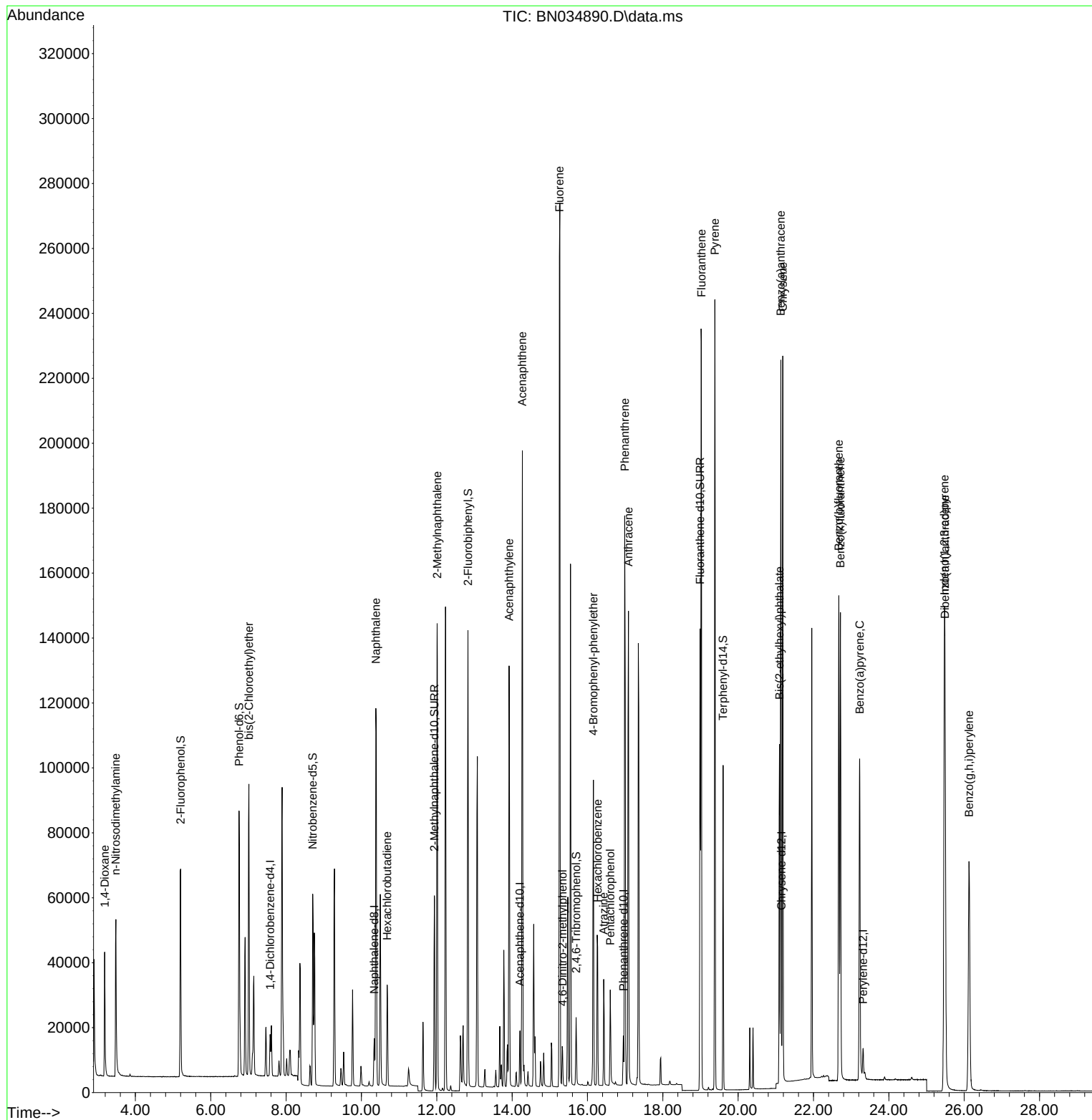
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	5939	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	18004	0.400	ng	0.00
13) Acenaphthene-d10	14.208	164	8817	0.400	ng	0.00
19) Phenanthrene-d10	16.952	188	17873	0.400	ng	# 0.00
29) Chrysene-d12	21.149	240	12985	0.400	ng	0.00
35) Perylene-d12	23.315	264	11226	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.199	112	51403	3.106	ng	0.00
5) Phenol-d6	6.752	99	71034	3.233	ng	0.00
8) Nitrobenzene-d5	8.707	82	45127	3.216	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	78949	3.217	ng	0.00
14) 2,4,6-Tribromophenol	15.698	330	10028	3.157	ng	0.00
15) 2-Fluorobiphenyl	12.829	172	114296	3.069	ng	0.00
27) Fluoranthene-d10	18.990	212	135387	3.359	ng	0.00
31) Terphenyl-d14	19.598	244	74267	3.053	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.184	88	22320	2.974	ng	100
3) n-Nitrosodimethylamine	3.480	42	30560	3.018	ng	# 98
6) bis(2-Chloroethyl)ether	7.012	93	58458	3.084	ng	99
9) Naphthalene	10.383	128	156861	3.139	ng	99
10) Hexachlorobutadiene	10.682	225	24210	3.040	ng	# 98
12) 2-Methylnaphthalene	12.011	142	99535	3.255	ng	99
16) Acenaphthylene	13.919	152	141282	3.322	ng	100
17) Acenaphthene	14.272	154	95395	3.241	ng	94
18) Fluorene	15.255	166	118519	3.234	ng	99
20) 4,6-Dinitro-2-methylph...	15.341	198	7389	3.179	ng	# 21
21) 4-Bromophenyl-phenylether	16.157	248	30891	3.243	ng	# 86
22) Hexachlorobenzene	16.269	284	36085	3.146	ng	97
23) Atrazine	16.430	200	24718	3.581	ng	# 93
24) Pentachlorophenol	16.604	266	13114	3.184	ng	97
25) Phenanthrene	16.989	178	177208	3.232	ng	99
26) Anthracene	17.088	178	160060	3.386	ng	100
28) Fluoranthene	19.022	202	198087	3.433	ng	100
30) Pyrene	19.380	202	202057	3.074	ng	100
32) Benzo(a)anthracene	21.131	228	168444	3.328	ng	99
33) Chrysene	21.185	228	168829	3.151	ng	99
34) Bis(2-ethylhexyl)phtha...	21.095	149	95809	3.298	ng	98
36) Indeno(1,2,3-cd)pyrene	25.473	276	155639	3.112	ng	98
37) Benzo(b)fluoranthene	22.672	252	158475	3.210	ng	# 89
38) Benzo(k)fluoranthene	22.713	252	162724	3.162	ng	# 88
39) Benzo(a)pyrene	23.225	252	129107	3.296	ng	# 82
40) Dibenzo(a,h)anthracene	25.490	278	120965	3.126	ng	94
41) Benzo(g,h,i)perylene	26.128	276	126394	3.077	ng	95

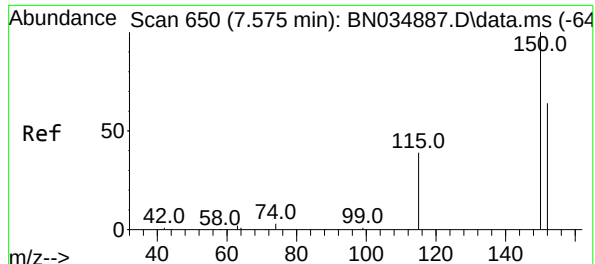
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
Data File : BN034890.D
Acq On : 07 Nov 2024 13:13
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Nov 07 14:42:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 14:34:20 2024
Response via : Initial Calibration

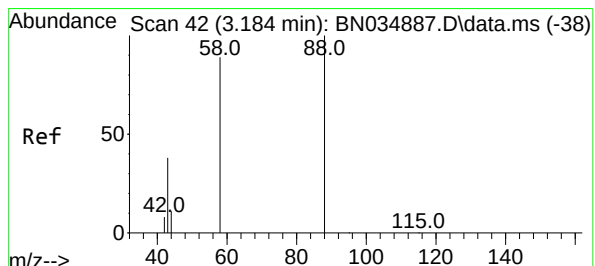
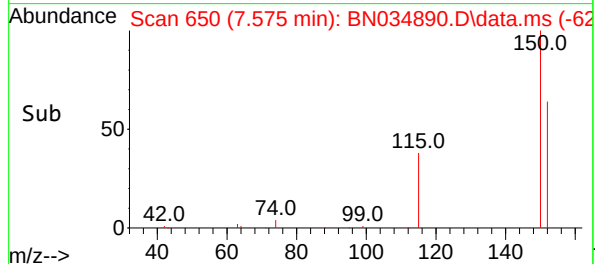
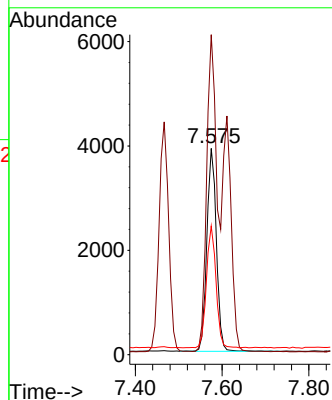
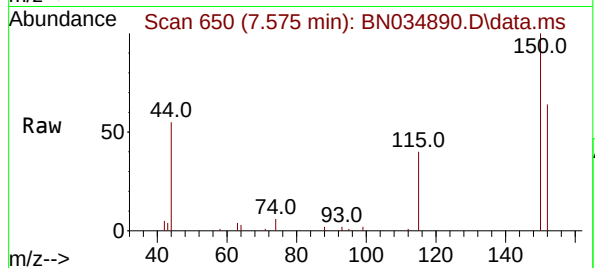




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

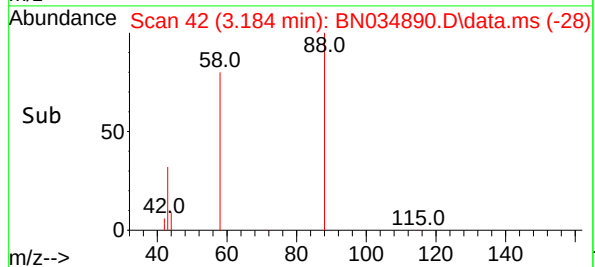
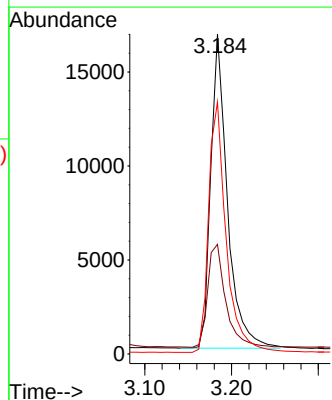
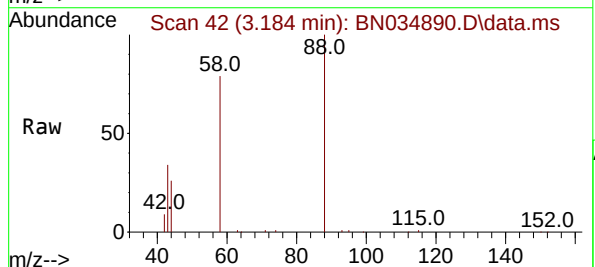
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

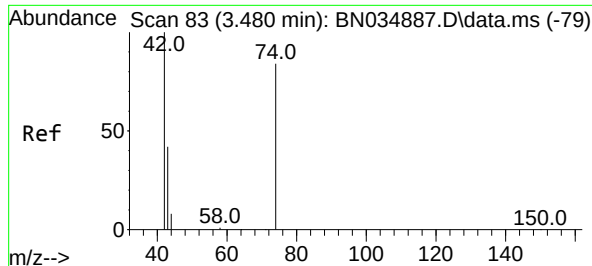
Tgt Ion:152 Resp: 5939
Ion Ratio Lower Upper
152 100
150 155.1 124.4 186.6
115 62.4 50.5 75.7



#2
1,4-Dioxane
Concen: 2.974 ng
RT: 3.184 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

Tgt Ion: 88 Resp: 22320
Ion Ratio Lower Upper
88 100
43 35.3 28.2 42.2
58 83.8 67.1 100.7

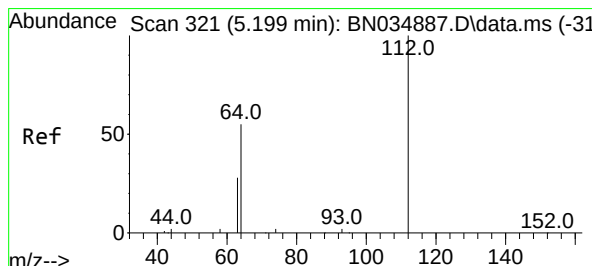
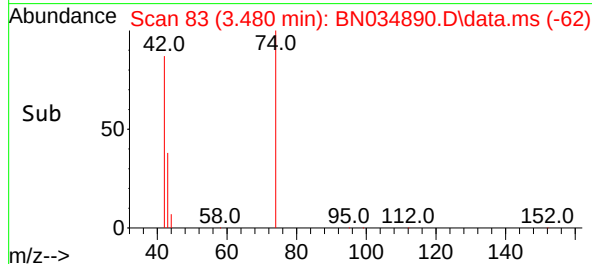
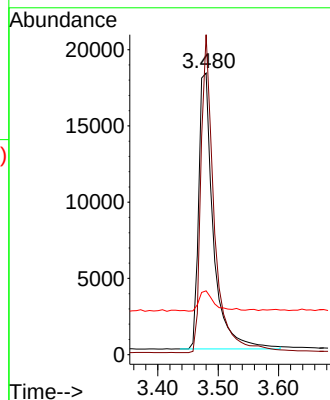
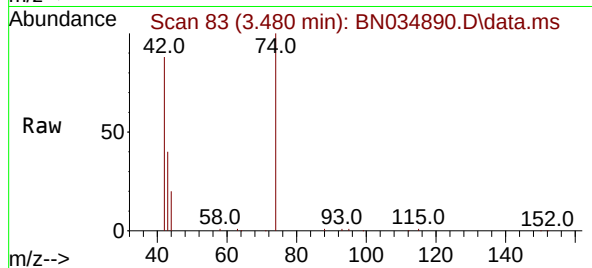




#3
n-Nitrosodimethylamine
Concen: 3.018 ng
RT: 3.480 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

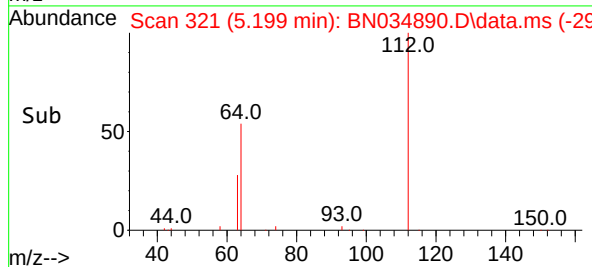
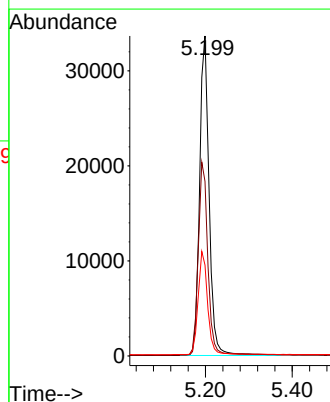
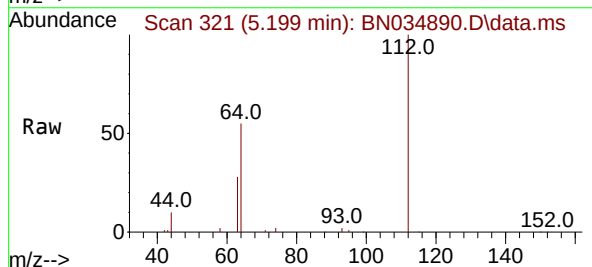
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

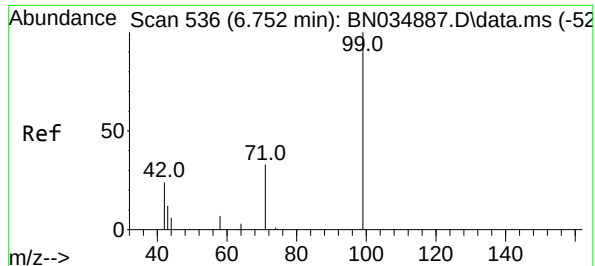
Tgt Ion: 42 Resp: 30560
Ion Ratio Lower Upper
42 100
74 105.5 83.4 125.2
44 7.7 8.6 12.8#



#4
2-Fluorophenol
Concen: 3.106 ng
RT: 5.199 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

Tgt Ion: 112 Resp: 51403
Ion Ratio Lower Upper
112 100
64 60.9 49.6 74.4
63 32.2 26.3 39.5





#5

Phenol-d6

Concen: 3.233 ng

RT: 6.752 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

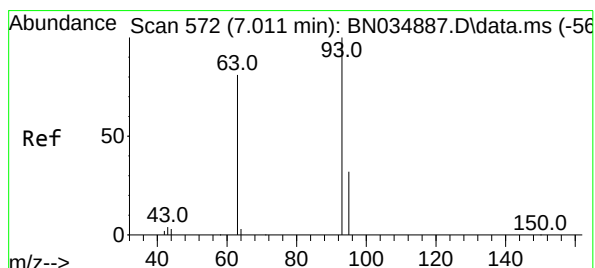
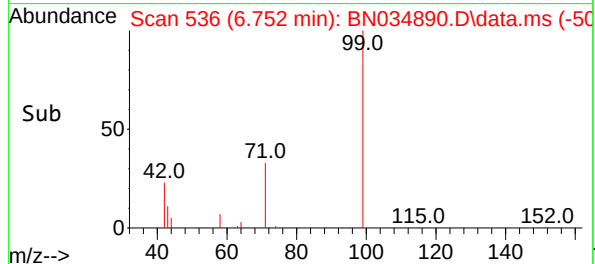
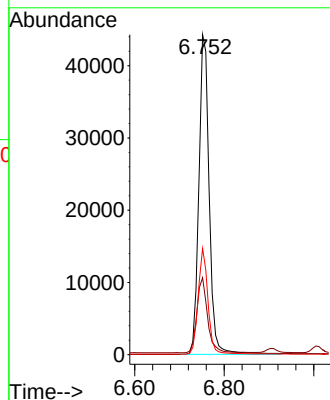
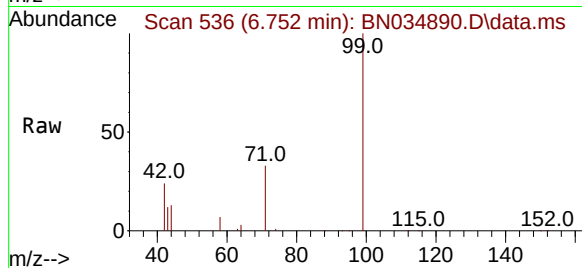
Tgt Ion: 99 Resp: 71034

Ion Ratio Lower Upper

99 100

42 24.2 20.2 30.2

71 31.6 25.4 38.0



#6

bis(2-Chloroethyl)ether

Concen: 3.084 ng

RT: 7.012 min Scan# 572

Delta R.T. 0.000 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

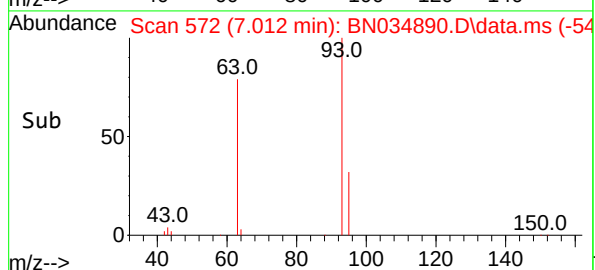
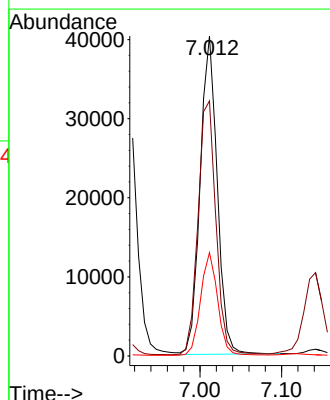
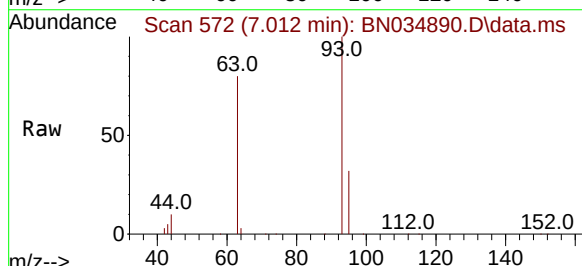
Tgt Ion: 93 Resp: 58458

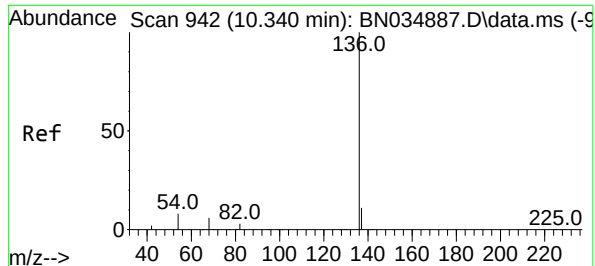
Ion Ratio Lower Upper

93 100

63 83.7 67.5 101.3

95 32.2 25.7 38.5

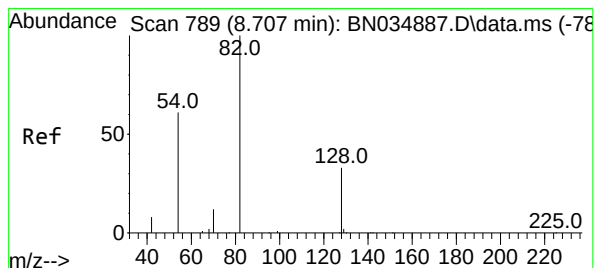
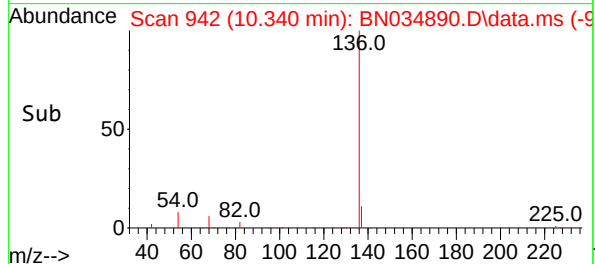
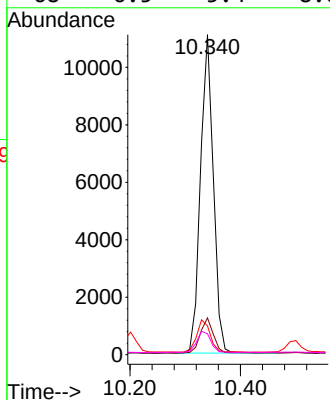
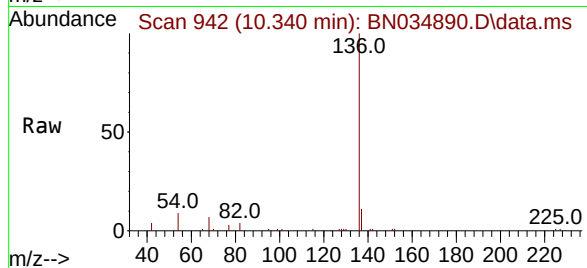




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

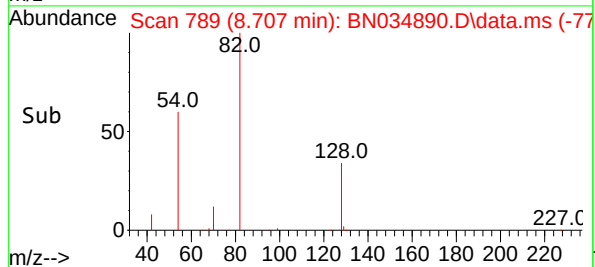
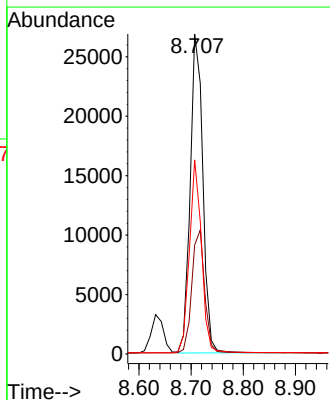
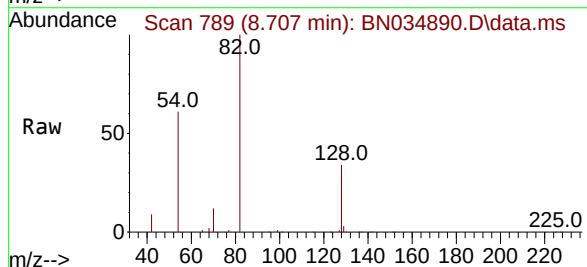
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

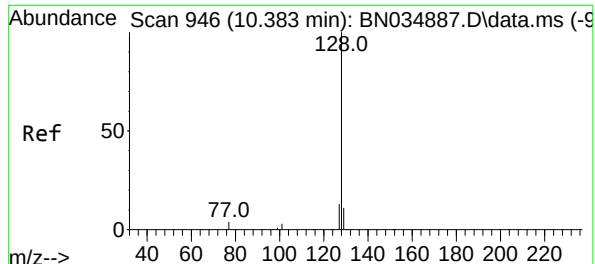
Tgt Ion:	136	Resp:	18004
Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.9	13.3
54	9.0	6.9	10.3
68	6.5	5.4	8.0



#8
Nitrobenzene-d5
Concen: 3.216 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

Tgt Ion:	82	Resp:	45127
Ion	Ratio	Lower	Upper
82	100		
128	34.0	28.1	42.1
54	60.7	49.8	74.6

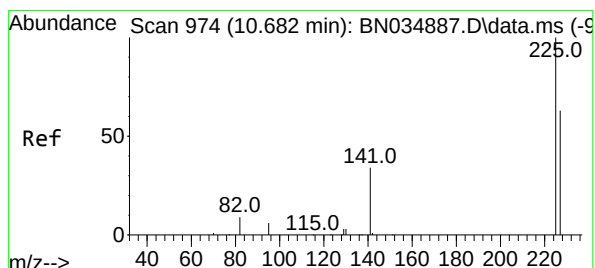
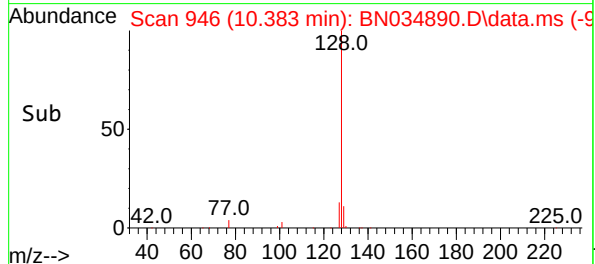
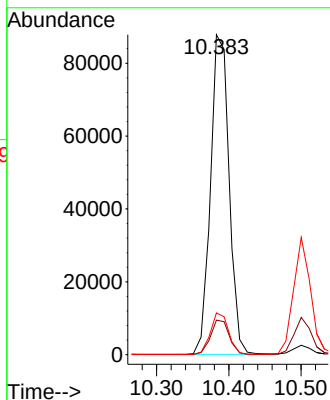
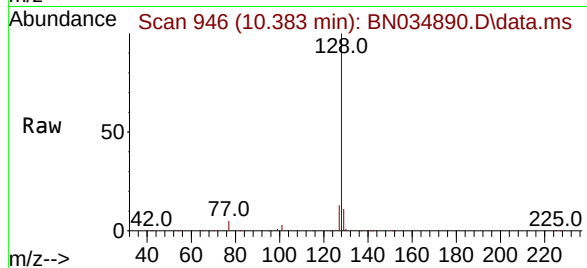




#9
Naphthalene
Concen: 3.139 ng
RT: 10.383 min Scan# 946
Delta R.T. 0.000 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

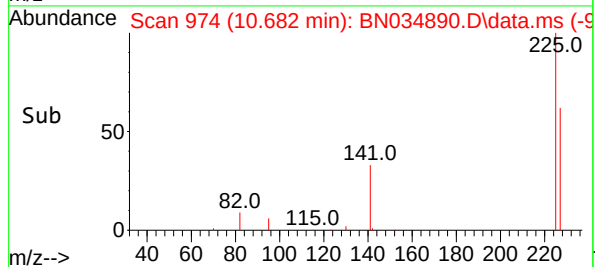
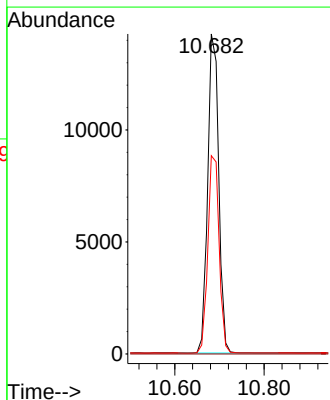
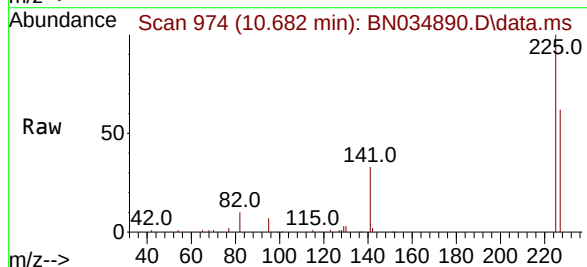
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

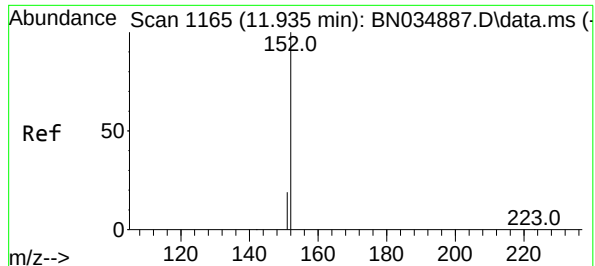
Tgt Ion:128 Resp: 156861
Ion Ratio Lower Upper
128 100
129 10.8 9.0 13.4
127 13.1 10.8 16.2



#10
Hexachlorobutadiene
Concen: 3.040 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

Tgt Ion:225 Resp: 24210
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 52.0 78.0





#11

2-Methylnaphthalene-d10

Concen: 3.217 ng

RT: 11.935 min Scan# 1165

Delta R.T. 0.000 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

Instrument :

BNA_N

ClientSampleId :

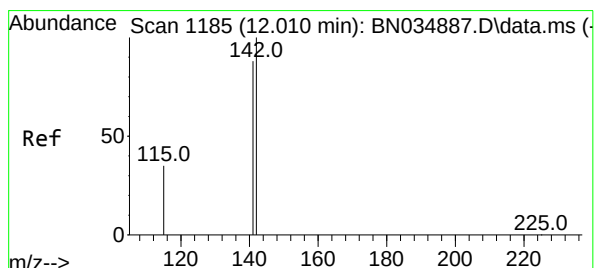
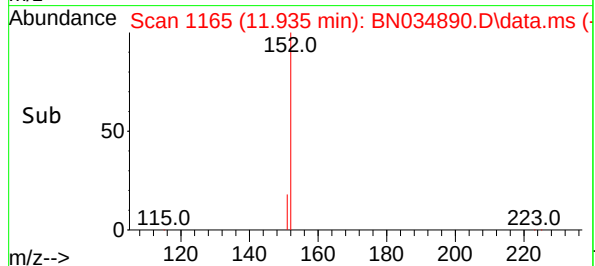
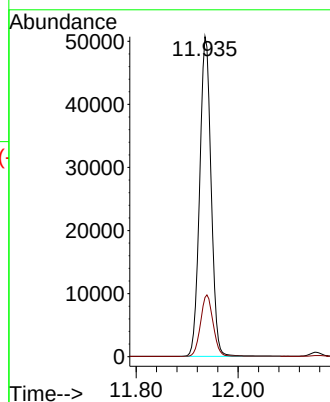
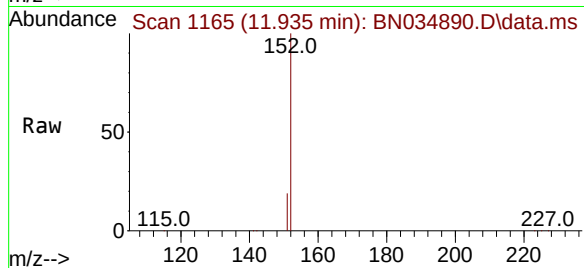
SSTDICC3.2

Tgt Ion:152 Resp: 78949

Ion Ratio Lower Upper

152 100

151 21.2 17.1 25.7



#12

2-Methylnaphthalene

Concen: 3.255 ng

RT: 12.011 min Scan# 1185

Delta R.T. 0.000 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

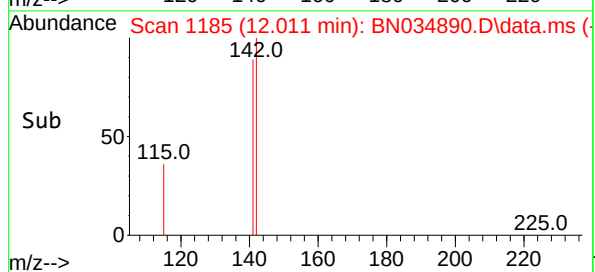
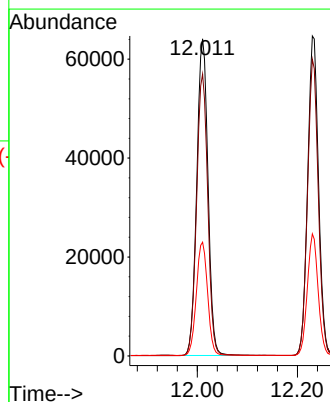
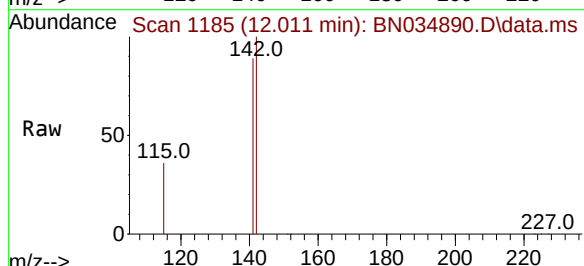
Tgt Ion:142 Resp: 99535

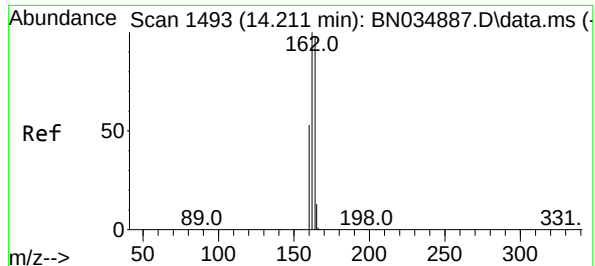
Ion Ratio Lower Upper

142 100

141 88.9 70.5 105.7

115 35.9 29.4 44.2

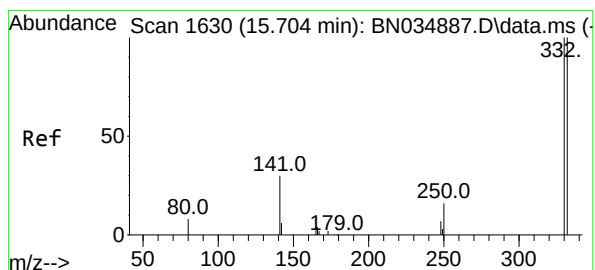
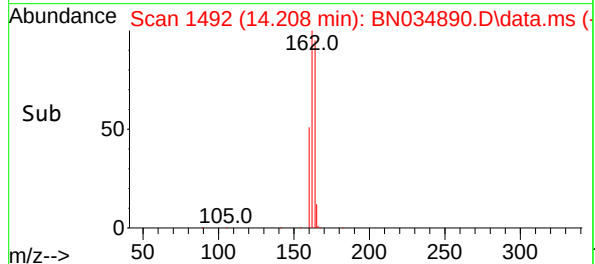
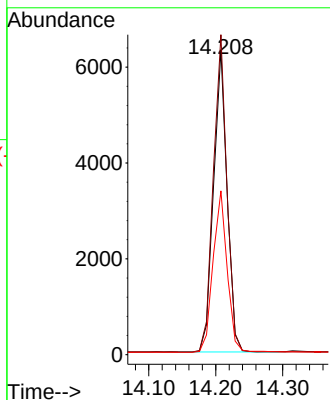
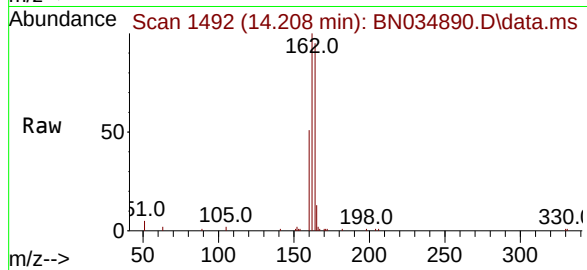




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.208 min Scan# 14
Delta R.T. -0.003 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

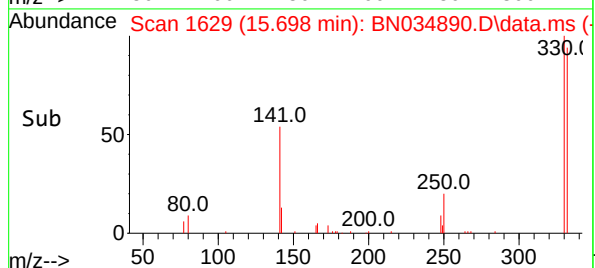
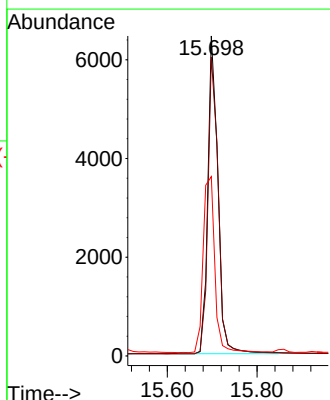
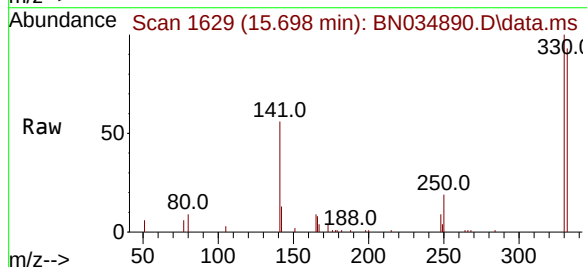
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

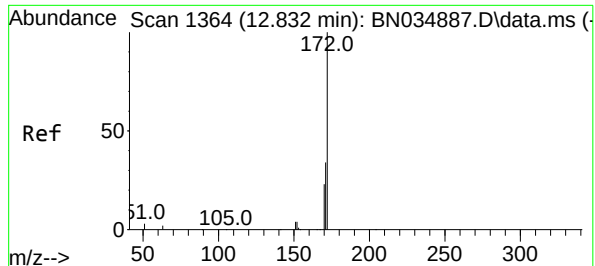
Tgt Ion:164 Resp: 8817
Ion Ratio Lower Upper
164 100
162 105.0 81.9 122.9
160 53.8 43.5 65.3



#14
2,4,6-Tribromophenol
Concen: 3.157 ng
RT: 15.698 min Scan# 1629
Delta R.T. -0.006 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

Tgt Ion:330 Resp: 10028
Ion Ratio Lower Upper
330 100
332 95.6 77.1 115.7
141 63.8 54.1 81.1

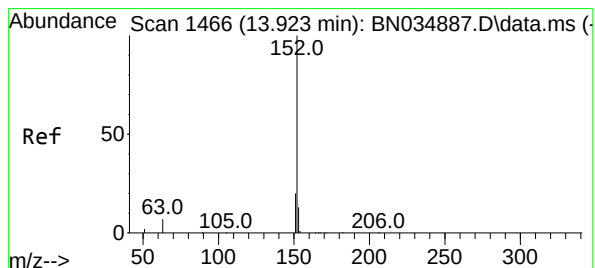
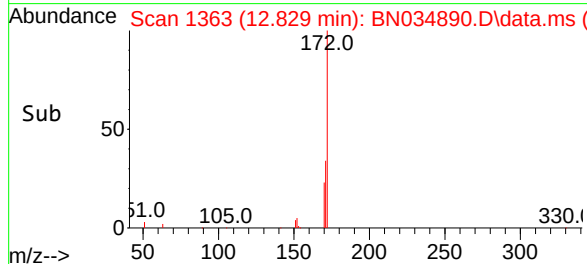
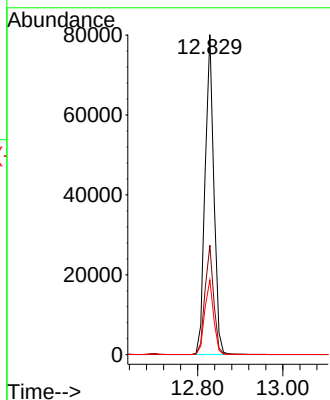
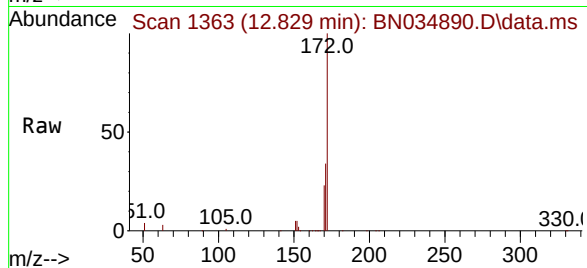




#15
2-Fluorobiphenyl
Concen: 3.069 ng
RT: 12.829 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

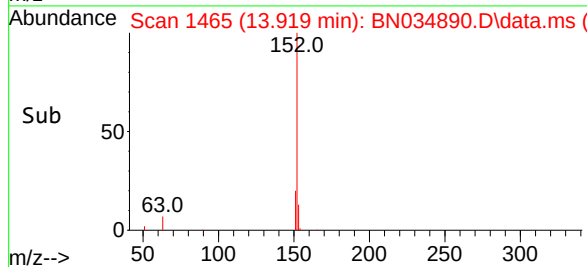
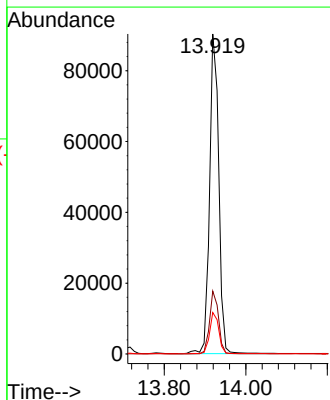
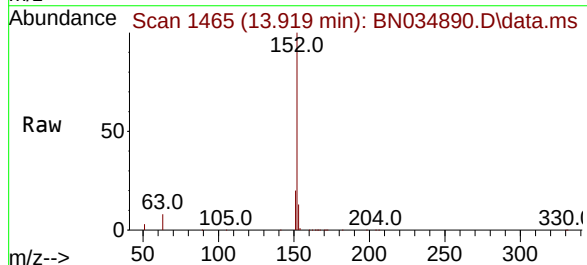
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

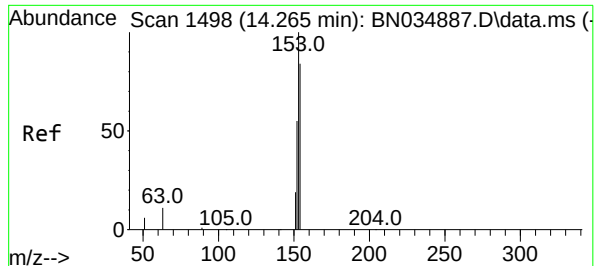
Tgt Ion:172 Resp: 114296
Ion Ratio Lower Upper
172 100
171 34.2 27.9 41.9
170 23.3 19.0 28.4



#16
Acenaphthylene
Concen: 3.322 ng
RT: 13.919 min Scan# 1465
Delta R.T. -0.004 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

Tgt Ion:152 Resp: 141282
Ion Ratio Lower Upper
152 100
151 19.0 15.2 22.8
153 12.9 10.4 15.6

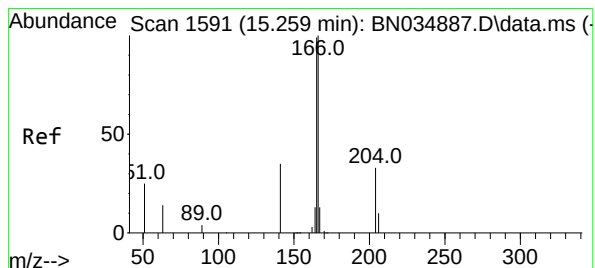
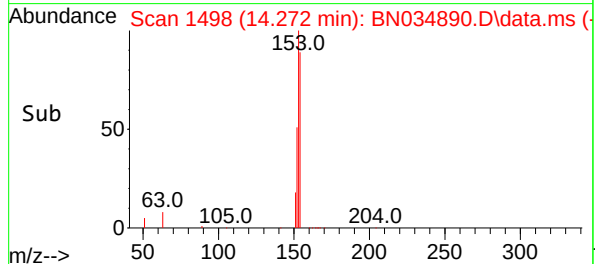
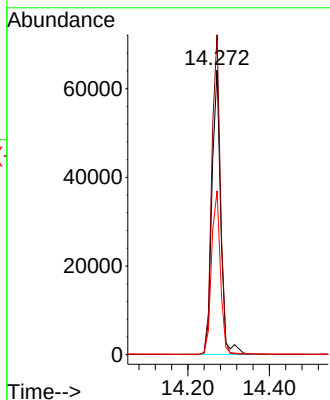
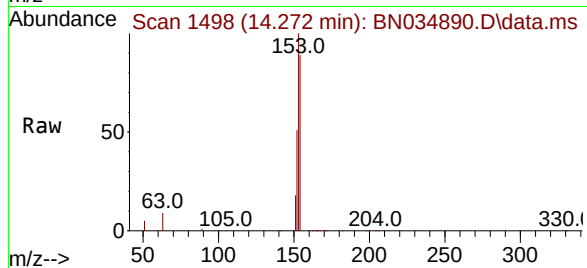




#17
Acenaphthene
Concen: 3.241 ng
RT: 14.272 min Scan# 1498
Delta R.T. 0.007 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

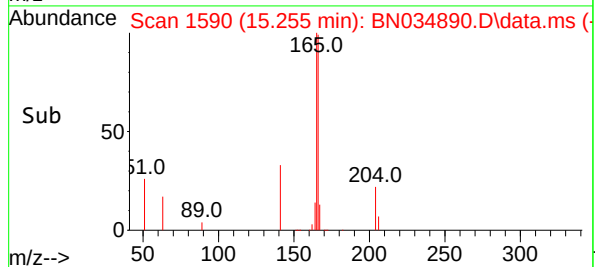
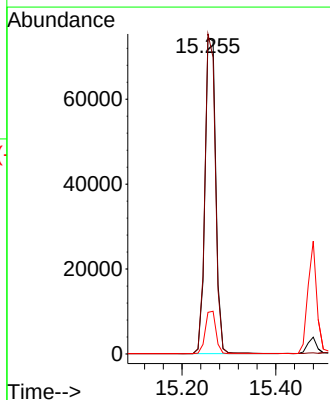
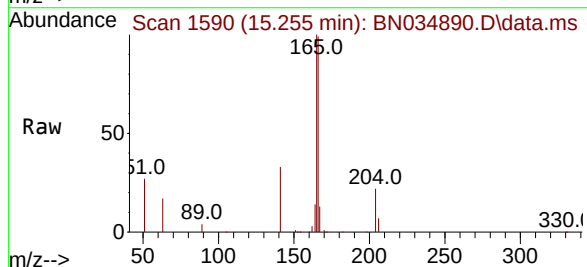
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

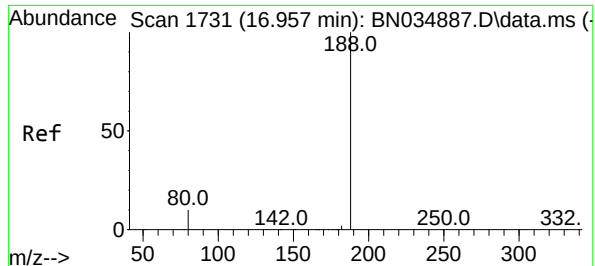
Tgt Ion:154 Resp: 95395
Ion Ratio Lower Upper
154 100
153 110.0 92.2 138.2
152 58.3 51.1 76.7



#18
Fluorene
Concen: 3.234 ng
RT: 15.255 min Scan# 1590
Delta R.T. -0.004 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

Tgt Ion:166 Resp: 118519
Ion Ratio Lower Upper
166 100
165 98.5 79.5 119.3
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.952 min Scan# 1731

Delta R.T. -0.005 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

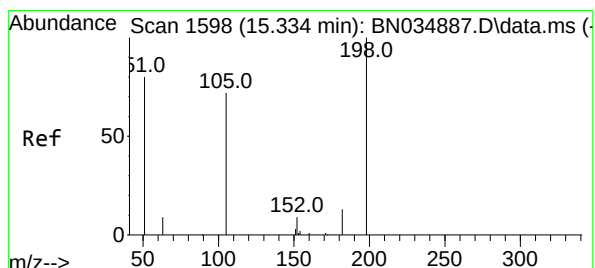
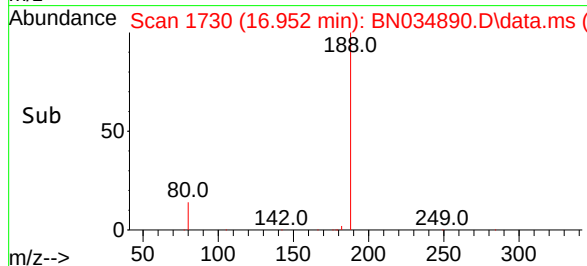
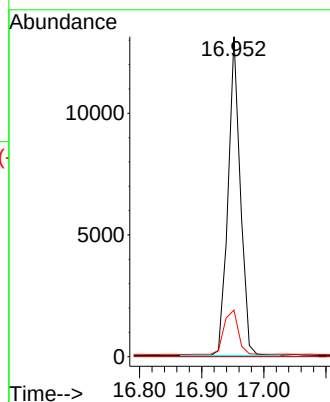
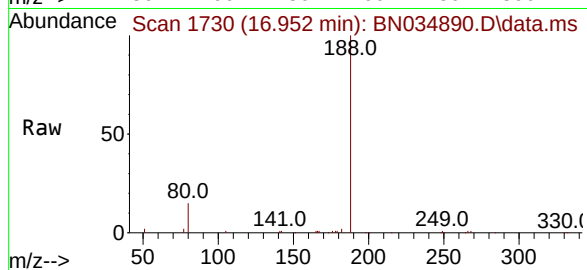
Tgt Ion:188 Resp: 17873

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.6 8.6 12.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 3.179 ng

RT: 15.341 min Scan# 1598

Delta R.T. 0.007 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

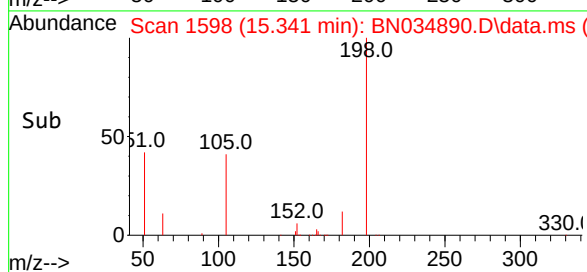
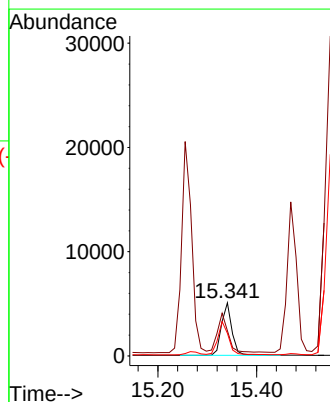
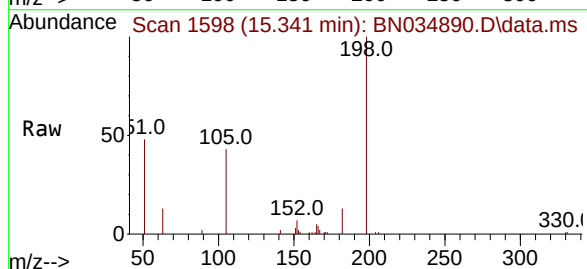
Tgt Ion:198 Resp: 7389

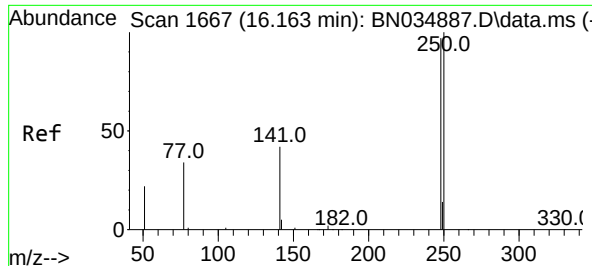
Ion Ratio Lower Upper

198 100

51 47.6 141.8 212.8#

105 42.7 75.6 113.4#





#21

4-Bromophenyl-phenylether

Concen: 3.243 ng

RT: 16.157 min Scan# 1666

Delta R.T. -0.005 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

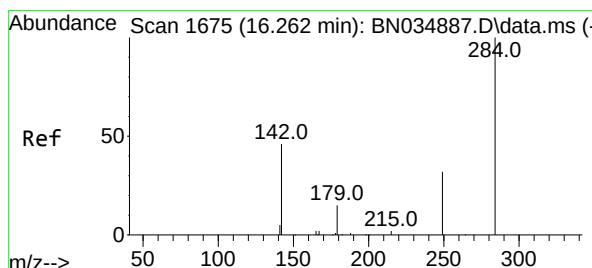
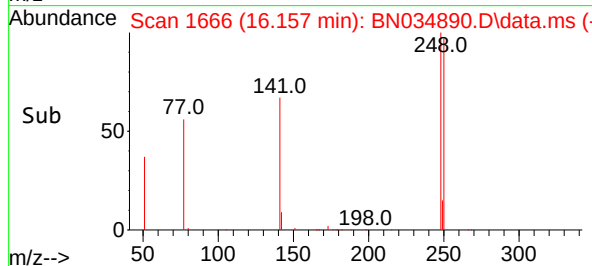
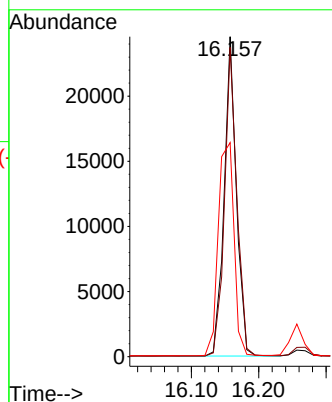
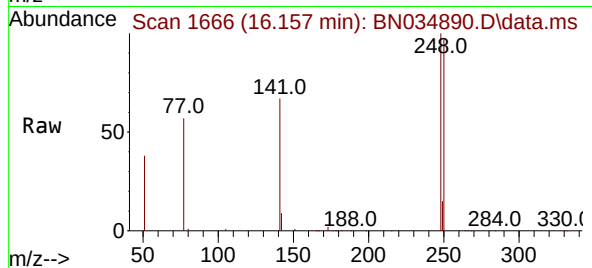
Tgt Ion:248 Resp: 30891

Ion Ratio Lower Upper

248 100

250 96.6 82.2 123.4

141 66.9 36.2 54.2#



#22

Hexachlorobenzene

Concen: 3.146 ng

RT: 16.269 min Scan# 1675

Delta R.T. 0.007 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

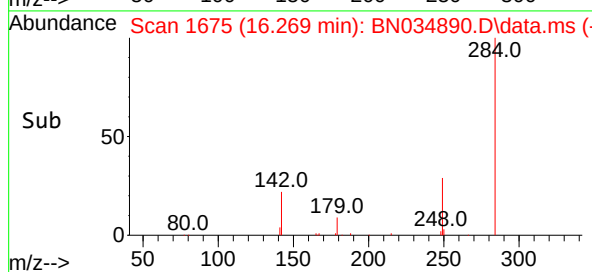
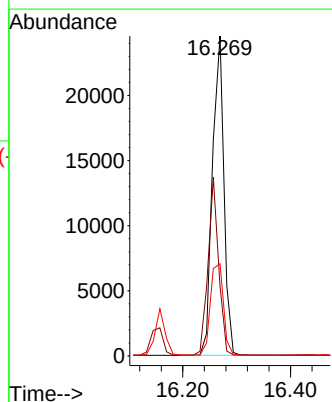
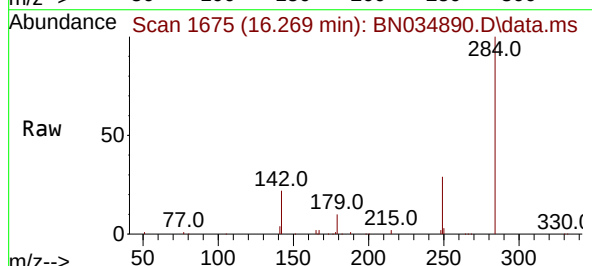
Tgt Ion:284 Resp: 36085

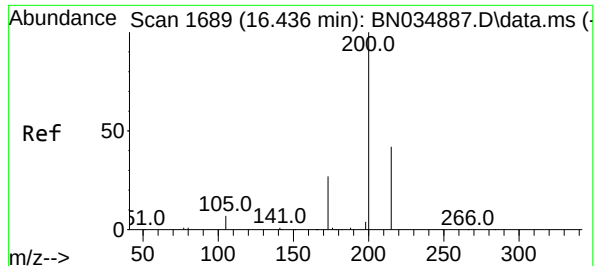
Ion Ratio Lower Upper

284 100

142 51.3 43.4 65.2

249 32.7 25.8 38.6

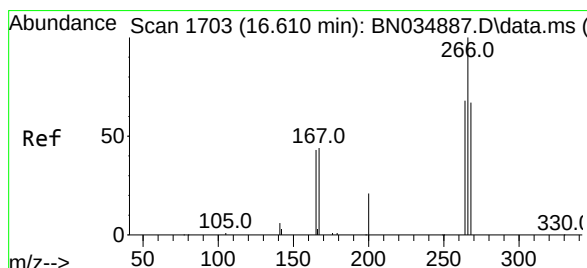
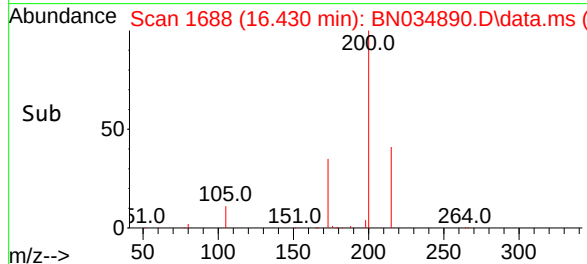
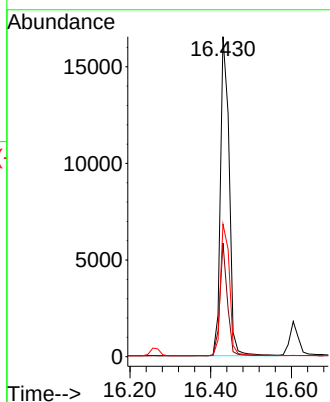
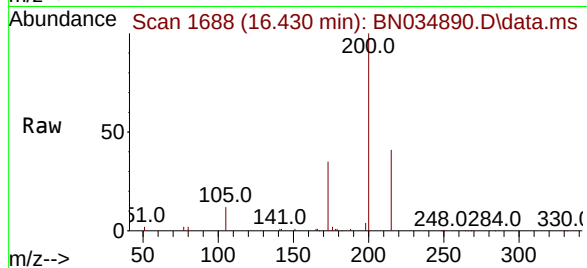




#23
Atrazine
Concen: 3.581 ng
RT: 16.430 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

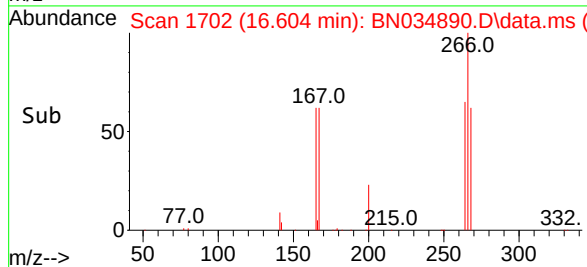
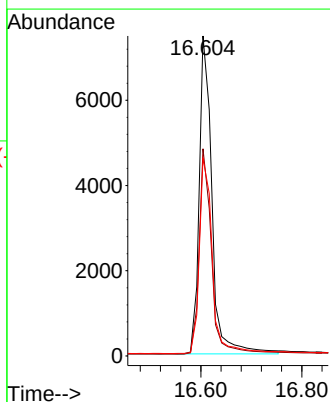
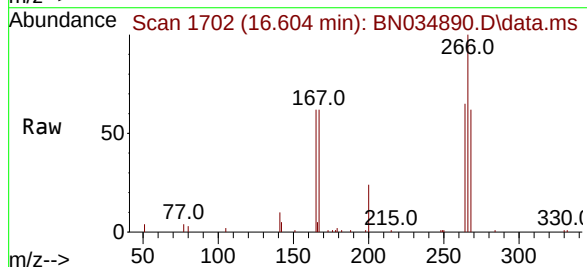
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

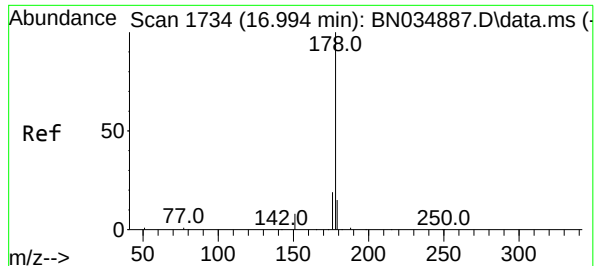
Tgt Ion:200 Resp: 24718
Ion Ratio Lower Upper
200 100
173 35.5 23.4 35.2#
215 41.4 35.4 53.0



#24
Pentachlorophenol
Concen: 3.184 ng
RT: 16.604 min Scan# 1702
Delta R.T. -0.006 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

Tgt Ion:266 Resp: 13114
Ion Ratio Lower Upper
266 100
264 62.6 51.3 76.9
268 63.2 53.0 79.6

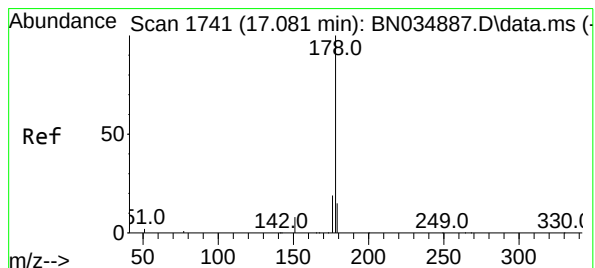
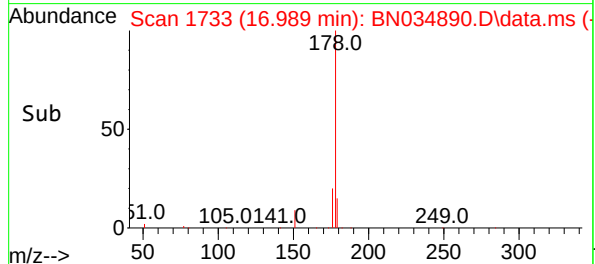
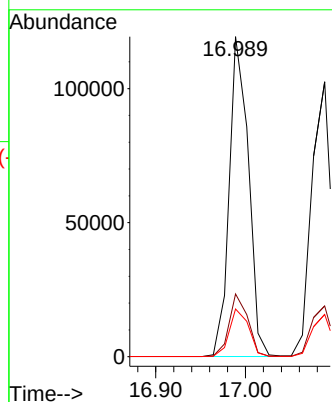
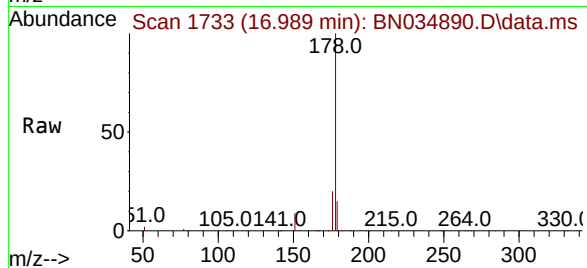




#25
Phenanthrene
Concen: 3.232 ng
RT: 16.989 min Scan# 1733
Delta R.T. -0.005 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

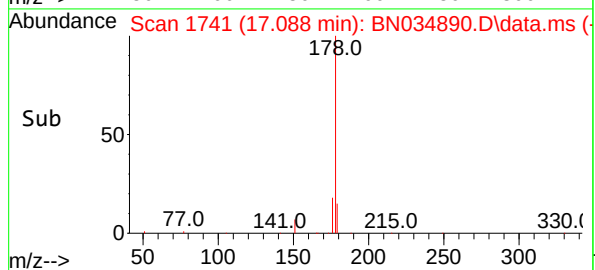
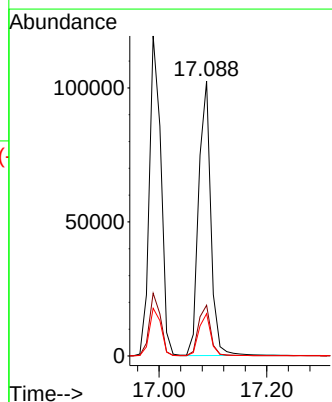
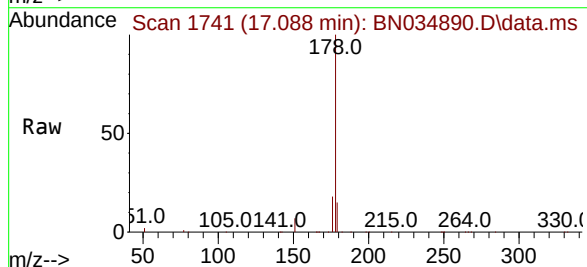
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

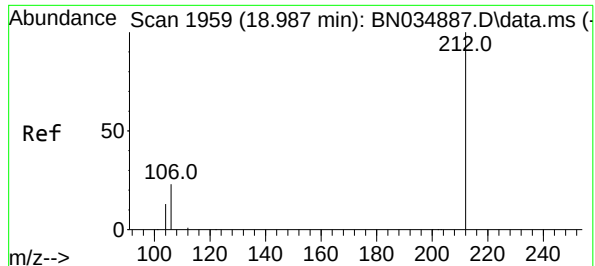
Tgt Ion:178 Resp: 177208
Ion Ratio Lower Upper
178 100
176 19.1 15.5 23.3
179 15.0 12.2 18.2



#26
Anthracene
Concen: 3.386 ng
RT: 17.088 min Scan# 1741
Delta R.T. 0.007 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

Tgt Ion:178 Resp: 160060
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.2 12.1 18.1





#27

Fluoranthene-d10

Concen: 3.359 ng

RT: 18.990 min Scan# 1958

Delta R.T. 0.002 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

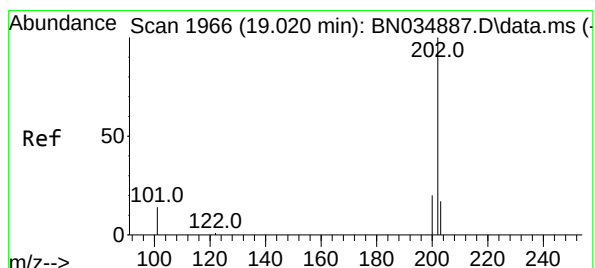
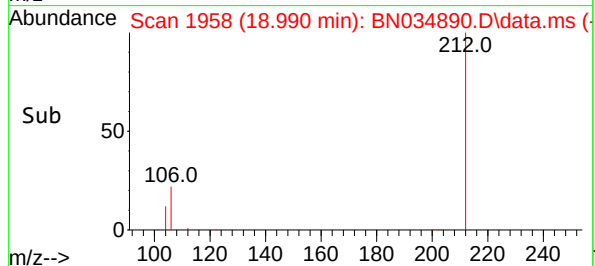
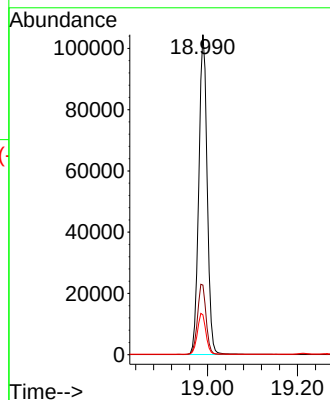
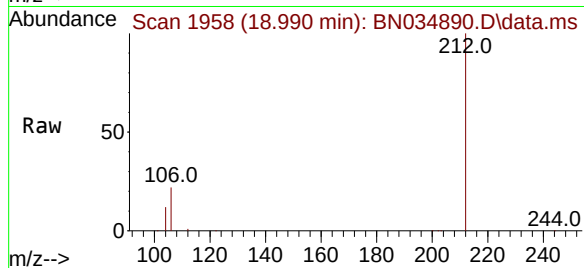
Tgt Ion:212 Resp: 135387

Ion Ratio Lower Upper

212 100

106 22.4 18.2 27.4

104 12.9 10.6 15.8



#28

Fluoranthene

Concen: 3.433 ng

RT: 19.022 min Scan# 1965

Delta R.T. 0.002 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

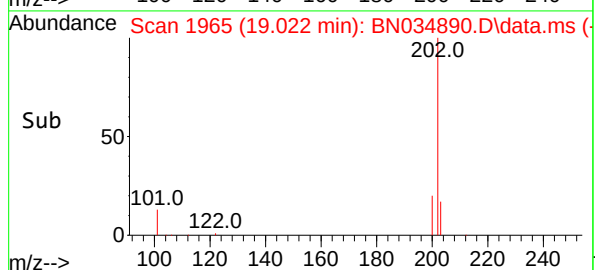
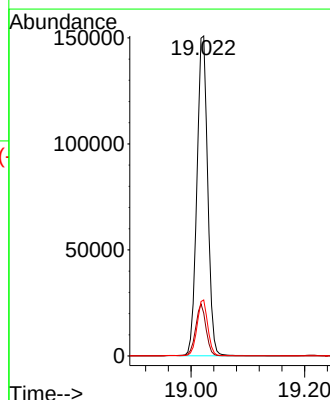
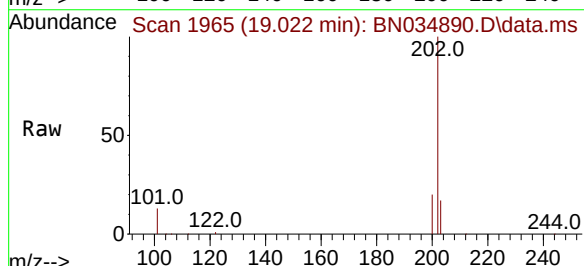
Tgt Ion:202 Resp: 198087

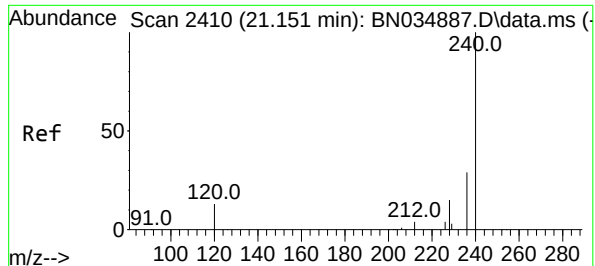
Ion Ratio Lower Upper

202 100

101 15.8 12.7 19.1

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.149 min Scan# 2410

Delta R.T. -0.002 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

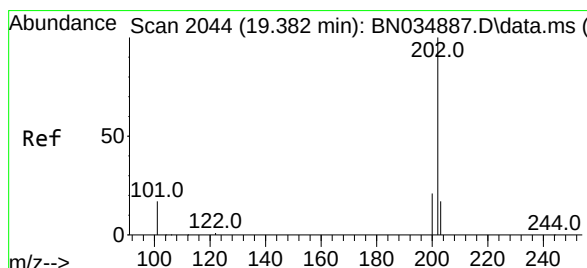
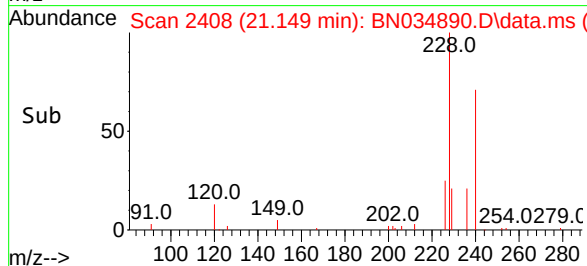
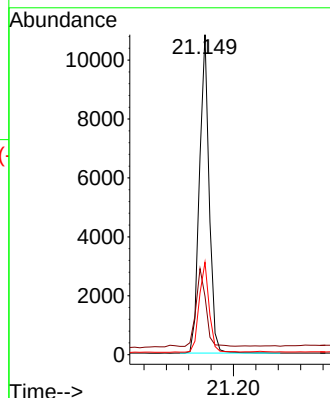
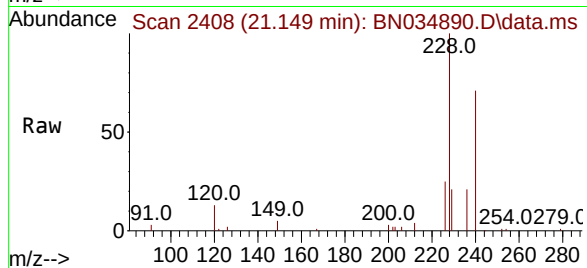
Tgt Ion:240 Resp: 12985

Ion Ratio Lower Upper

240 100

120 18.2 13.8 20.8

236 28.9 23.8 35.6



#30

Pyrene

Concen: 3.074 ng

RT: 19.380 min Scan# 2042

Delta R.T. -0.002 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

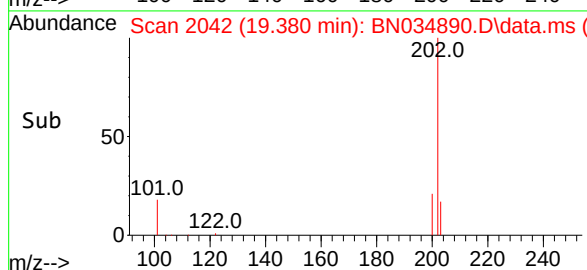
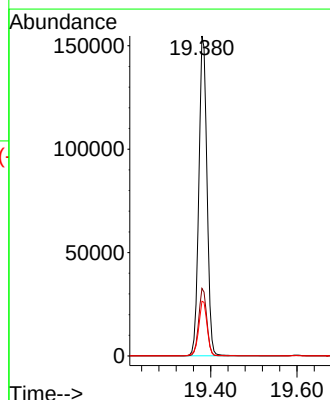
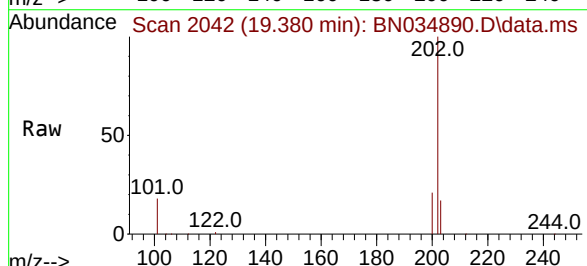
Tgt Ion:202 Resp: 202057

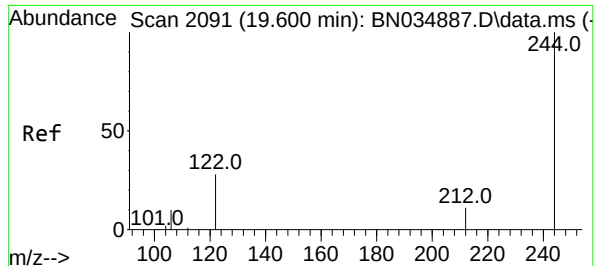
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.6 14.1 21.1

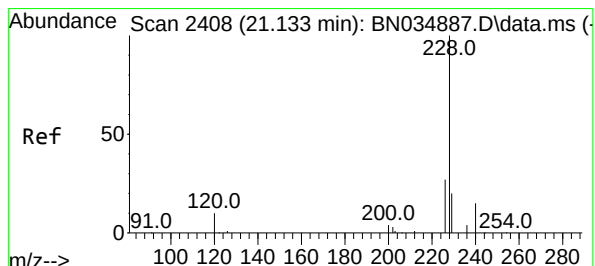
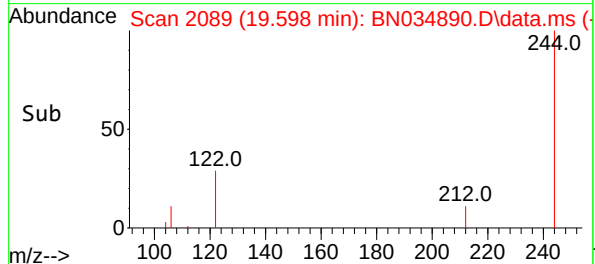
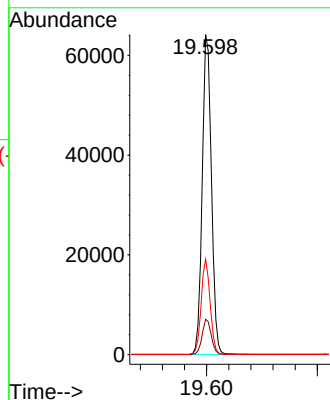
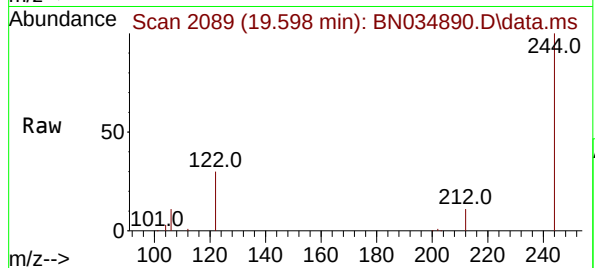




#31
Terphenyl-d14
Concen: 3.053 ng
RT: 19.598 min Scan# 2091
Delta R.T. -0.002 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

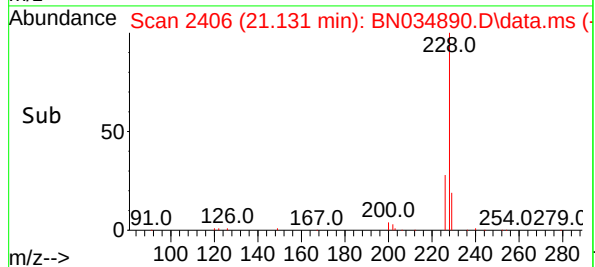
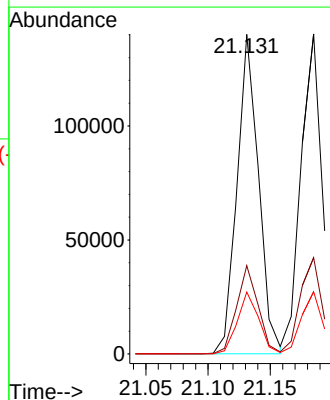
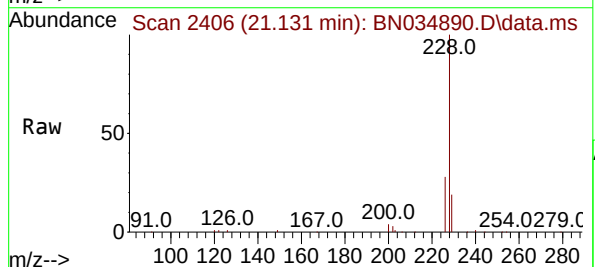
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

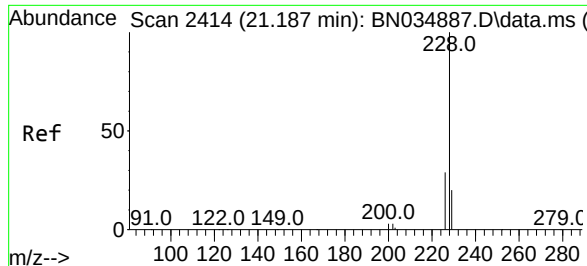
Tgt Ion:244 Resp: 74267
Ion Ratio Lower Upper
244 100
212 11.0 9.4 14.0
122 29.8 23.0 34.4



#32
Benzo(a)anthracene
Concen: 3.328 ng
RT: 21.131 min Scan# 2406
Delta R.T. -0.002 min
Lab File: BN034890.D
Acq: 07 Nov 2024 13:13

Tgt Ion:228 Resp: 168444
Ion Ratio Lower Upper
228 100
226 27.6 22.2 33.2
229 19.4 16.0 24.0





#33

Chrysene

Concen: 3.151 ng

RT: 21.185 min Scan# 2414

Delta R.T. -0.002 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

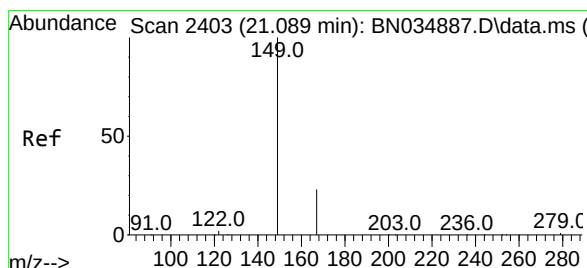
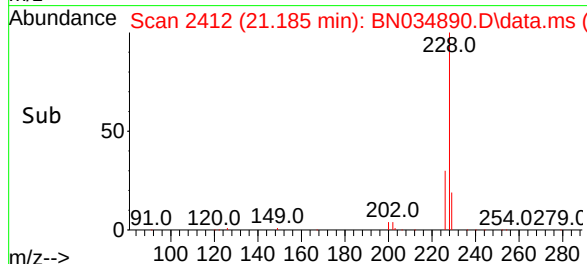
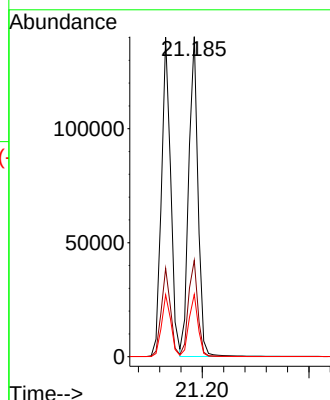
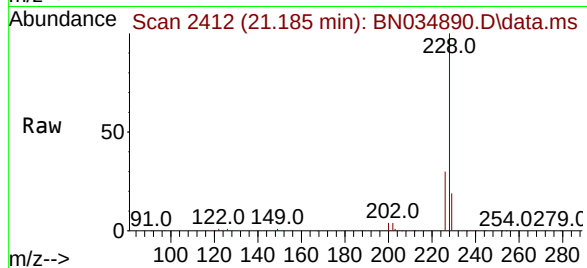
Tgt Ion:228 Resp: 168829

Ion Ratio Lower Upper

228 100

226 30.1 23.7 35.5

229 19.5 16.3 24.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.298 ng

RT: 21.095 min Scan# 2402

Delta R.T. 0.006 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

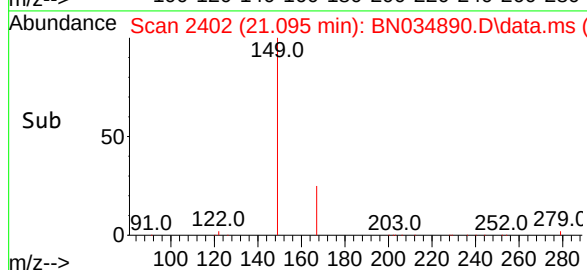
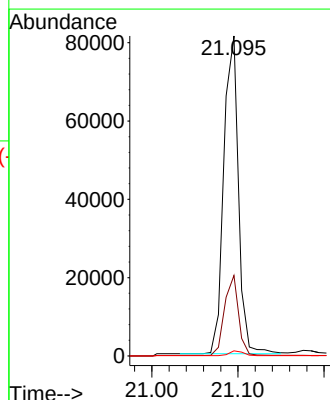
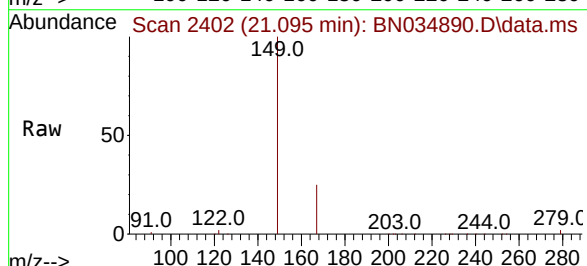
Tgt Ion:149 Resp: 95809

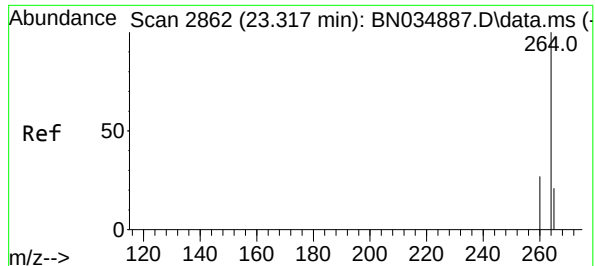
Ion Ratio Lower Upper

149 100

167 23.9 18.1 27.1

279 1.5 1.2 1.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.315 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

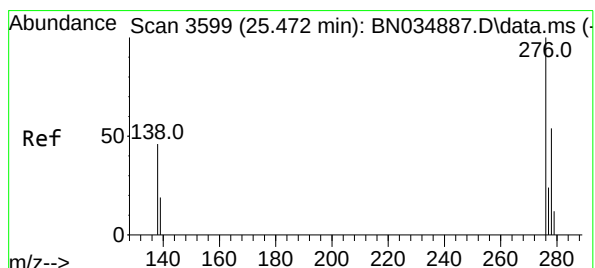
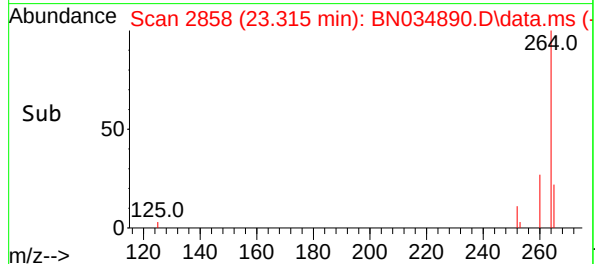
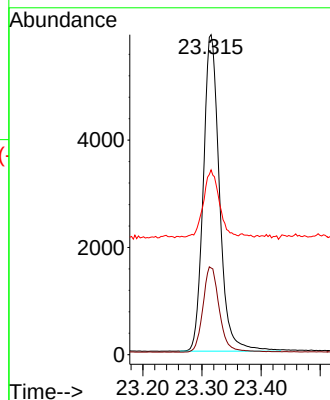
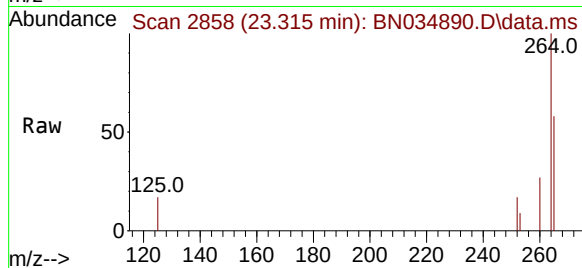
Tgt Ion:264 Resp: 11226

Ion Ratio Lower Upper

264 100

260 27.1 22.2 33.2

265 57.8 60.9 91.3#



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.112 ng

RT: 25.473 min Scan# 3596

Delta R.T. 0.001 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

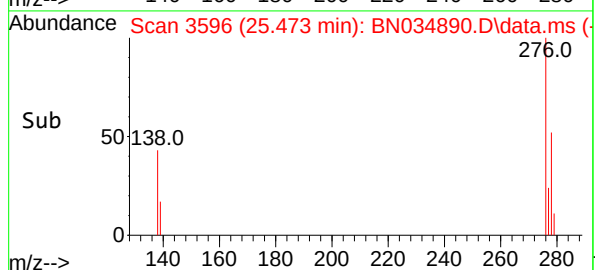
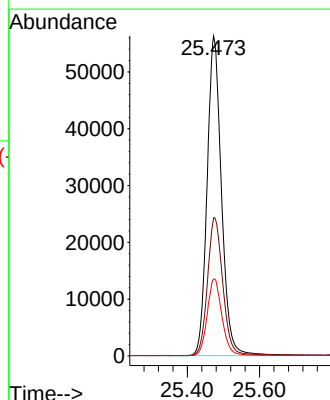
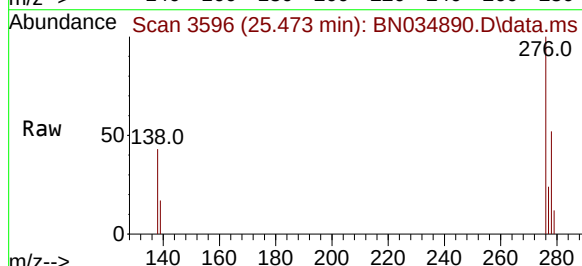
Tgt Ion:276 Resp: 155639

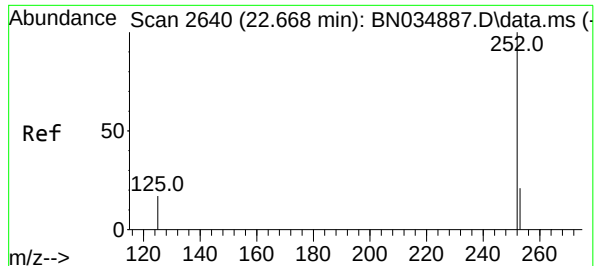
Ion Ratio Lower Upper

276 100

138 45.7 38.4 57.6

277 24.6 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 3.210 ng

RT: 22.672 min Scan# 2638

Delta R.T. 0.004 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

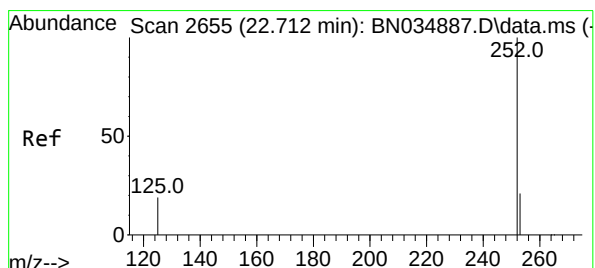
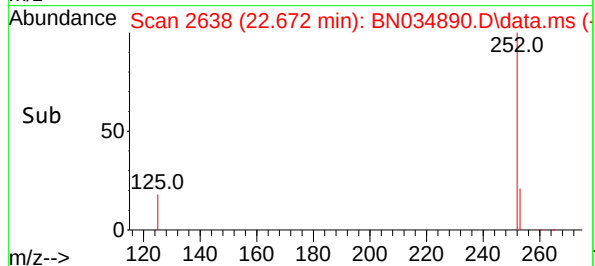
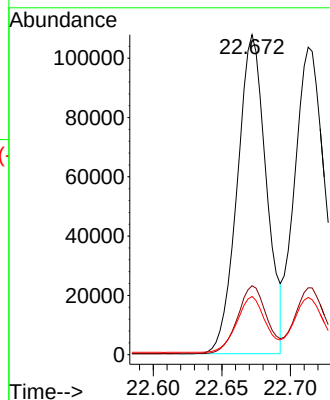
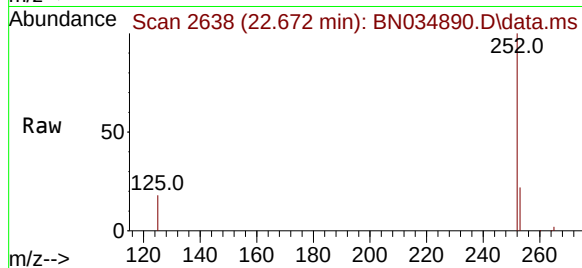
Tgt Ion:252 Resp: 158475

Ion Ratio Lower Upper

252 100

253 21.5 19.4 29.2

125 18.2 21.4 32.2#



#38

Benzo(k)fluoranthene

Concen: 3.162 ng

RT: 22.713 min Scan# 2652

Delta R.T. 0.001 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

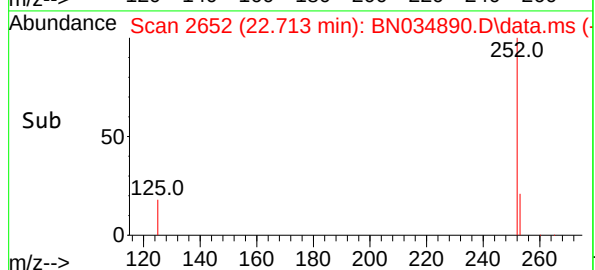
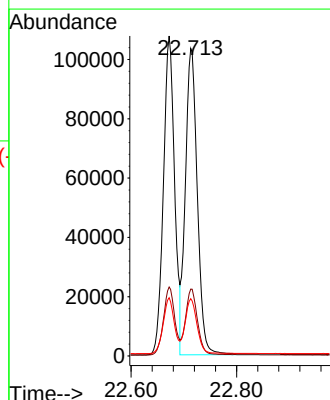
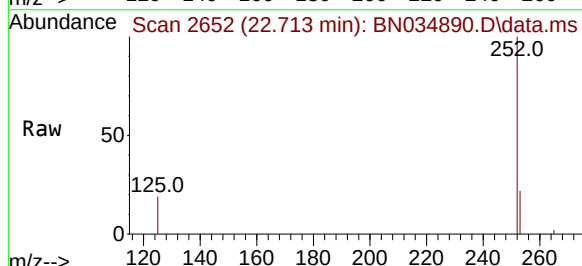
Tgt Ion:252 Resp: 162724

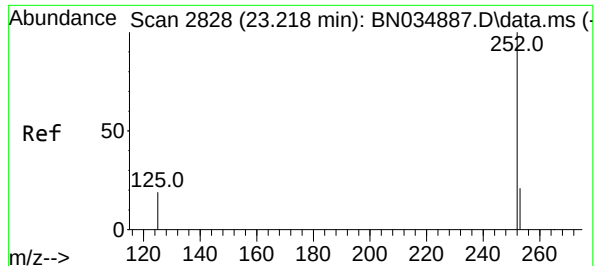
Ion Ratio Lower Upper

252 100

253 21.8 19.8 29.8

125 18.6 22.6 33.8#





#39

Benzo(a)pyrene

Concen: 3.296 ng

RT: 23.225 min Scan# 21

Delta R.T. 0.007 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

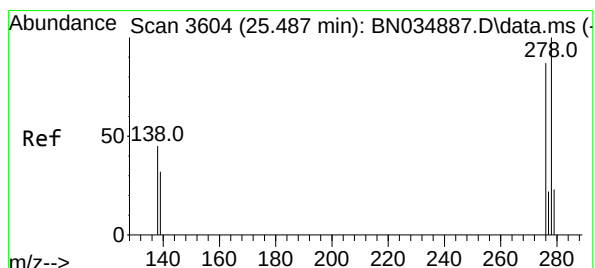
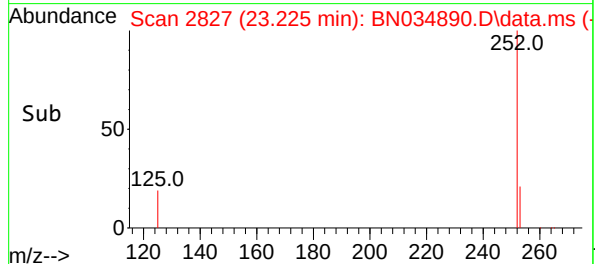
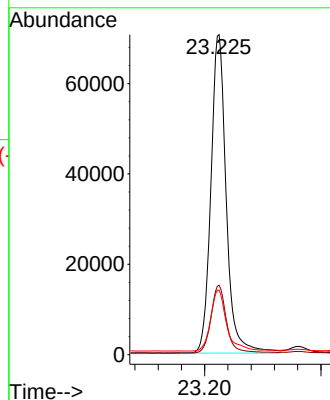
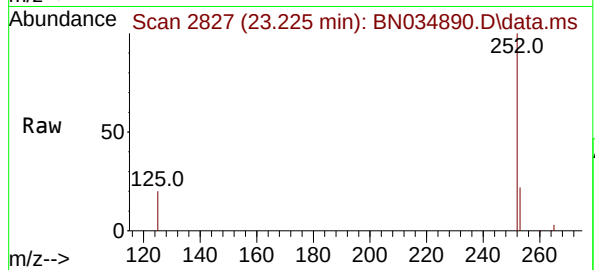
Tgt Ion:252 Resp: 129107

Ion Ratio Lower Upper

252 100

253 21.7 21.4 32.2

125 20.2 27.8 41.6#



#40

Dibenzo(a,h)anthracene

Concen: 3.126 ng

RT: 25.490 min Scan# 3602

Delta R.T. 0.004 min

Lab File: BN034890.D

Acq: 07 Nov 2024 13:13

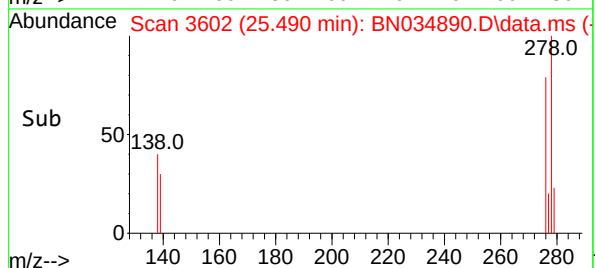
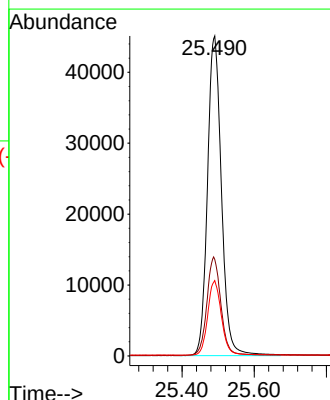
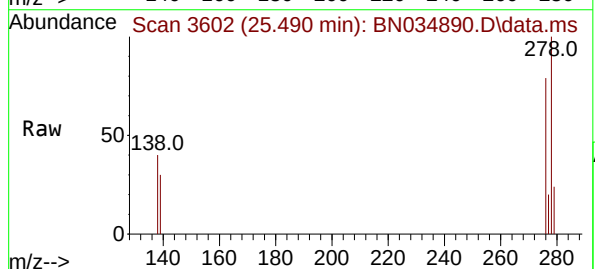
Tgt Ion:278 Resp: 120965

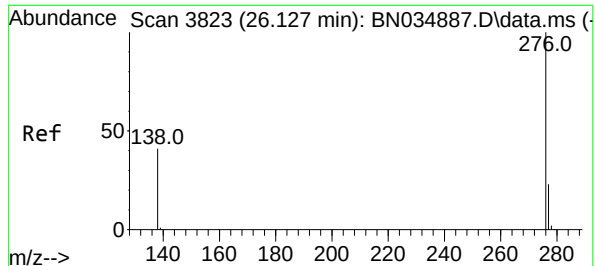
Ion Ratio Lower Upper

278 100

139 30.2 27.2 40.8

279 23.6 21.4 32.0





#41

Benzo(g,h,i)perylene

Concen: 3.077 ng

RT: 26.128 min Scan# 31

Delta R.T. 0.001 min

Lab File: BN034890.D

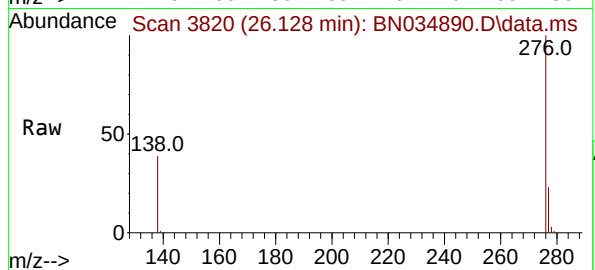
Acq: 07 Nov 2024 13:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



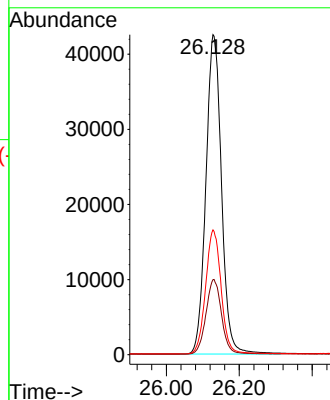
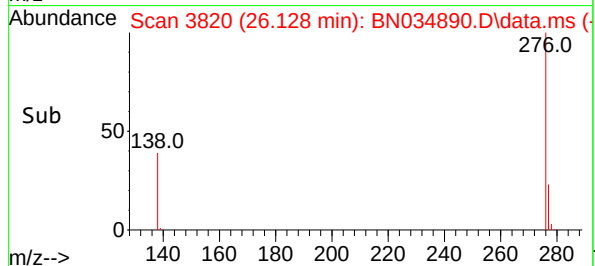
Tgt Ion:276 Resp: 126394

Ion Ratio Lower Upper

276 100

277 23.5 20.2 30.2

138 39.0 33.9 50.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
 Data File : BN034891.D
 Acq On : 07 Nov 2024 13:49
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Nov 07 14:42:43 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 07 14:34:20 2024
 Response via : Initial Calibration

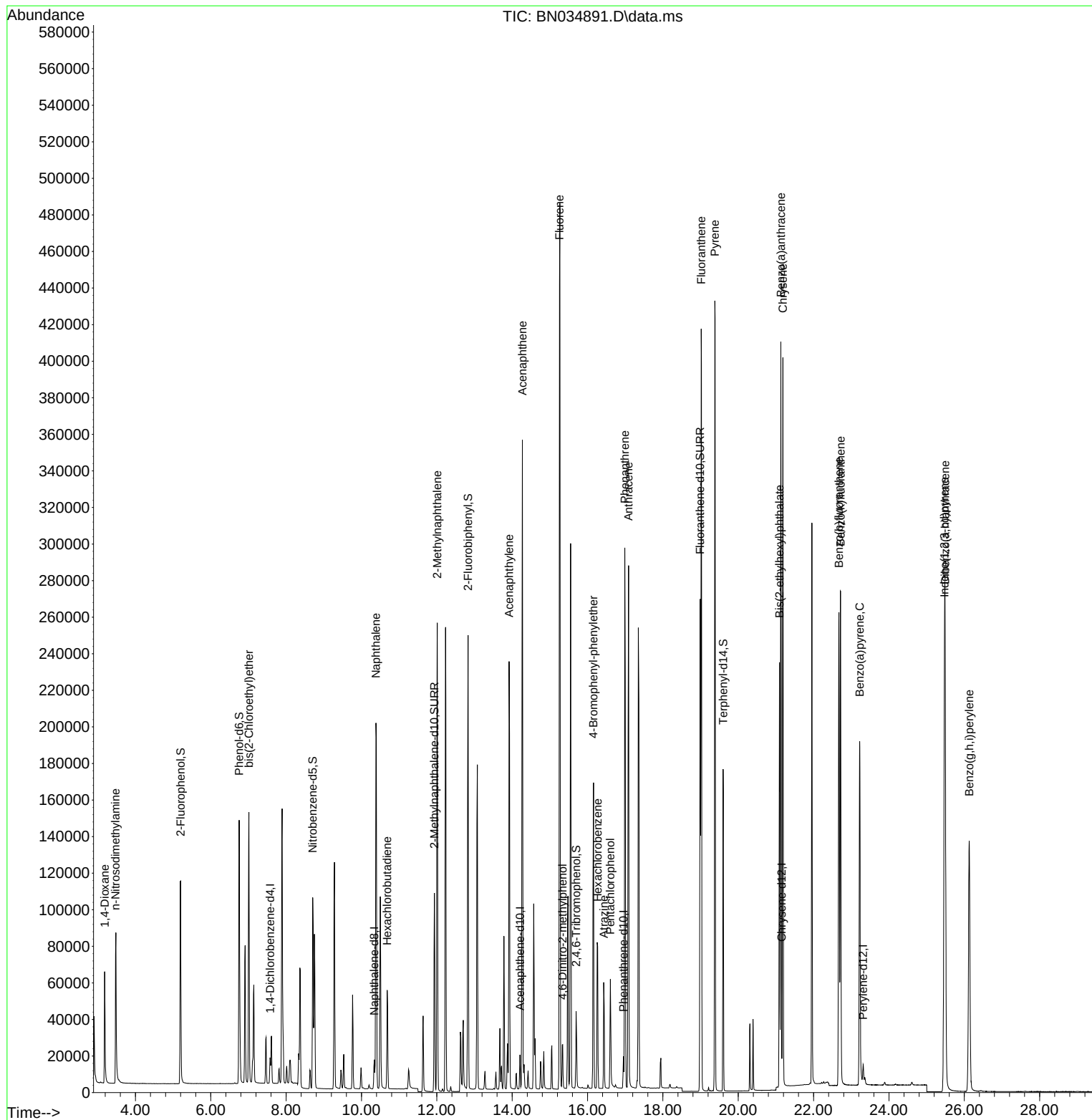
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	6427	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	19461	0.400	ng	0.00
13) Acenaphthene-d10	14.208	164	9747	0.400	ng	0.00
19) Phenanthrene-d10	16.952	188	20311	0.400	ng	# 0.00
29) Chrysene-d12	21.149	240	15131	0.400	ng	0.00
35) Perylene-d12	23.315	264	13025	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.199	112	89979	5.023	ng	0.00
5) Phenol-d6	6.752	99	125057	5.259	ng	0.00
8) Nitrobenzene-d5	8.707	82	78775	5.193	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	139970	5.277	ng	0.00
14) 2,4,6-Tribromophenol	15.698	330	20351	5.010	ng	0.00
15) 2-Fluorobiphenyl	12.829	172	200084	4.860	ng	0.00
27) Fluoranthene-d10	18.990	212	246903	5.391	ng	0.00
31) Terphenyl-d14	19.598	244	136572	4.818	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.184	88	35433	4.363	ng	99
3) n-Nitrosodimethylamine	3.473	42	50806	4.637	ng	# 97
6) bis(2-Chloroethyl)ether	7.012	93	98796	4.816	ng	99
9) Naphthalene	10.383	128	270344	5.006	ng	99
10) Hexachlorobutadiene	10.682	225	41206	4.787	ng	# 98
12) 2-Methylnaphthalene	12.011	142	174529	5.280	ng	99
16) Acenaphthylene	13.919	152	255528	5.435	ng	100
17) Acenaphthene	14.272	154	170892	5.252	ng	93
18) Fluorene	15.255	166	210362	5.193	ng	98
20) 4,6-Dinitro-2-methylph...	15.341	198	15635	5.005	ng	# 20
21) 4-Bromophenyl-phenylether	16.157	248	56439	5.213	ng	# 86
22) Hexachlorobenzene	16.269	284	63070	4.839	ng	97
23) Atrazine	16.431	200	45719	5.829	ng	# 91
24) Pentachlorophenol	16.604	266	27136	5.004	ng	98
25) Phenanthrene	16.989	178	310025	4.976	ng	100
26) Anthracene	17.088	178	293574	5.466	ng	100
28) Fluoranthene	19.017	202	353254	5.388	ng	99
30) Pyrene	19.380	202	362438	4.731	ng	100
32) Benzo(a)anthracene	21.131	228	306722	5.200	ng	99
33) Chrysene	21.185	228	302895	4.852	ng	98
34) Bis(2-ethylhexyl)phtha...	21.095	149	198170	5.853	ng	97
36) Indeno(1,2,3-cd)pyrene	25.473	276	290582	5.008	ng	96
37) Benzo(b)fluoranthene	22.672	252	290476	5.071	ng	# 88
38) Benzo(k)fluoranthene	22.716	252	298841	5.006	ng	# 86
39) Benzo(a)pyrene	23.222	252	242944	5.345	ng	# 80
40) Dibenzo(a,h)anthracene	25.491	278	225693	5.027	ng	92
41) Benzo(g,h,i)perylene	26.131	276	235238	4.936	ng	94

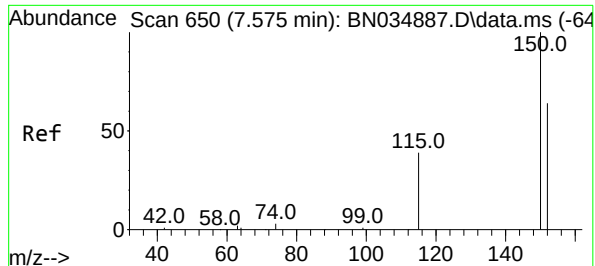
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN034891.D
Acq On : 07 Nov 2024 13:49
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 07 14:42:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 14:34:20 2024
Response via : Initial Calibration

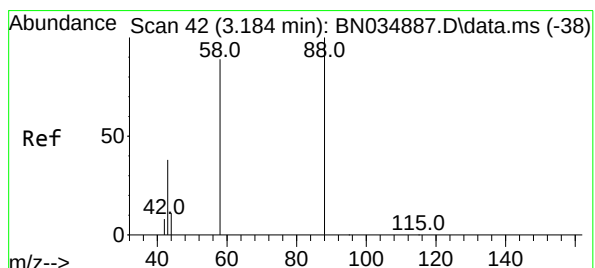
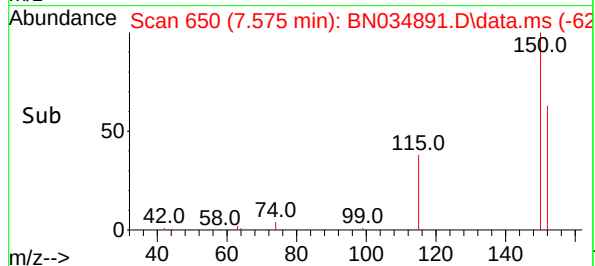
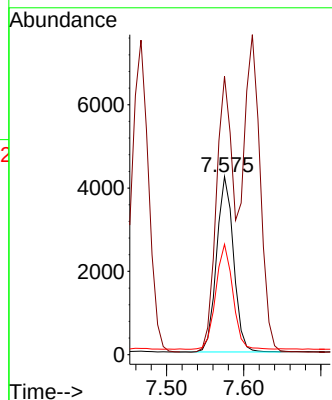
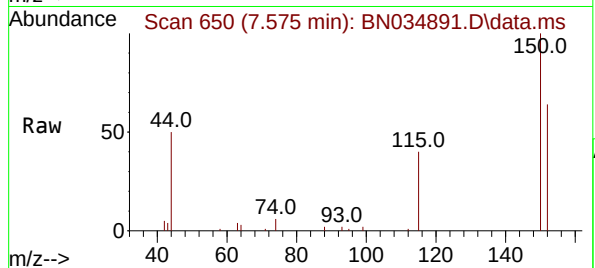




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

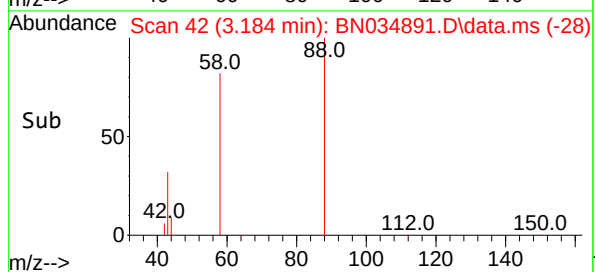
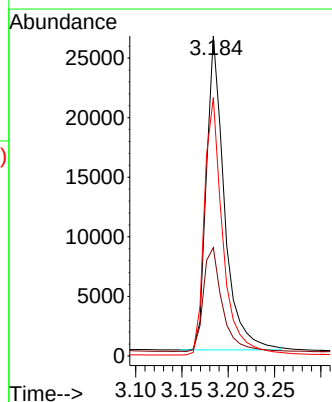
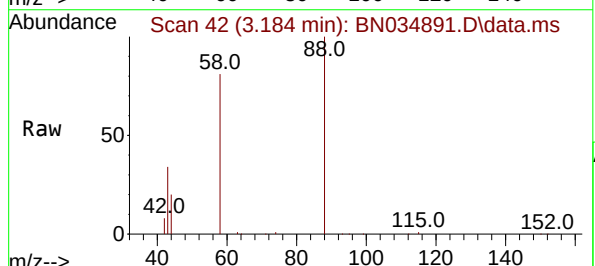
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

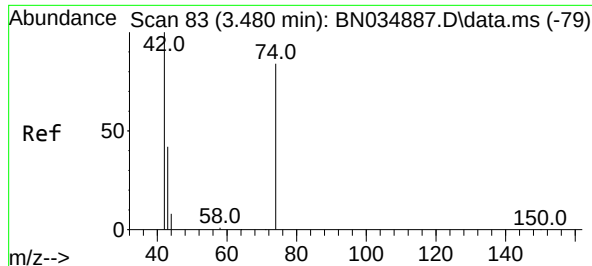
Tgt Ion:152 Resp: 6427
Ion Ratio Lower Upper
152 100
150 156.3 124.4 186.6
115 62.0 50.5 75.7



#2
1,4-Dioxane
Concen: 4.363 ng
RT: 3.184 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

Tgt Ion: 88 Resp: 35433
Ion Ratio Lower Upper
88 100
43 35.2 28.2 42.2
58 84.6 67.1 100.7

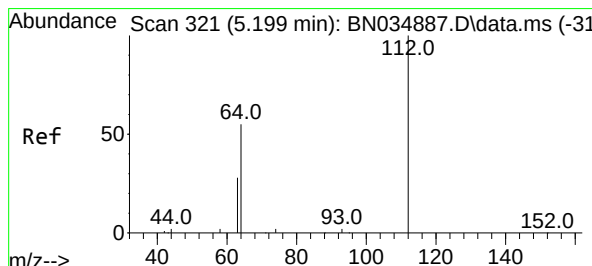
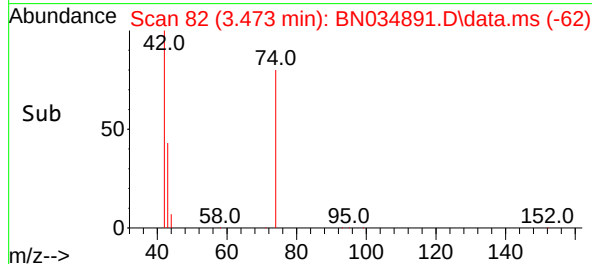
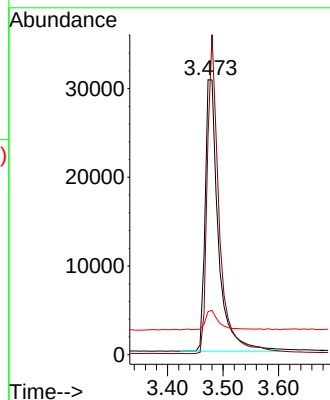
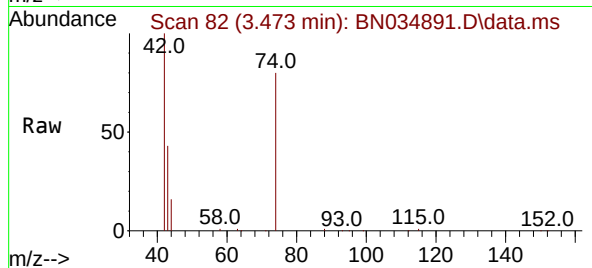




#3
n-Nitrosodimethylamine
Concen: 4.637 ng
RT: 3.473 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

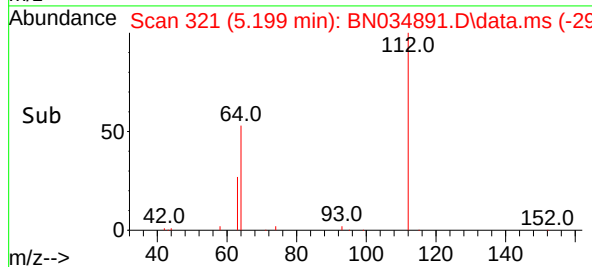
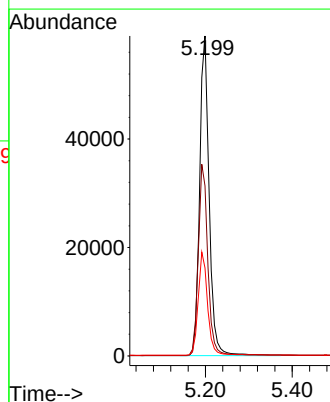
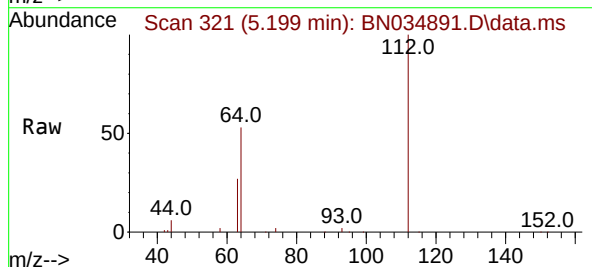
Instrument :
BNA_N
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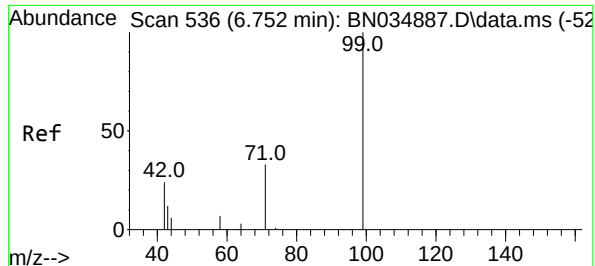
Tgt Ion: 42 Resp: 50806
Ion Ratio Lower Upper
42 100
74 106.6 83.4 125.2
44 7.2 8.6 12.8#



#4
2-Fluorophenol
Concen: 5.023 ng
RT: 5.199 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

Tgt Ion: 112 Resp: 89979
Ion Ratio Lower Upper
112 100
64 60.1 49.6 74.4
63 31.7 26.3 39.5

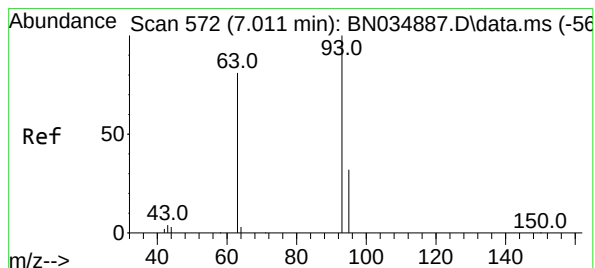
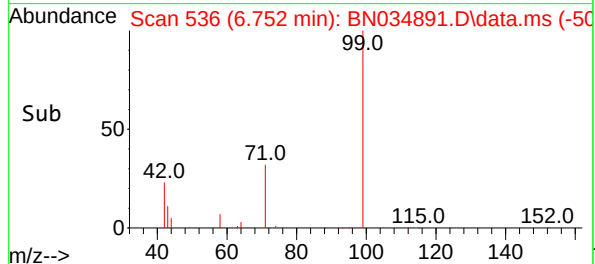
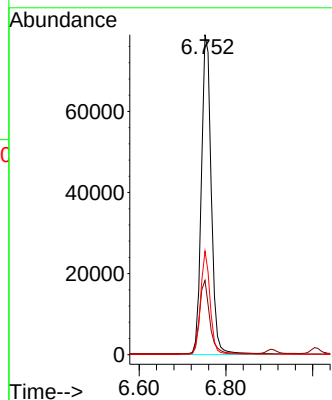
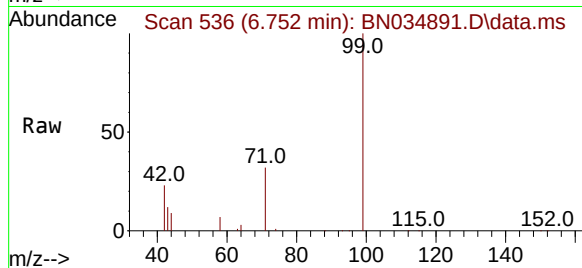




#5
Phenol-d6
Concen: 5.259 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

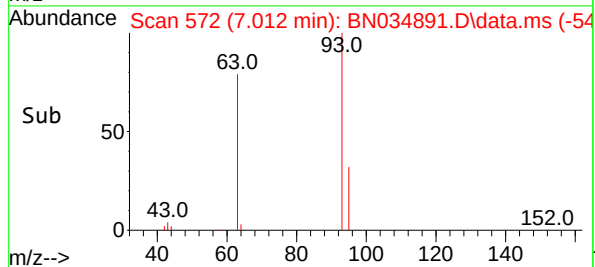
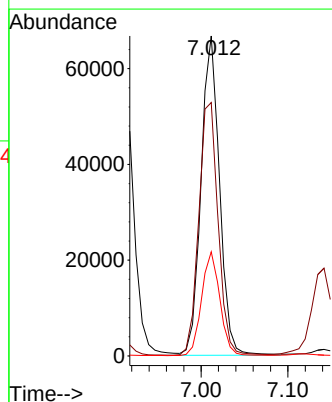
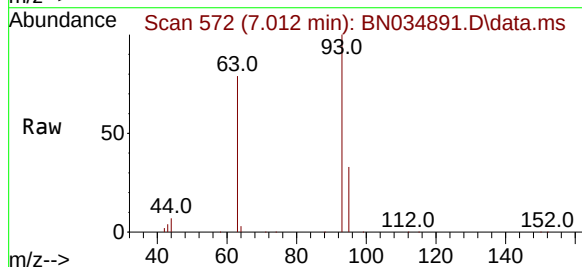
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ClientSampleId :
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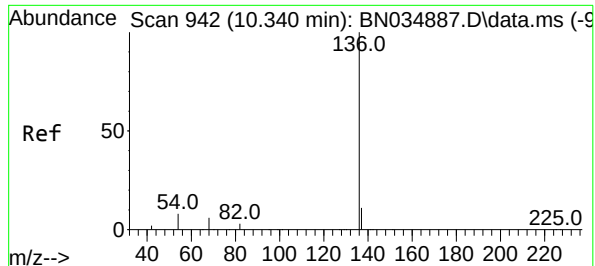
Tgt Ion: 99 Resp: 125057
Ion Ratio Lower Upper
99 100
42 23.6 20.2 30.2
71 31.1 25.4 38.0



#6
bis(2-Chloroethyl)ether
Concen: 4.816 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

Tgt Ion: 93 Resp: 98796
Ion Ratio Lower Upper
93 100
63 82.6 67.5 101.3
95 32.1 25.7 38.5

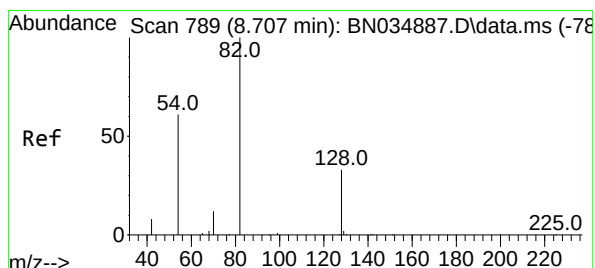
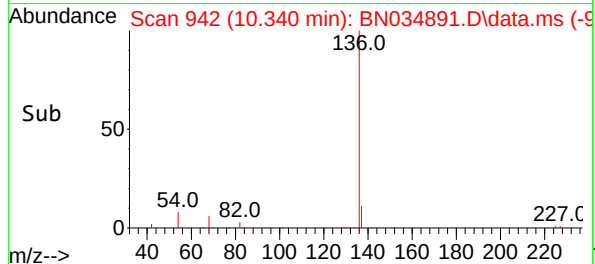
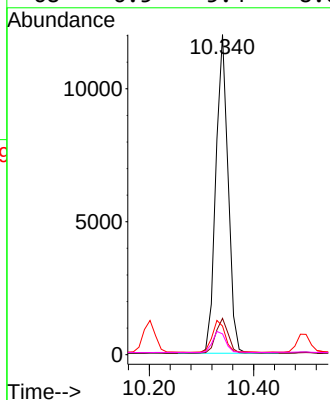
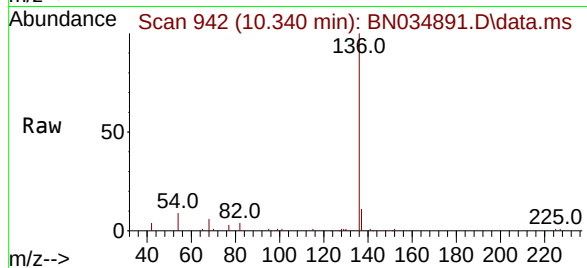




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

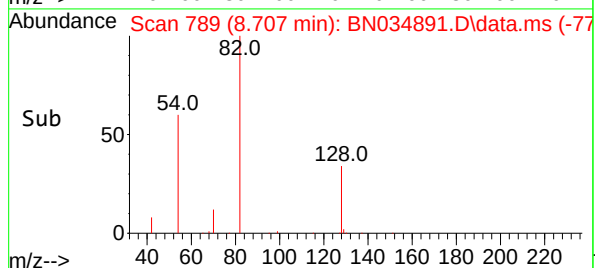
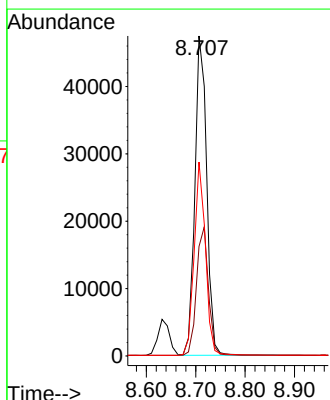
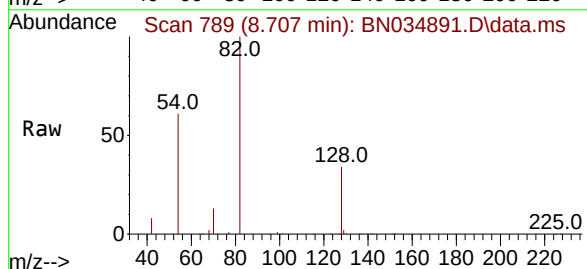
Instrument :
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ClientSampleId :
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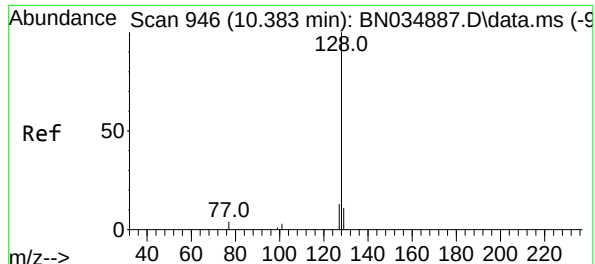
Tgt Ion:	136	Resp:	19461
Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.9	13.3
54	9.0	6.9	10.3
68	6.5	5.4	8.0



#8
Nitrobenzene-d5
Concen: 5.193 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

Tgt Ion:	82	Resp:	78775
Ion	Ratio	Lower	Upper
82	100		
128	34.2	28.1	42.1
54	60.6	49.8	74.6

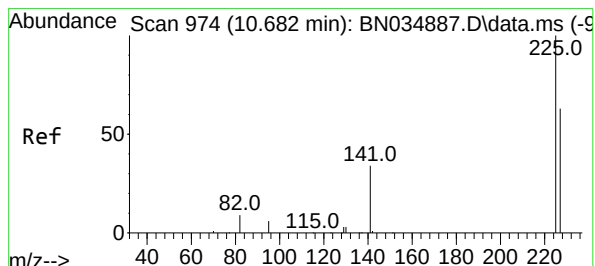
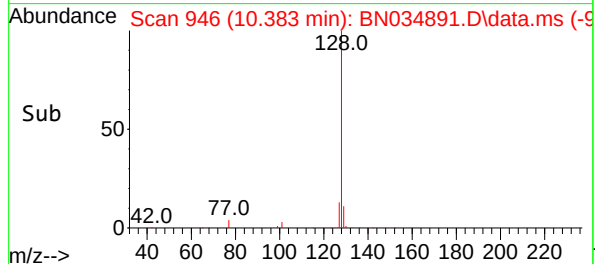
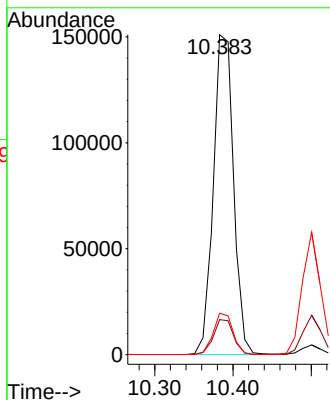
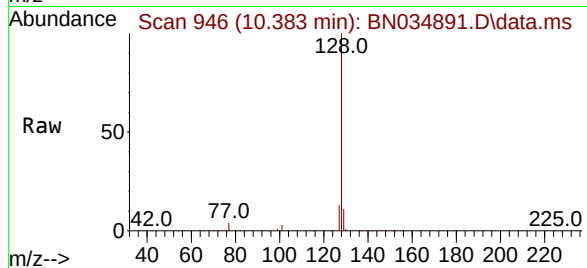




#9
Naphthalene
Concen: 5.006 ng
RT: 10.383 min Scan# 946
Delta R.T. 0.000 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

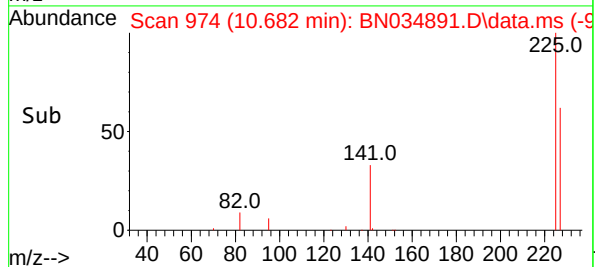
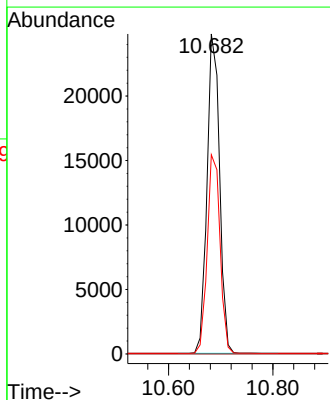
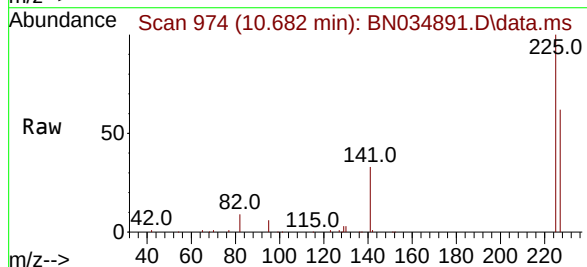
Instrument :
BNA_N
ClientSampleId :
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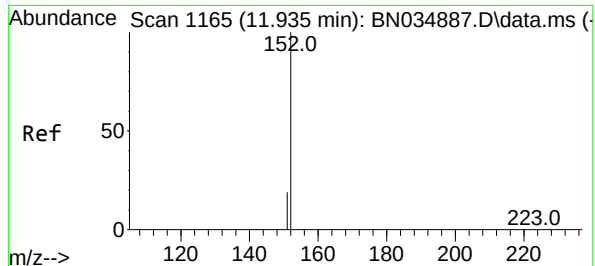
Tgt Ion:128 Resp: 270344
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.4
127 12.9 10.8 16.2



#10
Hexachlorobutadiene
Concen: 4.787 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

Tgt Ion:225 Resp: 41206
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 52.0 78.0

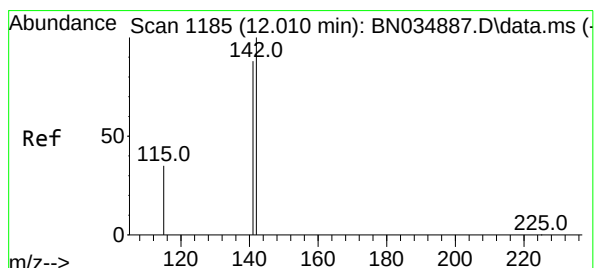
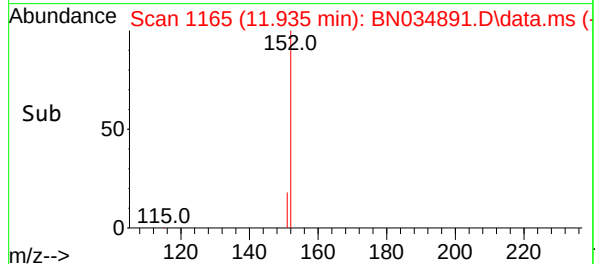
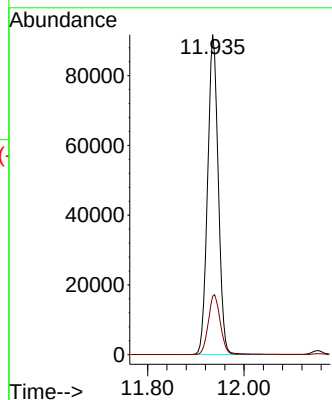
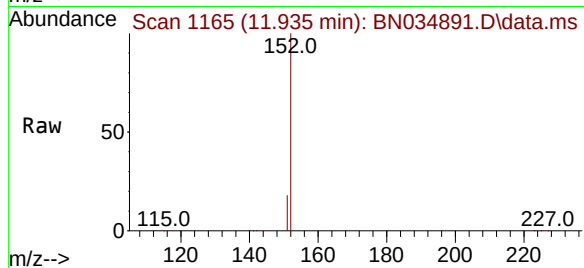




#11
2-Methylnaphthalene-d10
Concen: 5.277 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

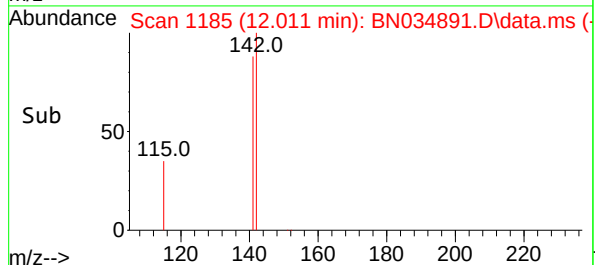
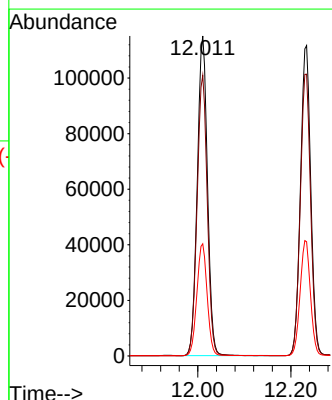
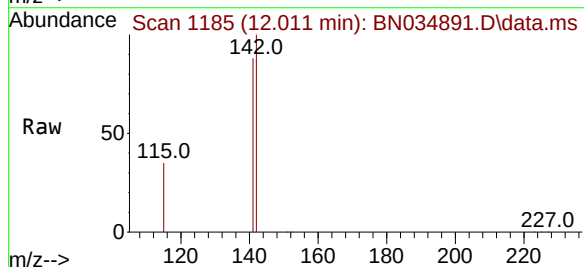
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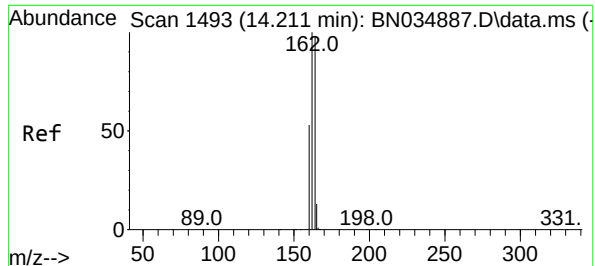
Tgt Ion:152 Resp: 139970
Ion Ratio Lower Upper
152 100
151 20.9 17.1 25.7



#12
2-Methylnaphthalene
Concen: 5.280 ng
RT: 12.011 min Scan# 1185
Delta R.T. 0.000 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

Tgt Ion:142 Resp: 174529
Ion Ratio Lower Upper
142 100
141 87.7 70.5 105.7
115 35.0 29.4 44.2

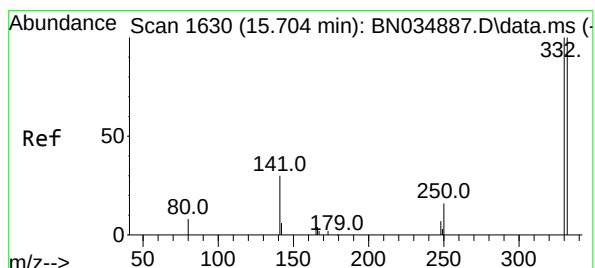
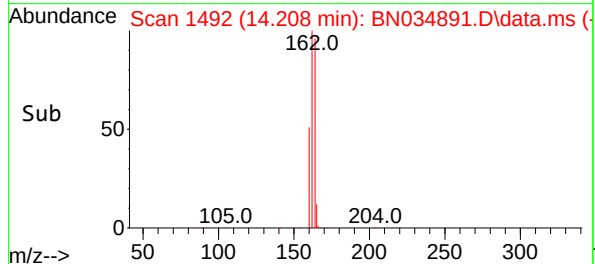
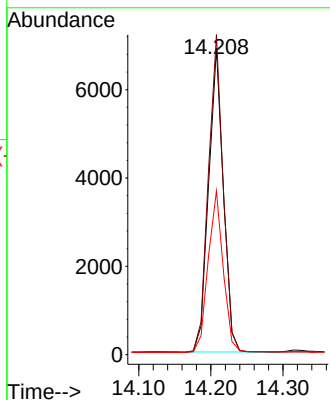
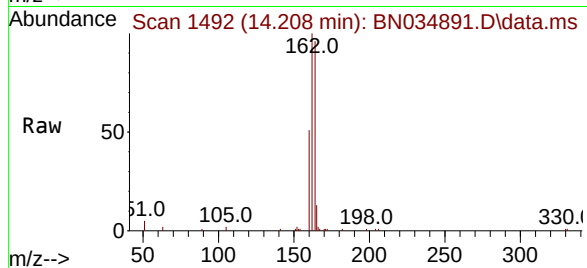




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.208 min Scan# 1492
Delta R.T. -0.003 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

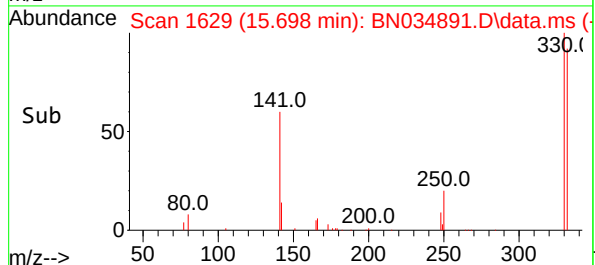
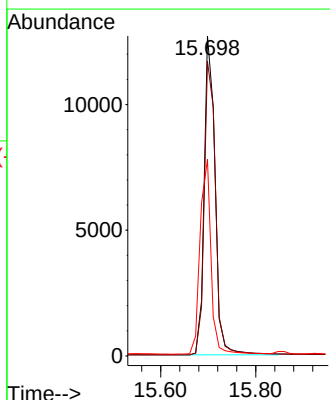
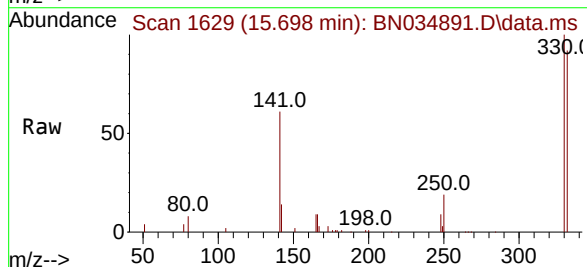
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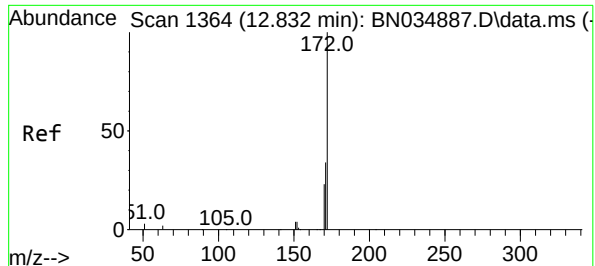
Tgt Ion:164 Resp: 9747
Ion Ratio Lower Upper
164 100
162 104.3 81.9 122.9
160 53.4 43.5 65.3



#14
2,4,6-Tribromophenol
Concen: 5.010 ng
RT: 15.698 min Scan# 1629
Delta R.T. -0.006 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

Tgt Ion:330 Resp: 20351
Ion Ratio Lower Upper
330 100
332 95.6 77.1 115.7
141 61.2 54.1 81.1

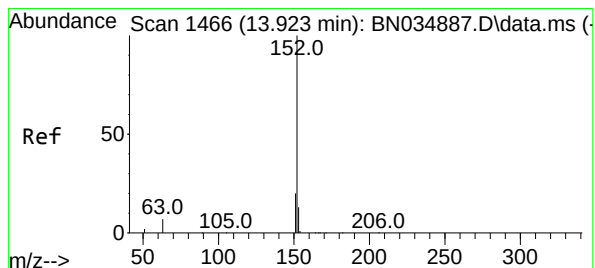
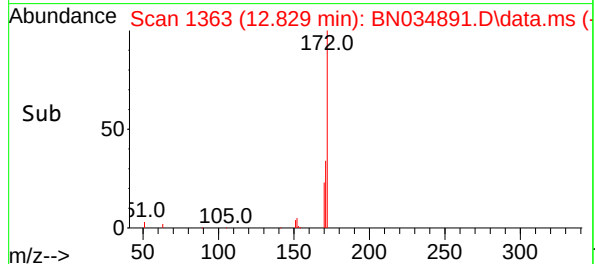
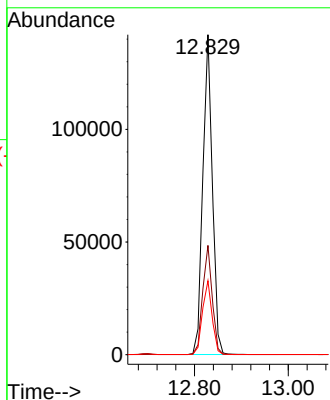
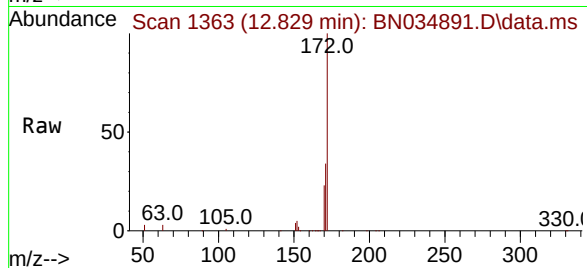




#15
2-Fluorobiphenyl
Concen: 4.860 ng
RT: 12.829 min Scan# 1363
Delta R.T. -0.004 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

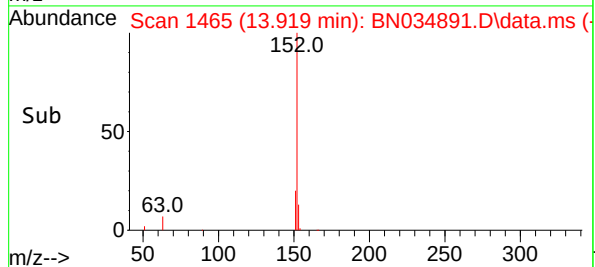
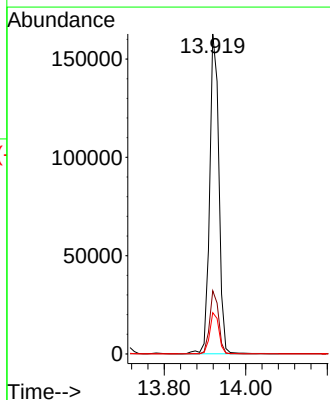
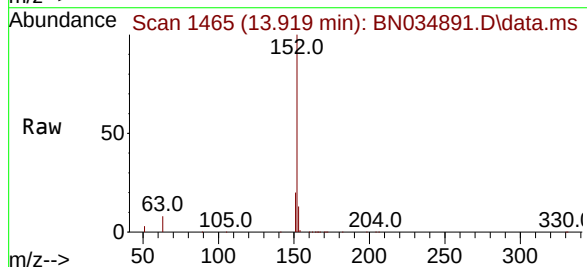
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

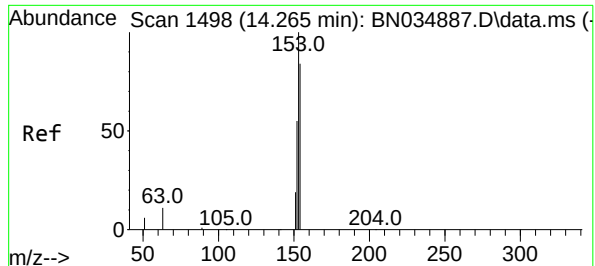
Tgt Ion:172 Resp: 200084
Ion Ratio Lower Upper
172 100
171 34.1 27.9 41.9
170 23.1 19.0 28.4



#16
Acenaphthylene
Concen: 5.435 ng
RT: 13.919 min Scan# 1465
Delta R.T. -0.004 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

Tgt Ion:152 Resp: 255528
Ion Ratio Lower Upper
152 100
151 19.1 15.2 22.8
153 12.9 10.4 15.6

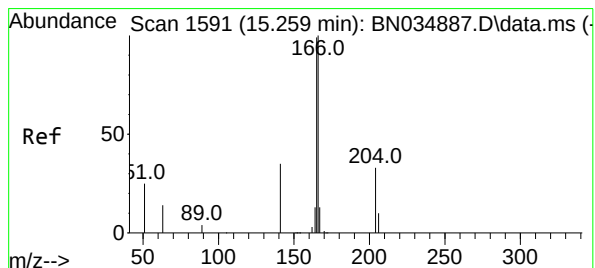
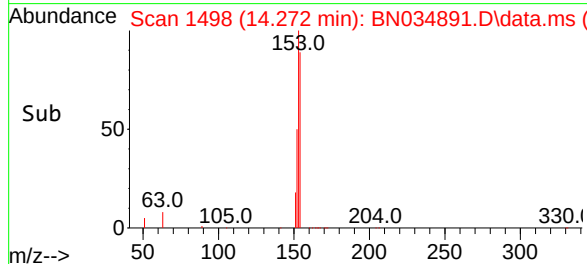
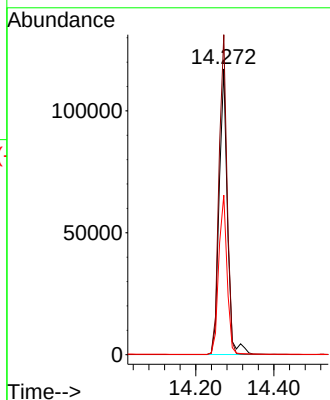
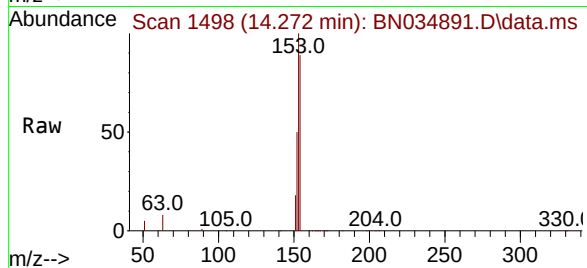




#17
Acenaphthene
Concen: 5.252 ng
RT: 14.272 min Scan# 1498
Delta R.T. 0.007 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

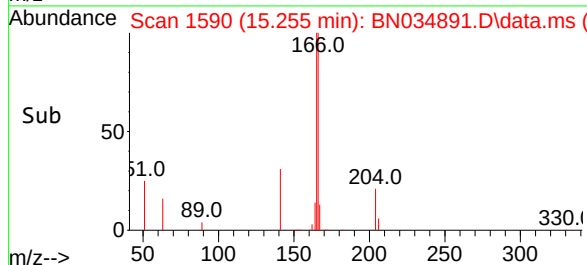
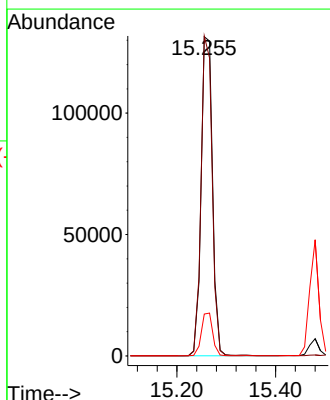
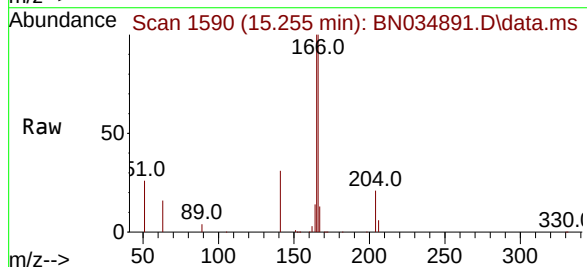
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

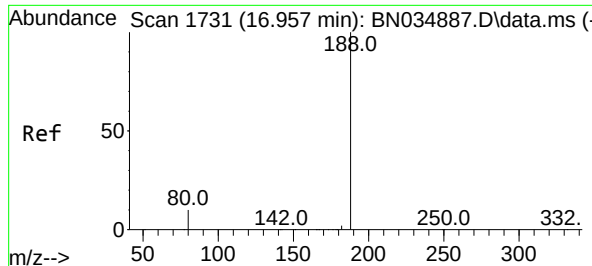
Tgt Ion:154 Resp: 170892
Ion Ratio Lower Upper
154 100
153 108.9 92.2 138.2
152 55.9 51.1 76.7



#18
Fluorene
Concen: 5.193 ng
RT: 15.255 min Scan# 1590
Delta R.T. -0.004 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

Tgt Ion:166 Resp: 210362
Ion Ratio Lower Upper
166 100
165 97.6 79.5 119.3
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.952 min Scan# 1731

Delta R.T. -0.005 min

Lab File: BN034891.D

Acq: 07 Nov 2024 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

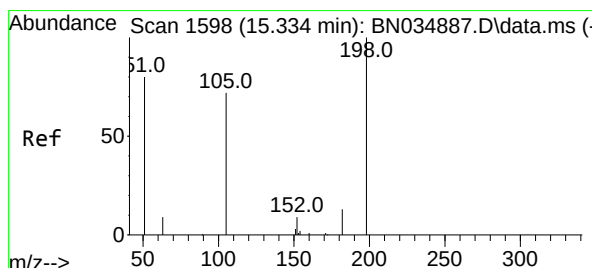
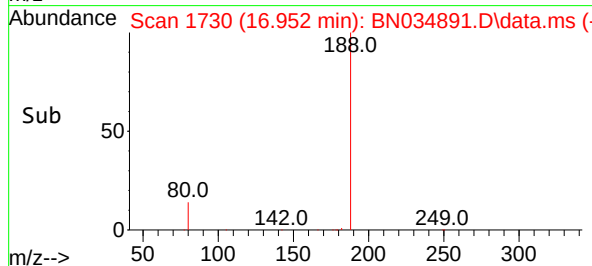
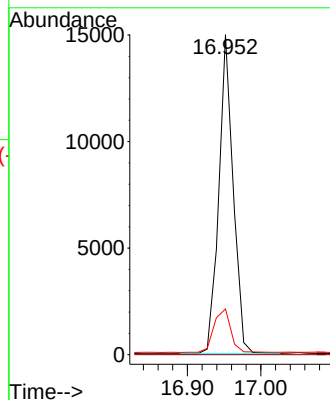
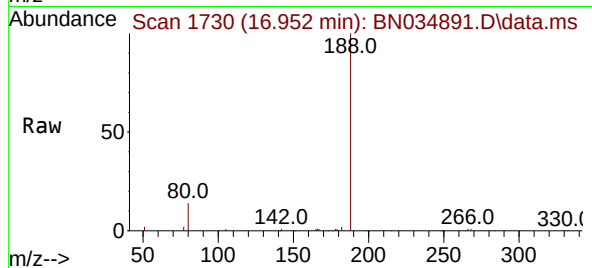
Tgt Ion:188 Resp: 20311

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.3 8.6 12.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 5.005 ng

RT: 15.341 min Scan# 1598

Delta R.T. 0.007 min

Lab File: BN034891.D

Acq: 07 Nov 2024 13:49

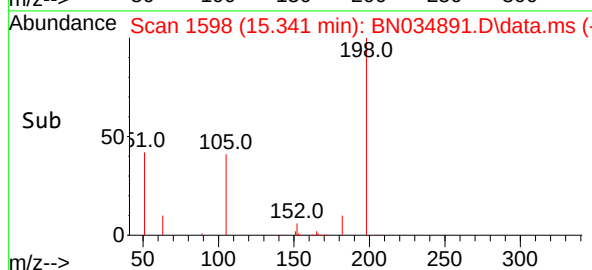
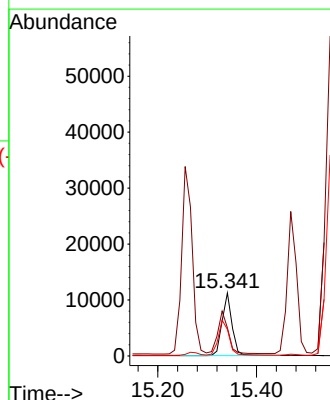
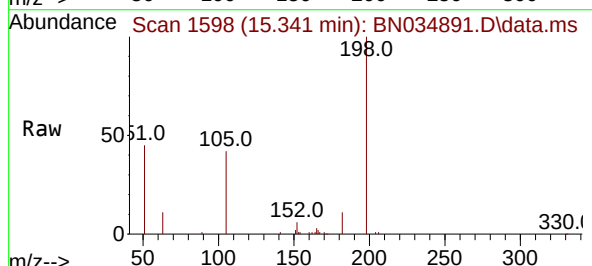
Tgt Ion:198 Resp: 15635

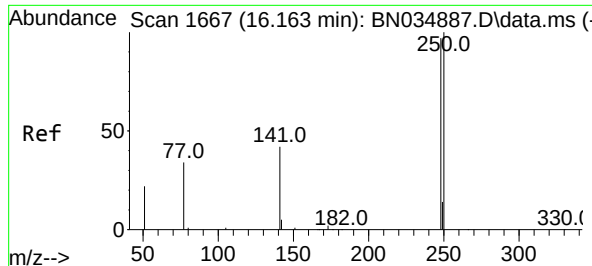
Ion Ratio Lower Upper

198 100

51 44.6 141.8 212.8#

105 42.0 75.6 113.4#





#21

4-Bromophenyl-phenylether

Concen: 5.213 ng

RT: 16.157 min Scan# 1666

Delta R.T. -0.005 min

Lab File: BN034891.D

Acq: 07 Nov 2024 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

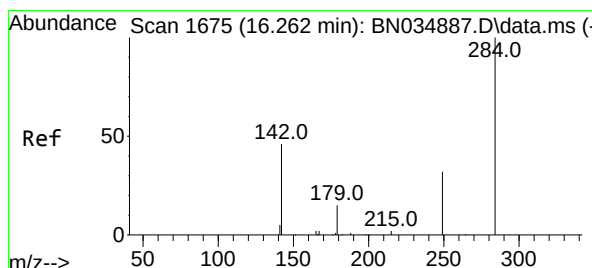
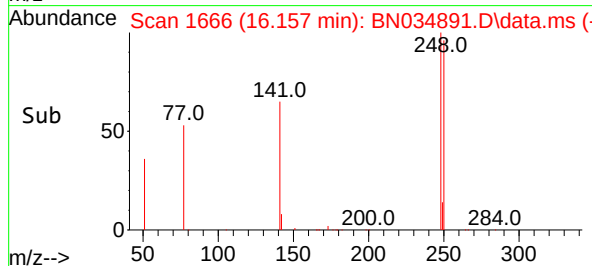
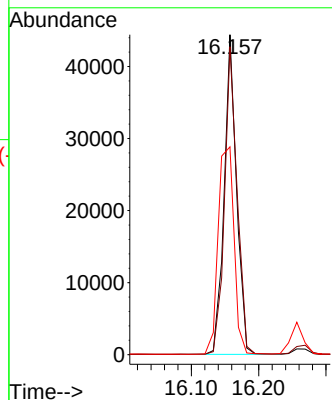
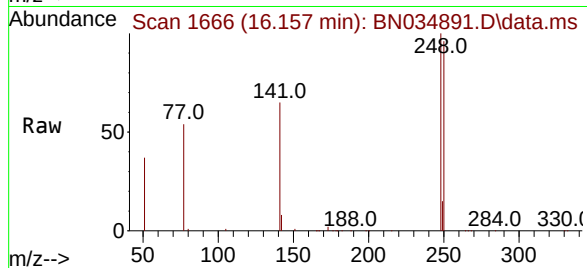
Tgt Ion:248 Resp: 56439

Ion Ratio Lower Upper

248 100

250 96.3 82.2 123.4

141 65.0 36.2 54.2#



#22

Hexachlorobenzene

Concen: 4.839 ng

RT: 16.269 min Scan# 1675

Delta R.T. 0.007 min

Lab File: BN034891.D

Acq: 07 Nov 2024 13:49

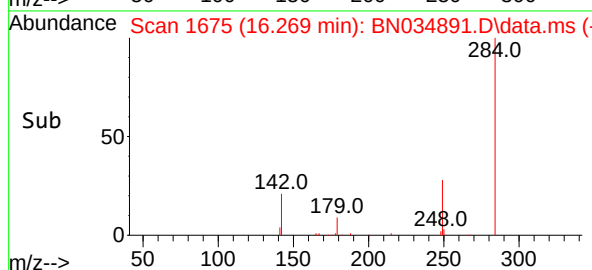
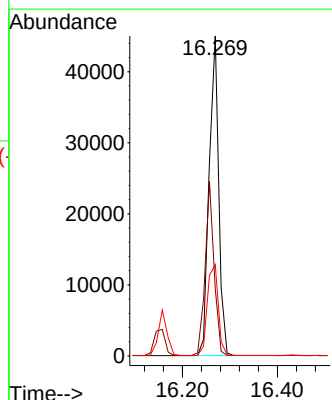
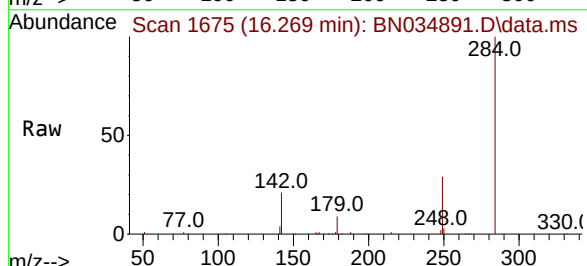
Tgt Ion:284 Resp: 63070

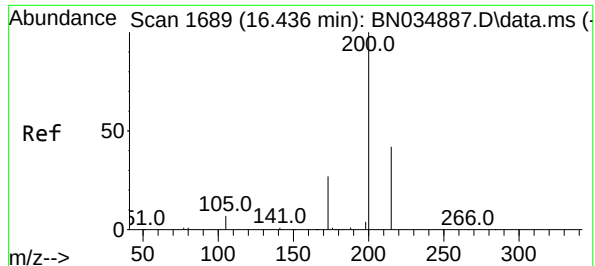
Ion Ratio Lower Upper

284 100

142 50.7 43.4 65.2

249 32.5 25.8 38.6

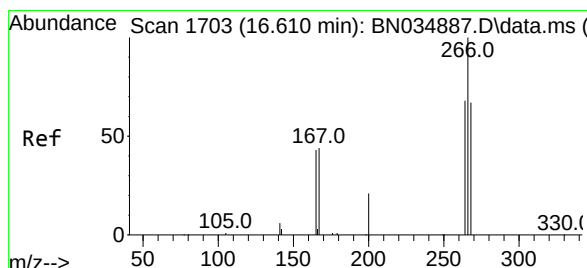
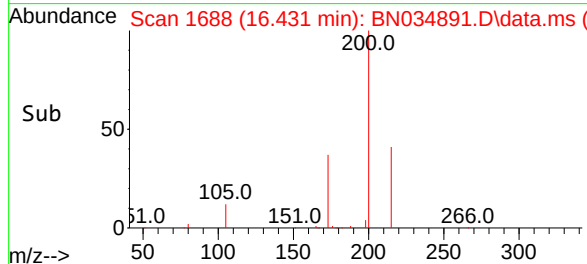
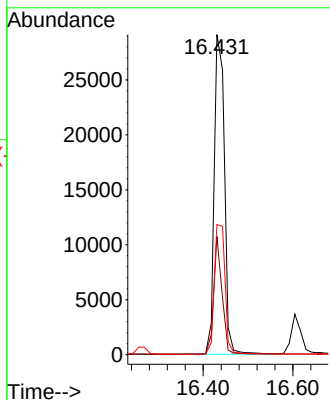
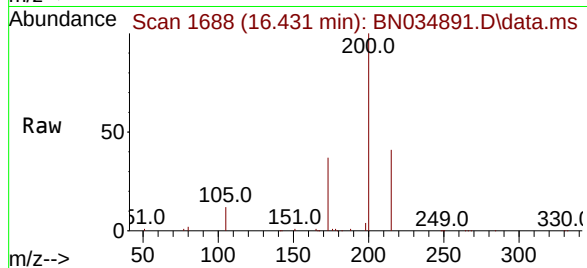




#23
Atrazine
Concen: 5.829 ng
RT: 16.431 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

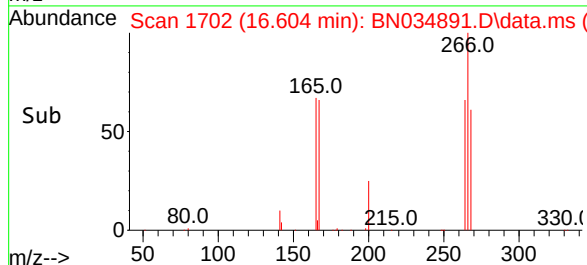
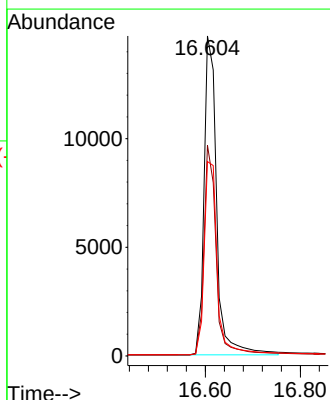
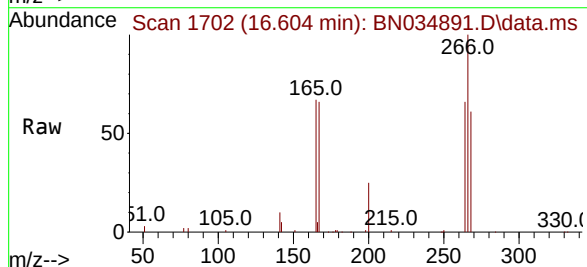
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

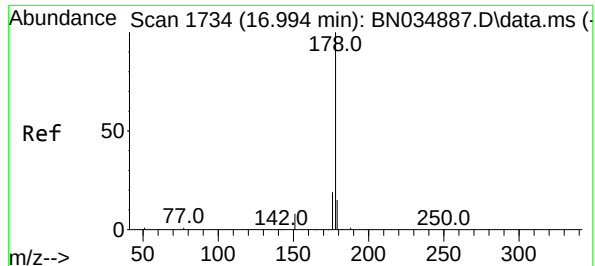
Tgt Ion:200 Resp: 45719
Ion Ratio Lower Upper
200 100
173 36.9 23.4 35.2#
215 40.7 35.4 53.0



#24
Pentachlorophenol
Concen: 5.004 ng
RT: 16.604 min Scan# 1702
Delta R.T. -0.006 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

Tgt Ion:266 Resp: 27136
Ion Ratio Lower Upper
266 100
264 63.4 51.3 76.9
268 63.4 53.0 79.6

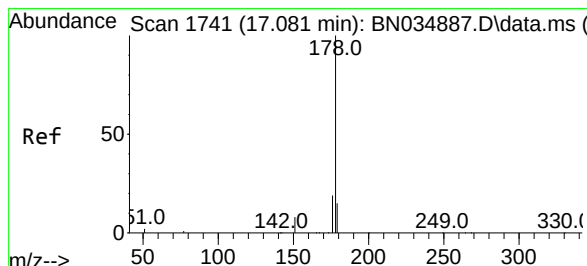
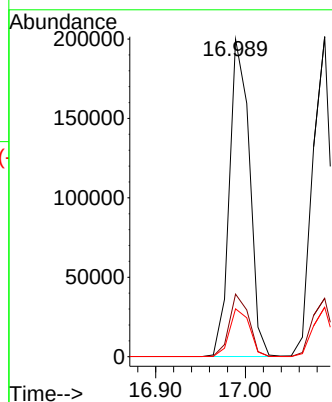
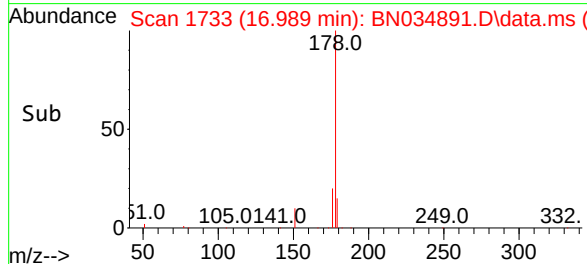
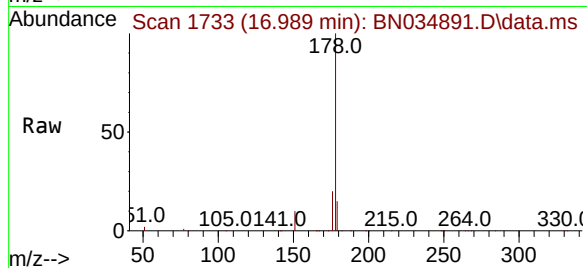




#25
Phenanthrene
Concen: 4.976 ng
RT: 16.989 min Scan# 1733
Delta R.T. -0.005 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

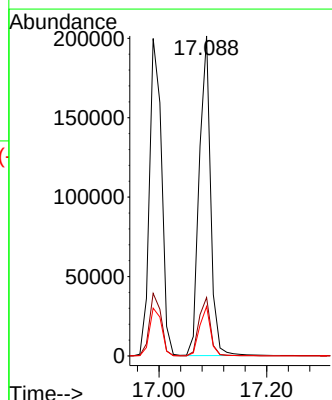
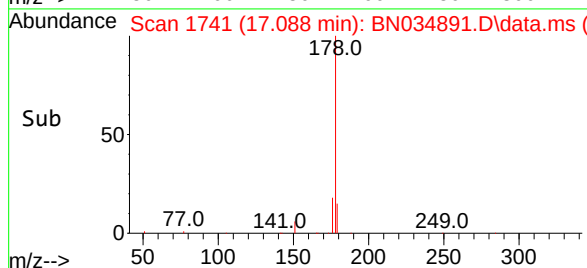
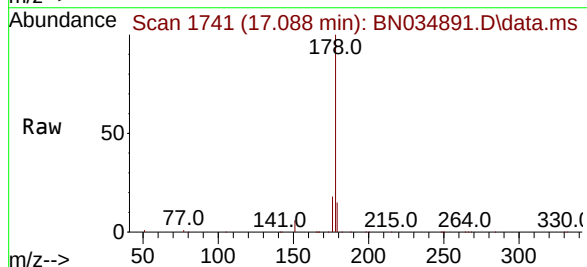
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

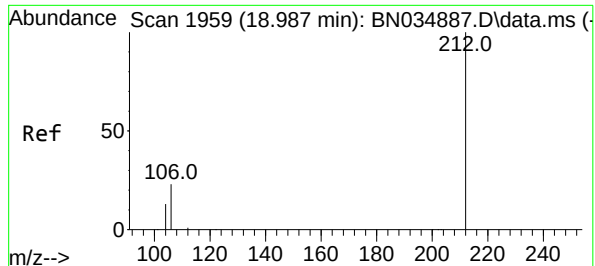
Tgt Ion:178 Resp: 310025
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 15.1 12.2 18.2



#26
Anthracene
Concen: 5.466 ng
RT: 17.088 min Scan# 1741
Delta R.T. 0.007 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

Tgt Ion:178 Resp: 293574
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.2 12.1 18.1





#27

Fluoranthene-d10

Concen: 5.391 ng

RT: 18.990 min Scan# 1958

Delta R.T. 0.002 min

Lab File: BN034891.D

Acq: 07 Nov 2024 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

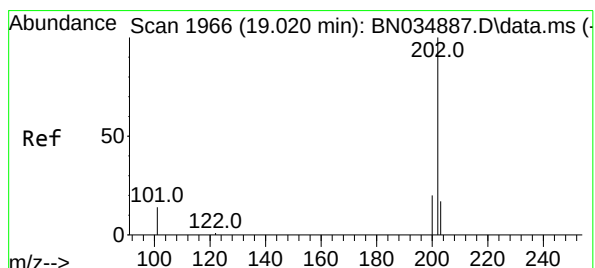
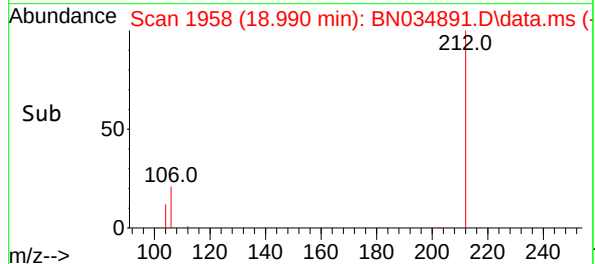
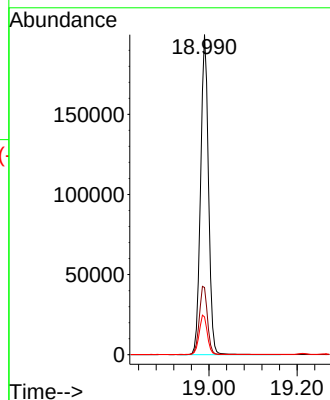
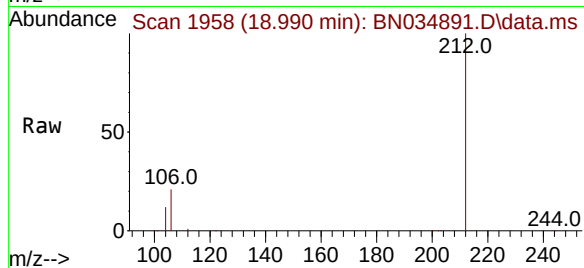
Tgt Ion:212 Resp: 246903

Ion Ratio Lower Upper

212 100

106 22.0 18.2 27.4

104 12.6 10.6 15.8



#28

Fluoranthene

Concen: 5.388 ng

RT: 19.017 min Scan# 1964

Delta R.T. -0.002 min

Lab File: BN034891.D

Acq: 07 Nov 2024 13:49

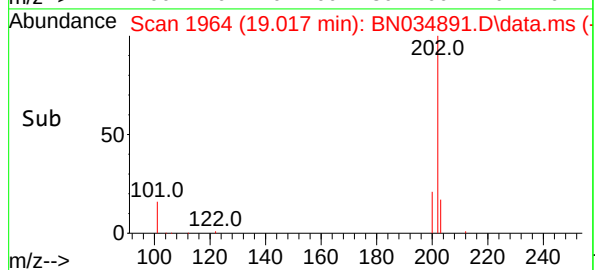
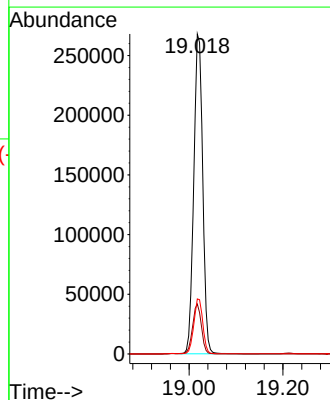
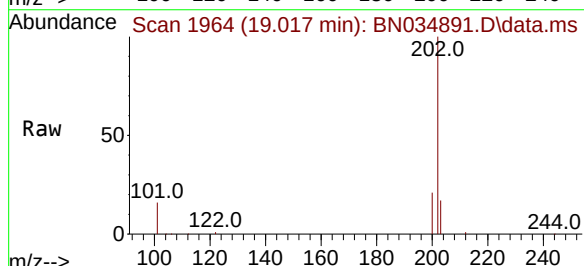
Tgt Ion:202 Resp: 353254

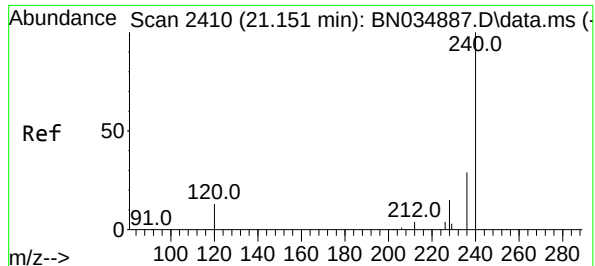
Ion Ratio Lower Upper

202 100

101 15.5 12.7 19.1

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.149 min Scan# 2410

Delta R.T. -0.002 min

Lab File: BN034891.D

Acq: 07 Nov 2024 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

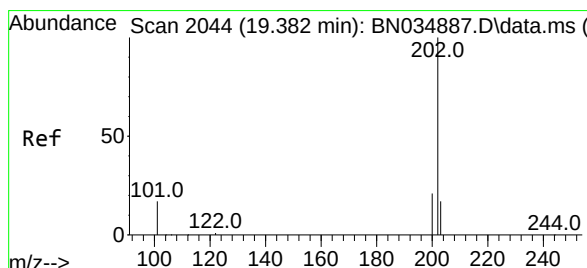
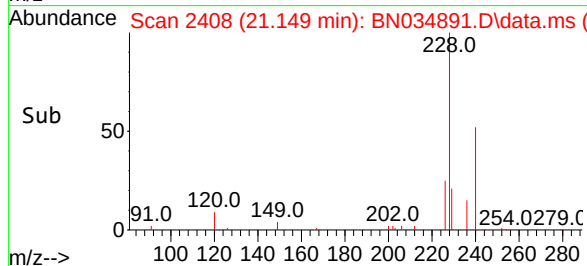
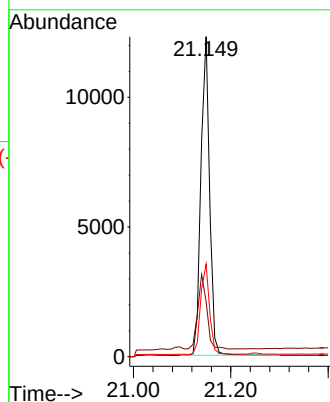
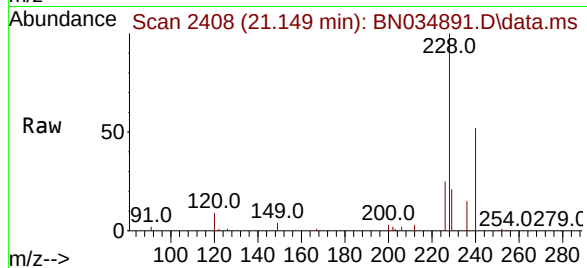
Tgt Ion:240 Resp: 15131

Ion Ratio Lower Upper

240 100

120 17.2 13.8 20.8

236 28.9 23.8 35.6



#30

Pyrene

Concen: 4.731 ng

RT: 19.380 min Scan# 2042

Delta R.T. -0.002 min

Lab File: BN034891.D

Acq: 07 Nov 2024 13:49

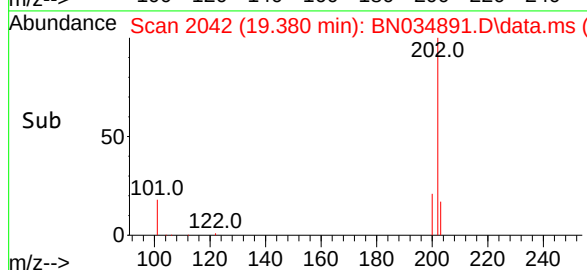
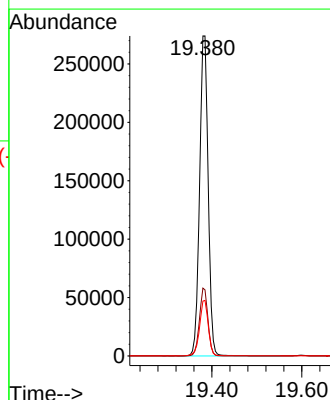
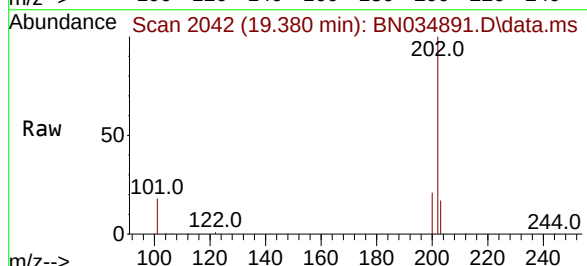
Tgt Ion:202 Resp: 362438

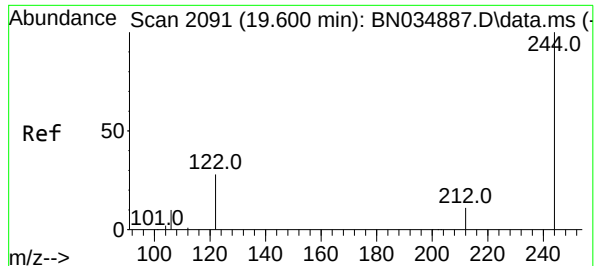
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.6 14.1 21.1

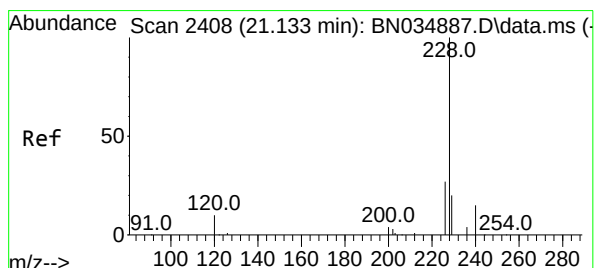
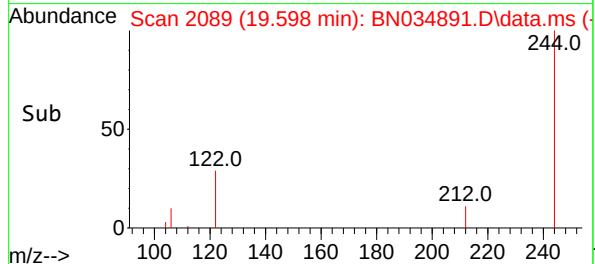
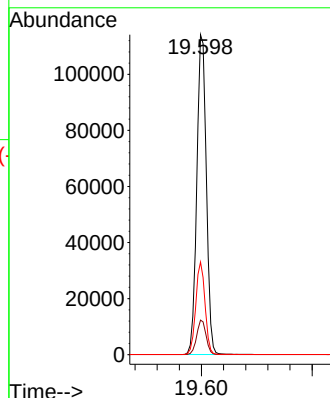
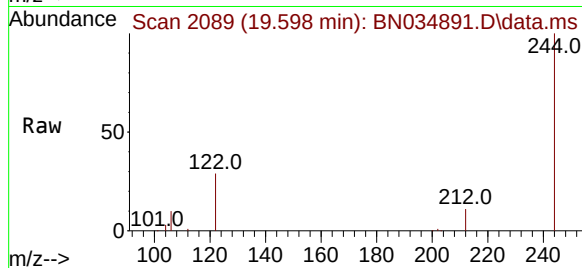




#31
Terphenyl-d14
Concen: 4.818 ng
RT: 19.598 min Scan# 2091
Delta R.T. -0.002 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

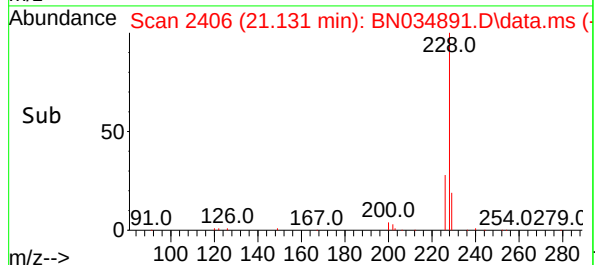
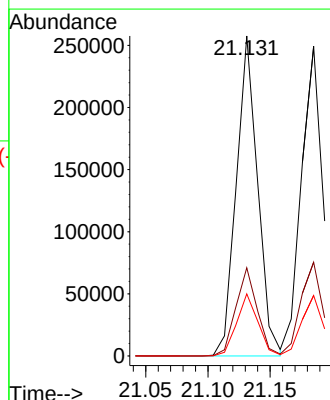
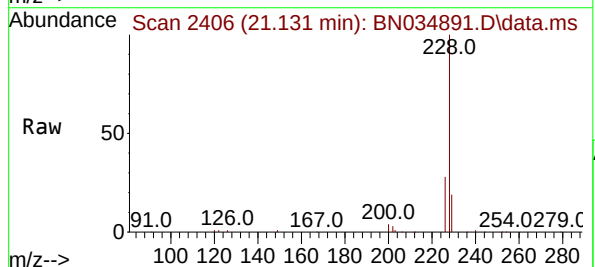
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

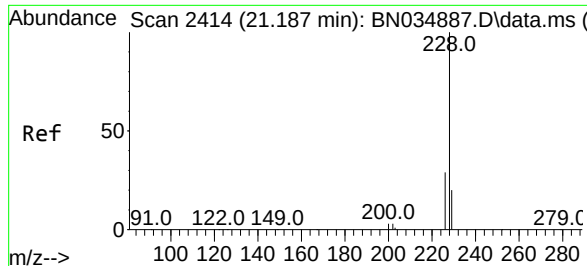
Tgt Ion:244 Resp: 136572
Ion Ratio Lower Upper
244 100
212 10.8 9.4 14.0
122 29.0 23.0 34.4



#32
Benzo(a)anthracene
Concen: 5.200 ng
RT: 21.131 min Scan# 2406
Delta R.T. -0.002 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

Tgt Ion:228 Resp: 306722
Ion Ratio Lower Upper
228 100
226 27.6 22.2 33.2
229 19.4 16.0 24.0

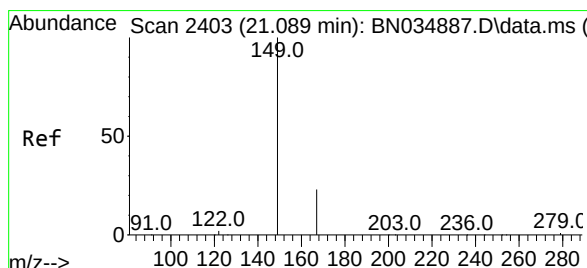
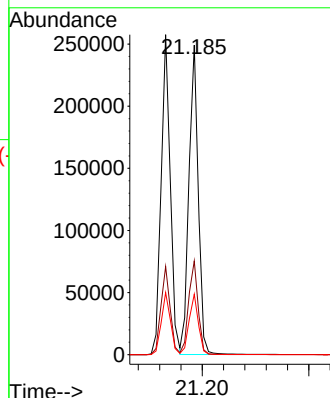
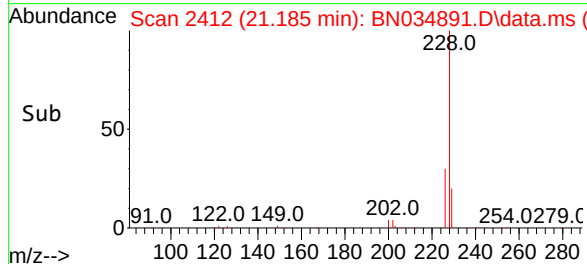
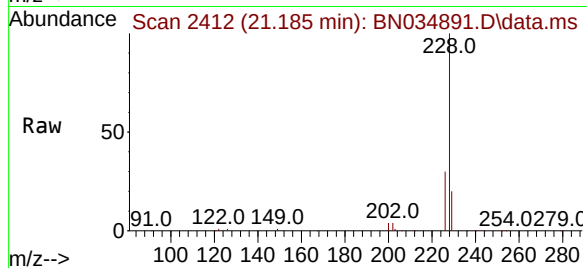




#33
Chrysene
Concen: 4.852 ng
RT: 21.185 min Scan# 2414
Delta R.T. -0.002 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

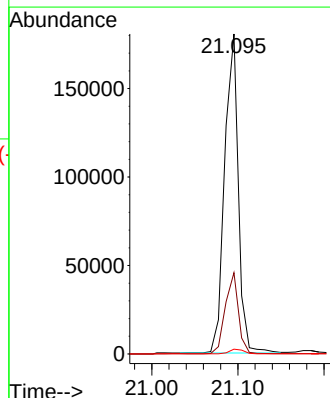
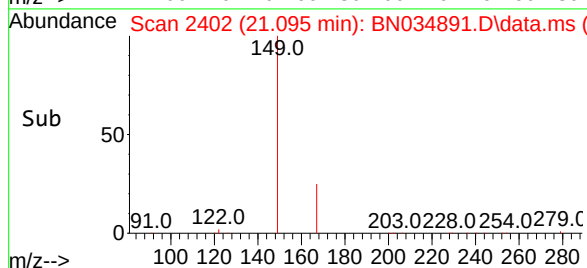
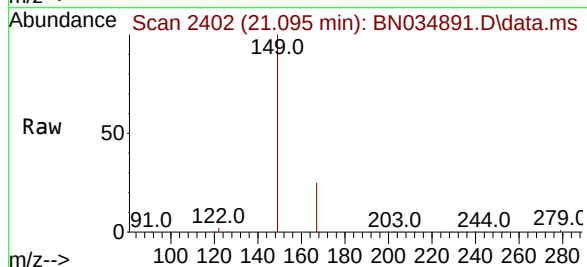
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

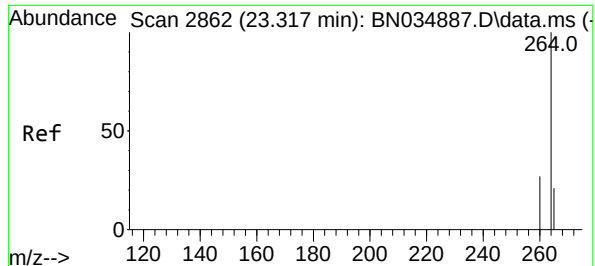
Tgt Ion:228 Resp: 302895
Ion Ratio Lower Upper
228 100
226 30.3 23.7 35.5
229 19.5 16.3 24.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 5.853 ng
RT: 21.095 min Scan# 2402
Delta R.T. 0.006 min
Lab File: BN034891.D
Acq: 07 Nov 2024 13:49

Tgt Ion:149 Resp: 198170
Ion Ratio Lower Upper
149 100
167 24.3 18.1 27.1
279 1.5 1.2 1.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.315 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN034891.D

Acq: 07 Nov 2024 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

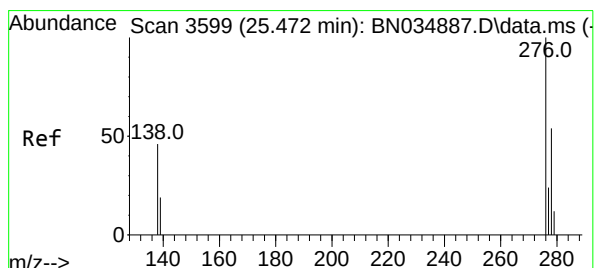
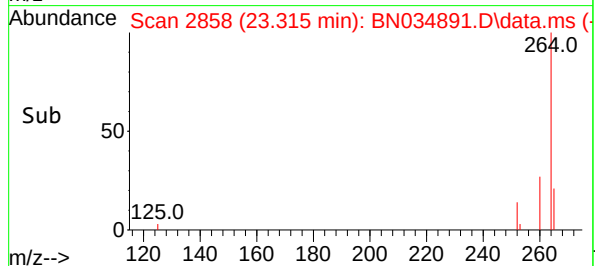
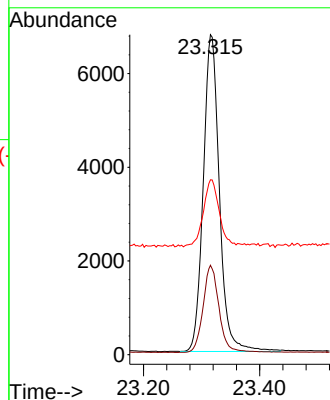
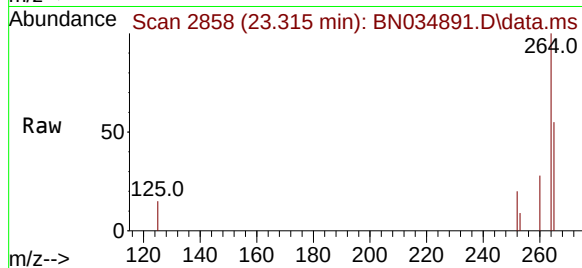
Tgt Ion:264 Resp: 13025

Ion Ratio Lower Upper

264 100

260 27.9 22.2 33.2

265 54.6 60.9 91.3#



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.008 ng

RT: 25.473 min Scan# 3596

Delta R.T. 0.001 min

Lab File: BN034891.D

Acq: 07 Nov 2024 13:49

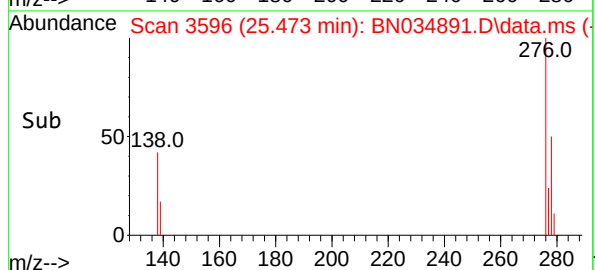
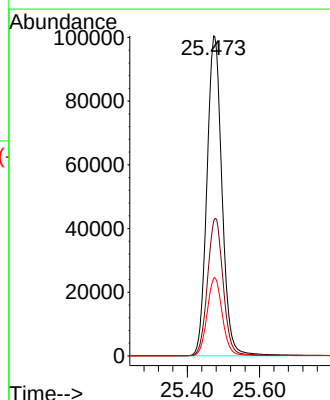
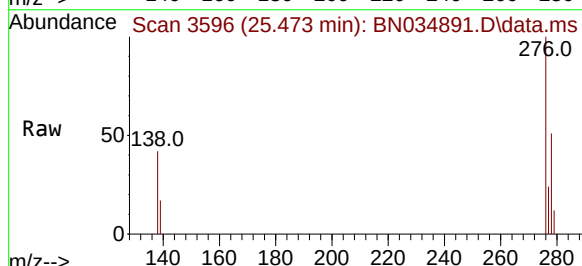
Tgt Ion:276 Resp: 290582

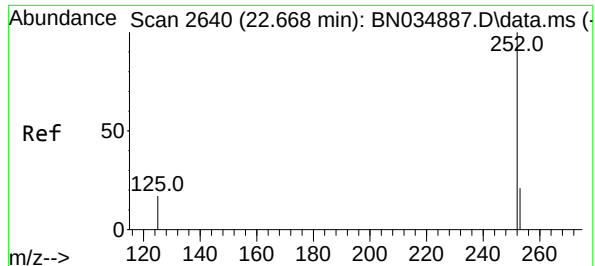
Ion Ratio Lower Upper

276 100

138 44.6 38.4 57.6

277 24.6 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 5.071 ng

RT: 22.672 min Scan# 2638

Delta R.T. 0.004 min

Lab File: BN034891.D

Acq: 07 Nov 2024 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

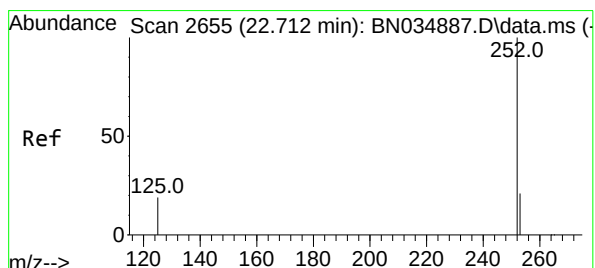
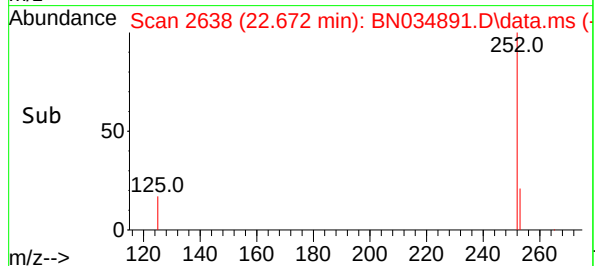
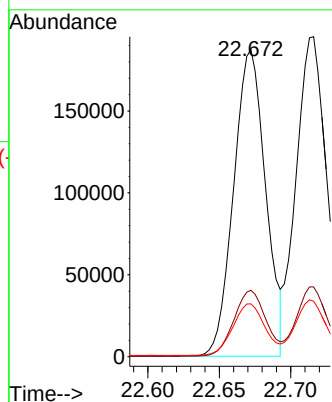
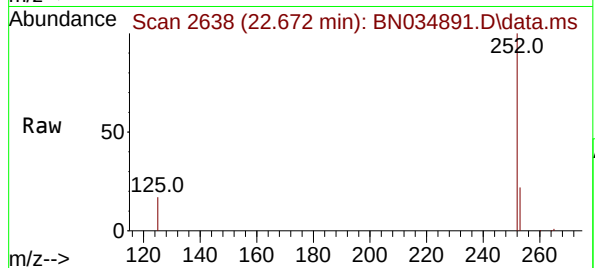
Tgt Ion:252 Resp: 290476

Ion Ratio Lower Upper

252 100

253 21.6 19.4 29.2

125 17.2 21.4 32.2#



#38

Benzo(k)fluoranthene

Concen: 5.006 ng

RT: 22.716 min Scan# 2653

Delta R.T. 0.004 min

Lab File: BN034891.D

Acq: 07 Nov 2024 13:49

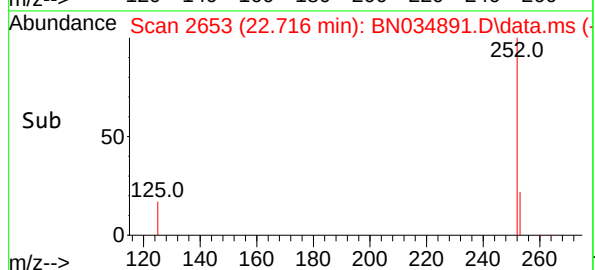
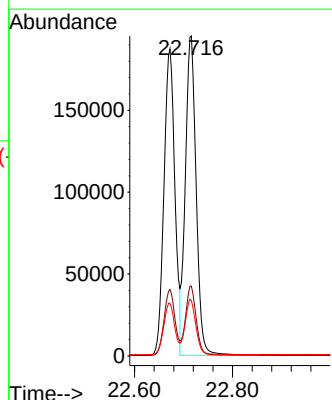
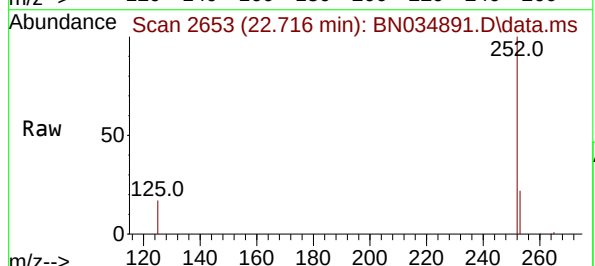
Tgt Ion:252 Resp: 298841

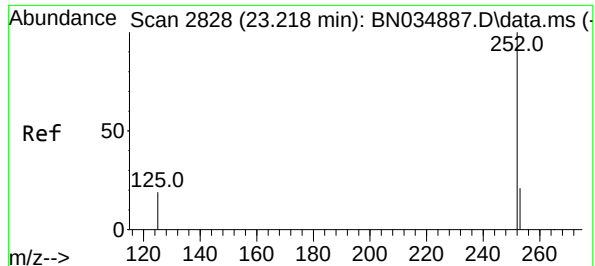
Ion Ratio Lower Upper

252 100

253 21.8 19.8 29.8

125 17.4 22.6 33.8#





#39

Benzo(a)pyrene

Concen: 5.345 ng

RT: 23.222 min Scan# 21

Delta R.T. 0.004 min

Lab File: BN034891.D

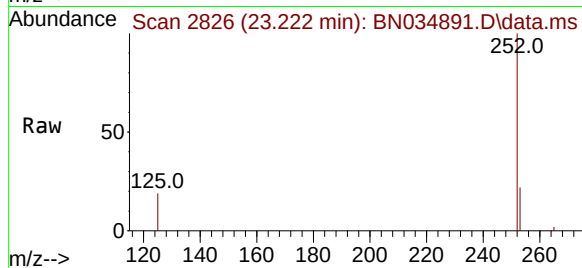
Acq: 07 Nov 2024 13:49

Instrument :

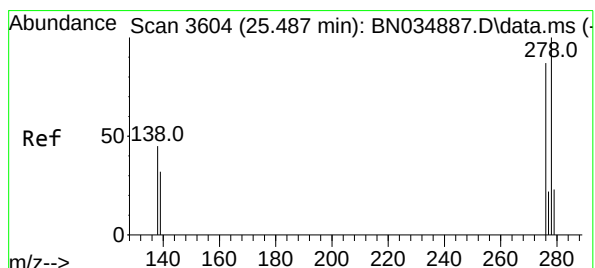
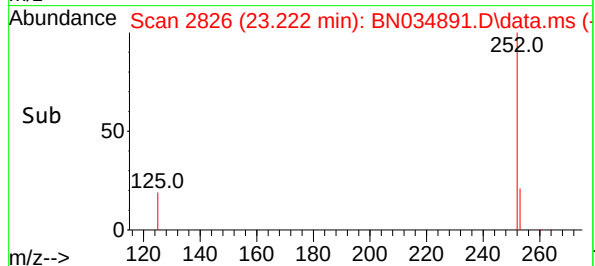
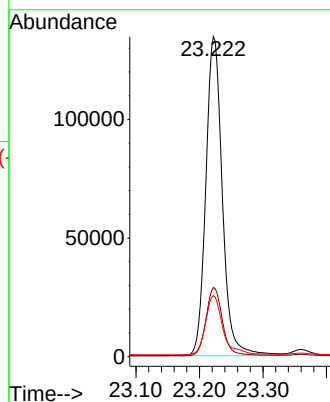
BNA_N

ClientSampleId :

SSTDICC5.0



Tgt Ion:252	Resp:	242944
Ion Ratio	Lower	Upper
252	100	
253	21.6	21.4 32.2
125	19.1	27.8 41.6#



#40

Dibenzo(a,h)anthracene

Concen: 5.027 ng

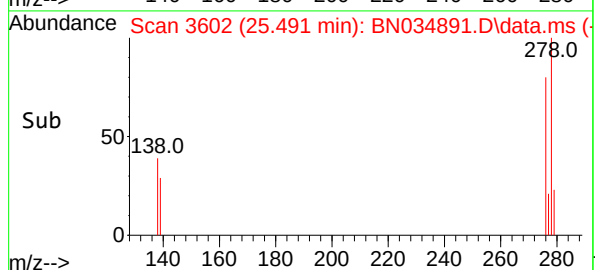
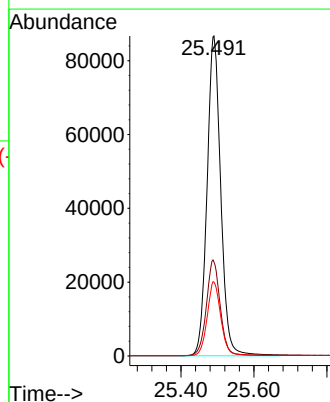
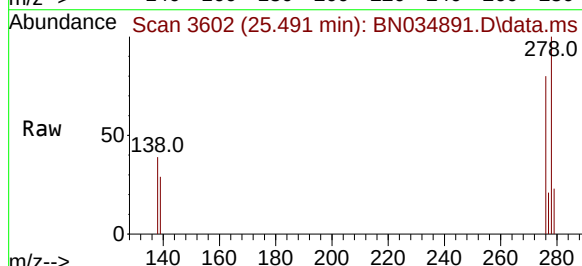
RT: 25.491 min Scan# 3602

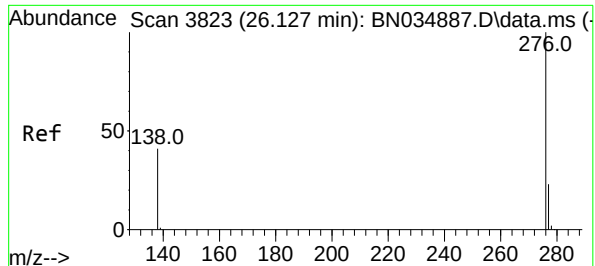
Delta R.T. 0.004 min

Lab File: BN034891.D

Acq: 07 Nov 2024 13:49

Tgt Ion:278	Resp:	225693
Ion Ratio	Lower	Upper
278	100	
139	29.4	27.2 40.8
279	23.1	21.4 32.0





#41

Benzo(g,h,i)perylene

Concen: 4.936 ng

RT: 26.131 min Scan# 3

Delta R.T. 0.004 min

Lab File: BN034891.D

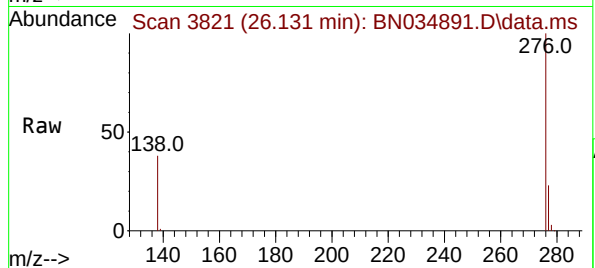
Acq: 07 Nov 2024 13:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



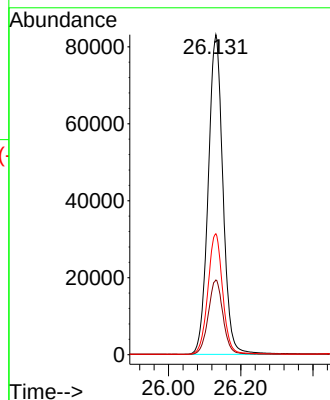
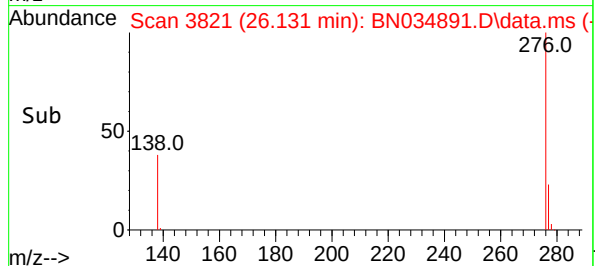
Tgt Ion:276 Resp: 235238

Ion Ratio Lower Upper

276 100

277 23.3 20.2 30.2

138 37.8 33.9 50.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
 Data File : BN034892.D
 Acq On : 07 Nov 2024 14:24
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN110724

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024

Quant Time: Nov 07 15:03:15 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 07 15:02:36 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	5596	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	16947	0.400	ng	0.00
13) Acenaphthene-d10	14.208	164	8617	0.400	ng	0.00
19) Phenanthrene-d10	16.952	188	17630	0.400	ng	# 0.00
29) Chrysene-d12	21.149	240	11730	0.400	ng	0.00
35) Perylene-d12	23.315	264	10292	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.199	112	5527	0.354	ng	0.00
5) Phenol-d6	6.752	99	7207	0.348	ng	0.00
8) Nitrobenzene-d5	8.707	82	4552	0.345	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	8763	0.379	ng	0.00
14) 2,4,6-Tribromophenol	15.698	330	865	0.383	ng	0.00
15) 2-Fluorobiphenyl	12.829	172	13055	0.359	ng	0.00
27) Fluoranthene-d10	18.990	212	15225	0.383	ng	0.00
31) Terphenyl-d14	19.598	244	8465	0.385	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.184	88	2461	0.348	ng	Qvalue 99
3) n-Nitrosodimethylamine	3.487	42	3231	0.339	ng	# 96
6) bis(2-Chloroethyl)ether	7.012	93	6507	0.364	ng	97
9) Naphthalene	10.394	128	17745	0.377	ng	99
10) Hexachlorobutadiene	10.682	225	2830	0.378	ng	# 98
12) 2-Methylnaphthalene	12.011	142	10990	0.382	ng	100
16) Acenaphthylene	13.919	152	14368	0.346	ng	100
17) Acenaphthene	14.272	154	10248	0.356	ng	97
18) Fluorene	15.255	166	12934	0.361	ng	99
20) 4,6-Dinitro-2-methylph...	15.341	198	537	0.349	ng	# 66
21) 4-Bromophenyl-phenylether	16.157	248	3565	0.379	ng	# 88
22) Hexachlorobenzene	16.269	284	4413	0.390	ng	95
23) Atrazine	16.430	200	2461	0.361	ng	# 93
24) Pentachlorophenol	16.604	266	1024	0.373	ng	99
25) Phenanthrene	16.989	178	20264	0.375	ng	100
26) Anthracene	17.088	178	17075	0.366	ng	99
28) Fluoranthene	19.017	202	21837	0.384	ng	99
30) Pyrene	19.380	202	21794	0.367	ng	100
32) Benzo(a)anthracene	21.131	228	16875	0.369	ng	99
33) Chrysene	21.185	228	18729	0.387	ng	99
34) Bis(2-ethylhexyl)phtha...	21.086	149	8553m	0.326	ng	
36) Indeno(1,2,3-cd)pyrene	25.470	276	15123	0.330	ng	98
37) Benzo(b)fluoranthene	22.669	252	17108	0.378	ng	97
38) Benzo(k)fluoranthene	22.713	252	16927	0.360	ng	95
39) Benzo(a)pyrene	23.219	252	12517	0.349	ng	94
40) Dibenzo(a,h)anthracene	25.491	278	11726	0.331	ng	97
41) Benzo(g,h,i)perylene	26.125	276	13002	0.345	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
Data File : BN034892.D
Acq On : 07 Nov 2024 14:24
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN110724

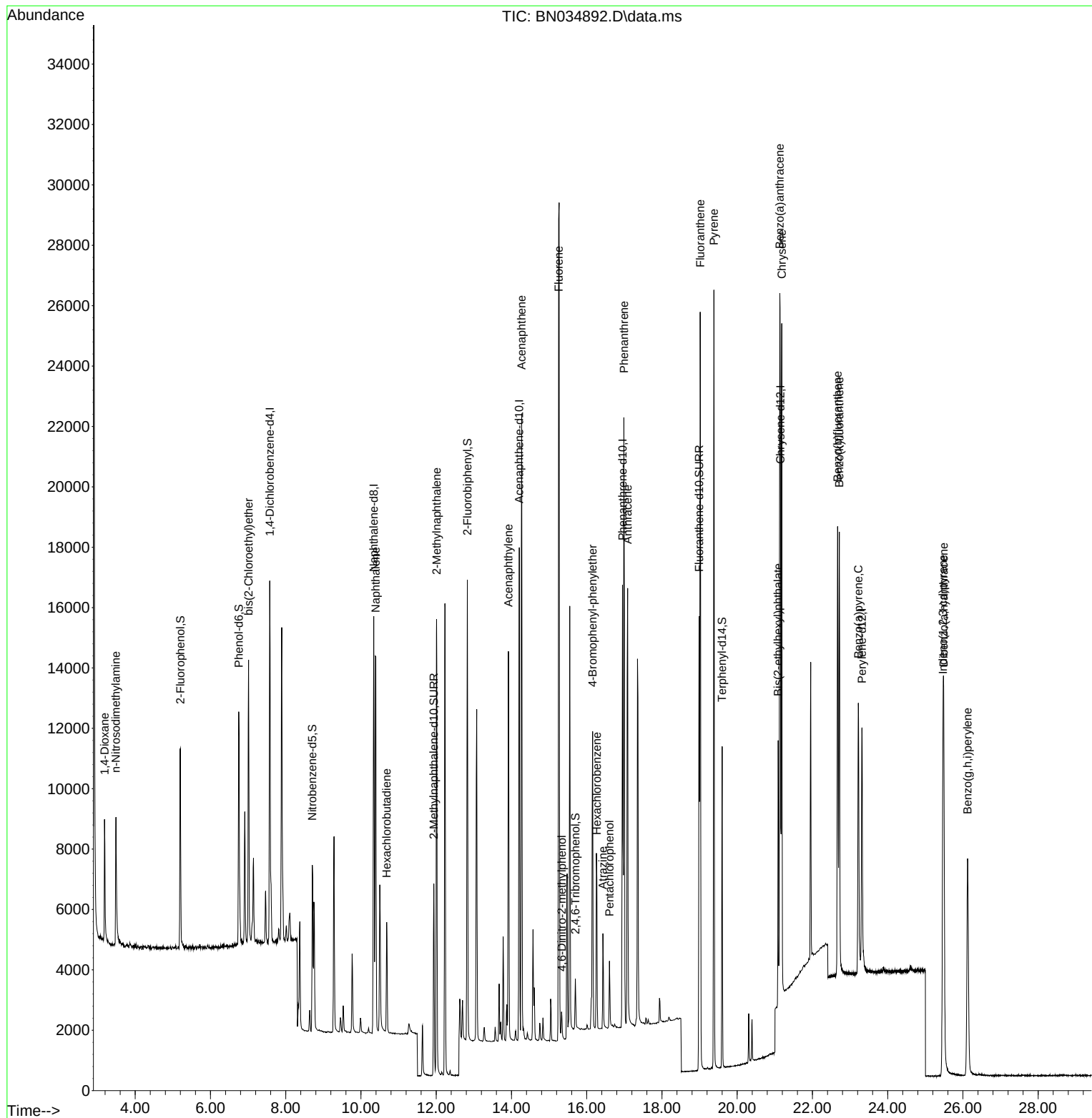
Manual Integrations

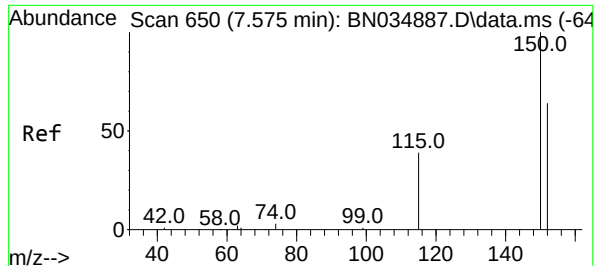
APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024

Quant Time: Nov 07 15:03:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 2024
Response via : Initial Calibration





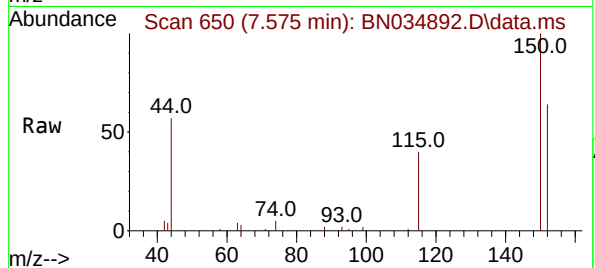
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Instrument :

BNA_N

ClientSampleId :

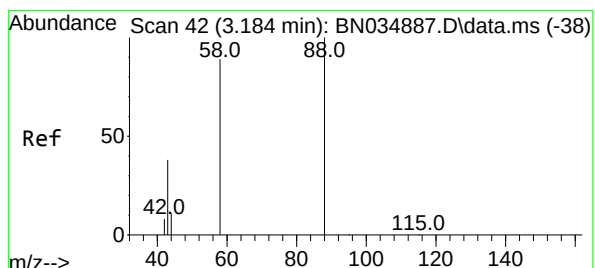
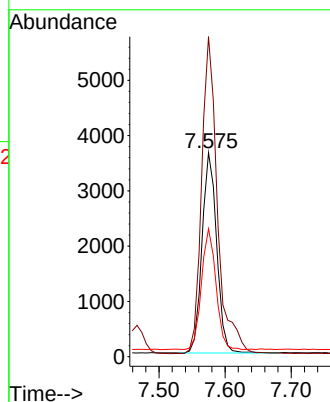
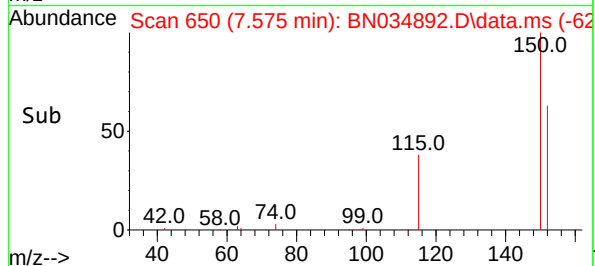
ICVBN110724



Tgt Ion:152 Resp: 5590
Ion Ratio Lower Upper
152 100
150 156.8 124.4 186.6
115 62.6 50.5 75.7

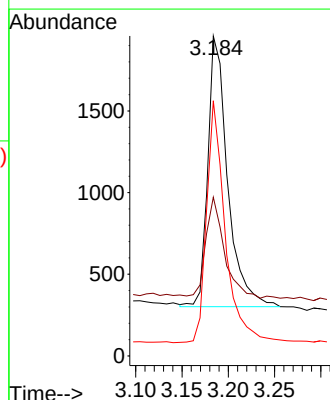
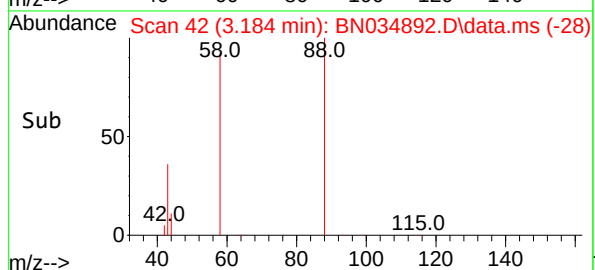
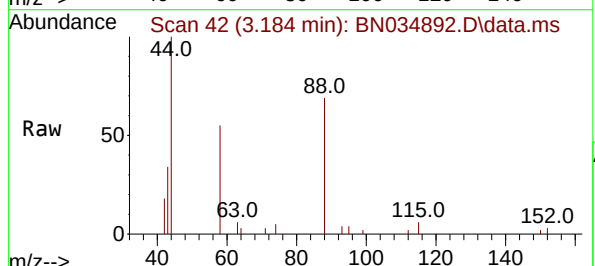
Manual Integrations
APPROVED

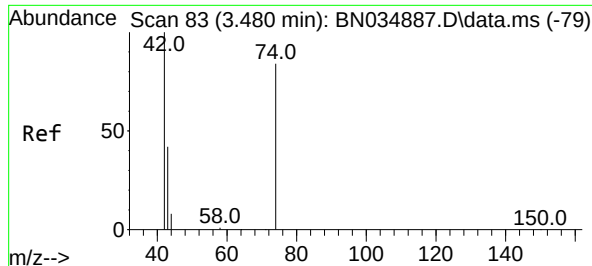
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#2
1,4-Dioxane
Concen: 0.348 ng
RT: 3.184 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

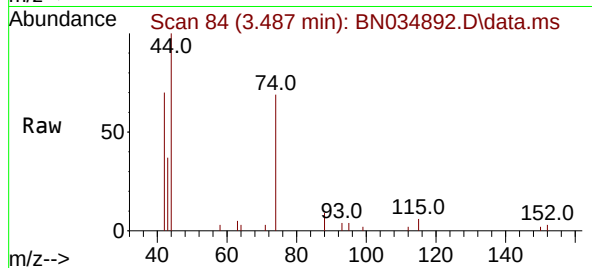
Tgt Ion: 88 Resp: 2461
Ion Ratio Lower Upper
88 100
43 35.6 28.2 42.2
58 84.3 67.1 100.7





#3
n-Nitrosodimethylamine
Concen: 0.339 ng
RT: 3.487 min Scan# 84
Delta R.T. 0.007 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

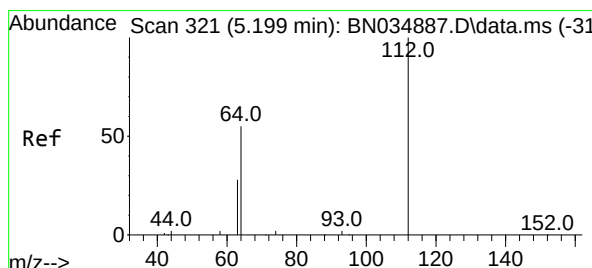
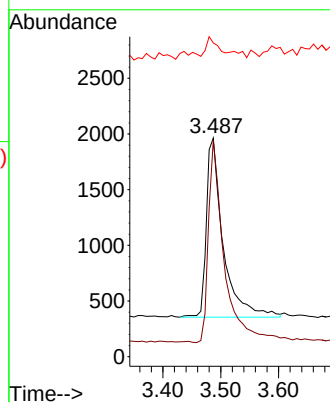
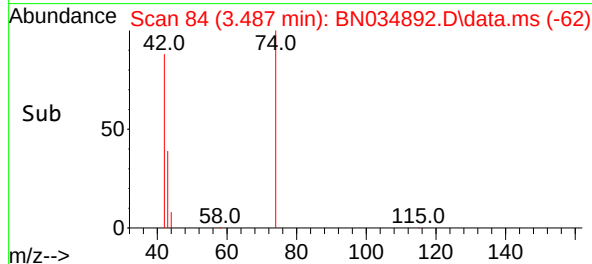
Instrument :
BNA_N
ClientSampleId :
ICVBN110724



Tgt Ion: 42 Resp: 323
Ion Ratio Lower Upper
42 100
74 107.3 83.4 125.2
44 6.9 8.6 12.8

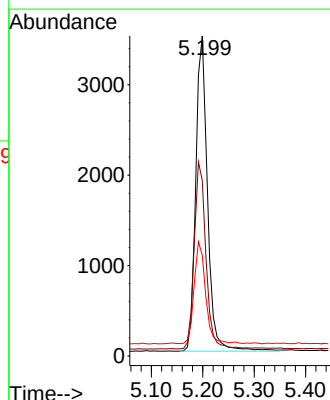
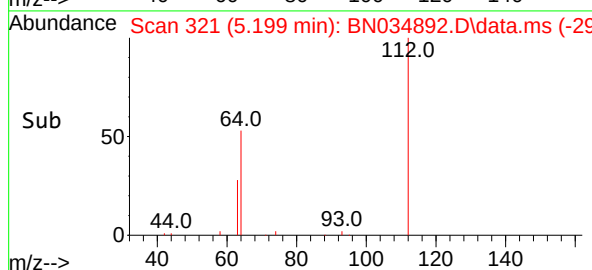
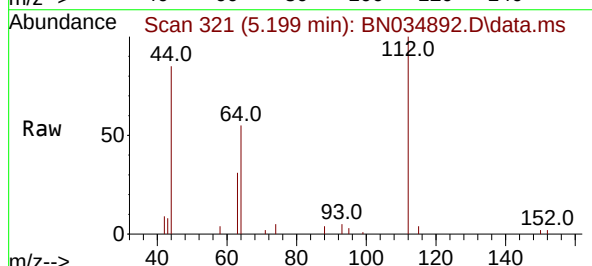
Manual Integrations
APPROVED

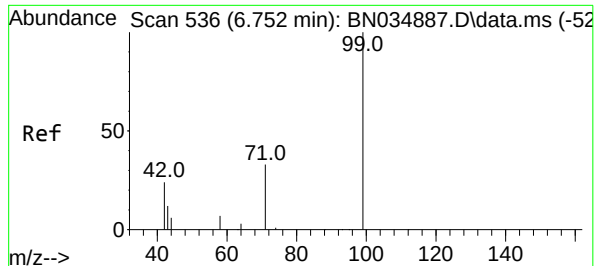
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#4
2-Fluorophenol
Concen: 0.354 ng
RT: 5.199 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:112 Resp: 5527
Ion Ratio Lower Upper
112 100
64 59.0 49.6 74.4
63 31.2 26.3 39.5





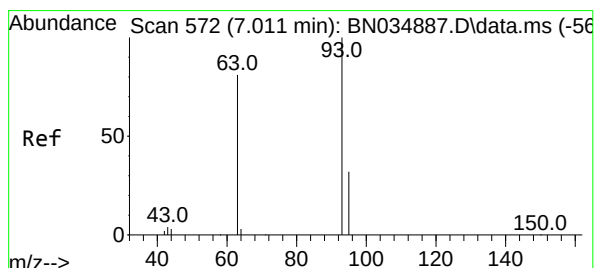
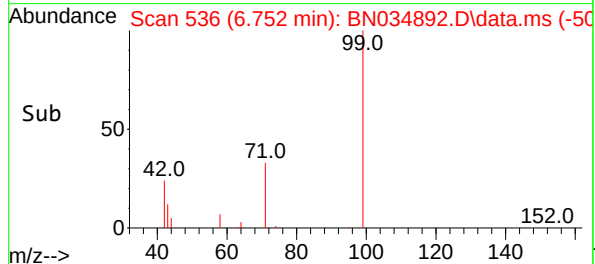
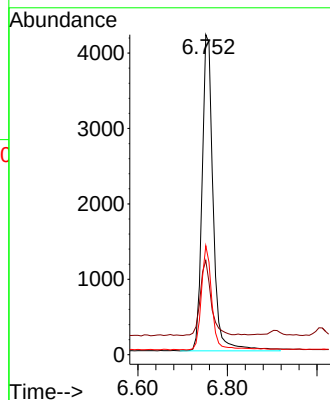
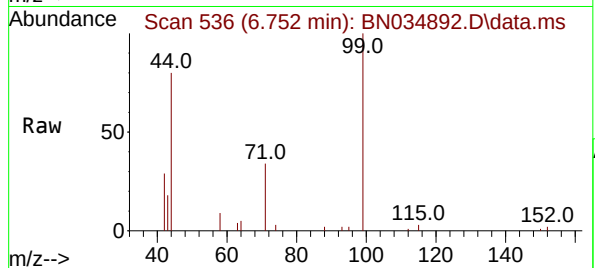
#5
Phenol-d6
Concen: 0.348 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Instrument :
BNA_N
ClientSampleId :
ICVBN110724

Tgt Ion: 99 Resp: 720
Ion Ratio Lower Upper
99 100
42 23.3 20.2 30.2
71 31.6 25.4 38.0

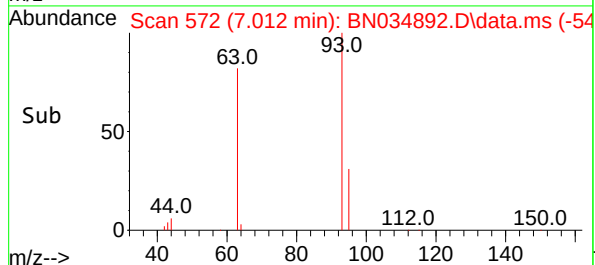
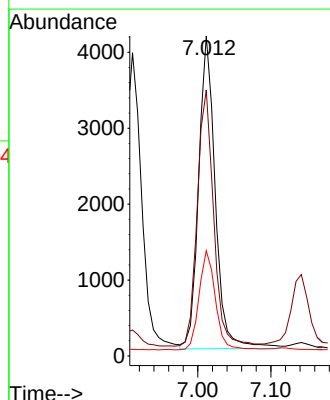
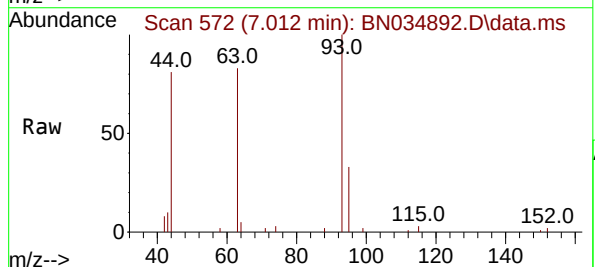
Manual Integrations
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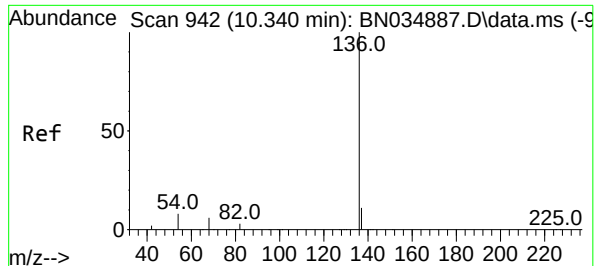
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.364 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion: 93 Resp: 6507
Ion Ratio Lower Upper
93 100
63 80.8 67.5 101.3
95 31.2 25.7 38.5





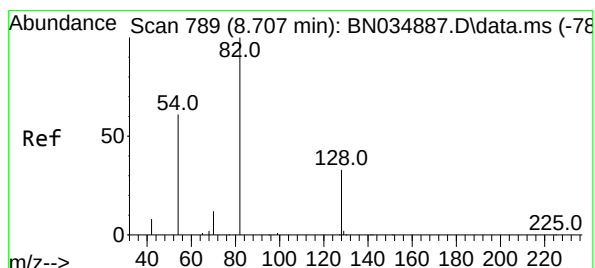
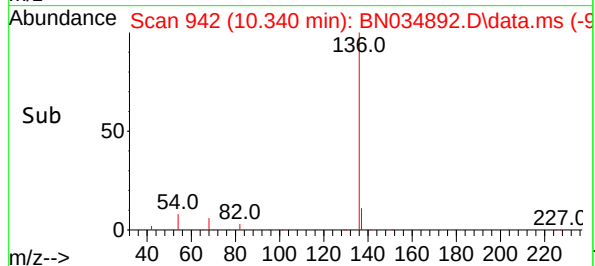
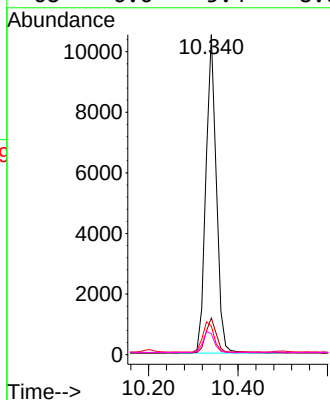
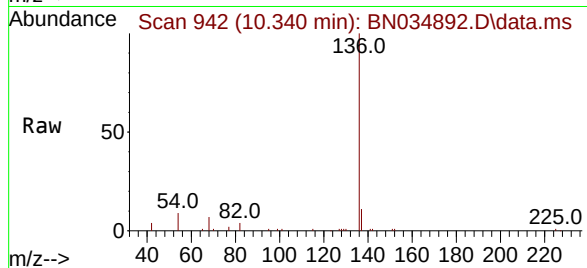
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Instrument :
BNA_N
ClientSampleId :
ICVBN110724

Tgt Ion:	136	Resp:	1694
Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.9	13.3
54	8.9	6.9	10.3
68	6.6	5.4	8.0

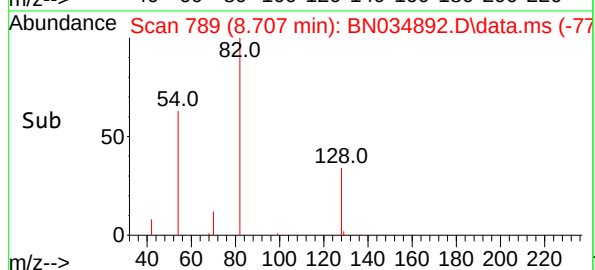
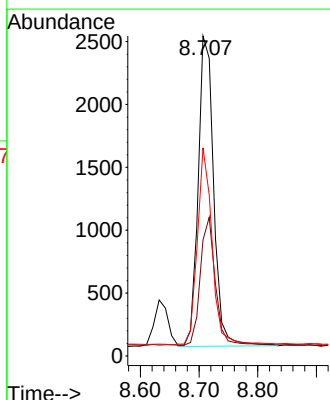
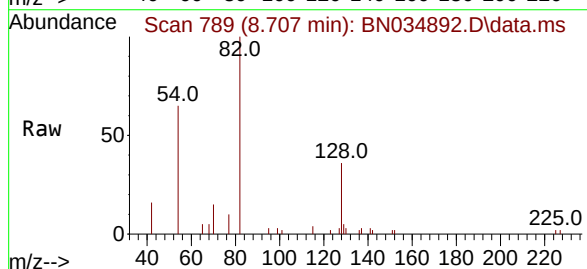
Manual Integrations
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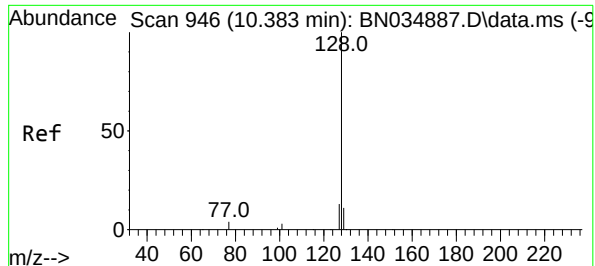
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#8
Nitrobenzene-d5
Concen: 0.345 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:	82	Resp:	4552
Ion	Ratio	Lower	Upper
82	100		
128	36.3	28.1	42.1
54	65.1	49.8	74.6





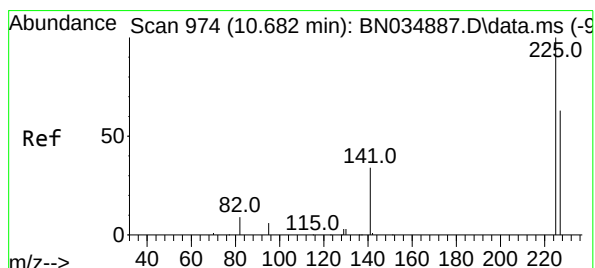
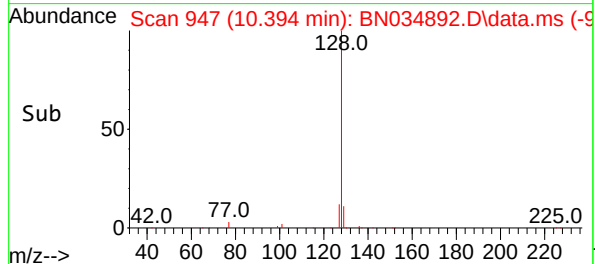
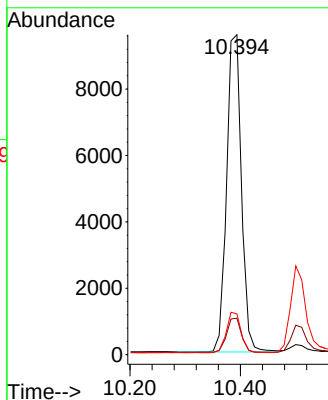
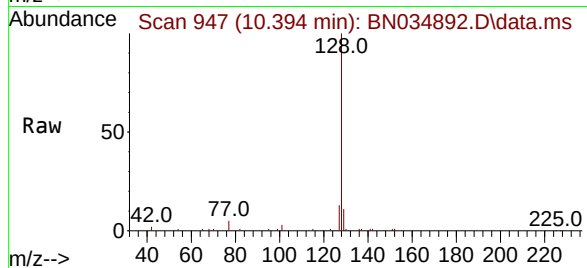
#9
Naphthalene
Concen: 0.377 ng
RT: 10.394 min Scan# 946
Delta R.T. 0.011 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Instrument :
BNA_N
ClientSampleId :
ICVBN110724

Tgt Ion:128 Resp: 1774
Ion Ratio Lower Upper
128 100
129 11.4 9.0 13.4
127 12.8 10.8 16.2

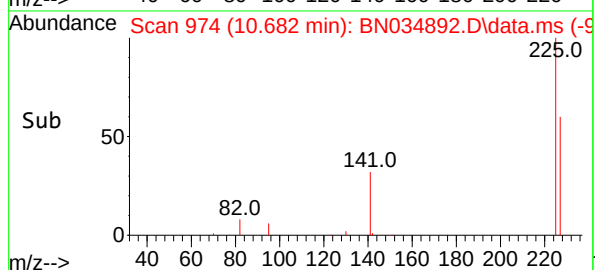
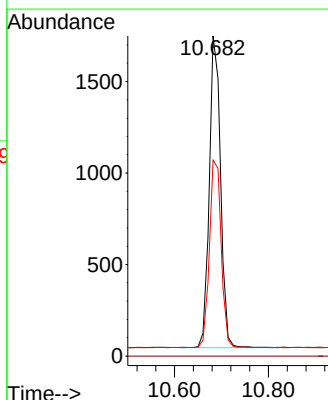
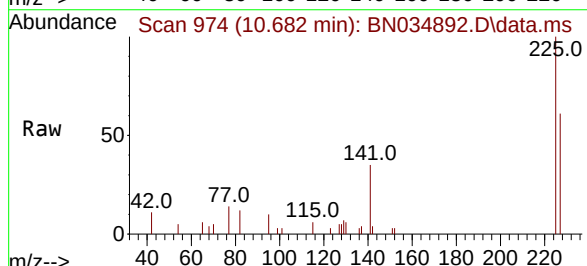
Manual Integrations
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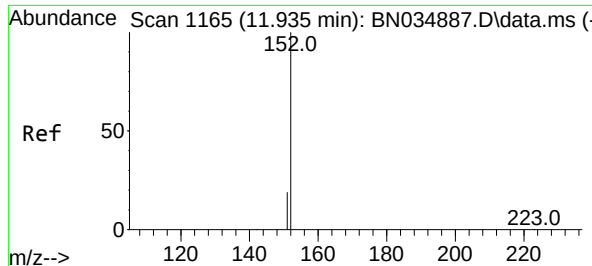
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#10
Hexachlorobutadiene
Concen: 0.378 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

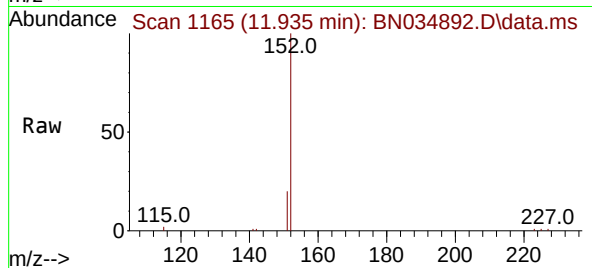
Tgt Ion:225 Resp: 2830
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 52.0 78.0





#11
2-Methylnaphthalene-d10
Concen: 0.379 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

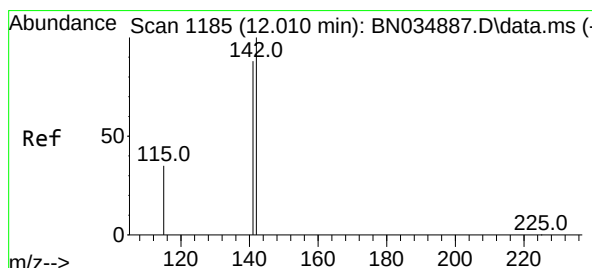
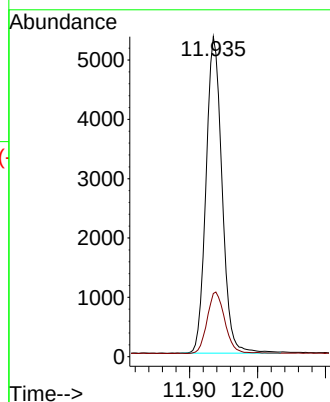
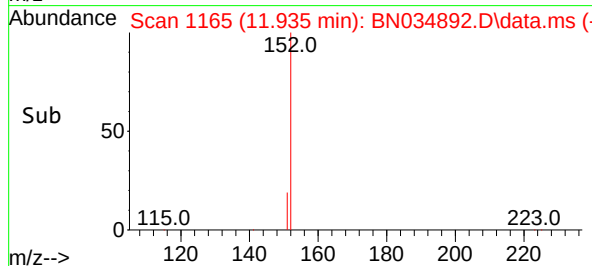
Instrument :
BNA_N
ClientSampleId :
ICVBN110724



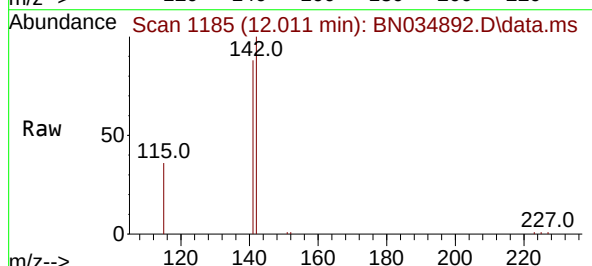
Tgt Ion:152 Resp: 876
Ion Ratio Lower Upper
152 100
151 21.4 17.1 25.7

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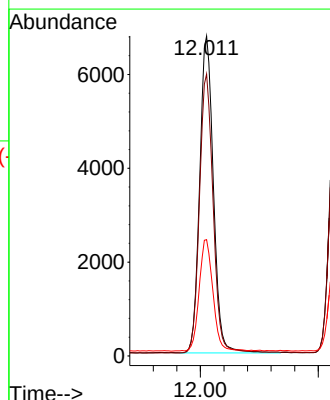
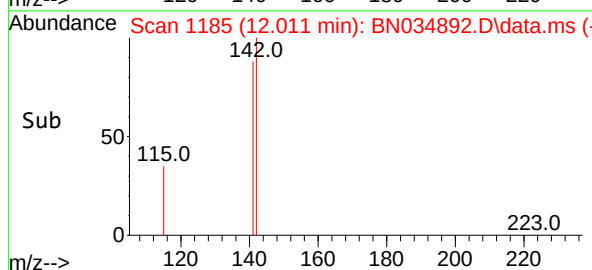
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024

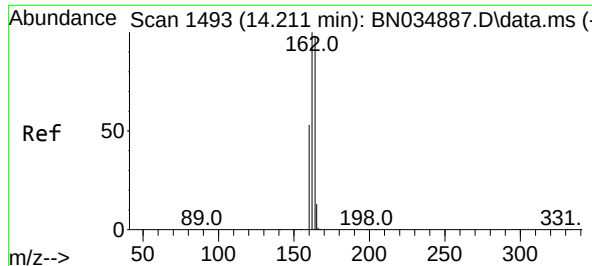


#12
2-Methylnaphthalene
Concen: 0.382 ng
RT: 12.011 min Scan# 1185
Delta R.T. 0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24



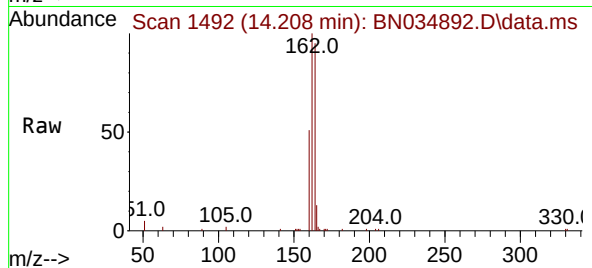
Tgt Ion:142 Resp: 10990
Ion Ratio Lower Upper
142 100
141 88.1 70.5 105.7
115 36.3 29.4 44.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.208 min Scan# 1492
Delta R.T. -0.003 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

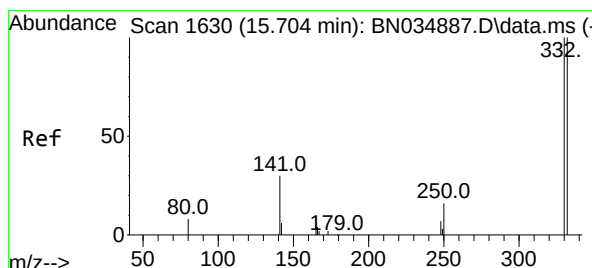
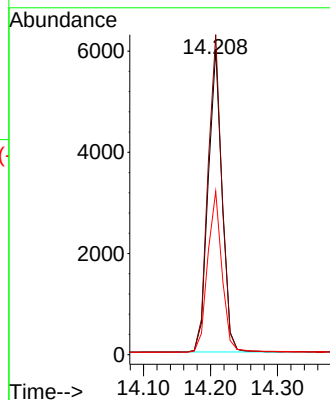
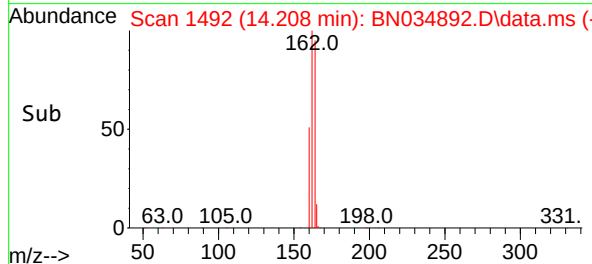
Instrument :
BNA_N
ClientSampleId :
ICVBN110724



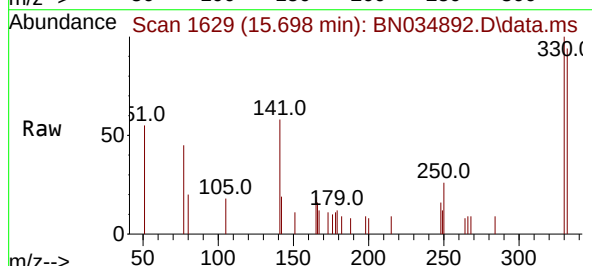
Tgt Ion:164 Resp: 861
Ion Ratio Lower Upper
164 100
162 104.8 81.9 122.9
160 53.5 43.5 65.3

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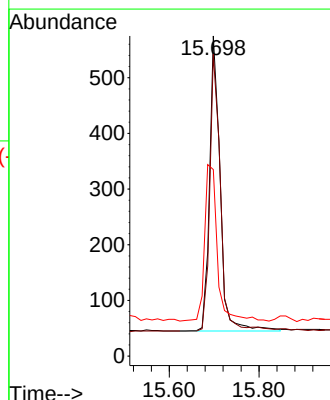
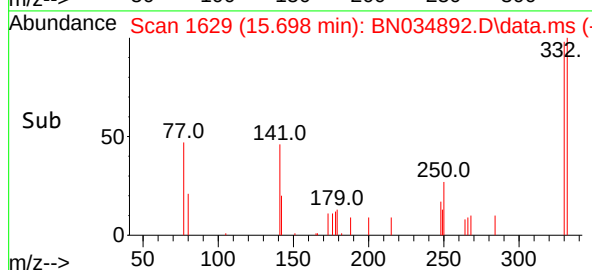
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024

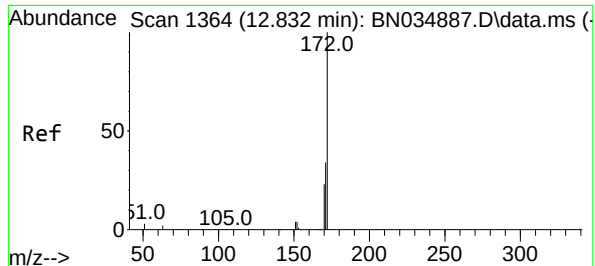


#14
2,4,6-Tribromophenol
Concen: 0.383 ng
RT: 15.698 min Scan# 1629
Delta R.T. -0.006 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24



Tgt Ion:330 Resp: 865
Ion Ratio Lower Upper
330 100
332 91.7 77.1 115.7
141 62.7 54.1 81.1





#15
2-Fluorobiphenyl
Concen: 0.359 ng
RT: 12.829 min Scan# 1363
Delta R.T. -0.004 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Instrument :

BNA_N

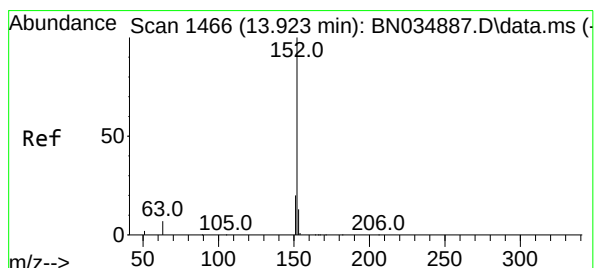
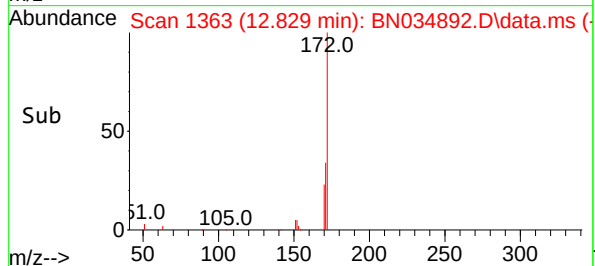
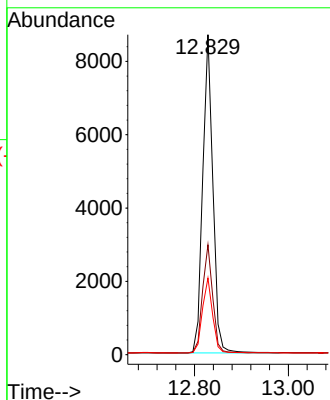
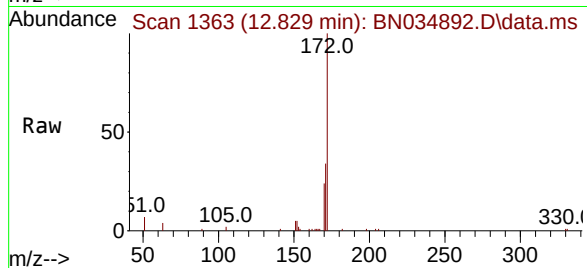
ClientSampleId :

ICVBN110724

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.3	27.9	41.9
170	23.9	19.0	28.4

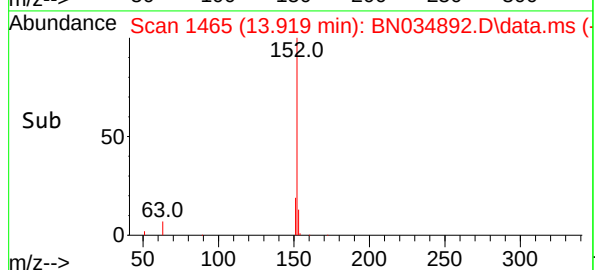
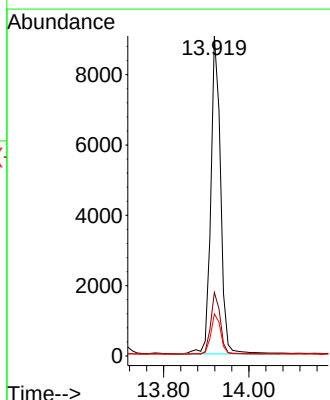
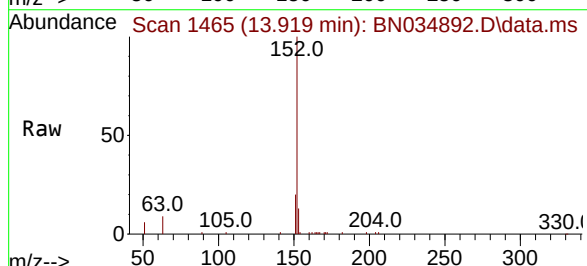
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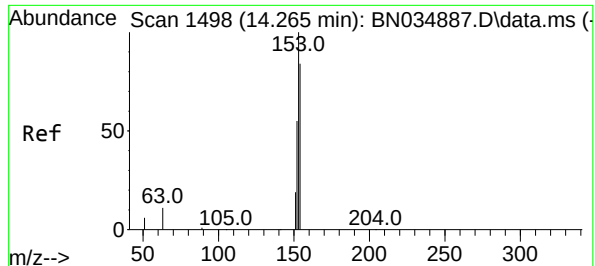
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#16
Acenaphthylene
Concen: 0.346 ng
RT: 13.919 min Scan# 1465
Delta R.T. -0.004 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.0	15.2	22.8
153	12.7	10.4	15.6





#17

Acenaphthene

Concen: 0.356 ng

RT: 14.272 min Scan# 1498

Delta R.T. 0.007 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

Instrument :

BNA_N

ClientSampleId :

ICVBN110724

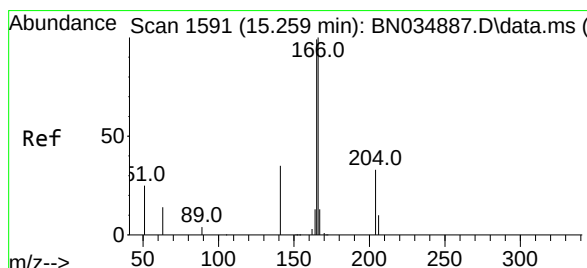
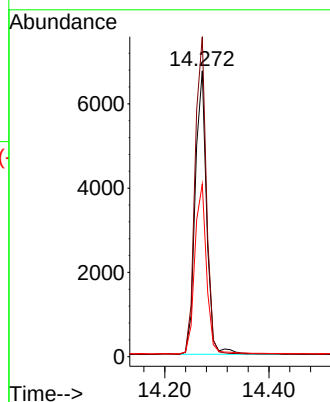
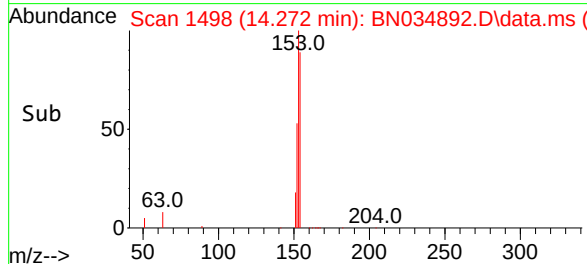
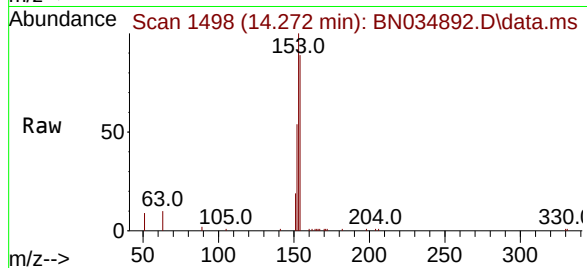
Tgt Ion:	154	Resp:	1024
Ion	Ratio	Lower	Upper
154	100		
153	111.7	92.2	138.2
152	61.6	51.1	76.7

Manual Integrations

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Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#18

Fluorene

Concen: 0.361 ng

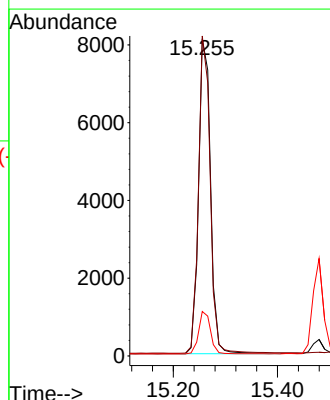
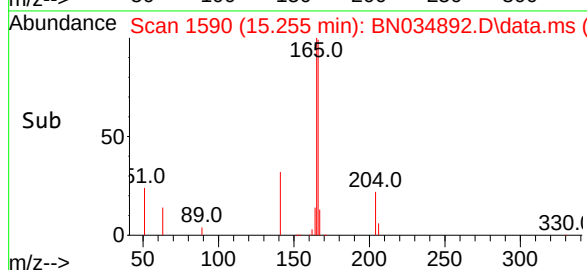
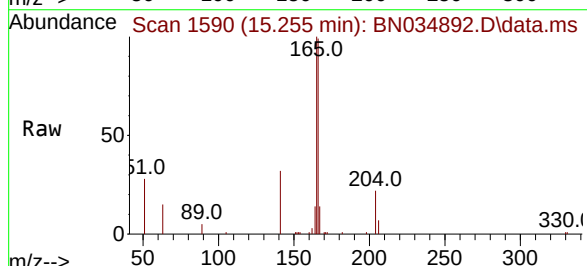
RT: 15.255 min Scan# 1590

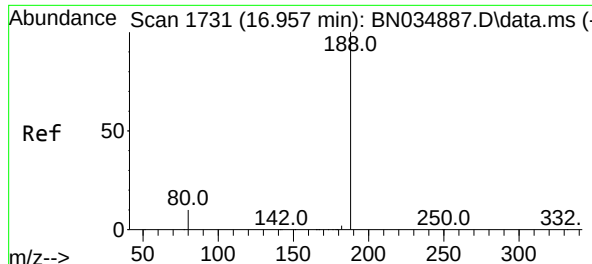
Delta R.T. -0.004 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

Tgt Ion:	166	Resp:	12934
Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.5	119.3
167	13.5	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.952 min Scan# 1731

Delta R.T. -0.005 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

Instrument :

BNA_N

ClientSampleId :

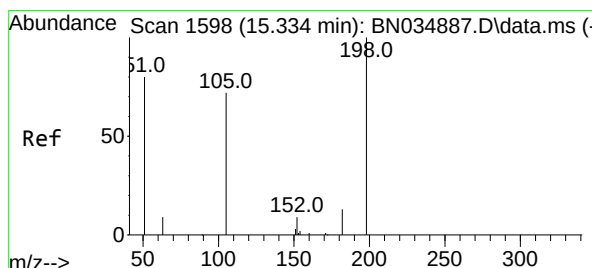
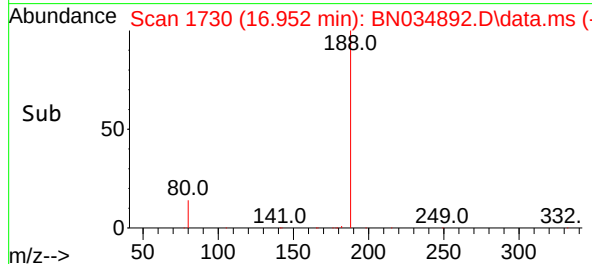
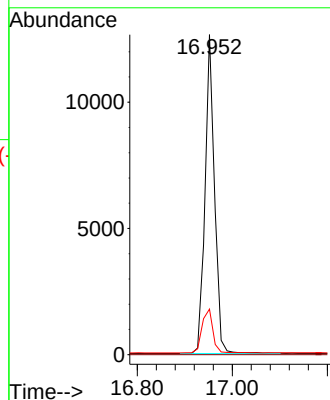
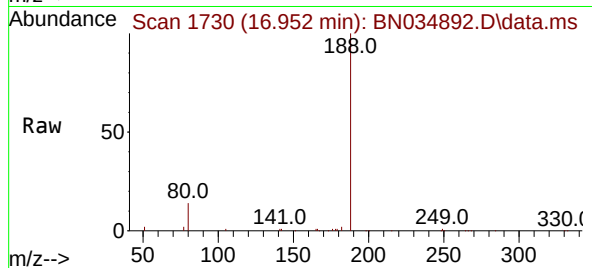
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Tgt Ion:188 Resp: 17630
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.2 8.6 12.8

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Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.349 ng

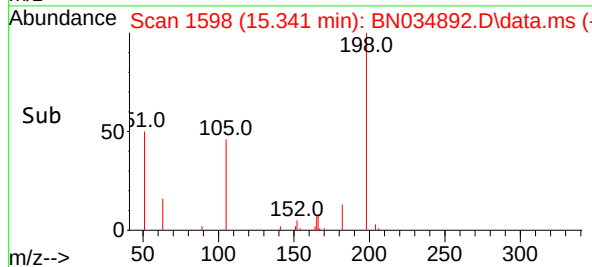
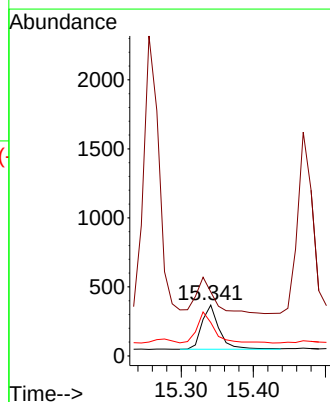
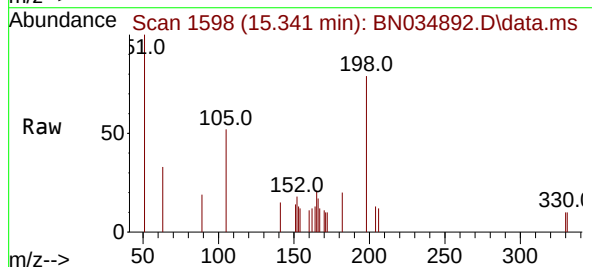
RT: 15.341 min Scan# 1598

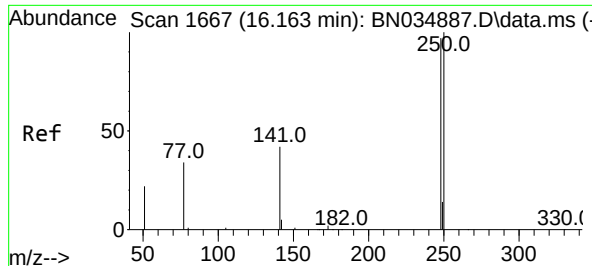
Delta R.T. 0.007 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

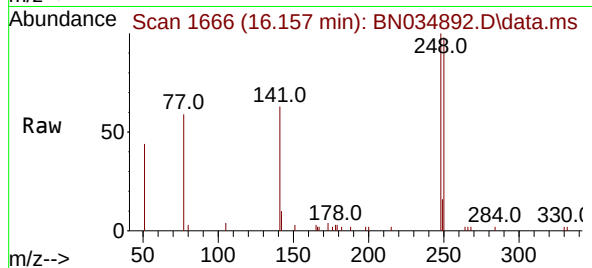
Tgt Ion:198 Resp: 537
Ion Ratio Lower Upper
198 100
51 125.8 141.8 212.8#
105 65.8 75.6 113.4#





#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.157 min Scan# 1666
Delta R.T. -0.005 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

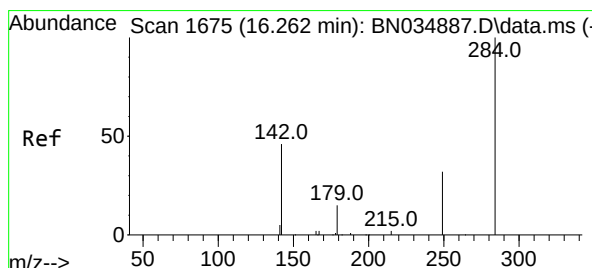
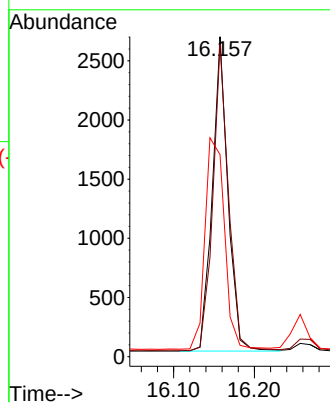
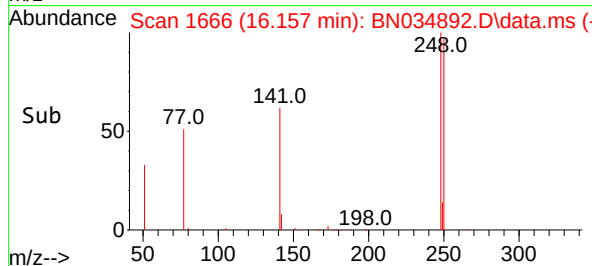
Instrument :
BNA_N
ClientSampleId :
ICVBN110724



Tgt Ion:248 Resp: 356
Ion Ratio Lower Upper
248 100
250 97.6 82.2 123.4
141 63.2 36.2 54.2

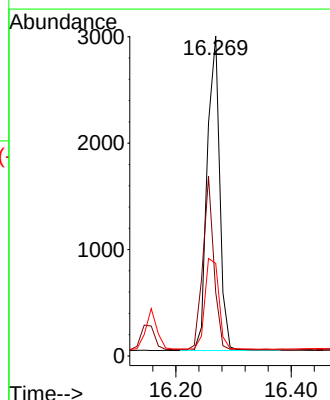
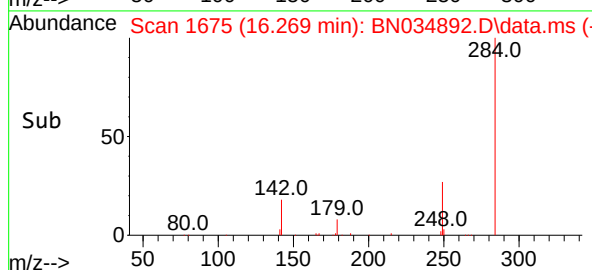
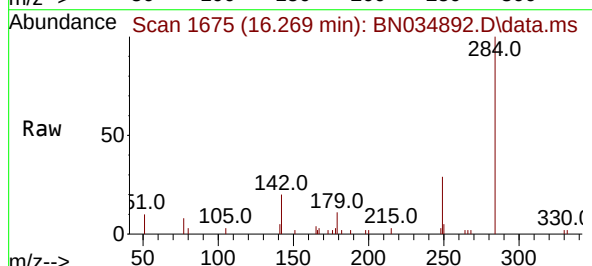
Manual Integrations
APPROVED

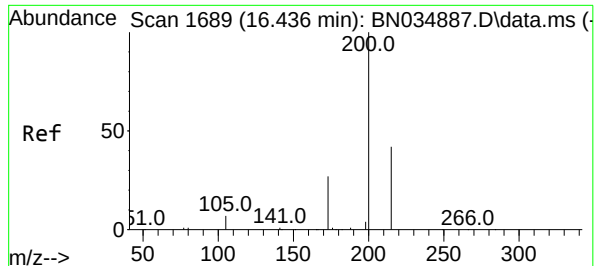
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#22
Hexachlorobenzene
Concen: 0.390 ng
RT: 16.269 min Scan# 1675
Delta R.T. 0.007 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

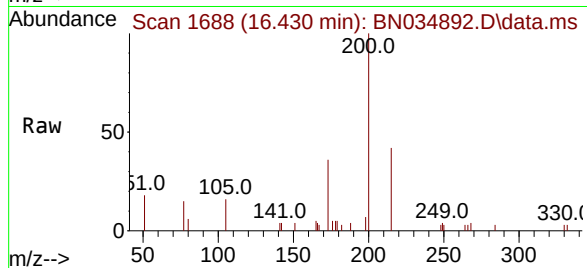
Tgt Ion:284 Resp: 4413
Ion Ratio Lower Upper
284 100
142 49.4 43.4 65.2
249 32.7 25.8 38.6





#23
Atrazine
Concen: 0.361 ng
RT: 16.430 min Scan# 1702
Delta R.T. -0.005 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

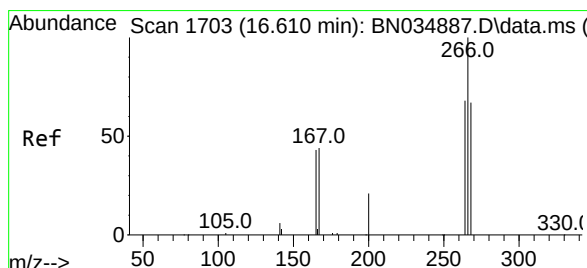
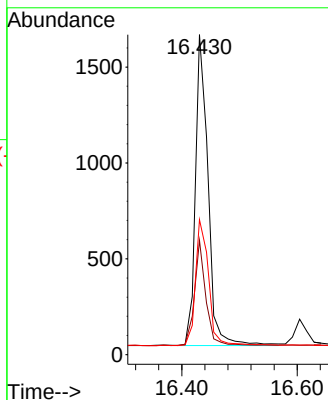
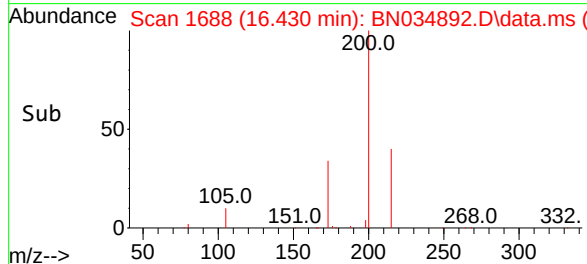
Instrument :
BNA_N
ClientSampleId :
ICVBN110724



Tgt Ion:200 Resp: 246
Ion Ratio Lower Upper
200 100
173 35.8 23.4 35.2
215 42.2 35.4 53.0

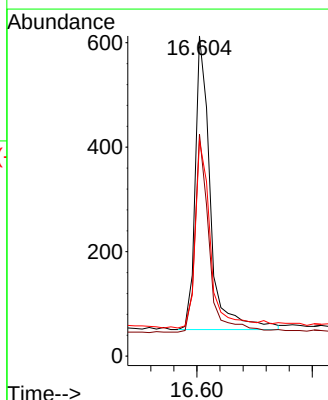
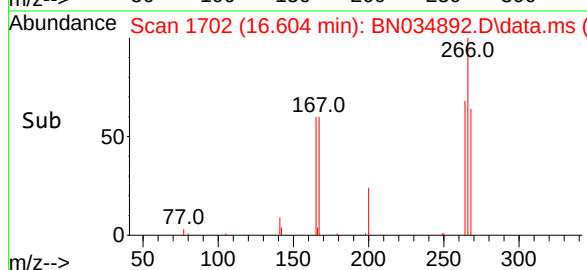
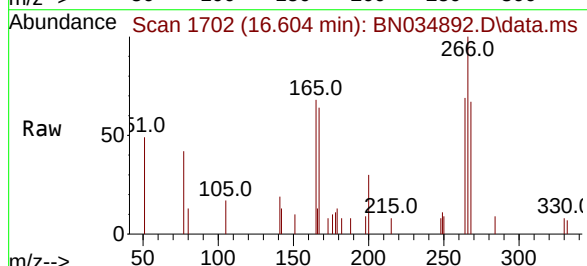
Manual Integrations
APPROVED

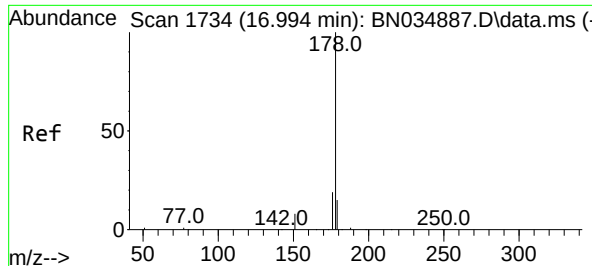
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#24
Pentachlorophenol
Concen: 0.373 ng
RT: 16.604 min Scan# 1702
Delta R.T. -0.006 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

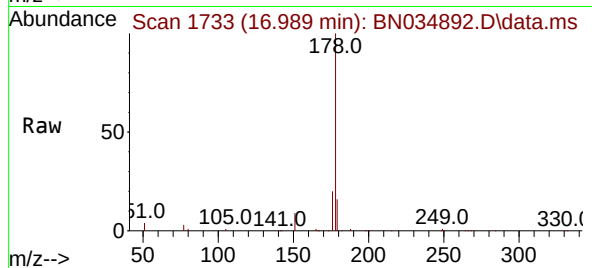
Tgt Ion:266 Resp: 1024
Ion Ratio Lower Upper
266 100
264 62.6 51.3 76.9
268 66.9 53.0 79.6





#25
Phenanthrene
Concen: 0.375 ng
RT: 16.989 min Scan# 1733
Delta R.T. -0.005 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

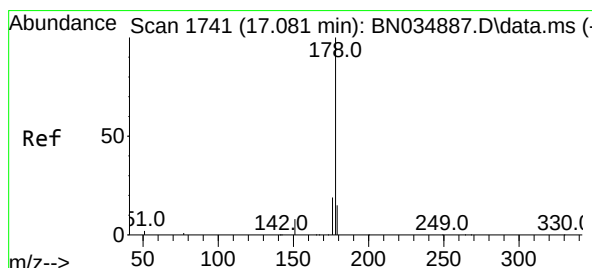
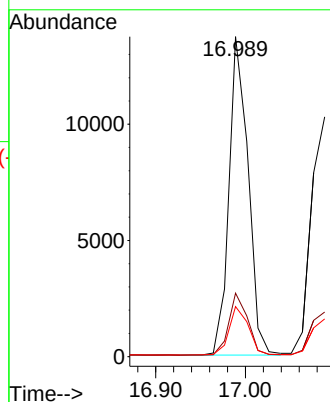
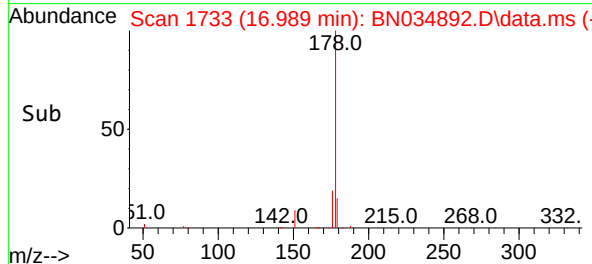
Instrument :
BNA_N
ClientSampleId :
ICVBN110724



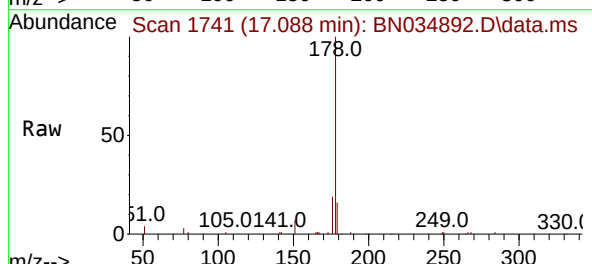
Tgt Ion:178 Resp: 20264
Ion Ratio Lower Upper
178 100
176 19.4 15.5 23.3
179 15.4 12.2 18.2

Manual Integrations
APPROVED

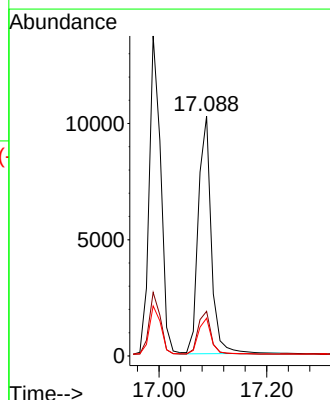
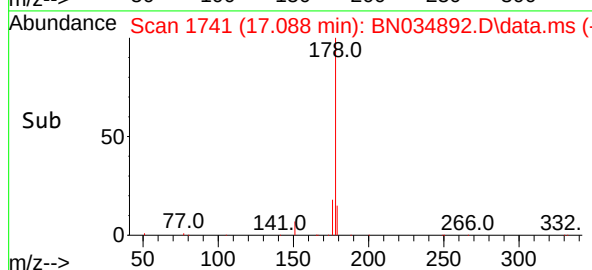
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024

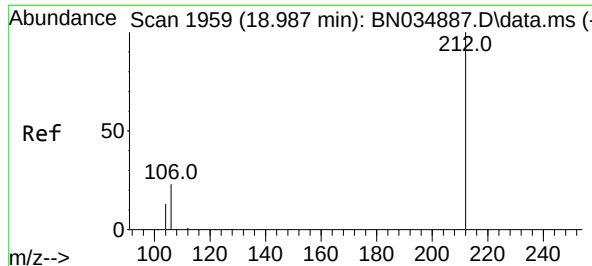


#26
Anthracene
Concen: 0.366 ng
RT: 17.088 min Scan# 1741
Delta R.T. 0.007 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24



Tgt Ion:178 Resp: 17075
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.6
179 15.0 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.383 ng

RT: 18.990 min Scan# 1958

Delta R.T. 0.002 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

Instrument :

BNA_N

ClientSampleId :

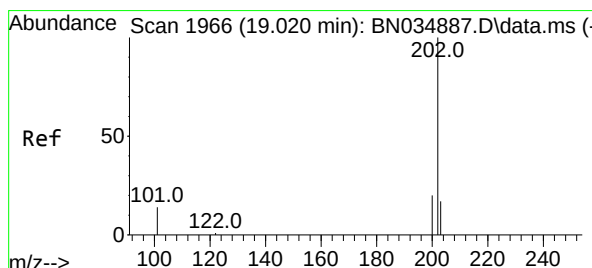
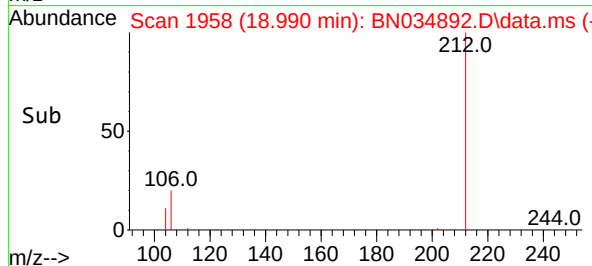
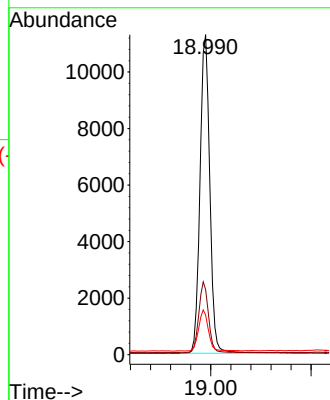
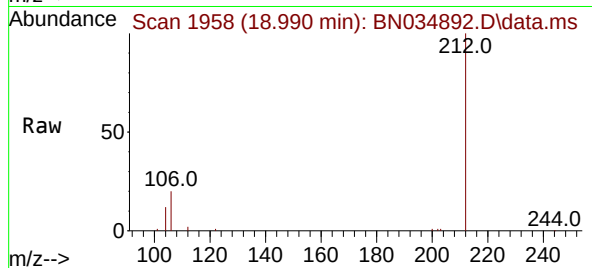
ICVBN110724

Tgt Ion:	212	Resp:	1522
Ion Ratio	Lower	Upper	
212	100		
106	22.0	18.2	27.4
104	12.8	10.6	15.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#28

Fluoranthene

Concen: 0.384 ng

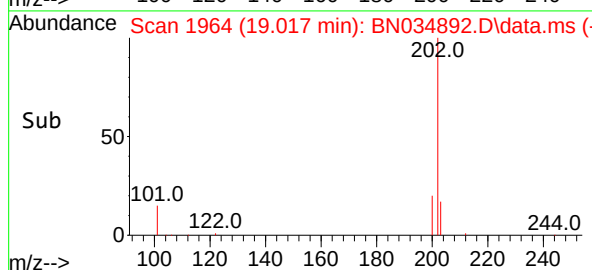
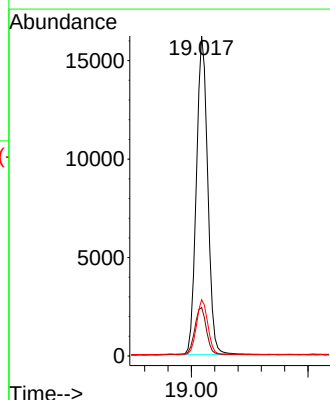
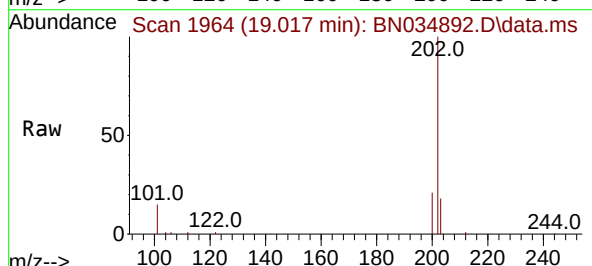
RT: 19.017 min Scan# 1964

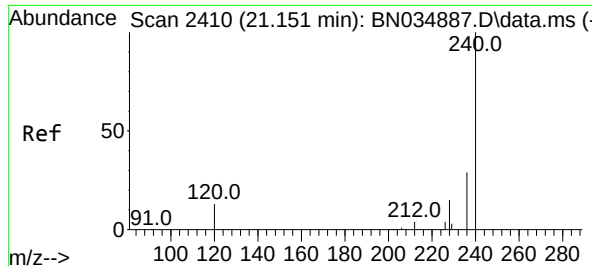
Delta R.T. -0.002 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

Tgt Ion:	202	Resp:	21837
Ion Ratio	Lower	Upper	
202	100		
101	15.5	12.7	19.1
203	17.0	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.149 min Scan# 2410

Delta R.T. -0.002 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

Instrument :

BNA_N

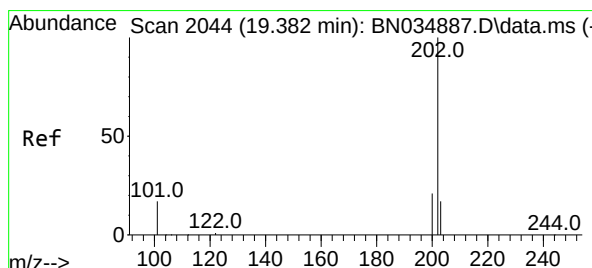
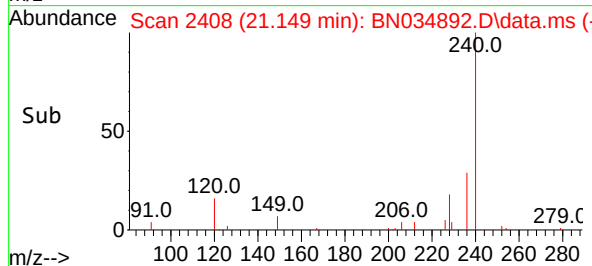
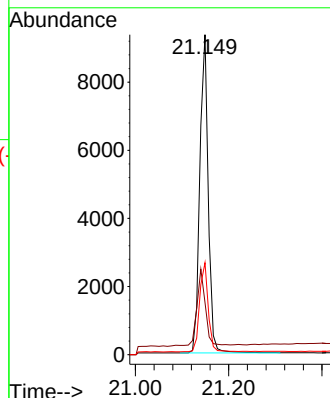
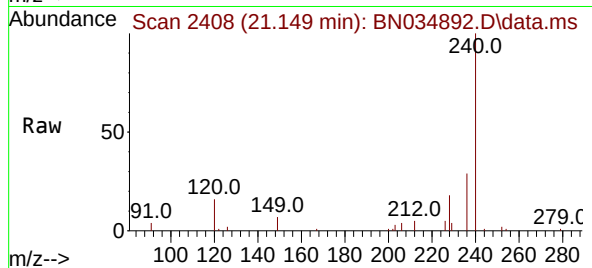
ClientSampleId :

ICVBN110724

Tgt Ion:240	Resp:	11730
Ion Ratio	Lower	Upper
240	100	
120	16.3	13.8 20.8
236	28.8	23.8 35.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#30

Pyrene

Concen: 0.367 ng

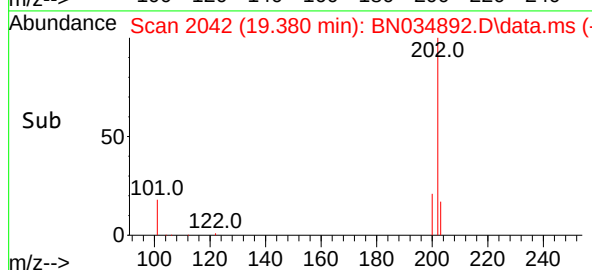
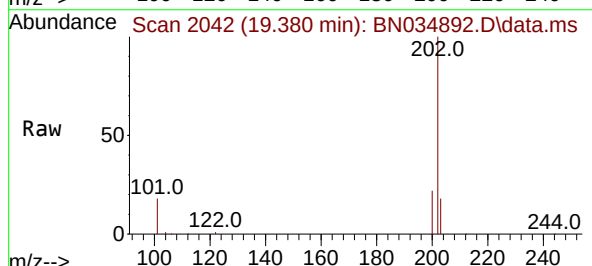
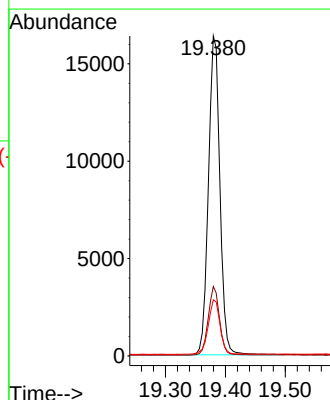
RT: 19.380 min Scan# 2042

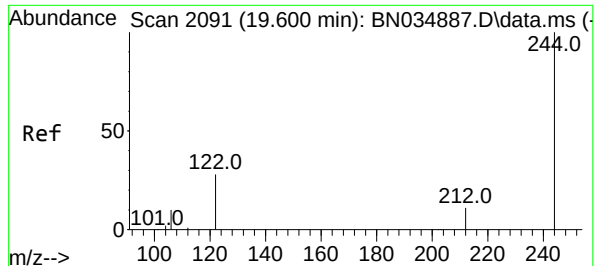
Delta R.T. -0.002 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

Tgt Ion:202	Resp:	21794
Ion Ratio	Lower	Upper
202	100	
200	21.0	16.8 25.2
203	17.6	14.1 21.1





#31
Terphenyl-d14
Concen: 0.385 ng
RT: 19.598 min Scan# 2091
Delta R.T. -0.002 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Instrument :

BNA_N

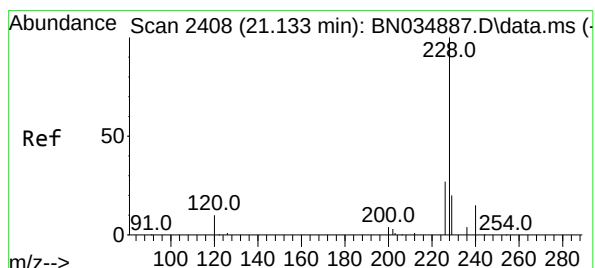
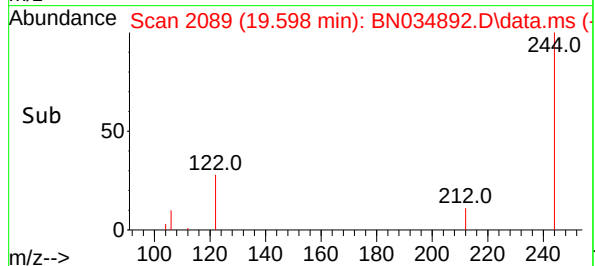
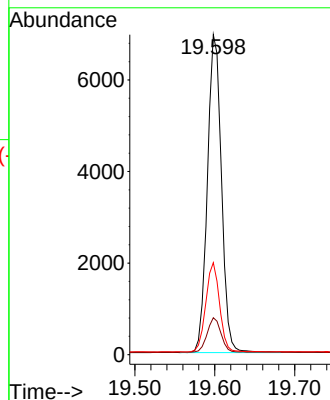
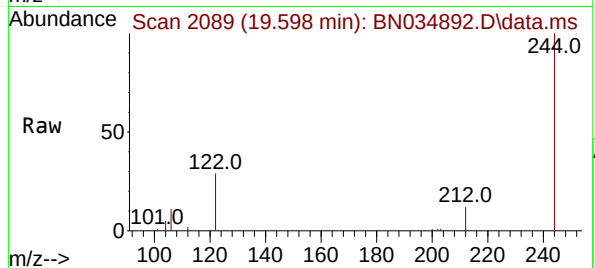
ClientSampleId :

ICVBN110724

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.5	9.4	14.0
122	28.7	23.0	34.4

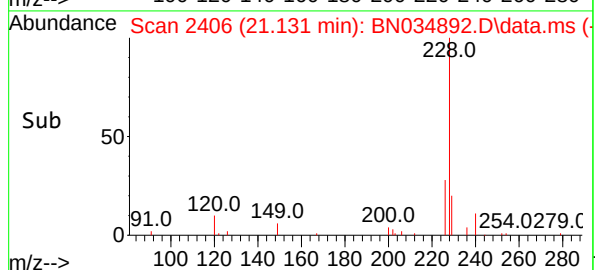
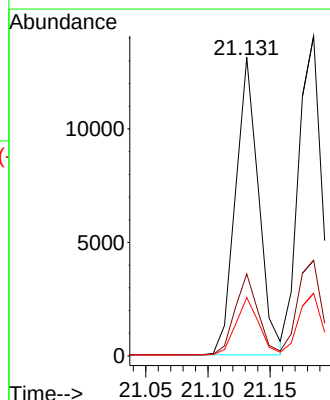
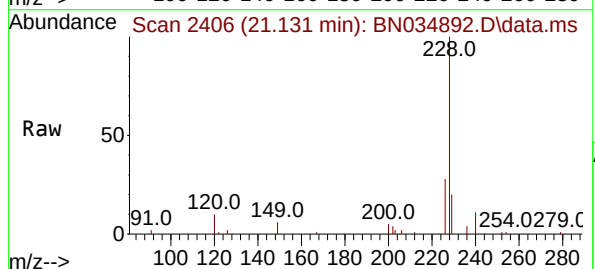
Manual Integrations
APPROVED

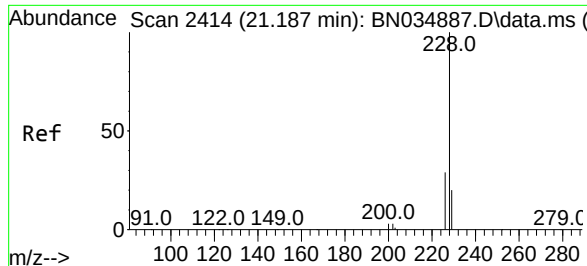
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#32
Benzo(a)anthracene
Concen: 0.369 ng
RT: 21.131 min Scan# 2406
Delta R.T. -0.002 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.2	33.2
229	19.5	16.0	24.0





#33

Chrysene

Concen: 0.387 ng

RT: 21.185 min Scan# 2414

Delta R.T. -0.002 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

Instrument :

BNA_N

ClientSampleId :

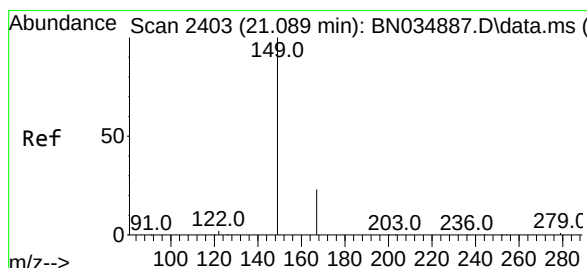
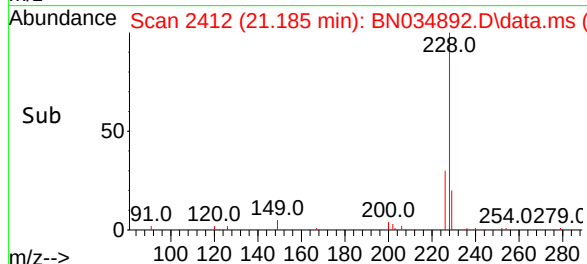
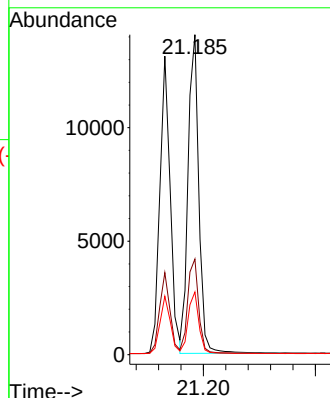
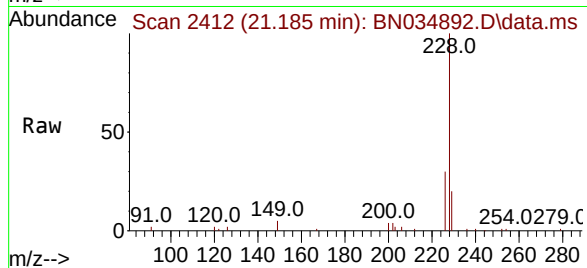
ICVBN110724

Tgt Ion:228	Resp:	18729
Ion Ratio	Lower	Upper
228	100	
226	29.9	23.7 35.5
229	19.6	16.3 24.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.326 ng m

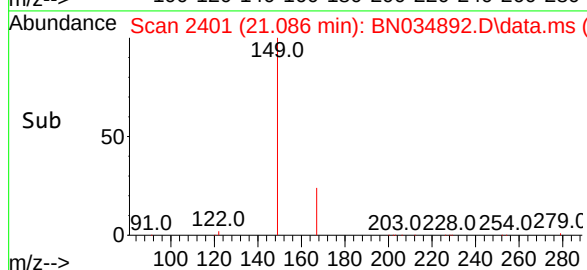
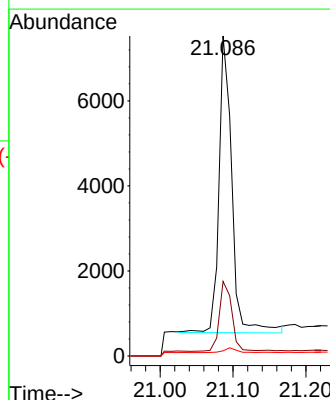
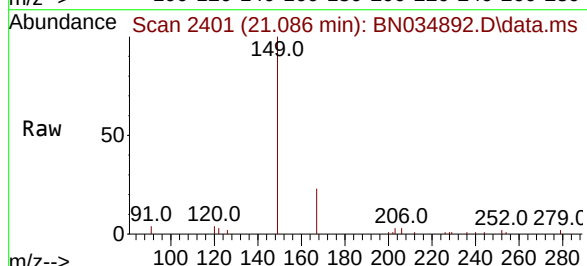
RT: 21.086 min Scan# 2401

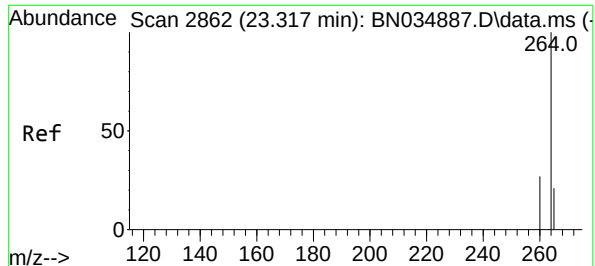
Delta R.T. -0.003 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

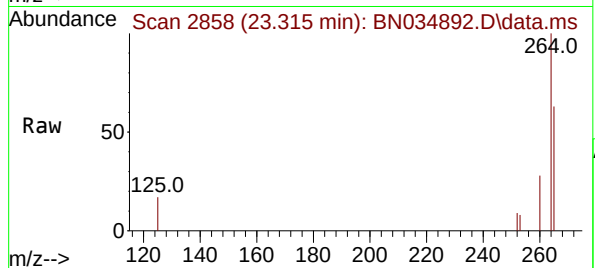
Tgt Ion:149	Resp:	8553
Ion Ratio	Lower	Upper
149	100	
167	22.8	18.1 27.1
279	1.6	1.2 1.8





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.315 min Scan# 2862
Delta R.T. -0.002 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

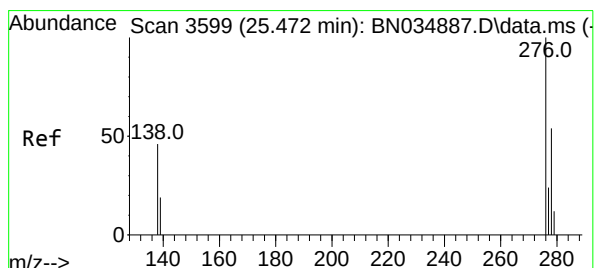
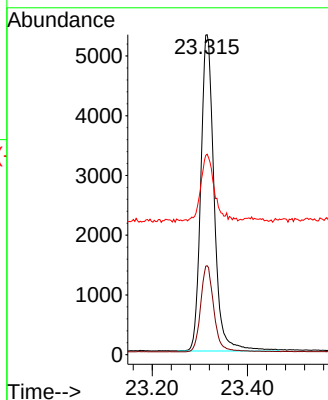
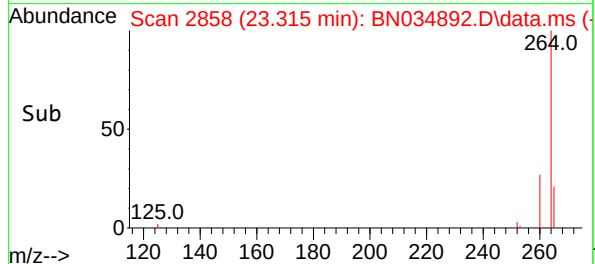
Instrument :
BNA_N
ClientSampleId :
ICVBN110724



Tgt Ion:264 Resp: 1029
Ion Ratio Lower Upper
264 100
260 27.8 22.2 33.2
265 62.6 60.9 91.3

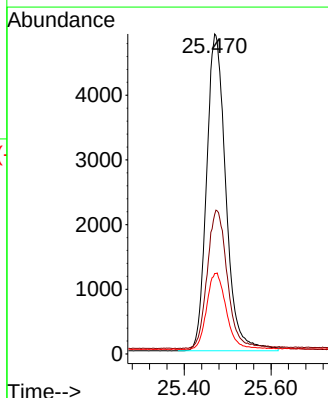
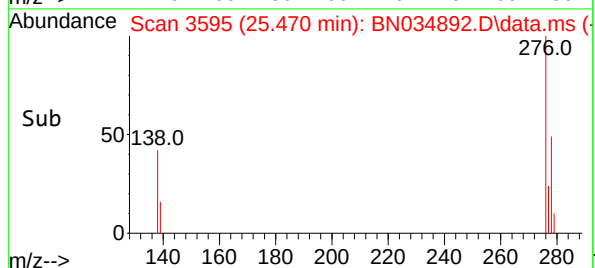
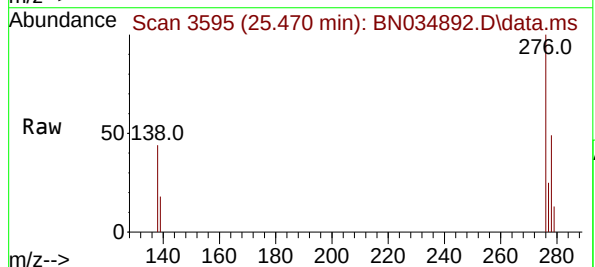
Manual Integrations
APPROVED

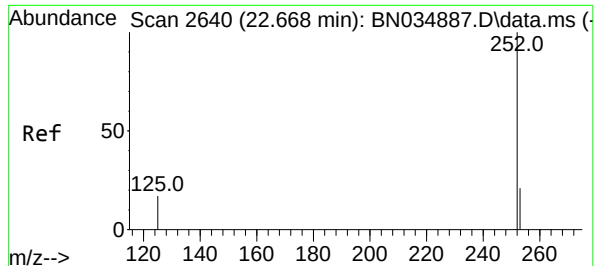
Reviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.330 ng
RT: 25.470 min Scan# 3595
Delta R.T. -0.002 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:276 Resp: 15123
Ion Ratio Lower Upper
276 100
138 45.7 38.4 57.6
277 24.6 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.378 ng

RT: 22.669 min Scan# 2637

Delta R.T. 0.001 min

Lab File: BN034892.D

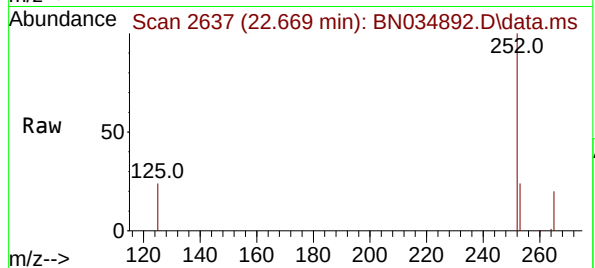
Acq: 07 Nov 2024 14:24

Instrument :

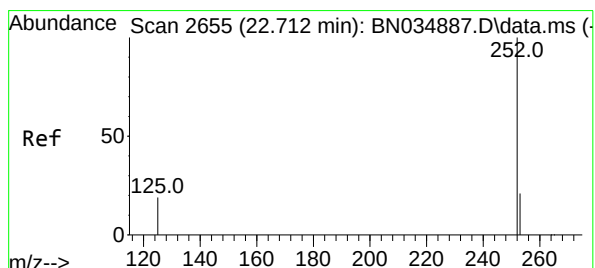
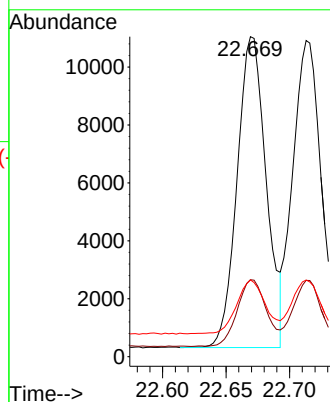
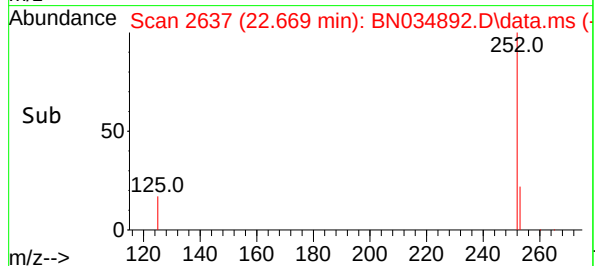
BNA_N

ClientSampleId :

ICVBN110724



Tgt Ion:	252	Resp:	17108
Ion Ratio	Lower	Upper	
252	100		
253	24.1	19.4	29.2
125	24.0	21.4	32.2

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 11/08/2024
Supervised By :mohammad ahmed 11/08/2024

#38

Benzo(k)fluoranthene

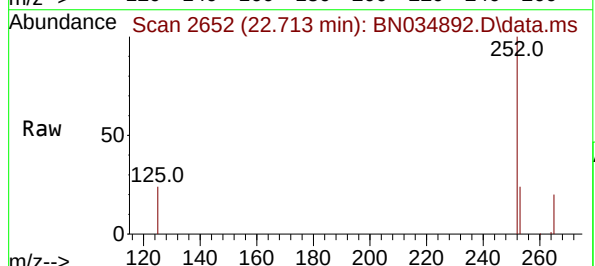
Concen: 0.360 ng

RT: 22.713 min Scan# 2652

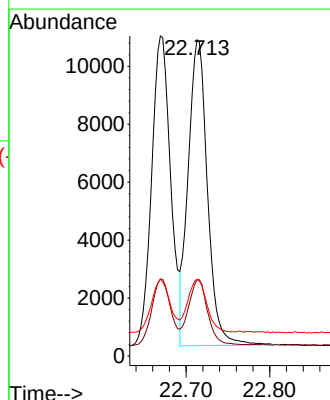
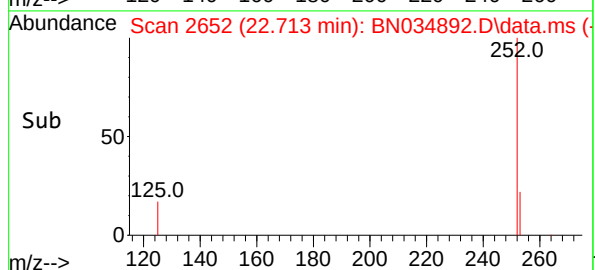
Delta R.T. 0.001 min

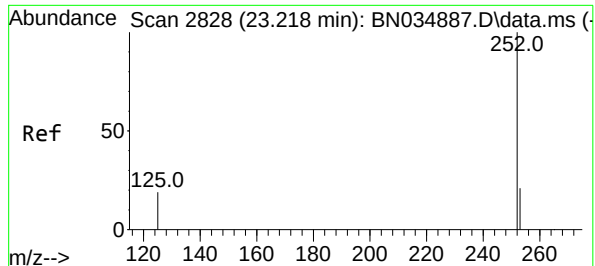
Lab File: BN034892.D

Acq: 07 Nov 2024 14:24



Tgt Ion:	252	Resp:	16927
Ion Ratio	Lower	Upper	
252	100		
253	24.1	19.8	29.8
125	24.3	22.6	33.8





#39

Benzo(a)pyrene

Concen: 0.349 ng

RT: 23.219 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

Instrument :

BNA_N

ClientSampleId :

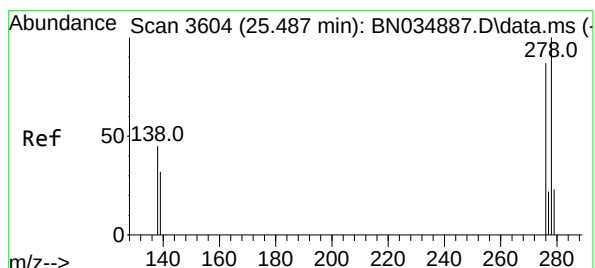
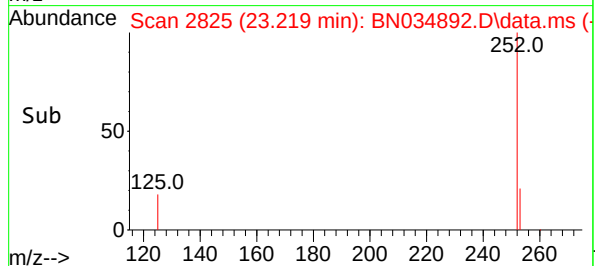
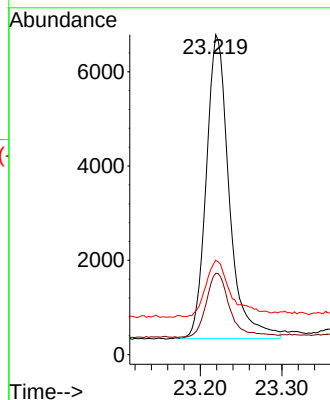
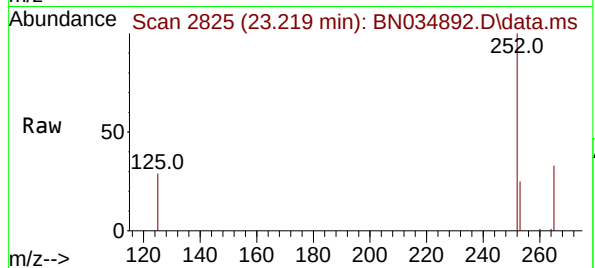
ICVBN110724

Tgt Ion:	252	Resp:	1251
Ion Ratio	Lower	Upper	
252	100		
253	25.4	21.4	32.2
125	29.5	27.8	41.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.331 ng

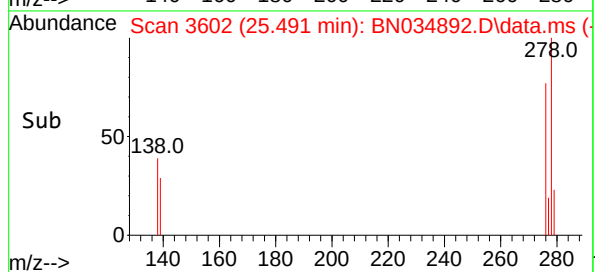
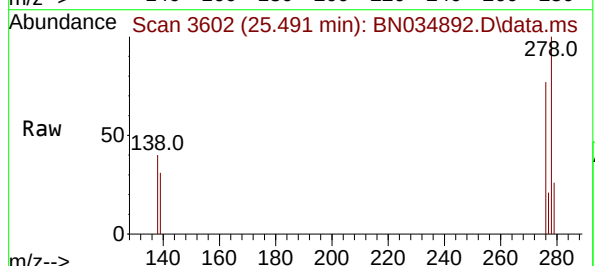
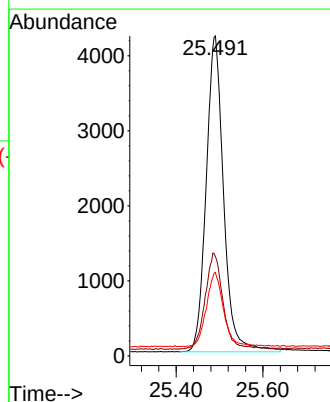
RT: 25.491 min Scan# 3602

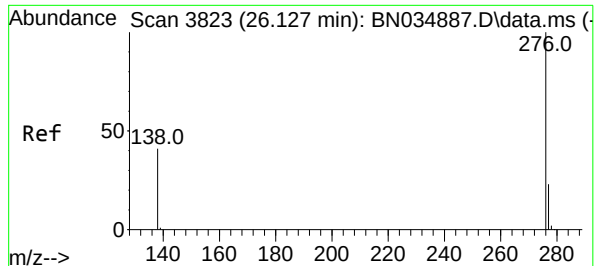
Delta R.T. 0.004 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

Tgt Ion:	278	Resp:	11726
Ion Ratio	Lower	Upper	
278	100		
139	31.1	27.2	40.8
279	26.1	21.4	32.0





#41

Benzo(g,h,i)perylene

Concen: 0.345 ng

RT: 26.125 min Scan# 3823

Delta R.T. -0.002 min

Lab File: BN034892.D

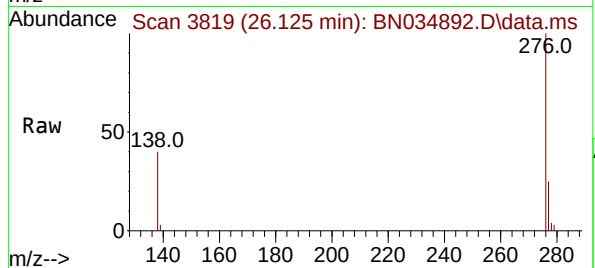
Acq: 07 Nov 2024 14:24

Instrument :

BNA_N

ClientSampleId :

ICVBN110724



Tgt Ion:276 Resp: 1300

Ion Ratio Lower Upper

276 100

277 24.8 20.2 30.2

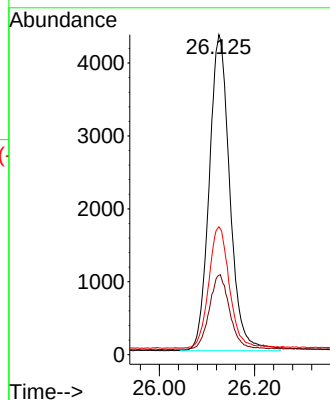
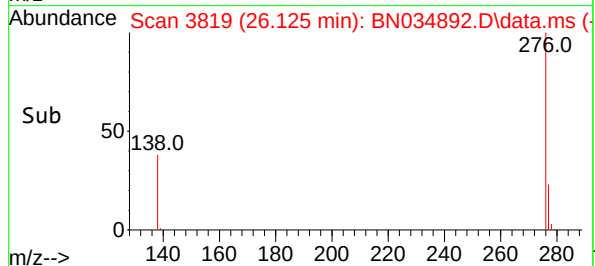
138 40.0 33.9 50.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/08/2024

Supervised By :mohammad ahmed 11/08/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
Data File : BN034892.D
Acq On : 07 Nov 2024 14:24
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN110724

Quant Time: Nov 07 15:03:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 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	95	0.00
2	1,4-Dioxane	0.505	0.440	12.9	88	0.00
3	n-Nitrosodimethylamine	0.682	0.577	15.4	89	0.00
4 S	2-Fluorophenol	1.115	0.988	11.4	93	0.00
5 S	Phenol-d6	1.480	1.288	13.0	94	0.00
6	bis(2-Chloroethyl)ether	1.277	1.163	8.9	95	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	101	0.00
8 S	Nitrobenzene-d5	0.312	0.269	13.8	97	0.00
9	Naphthalene	1.110	1.047	5.7	102	0.01
10	Hexachlorobutadiene	0.177	0.167	5.6	101	0.00
11 SURR	2-Methylnaphthalene-d10	0.545	0.517	5.1	106	0.00
12	2-Methylnaphthalene	0.679	0.648	4.6	107	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	111	0.00
14 S	2,4,6-Tribromophenol	0.118	0.100	15.3	129	0.00
15 S	2-Fluorobiphenyl	1.690	1.515	10.4	109	0.00
16	Acenaphthylene	1.929	1.667	13.6	111	0.00
17	Acenaphthene	1.335	1.189	10.9	112	0.00
18	Fluorene	1.662	1.501	9.7	114	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00
20	4,6-Dinitro-2-methylphenol	0.044	0.030	31.8#	116	0.00
21	4-Bromophenyl-phenylether	0.213	0.202	5.2	122	0.00
22	Hexachlorobenzene	0.257	0.250	2.7	121	0.00
23	Atrazine	0.154	0.140	9.1	127	0.00
24	Pentachlorophenol	0.077	0.058	24.7	128	0.00
25	Phenanthrene	1.227	1.149	6.4	120	0.00
26	Anthracene	1.058	0.969	8.4	122	0.00
27 SURR	Fluoranthene-d10	0.902	0.864	4.2	131	0.00
28	Fluoranthene	1.291	1.239	4.0	133	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	143	0.00
30	Pyrene	2.025	1.858	8.2	133	0.00
31 S	Terphenyl-d14	0.749	0.722	3.6	139	0.00
32	Benzo(a)anthracene	1.559	1.439	7.7	144	0.00
33	Chrysene	1.650	1.597	3.2	144	0.00
34	Bis(2-ethylhexyl)phthalate	0.895	0.729	18.5	145	0.00
35 I	Perylene-d12	1.000	1.000	0.0	151#	0.00
36	Indeno(1,2,3-cd)pyrene	1.782	1.469	17.6	132	0.00
37	Benzo(b)fluoranthene	1.757	1.662	5.4	143	0.00
38	Benzo(k)fluoranthene	1.828	1.645	10.0	144	0.00
39 C	Benzo(a)pyrene	1.396	1.216	12.9	137	0.00
40	Dibenzo(a,h)anthracene	1.379	1.139	17.4	132	0.00
41	Benzo(g,h,i)perylene	1.464	1.263	13.7	128	0.00

(#) = Out of Range

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

Instrument :
BNA_N
ClientSampleId :
ICVBN110724

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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
Data File : BN034892.D
Acq On : 07 Nov 2024 14:24
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN110724

Quant Time: Nov 07 15:03:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 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	95	0.00
2	1,4-Dioxane	0.400	0.348	13.0	88	0.00
3	n-Nitrosodimethylamine	0.400	0.339	15.3	89	0.00
4 S	2-Fluorophenol	0.400	0.354	11.5	93	0.00
5 S	Phenol-d6	0.400	0.348	13.0	94	0.00
6	bis(2-Chloroethyl)ether	0.400	0.364	9.0	95	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	101	0.00
8 S	Nitrobenzene-d5	0.400	0.345	13.8	97	0.00
9	Naphthalene	0.400	0.377	5.8	102	0.01
10	Hexachlorobutadiene	0.400	0.378	5.5	101	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.379	5.3	106	0.00
12	2-Methylnaphthalene	0.400	0.382	4.5	107	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	111	0.00
14 S	2,4,6-Tribromophenol	0.400	0.383	4.3	129	0.00
15 S	2-Fluorobiphenyl	0.400	0.359	10.3	109	0.00
16	Acenaphthylene	0.400	0.346	13.5	111	0.00
17	Acenaphthene	0.400	0.356	11.0	112	0.00
18	Fluorene	0.400	0.361	9.8	114	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	122	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.349	12.8	116	0.00
21	4-Bromophenyl-phenylether	0.400	0.379	5.3	122	0.00
22	Hexachlorobenzene	0.400	0.390	2.5	121	0.00
23	Atrazine	0.400	0.361	9.8	127	0.00
24	Pentachlorophenol	0.400	0.373	6.8	128	0.00
25	Phenanthrene	0.400	0.375	6.3	120	0.00
26	Anthracene	0.400	0.366	8.5	122	0.00
27 SURR	Fluoranthene-d10	0.400	0.383	4.3	131	0.00
28	Fluoranthene	0.400	0.384	4.0	133	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	143	0.00
30	Pyrene	0.400	0.367	8.3	133	0.00
31 S	Terphenyl-d14	0.400	0.385	3.8	139	0.00
32	Benzo(a)anthracene	0.400	0.369	7.8	144	0.00
33	Chrysene	0.400	0.387	3.3	144	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.326	18.5	145	0.00
35 I	Perylene-d12	0.400	0.400	0.0	151	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.330	17.5	132	0.00
37	Benzo(b)fluoranthene	0.400	0.378	5.5	143	0.00
38	Benzo(k)fluoranthene	0.400	0.360	10.0	144	0.00
39 C	Benzo(a)pyrene	0.400	0.349	12.8	137	0.00
40	Dibenzo(a,h)anthracene	0.400	0.331	17.3	132	0.00
41	Benzo(g,h,i)perylene	0.400	0.345	13.8	128	0.00

(#) = Out of Range

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

Instrument :
BNA_N
ClientSampleId :
ICVBN110724

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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.: P4710 SAS No.: P4710 SDG No.: P4710

Instrument ID: BNA_N Calibration Date/Time: 11/08/2024 08:29

Lab File ID: BN034898.D Init. Calib. Date(s): 11/07/2024 11/07/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 10:02 13:49

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.545	0.496		-9.0	20.0
Fluoranthene-d10	0.902	0.852		-5.5	20.0
2-Fluorophenol	1.115	0.972		-12.8	20.0
Phenol-d6	1.480	1.313		-11.3	20.0
Nitrobenzene-d5	0.312	0.279		-10.6	20.0
2-Fluorobiphenyl	1.690	1.536		-9.1	20.0
2,4,6-Tribromophenol	0.118	0.098		-16.9	20.0
Terphenyl-d14	0.749	0.697		-6.9	20.0
1,4-Dioxane	0.505	0.457		-9.5	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
 Data File : BN034898.D
 Acq On : 08 Nov 2024 08:29
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Jagrut

Upadhyay

Quant Time: Nov 08 09:57:12 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Nov 07 15:02:36 2024

Response via : Initial Calibration

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

Internal Standards

1) 1,4-Dichlorobenzene-d4	7.575	152	6102	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	18171	0.400	ng	0.00
13) Acenaphthene-d10	14.201	164	8711	0.400	ng	-0.01
19) Phenanthrene-d10	16.957	188	17291	0.400	ng	0.00
29) Chrysene-d12	21.143	240	11255	0.400	ng	# 0.00
35) Perylene-d12	23.315	264	9481	0.400	ng	# 0.00

11/08/2024

Supervised By :mohammad

Immed

11/11/2024

System Monitoring Compounds

4) 2-Fluorophenol	5.199	112	5933	0.349	ng	0.00
5) Phenol-d6	6.752	99	8011	0.355	ng	0.00
8) Nitrobenzene-d5	8.707	82	5062	0.357	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	9015	0.364	ng	0.00
14) 2,4,6-Tribromophenol	15.704	330	854	0.375	ng	0.00
15) 2-Fluorobiphenyl	12.822	172	13376	0.364	ng	-0.01
27) Fluoranthene-d10	18.987	212	14727	0.378	ng	0.00
31) Terphenyl-d14	19.601	244	7841	0.372	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.184	88	2791	0.362	ng	100
3) n-Nitrosodimethylamine	3.487	42	3715	0.357	ng	# 96
6) bis(2-Chloroethyl)ether	7.012	93	7371	0.378	ng	98
9) Naphthalene	10.383	128	18988	0.377	ng	100
10) Hexachlorobutadiene	10.682	225	3080	0.383	ng	# 98
12) 2-Methylnaphthalene	12.011	142	11374	0.369	ng	99
16) Acenaphthylene	13.923	152	14701	0.350	ng	99
17) Acenaphthene	14.265	154	10362	0.356	ng	99
18) Fluorene	15.259	166	13094	0.362	ng	99
20) 4,6-Dinitro-2-methylph...	15.334	198	538	0.355	ng	94
21) 4-Bromophenyl-phenylether	16.151	248	3355	0.364	ng	# 63
22) Hexachlorobenzene	16.262	284	4416	0.398	ng	98
23) Atrazine	16.436	200	2322	0.348	ng	99
24) Pentachlorophenol	16.610	266	1123	0.410	ng	97
25) Phenanthrene	16.995	178	20416	0.385	ng	100
26) Anthracene	17.082	178	16914	0.370	ng	100
28) Fluoranthene	19.020	202	21528	0.386	ng	100
30) Pyrene	19.382	202	21506	0.377	ng	100
32) Benzo(a)anthracene	21.134	228	16690	0.380	ng	98
33) Chrysene	21.178	228	18283	0.394	ng	96
34) Bis(2-ethylhexyl)phtha...	21.089	149	8187m	0.325	ng	
36) Indeno(1,2,3-cd)pyrene	25.472	276	15511	0.367	ng	99
37) Benzo(b)fluoranthene	22.669	252	17145	0.412	ng	97
38) Benzo(k)fluoranthene	22.712	252	17383	0.401	ng	96
39) Benzo(a)pyrene	23.221	252	12460	0.377	ng	94
40) Dibenzo(a,h)anthracene	25.484	278	11910	0.364	ng	99
41) Benzo(g,h,i)perylene	26.127	276	13103	0.378	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
 Data File : BN034898.D
 Acq On : 08 Nov 2024 08:29
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

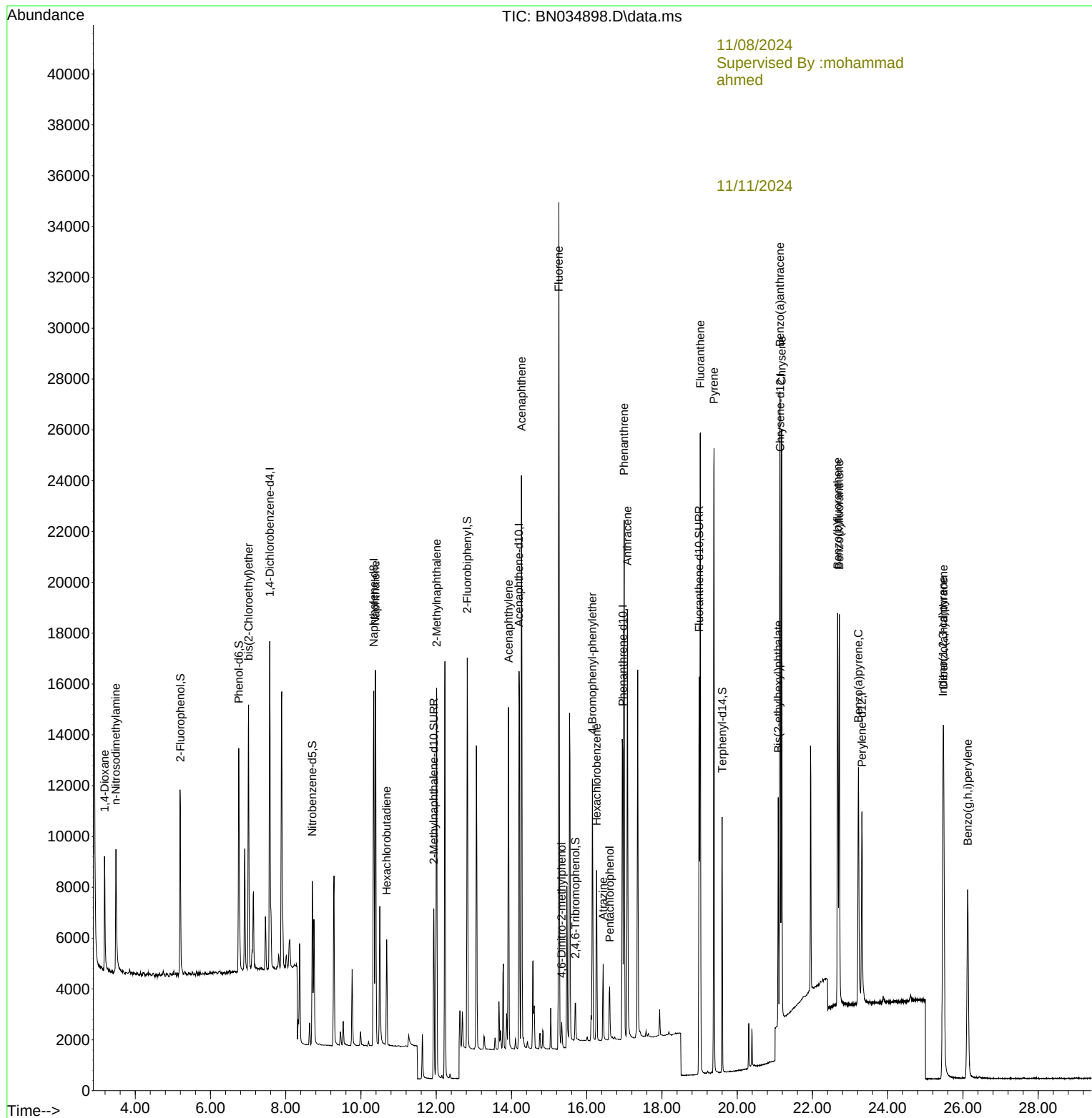
ClientSampleId :

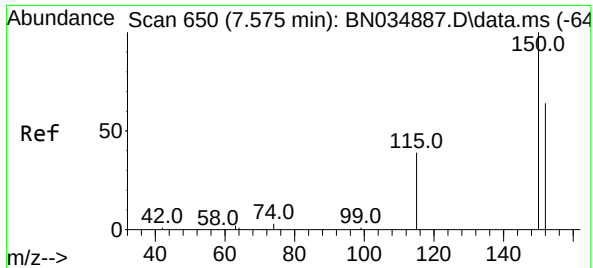
SSTDCCC0.4

Manual Integrations**APPROVED**

Reviewed By :Jagrut
 Upadhyay

Quant Time: Nov 08 09:57:12 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 07 15:02:36 2024
 Response via : Initial Calibration





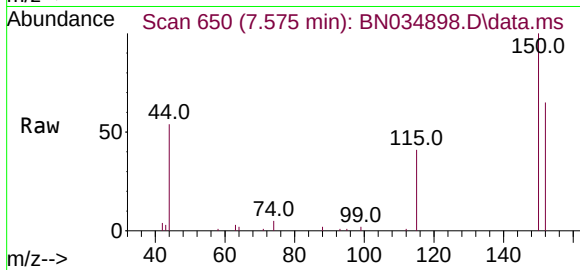
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 610
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Instrument :

BNA_N

ClientSampleId :

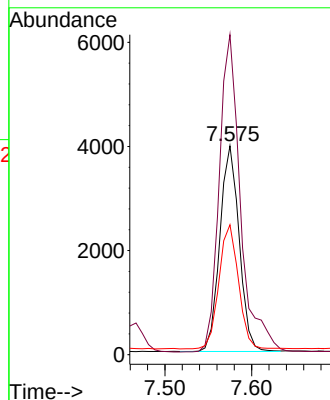
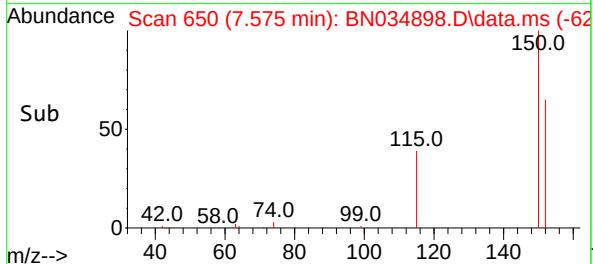
SSTDCCC0.4



Tgt Ion: 152 Resp: 610
Ion Ratio Lower Upper
152 100
150 153.3 124.4 186.6
115 62.3 50.5 75.7

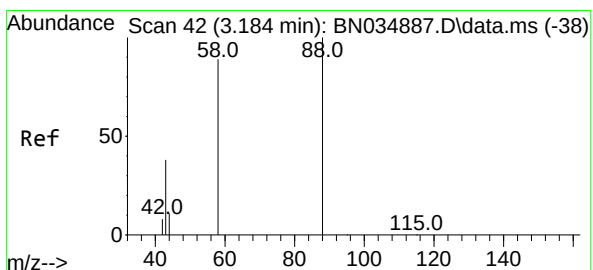
Manual Integrations
APPROVED

Reviewed By :Jagrut
Upadhyay

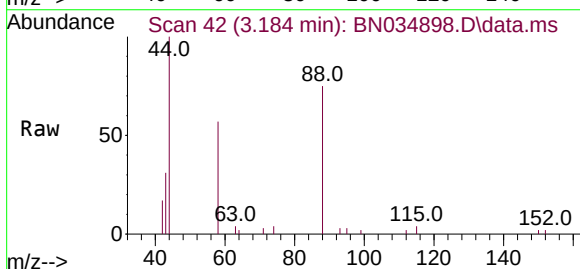


11/08/2024
Supervised By :mohammad
ahmed

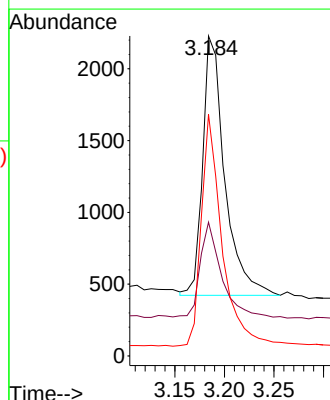
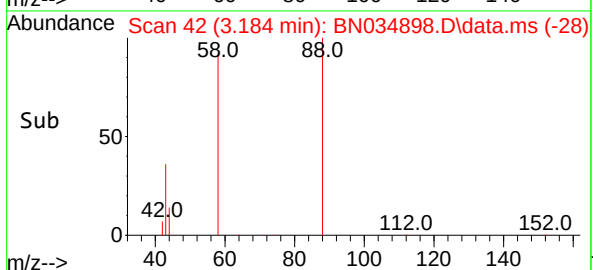
11/11/2024

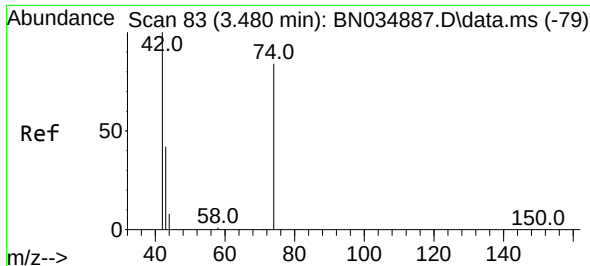


#2
1,4-Dioxane
Concen: 0.362 ng
RT: 3.184 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29



Tgt Ion: 88 Resp: 2791
Ion Ratio Lower Upper
88 100
43 34.8 28.2 42.2
58 84.1 67.1 100.7





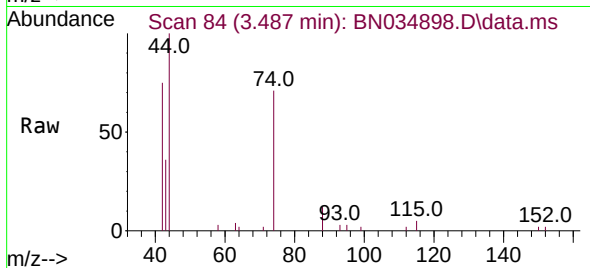
#3
n-Nitrosodimethylamine
Concen: 0.357 ng
RT: 3.487 min Scan# 84
Delta R.T. 0.007 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Instrument :

BNA_N

ClientSampleId :

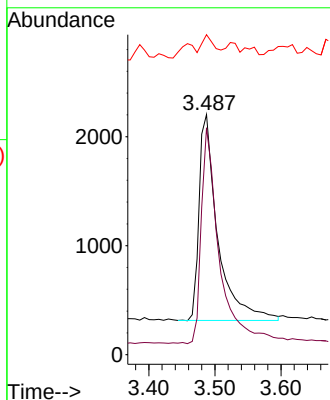
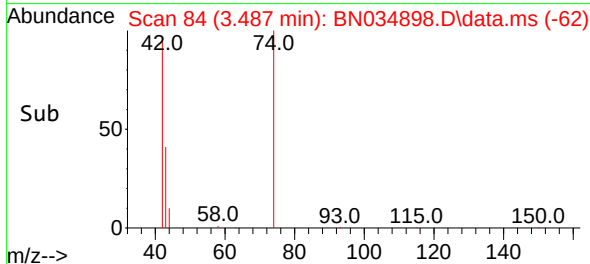
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Tgt Ion: 42 Resp: 3715
Ion Ratio Lower Upper
42 100
74 101.2 83.4 125.2
44 5.6 8.6 12.8

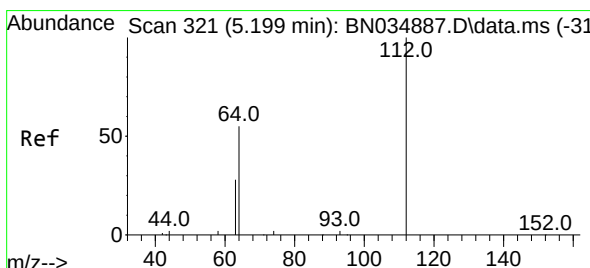
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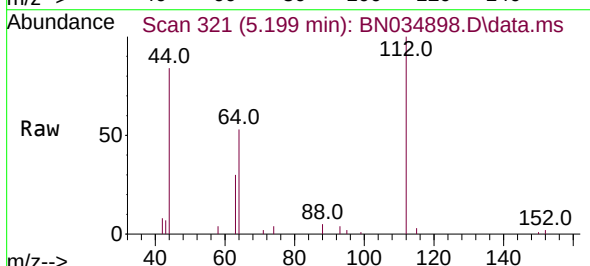


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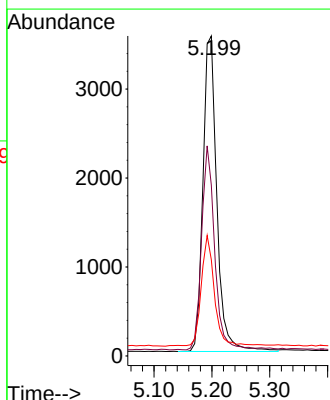
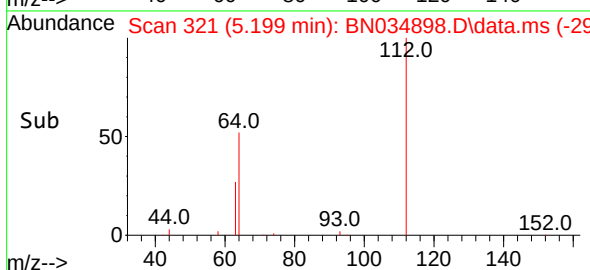
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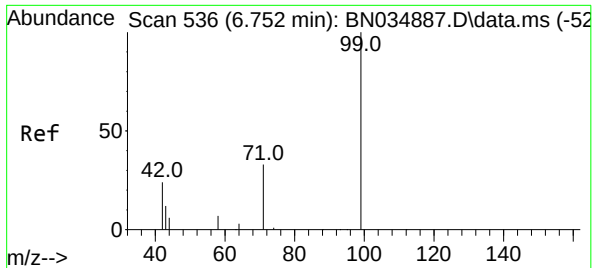


#4
2-Fluorophenol
Concen: 0.349 ng
RT: 5.199 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29



Tgt Ion:112 Resp: 5933
Ion Ratio Lower Upper
112 100
64 60.9 49.6 74.4
63 33.7 26.3 39.5





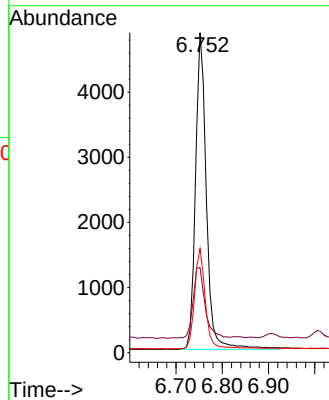
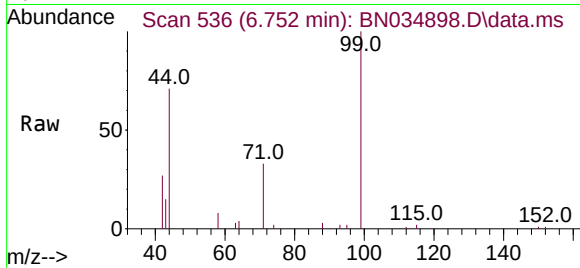
#5
Phenol-d6
Concen: 0.355 ng
RT: 6.752 min Scan# 536
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
99	100		
42	24.7	20.2	30.2
71	31.4	25.4	38.0

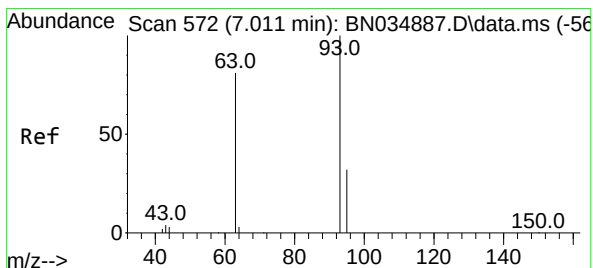
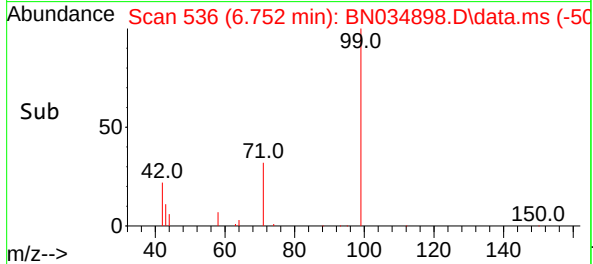
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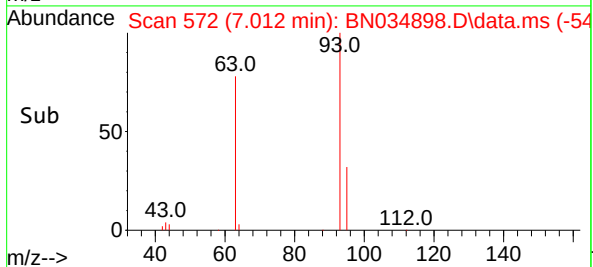
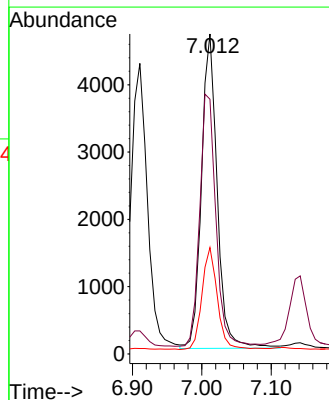
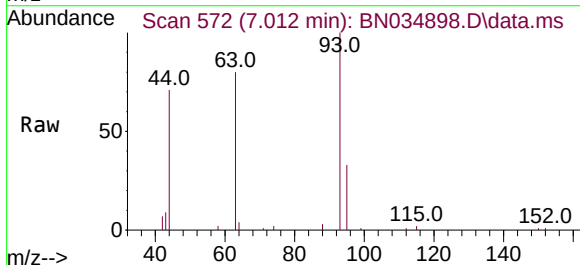
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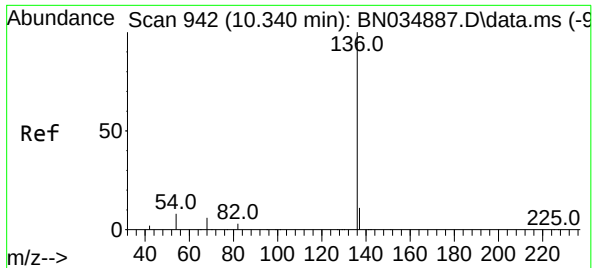
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#6
bis(2-Chloroethyl)ether
Concen: 0.378 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion	Ratio	Lower	Upper
93	100		
63	82.3	67.5	101.3
95	31.7	25.7	38.5





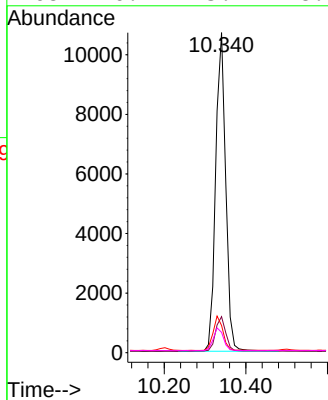
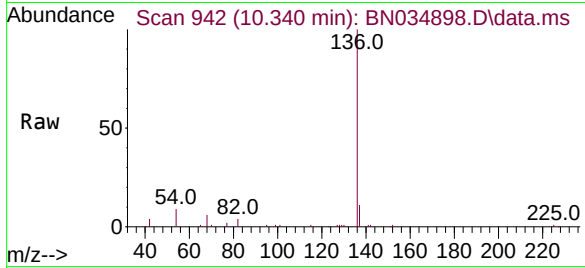
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:	136	Resp:	1817
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	8.5	6.9	10.3
68	6.4	5.4	8.0

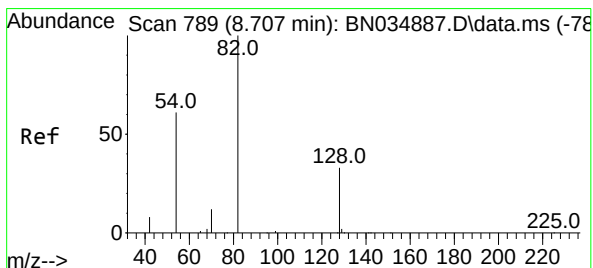
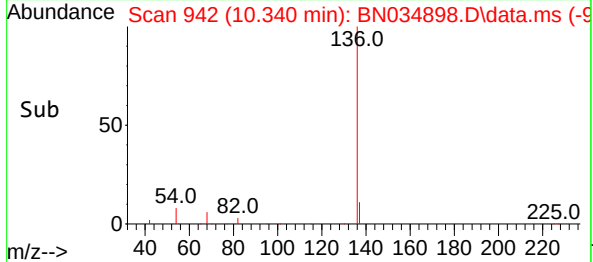
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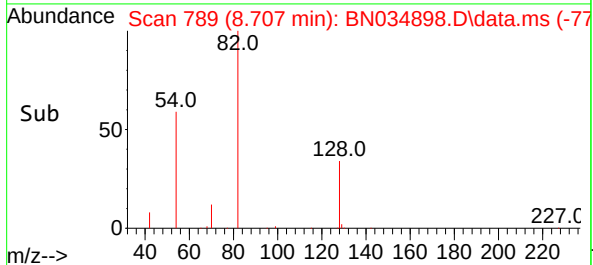
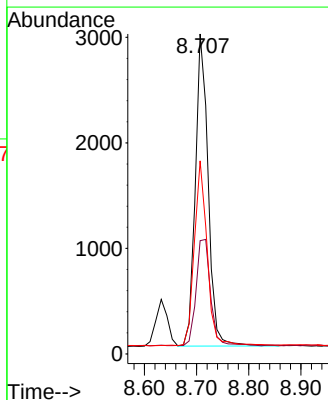
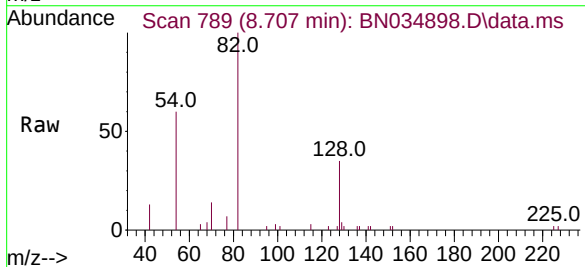
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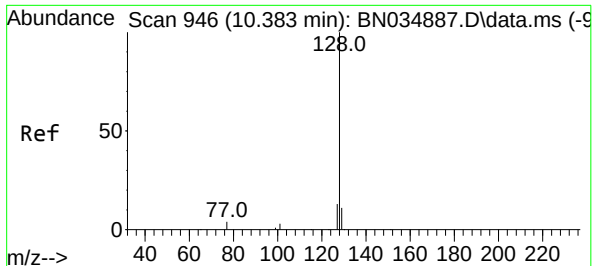
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#8
Nitrobenzene-d5
Concen: 0.357 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

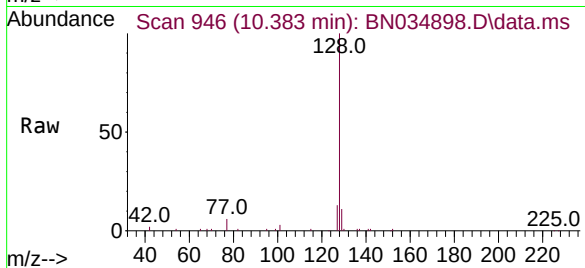
Tgt Ion:	82	Resp:	5062
Ion Ratio	Lower	Upper	
82	100		
128	35.4	28.1	42.1
54	60.4	49.8	74.6





#9
Naphthalene
Concen: 0.377 ng
RT: 10.383 min Scan# 946
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

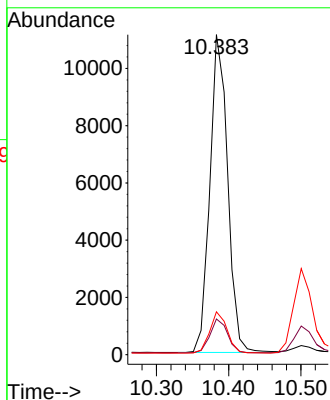
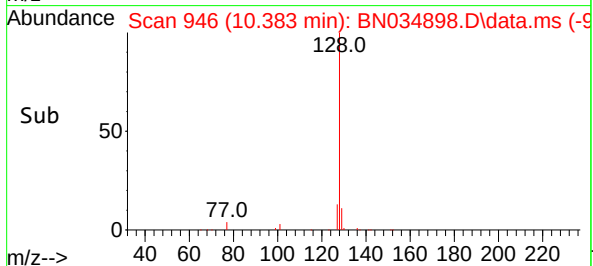
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:128 Resp: 1898
Ion Ratio Lower Upper
128 100
129 11.2 9.0 13.4
127 13.4 10.8 16.2

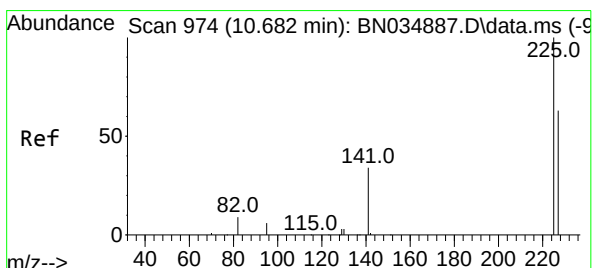
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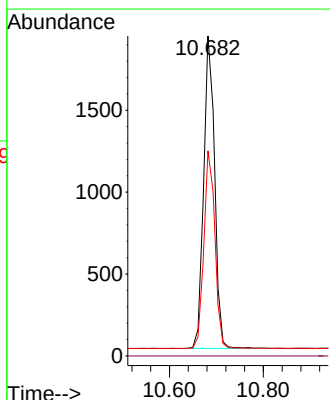
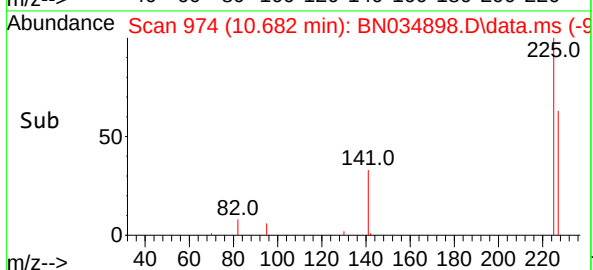
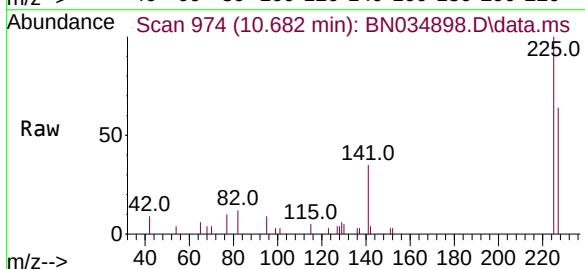
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ahmed

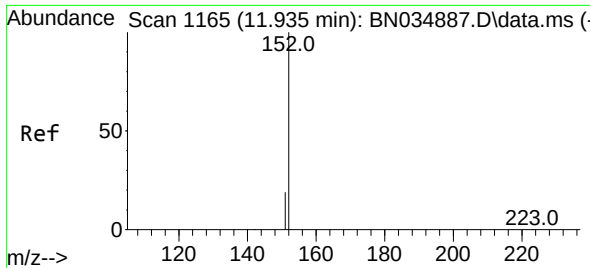
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#10
Hexachlorobutadiene
Concen: 0.383 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

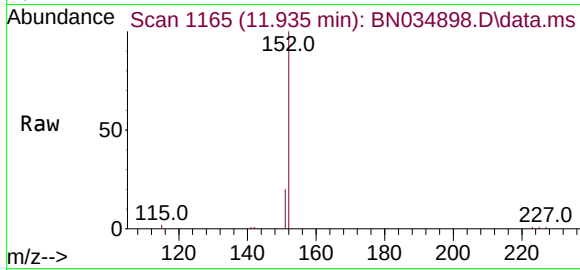
Tgt Ion:225 Resp: 3080
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 52.0 78.0





#11
2-Methylnaphthalene-d10
Concen: 0.364 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

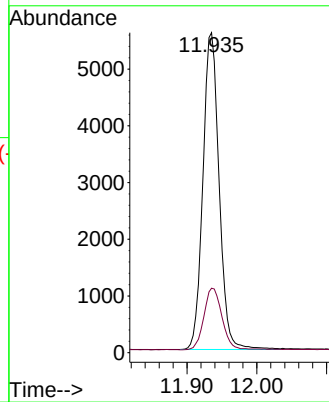
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 901
Ion Ratio Lower Upper
152 100
151 21.6 17.1 25.7

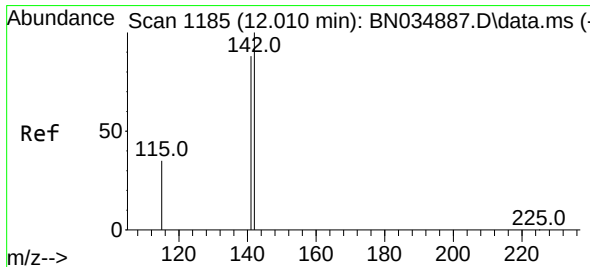
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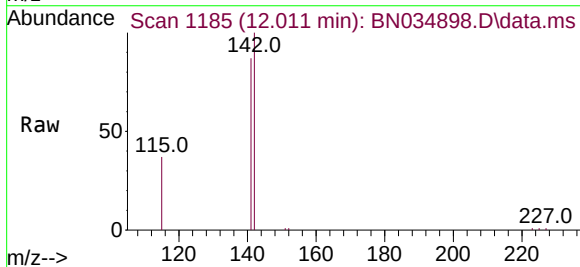


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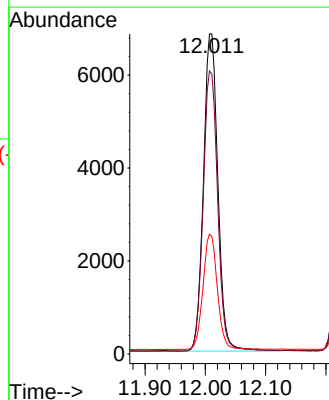
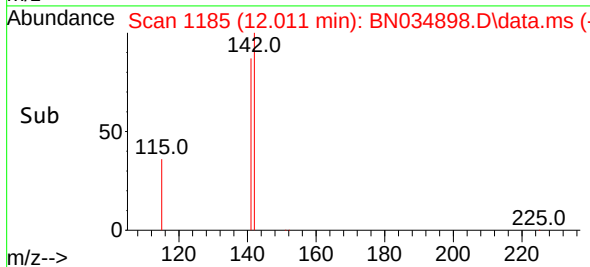
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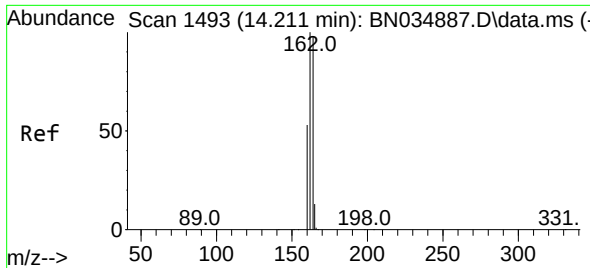


#12
2-Methylnaphthalene
Concen: 0.369 ng
RT: 12.011 min Scan# 1185
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29



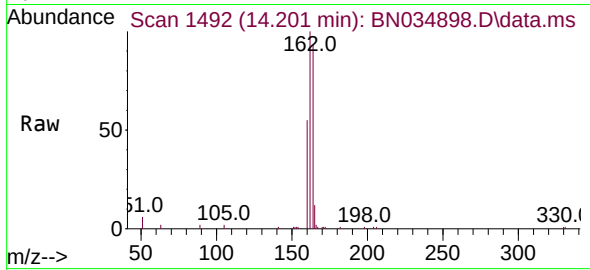
Tgt Ion:142 Resp: 11374
Ion Ratio Lower Upper
142 100
141 87.5 70.5 105.7
115 36.7 29.4 44.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.201 min Scan# 1493
Delta R.T. -0.010 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

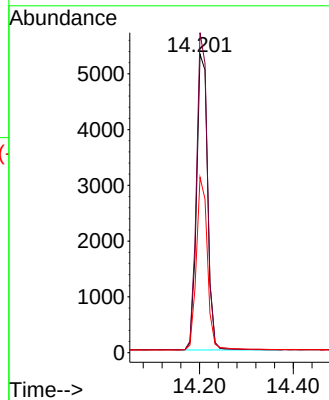
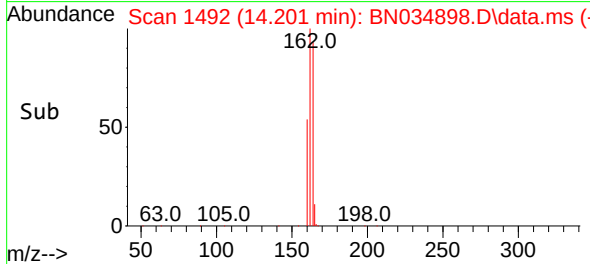
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:164 Resp: 871
Ion Ratio Lower Upper
164 100
162 107.2 81.9 122.9
160 58.8 43.5 65.3

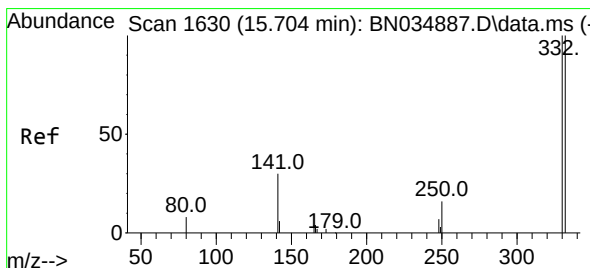
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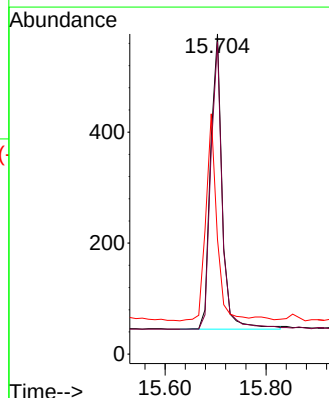
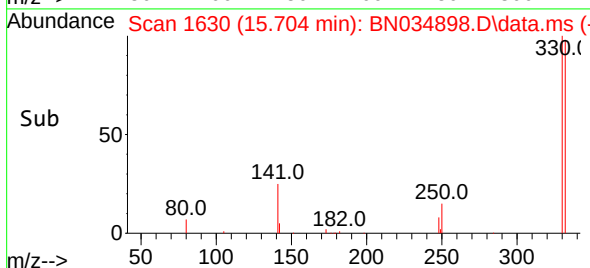
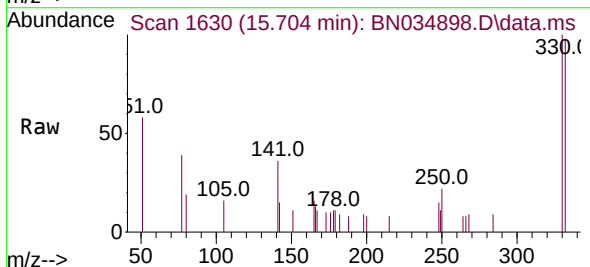
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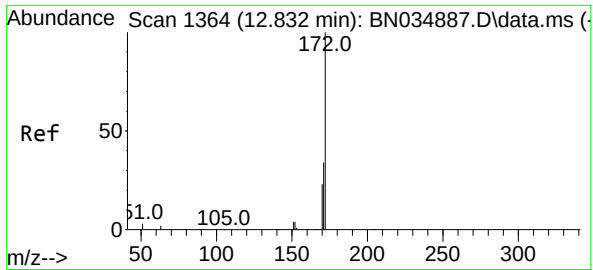
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#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.704 min Scan# 1630
Delta R.T. -0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

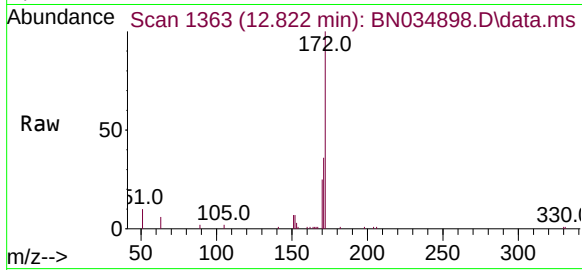
Tgt Ion:330 Resp: 854
Ion Ratio Lower Upper
330 100
332 95.6 77.1 115.7
141 66.2 54.1 81.1





#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 12.822 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

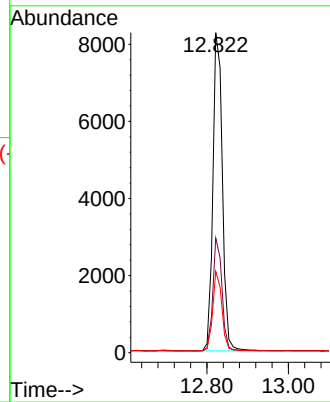
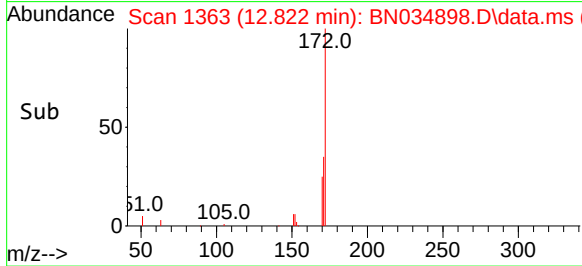
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:172 Resp: 13370
Ion Ratio Lower Upper
172 100
171 35.8 27.9 41.9
170 25.4 19.0 28.4

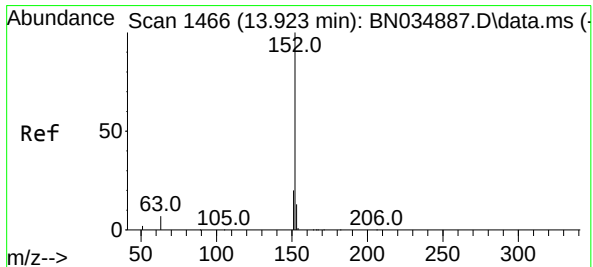
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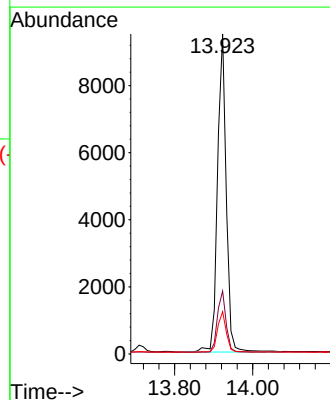
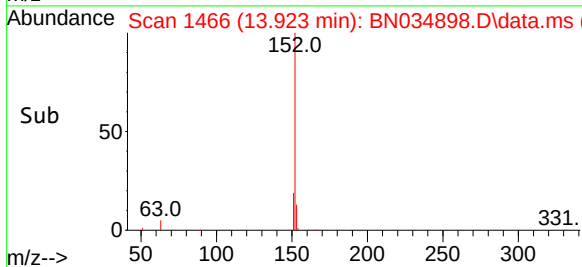
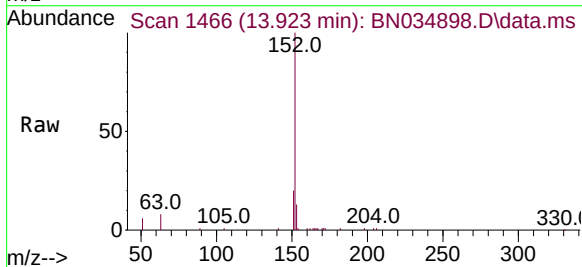
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Supervised By :mohammad
ahmed

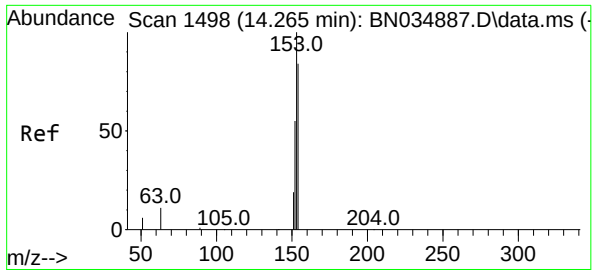
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#16
Acenaphthylene
Concen: 0.350 ng
RT: 13.923 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

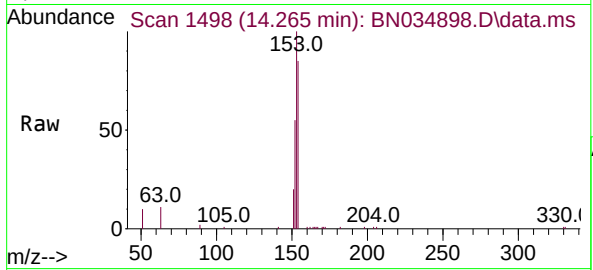
Tgt Ion:152 Resp: 14701
Ion Ratio Lower Upper
152 100
151 19.1 15.2 22.8
153 12.7 10.4 15.6





#17
Acenaphthene
Concen: 0.356 ng
RT: 14.265 min Scan# 1498
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

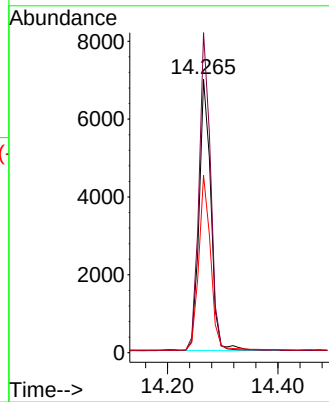
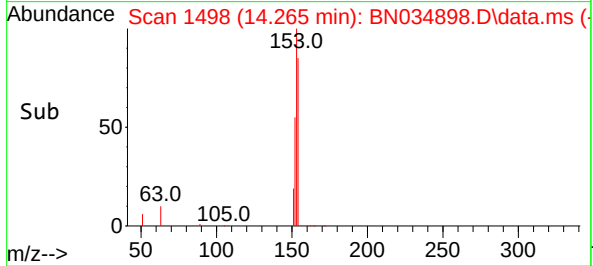
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 1036
Ion Ratio Lower Upper
154 100
153 115.3 92.2 138.2
152 64.9 51.1 76.7

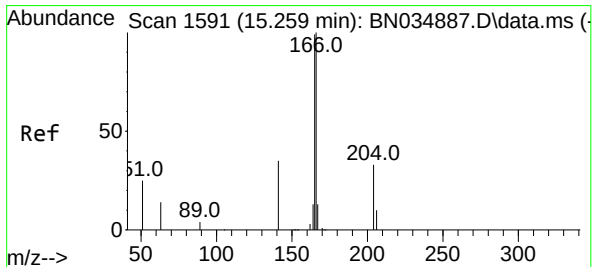
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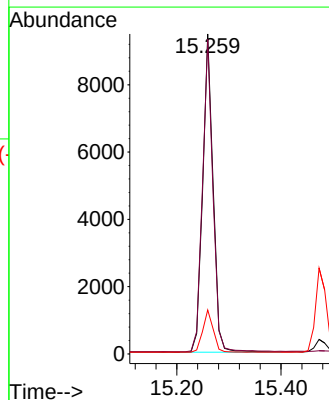
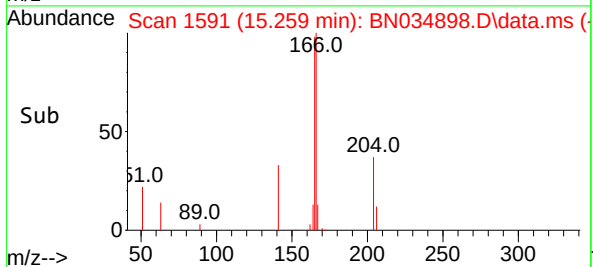
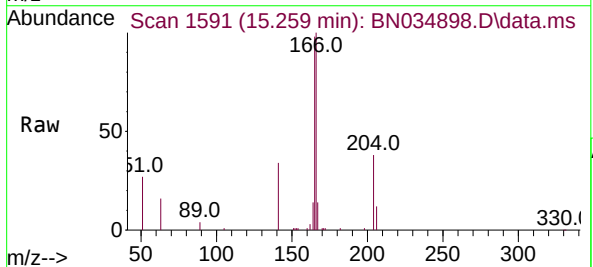
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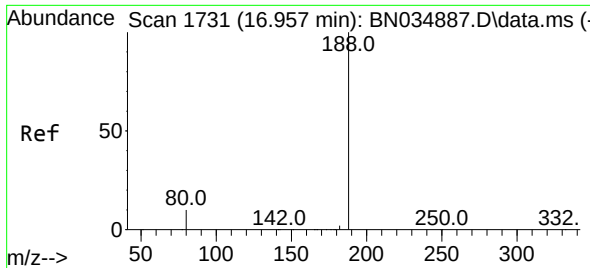
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#18
Fluorene
Concen: 0.362 ng
RT: 15.259 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

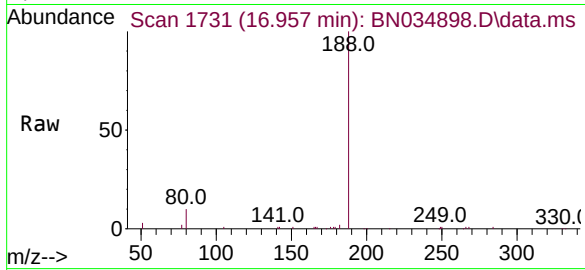
Tgt Ion:166 Resp: 13094
Ion Ratio Lower Upper
166 100
165 98.8 79.5 119.3
167 13.3 10.6 16.0





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.957 min Scan# 1731
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

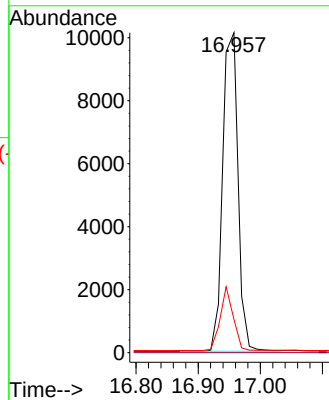
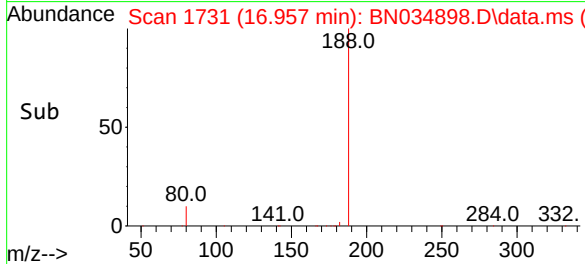
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:188 Resp: 1729
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.4 8.6 12.8

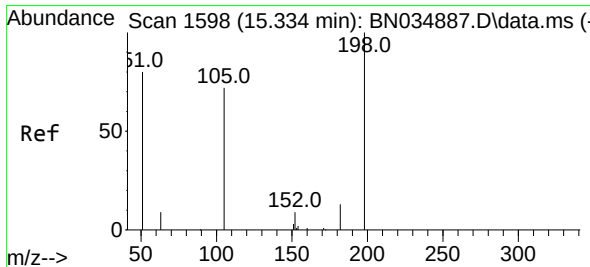
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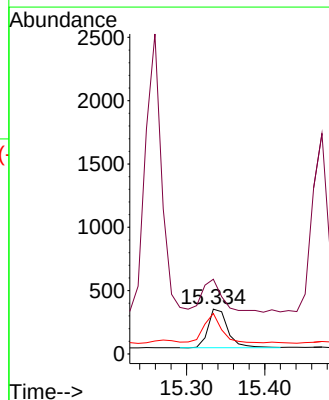
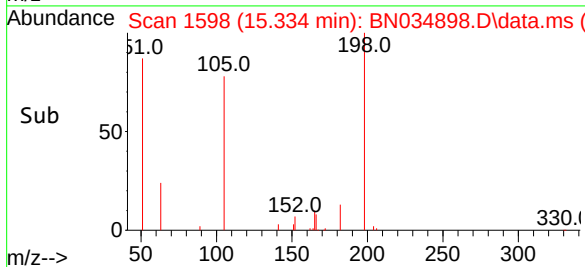
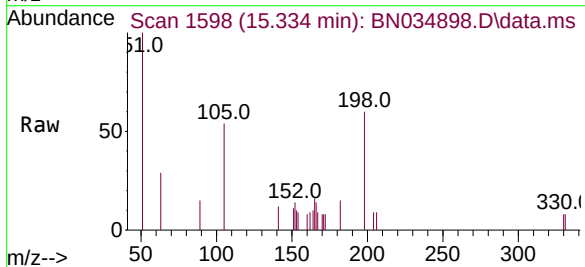
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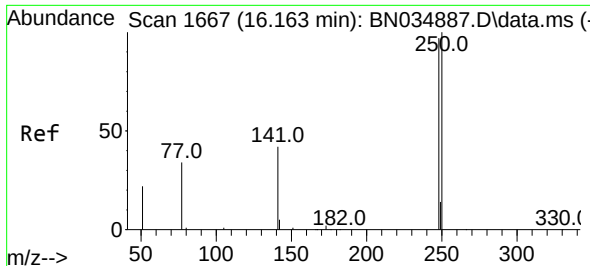
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#20
4,6-Dinitro-2-methylphenol
Concen: 0.355 ng
RT: 15.334 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:198 Resp: 538
Ion Ratio Lower Upper
198 100
51 166.7 141.8 212.8
105 90.4 75.6 113.4





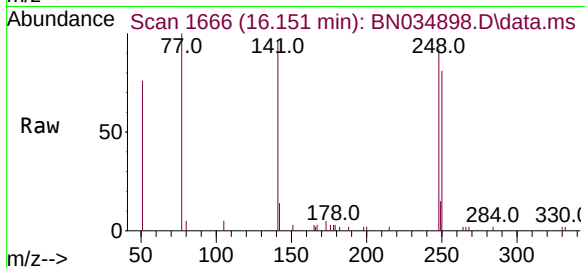
#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 16.151 min Scan# 1666
Delta R.T. -0.012 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Instrument :

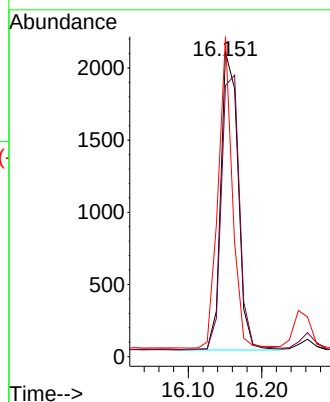
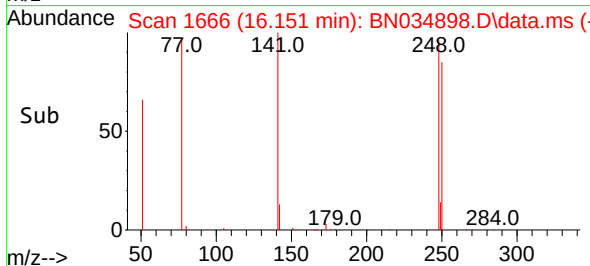
BNA_N

ClientSampleId :

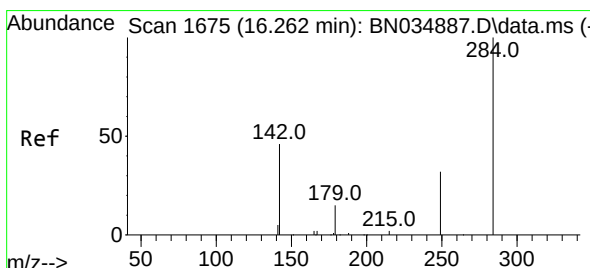
SSTDCCC0.4



Tgt Ion:248 Resp: 335
Ion Ratio Lower Upper
248 100
250 89.0 82.2 123.4
141 105.1 36.2 54.2

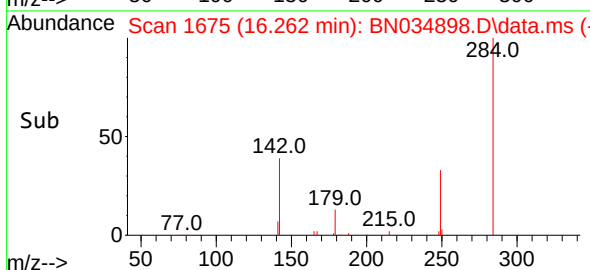
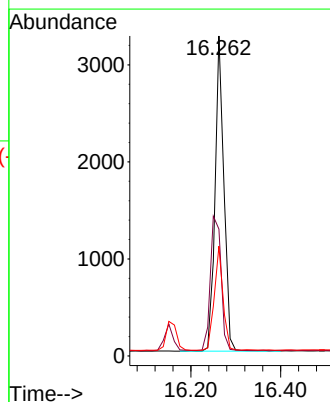
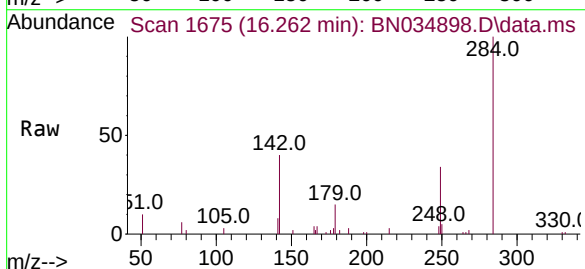
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Supervised By :mohammad
ahmed

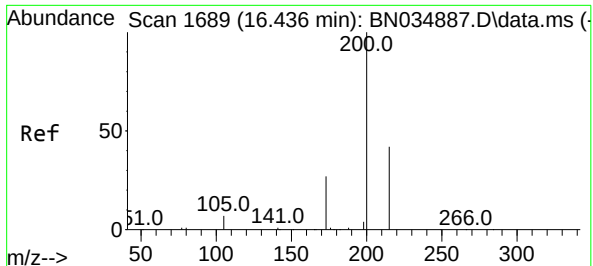
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#22
Hexachlorobenzene
Concen: 0.398 ng
RT: 16.262 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:284 Resp: 4416
Ion Ratio Lower Upper
284 100
142 51.9 43.4 65.2
249 32.6 25.8 38.6





#23

Atrazine

Concen: 0.348 ng

RT: 16.436 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

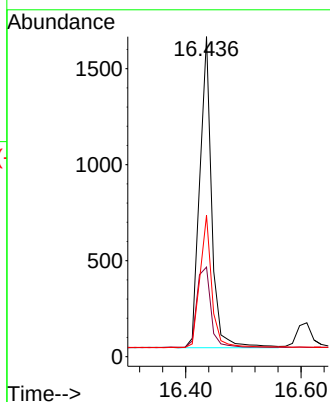
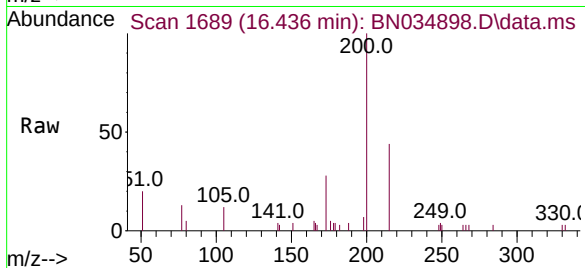
Instrument :

BNA_N

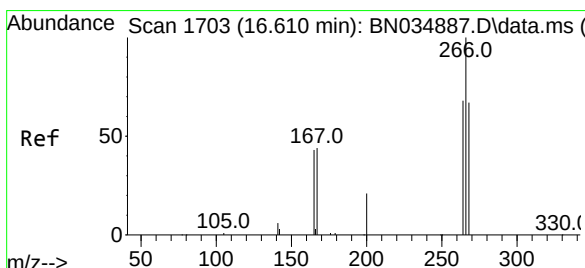
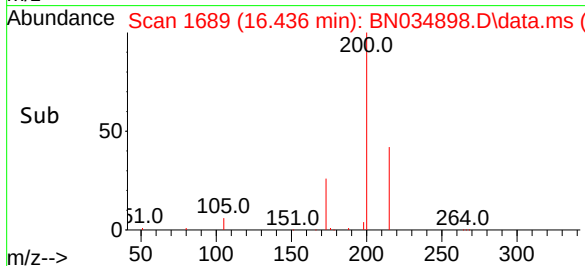
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	200	Resp:	232
Ion Ratio	Lower	Upper	
200	100		
173	28.0	23.4	35.2
215	44.2	35.4	53.0

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#24

Pentachlorophenol

Concen: 0.410 ng

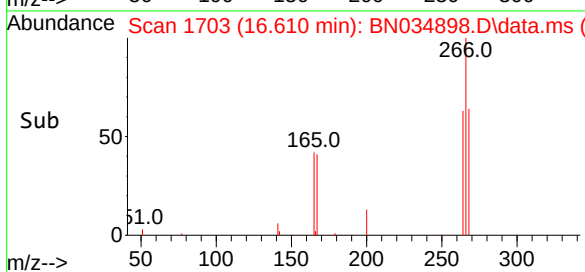
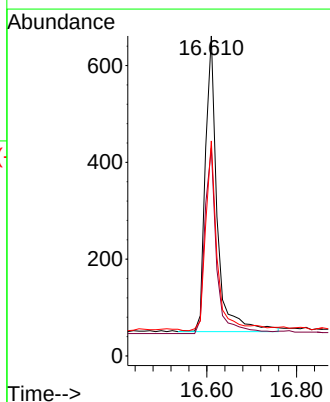
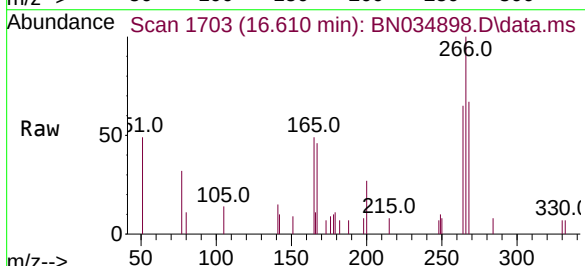
RT: 16.610 min Scan# 1703

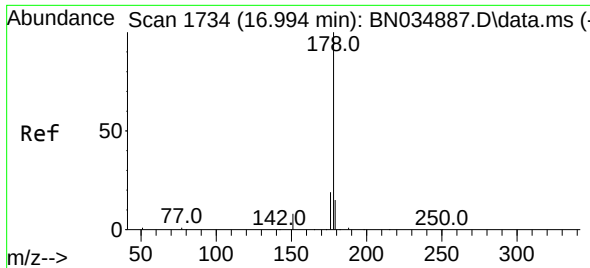
Delta R.T. -0.000 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

Tgt Ion:	266	Resp:	1123
Ion Ratio	Lower	Upper	
266	100		
264	62.5	51.3	76.9
268	62.5	53.0	79.6





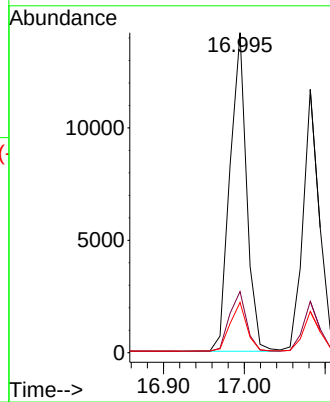
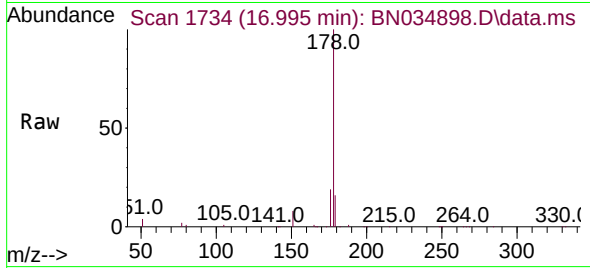
#25
Phenanthrene
Concen: 0.385 ng
RT: 16.995 min Scan# 1734
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 20410
Ion Ratio Lower Upper
178 100
176 19.3 15.5 23.3
179 15.5 12.2 18.2

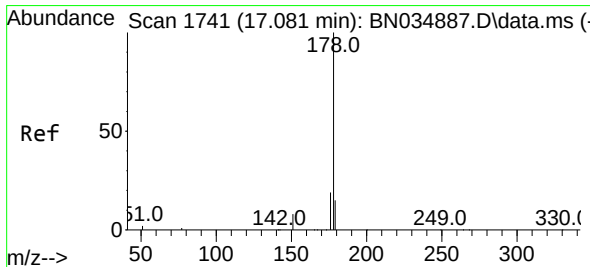
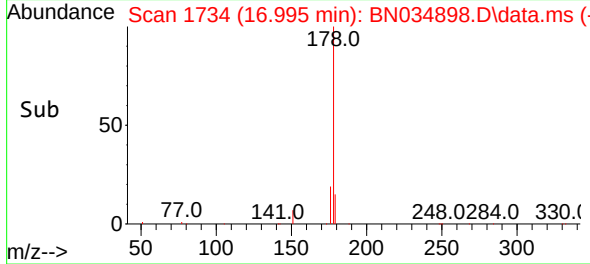
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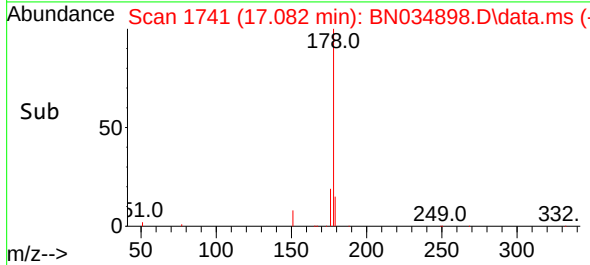
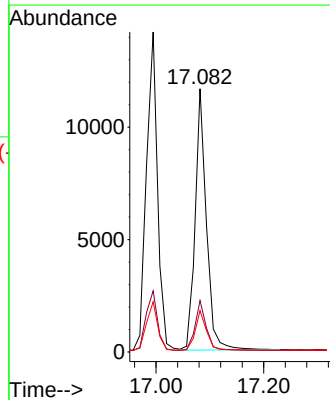
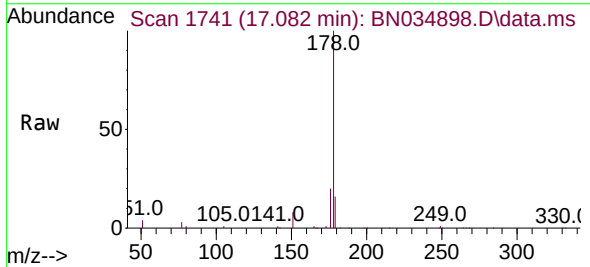
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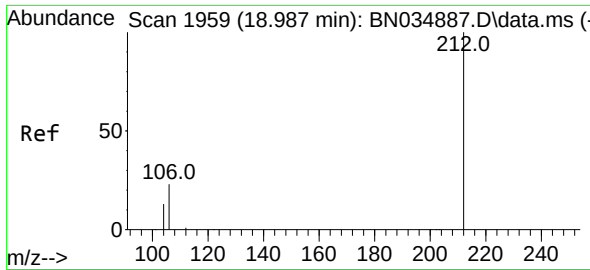
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#26
Anthracene
Concen: 0.370 ng
RT: 17.082 min Scan# 1741
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:178 Resp: 16914
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.3 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.378 ng

RT: 18.987 min Scan# 1959

Delta R.T. 0.000 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

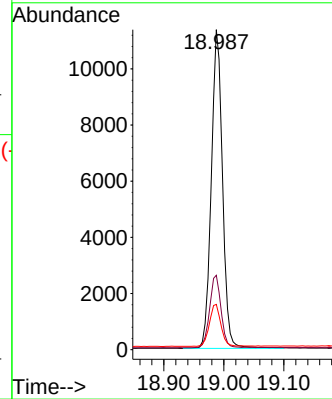
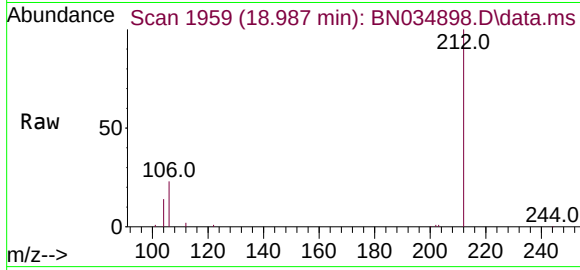
Instrument :

BNA_N

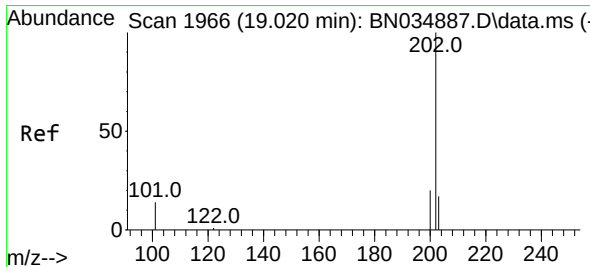
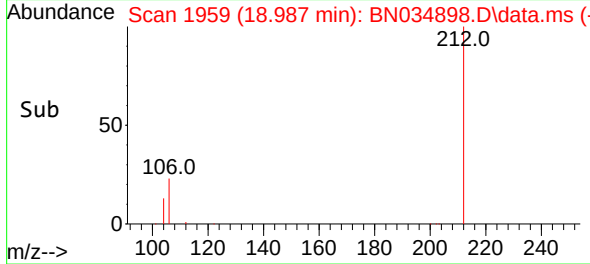
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	212	Resp:	1472
Ion Ratio	Lower	Upper	
212	100		
106	23.1	18.2	27.4
104	13.5	10.6	15.8

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#28

Fluoranthene

Concen: 0.386 ng

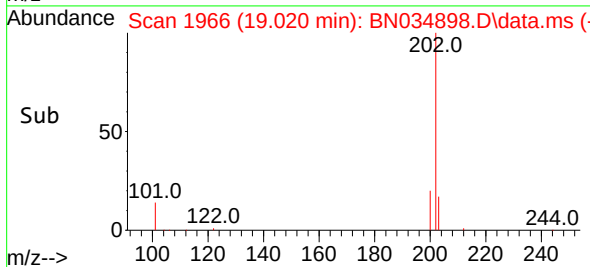
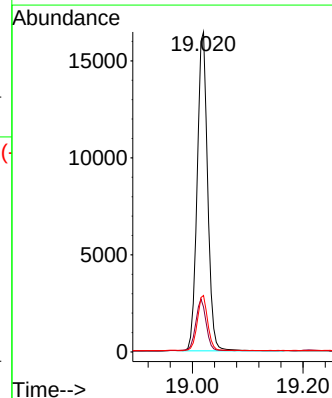
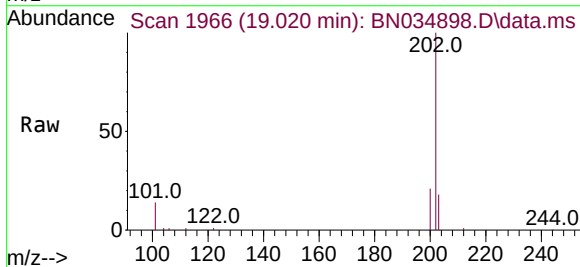
RT: 19.020 min Scan# 1966

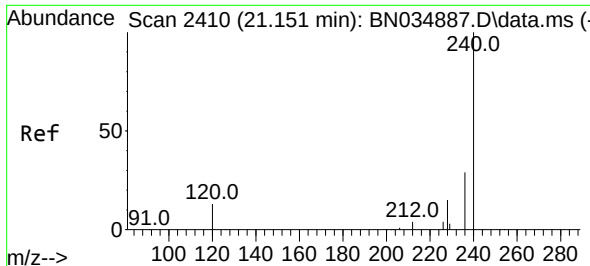
Delta R.T. 0.000 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

Tgt Ion:	202	Resp:	21528
Ion Ratio	Lower	Upper	
202	100		
101	16.2	12.7	19.1
203	17.1	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.143 min Scan# 2409

Delta R.T. -0.009 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

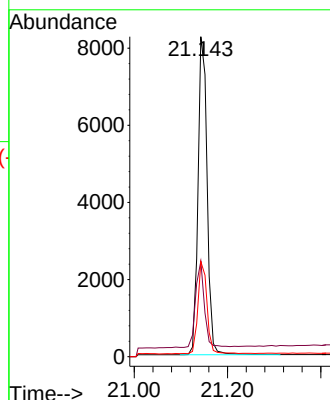
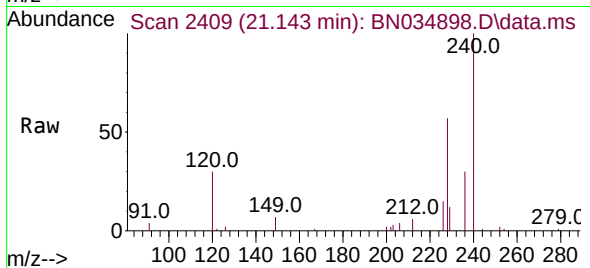
Instrument :

BNA_N

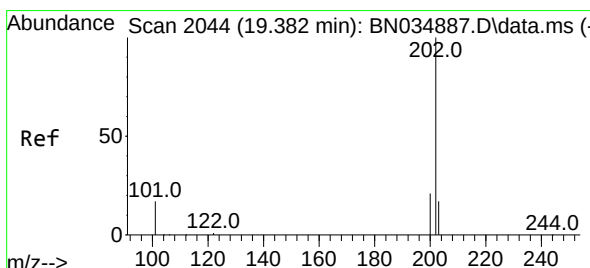
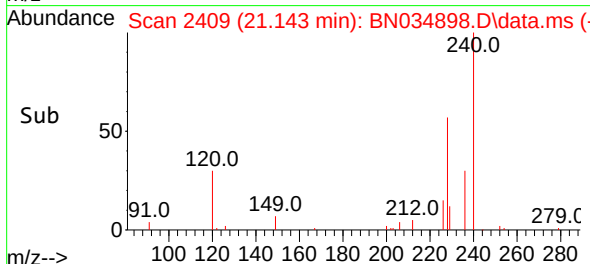
ClientSampleId :

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Tgt Ion:240	Resp:	1125
Ion Ratio	Lower	Upper
240	100	
120	29.8	13.8 20.8
236	29.7	23.8 35.6

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#30

Pyrene

Concen: 0.377 ng

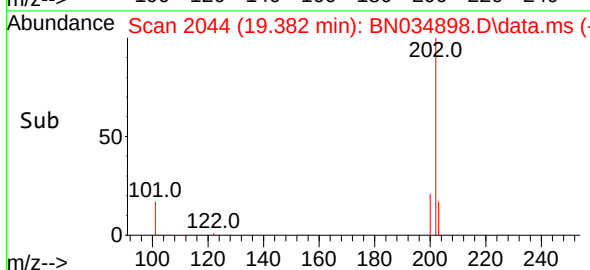
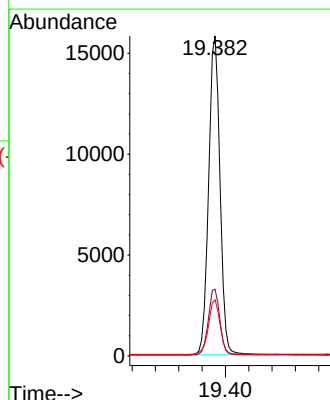
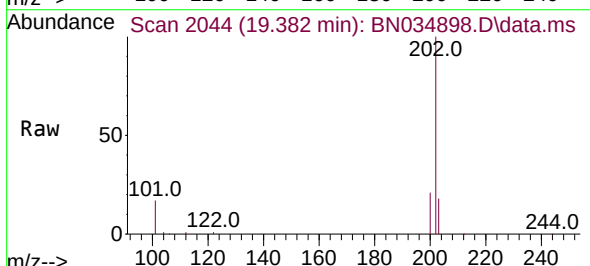
RT: 19.382 min Scan# 2044

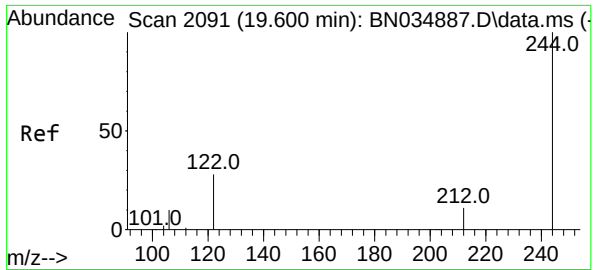
Delta R.T. 0.000 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

Tgt Ion:202	Resp:	21506
Ion Ratio	Lower	Upper
202	100	
200	20.9	16.8 25.2
203	17.8	14.1 21.1





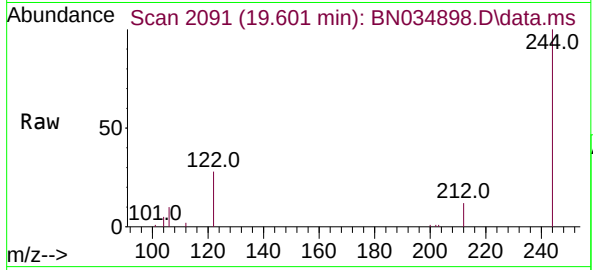
#31
Terphenyl-d14
Concen: 0.372 ng
RT: 19.601 min Scan# 2091
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Instrument :

BNA_N

ClientSampleId :

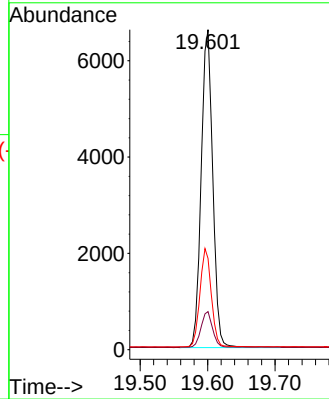
SSTDCCC0.4



Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.4	14.0
122	28.5	23.0	34.4

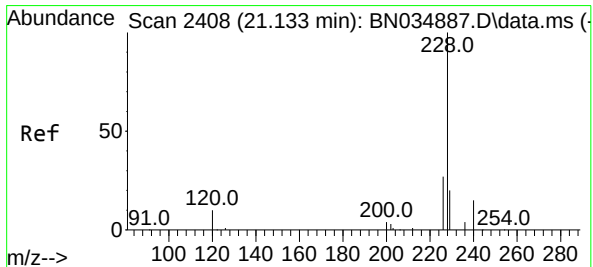
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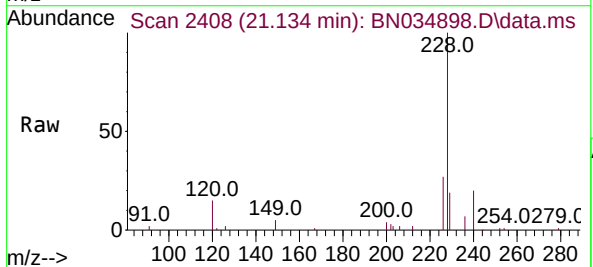


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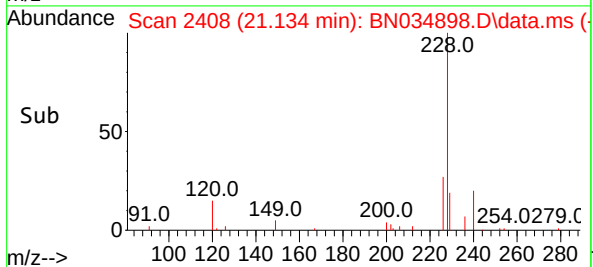
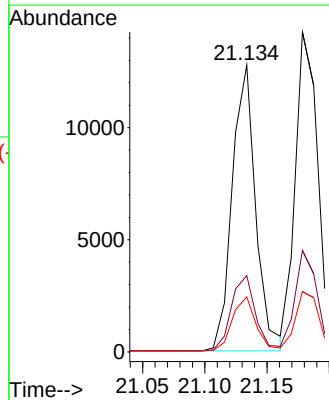
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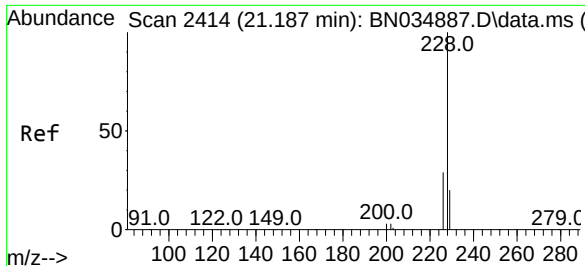


#32
Benzo(a)anthracene
Concen: 0.380 ng
RT: 21.134 min Scan# 2408
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29



Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.6	22.2	33.2
229	19.2	16.0	24.0





#33

Chrysene

Concen: 0.394 ng

RT: 21.178 min Scan# 2414

Delta R.T. -0.009 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:228 Resp: 1828

Ion Ratio Lower Upper

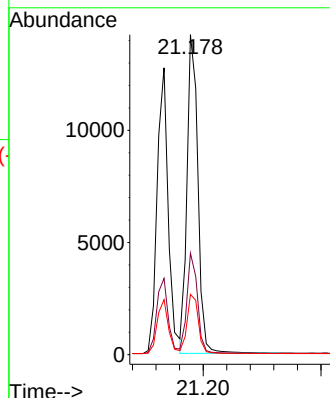
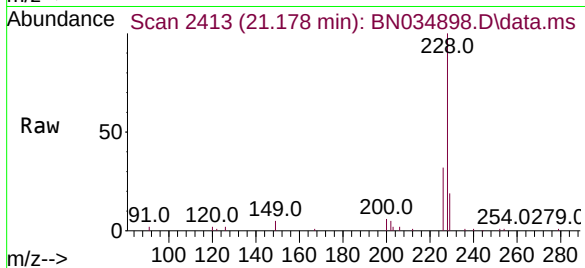
228 100

226 31.8 23.7 35.5

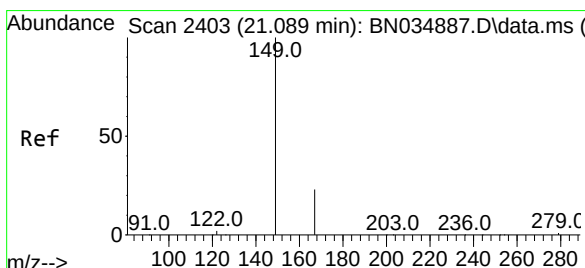
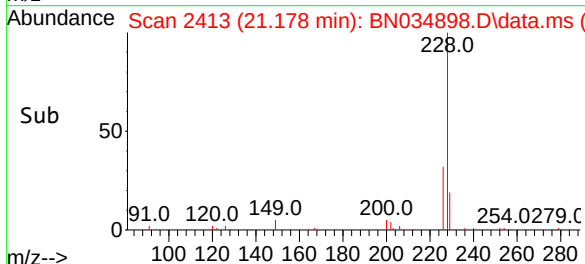
229 18.8 16.3 24.5

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#34

Bis(2-ethylhexyl)phthalate

Concen: 0.325 ng m

RT: 21.089 min Scan# 2403

Delta R.T. -0.000 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

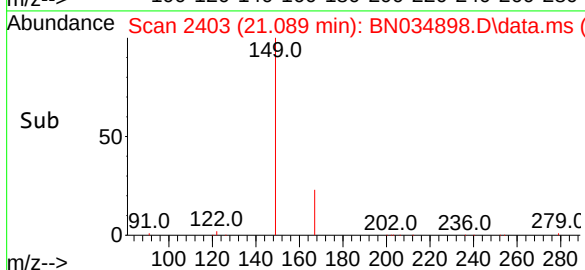
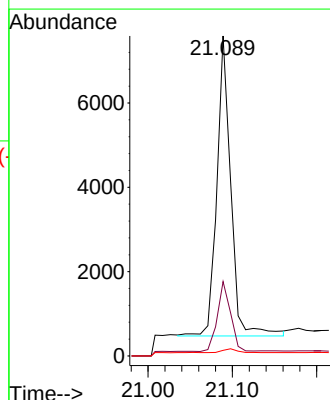
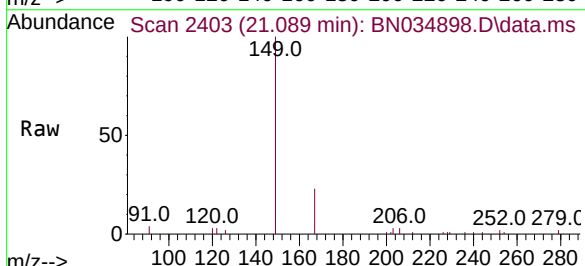
Tgt Ion:149 Resp: 8187

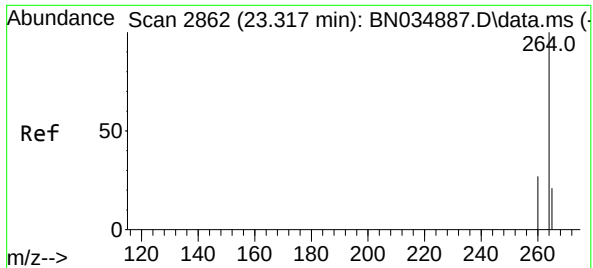
Ion Ratio Lower Upper

149 100

167 22.0 18.1 27.1

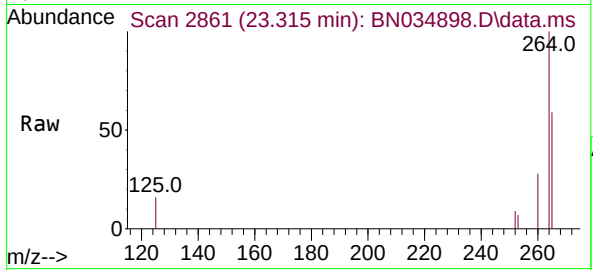
279 1.5 1.2 1.8





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.315 min Scan# 2861
Delta R.T. -0.003 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

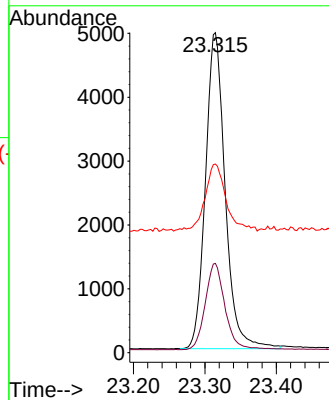
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 948
Ion Ratio Lower Upper
264 100
260 27.9 22.2 33.2
265 58.9 60.9 91.3

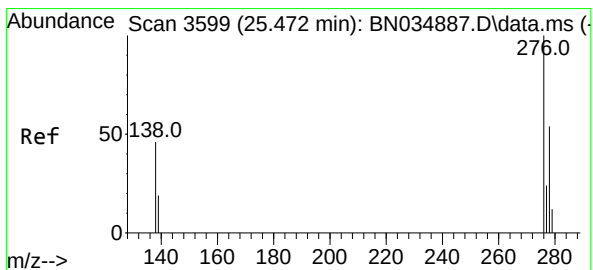
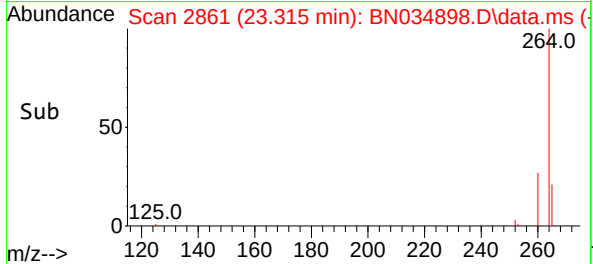
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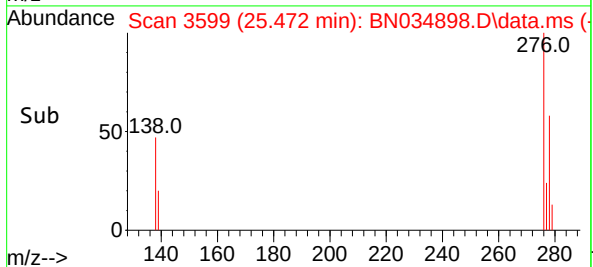
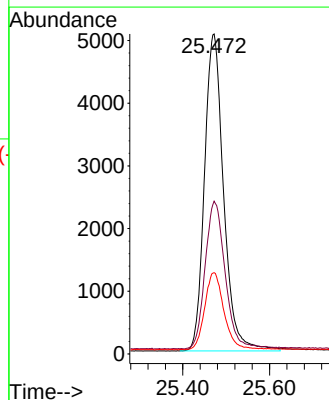
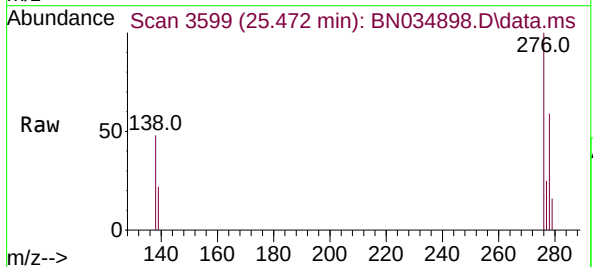
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ahmed

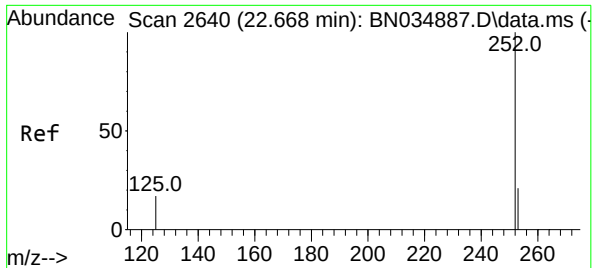
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#36
Indeno(1,2,3-cd)pyrene
Concen: 0.367 ng
RT: 25.472 min Scan# 3599
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:276 Resp: 15511
Ion Ratio Lower Upper
276 100
138 48.5 38.4 57.6
277 24.4 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.412 ng

RT: 22.669 min Scan# 2640

Delta R.T. 0.000 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

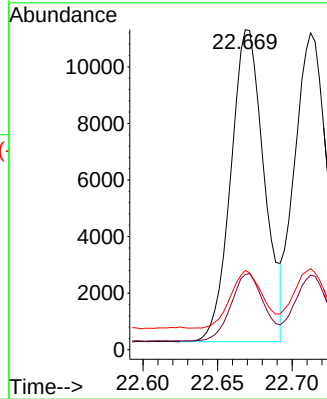
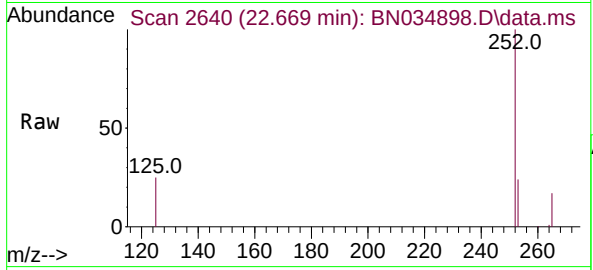
Instrument :

BNA_N

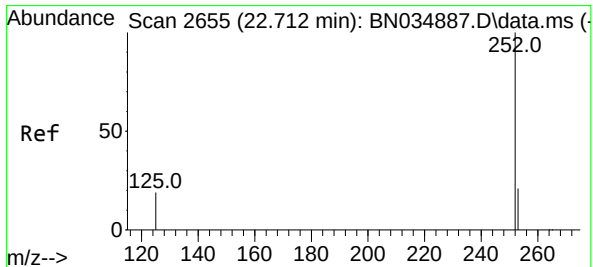
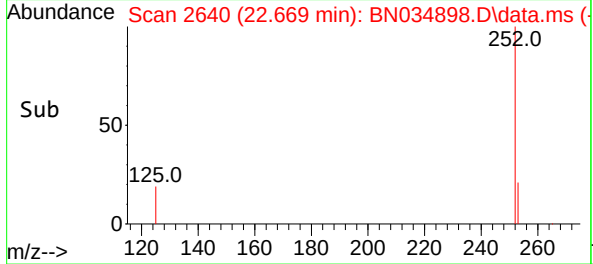
ClientSampleId :

SSTDCCC0.4

Tgt Ion:	252	Resp:	1714
Ion Ratio	Lower	Upper	
252	100		
253	23.5	19.4	29.2
125	24.7	21.4	32.2

Manual Integrations
APPROVEDReviewed By :Jagrut
Upadhyay11/08/2024
Supervised By :mohammad
ahmed

11/11/2024



#38

Benzo(k)fluoranthene

Concen: 0.401 ng

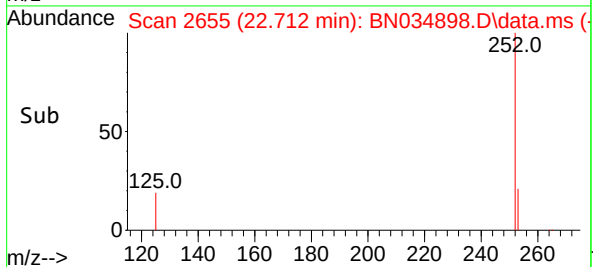
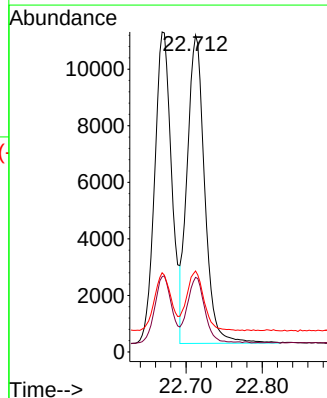
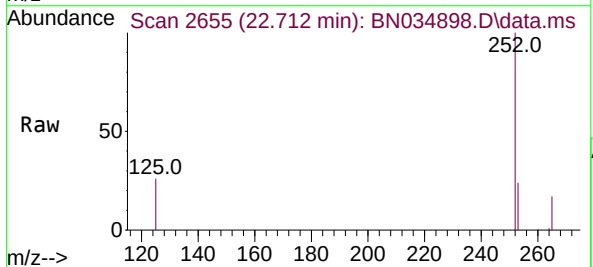
RT: 22.712 min Scan# 2655

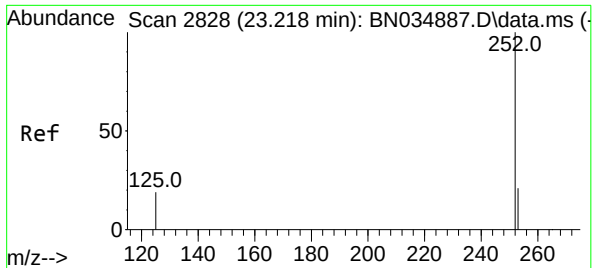
Delta R.T. 0.000 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

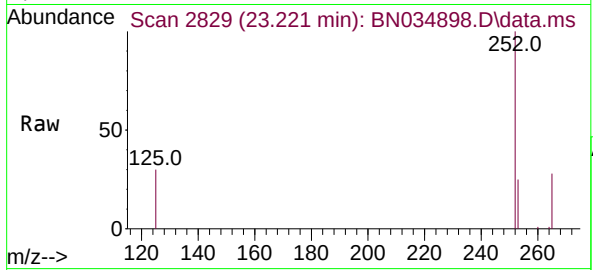
Tgt Ion:	252	Resp:	17383
Ion Ratio	Lower	Upper	
252	100		
253	23.5	19.8	29.8
125	25.6	22.6	33.8





#39
Benzo(a)pyrene
Concen: 0.377 ng
RT: 23.221 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

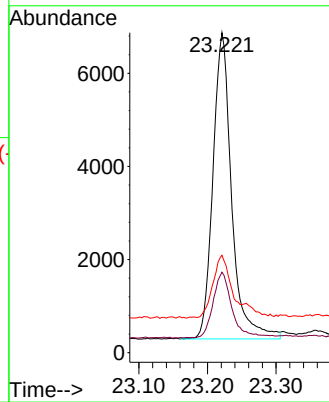
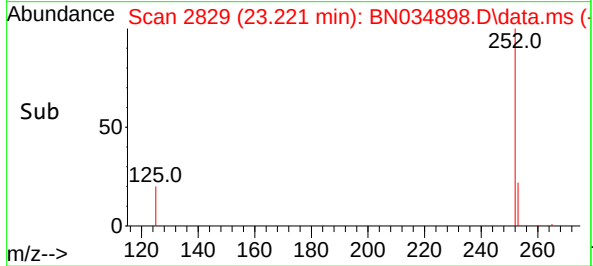
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:252 Resp: 12460
Ion Ratio Lower Upper
252 100
253 25.1 21.4 32.2
125 30.4 27.8 41.6

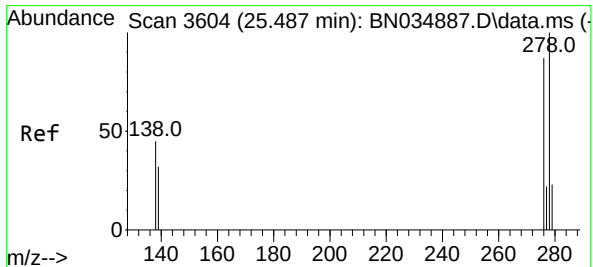
Manual Integrations
APPROVED

Reviewed By :Jagrut
Upadhyay



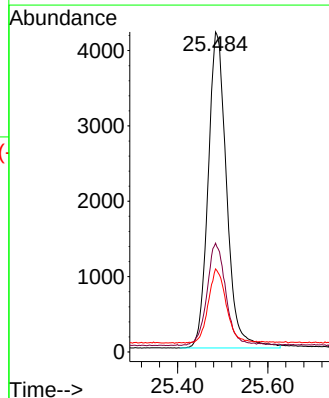
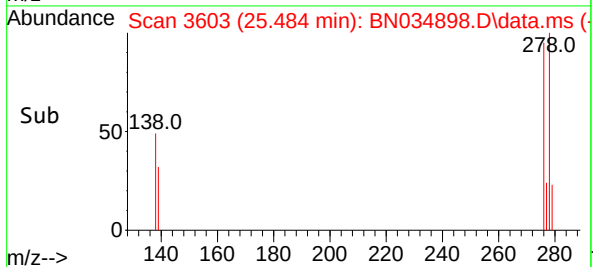
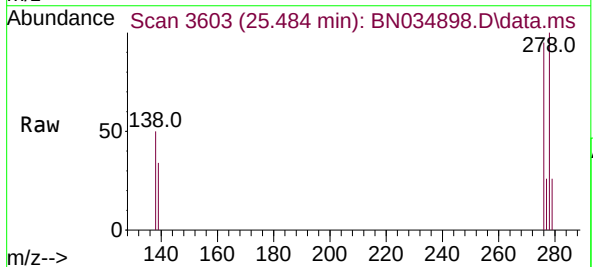
11/08/2024
Supervised By :mohammad
ahmed

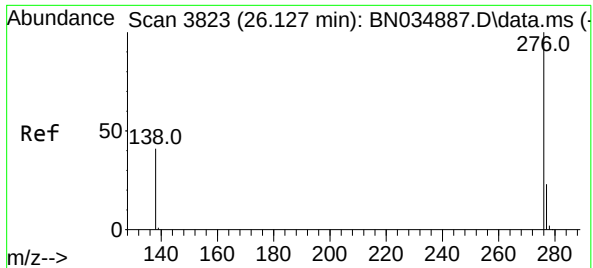
11/11/2024



#40
Dibenzo(a,h)anthracene
Concen: 0.364 ng
RT: 25.484 min Scan# 3603
Delta R.T. -0.003 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

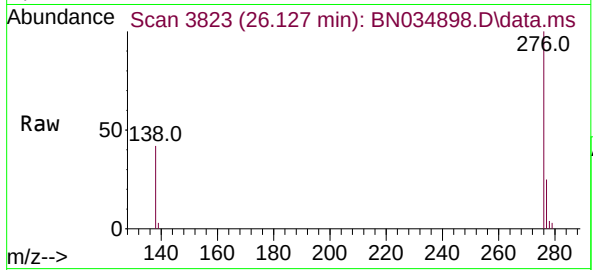
Tgt Ion:278 Resp: 11910
Ion Ratio Lower Upper
278 100
139 34.0 27.2 40.8
279 26.0 21.4 32.0





#41
Benzo(g,h,i)perylene
Concen: 0.378 ng
RT: 26.127 min Scan# 3823
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

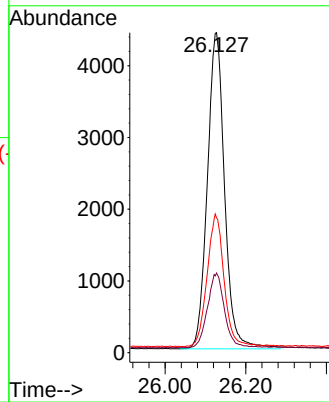
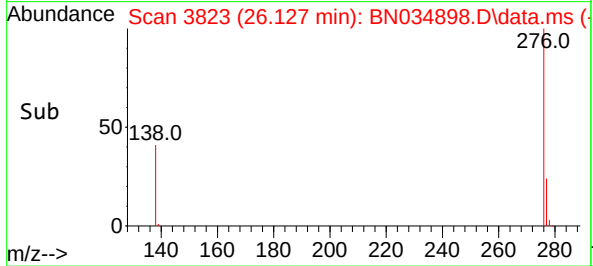
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 276 Resp: 1310
Ion Ratio Lower Upper
276 100
277 24.9 20.2 30.2
138 42.1 33.9 50.9

Manual Integrations
APPROVED

Reviewed By :Jagrut
Upadhyay



11/08/2024
Supervised By :mohammad
ahmed

11/11/2024

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
 Data File : BN034898.D
 Acq On : 08 Nov 2024 08:29
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Nov 08 09:57:12 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 07 15:02:36 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	104	0.00
2	1,4-Dioxane	0.505	0.457	9.5	100	0.00
3	n-Nitrosodimethylamine	0.682	0.609	10.7	102	0.00
4 S	2-Fluorophenol	1.115	0.972	12.8	100	0.00
5 S	Phenol-d6	1.480	1.313	11.3	105	0.00
6	bis(2-Chloroethyl)ether	1.277	1.208	5.4	107	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	108	0.00
8 S	Nitrobenzene-d5	0.312	0.279	10.6	107	0.00
9	Naphthalene	1.110	1.045	5.9	110	0.00
10	Hexachlorobutadiene	0.177	0.170	4.0	109	0.00
11 SURR	2-Methylnaphthalene-d10	0.545	0.496	9.0	109	0.00
12	2-Methylnaphthalene	0.679	0.626	7.8	110	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	112	-0.01
14 S	2,4,6-Tribromophenol	0.118	0.098	16.9	127	0.00
15 S	2-Fluorobiphenyl	1.690	1.536	9.1	112	-0.01
16	Acenaphthylene	1.929	1.688	12.5	113	0.00
17	Acenaphthene	1.335	1.190	10.9	114	0.00
18	Fluorene	1.662	1.503	9.6	115	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	119	0.00
20	4,6-Dinitro-2-methylphenol	0.044	0.031	29.5#	116	0.00
21	4-Bromophenyl-phenylether	0.213	0.194	8.9	115	-0.01
22	Hexachlorobenzene	0.257	0.255	0.8	121	0.00
23	Atrazine	0.154	0.134	13.0	120	0.00
24	Pentachlorophenol	0.077	0.065	15.6	141	0.00
25	Phenanthrene	1.227	1.181	3.7	121	0.00
26	Anthracene	1.058	0.978	7.6	121	0.00
27 SURR	Fluoranthene-d10	0.902	0.852	5.5	127	0.00
28	Fluoranthene	1.291	1.245	3.6	131	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	137	0.00
30	Pyrene	2.025	1.911	5.6	131	0.00
31 S	Terphenyl-d14	0.749	0.697	6.9	128	0.00
32	Benzo(a)anthracene	1.559	1.483	4.9	143	0.00
33	Chrysene	1.650	1.624	1.6	140	0.00
34	Bis(2-ethylhexyl)phthalate	0.895	0.727	18.8	138	0.00
35 I	Perylene-d12	1.000	1.000	0.0	139	0.00
36	Indeno(1,2,3-cd)pyrene	1.782	1.636	8.2	135	0.00
37	Benzo(b)fluoranthene	1.757	1.808	-2.9	143	0.00
38	Benzo(k)fluoranthene	1.828	1.833	-0.3	147	0.00
39 C	Benzo(a)pyrene	1.396	1.314	5.9	136	0.00
40	Dibenzo(a,h)anthracene	1.379	1.256	8.9	134	0.00
41	Benzo(g,h,i)perylene	1.464	1.382	5.6	129	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
Data File : BN034898.D
Acq On : 08 Nov 2024 08:29
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 08 09:57:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 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	104	0.00
2	1,4-Dioxane	0.400	0.362	9.5	100	0.00
3	n-Nitrosodimethylamine	0.400	0.357	10.8	102	0.00
4 S	2-Fluorophenol	0.400	0.349	12.8	100	0.00
5 S	Phenol-d6	0.400	0.355	11.3	105	0.00
6	bis(2-Chloroethyl)ether	0.400	0.378	5.5	107	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	108	0.00
8 S	Nitrobenzene-d5	0.400	0.357	10.8	107	0.00
9	Naphthalene	0.400	0.377	5.8	110	0.00
10	Hexachlorobutadiene	0.400	0.383	4.3	109	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.364	9.0	109	0.00
12	2-Methylnaphthalene	0.400	0.369	7.8	110	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	112	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.375	6.3	127	0.00
15 S	2-Fluorobiphenyl	0.400	0.364	9.0	112	-0.01
16	Acenaphthylene	0.400	0.350	12.5	113	0.00
17	Acenaphthene	0.400	0.356	11.0	114	0.00
18	Fluorene	0.400	0.362	9.5	115	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	119	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.355	11.3	116	0.00
21	4-Bromophenyl-phenylether	0.400	0.364	9.0	115	-0.01
22	Hexachlorobenzene	0.400	0.398	0.5	121	0.00
23	Atrazine	0.400	0.348	13.0	120	0.00
24	Pentachlorophenol	0.400	0.410	-2.5	141	0.00
25	Phenanthrene	0.400	0.385	3.8	121	0.00
26	Anthracene	0.400	0.370	7.5	121	0.00
27 SURR	Fluoranthene-d10	0.400	0.378	5.5	127	0.00
28	Fluoranthene	0.400	0.386	3.5	131	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	137	0.00
30	Pyrene	0.400	0.377	5.8	131	0.00
31 S	Terphenyl-d14	0.400	0.372	7.0	128	0.00
32	Benzo(a)anthracene	0.400	0.380	5.0	143	0.00
33	Chrysene	0.400	0.394	1.5	140	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.325	18.8	138	0.00
35 I	Perylene-d12	0.400	0.400	0.0	139	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.367	8.3	135	0.00
37	Benzo(b)fluoranthene	0.400	0.412	-3.0	143	0.00
38	Benzo(k)fluoranthene	0.400	0.401	-0.3	147	0.00
39 C	Benzo(a)pyrene	0.400	0.377	5.8	136	0.00
40	Dibenzo(a,h)anthracene	0.400	0.364	9.0	134	0.00
41	Benzo(g,h,i)perylene	0.400	0.378	5.5	129	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.: P4710 SAS No.: P4710 SDG No.: P4710

Instrument ID: BNA_N Calibration Date/Time: 11/08/2024 16:41

Lab File ID: BN034911.D Init. Calib. Date(s): 11/07/2024 11/07/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 10:02 13:49

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.545	0.486		-10.8	50.0
Fluoranthene-d10	0.902	0.830		-8.0	50.0
2-Fluorophenol	1.115	0.993		-10.9	50.0
Phenol-d6	1.480	1.324		-10.5	50.0
Nitrobenzene-d5	0.312	0.275		-11.9	50.0
2-Fluorobiphenyl	1.690	1.539		-8.9	50.0
2,4,6-Tribromophenol	0.118	0.094		-20.3	50.0
Terphenyl-d14	0.749	0.739		-1.3	50.0
1,4-Dioxane	0.505	0.476		-5.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
 Data File : BN034911.D
 Acq On : 08 Nov 2024 16:41
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Nov 08 17:33:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 07 15:02:36 2024
 Response via : Initial Calibration

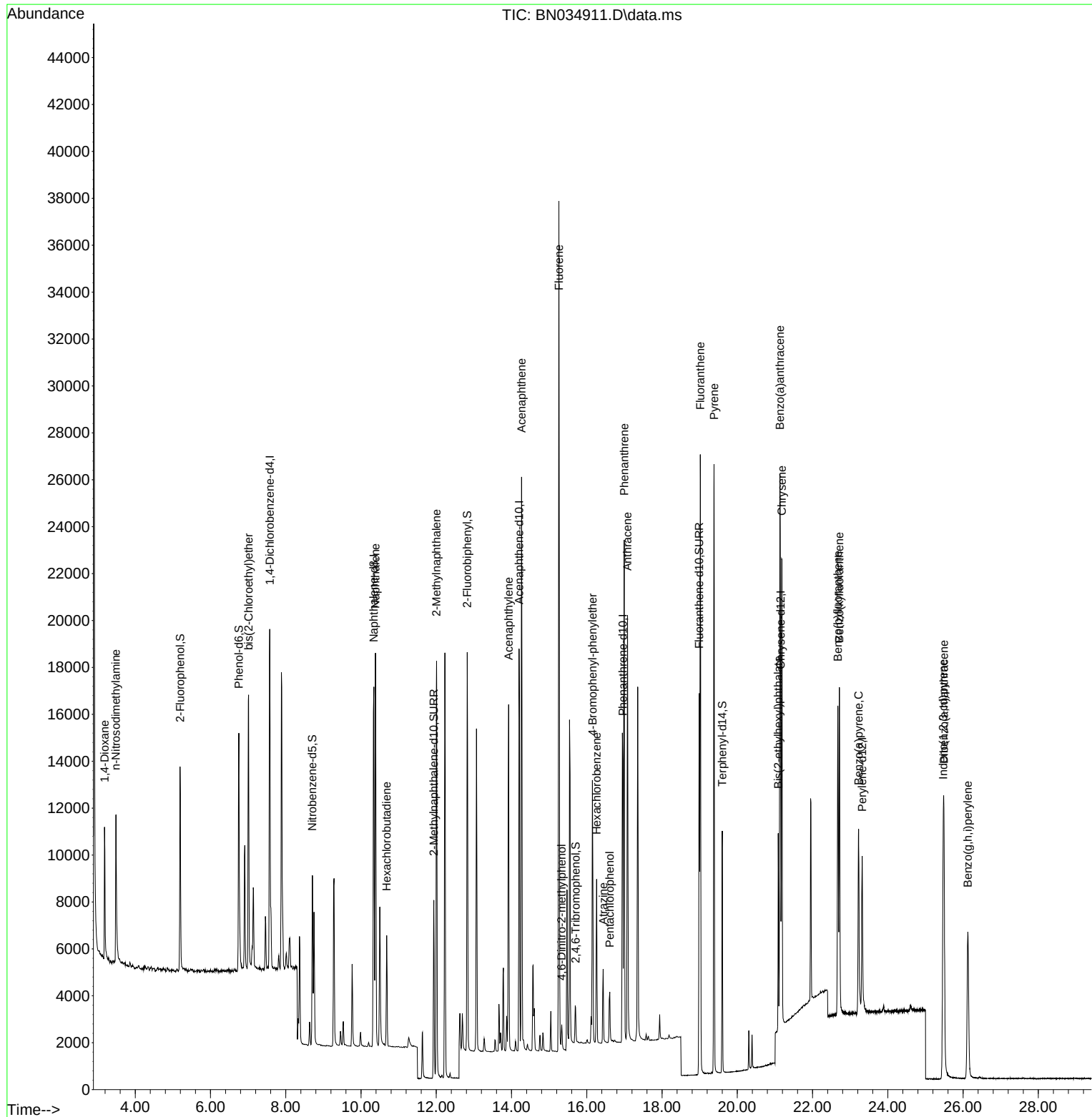
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	6918	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	20568	0.400	ng	0.00
13) Acenaphthene-d10	14.201	164	9535	0.400	ng	-0.01
19) Phenanthrene-d10	16.957	188	18628	0.400	ng	0.00
29) Chrysene-d12	21.152	240	10911	0.400	ng	0.00
35) Perylene-d12	23.320	264	8319	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.192	112	6870	0.356	ng	0.00
5) Phenol-d6	6.752	99	9156	0.358	ng	0.00
8) Nitrobenzene-d5	8.707	82	5665	0.353	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	9996	0.357	ng	0.00
14) 2,4,6-Tribromophenol	15.704	330	892	0.359	ng	0.00
15) 2-Fluorobiphenyl	12.822	172	14670	0.364	ng	-0.01
27) Fluoranthene-d10	18.987	212	15468	0.368	ng	0.00
31) Terphenyl-d14	19.601	244	8064	0.394	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.184	88	3296	0.377	ng	100
3) n-Nitrosodimethylamine	3.487	42	4559	0.387	ng	97
6) bis(2-Chloroethyl)ether	7.012	93	8180	0.370	ng	99
9) Naphthalene	10.383	128	21256	0.372	ng	100
10) Hexachlorobutadiene	10.682	225	3390	0.373	ng	# 98
12) 2-Methylnaphthalene	12.007	142	12653	0.362	ng	99
16) Acenaphthylene	13.923	152	16120	0.350	ng	100
17) Acenaphthene	14.265	154	11228	0.353	ng	99
18) Fluorene	15.259	166	14194	0.358	ng	99
20) 4,6-Dinitro-2-methylph...	15.334	198	627	0.381	ng	84
21) 4-Bromophenyl-phenylether	16.151	248	3581	0.361	ng	# 62
22) Hexachlorobenzene	16.262	284	4618	0.386	ng	99
23) Atrazine	16.436	200	2478	0.344	ng	96
24) Pentachlorophenol	16.610	266	1114	0.383	ng	96
25) Phenanthrene	16.995	178	22035	0.386	ng	100
26) Anthracene	17.082	178	18053	0.366	ng	99
28) Fluoranthene	19.015	202	22600	0.376	ng	99
30) Pyrene	19.382	202	22300	0.404	ng	100
32) Benzo(a)anthracene	21.134	228	16071	0.378	ng	99
33) Chrysene	21.187	228	17822	0.396	ng	99
34) Bis(2-ethylhexyl)phtha...	21.089	149	7872	0.322	ng	99
36) Indeno(1,2,3-cd)pyrene	25.472	276	13373	0.361	ng	98
37) Benzo(b)fluoranthene	22.671	252	15226	0.417	ng	99
38) Benzo(k)fluoranthene	22.712	252	15351	0.404	ng	97
39) Benzo(a)pyrene	23.224	252	11078	0.382	ng	95
40) Dibenzo(a,h)anthracene	25.490	278	10297	0.359	ng	98
41) Benzo(g,h,i)perylene	26.127	276	11290	0.371	ng	98

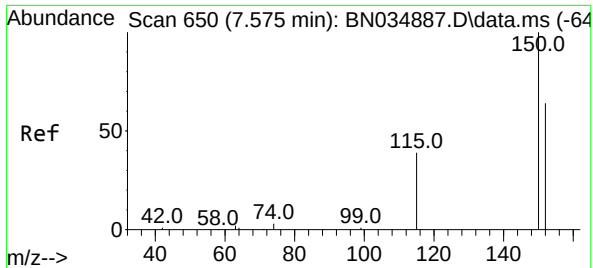
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
Data File : BN034911.D
Acq On : 08 Nov 2024 16:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Nov 08 17:33:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 2024
Response via : Initial Calibration

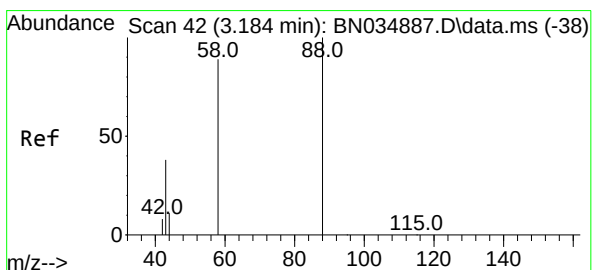
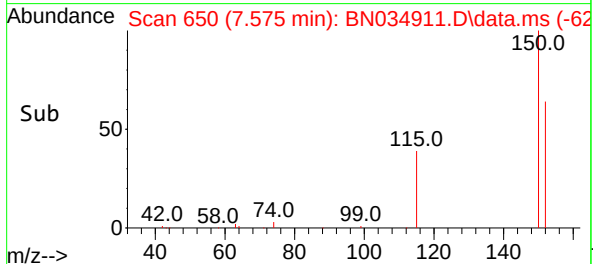
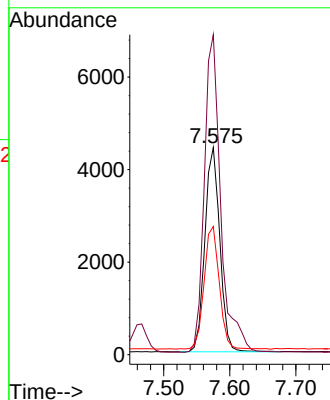
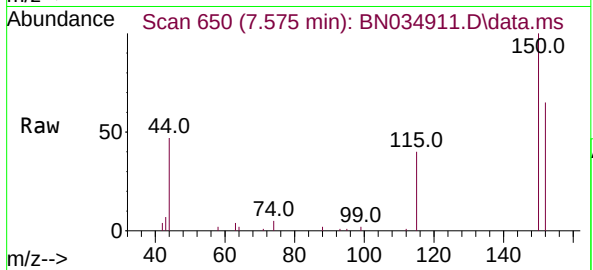




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

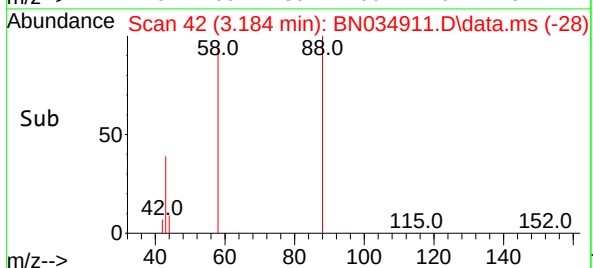
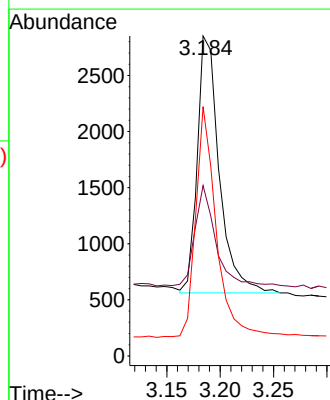
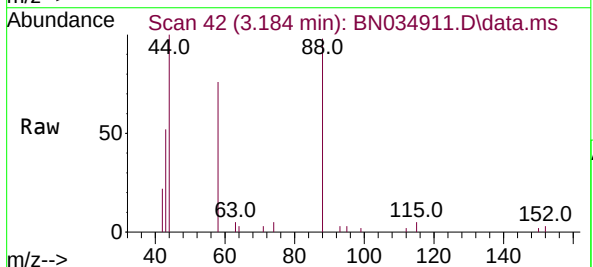
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 6918
Ion Ratio Lower Upper
152 100
150 154.4 124.4 186.6
115 61.8 50.5 75.7

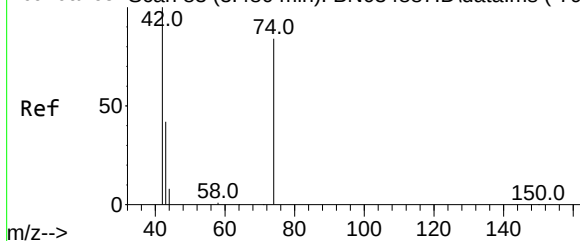


#2
1,4-Dioxane
Concen: 0.377 ng
RT: 3.184 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

Tgt Ion: 88 Resp: 3296
Ion Ratio Lower Upper
88 100
43 35.7 28.2 42.2
58 84.1 67.1 100.7



Abundance Scan 83 (3.480 min): BN034887.D\data.ms (-79)



#3

n-Nitrosodimethylamine

Concen: 0.387 ng

RT: 3.487 min Scan# 84

Delta R.T. 0.007 min

Lab File: BN034911.D

Acq: 08 Nov 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 4559

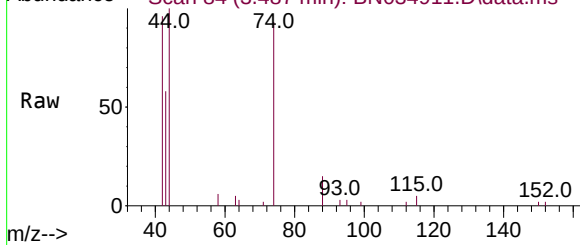
Ion Ratio Lower Upper

42 100

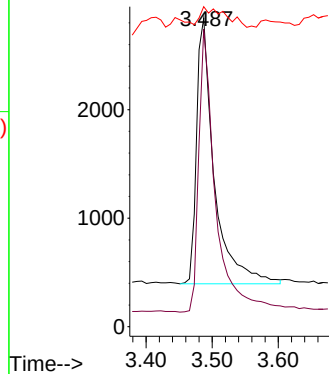
74 101.1 83.4 125.2

44 11.8 8.6 12.8

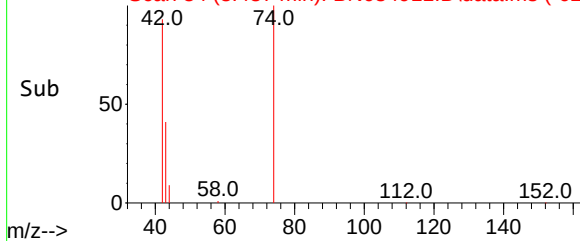
Abundance Scan 84 (3.487 min): BN034911.D\data.ms



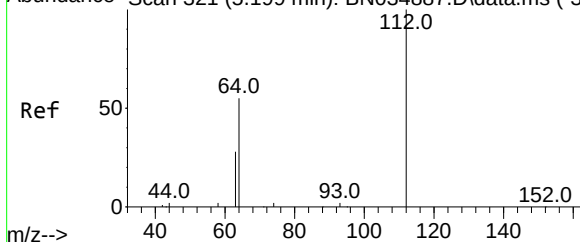
Abundance



Abundance Scan 84 (3.487 min): BN034911.D\data.ms (-62)



Abundance Scan 321 (5.199 min): BN034887.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.356 ng

RT: 5.192 min Scan# 320

Delta R.T. -0.007 min

Lab File: BN034911.D

Acq: 08 Nov 2024 16:41

Tgt Ion: 112 Resp: 6870

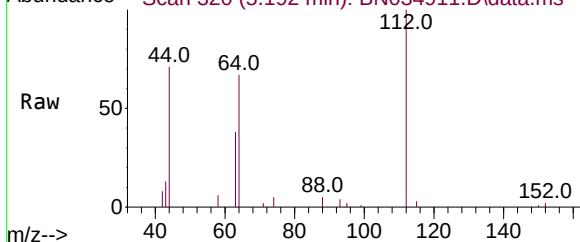
Ion Ratio Lower Upper

112 100

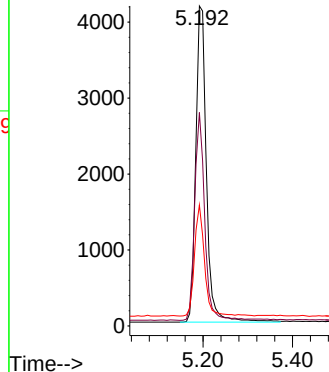
64 61.9 49.6 74.4

63 32.5 26.3 39.5

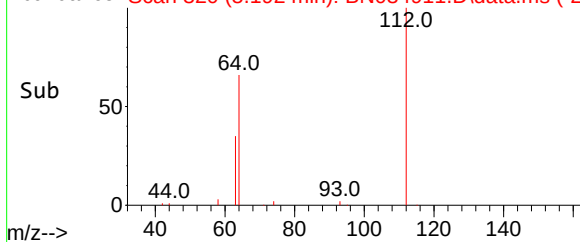
Abundance Scan 320 (5.192 min): BN034911.D\data.ms

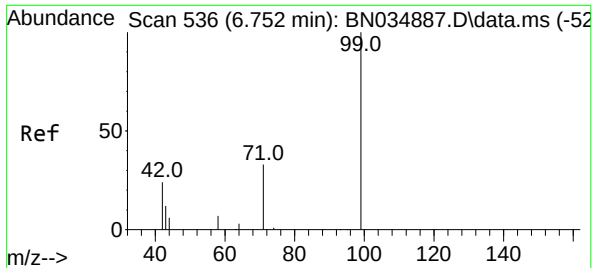


Abundance



Abundance Scan 320 (5.192 min): BN034911.D\data.ms (-29)

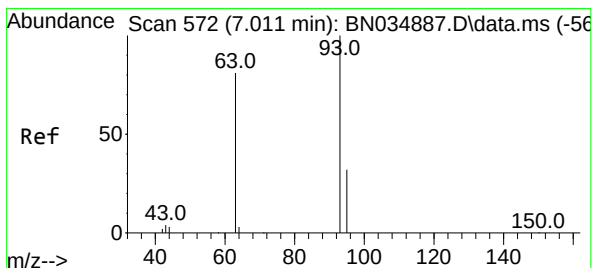
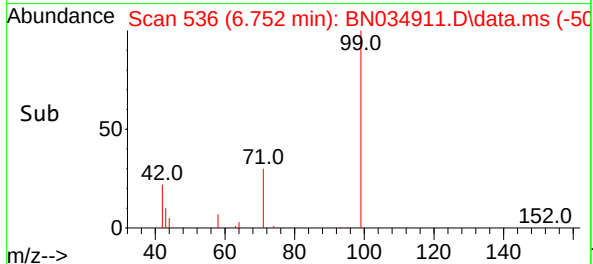
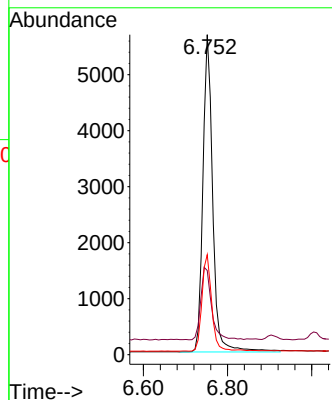
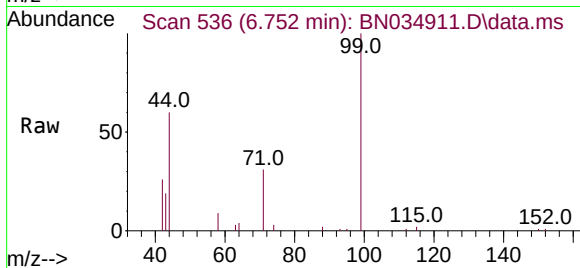




#5
Phenol-d6
Concen: 0.358 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

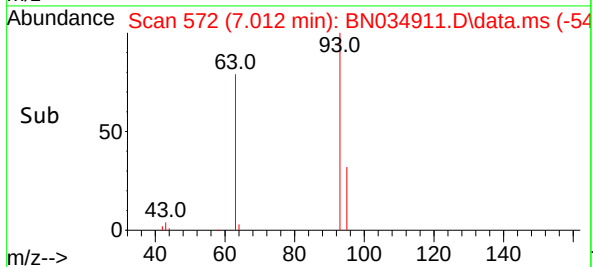
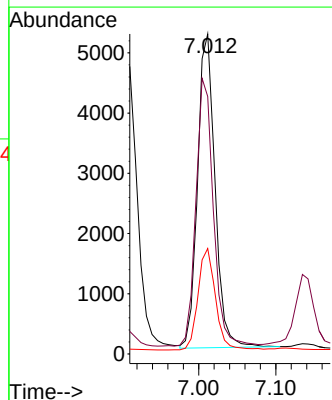
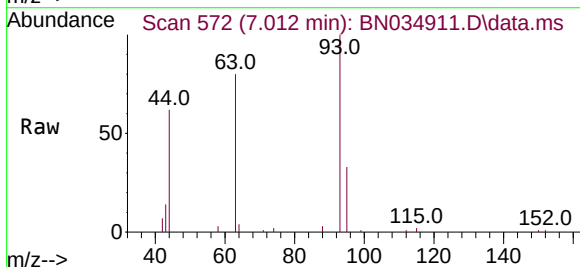
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

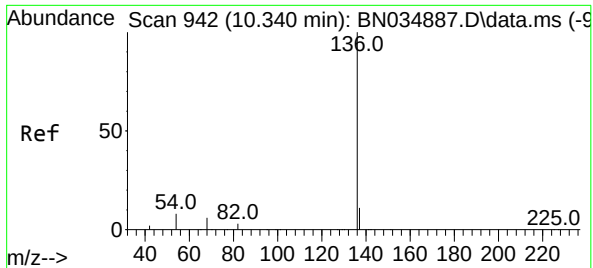
Tgt Ion:	99	Resp:	9156
Ion	Ratio	Lower	Upper
99	100		
42	25.0	20.2	30.2
71	30.0	25.4	38.0



#6
bis(2-Chloroethyl)ether
Concen: 0.370 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

Tgt Ion:	93	Resp:	8180
Ion	Ratio	Lower	Upper
93	100		
63	85.3	67.5	101.3
95	32.5	25.7	38.5

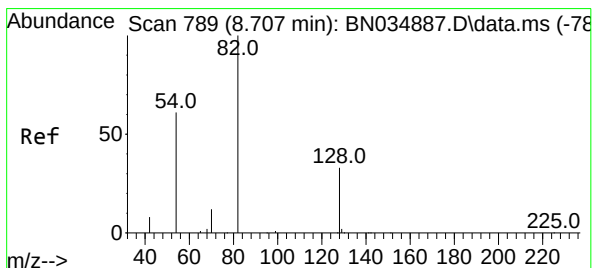
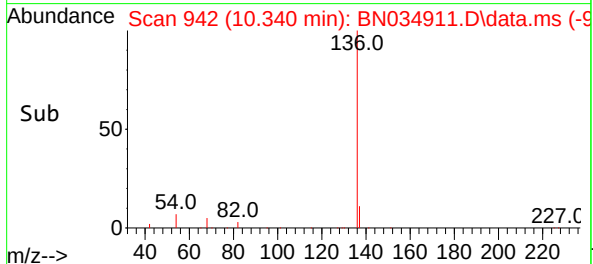
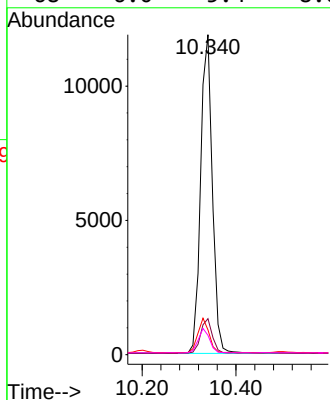
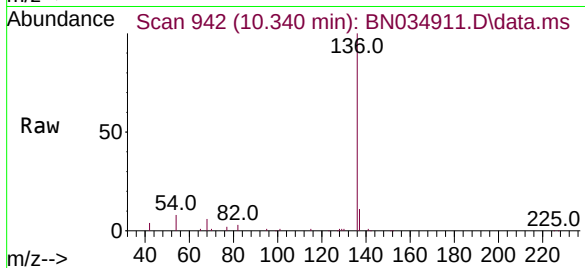




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

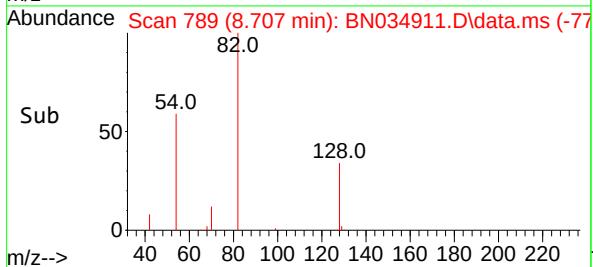
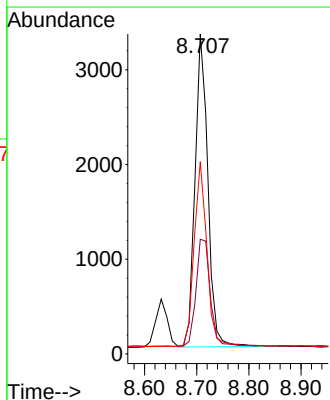
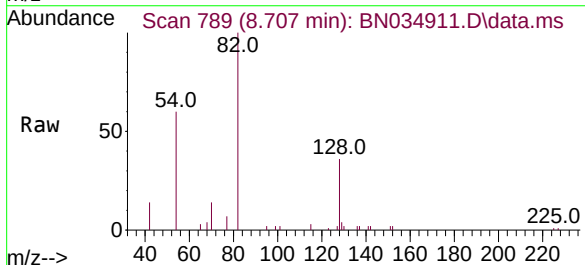
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

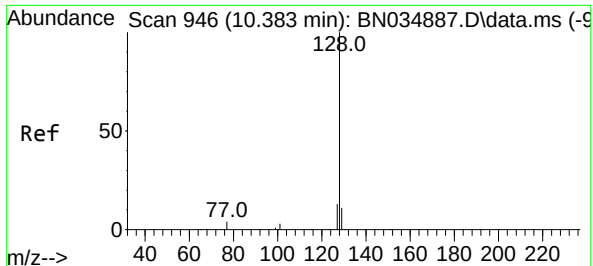
Tgt Ion:	136	Resp:	20568
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	7.8	6.9	10.3
68	6.0	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.353 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

Tgt Ion:	82	Resp:	5665
Ion	Ratio	Lower	Upper
82	100		
128	35.9	28.1	42.1
54	60.1	49.8	74.6

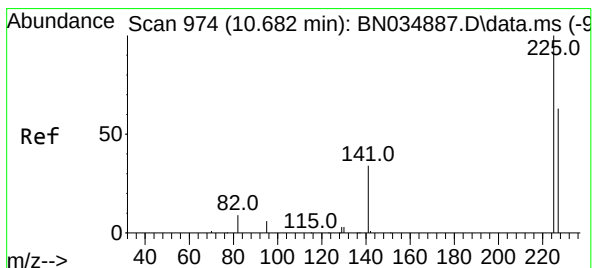
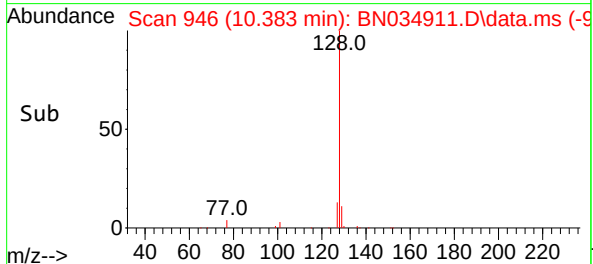
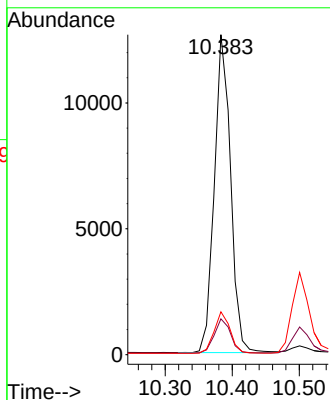
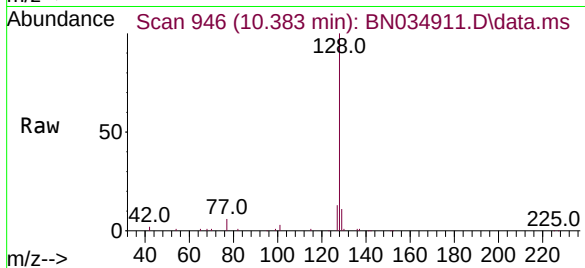




#9
Naphthalene
Concen: 0.372 ng
RT: 10.383 min Scan# 946
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

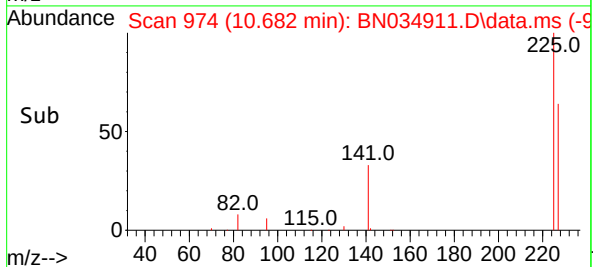
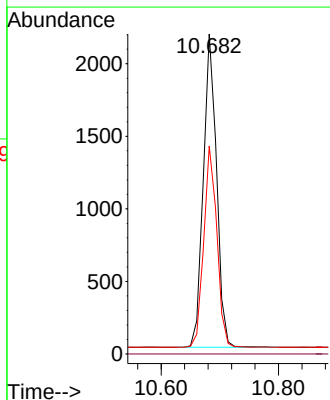
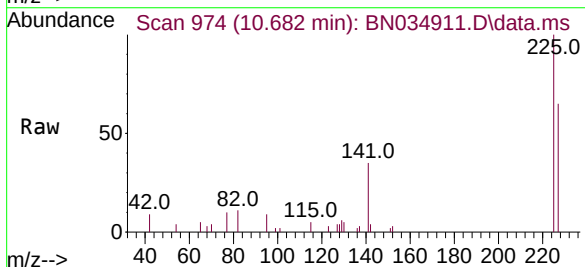
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

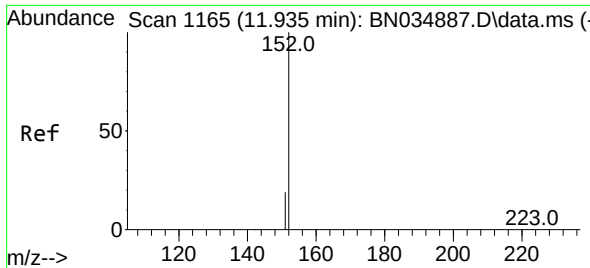
Tgt Ion:	128	Resp:	21256
Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.4
127	13.4	10.8	16.2



#10
Hexachlorobutadiene
Concen: 0.373 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

Tgt Ion:	225	Resp:	3390
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	52.0	78.0

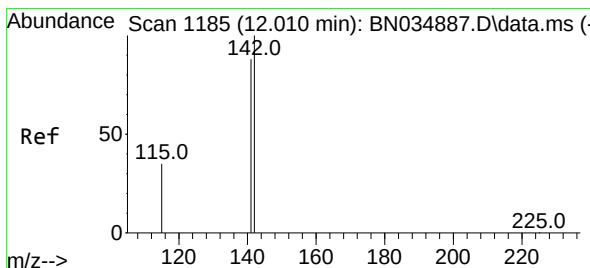
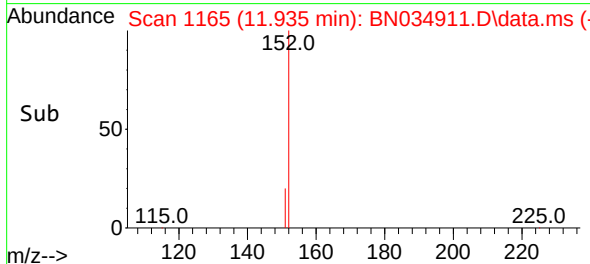
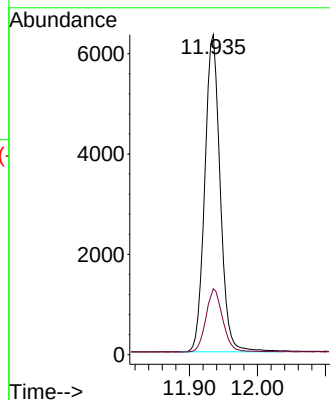
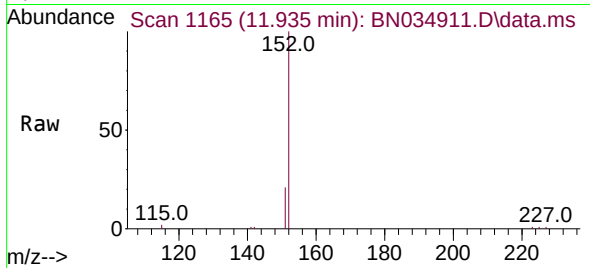




#11
2-Methylnaphthalene-d10
Concen: 0.357 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

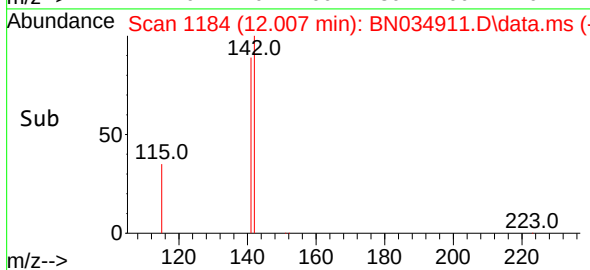
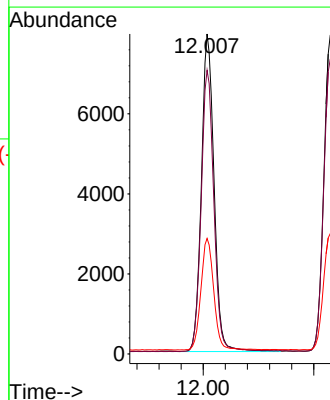
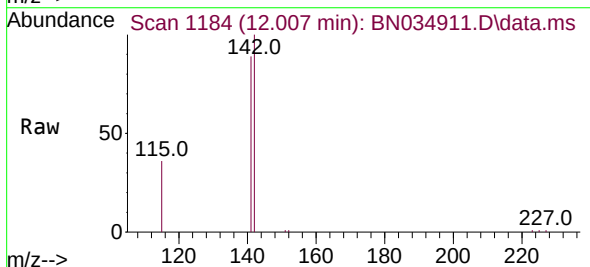
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

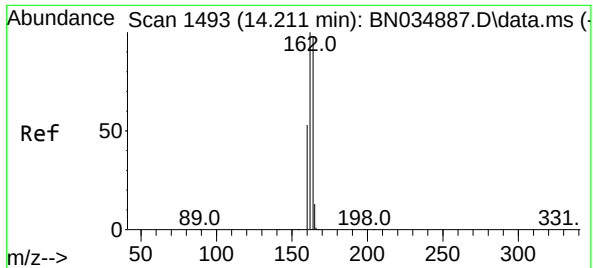
Tgt Ion:152 Resp: 9996
Ion Ratio Lower Upper
152 100
151 21.7 17.1 25.7



#12
2-Methylnaphthalene
Concen: 0.362 ng
RT: 12.007 min Scan# 1184
Delta R.T. -0.004 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

Tgt Ion:142 Resp: 12653
Ion Ratio Lower Upper
142 100
141 88.6 70.5 105.7
115 36.1 29.4 44.2

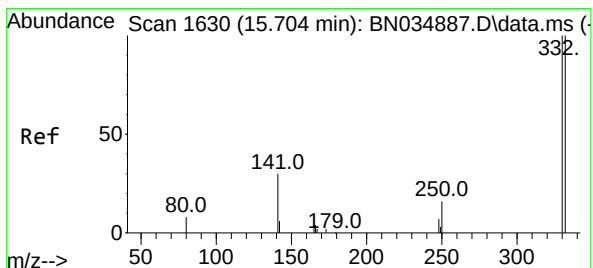
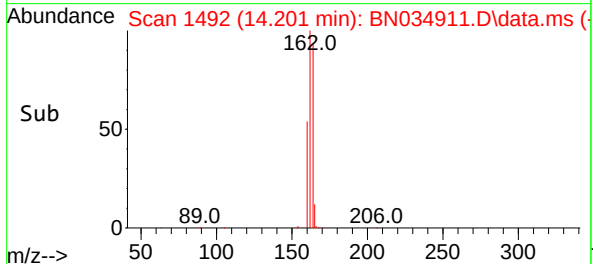
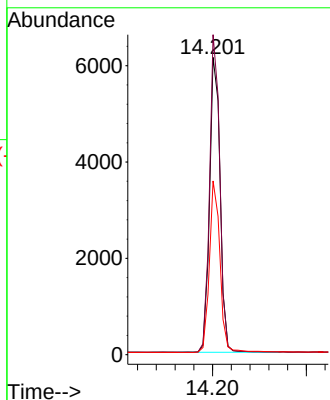
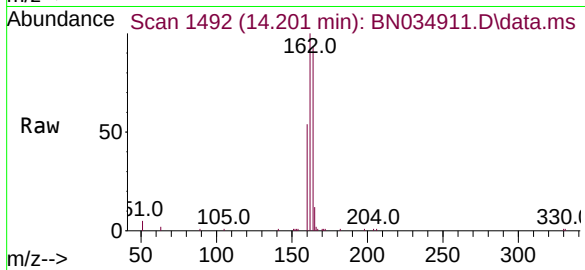




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.201 min Scan# 1492
Delta R.T. -0.010 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

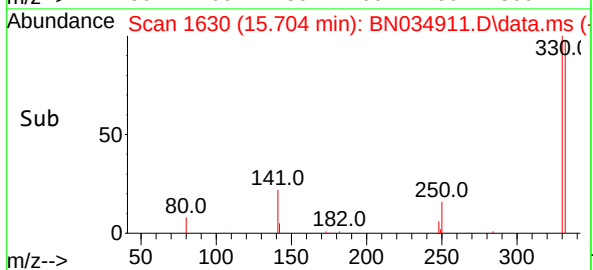
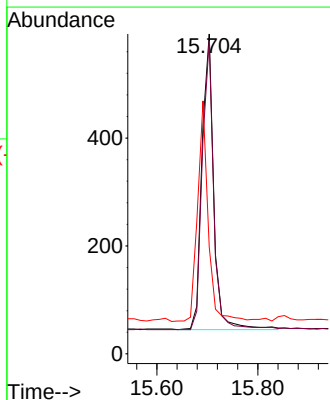
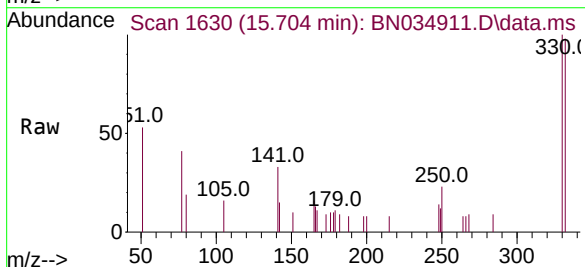
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

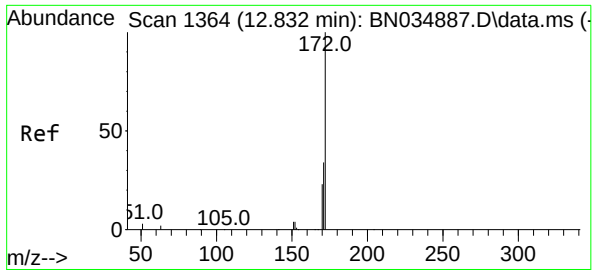
Tgt Ion:164 Resp: 9535
Ion Ratio Lower Upper
164 100
162 107.7 81.9 122.9
160 58.5 43.5 65.3



#14
2,4,6-Tribromophenol
Concen: 0.359 ng
RT: 15.704 min Scan# 1630
Delta R.T. -0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

Tgt Ion:330 Resp: 892
Ion Ratio Lower Upper
330 100
332 94.4 77.1 115.7
141 65.9 54.1 81.1

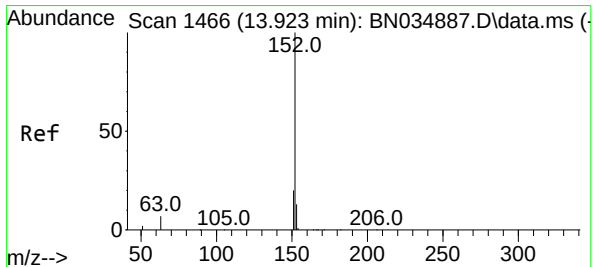
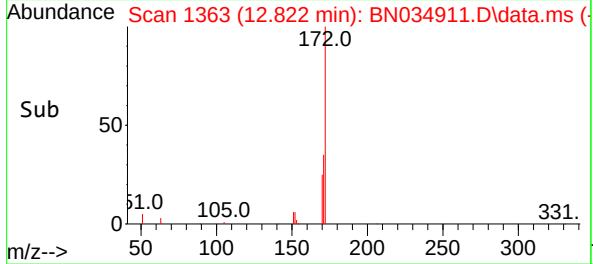
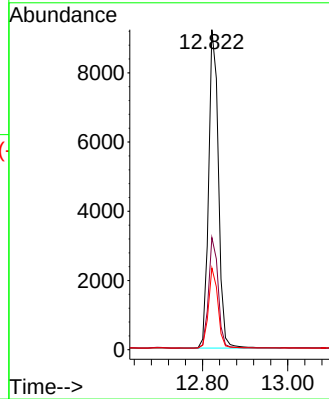
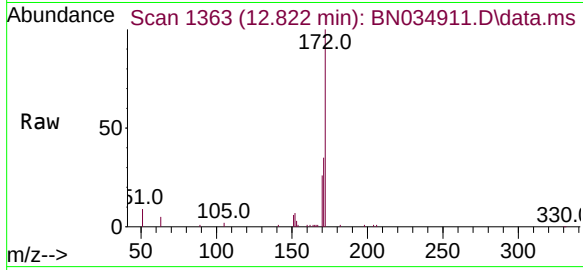




#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 12.822 min Scan# 1364
Delta R.T. -0.011 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

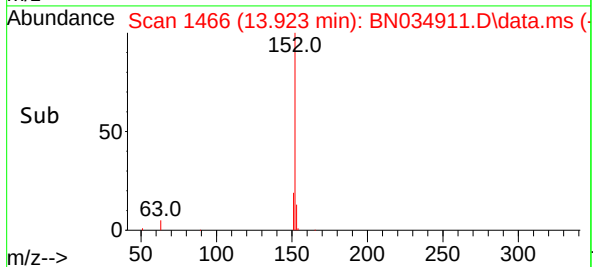
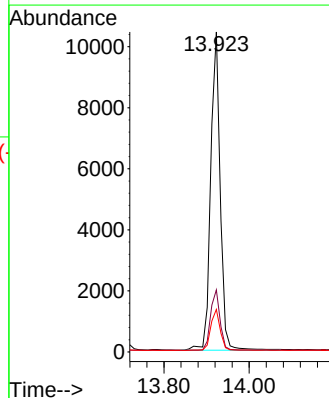
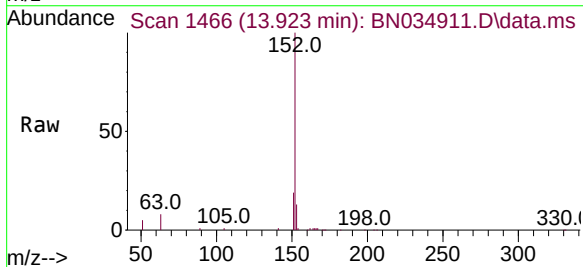
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

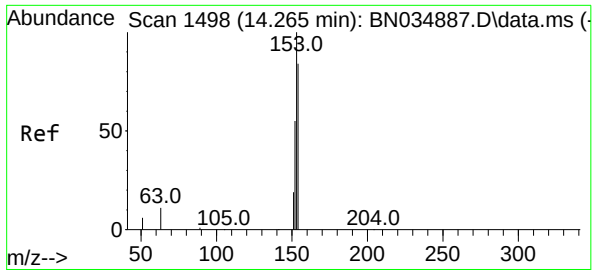
Tgt Ion:	172	Resp:	14670
Ion Ratio	Lower	Upper	
172	100		
171	35.0	27.9	41.9
170	25.5	19.0	28.4



#16
Acenaphthylene
Concen: 0.350 ng
RT: 13.923 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

Tgt Ion:	152	Resp:	16120
Ion Ratio	Lower	Upper	
152	100		
151	18.9	15.2	22.8
153	12.8	10.4	15.6

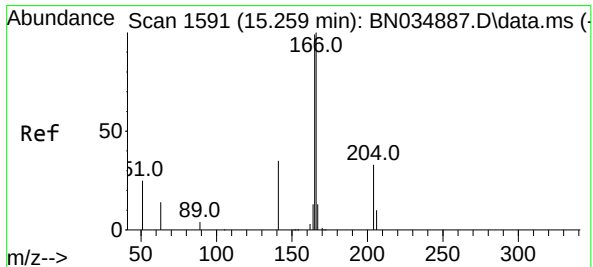
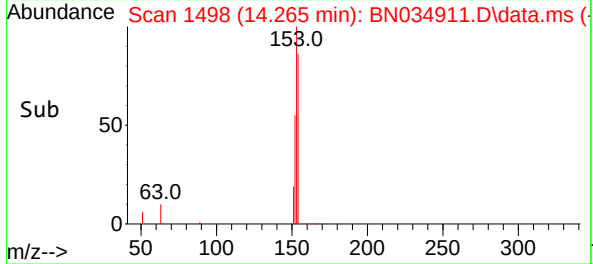
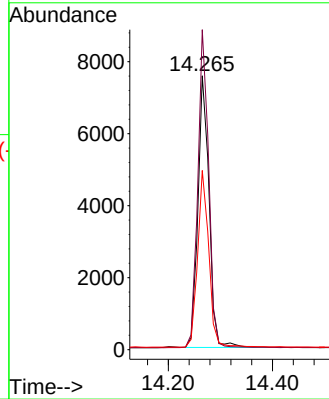
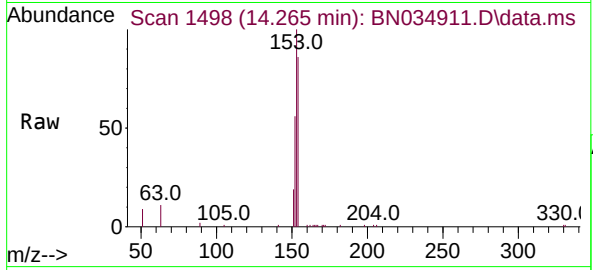




#17
Acenaphthene
Concen: 0.353 ng
RT: 14.265 min Scan# 1498
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

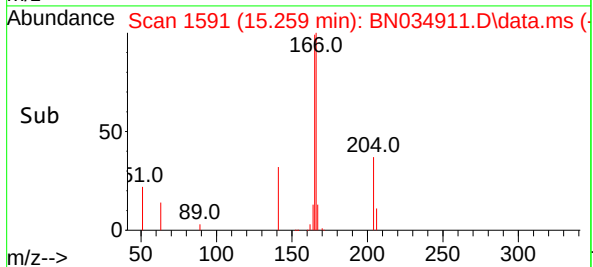
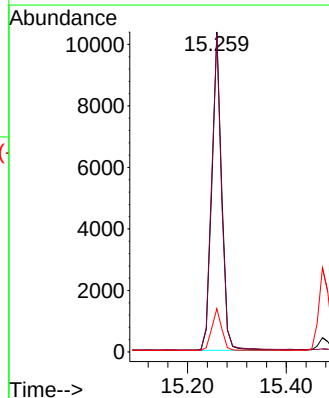
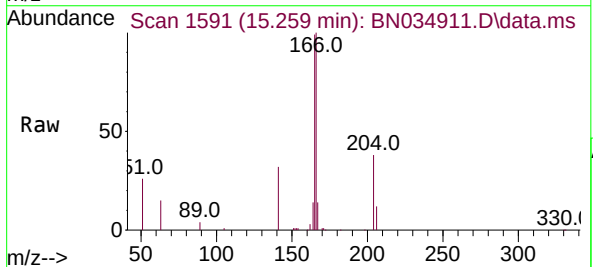
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

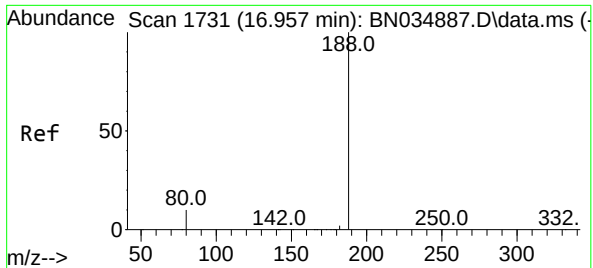
Tgt Ion:154 Resp: 11228
Ion Ratio Lower Upper
154 100
153 114.8 92.2 138.2
152 65.5 51.1 76.7



#18
Fluorene
Concen: 0.358 ng
RT: 15.259 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

Tgt Ion:166 Resp: 14194
Ion Ratio Lower Upper
166 100
165 99.9 79.5 119.3
167 13.4 10.6 16.0

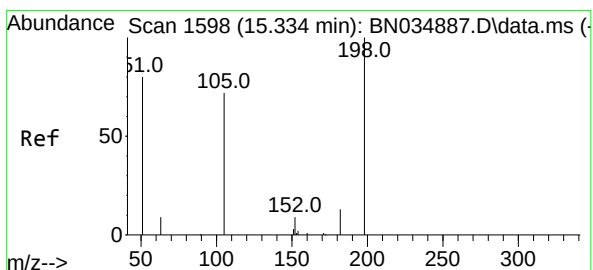
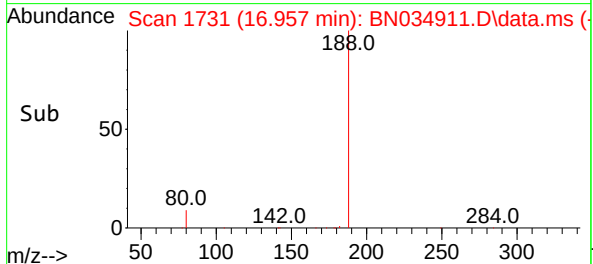
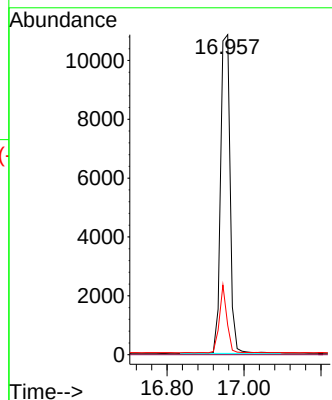
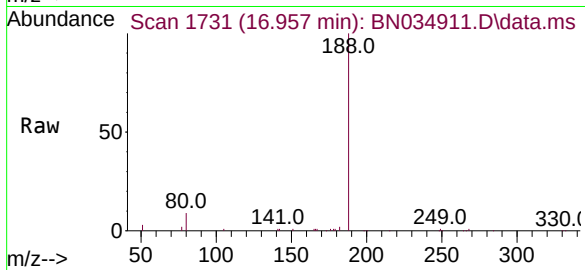




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.957 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

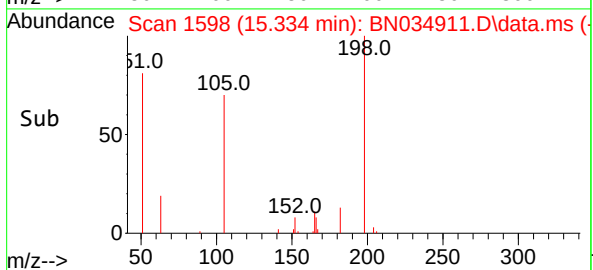
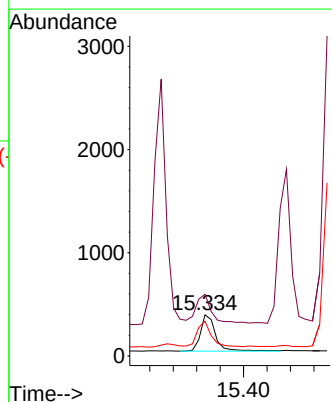
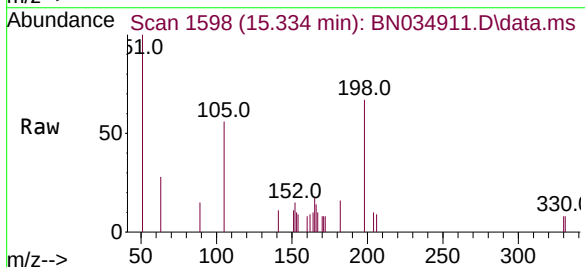
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

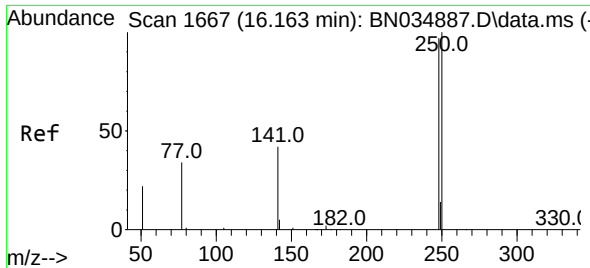
Tgt Ion:188 Resp: 18628
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.2 8.6 12.8



#20
4,6-Dinitro-2-methylphenol
Concen: 0.381 ng
RT: 15.334 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

Tgt Ion:198 Resp: 627
Ion Ratio Lower Upper
198 100
51 149.9 141.8 212.8
105 84.2 75.6 113.4

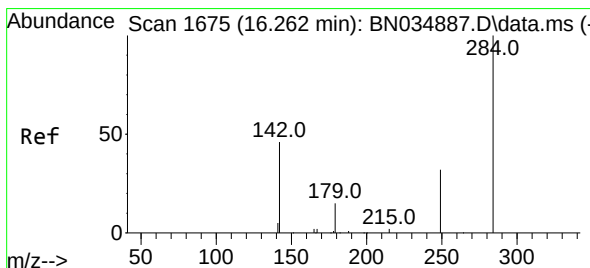
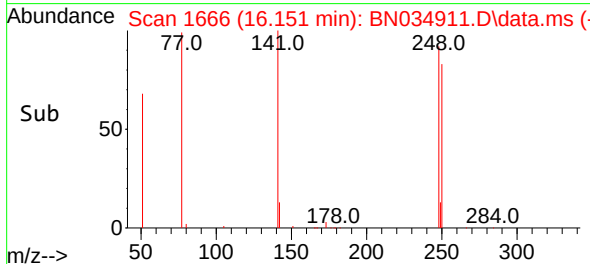
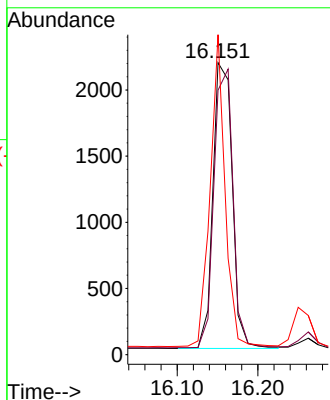
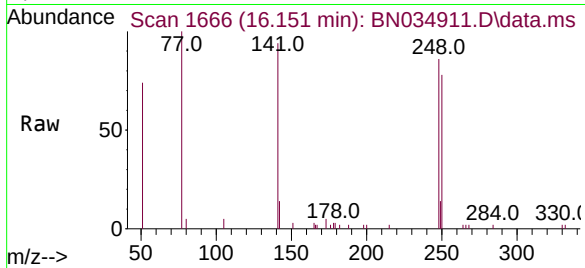




#21
4-Bromophenyl-phenylether
Concen: 0.361 ng
RT: 16.151 min Scan# 1666
Delta R.T. -0.012 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

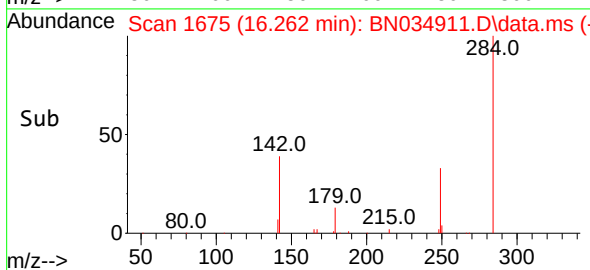
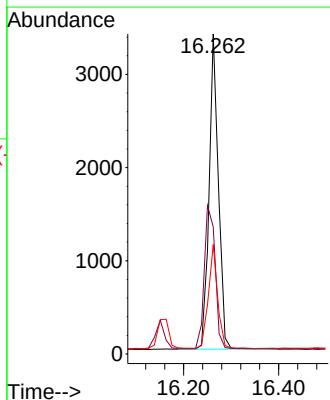
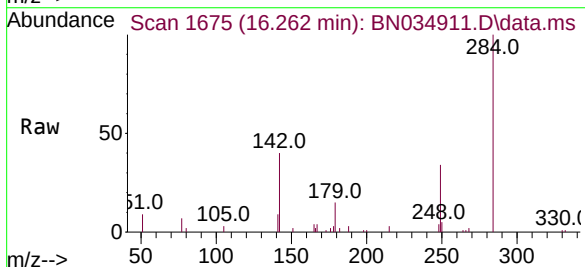
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

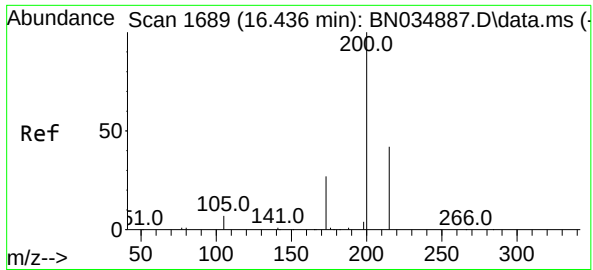
Tgt Ion	Ratio	Lower	Upper
248	100		
250	90.5	82.2	123.4
141	109.6	36.2	54.2



#22
Hexachlorobenzene
Concen: 0.386 ng
RT: 16.262 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

Tgt Ion	Ratio	Lower	Upper
284	100		
142	53.3	43.4	65.2
249	32.8	25.8	38.6

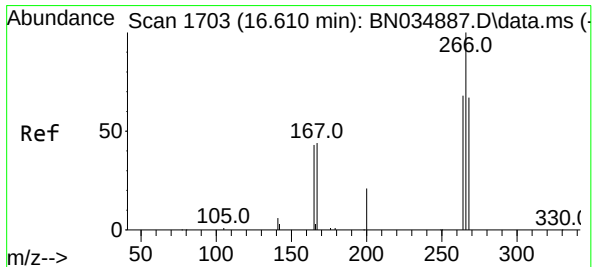
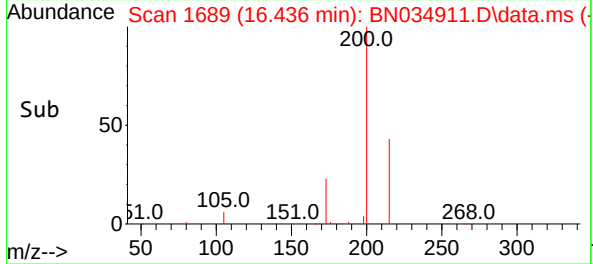
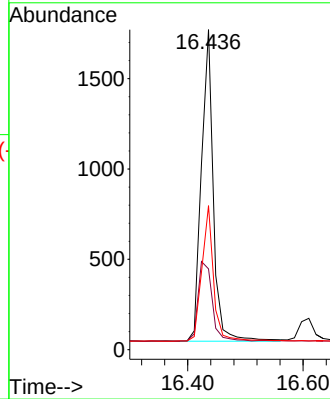
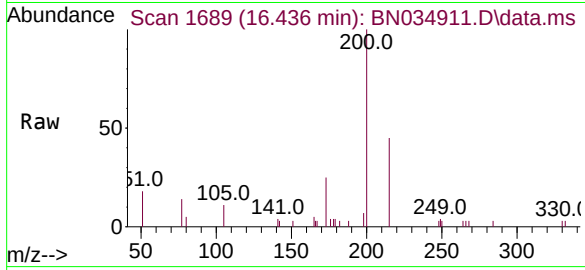




#23
Atrazine
Concen: 0.344 ng
RT: 16.436 min Scan# 1689
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

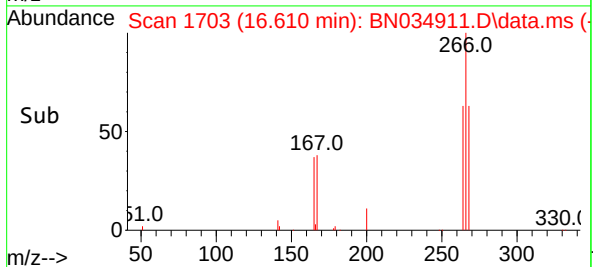
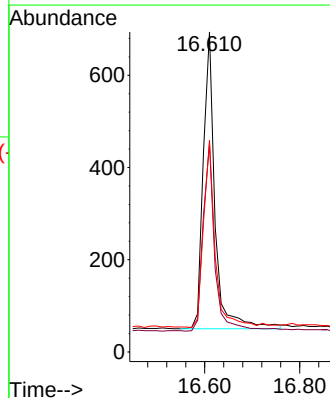
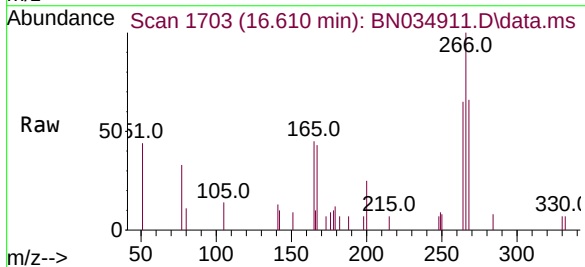
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

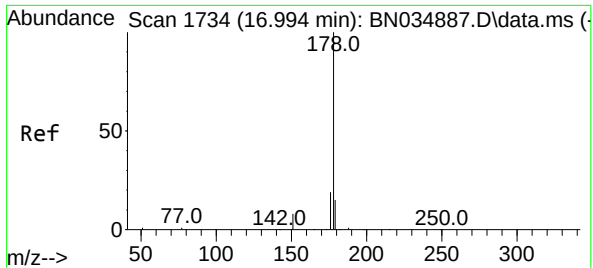
Tgt Ion:200 Resp: 2478
Ion Ratio Lower Upper
200 100
173 25.2 23.4 35.2
215 45.0 35.4 53.0



#24
Pentachlorophenol
Concen: 0.383 ng
RT: 16.610 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

Tgt Ion:266 Resp: 1114
Ion Ratio Lower Upper
266 100
264 63.2 51.3 76.9
268 60.9 53.0 79.6

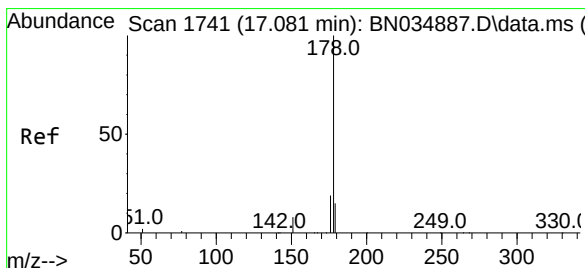
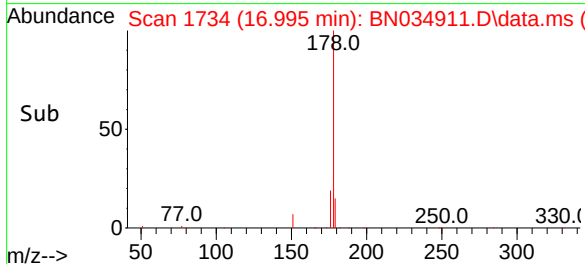
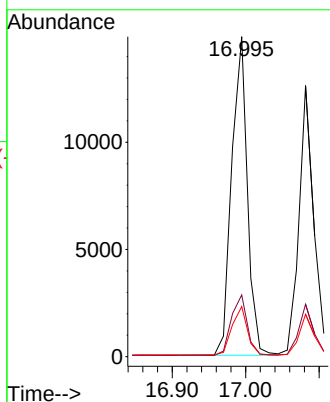
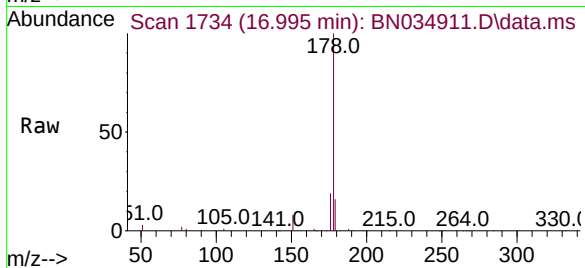




#25
Phenanthrene
Concen: 0.386 ng
RT: 16.995 min Scan# 1734
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

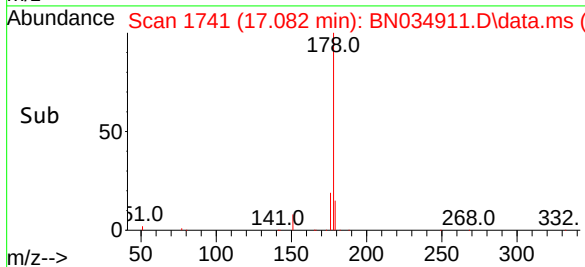
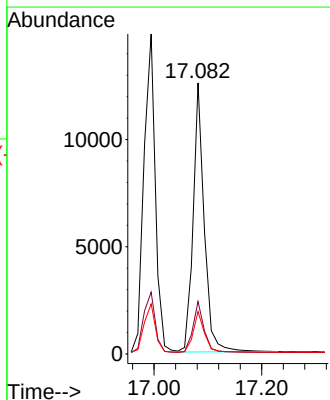
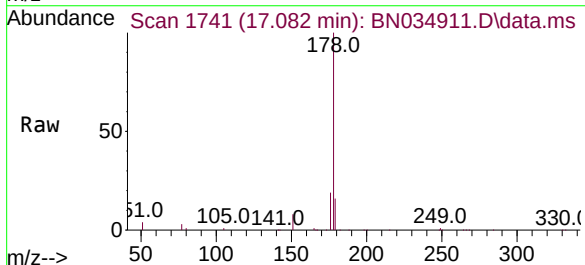
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

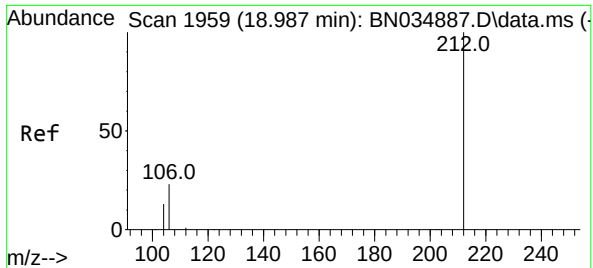
Tgt Ion:178 Resp: 22035
Ion Ratio Lower Upper
178 100
176 19.3 15.5 23.3
179 15.0 12.2 18.2



#26
Anthracene
Concen: 0.366 ng
RT: 17.082 min Scan# 1741
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

Tgt Ion:178 Resp: 18053
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.3 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.368 ng

RT: 18.987 min Scan# 1959

Delta R.T. 0.000 min

Lab File: BN034911.D

Acq: 08 Nov 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

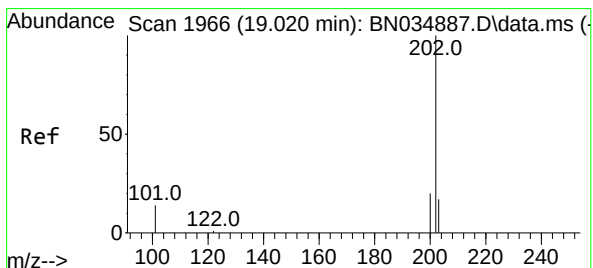
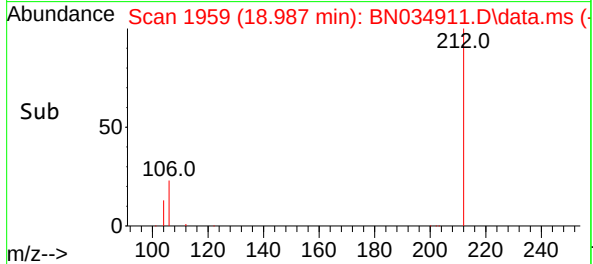
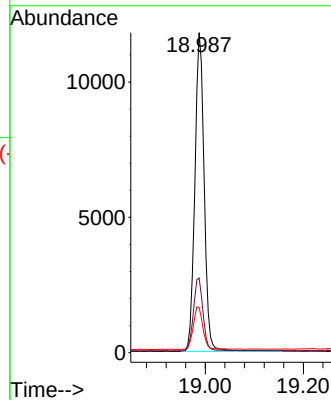
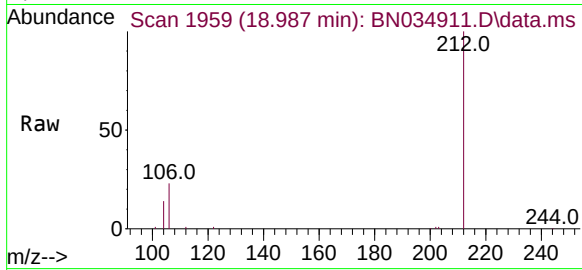
Tgt Ion:212 Resp: 15468

Ion Ratio Lower Upper

212 100

106 23.5 18.2 27.4

104 13.7 10.6 15.8



#28

Fluoranthene

Concen: 0.376 ng

RT: 19.015 min Scan# 1965

Delta R.T. -0.004 min

Lab File: BN034911.D

Acq: 08 Nov 2024 16:41

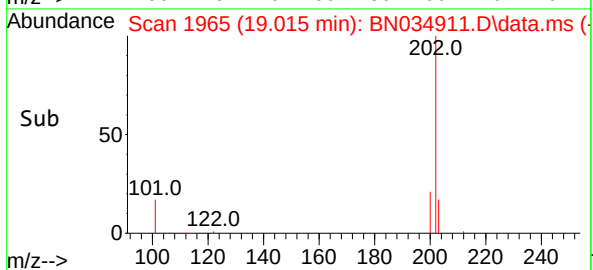
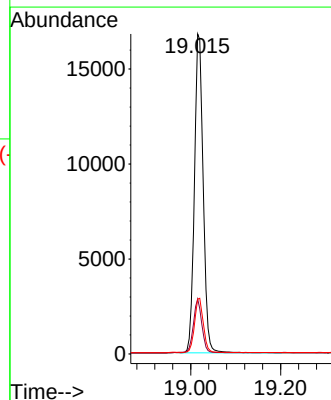
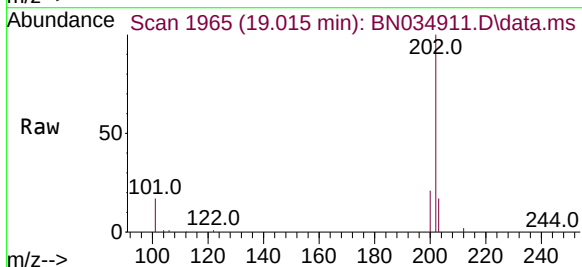
Tgt Ion:202 Resp: 22600

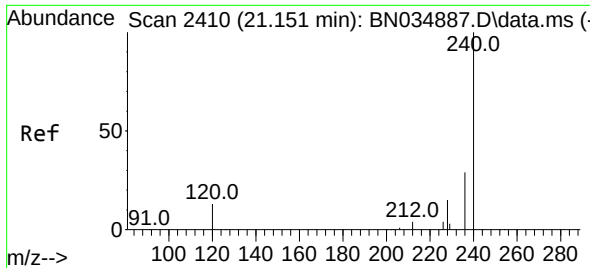
Ion Ratio Lower Upper

202 100

101 16.4 12.7 19.1

203 17.0 13.7 20.5

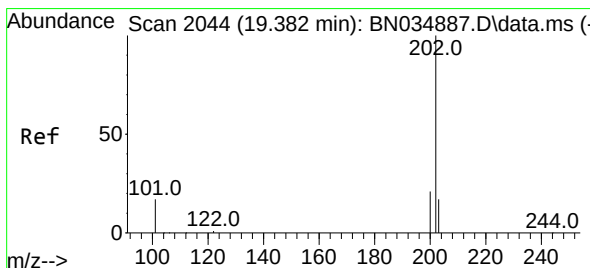
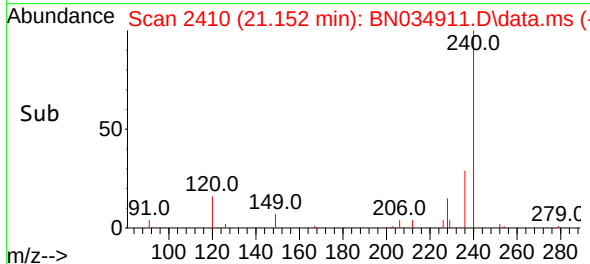
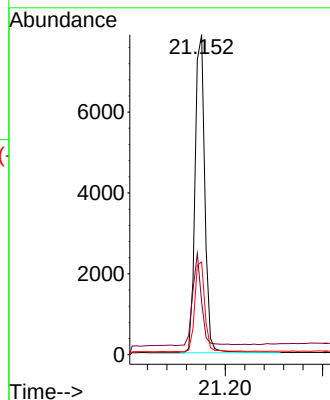
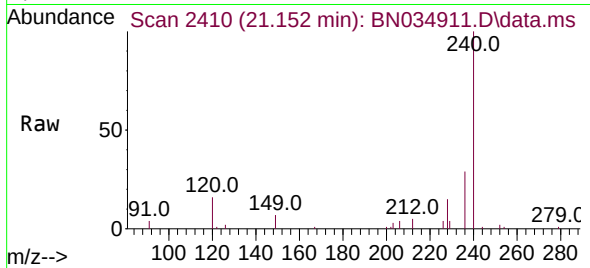




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.152 min Scan# 2410
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

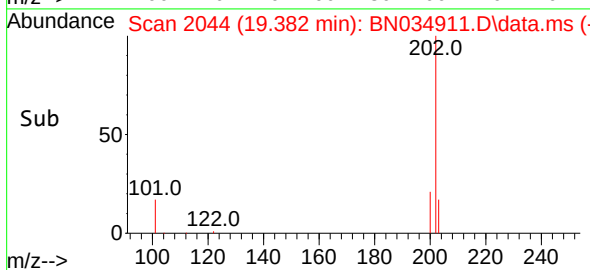
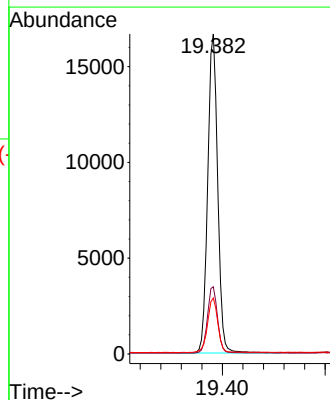
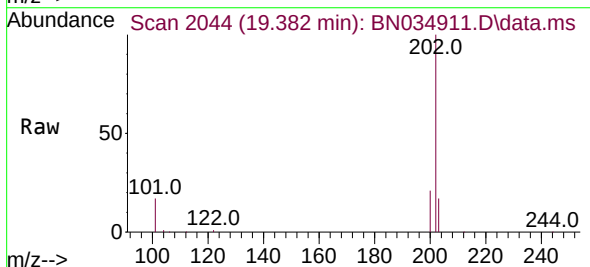
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

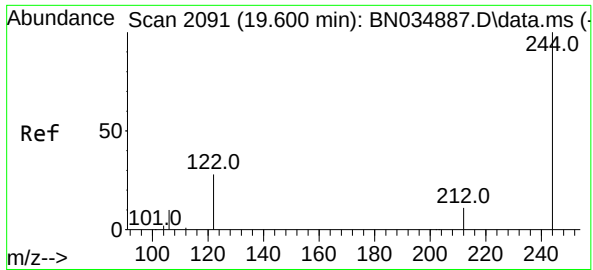
Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.4	13.8	20.8
236	29.0	23.8	35.6



#30
Pyrene
Concen: 0.404 ng
RT: 19.382 min Scan# 2044
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.5	14.1	21.1

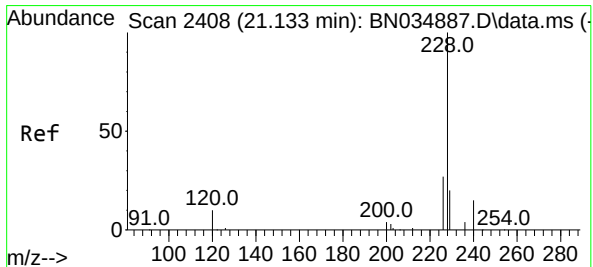
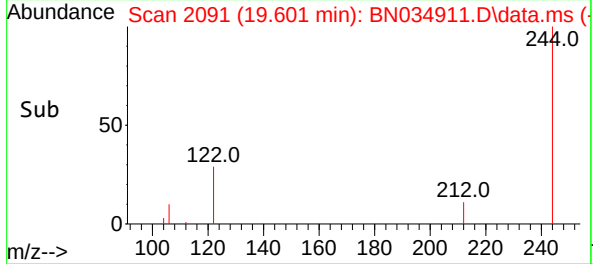
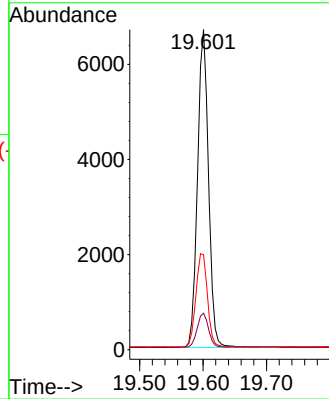
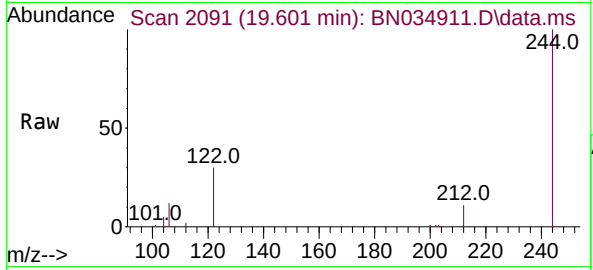




#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.601 min Scan# 2091
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

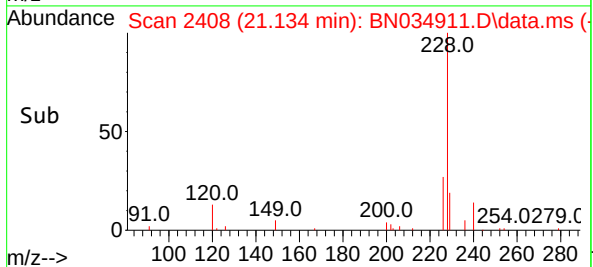
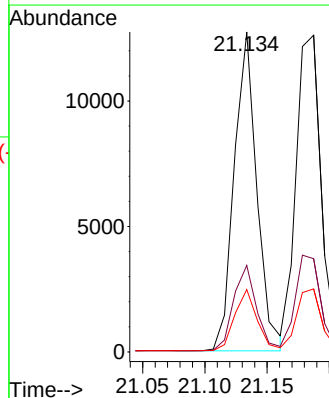
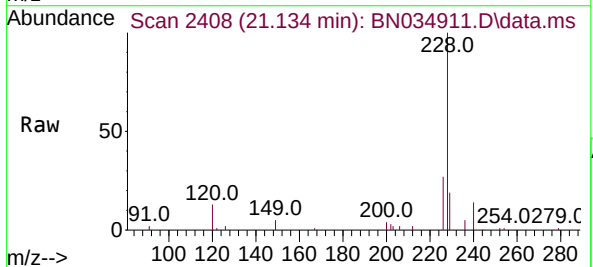
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

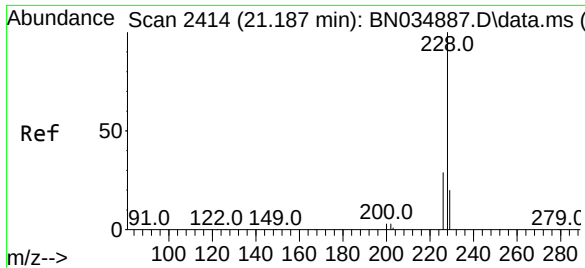
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.4	9.4	14.0
122	29.6	23.0	34.4



#32
Benzo(a)anthracene
Concen: 0.378 ng
RT: 21.134 min Scan# 2408
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.0	22.2	33.2
229	19.5	16.0	24.0

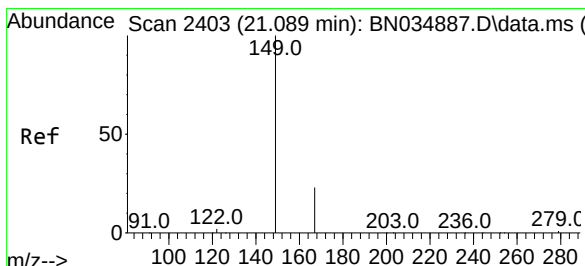
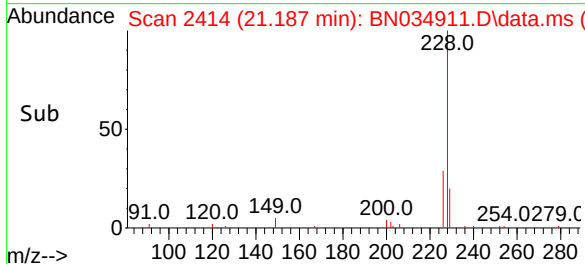
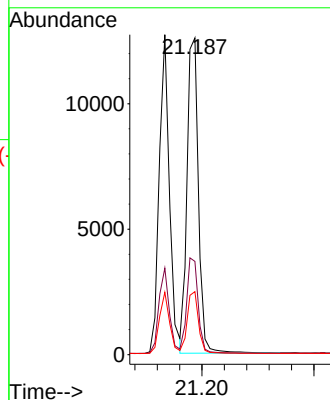
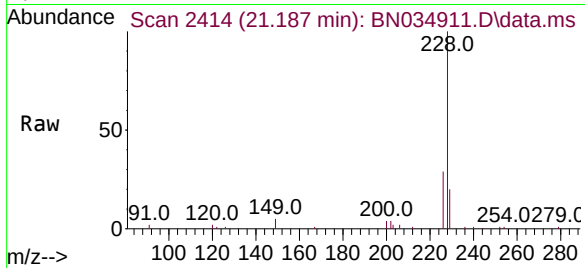




#33
Chrysene
Concen: 0.396 ng
RT: 21.187 min Scan# 2414
Delta R.T. 0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

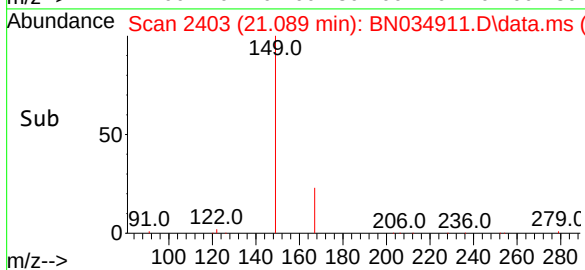
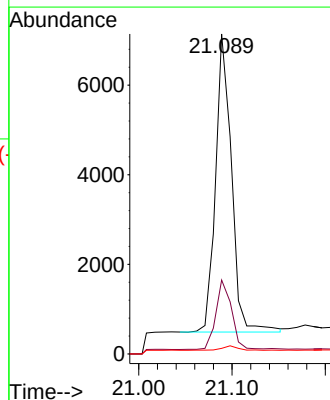
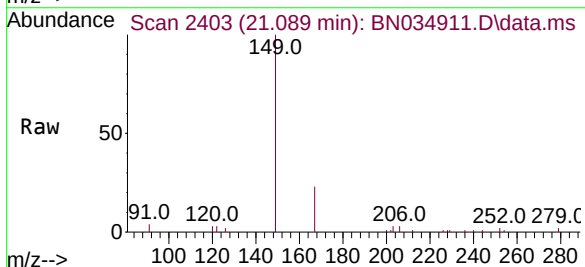
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

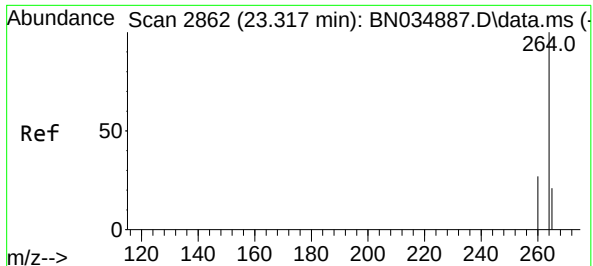
Tgt Ion:228 Resp: 17822
Ion Ratio Lower Upper
228 100
226 29.4 23.7 35.5
229 19.9 16.3 24.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.322 ng
RT: 21.089 min Scan# 2403
Delta R.T. -0.000 min
Lab File: BN034911.D
Acq: 08 Nov 2024 16:41

Tgt Ion:149 Resp: 7872
Ion Ratio Lower Upper
149 100
167 23.1 18.1 27.1
279 1.6 1.2 1.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.320 min Scan# 2863

Delta R.T. 0.003 min

Lab File: BN034911.D

Acq: 08 Nov 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

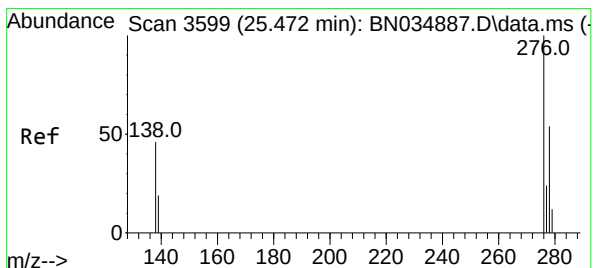
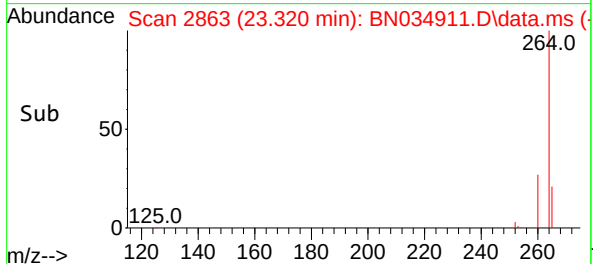
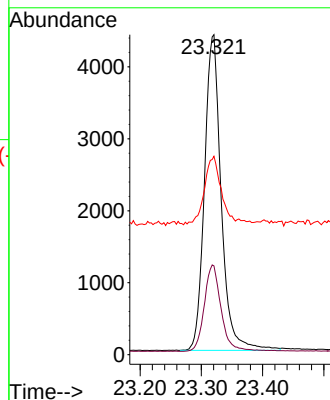
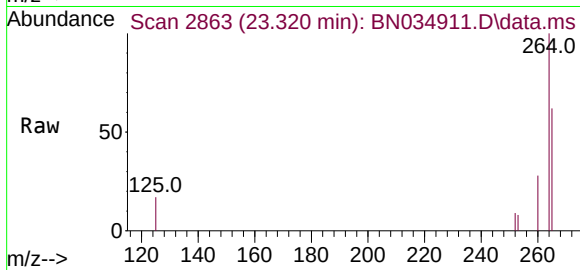
Tgt Ion:264 Resp: 8319

Ion Ratio Lower Upper

264 100

260 27.7 22.2 33.2

265 62.0 60.9 91.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.361 ng

RT: 25.472 min Scan# 3599

Delta R.T. 0.000 min

Lab File: BN034911.D

Acq: 08 Nov 2024 16:41

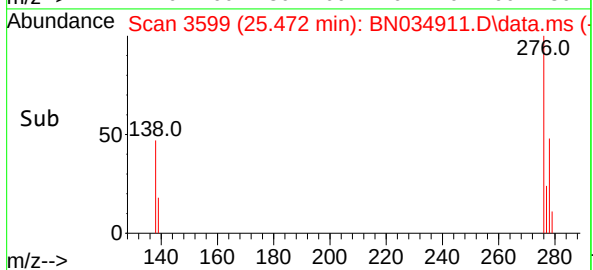
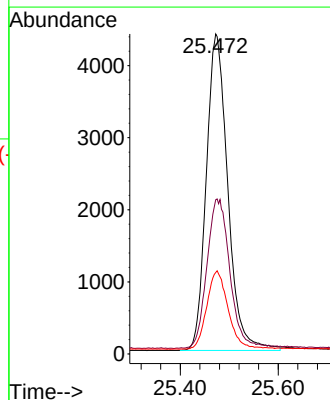
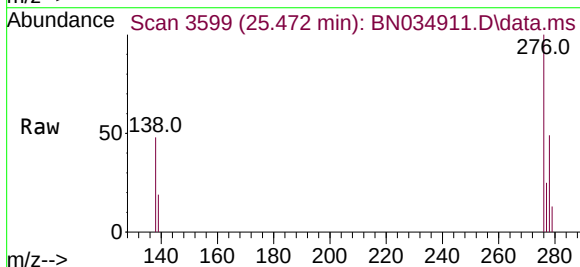
Tgt Ion:276 Resp: 13373

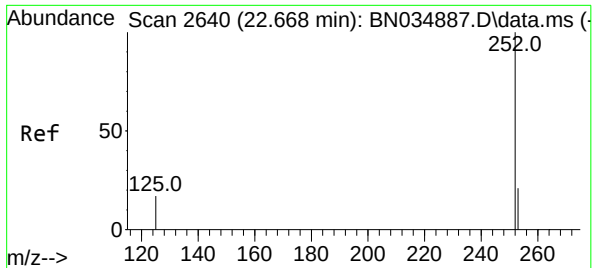
Ion Ratio Lower Upper

276 100

138 49.9 38.4 57.6

277 24.5 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.417 ng

RT: 22.671 min Scan# 2641

Delta R.T. 0.003 min

Lab File: BN034911.D

Acq: 08 Nov 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

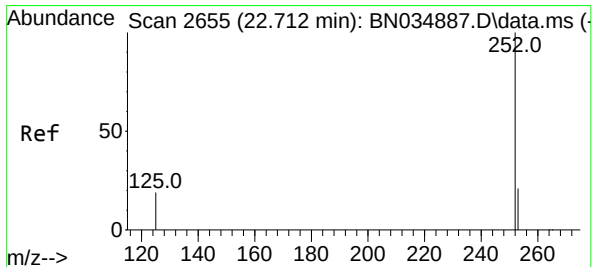
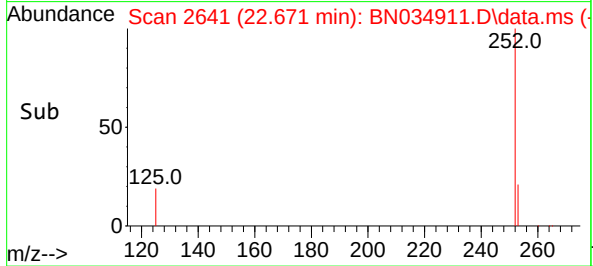
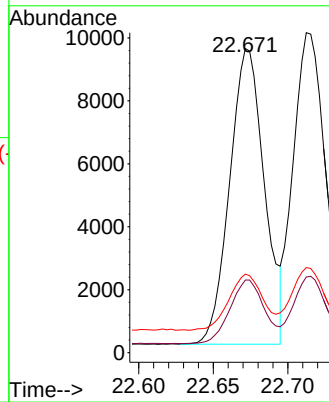
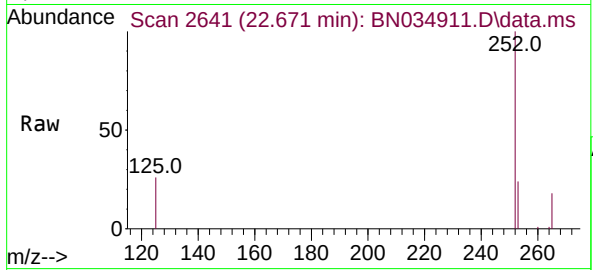
Tgt Ion:252 Resp: 15226

Ion Ratio Lower Upper

252 100

253 23.9 19.4 29.2

125 25.8 21.4 32.2



#38

Benzo(k)fluoranthene

Concen: 0.404 ng

RT: 22.712 min Scan# 2655

Delta R.T. 0.000 min

Lab File: BN034911.D

Acq: 08 Nov 2024 16:41

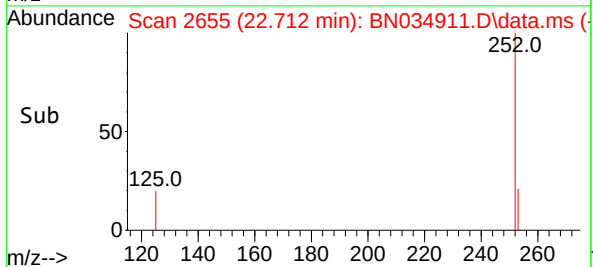
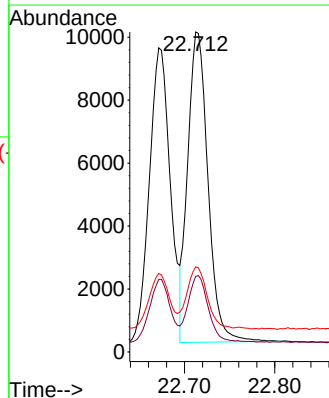
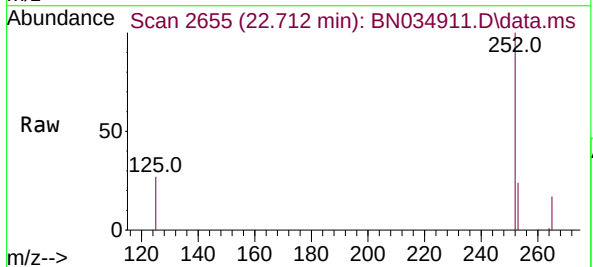
Tgt Ion:252 Resp: 15351

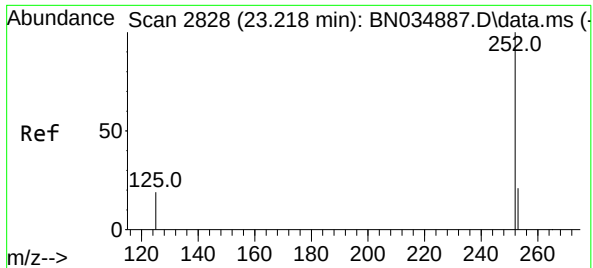
Ion Ratio Lower Upper

252 100

253 23.6 19.8 29.8

125 26.6 22.6 33.8





#39

Benzo(a)pyrene

Concen: 0.382 ng

RT: 23.224 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN034911.D

Acq: 08 Nov 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

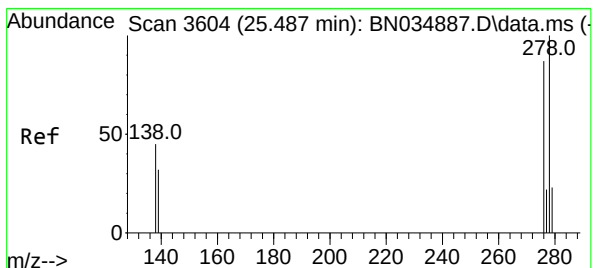
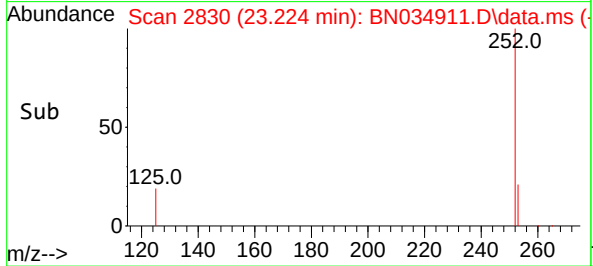
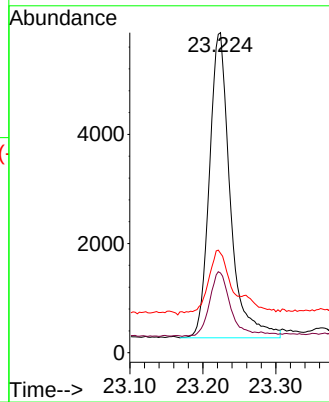
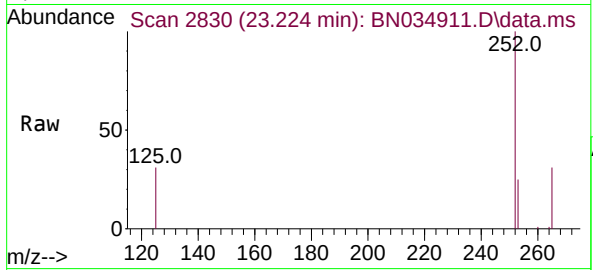
Tgt Ion:252 Resp: 11078

Ion Ratio Lower Upper

252 100

253 24.9 21.4 32.2

125 31.1 27.8 41.6



#40

Dibenzo(a,h)anthracene

Concen: 0.359 ng

RT: 25.490 min Scan# 3605

Delta R.T. 0.003 min

Lab File: BN034911.D

Acq: 08 Nov 2024 16:41

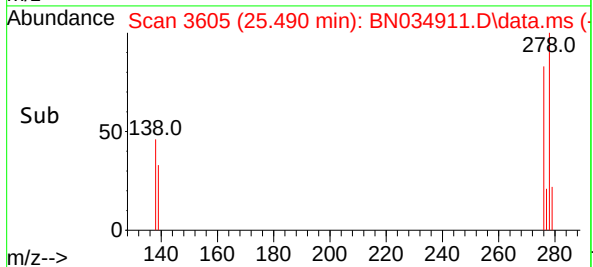
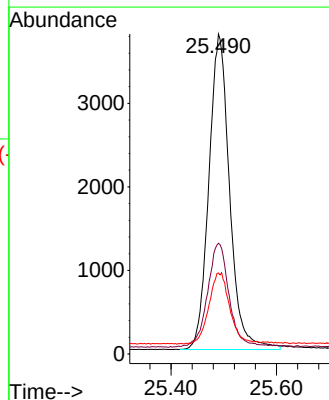
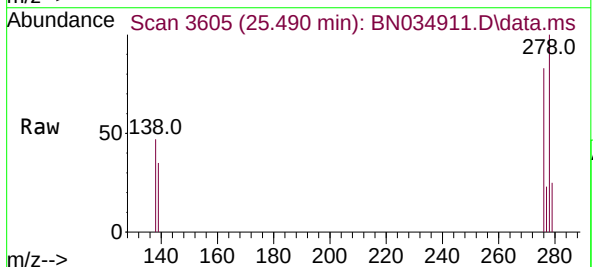
Tgt Ion:278 Resp: 10297

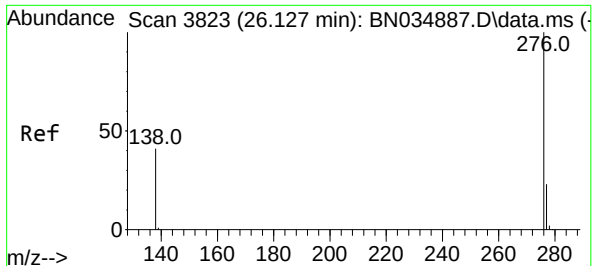
Ion Ratio Lower Upper

278 100

139 34.6 27.2 40.8

279 25.3 21.4 32.0





#41

Benzo(g,h,i)perylene

Concen: 0.371 ng

RT: 26.127 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN034911.D

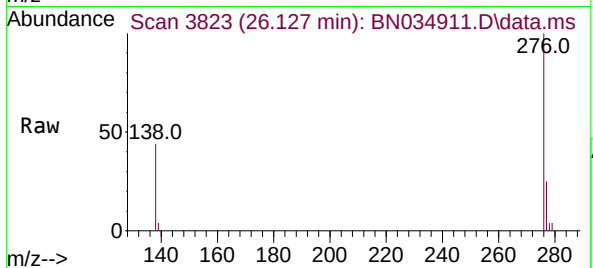
Acq: 08 Nov 2024 16:41

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



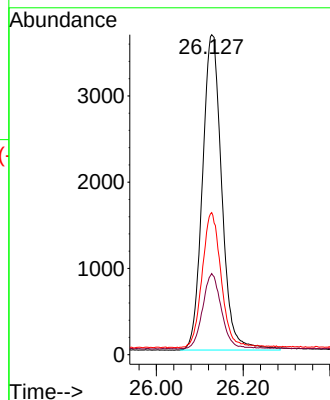
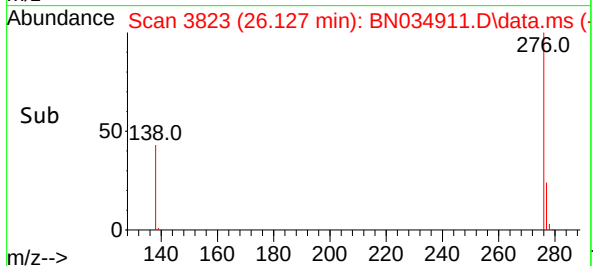
Tgt Ion:276 Resp: 11290

Ion Ratio Lower Upper

276 100

277 25.4 20.2 30.2

138 44.4 33.9 50.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
Data File : BN034911.D
Acq On : 08 Nov 2024 16:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 08 17:33:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 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	118	0.00
2	1,4-Dioxane	0.505	0.476	5.7	118	0.00
3	n-Nitrosodimethylamine	0.682	0.659	3.4	125	0.00
4 S	2-Fluorophenol	1.115	0.993	10.9	116	0.00
5 S	Phenol-d6	1.480	1.324	10.5	120	0.00
6	bis(2-Chloroethyl)ether	1.277	1.182	7.4	119	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	122	0.00
8 S	Nitrobenzene-d5	0.312	0.275	11.9	120	0.00
9	Naphthalene	1.110	1.033	6.9	123	0.00
10	Hexachlorobutadiene	0.177	0.165	6.8	120	0.00
11 SURR	2-Methylnaphthalene-d10	0.545	0.486	10.8	121	0.00
12	2-Methylnaphthalene	0.679	0.615	9.4	123	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	123	-0.01
14 S	2,4,6-Tribromophenol	0.118	0.094	20.3	133	0.00
15 S	2-Fluorobiphenyl	1.690	1.539	8.9	123	-0.01
16	Acenaphthylene	1.929	1.691	12.3	124	0.00
17	Acenaphthene	1.335	1.178	11.8	123	0.00
18	Fluorene	1.662	1.489	10.4	125	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	128	0.00
20	4,6-Dinitro-2-methylphenol	0.044	0.034	22.7	135	0.00
21	4-Bromophenyl-phenylether	0.213	0.192	9.9	122	-0.01
22	Hexachlorobenzene	0.257	0.248	3.5	126	0.00
23	Atrazine	0.154	0.133	13.6	128	0.00
24	Pentachlorophenol	0.077	0.060	22.1	139	0.00
25	Phenanthrene	1.227	1.183	3.6	131	0.00
26	Anthracene	1.058	0.969	8.4	129	0.00
27 SURR	Fluoranthene-d10	0.902	0.830	8.0	133	0.00
28	Fluoranthene	1.291	1.213	6.0	137	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	133	0.00
30	Pyrene	2.025	2.044	-0.9	136	0.00
31 S	Terphenyl-d14	0.749	0.739	1.3	132	0.00
32	Benzo(a)anthracene	1.559	1.473	5.5	137	0.00
33	Chrysene	1.650	1.633	1.0	137	0.00
34	Bis(2-ethylhexyl)phthalate	0.895	0.721	19.4	133	0.00
35 I	Perylene-d12	1.000	1.000	0.0	122	0.00
36	Indeno(1,2,3-cd)pyrene	1.782	1.608	9.8	116	0.00
37	Benzo(b)fluoranthene	1.757	1.830	-4.2	127	0.00
38	Benzo(k)fluoranthene	1.828	1.845	-0.9	130	0.00
39 C	Benzo(a)pyrene	1.396	1.332	4.6	121	0.00
40	Dibenzo(a,h)anthracene	1.379	1.238	10.2	115	0.00
41	Benzo(g,h,i)perylene	1.464	1.357	7.3	111	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
Data File : BN034911.D
Acq On : 08 Nov 2024 16:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 08 17:33:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 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	118	0.00
2	1,4-Dioxane	0.400	0.377	5.8	118	0.00
3	n-Nitrosodimethylamine	0.400	0.387	3.3	125	0.00
4 S	2-Fluorophenol	0.400	0.356	11.0	116	0.00
5 S	Phenol-d6	0.400	0.358	10.5	120	0.00
6	bis(2-Chloroethyl)ether	0.400	0.370	7.5	119	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	122	0.00
8 S	Nitrobenzene-d5	0.400	0.353	11.8	120	0.00
9	Naphthalene	0.400	0.372	7.0	123	0.00
10	Hexachlorobutadiene	0.400	0.373	6.8	120	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.357	10.8	121	0.00
12	2-Methylnaphthalene	0.400	0.362	9.5	123	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	123	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.359	10.3	133	0.00
15 S	2-Fluorobiphenyl	0.400	0.364	9.0	123	-0.01
16	Acenaphthylene	0.400	0.350	12.5	124	0.00
17	Acenaphthene	0.400	0.353	11.8	123	0.00
18	Fluorene	0.400	0.358	10.5	125	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	128	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.381	4.8	135	0.00
21	4-Bromophenyl-phenylether	0.400	0.361	9.8	122	-0.01
22	Hexachlorobenzene	0.400	0.386	3.5	126	0.00
23	Atrazine	0.400	0.344	14.0	128	0.00
24	Pentachlorophenol	0.400	0.383	4.3	139	0.00
25	Phenanthrene	0.400	0.386	3.5	131	0.00
26	Anthracene	0.400	0.366	8.5	129	0.00
27 SURR	Fluoranthene-d10	0.400	0.368	8.0	133	0.00
28	Fluoranthene	0.400	0.376	6.0	137	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	133	0.00
30	Pyrene	0.400	0.404	-1.0	136	0.00
31 S	Terphenyl-d14	0.400	0.394	1.5	132	0.00
32	Benzo(a)anthracene	0.400	0.378	5.5	137	0.00
33	Chrysene	0.400	0.396	1.0	137	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.322	19.5	133	0.00
35 I	Perylene-d12	0.400	0.400	0.0	122	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.361	9.8	116	0.00
37	Benzo(b)fluoranthene	0.400	0.417	-4.2	127	0.00
38	Benzo(k)fluoranthene	0.400	0.404	-1.0	130	0.00
39 C	Benzo(a)pyrene	0.400	0.382	4.5	121	0.00
40	Dibenzo(a,h)anthracene	0.400	0.359	10.3	115	0.00
41	Benzo(g,h,i)perylene	0.400	0.371	7.3	111	0.00

(#) = Out of Range

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



QC SAMPLE DATA

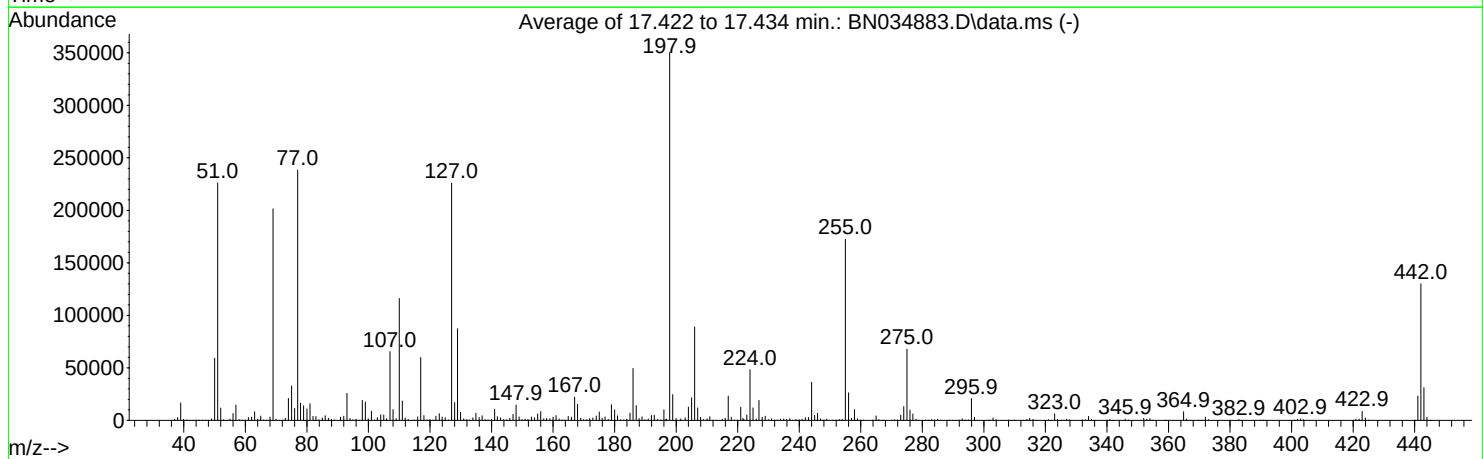
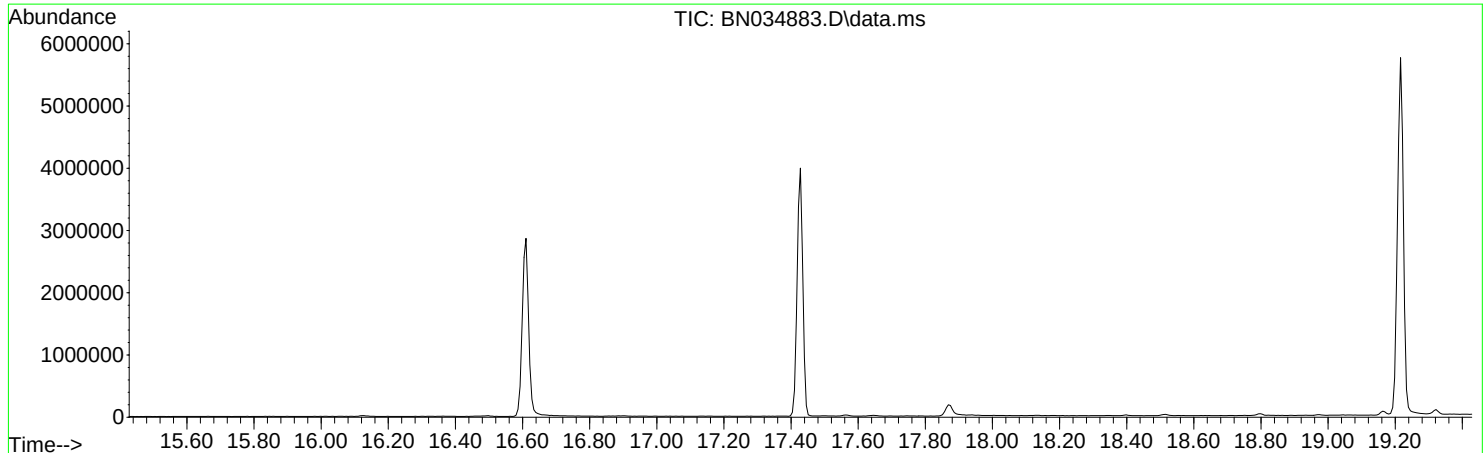
- 1
- 2
- 3
- 4
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- 7
- 8
- 9
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- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
Data File : BN034883.D
Acq On : 07 Nov 2024 08:39
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-BN110724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 07 15:02:36 2024



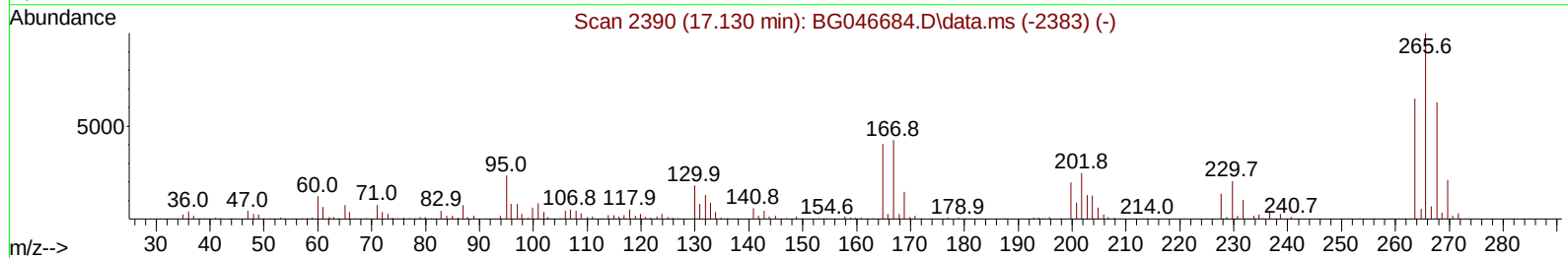
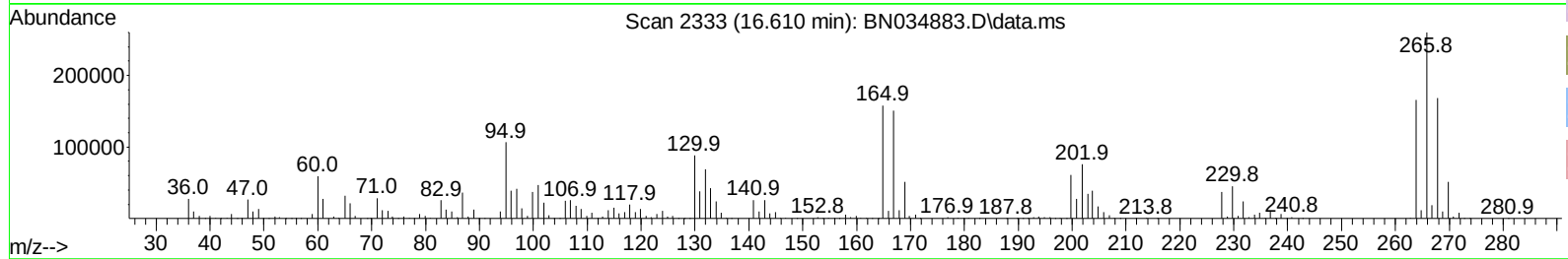
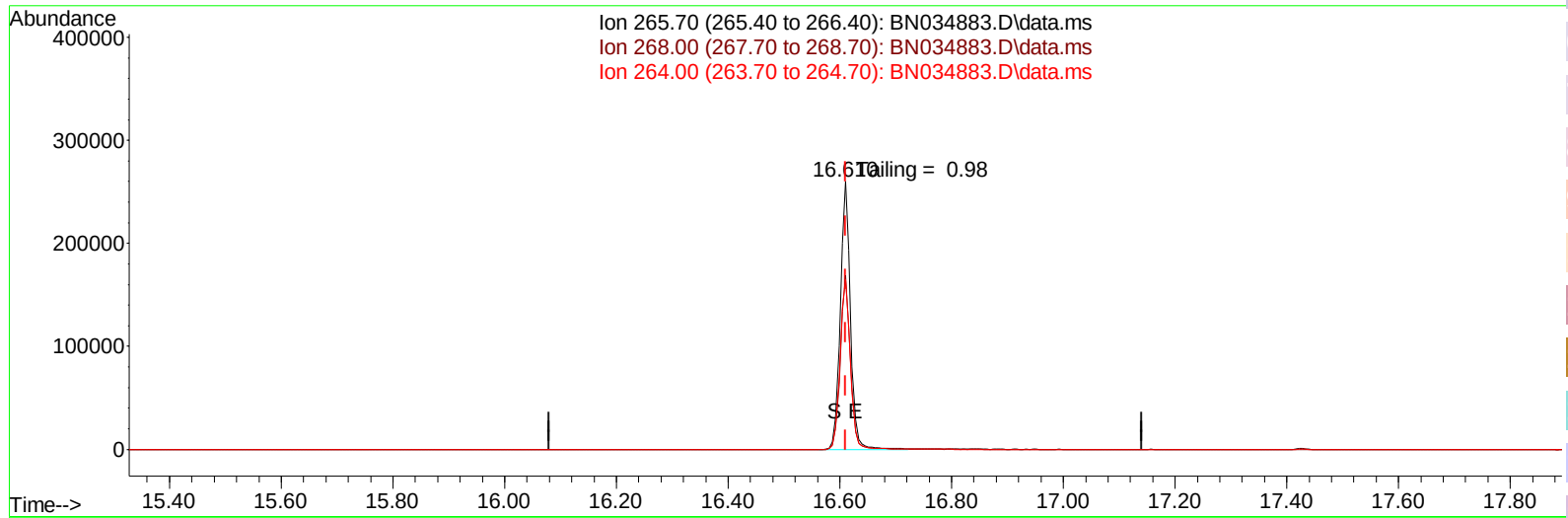
AutoFind: Scans 2471, 2472, 2473; Background Corrected with Scan 2464

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	64.6	226187	PASS
68	69	0.00	2	1.6	3175	PASS
69	198	0.00	100	57.5	201387	PASS
70	69	0.00	2	0.6	1113	PASS
127	198	10	80	64.5	225920	PASS
197	198	0.00	2	0.3	1194	PASS
198	198	100	100	100.0	350336	PASS
199	198	5	9	7.0	24557	PASS
275	198	10	60	19.4	67965	PASS
365	198	1	100	2.3	8198	PASS
441	198	0.01	100	6.6	23149	PASS
442	442	50	100	100.0	130005	PASS
443	442	15	24	24.0	31165	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
Data File : BN034883.D
Acq On : 07 Nov 2024 08:39
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 08 05:30:38 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 08 05:30:33 2024
Response via : Initial Calibration



TIC: BN034883.D\data.ms

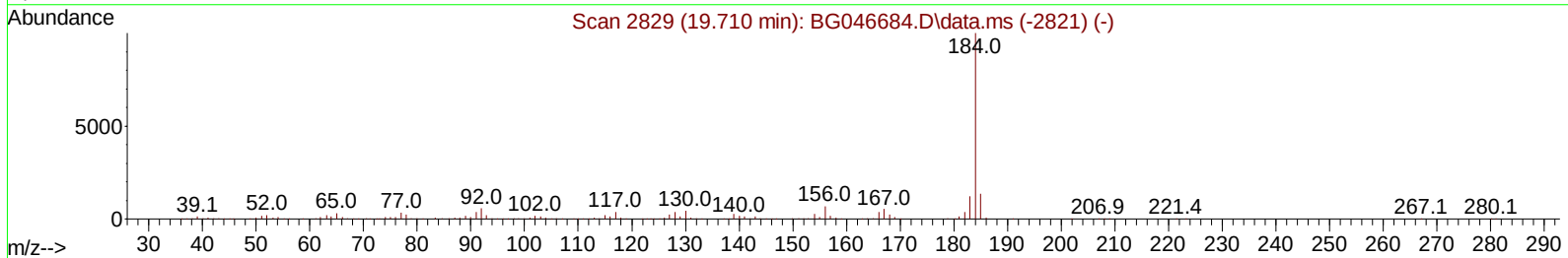
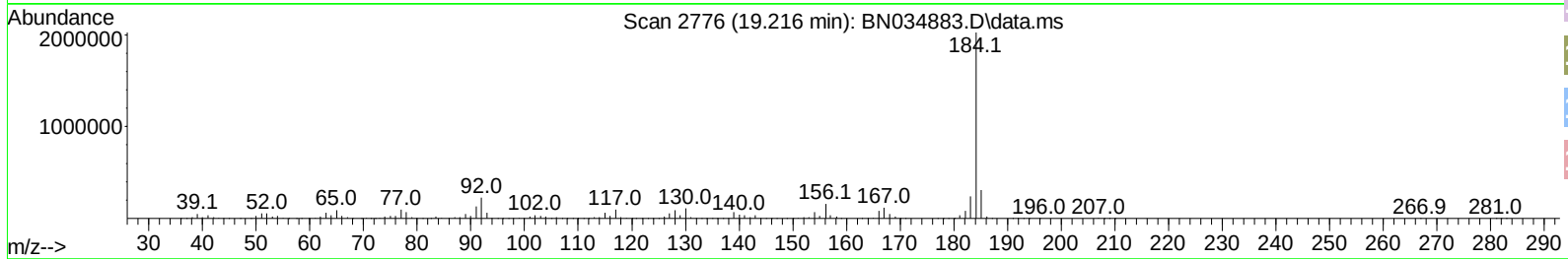
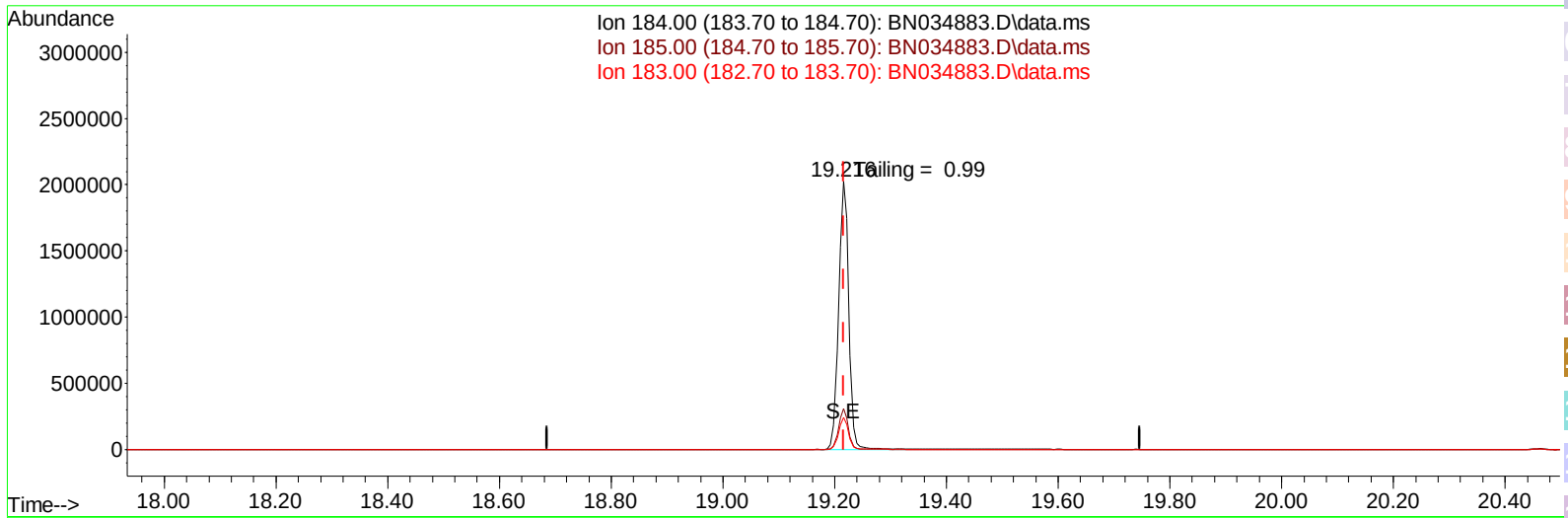
(70) Pentachlorophenol (C)**16.610min (0.000) 18769.66 ng****response 330393**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.93
264.00	61.60	63.65
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
Data File : BN034883.D
Acq On : 07 Nov 2024 08:39
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 08 05:30:38 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 08 05:30:33 2024
Response via : Initial Calibration



TIC: BN034883.D\data.ms

(77) Benzidine

19.216min (0.000) 0.00 ng

response 2581167

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	15.29
183.00	13.20	12.03
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

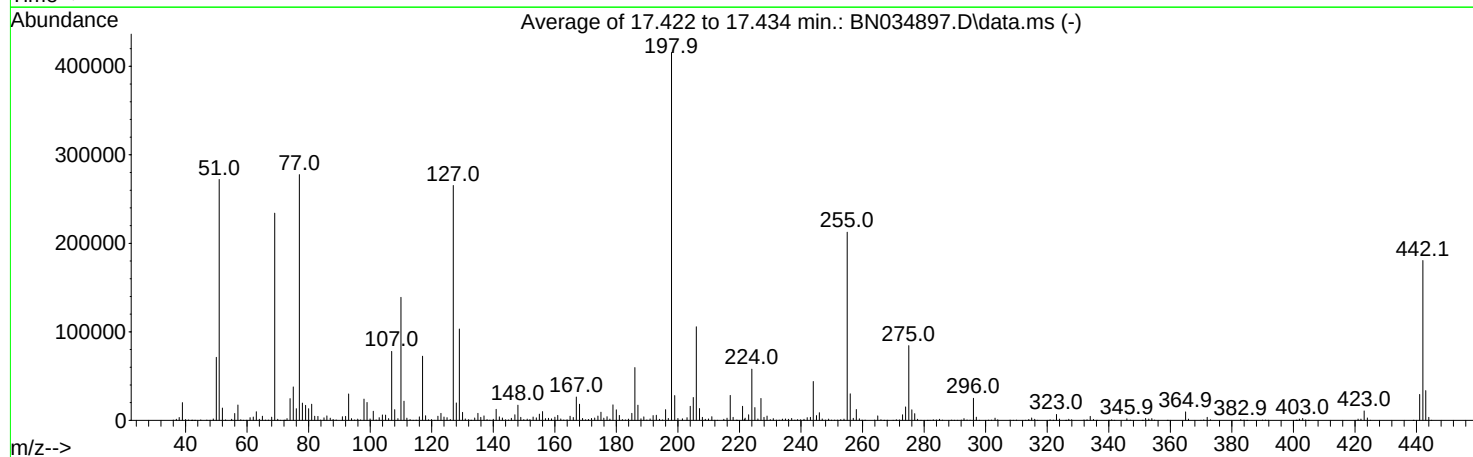
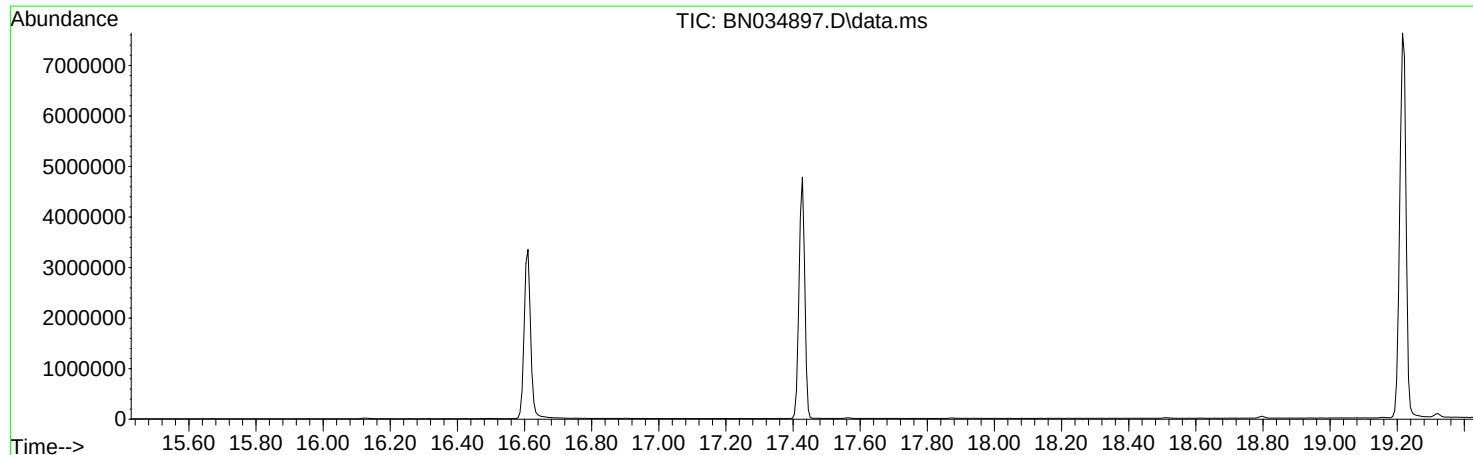
Date	Instrument Name	DFTPP Data File
11/7/2024	BNA_N	<u>BN034883.D</u>
Compound Name	Response	Retention Time
DDT	1134074	20.463
DDD	9937	20.069
DDE	132	19.504
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
10069	1144143	0.88

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
Data File : BN034897.D
Acq On : 08 Nov 2024 07:50
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-BN110724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 07 15:02:36 2024



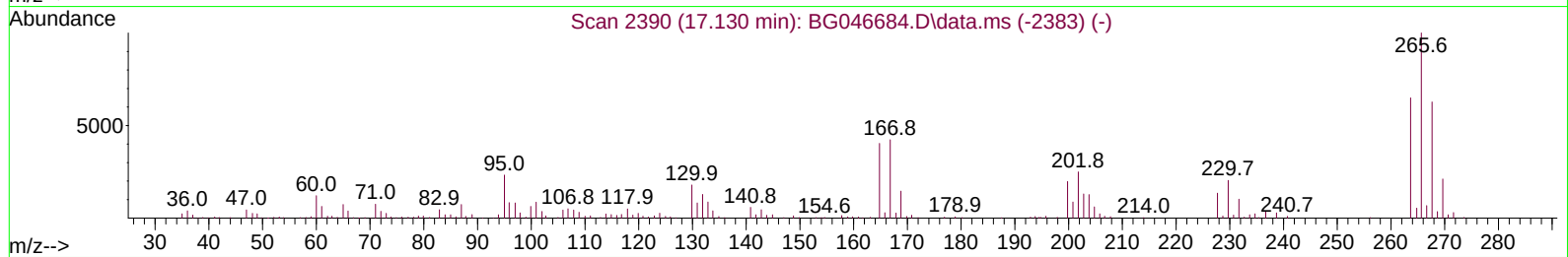
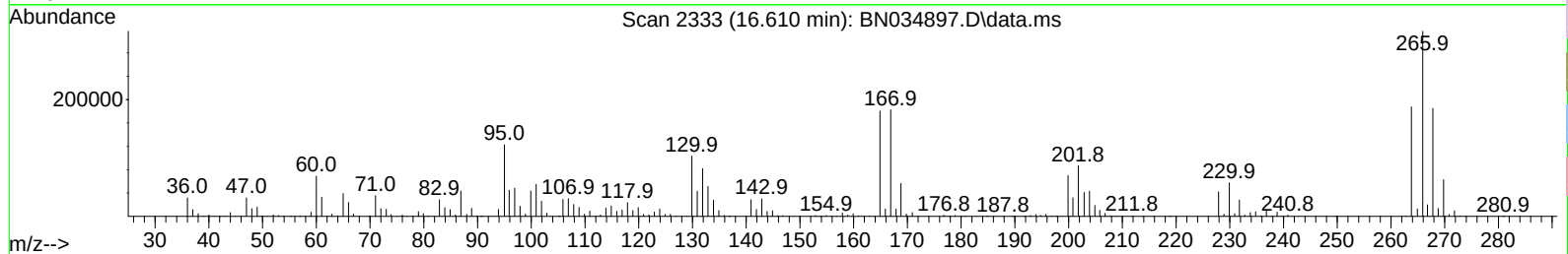
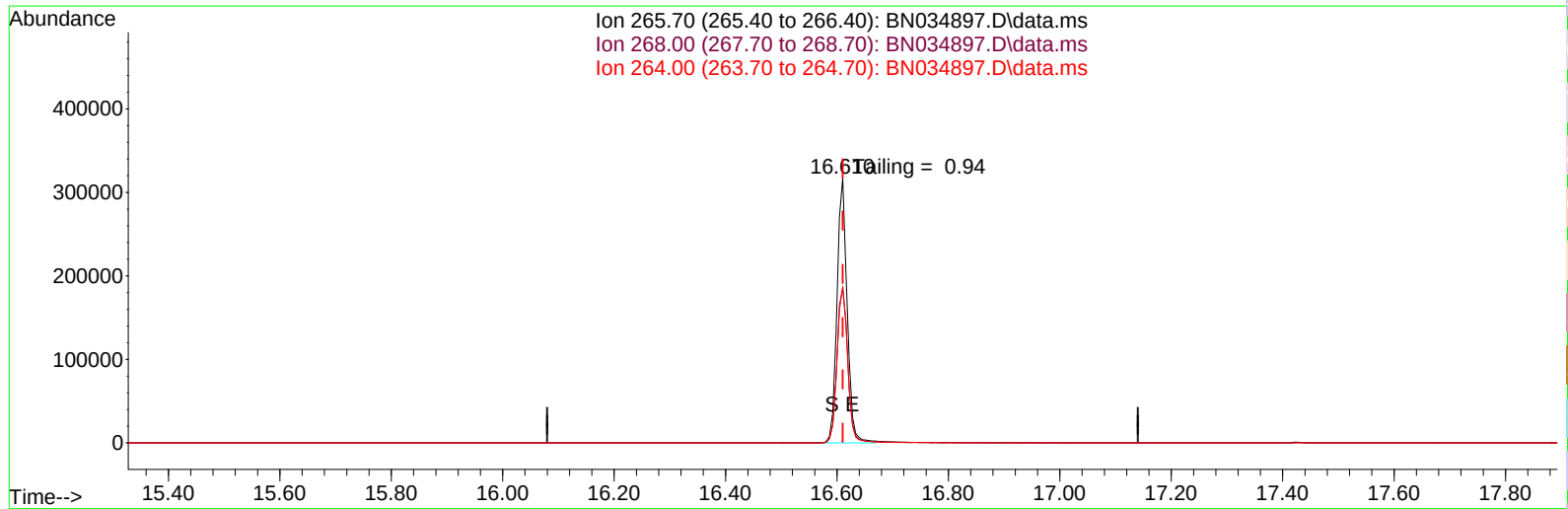
AutoFind: Scans 2471, 2472, 2473; Background Corrected with Scan 2464

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	65.5	272195	PASS
68	69	0.00	2	1.6	3690	PASS
69	198	0.00	100	56.3	234112	PASS
70	69	0.00	2	0.5	1192	PASS
127	198	10	80	63.8	265344	PASS
197	198	0.00	2	0.5	2163	PASS
198	198	100	100	100.0	415616	PASS
199	198	5	9	6.7	28043	PASS
275	198	10	60	20.3	84464	PASS
365	198	1	100	2.3	9568	PASS
441	198	0.01	100	7.0	29224	PASS
442	442	50	100	100.0	180587	PASS
443	442	15	24	18.6	33651	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
Data File : BN034897.D
Acq On : 08 Nov 2024 07:50
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 09 04:05:38 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: BN034897.D\data.ms

(70) Pentachlorophenol (C)

16.610min (0.000) 20617.49 ng

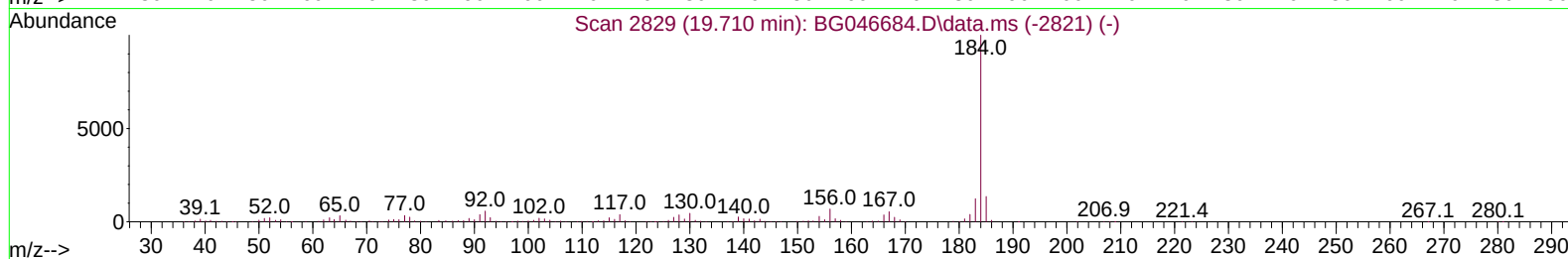
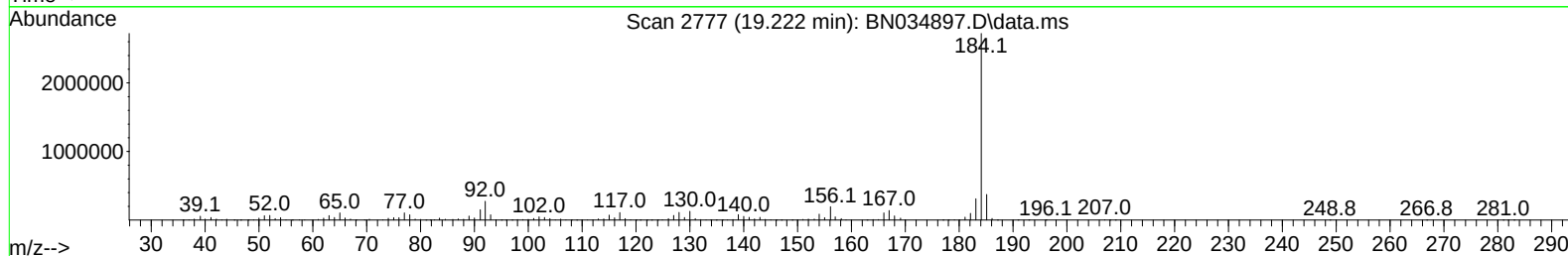
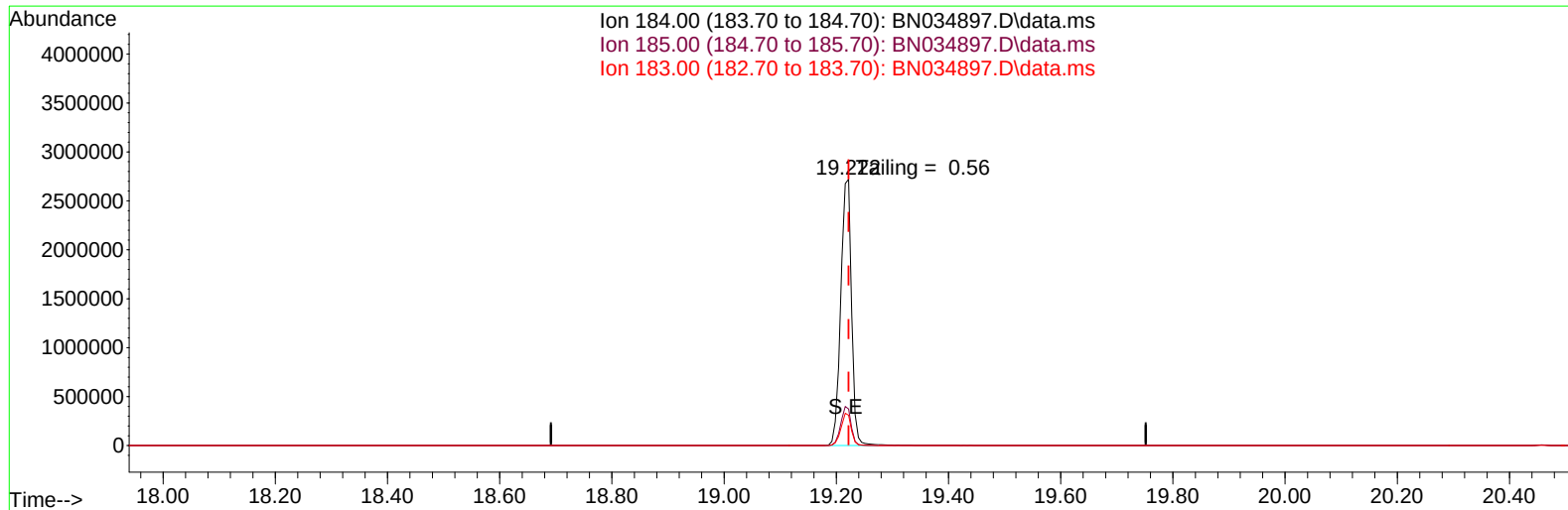
response 407091

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	58.38
264.00	61.60	59.14
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
Data File : BN034897.D
Acq On : 08 Nov 2024 07:50
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 09 04:05:38 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: BN034897.D\data.ms

(77) Benzidine

19.222min (0.000) 0.00 ng

response 3642384

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.73
183.00	13.20	11.43
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/8/2024	BNA_N	<u>BN034897.D</u>
Compound Name	Response	Retention Time
DDT	1384783	20.457
DDD	13389	20.069
DDE	195	19.51
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
13584	1398367	0.97

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	PB164705BL		SDG No.:	P4710
Lab Sample ID:	PB164705BL		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
BN034910.D	1	11/06/24 08:45	11/08/24 16:05	PB164705

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	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		117%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6270	7.575				
1146-65-2	Naphthalene-d8	17600	10.34				
15067-26-2	Acenaphthene-d10	7420	14.201				
1517-22-2	Phenanthrene-d10	15300	16.957				
1719-03-5	Chrysene-d12	8050	21.151				
1520-96-3	Perylene-d12	6370	23.317				

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\BN110824\
Data File : BN034910.D
Acq On : 08 Nov 2024 16:05
Operator : RC/JU
Sample : PB164705BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164705BL

Quant Time: Nov 08 16:32:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	6271	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	17552	0.400	ng	0.00
13) Acenaphthene-d10	14.201	164	7420	0.400	ng	-0.01
19) Phenanthrene-d10	16.957	188	15255	0.400	ng	0.00
29) Chrysene-d12	21.151	240	8049	0.400	ng	0.00
35) Perylene-d12	23.317	264	6373	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.199	112	5784	0.331	ng	0.00
5) Phenol-d6	6.751	99	7662	0.330	ng	0.00
8) Nitrobenzene-d5	8.707	82	4819	0.352	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	8067	0.337	ng	0.00
14) 2,4,6-Tribromophenol	15.704	330	363	0.202	ng	0.00
15) 2-Fluorobiphenyl	12.822	172	11928	0.381	ng	-0.01
27) Fluoranthene-d10	18.987	212	12346	0.359	ng	0.00
31) Terphenyl-d14	19.600	244	7087	0.470	ng	0.00

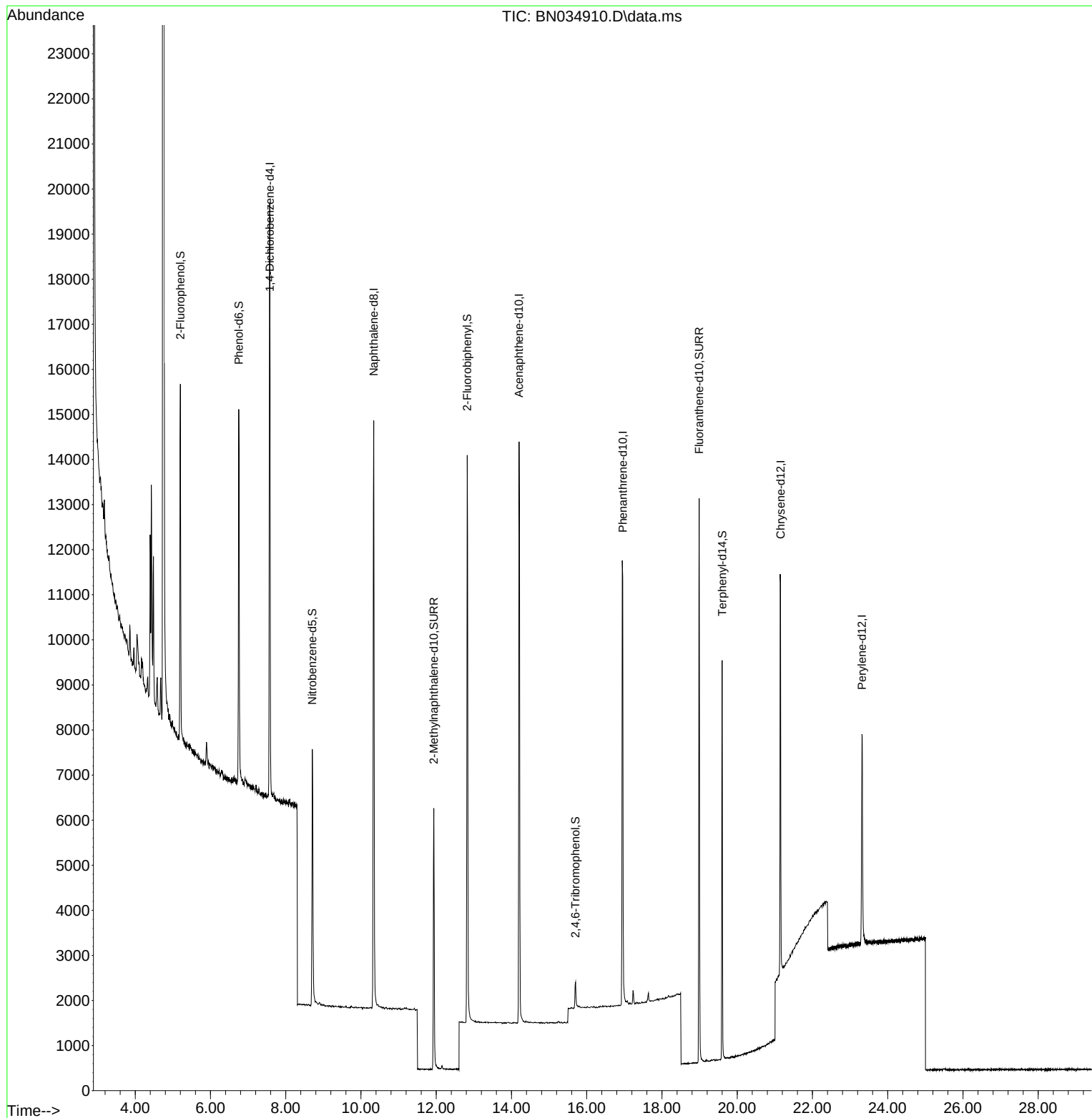
Target Compounds	Qvalue

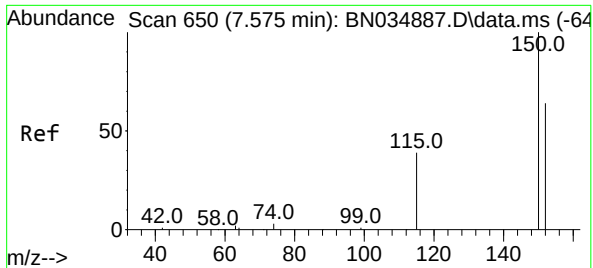
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
Data File : BN034910.D
Acq On : 08 Nov 2024 16:05
Operator : RC/JU
Sample : PB164705BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164705BL

Quant Time: Nov 08 16:32:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 2024
Response via : Initial Calibration

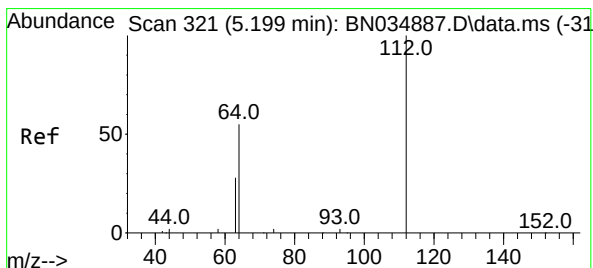
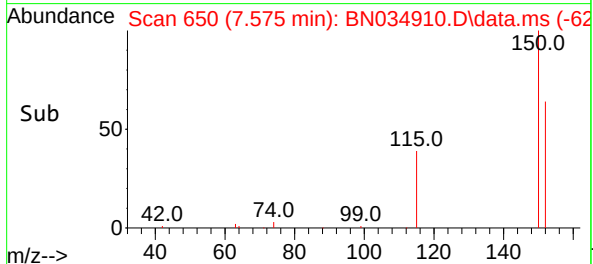
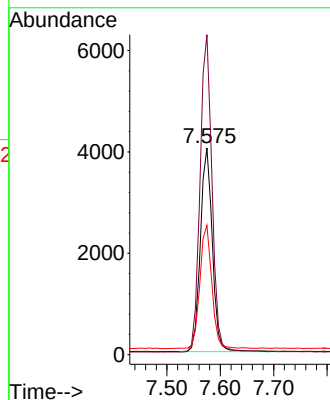
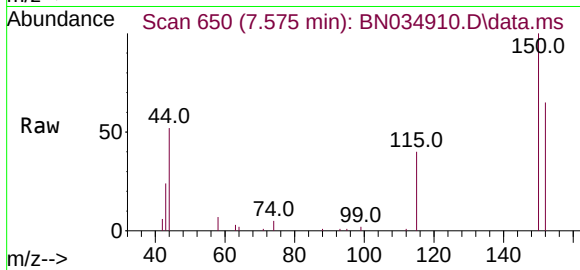




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034910.D
Acq: 08 Nov 2024 16:05

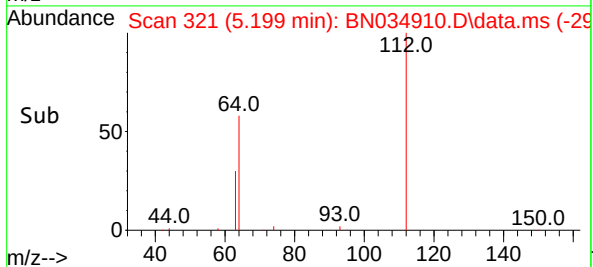
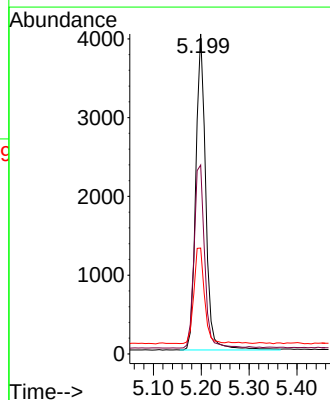
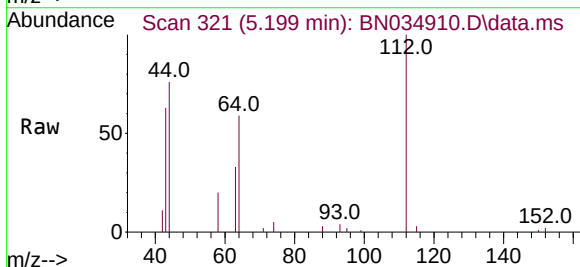
Instrument :
BNA_N
ClientSampleId :
PB164705BL

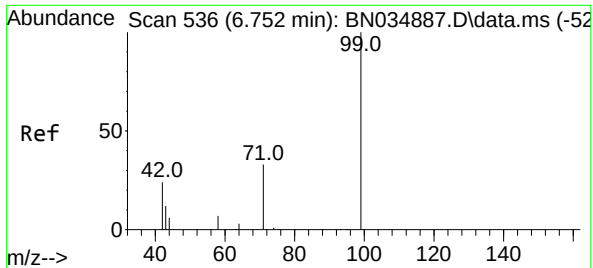
Tgt Ion:152 Resp: 6271
Ion Ratio Lower Upper
152 100
150 154.8 124.4 186.6
115 62.6 50.5 75.7



#4
2-Fluorophenol
Concen: 0.331 ng
RT: 5.199 min Scan# 321
Delta R.T. -0.000 min
Lab File: BN034910.D
Acq: 08 Nov 2024 16:05

Tgt Ion:112 Resp: 5784
Ion Ratio Lower Upper
112 100
64 61.5 49.6 74.4
63 32.0 26.3 39.5

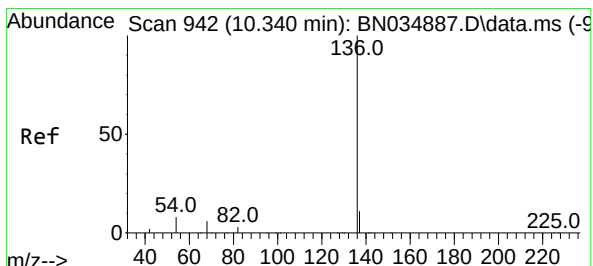
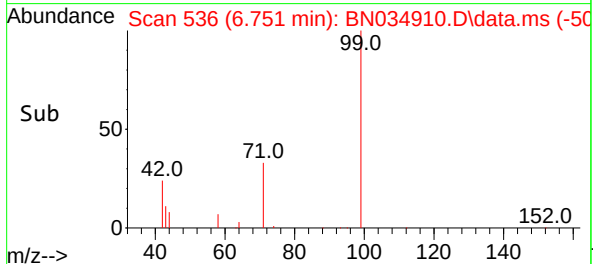
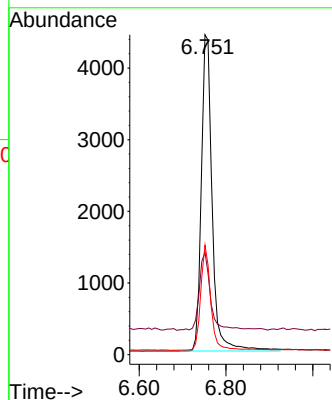
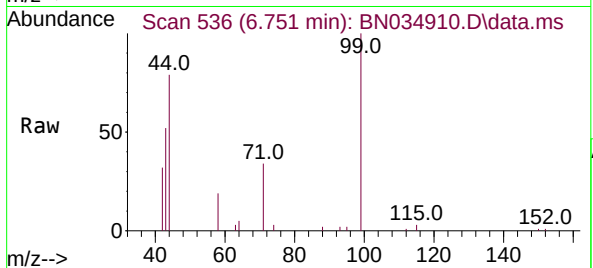




#5
Phenol-d6
Concen: 0.330 ng
RT: 6.751 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN034910.D
Acq: 08 Nov 2024 16:05

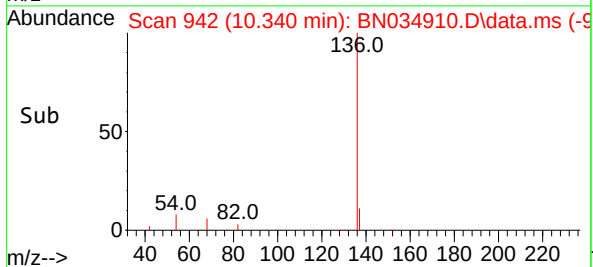
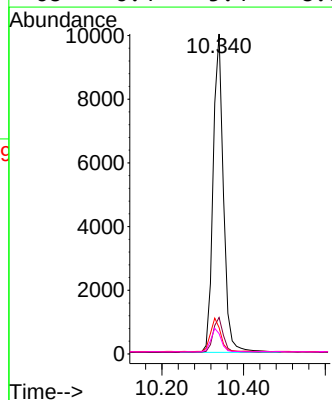
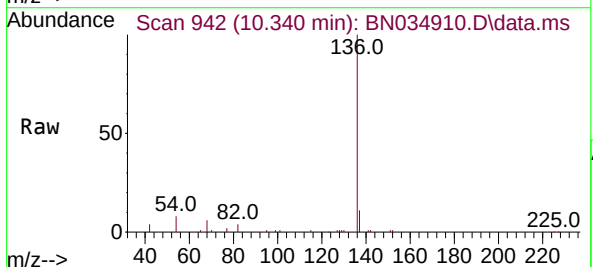
Instrument :
BNA_N
ClientSampleId :
PB164705BL

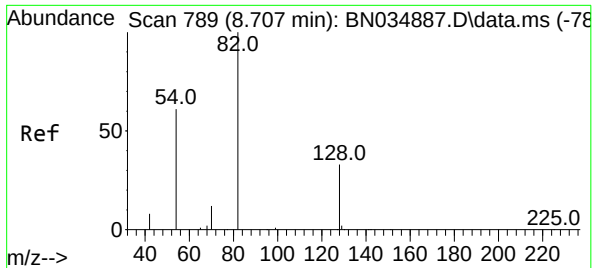
Tgt Ion:	99	Resp:	7662
Ion	Ratio	Lower	Upper
99	100		
42	24.2	20.2	30.2
71	31.0	25.4	38.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034910.D
Acq: 08 Nov 2024 16:05

Tgt Ion:	136	Resp:	17552
Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.9	13.3
54	8.3	6.9	10.3
68	6.4	5.4	8.0

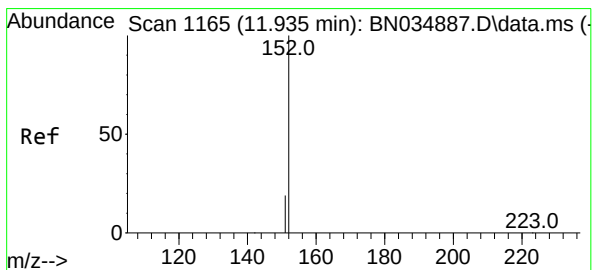
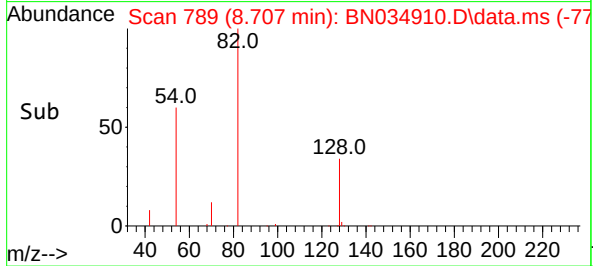
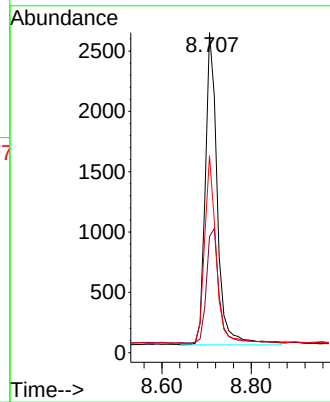
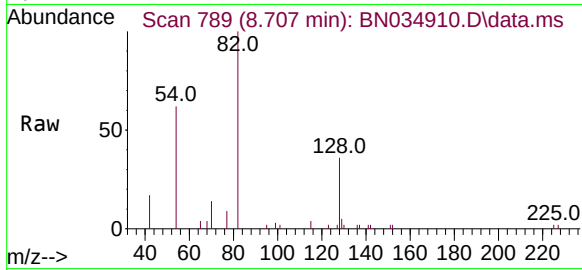




#8
Nitrobenzene-d5
Concen: 0.352 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034910.D
Acq: 08 Nov 2024 16:05

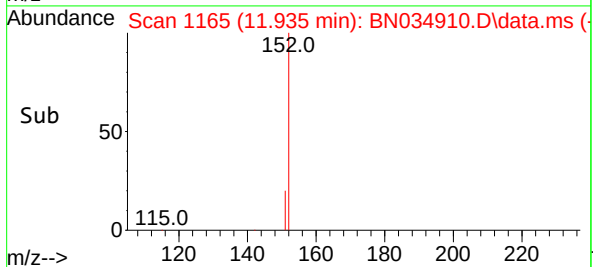
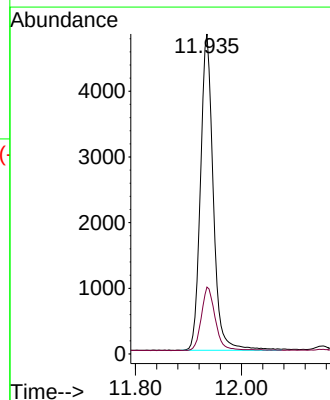
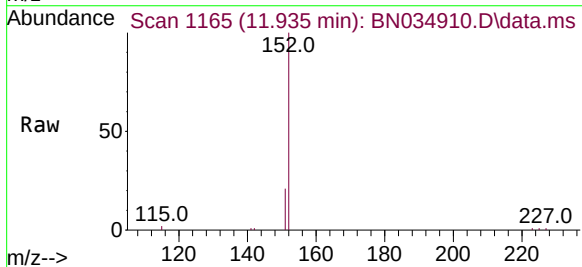
Instrument :
BNA_N
ClientSampleId :
PB164705BL

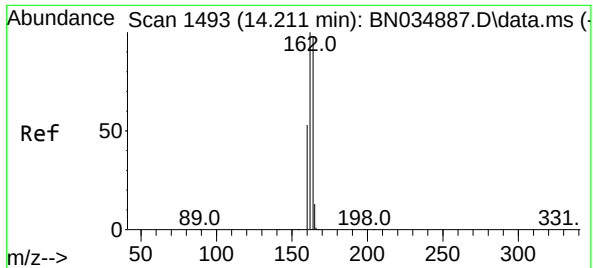
Tgt Ion:	82	Resp:	4819
Ion	Ratio	Lower	Upper
82	100		
128	36.3	28.1	42.1
54	61.5	49.8	74.6



#11
2-Methylnaphthalene-d10
Concen: 0.337 ng
RT: 11.935 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN034910.D
Acq: 08 Nov 2024 16:05

Tgt Ion:	152	Resp:	8067
Ion	Ratio	Lower	Upper
152	100		
151	22.0	17.1	25.7

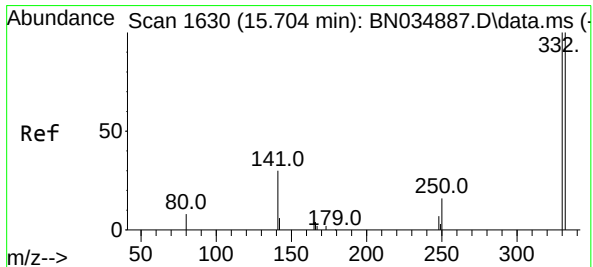
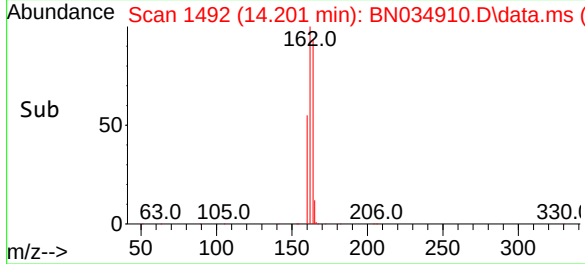
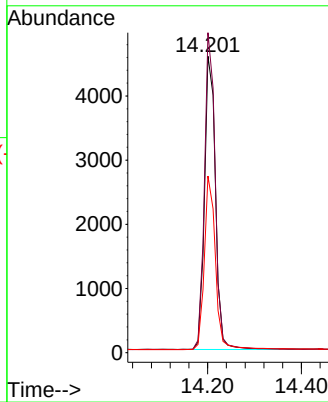
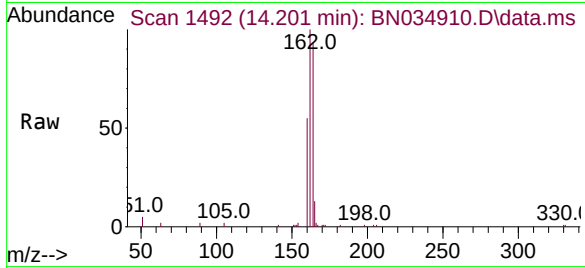




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.201 min Scan# 1493
Delta R.T. -0.010 min
Lab File: BN034910.D
Acq: 08 Nov 2024 16:05

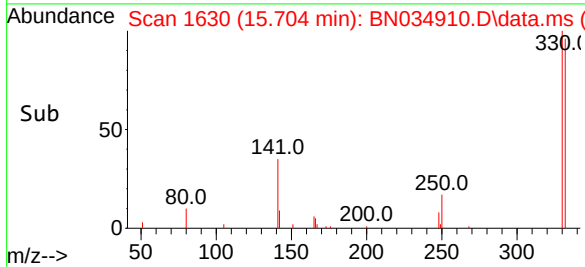
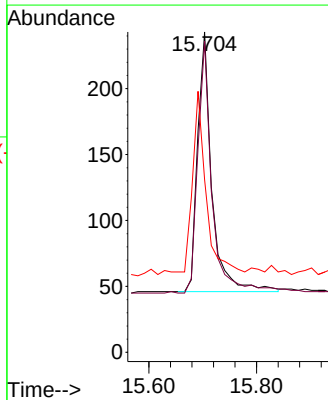
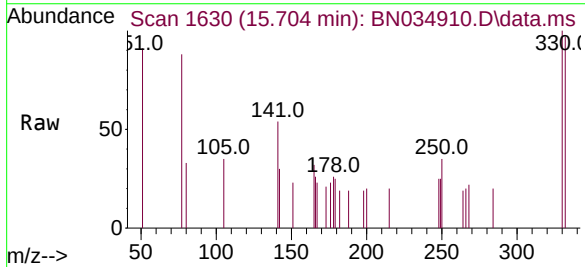
Instrument :
BNA_N
ClientSampleId :
PB164705BL

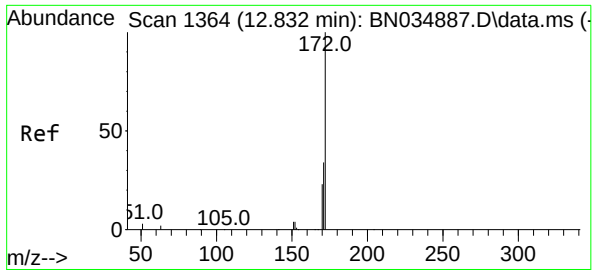
Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.9	81.9	122.9
160	59.6	43.5	65.3



#14
2,4,6-Tribromophenol
Concen: 0.202 ng
RT: 15.704 min Scan# 1630
Delta R.T. -0.000 min
Lab File: BN034910.D
Acq: 08 Nov 2024 16:05

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.1	115.7
141	65.3	54.1	81.1

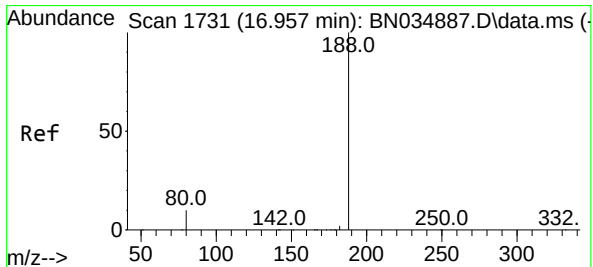
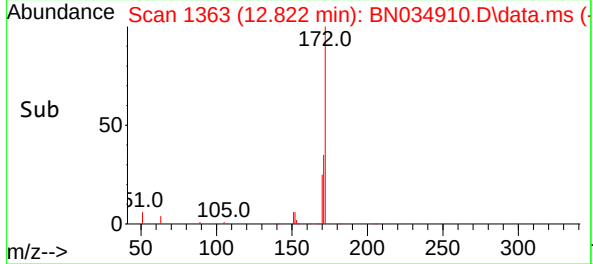
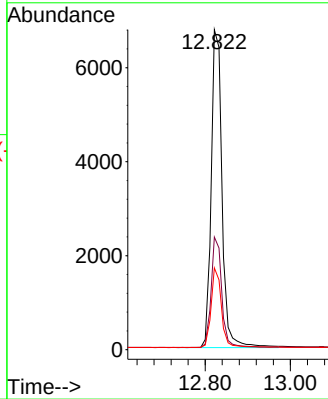
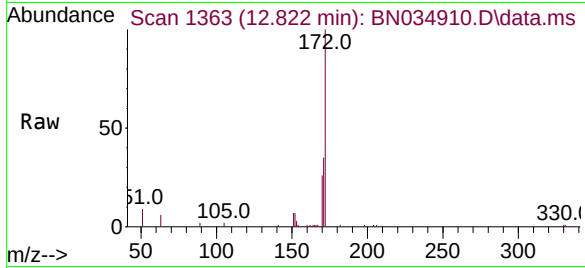




#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 12.822 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN034910.D
Acq: 08 Nov 2024 16:05

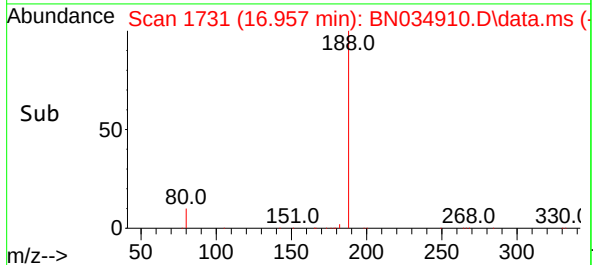
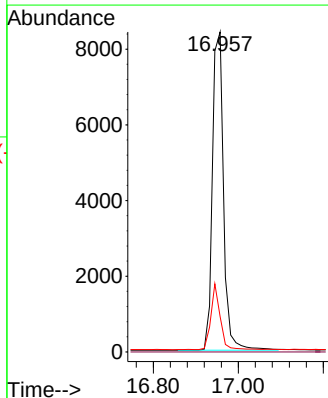
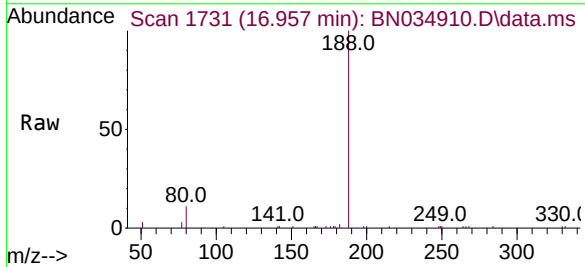
Instrument :
BNA_N
ClientSampleId :
PB164705BL

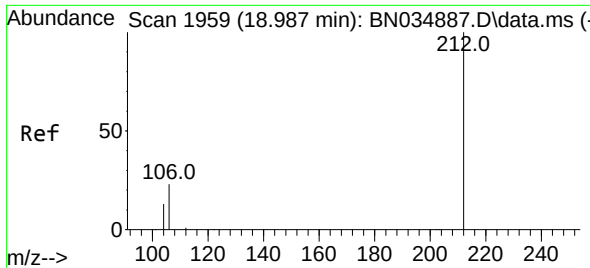
Tgt Ion:	172	Resp:	11928
Ion Ratio	Lower	Upper	
172	100		
171	35.2	27.9	41.9
170	25.5	19.0	28.4



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.957 min Scan# 1731
Delta R.T. -0.000 min
Lab File: BN034910.D
Acq: 08 Nov 2024 16:05

Tgt Ion:	188	Resp:	15255
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.0	8.6	12.8

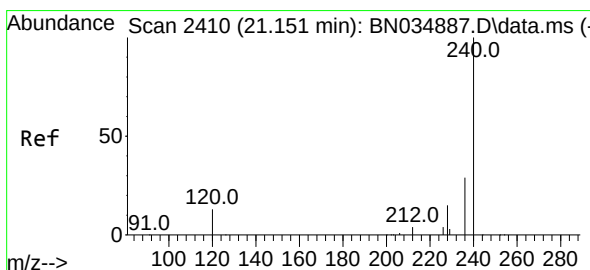
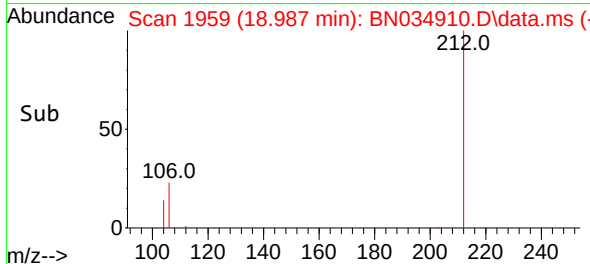
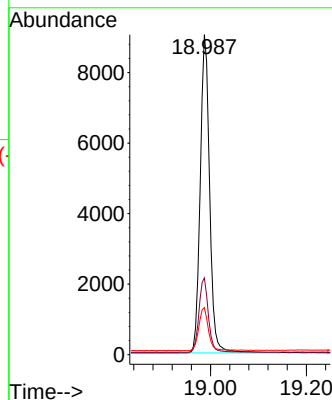
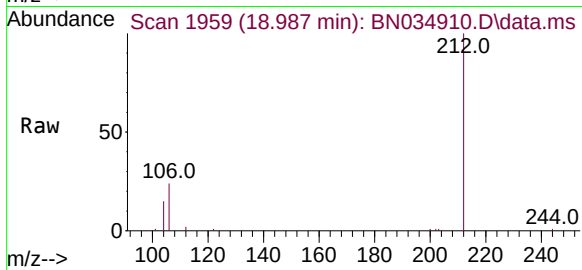




#27
Fluoranthene-d10
Concen: 0.359 ng
RT: 18.987 min Scan# 1959
Delta R.T. -0.000 min
Lab File: BN034910.D
Acq: 08 Nov 2024 16:05

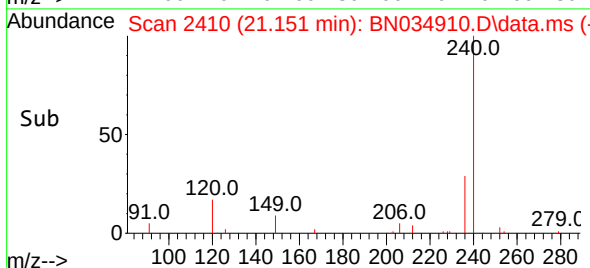
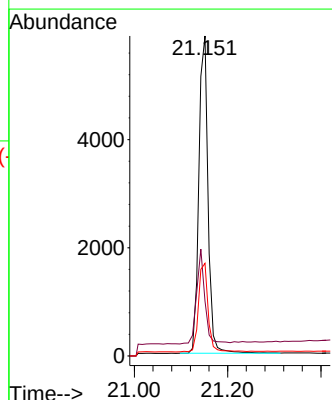
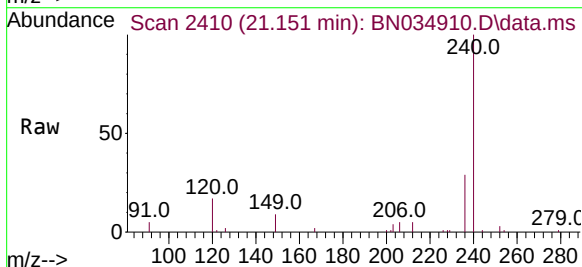
Instrument :
BNA_N
ClientSampleId :
PB164705BL

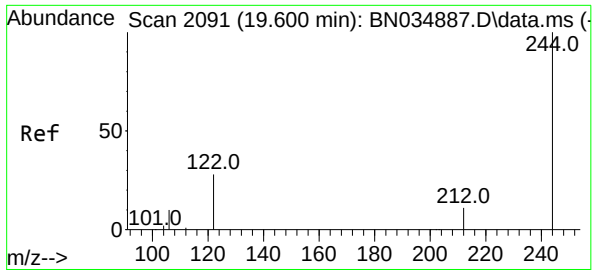
Tgt Ion	Ratio	Lower	Upper
212	100		
106	23.4	18.2	27.4
104	13.8	10.6	15.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.151 min Scan# 2410
Delta R.T. 0.000 min
Lab File: BN034910.D
Acq: 08 Nov 2024 16:05

Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.1	13.8	20.8
236	29.0	23.8	35.6

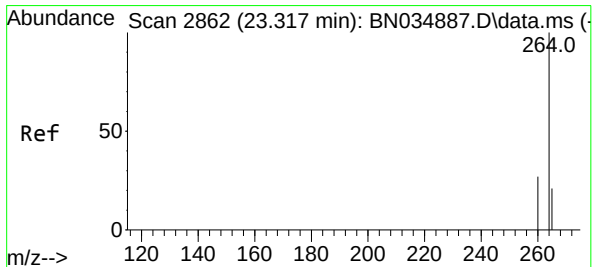
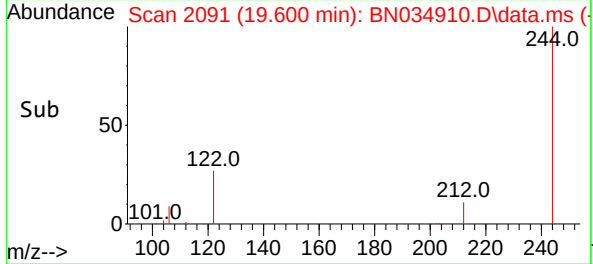
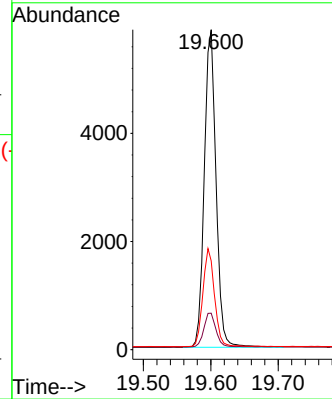
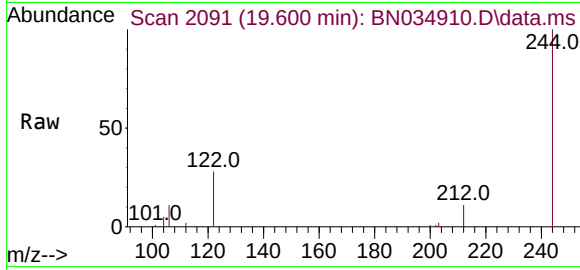




#31
Terphenyl-d14
Concen: 0.470 ng
RT: 19.600 min Scan# 2091
Delta R.T. 0.000 min
Lab File: BN034910.D
Acq: 08 Nov 2024 16:05

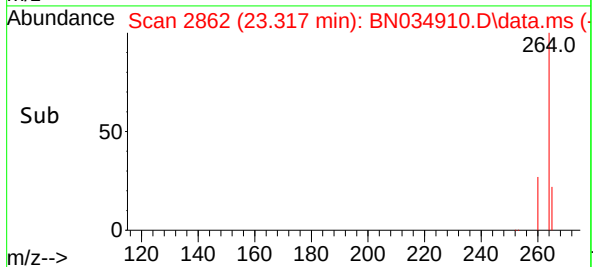
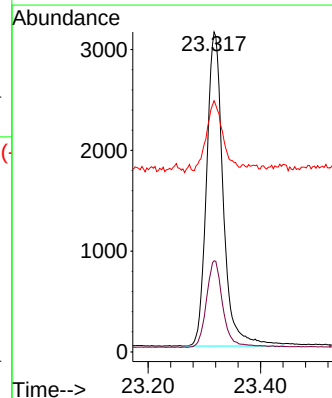
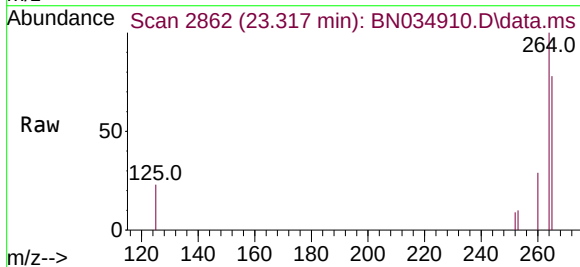
Instrument :
BNA_N
ClientSampleId :
PB164705BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.4	9.4	14.0
122	27.8	23.0	34.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.317 min Scan# 2862
Delta R.T. -0.000 min
Lab File: BN034910.D
Acq: 08 Nov 2024 16:05

Tgt Ion	Ratio	Lower	Upper
264	100		
260	28.5	22.2	33.2
265	78.5	60.9	91.3



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	PB164705BS		SDG No.:	P4710
Lab Sample ID:	PB164705BS		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
BN034908.D	1	11/06/24 08:45	11/08/24 14:53	PB164705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.29		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		100%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		95%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6390	7.575				
1146-65-2	Naphthalene-d8	18300	10.34				
15067-26-2	Acenaphthene-d10	8110	14.208				
1517-22-2	Phenanthrene-d10	16400	16.952				
1719-03-5	Chrysene-d12	9190	21.149				
1520-96-3	Perylene-d12	6980	23.318				

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\BN110824\
 Data File : BN034908.D
 Acq On : 08 Nov 2024 14:53
 Operator : RC/JU
 Sample : PB164705BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164705BS

Quant Time: Nov 08 15:44:12 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 07 15:02:36 2024
 Response via : Initial Calibration

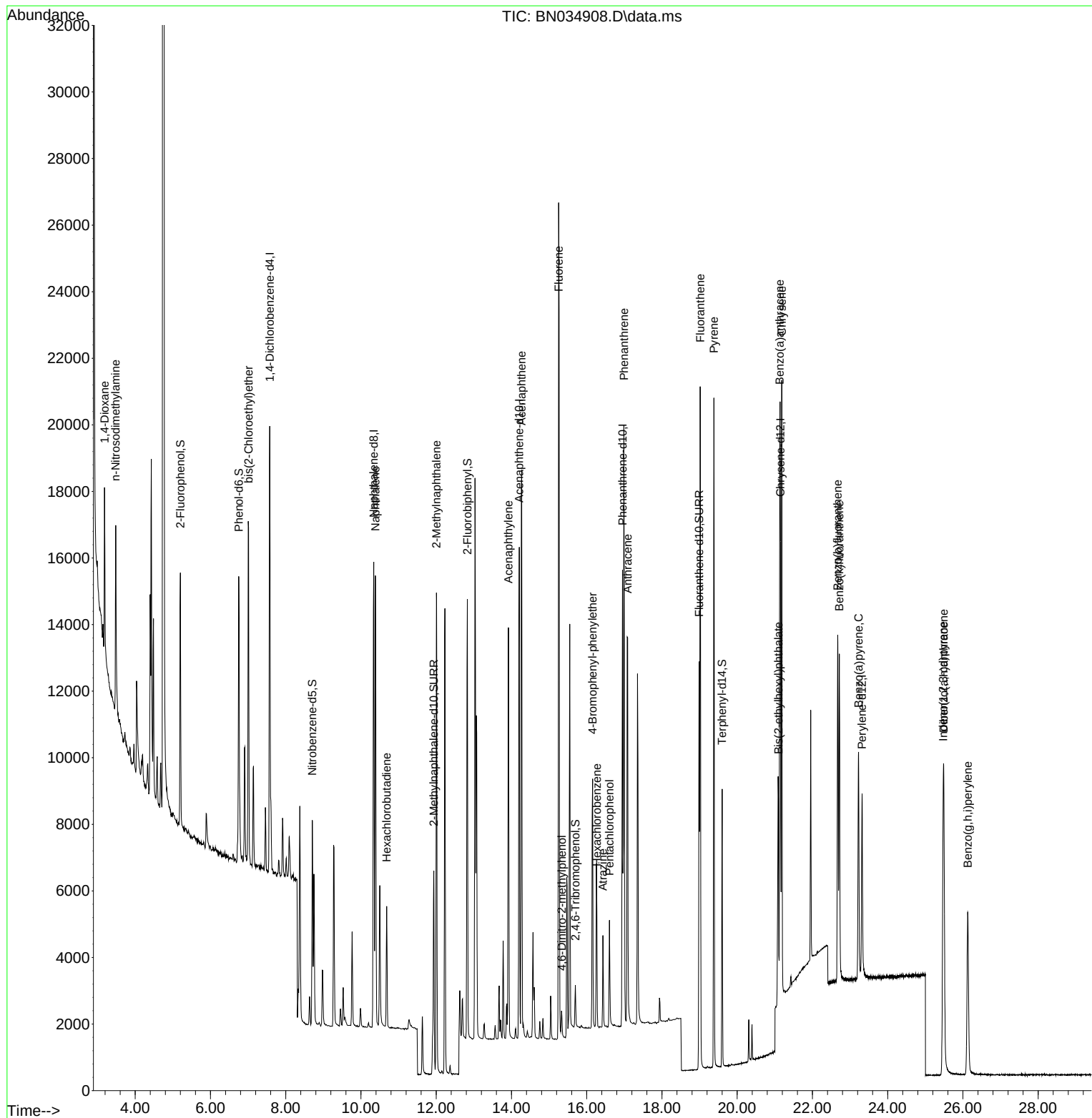
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	6394	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	18264	0.400	ng	0.00
13) Acenaphthene-d10	14.208	164	8109	0.400	ng	0.00
19) Phenanthrene-d10	16.952	188	16416	0.400	ng	# 0.00
29) Chrysene-d12	21.149	240	9189	0.400	ng	0.00
35) Perylene-d12	23.318	264	6982	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.199	112	5648	0.317	ng	0.00
5) Phenol-d6	6.752	99	7497	0.317	ng	0.00
8) Nitrobenzene-d5	8.707	82	4716	0.331	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	9978	0.401	ng	0.00
14) 2,4,6-Tribromophenol	15.698	330	604	0.293	ng	0.00
15) 2-Fluorobiphenyl	12.829	172	11656	0.340	ng	0.00
27) Fluoranthene-d10	18.990	212	12060	0.326	ng	0.00
31) Terphenyl-d14	19.598	244	6553	0.381	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.184	88	2332	0.289	ng	# 51
3) n-Nitrosodimethylamine	3.480	42	3760	0.345	ng	# 96
6) bis(2-Chloroethyl)ether	7.012	93	7060	0.346	ng	99
9) Naphthalene	10.383	128	17084	0.337	ng	99
10) Hexachlorobutadiene	10.682	225	2652	0.328	ng	# 98
12) 2-Methylnaphthalene	12.007	142	10178	0.328	ng	98
16) Acenaphthylene	13.919	152	13375	0.342	ng	99
17) Acenaphthene	14.272	154	9069	0.335	ng	98
18) Fluorene	15.255	166	10991	0.326	ng	100
20) 4,6-Dinitro-2-methylph...	15.341	198	483	0.338	ng	# 57
21) 4-Bromophenyl-phenylether	16.157	248	2752	0.315	ng	# 90
22) Hexachlorobenzene	16.269	284	3487	0.331	ng	98
23) Atrazine	16.431	200	2010	0.317	ng	96
24) Pentachlorophenol	16.604	266	1431	0.528	ng	98
25) Phenanthrene	16.989	178	17543	0.348	ng	100
26) Anthracene	17.088	178	14979	0.345	ng	100
28) Fluoranthene	19.018	202	16938	0.320	ng	99
30) Pyrene	19.380	202	16822	0.362	ng	100
32) Benzo(a)anthracene	21.131	228	12522	0.350	ng	99
33) Chrysene	21.185	228	14069	0.371	ng	98
34) Bis(2-ethylhexyl)phtha...	21.095	149	6022	0.293	ng	99
36) Indeno(1,2,3-cd)pyrene	25.476	276	10522	0.338	ng	100
37) Benzo(b)fluoranthene	22.672	252	11571	0.377	ng	98
38) Benzo(k)fluoranthene	22.716	252	11522	0.361	ng	99
39) Benzo(a)pyrene	23.225	252	9466	0.389	ng	98
40) Dibenzo(a,h)anthracene	25.491	278	8077	0.336	ng	99
41) Benzo(g,h,i)perylene	26.128	276	8607	0.337	ng	98

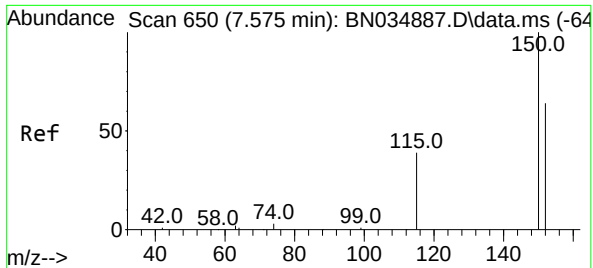
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
Data File : BN034908.D
Acq On : 08 Nov 2024 14:53
Operator : RC/JU
Sample : PB164705BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164705BS

Quant Time: Nov 08 15:44:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 2024
Response via : Initial Calibration

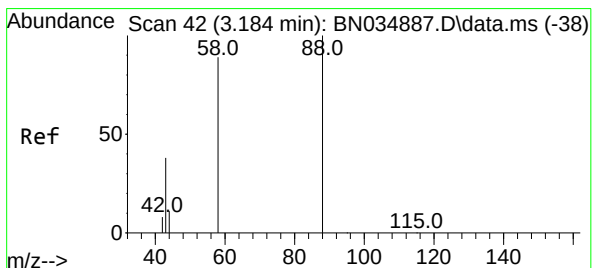
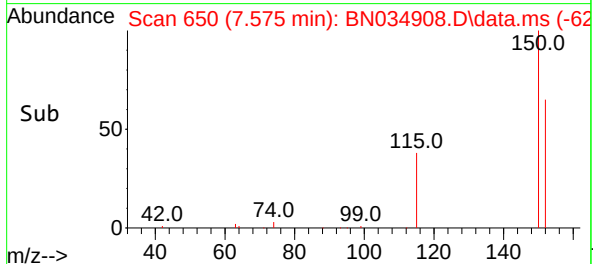
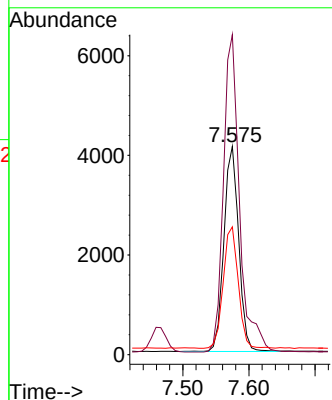
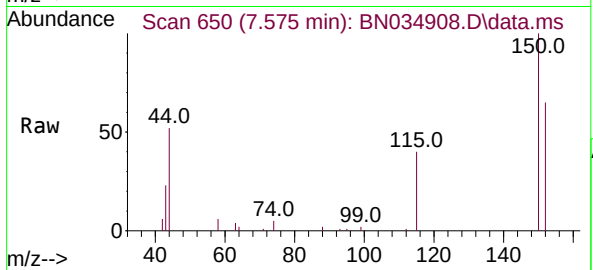




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

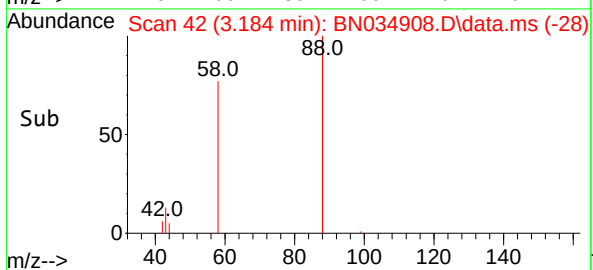
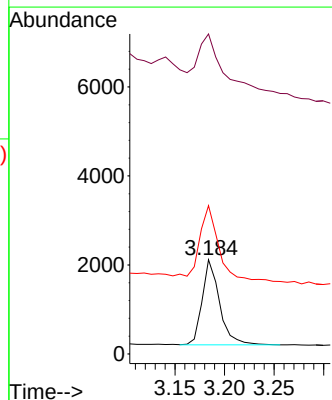
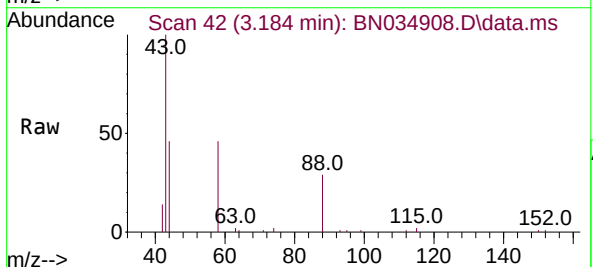
Instrument :
BNA_N
ClientSampleId :
PB164705BS

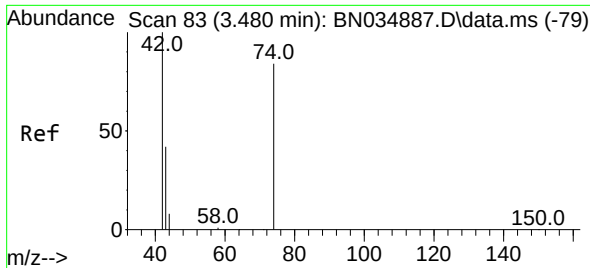
Tgt Ion:152 Resp: 6394
Ion Ratio Lower Upper
152 100
150 153.6 124.4 186.6
115 61.4 50.5 75.7



#2
1,4-Dioxane
Concen: 0.289 ng
RT: 3.184 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion: 88 Resp: 2332
Ion Ratio Lower Upper
88 100
43 102.7 28.2 42.2#
58 102.9 67.1 100.7#

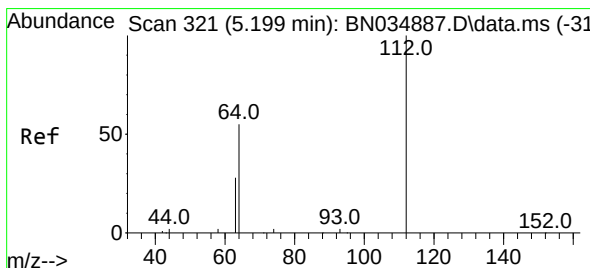
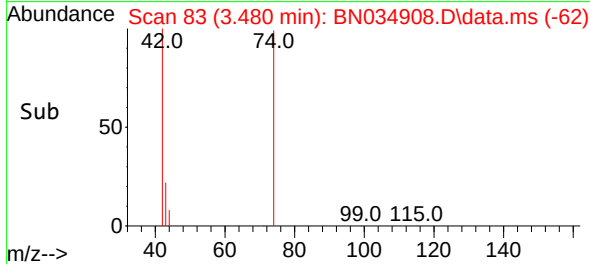
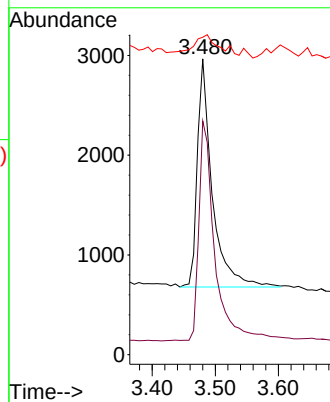
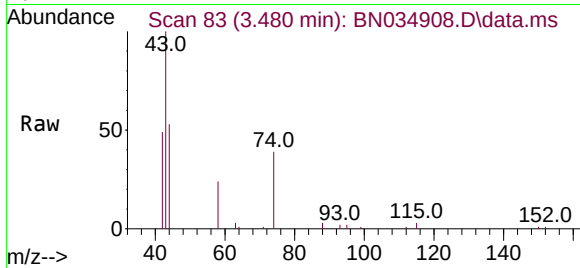




#3
n-Nitrosodimethylamine
Concen: 0.345 ng
RT: 3.480 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

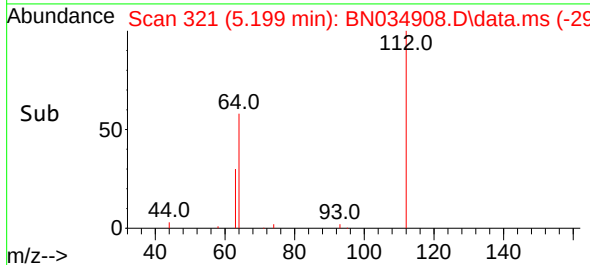
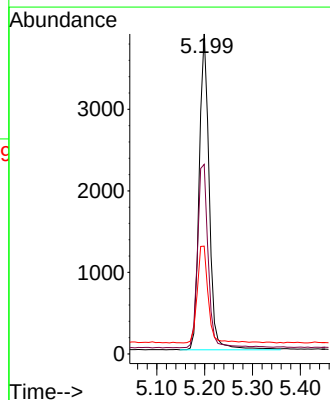
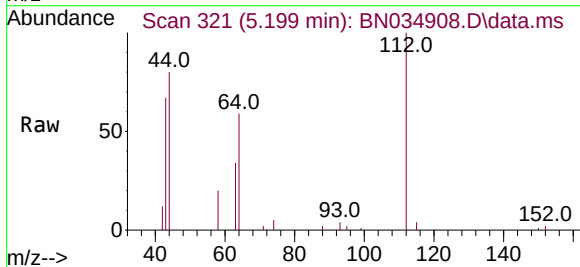
Instrument :
BNA_N
ClientSampleId :
PB164705BS

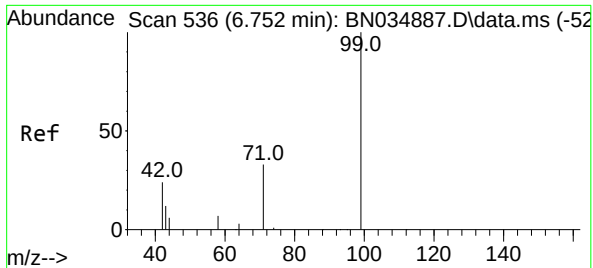
Tgt Ion: 42 Resp: 3760
Ion Ratio Lower Upper
42 100
74 101.3 83.4 125.2
44 15.7 8.6 12.8#



#4
2-Fluorophenol
Concen: 0.317 ng
RT: 5.199 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion: 112 Resp: 5648
Ion Ratio Lower Upper
112 100
64 61.0 49.6 74.4
63 32.6 26.3 39.5

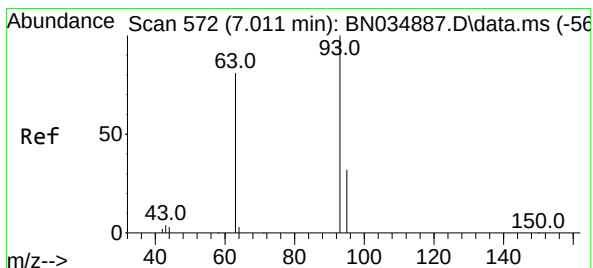
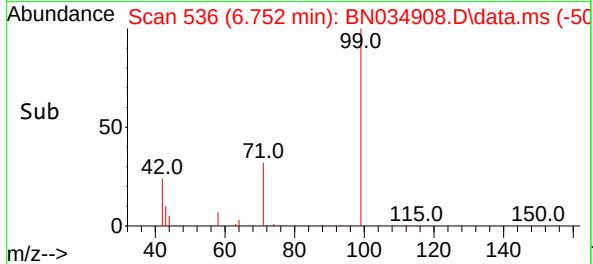
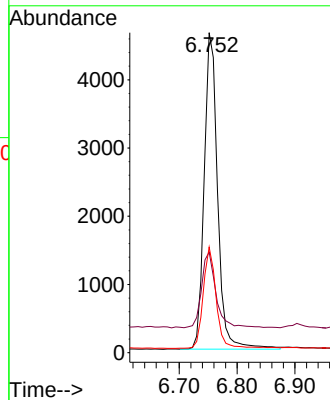
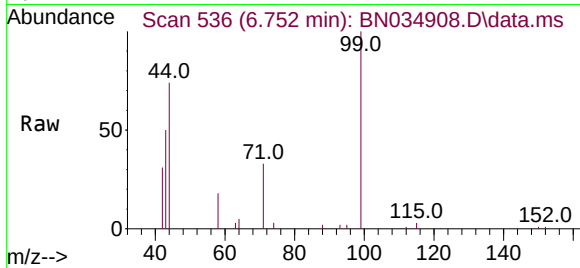




#5
Phenol-d6
Concen: 0.317 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

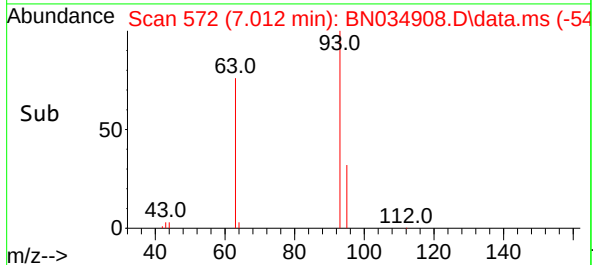
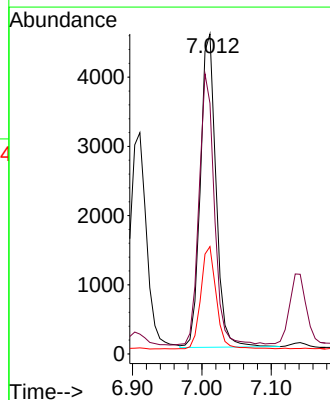
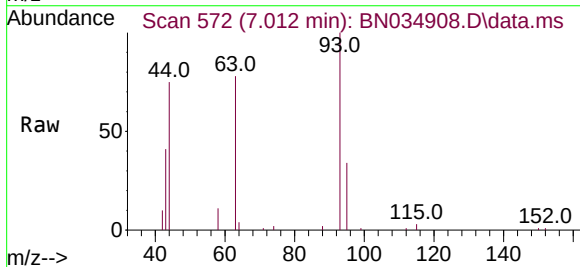
Instrument :
BNA_N
ClientSampleId :
PB164705BS

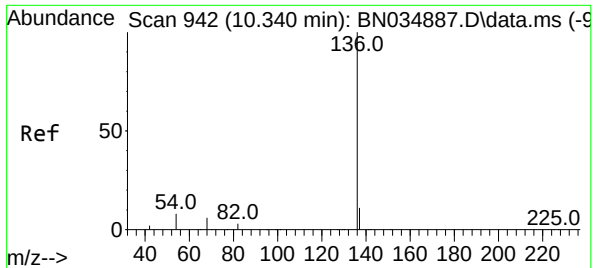
Tgt Ion	Ratio	Lower	Upper
99	100		
42	26.2	20.2	30.2
71	31.2	25.4	38.0



#6
bis(2-Chloroethyl)ether
Concen: 0.346 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion	Ratio	Lower	Upper
93	100		
63	85.2	67.5	101.3
95	32.5	25.7	38.5

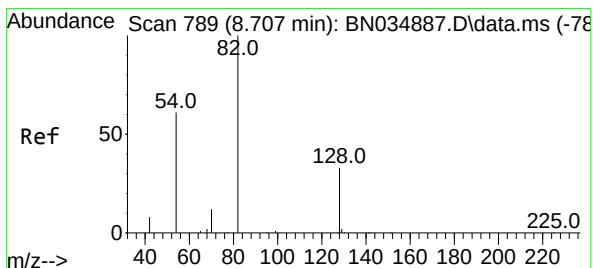
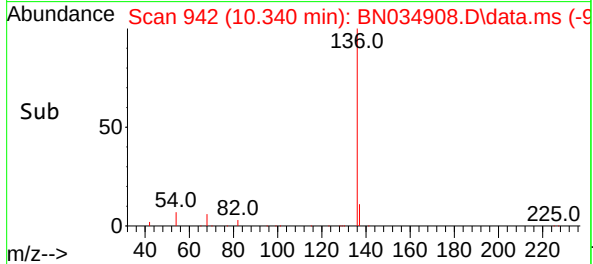
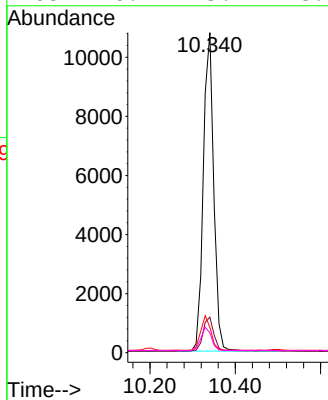
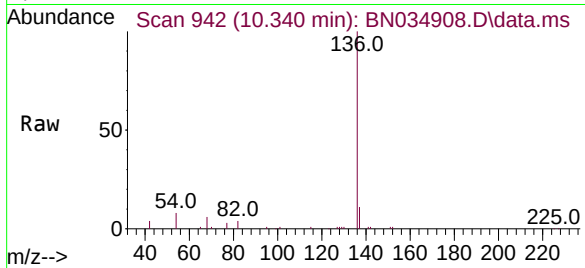




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

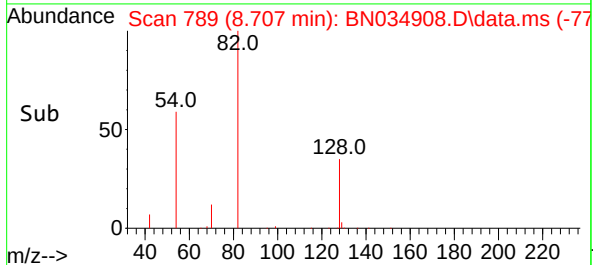
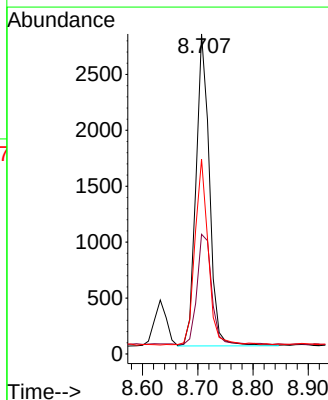
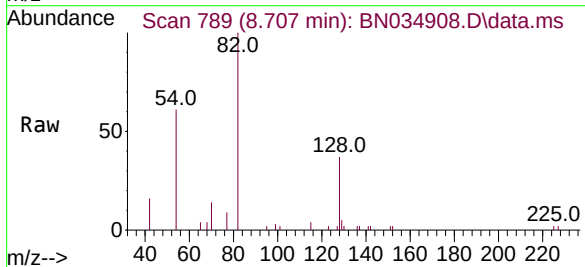
Instrument :
BNA_N
ClientSampleId :
PB164705BS

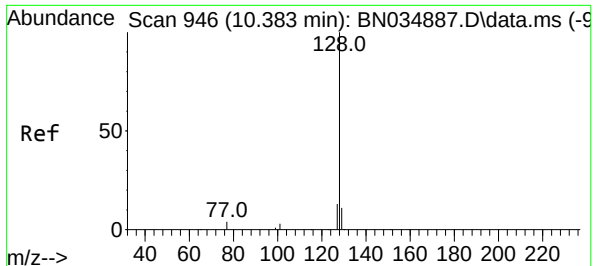
Tgt Ion:	136	Resp:	18264
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.0	6.9	10.3
68	6.2	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.331 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion:	82	Resp:	4716
Ion	Ratio	Lower	Upper
82	100		
128	37.4	28.1	42.1
54	60.9	49.8	74.6

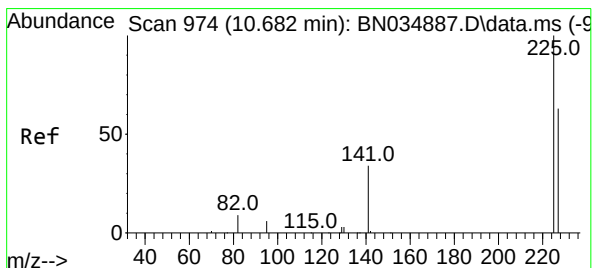
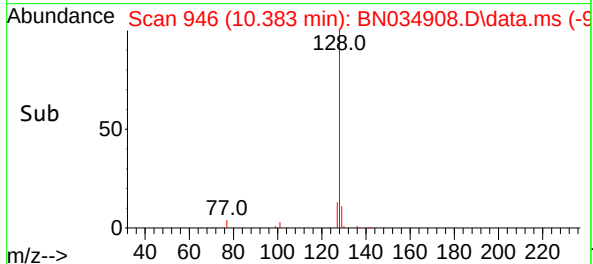
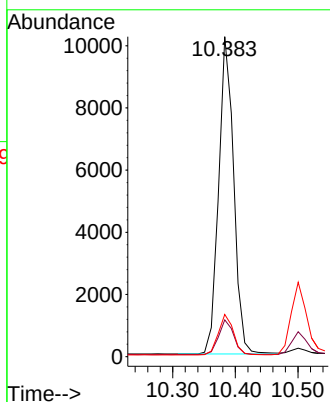
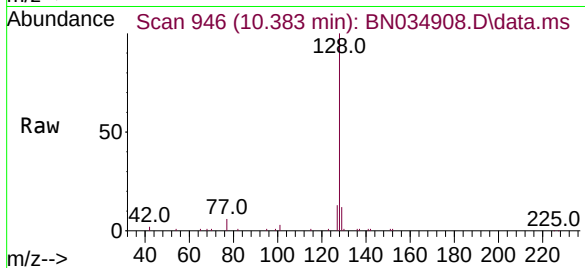




#9
Naphthalene
Concen: 0.337 ng
RT: 10.383 min Scan# 946
Delta R.T. 0.000 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

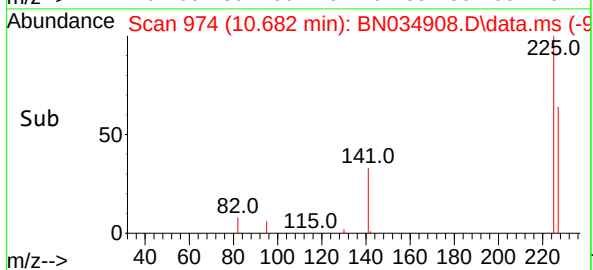
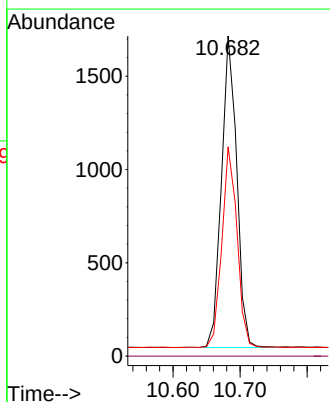
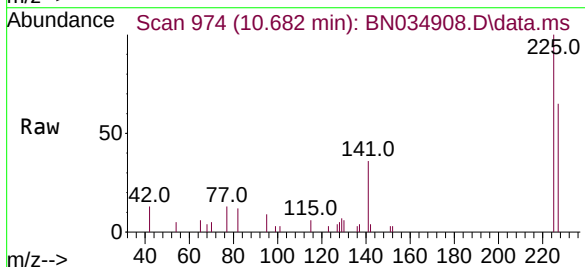
Instrument :
BNA_N
ClientSampleId :
PB164705BS

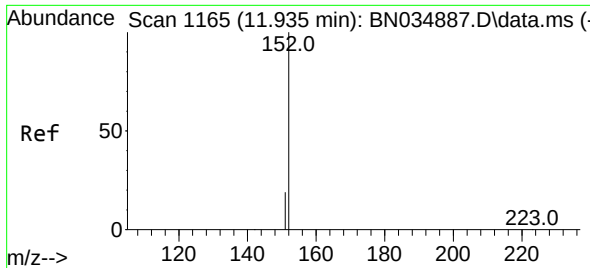
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.0	13.4
127	13.2	10.8	16.2



#10
Hexachlorobutadiene
Concen: 0.328 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	52.0	78.0

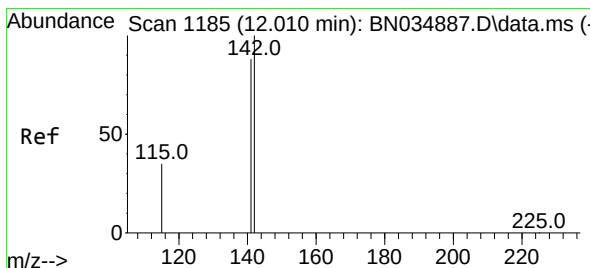
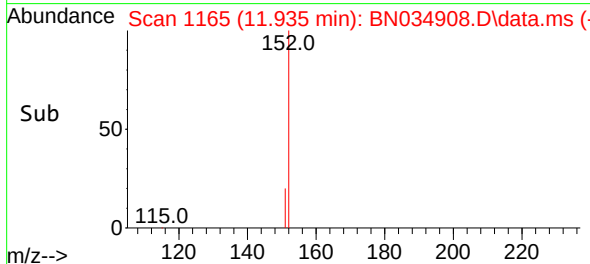
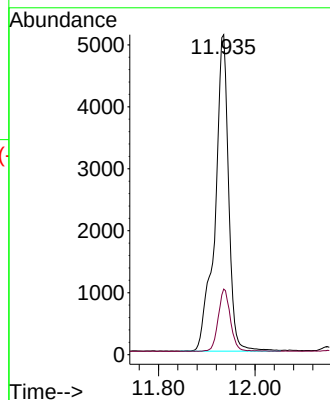
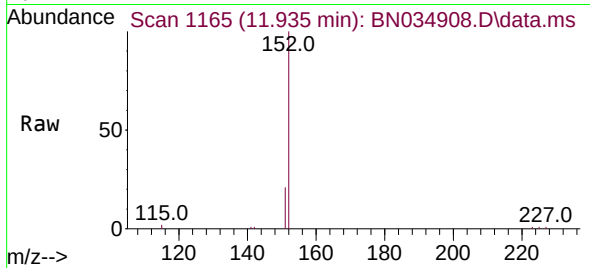




#11
2-Methylnaphthalene-d10
Concen: 0.401 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

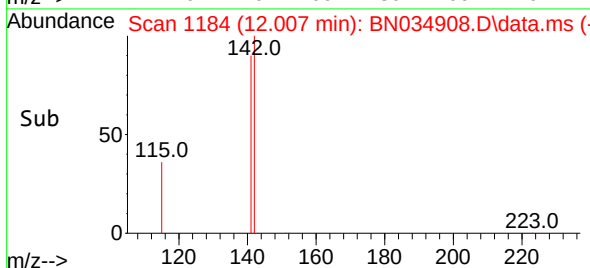
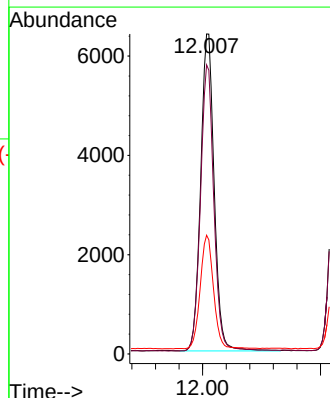
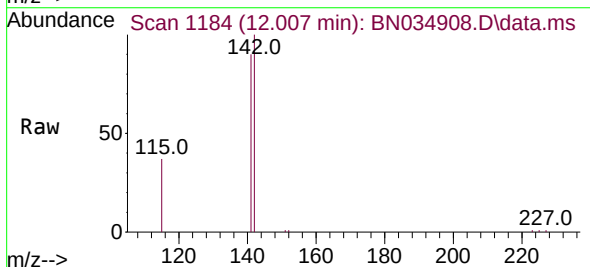
Instrument :
BNA_N
ClientSampleId :
PB164705BS

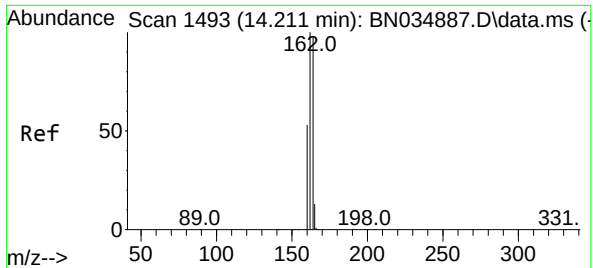
Tgt Ion:152 Resp: 9978
Ion Ratio Lower Upper
152 100
151 17.6 17.1 25.7



#12
2-Methylnaphthalene
Concen: 0.328 ng
RT: 12.007 min Scan# 1184
Delta R.T. -0.004 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion:142 Resp: 10178
Ion Ratio Lower Upper
142 100
141 90.3 70.5 105.7
115 37.1 29.4 44.2

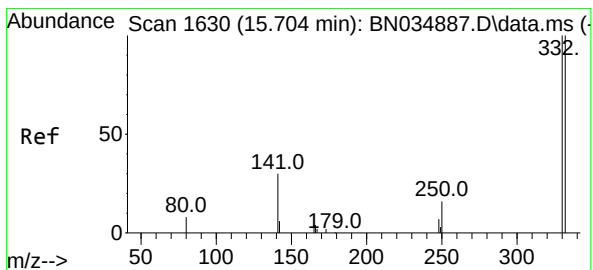
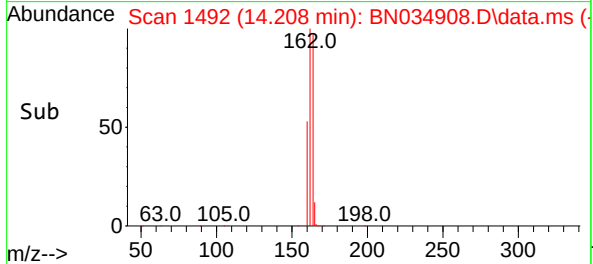
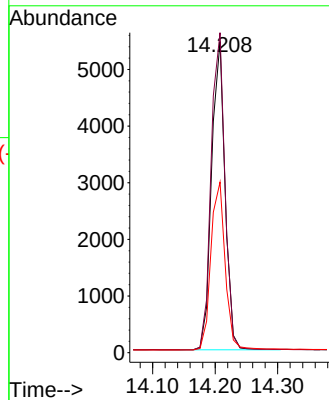
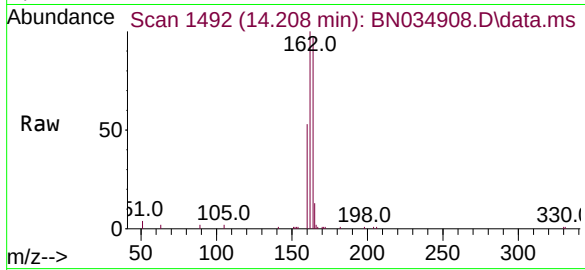




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.208 min Scan# 14
Delta R.T. -0.003 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

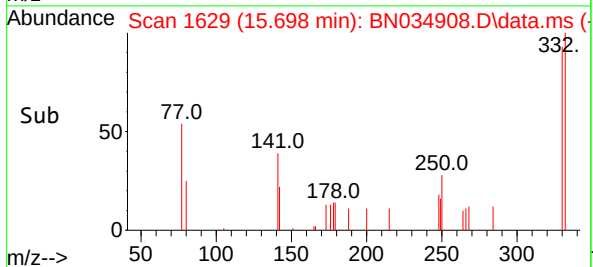
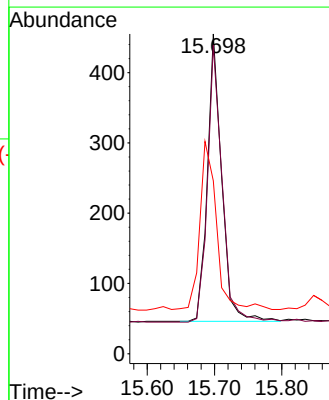
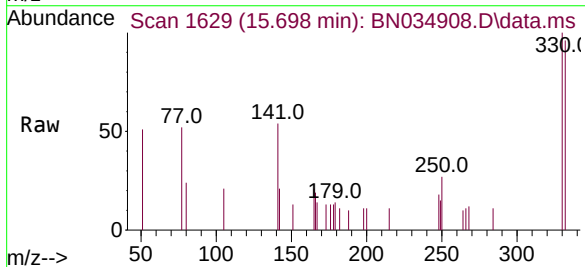
Instrument :
BNA_N
ClientSampleId :
PB164705BS

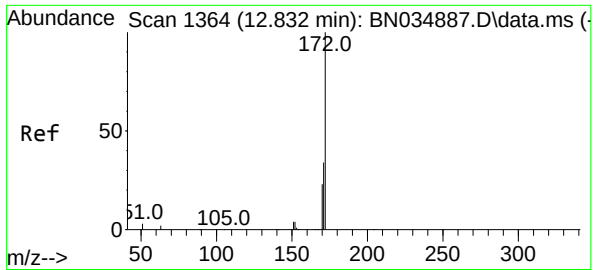
Tgt Ion:164 Resp: 8109
Ion Ratio Lower Upper
164 100
162 102.8 81.9 122.9
160 54.8 43.5 65.3



#14
2,4,6-Tribromophenol
Concen: 0.293 ng
RT: 15.698 min Scan# 1629
Delta R.T. -0.006 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion:330 Resp: 604
Ion Ratio Lower Upper
330 100
332 99.3 77.1 115.7
141 67.1 54.1 81.1

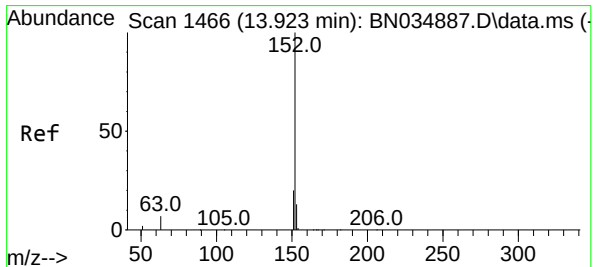
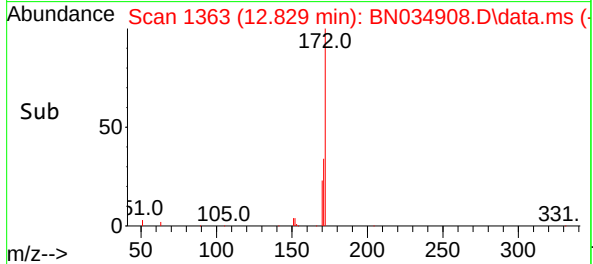
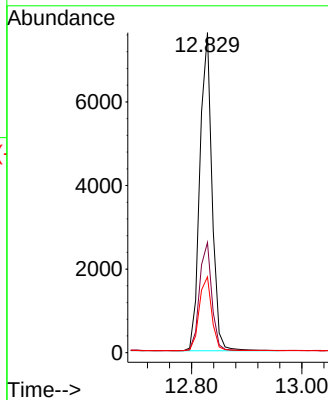
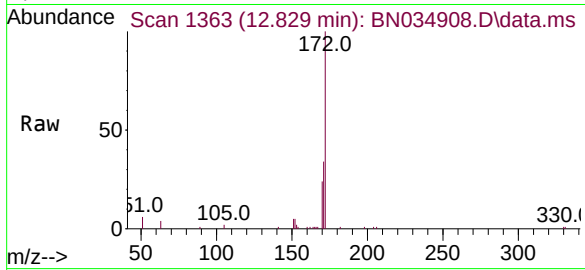




#15
2-Fluorobiphenyl
Concen: 0.340 ng
RT: 12.829 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

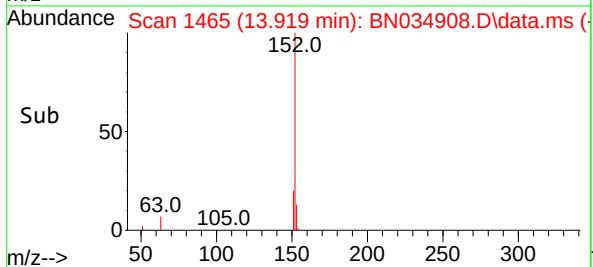
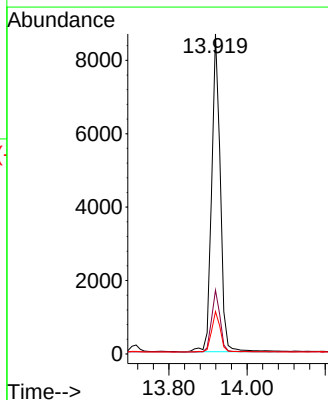
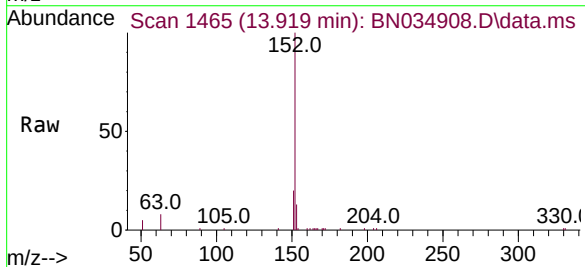
Instrument :
BNA_N
ClientSampleId :
PB164705BS

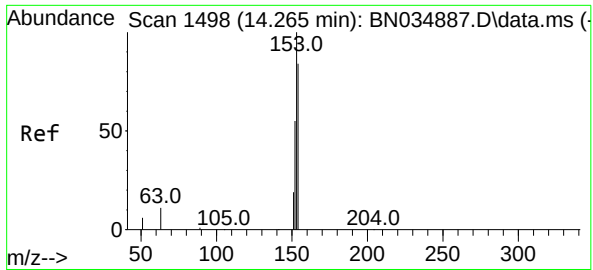
Tgt Ion:	172	Resp:	11656
Ion Ratio	Lower	Upper	
172	100		
171	34.5	27.9	41.9
170	23.7	19.0	28.4



#16
Acenaphthylene
Concen: 0.342 ng
RT: 13.919 min Scan# 1465
Delta R.T. -0.004 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion:	152	Resp:	13375
Ion Ratio	Lower	Upper	
152	100		
151	19.4	15.2	22.8
153	12.9	10.4	15.6

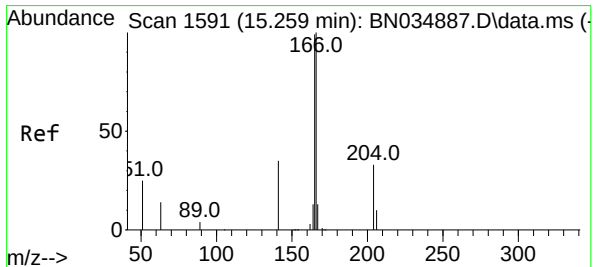
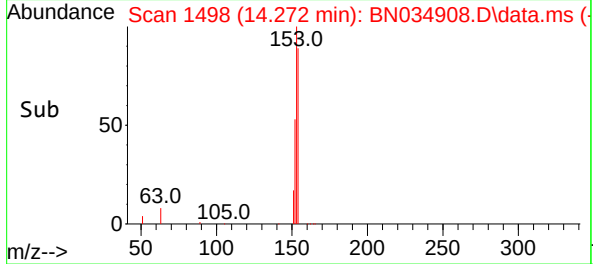
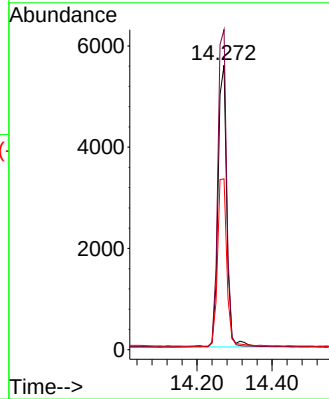
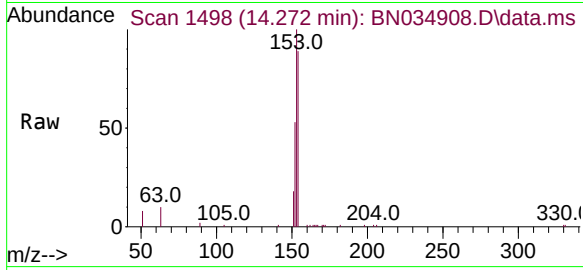




#17
Acenaphthene
Concen: 0.335 ng
RT: 14.272 min Scan# 1498
Delta R.T. 0.007 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

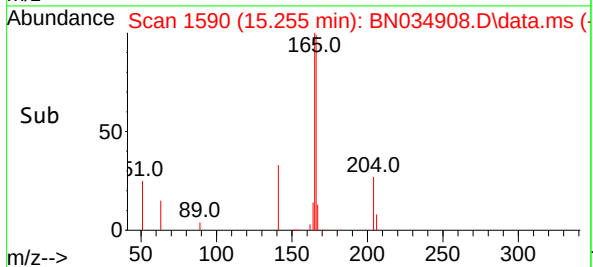
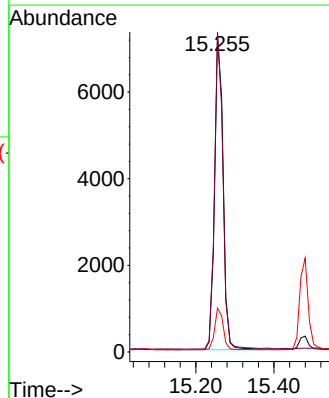
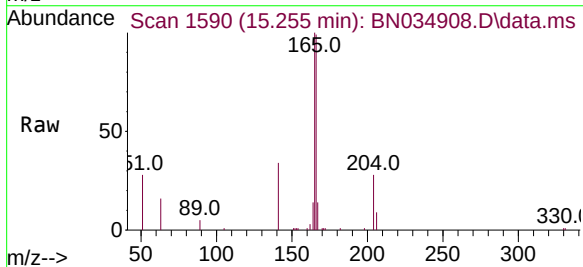
Instrument :
BNA_N
ClientSampleId :
PB164705BS

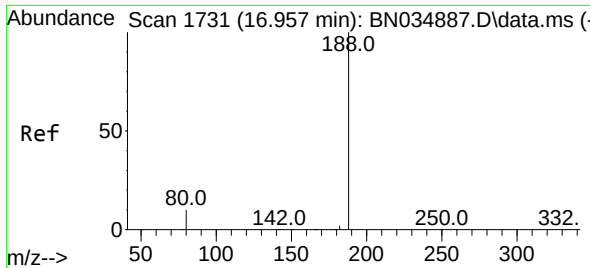
Tgt Ion:154 Resp: 9069
Ion Ratio Lower Upper
154 100
153 112.7 92.2 138.2
152 63.1 51.1 76.7



#18
Fluorene
Concen: 0.326 ng
RT: 15.255 min Scan# 1590
Delta R.T. -0.004 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion:166 Resp: 10991
Ion Ratio Lower Upper
166 100
165 99.2 79.5 119.3
167 13.4 10.6 16.0

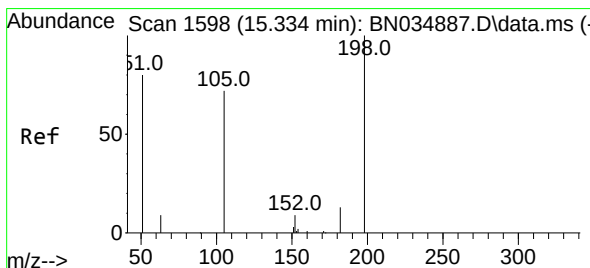
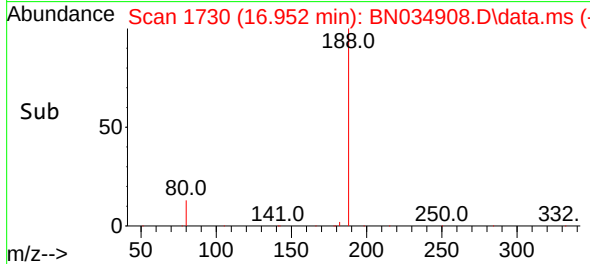
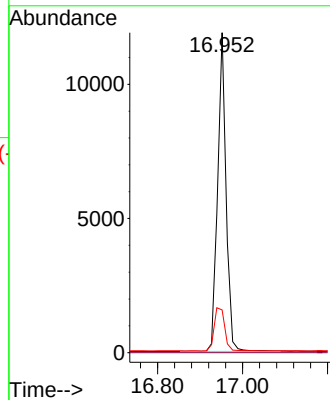
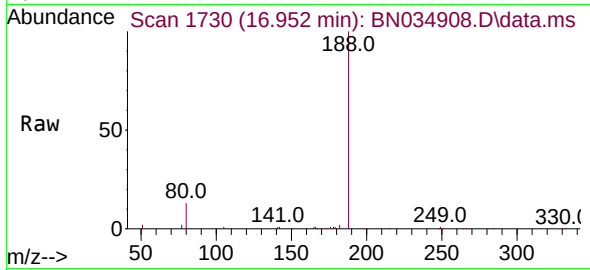




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.952 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

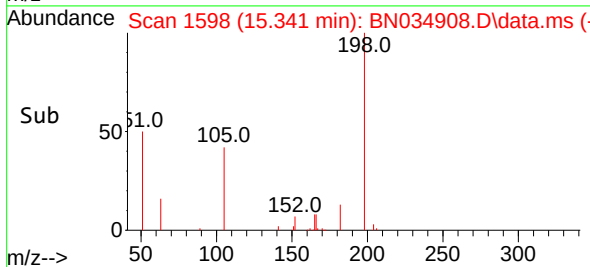
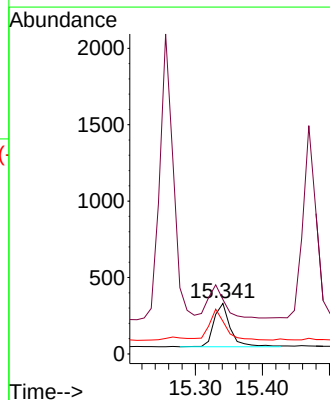
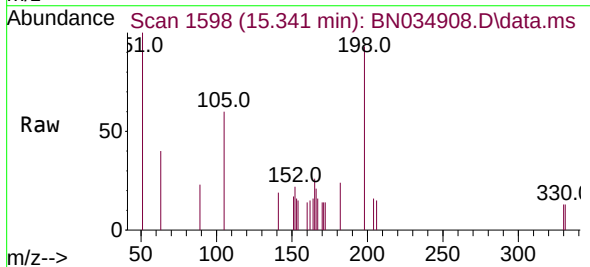
Instrument :
BNA_N
ClientSampleId :
PB164705BS

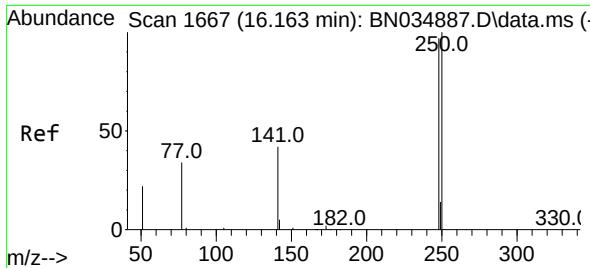
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.4	8.6	12.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.338 ng
RT: 15.341 min Scan# 1598
Delta R.T. 0.007 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion	Ratio	Lower	Upper
198	100		
51	107.6	141.8	212.8#
105	64.4	75.6	113.4#

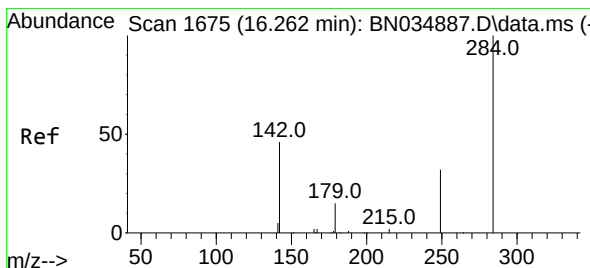
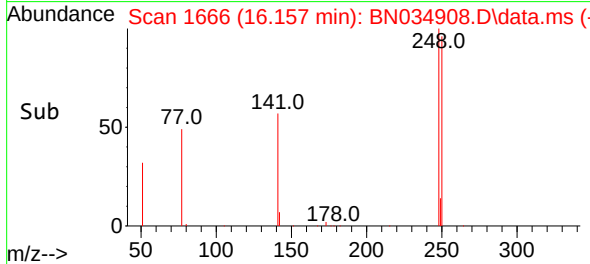
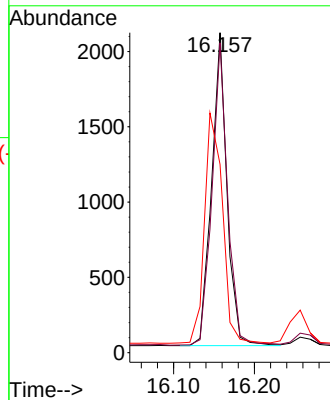
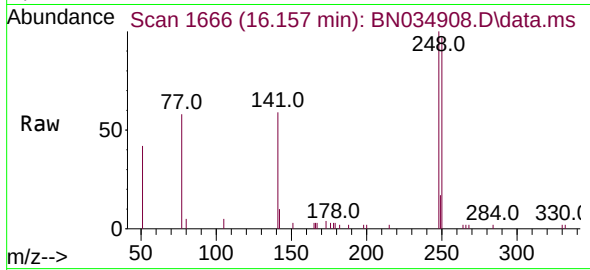




#21
4-Bromophenyl-phenylether
Concen: 0.315 ng
RT: 16.157 min Scan# 1666
Delta R.T. -0.005 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

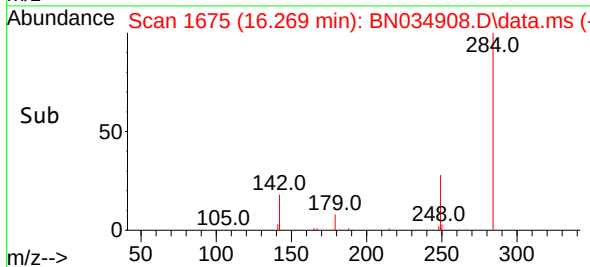
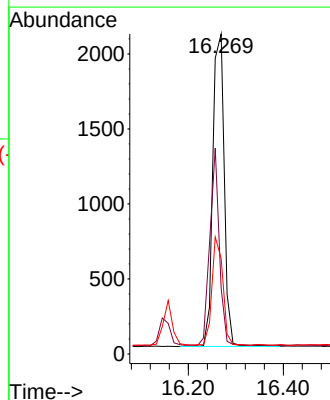
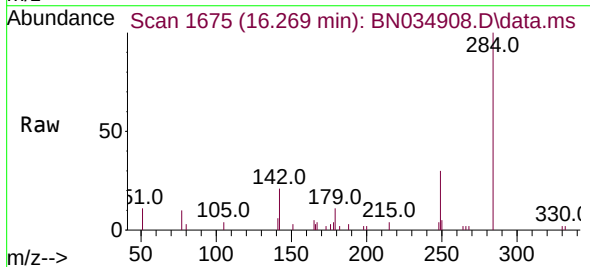
Instrument :
BNA_N
ClientSampleId :
PB164705BS

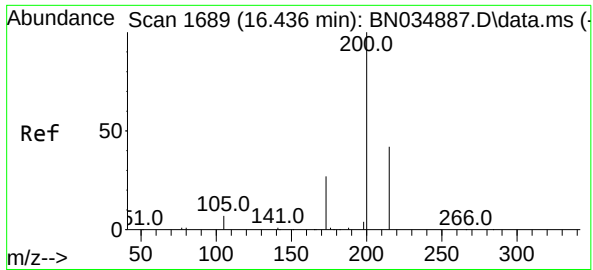
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.8	82.2	123.4
141	58.8	36.2	54.2



#22
Hexachlorobenzene
Concen: 0.331 ng
RT: 16.269 min Scan# 1675
Delta R.T. 0.007 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion	Ratio	Lower	Upper
284	100		
142	52.5	43.4	65.2
249	33.0	25.8	38.6

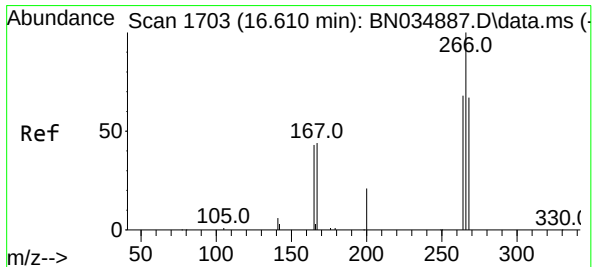
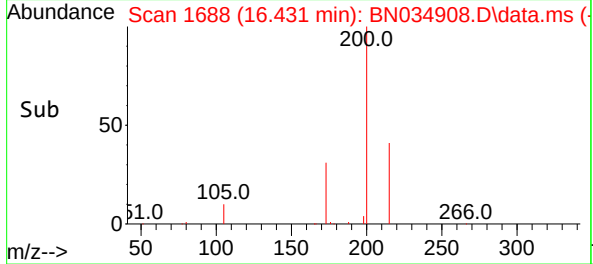
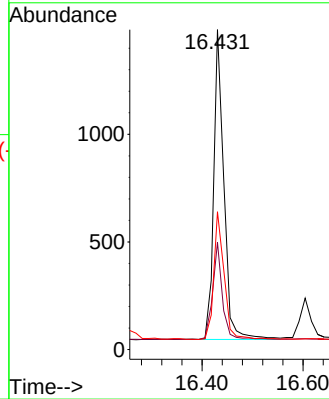
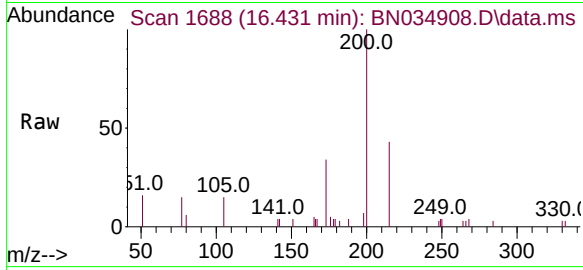




#23
Atrazine
Concen: 0.317 ng
RT: 16.431 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

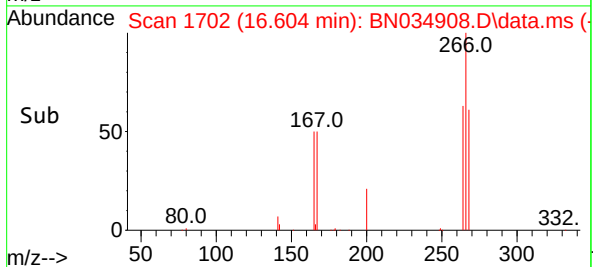
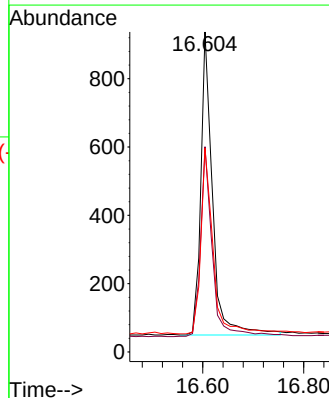
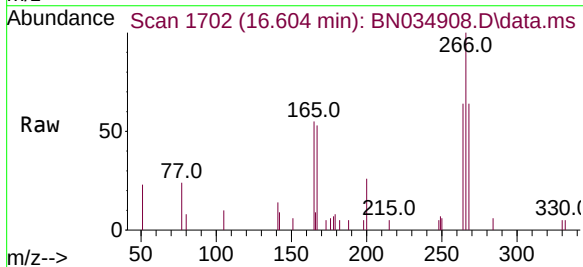
Instrument :
BNA_N
ClientSampleId :
PB164705BS

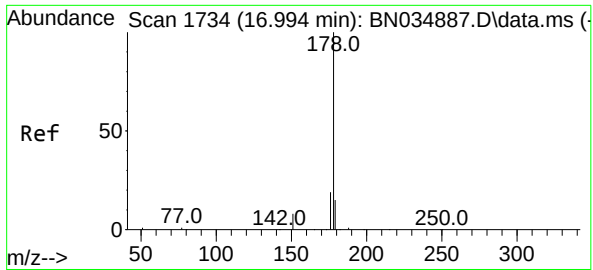
Tgt Ion	Ratio	Lower	Upper
200	100		
173	33.5	23.4	35.2
215	43.1	35.4	53.0



#24
Pentachlorophenol
Concen: 0.528 ng
RT: 16.604 min Scan# 1702
Delta R.T. -0.006 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.2	51.3	76.9
268	63.9	53.0	79.6

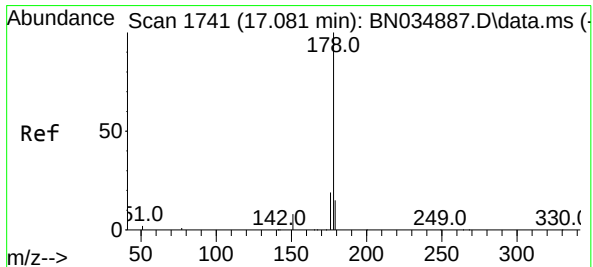
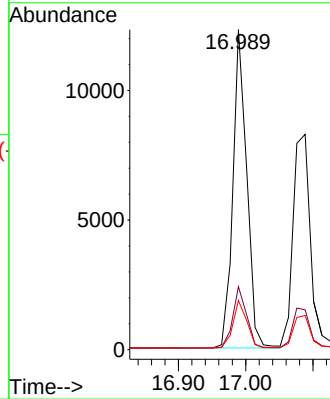
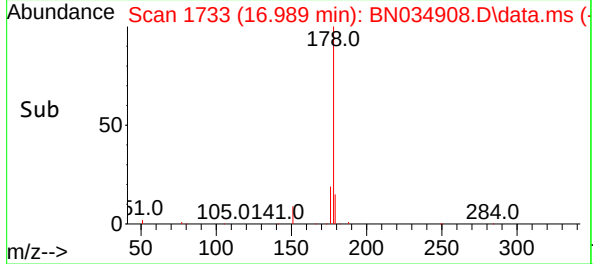
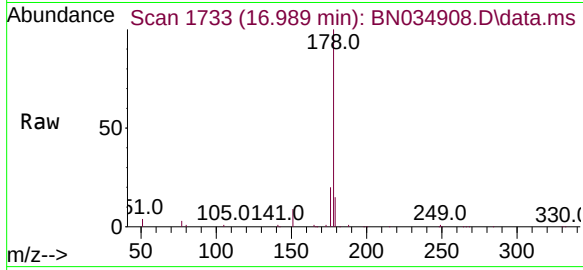




#25
Phenanthrene
Concen: 0.348 ng
RT: 16.989 min Scan# 1733
Delta R.T. -0.005 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

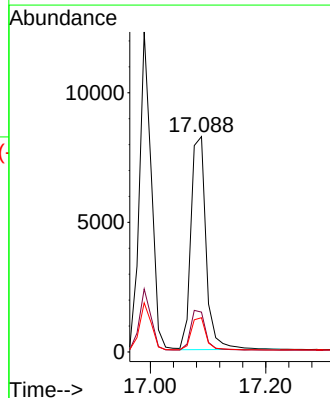
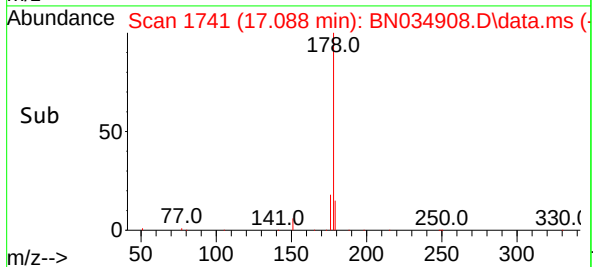
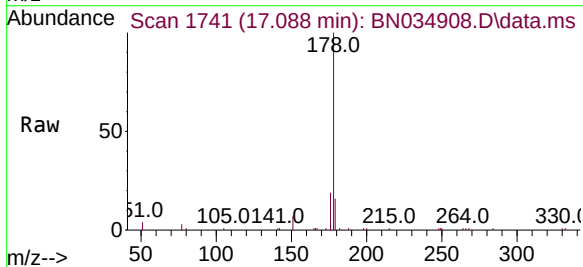
Instrument :
BNA_N
ClientSampleId :
PB164705BS

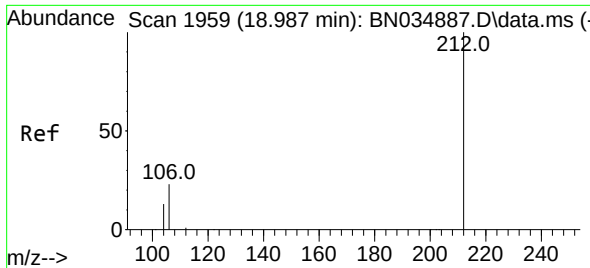
Tgt Ion:178 Resp: 17543
Ion Ratio Lower Upper
178 100
176 19.3 15.5 23.3
179 15.1 12.2 18.2



#26
Anthracene
Concen: 0.345 ng
RT: 17.088 min Scan# 1741
Delta R.T. 0.007 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion:178 Resp: 14979
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.2 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.326 ng

RT: 18.990 min Scan# 1958

Delta R.T. 0.002 min

Lab File: BN034908.D

Acq: 08 Nov 2024 14:53

Instrument :

BNA_N

ClientSampleId :

PB164705BS

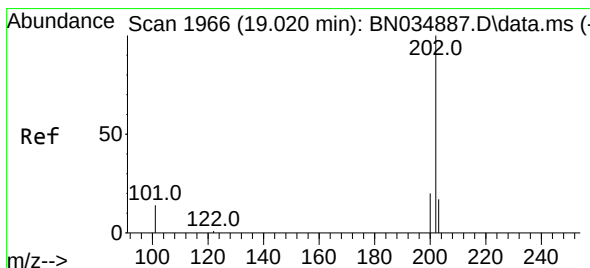
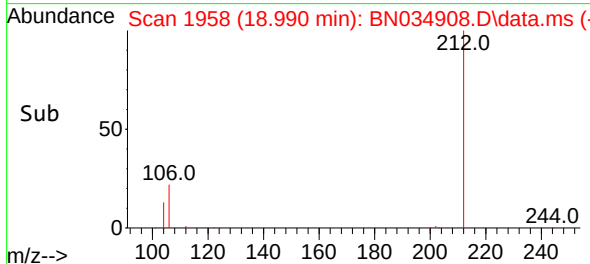
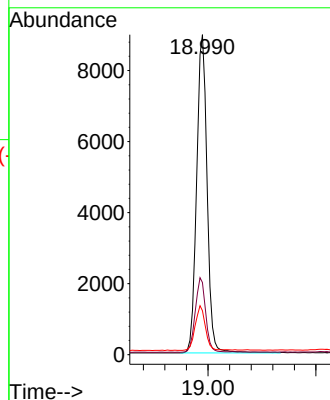
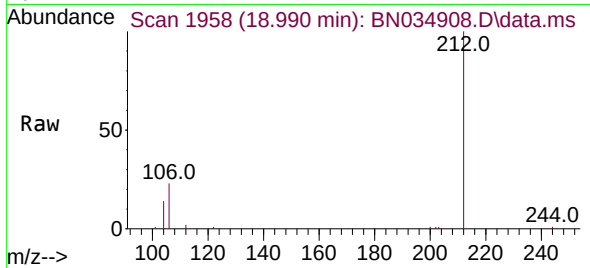
Tgt Ion:212 Resp: 12060

Ion Ratio Lower Upper

212 100

106 23.3 18.2 27.4

104 13.7 10.6 15.8



#28

Fluoranthene

Concen: 0.320 ng

RT: 19.018 min Scan# 1964

Delta R.T. -0.002 min

Lab File: BN034908.D

Acq: 08 Nov 2024 14:53

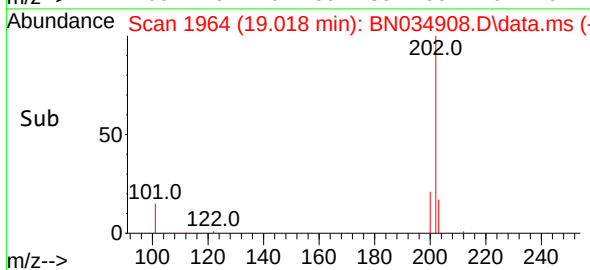
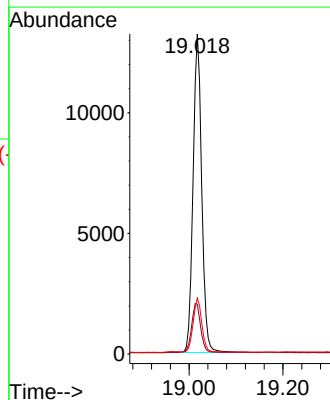
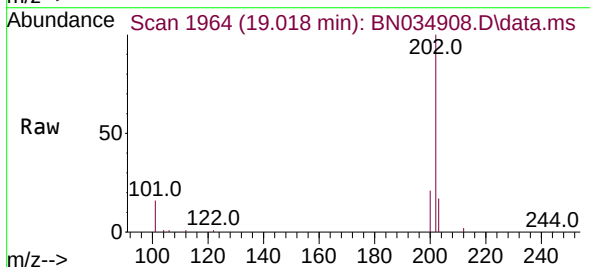
Tgt Ion:202 Resp: 16938

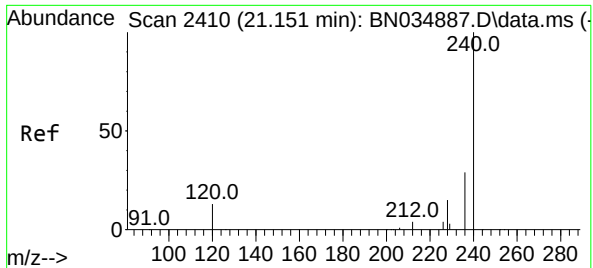
Ion Ratio Lower Upper

202 100

101 16.3 12.7 19.1

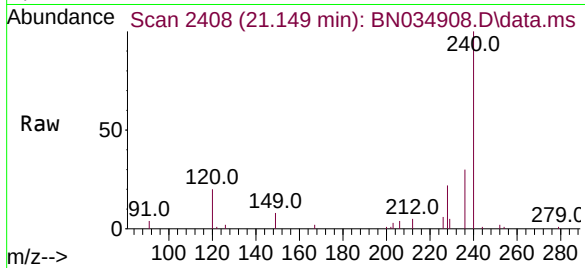
203 16.9 13.7 20.5



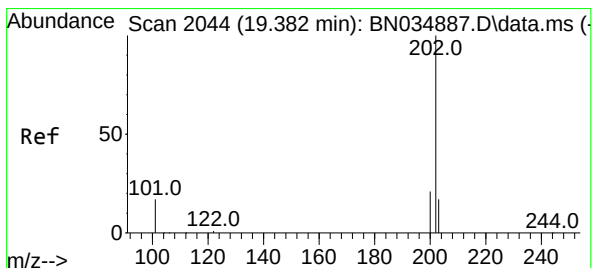
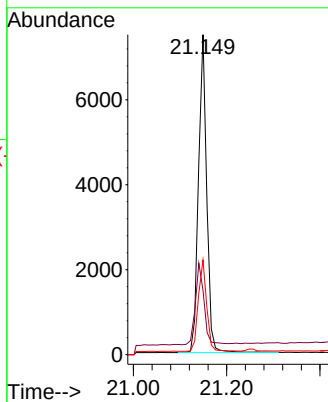
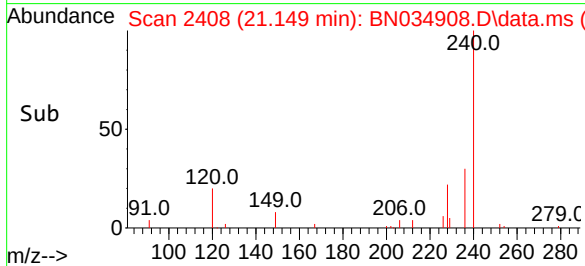


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.149 min Scan# 2408
Delta R.T. -0.002 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

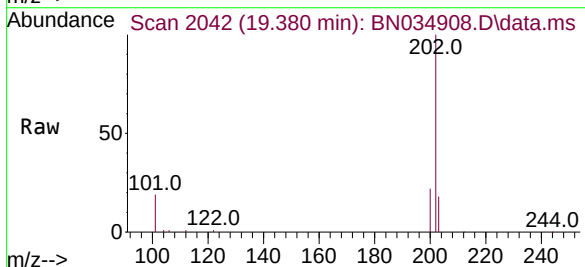
Instrument :
BNA_N
ClientSampleId :
PB164705BS



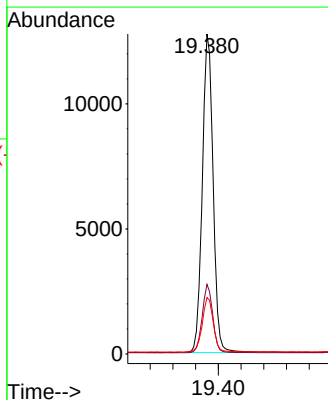
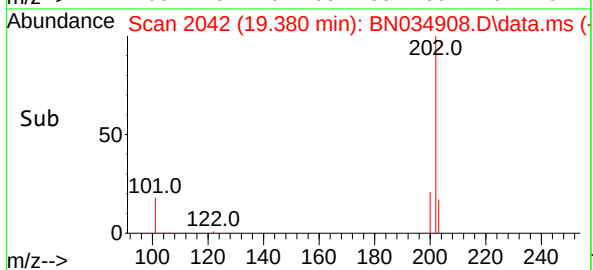
Tgt Ion	Ratio	Lower	Upper
240	100		
120	20.1	13.8	20.8
236	29.5	23.8	35.6

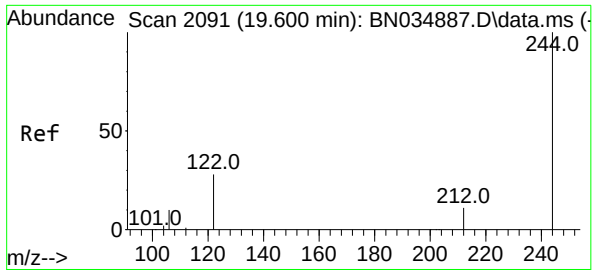


#30
Pyrene
Concen: 0.362 ng
RT: 19.380 min Scan# 2042
Delta R.T. -0.002 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53



Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.6	14.1	21.1

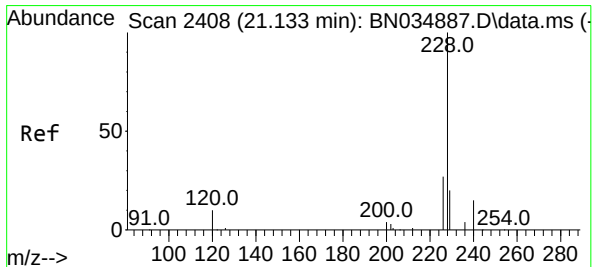
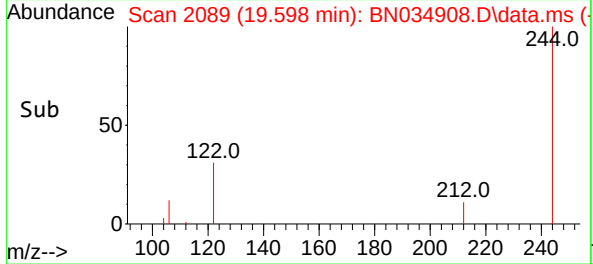
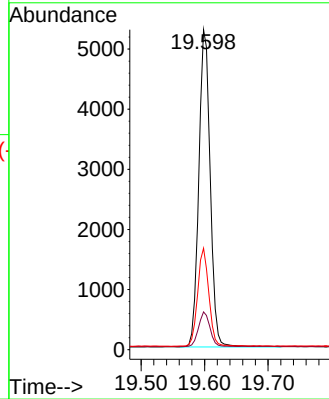
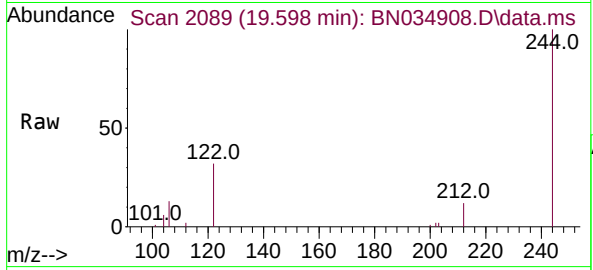




#31
Terphenyl-d14
Concen: 0.381 ng
RT: 19.598 min Scan# 2091
Delta R.T. -0.002 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

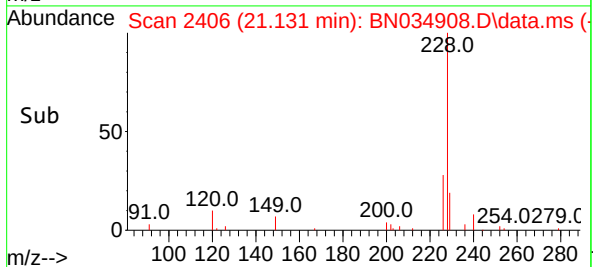
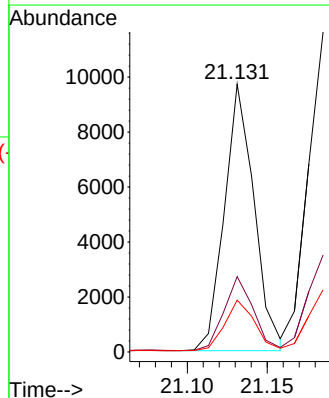
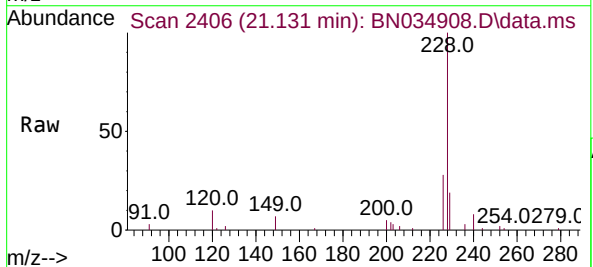
Instrument :
BNA_N
ClientSampleId :
PB164705BS

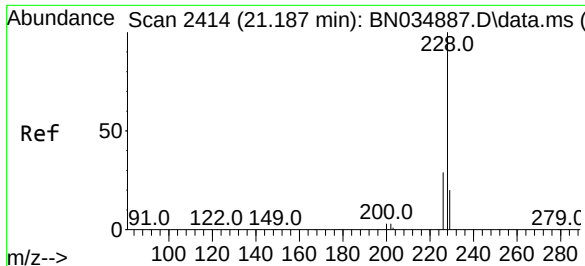
Tgt Ion:244 Resp: 6553
Ion Ratio Lower Upper
244 100
212 11.8 9.4 14.0
122 31.7 23.0 34.4



#32
Benzo(a)anthracene
Concen: 0.350 ng
RT: 21.131 min Scan# 2406
Delta R.T. -0.002 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion:228 Resp: 12522
Ion Ratio Lower Upper
228 100
226 28.2 22.2 33.2
229 19.3 16.0 24.0

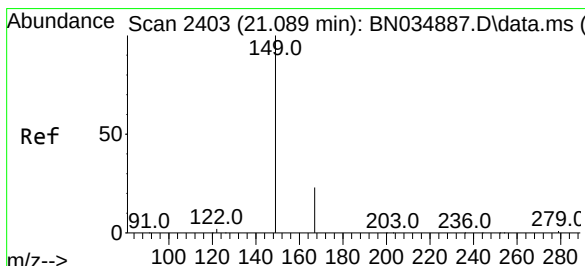
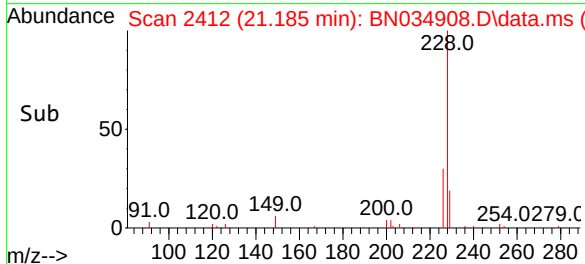
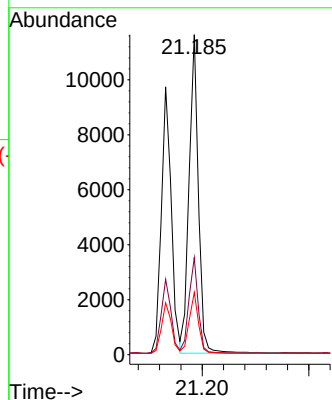
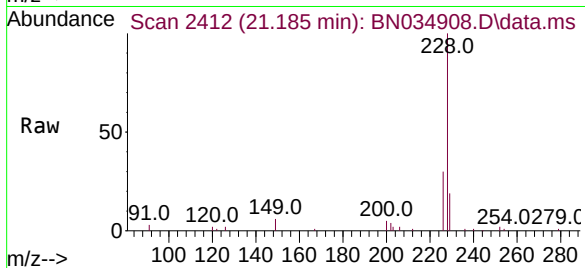




#33
Chrysene
Concen: 0.371 ng
RT: 21.185 min Scan# 2414
Delta R.T. -0.002 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

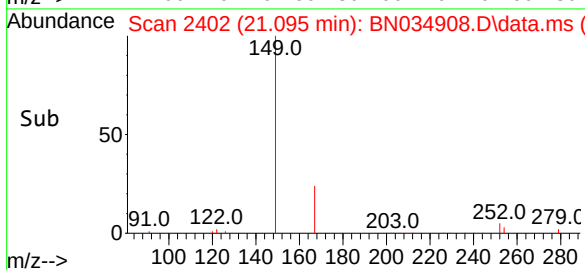
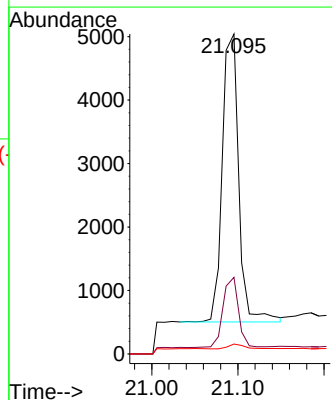
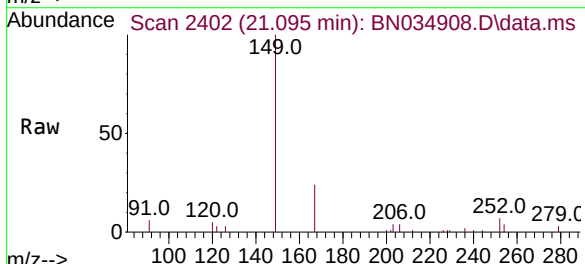
Instrument :
BNA_N
ClientSampleId :
PB164705BS

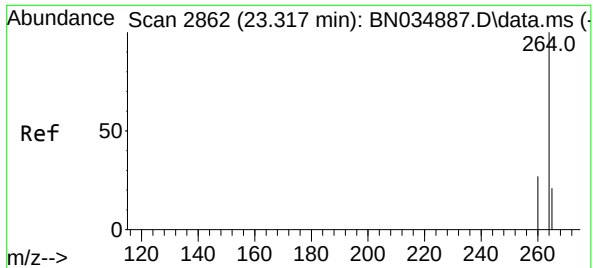
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.7	35.5
229	19.5	16.3	24.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.293 ng
RT: 21.095 min Scan# 2402
Delta R.T. 0.006 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion	Ratio	Lower	Upper
149	100		
167	22.9	18.1	27.1
279	1.6	1.2	1.8

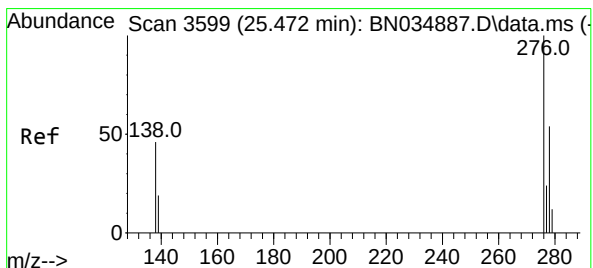
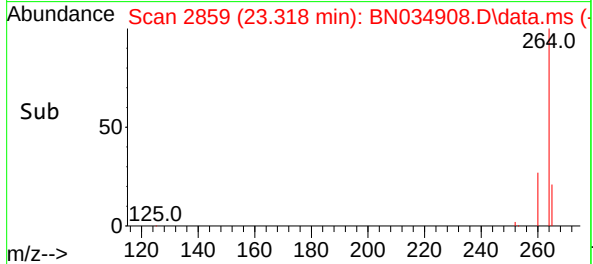
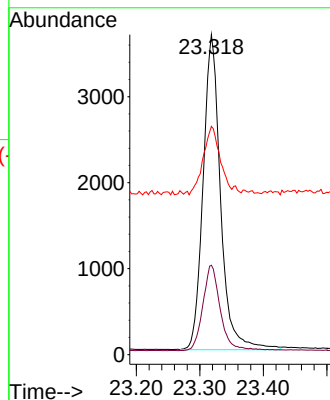
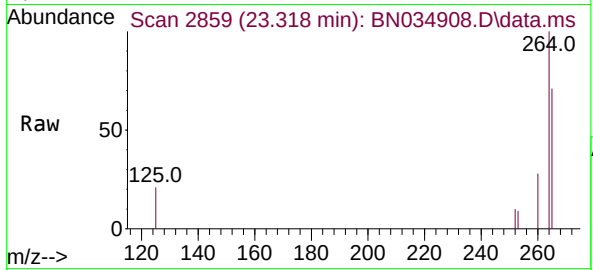




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.318 min Scan# 21
Delta R.T. 0.001 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

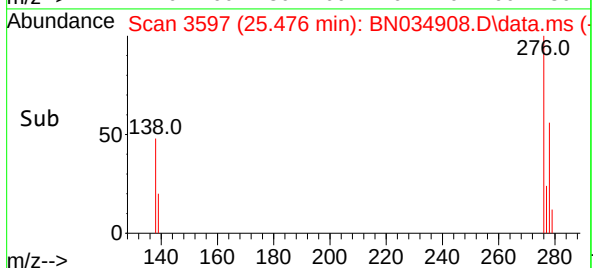
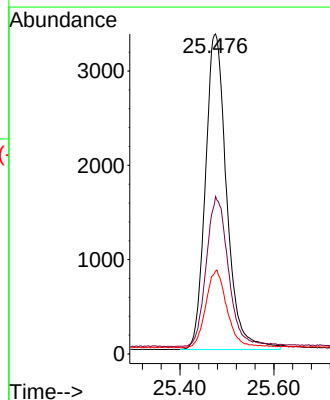
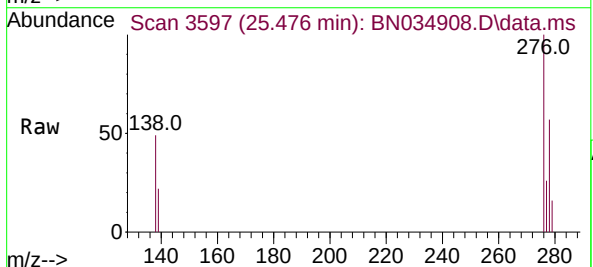
Instrument :
BNA_N
ClientSampleId :
PB164705BS

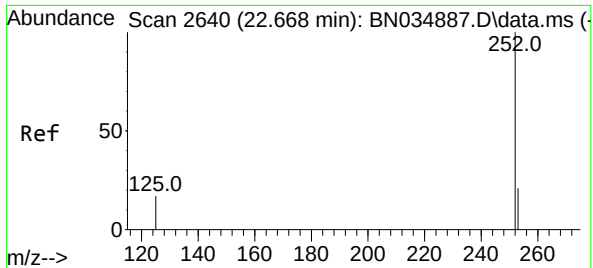
Tgt Ion:264 Resp: 6982
Ion Ratio Lower Upper
264 100
260 27.9 22.2 33.2
265 71.4 60.9 91.3



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.338 ng
RT: 25.476 min Scan# 3597
Delta R.T. 0.004 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion:276 Resp: 10522
Ion Ratio Lower Upper
276 100
138 48.4 38.4 57.6
277 24.3 19.4 29.2

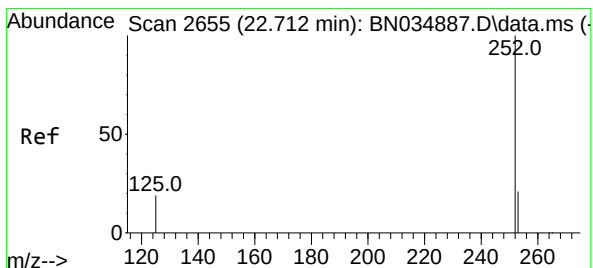
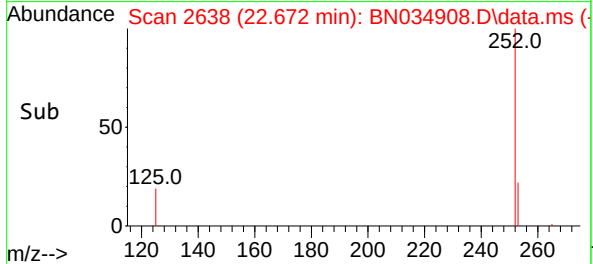
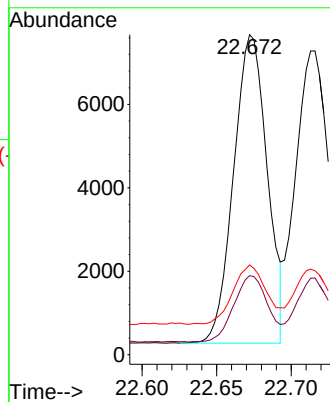
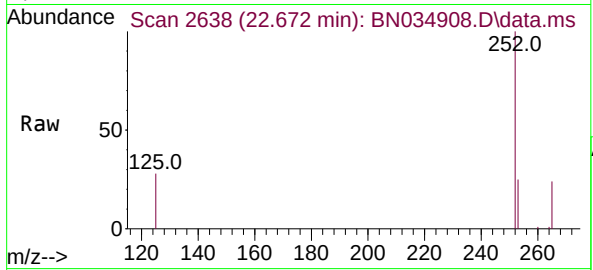




#37
Benzo(b)fluoranthene
Concen: 0.377 ng
RT: 22.672 min Scan# 2638
Delta R.T. 0.004 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

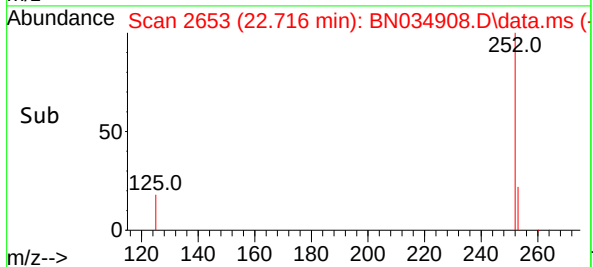
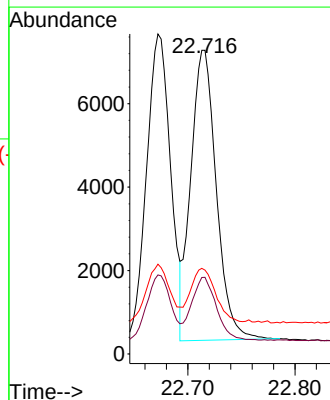
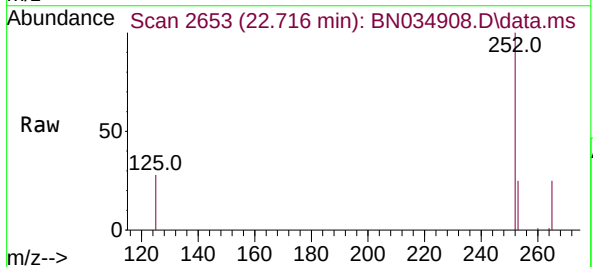
Instrument :
BNA_N
ClientSampleId :
PB164705BS

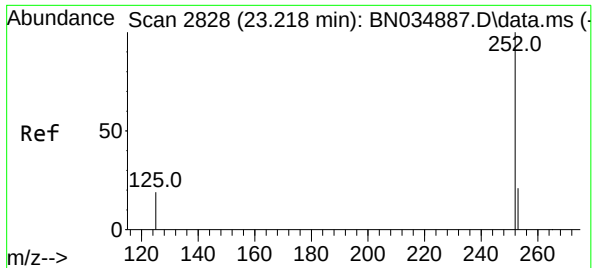
Tgt Ion:252 Resp: 11571
Ion Ratio Lower Upper
252 100
253 24.7 19.4 29.2
125 28.0 21.4 32.2



#38
Benzo(k)fluoranthene
Concen: 0.361 ng
RT: 22.716 min Scan# 2653
Delta R.T. 0.004 min
Lab File: BN034908.D
Acq: 08 Nov 2024 14:53

Tgt Ion:252 Resp: 11522
Ion Ratio Lower Upper
252 100
253 25.3 19.8 29.8
125 27.6 22.6 33.8





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 23.225 min Scan# 21

Delta R.T. 0.007 min

Lab File: BN034908.D

Acq: 08 Nov 2024 14:53

Instrument :

BNA_N

ClientSampleId :

PB164705BS

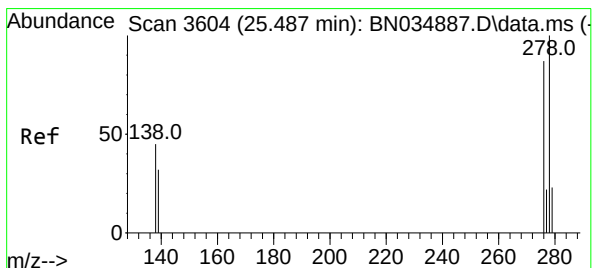
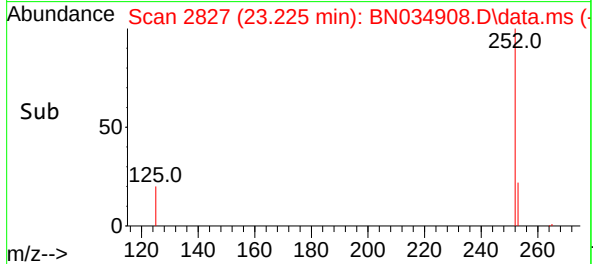
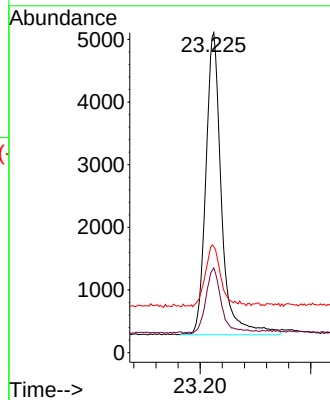
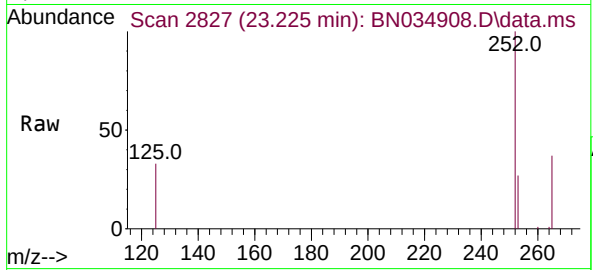
Tgt Ion:252 Resp: 9466

Ion Ratio Lower Upper

252 100

253 26.5 21.4 32.2

125 33.2 27.8 41.6



#40

Dibenzo(a,h)anthracene

Concen: 0.336 ng

RT: 25.491 min Scan# 3602

Delta R.T. 0.004 min

Lab File: BN034908.D

Acq: 08 Nov 2024 14:53

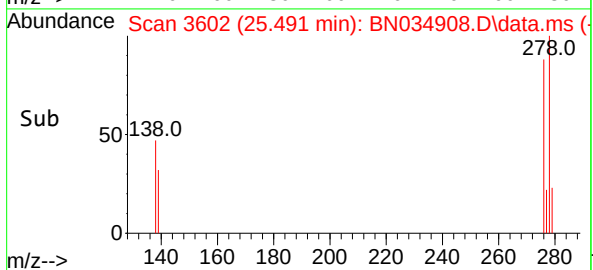
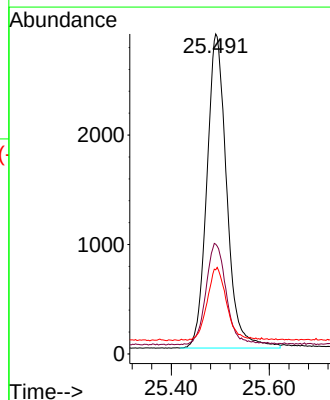
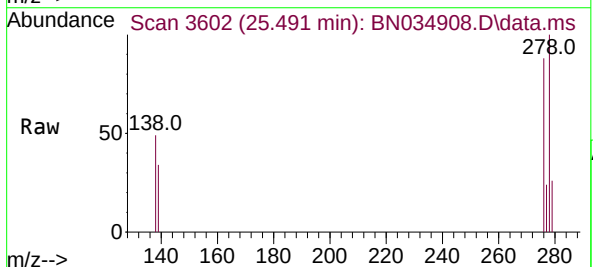
Tgt Ion:278 Resp: 8077

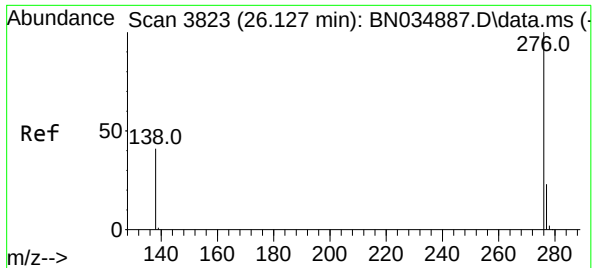
Ion Ratio Lower Upper

278 100

139 34.3 27.2 40.8

279 26.3 21.4 32.0





#41

Benzo(g,h,i)perylene

Concen: 0.337 ng

RT: 26.128 min Scan# 31

Delta R.T. 0.001 min

Lab File: BN034908.D

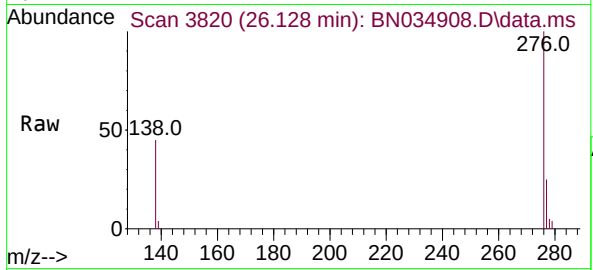
Acq: 08 Nov 2024 14:53

Instrument :

BNA_N

ClientSampleId :

PB164705BS



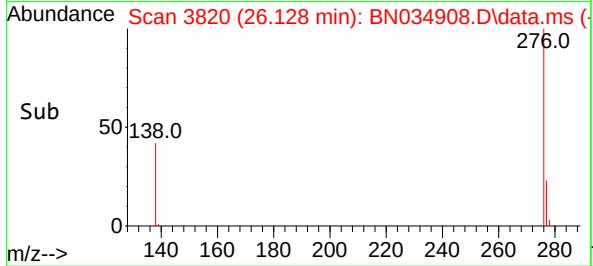
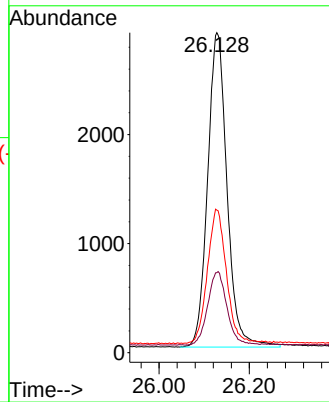
Tgt Ion:276 Resp: 8607

Ion Ratio Lower Upper

276 100

277 25.0 20.2 30.2

138 44.5 33.9 50.9



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164705BSD	SDG No.:	P4710
Lab Sample ID:	PB164705BSD	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
BN034909.D	1	11/06/24 08:45	11/08/24 15:29	PB164705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.28		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	0.33		30 - 150		82%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		95%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6260	7.575				
1146-65-2	Naphthalene-d8	17900	10.34				
15067-26-2	Acenaphthene-d10	7950	14.208				
1517-22-2	Phenanthrene-d10	16000	16.952				
1719-03-5	Chrysene-d12	9020	21.149				
1520-96-3	Perylene-d12	6770	23.315				

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\BN110824\
 Data File : BN034909.D
 Acq On : 08 Nov 2024 15:29
 Operator : RC/JU
 Sample : PB164705BSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164705BSD

Quant Time: Nov 08 16:32:24 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 07 15:02:36 2024
 Response via : Initial Calibration

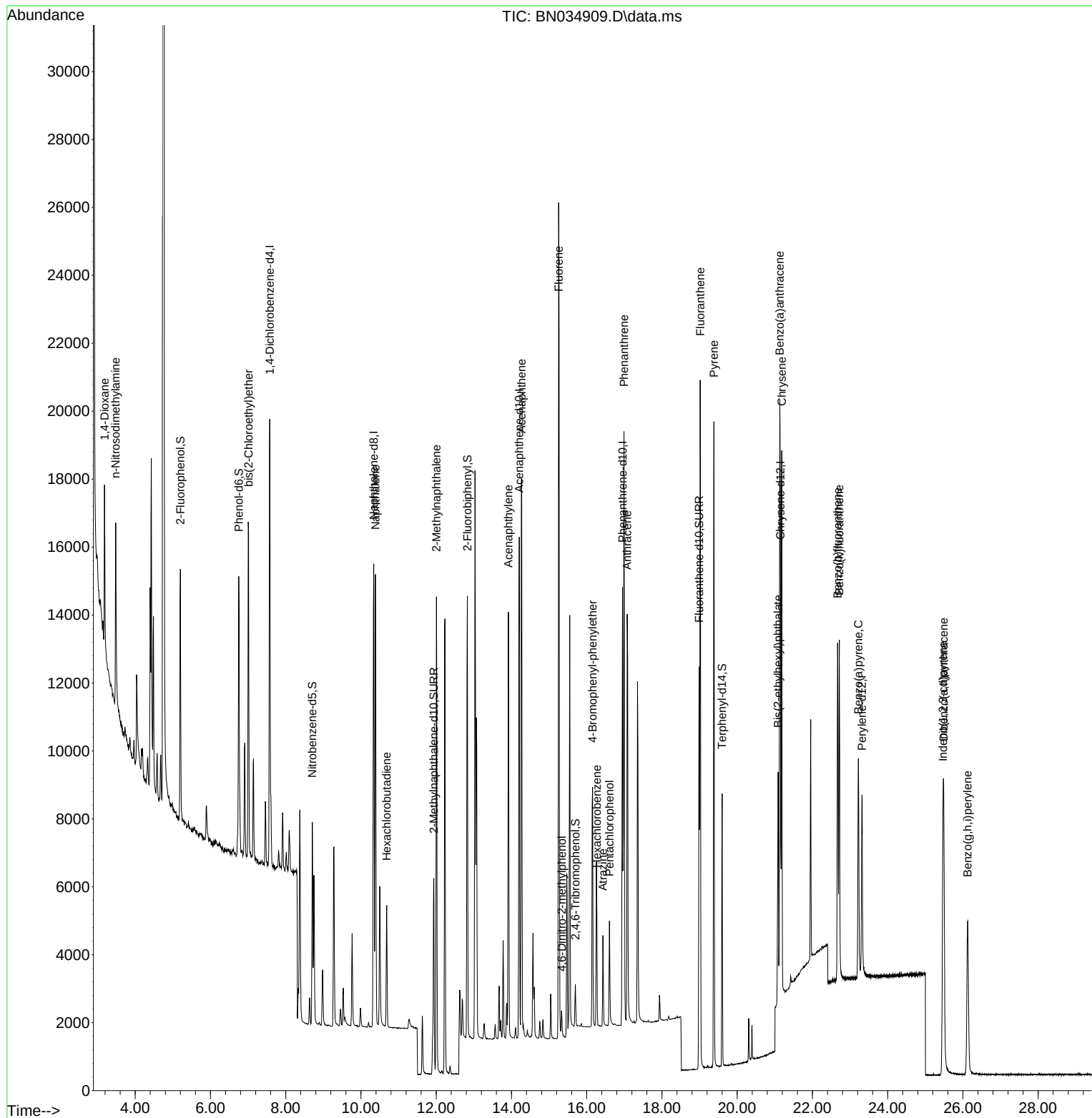
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	6255	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	17867	0.400	ng	0.00
13) Acenaphthene-d10	14.208	164	7947	0.400	ng	0.00
19) Phenanthrene-d10	16.952	188	15963	0.400	ng	# 0.00
29) Chrysene-d12	21.149	240	9019	0.400	ng	0.00
35) Perylene-d12	23.315	264	6770	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.199	112	5431	0.312	ng	0.00
5) Phenol-d6	6.752	99	7335	0.317	ng	0.00
8) Nitrobenzene-d5	8.707	82	4586	0.329	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	9605	0.394	ng	0.00
14) 2,4,6-Tribromophenol	15.698	330	611	0.301	ng	0.00
15) 2-Fluorobiphenyl	12.829	172	11409	0.340	ng	0.00
27) Fluoranthene-d10	18.990	212	11847	0.329	ng	0.00
31) Terphenyl-d14	19.598	244	6403	0.379	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.184	88	2247	0.284	ng	# 51
3) n-Nitrosodimethylamine	3.480	42	3623	0.340	ng	# 99
6) bis(2-Chloroethyl)ether	7.012	93	6846	0.343	ng	99
9) Naphthalene	10.383	128	16732	0.337	ng	99
10) Hexachlorobutadiene	10.682	225	2580	0.326	ng	# 98
12) 2-Methylnaphthalene	12.007	142	9903	0.326	ng	100
16) Acenaphthylene	13.919	152	12955	0.338	ng	100
17) Acenaphthene	14.272	154	8662	0.327	ng	100
18) Fluorene	15.255	166	10701	0.324	ng	100
20) 4,6-Dinitro-2-methylph...	15.341	198	457	0.330	ng	# 56
21) 4-Bromophenyl-phenylether	16.157	248	2716	0.319	ng	# 92
22) Hexachlorobenzene	16.269	284	3428	0.335	ng	99
23) Atrazine	16.431	200	1938	0.314	ng	95
24) Pentachlorophenol	16.604	266	1379	0.524	ng	96
25) Phenanthrene	16.989	178	17079	0.349	ng	99
26) Anthracene	17.076	178	14866	0.352	ng	100
28) Fluoranthene	19.018	202	16670	0.324	ng	99
30) Pyrene	19.380	202	16547	0.362	ng	100
32) Benzo(a)anthracene	21.131	228	12354	0.351	ng	100
33) Chrysene	21.185	228	13618	0.366	ng	98
34) Bis(2-ethylhexyl)phtha...	21.086	149	5786	0.287	ng	99
36) Indeno(1,2,3-cd)pyrene	25.470	276	10193	0.338	ng	98
37) Benzo(b)fluoranthene	22.669	252	11423	0.384	ng	98
38) Benzo(k)fluoranthene	22.713	252	11176	0.361	ng	99
39) Benzo(a)pyrene	23.219	252	8976	0.380	ng	99
40) Dibenzo(a,h)anthracene	25.488	278	7869	0.337	ng	98
41) Benzo(g,h,i)perylene	26.125	276	8331	0.336	ng	98

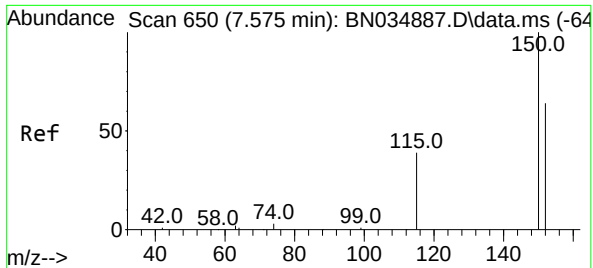
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
Data File : BN034909.D
Acq On : 08 Nov 2024 15:29
Operator : RC/JU
Sample : PB164705BSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164705BSD

Quant Time: Nov 08 16:32:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 2024
Response via : Initial Calibration

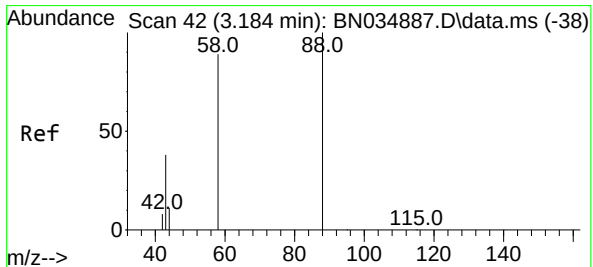
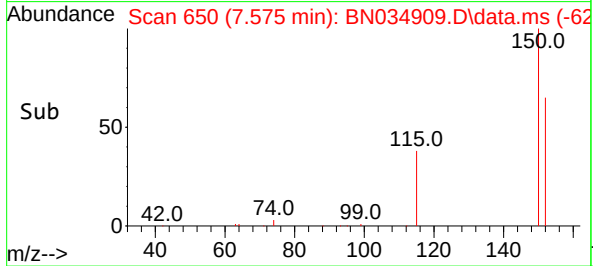
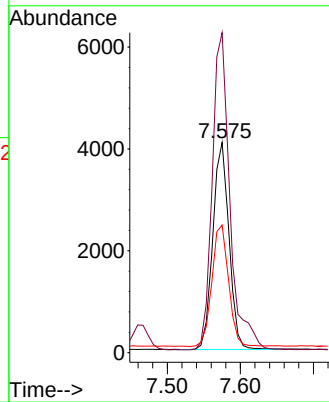
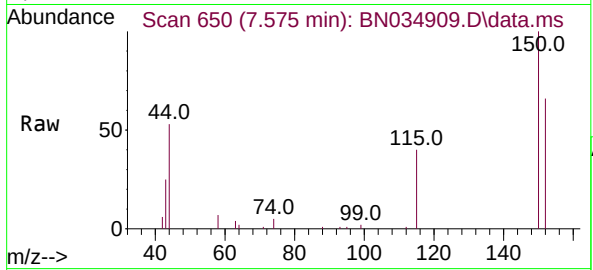




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

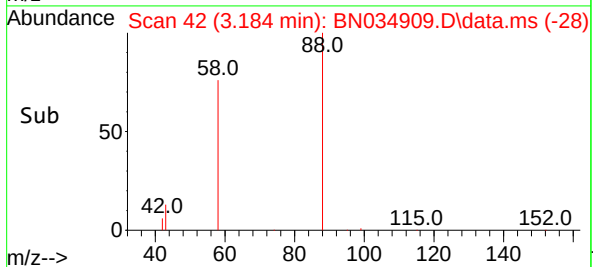
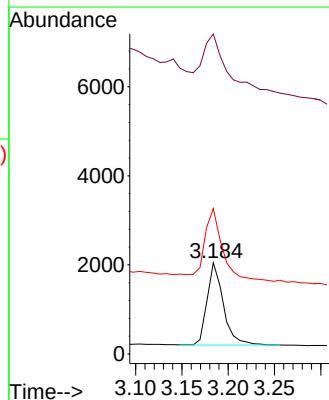
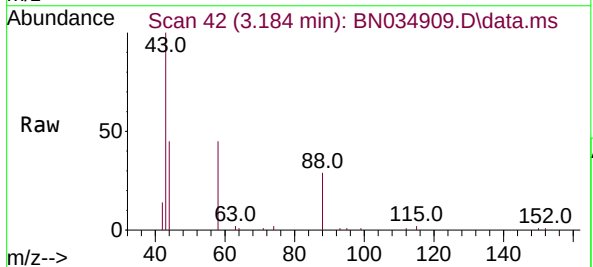
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

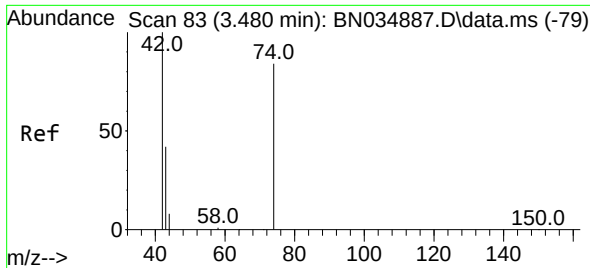
Tgt Ion:152 Resp: 6255
Ion Ratio Lower Upper
152 100
150 152.3 124.4 186.6
115 60.8 50.5 75.7



#2
1,4-Dioxane
Concen: 0.284 ng
RT: 3.184 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion: 88 Resp: 2247
Ion Ratio Lower Upper
88 100
43 106.9 28.2 42.2#
58 99.5 67.1 100.7

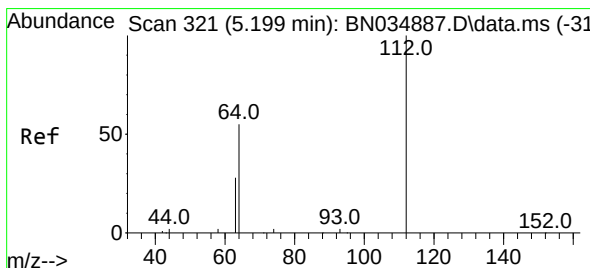
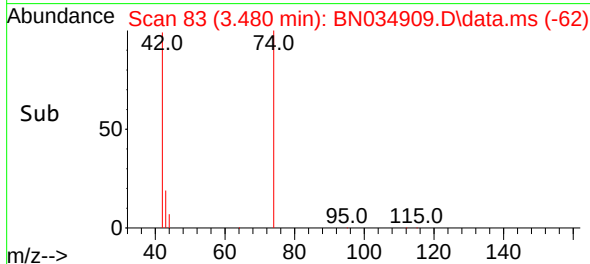
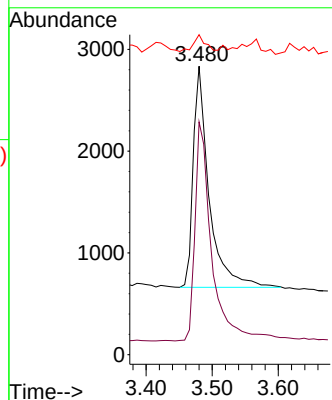
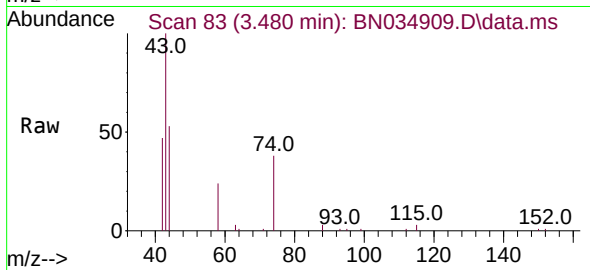




#3
n-Nitrosodimethylamine
Concen: 0.340 ng
RT: 3.480 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

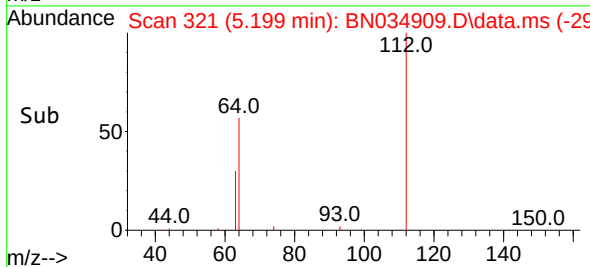
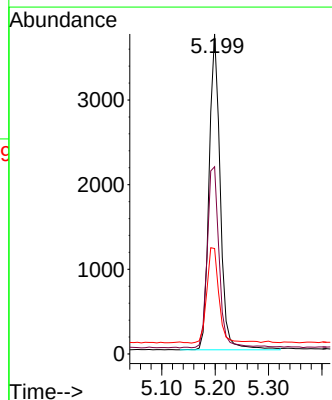
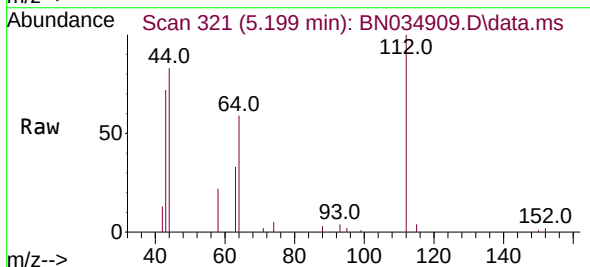
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

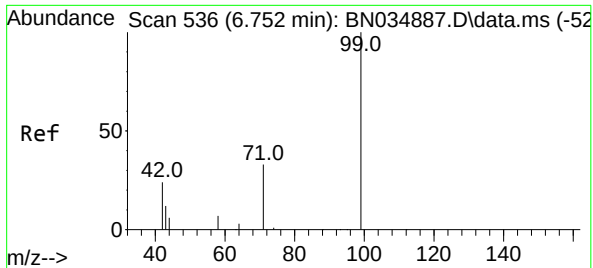
Tgt Ion: 42 Resp: 3623
Ion Ratio Lower Upper
42 100
74 104.3 83.4 125.2
44 7.2 8.6 12.8#



#4
2-Fluorophenol
Concen: 0.312 ng
RT: 5.199 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion: 112 Resp: 5431
Ion Ratio Lower Upper
112 100
64 61.1 49.6 74.4
63 32.6 26.3 39.5

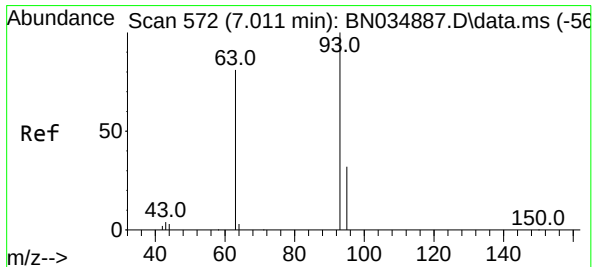
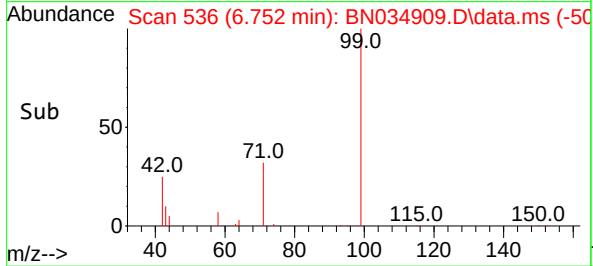
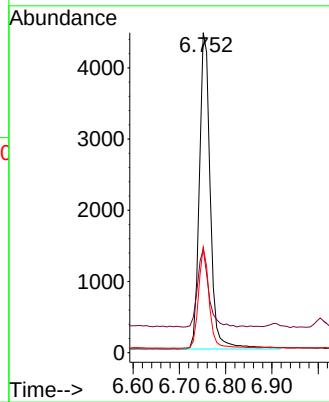
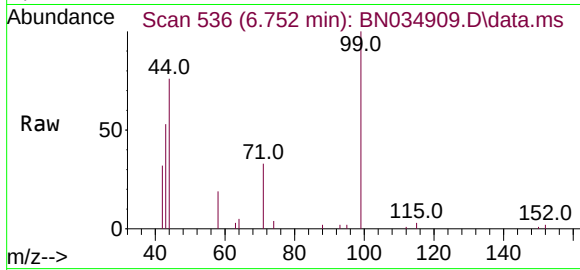




#5
Phenol-d6
Concen: 0.317 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

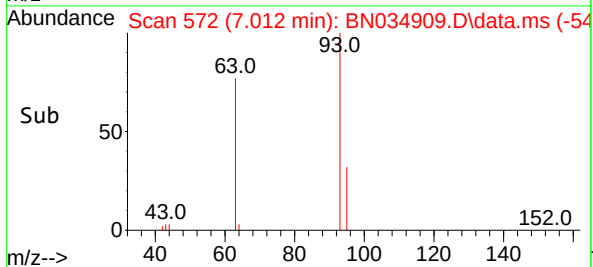
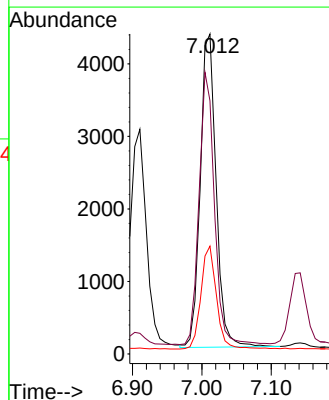
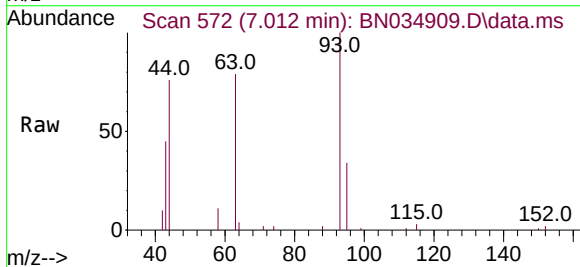
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

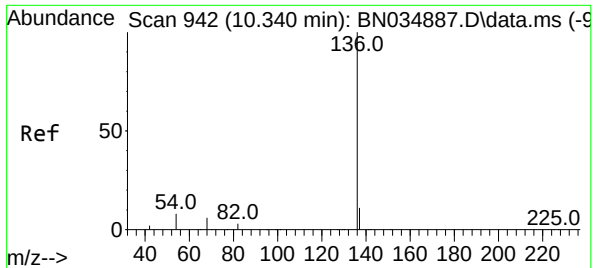
Tgt Ion:	99	Resp:	7335
Ion	Ratio	Lower	Upper
99	100		
42	24.9	20.2	30.2
71	31.0	25.4	38.0



#6
bis(2-Chloroethyl)ether
Concen: 0.343 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion:	93	Resp:	6846
Ion	Ratio	Lower	Upper
93	100		
63	83.9	67.5	101.3
95	32.4	25.7	38.5

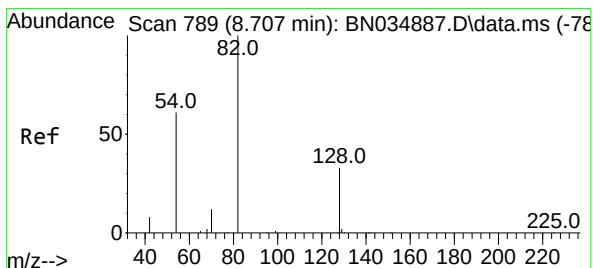
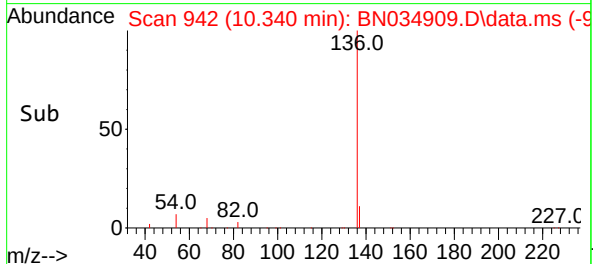
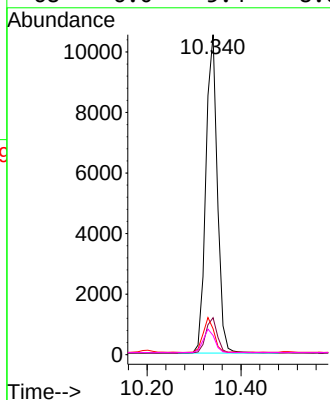
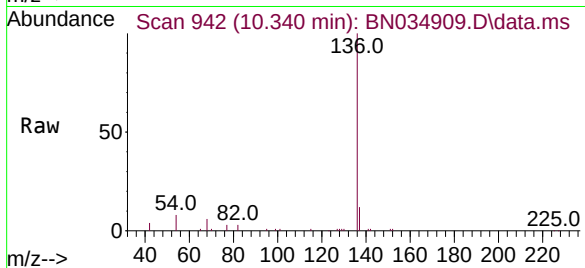




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

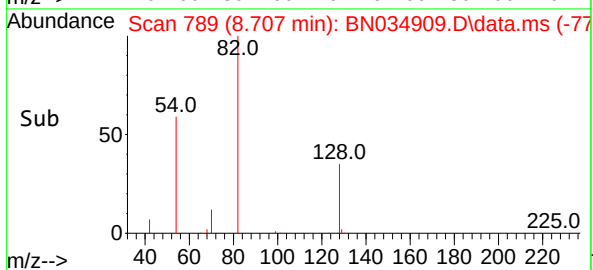
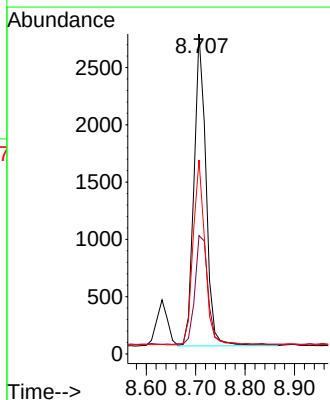
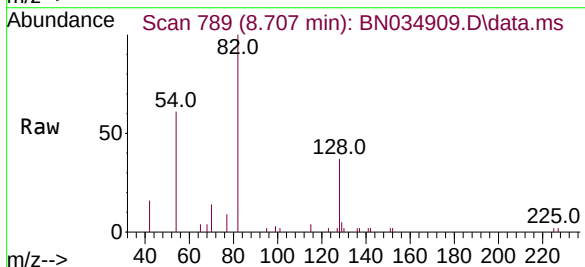
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

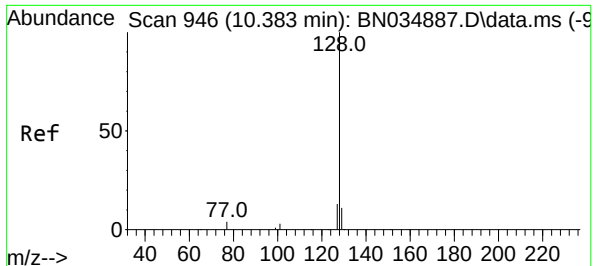
Tgt Ion:	136	Resp:	17867
Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.9	13.3
54	8.1	6.9	10.3
68	6.0	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.329 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion:	82	Resp:	4586
Ion	Ratio	Lower	Upper
82	100		
128	37.0	28.1	42.1
54	60.6	49.8	74.6

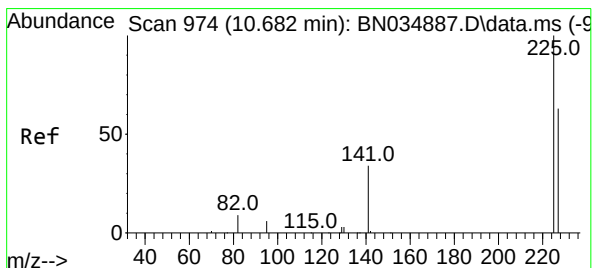
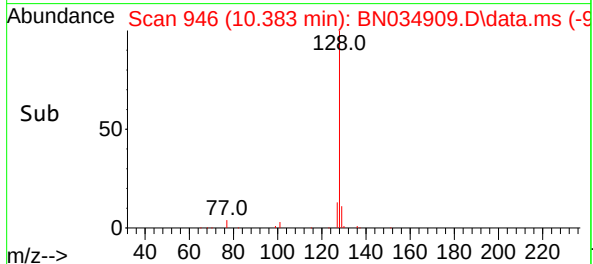
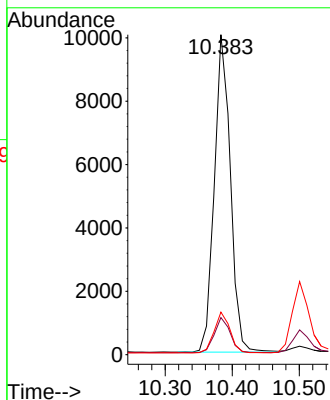
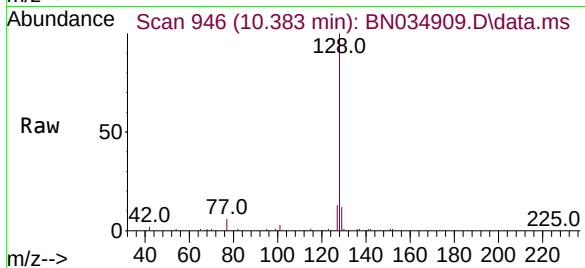




#9
Naphthalene
Concen: 0.337 ng
RT: 10.383 min Scan# 946
Delta R.T. 0.000 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

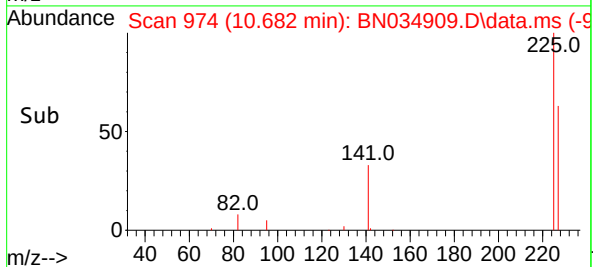
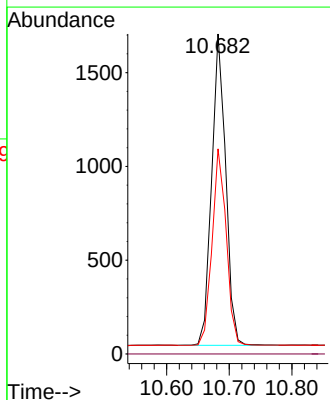
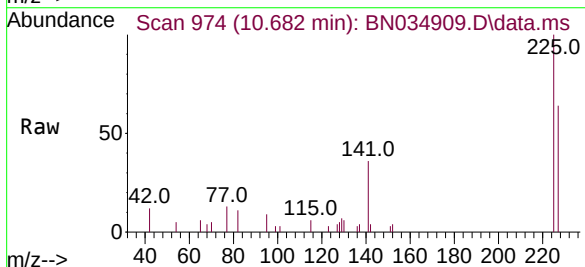
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

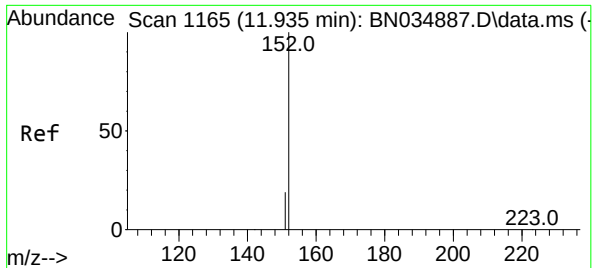
Tgt Ion:128 Resp: 16732
Ion Ratio Lower Upper
128 100
129 11.6 9.0 13.4
127 13.3 10.8 16.2



#10
Hexachlorobutadiene
Concen: 0.326 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion:225 Resp: 2580
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 52.0 78.0

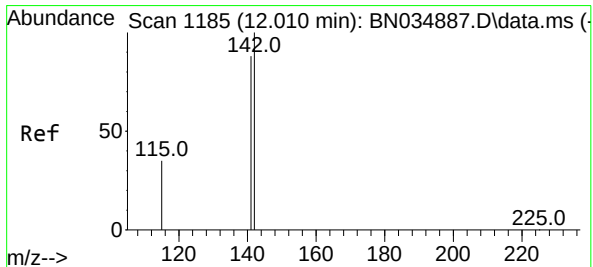
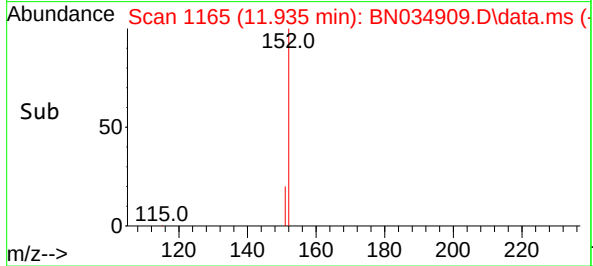
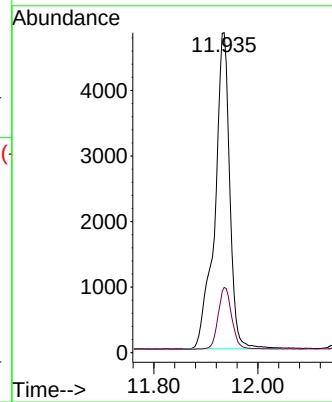
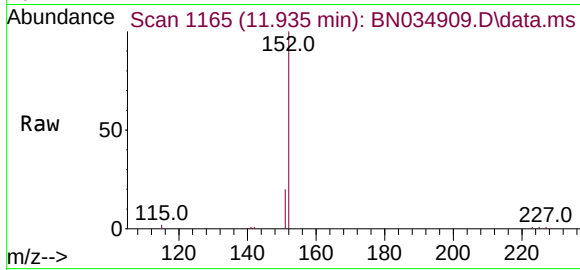




#11
2-Methylnaphthalene-d10
Concen: 0.394 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

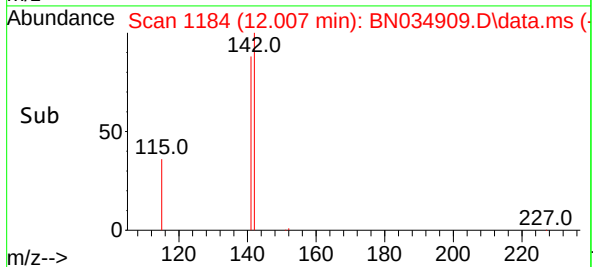
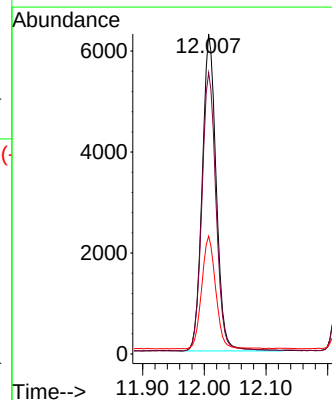
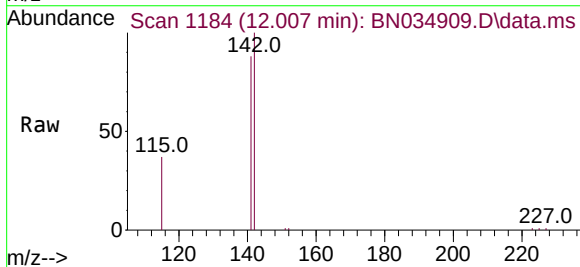
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

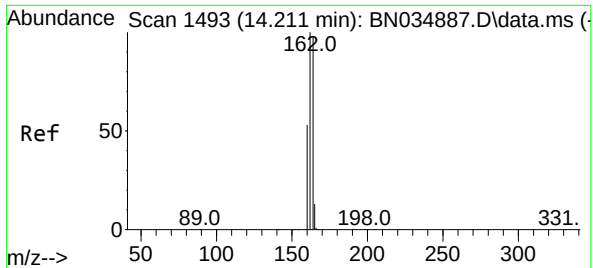
Tgt Ion:152 Resp: 9605
Ion Ratio Lower Upper
152 100
151 17.8 17.1 25.7



#12
2-Methylnaphthalene
Concen: 0.326 ng
RT: 12.007 min Scan# 1184
Delta R.T. -0.004 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion:142 Resp: 9903
Ion Ratio Lower Upper
142 100
141 87.9 70.5 105.7
115 36.8 29.4 44.2

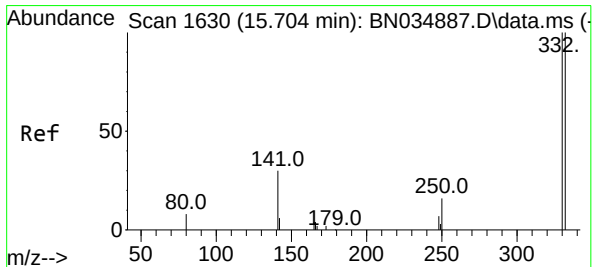
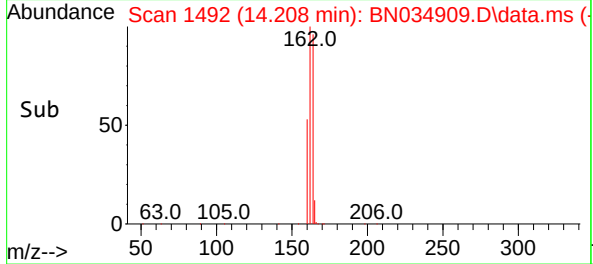
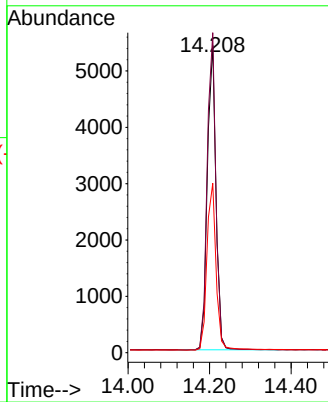
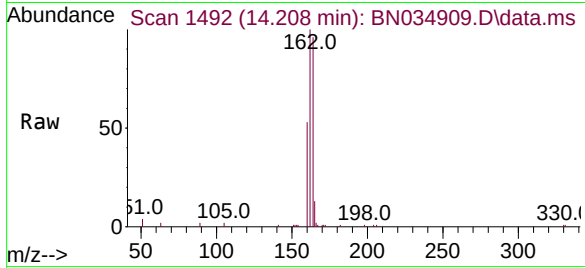




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.208 min Scan# 1492
Delta R.T. -0.003 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

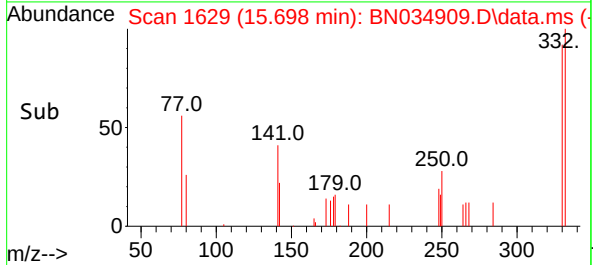
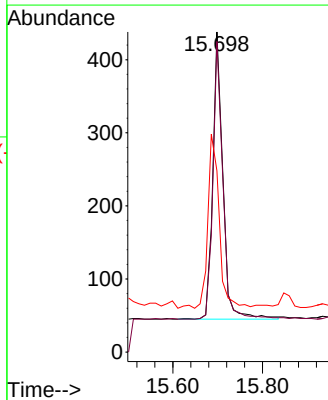
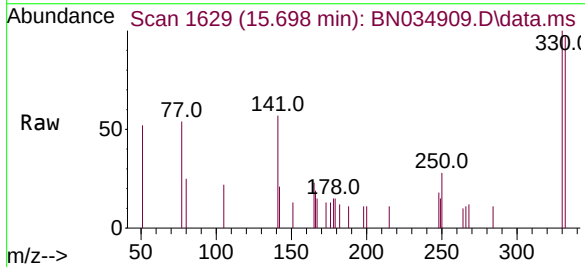
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

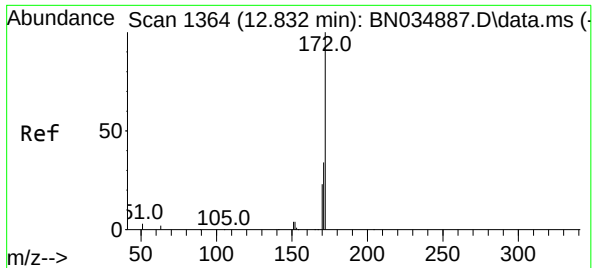
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.1	81.9	122.9
160	55.1	43.5	65.3



#14
2,4,6-Tribromophenol
Concen: 0.301 ng
RT: 15.698 min Scan# 1629
Delta R.T. -0.006 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.3	77.1	115.7
141	65.1	54.1	81.1





#15

2-Fluorobiphenyl

Concen: 0.340 ng

RT: 12.829 min Scan# 11

Delta R.T. -0.004 min

Lab File: BN034909.D

Acq: 08 Nov 2024 15:29

Instrument :

BNA_N

ClientSampleId :

PB164705BSD

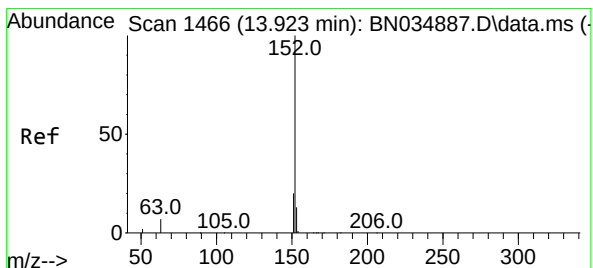
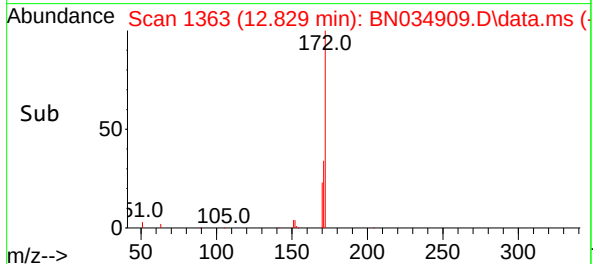
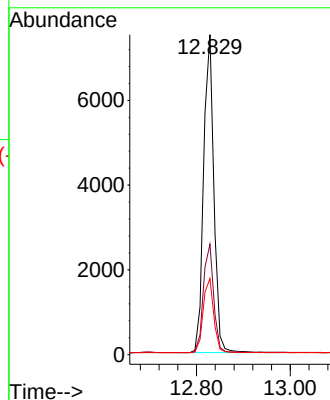
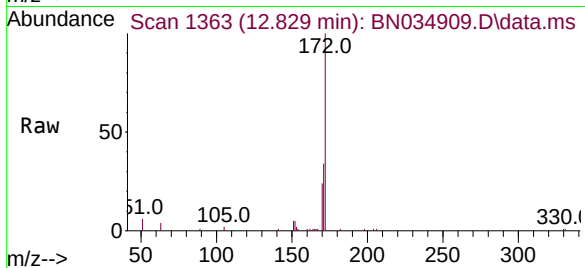
Tgt Ion:172 Resp: 11409

Ion Ratio Lower Upper

172 100

171 34.5 27.9 41.9

170 23.8 19.0 28.4



#16

Acenaphthylene

Concen: 0.338 ng

RT: 13.919 min Scan# 1465

Delta R.T. -0.004 min

Lab File: BN034909.D

Acq: 08 Nov 2024 15:29

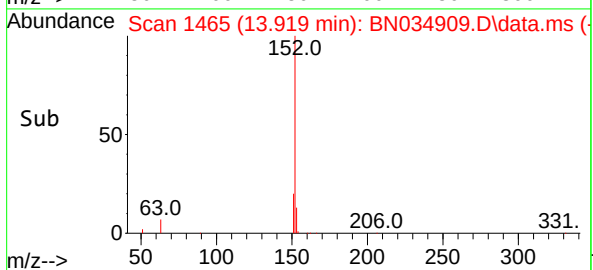
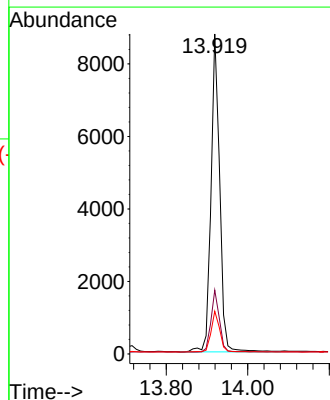
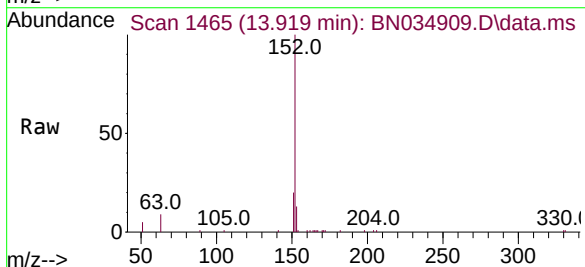
Tgt Ion:152 Resp: 12955

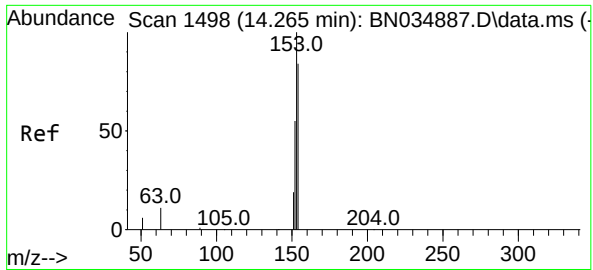
Ion Ratio Lower Upper

152 100

151 19.0 15.2 22.8

153 13.2 10.4 15.6

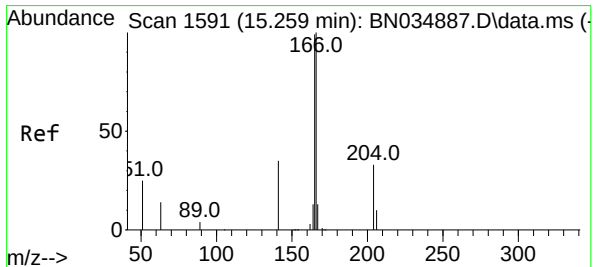
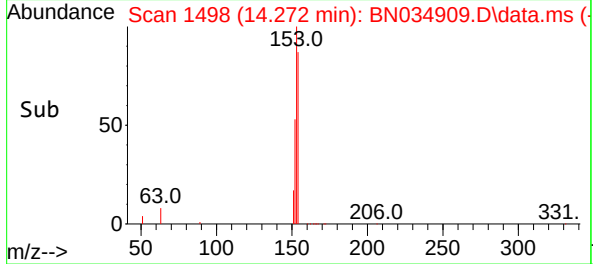
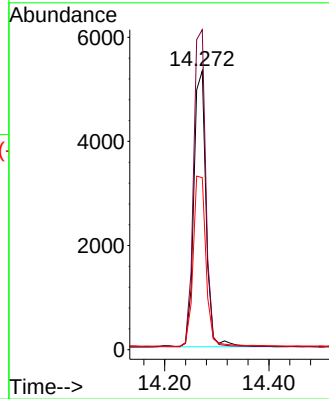
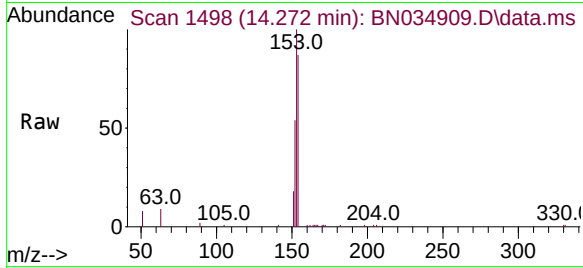




#17
Acenaphthene
Concen: 0.327 ng
RT: 14.272 min Scan# 1498
Delta R.T. 0.007 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

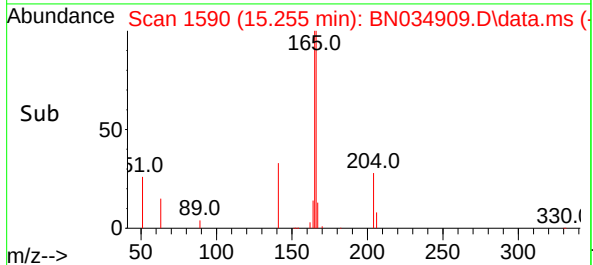
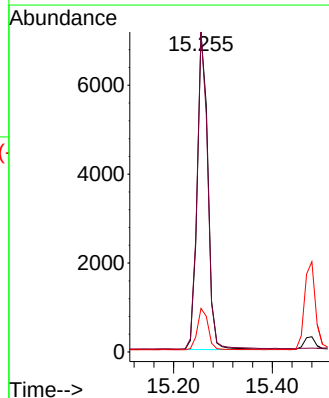
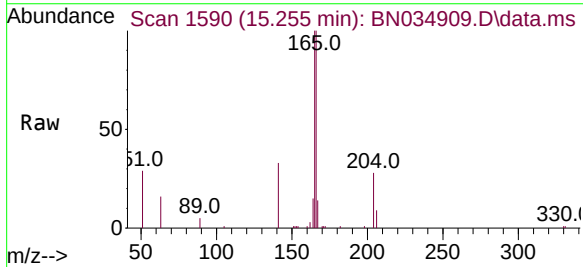
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

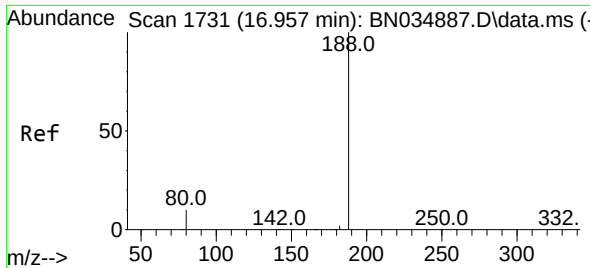
Tgt Ion:154 Resp: 8662
Ion Ratio Lower Upper
154 100
153 115.3 92.2 138.2
152 64.5 51.1 76.7



#18
Fluorene
Concen: 0.324 ng
RT: 15.255 min Scan# 1590
Delta R.T. -0.004 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion:166 Resp: 10701
Ion Ratio Lower Upper
166 100
165 99.4 79.5 119.3
167 13.0 10.6 16.0

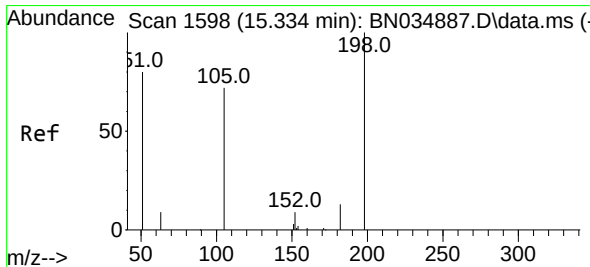
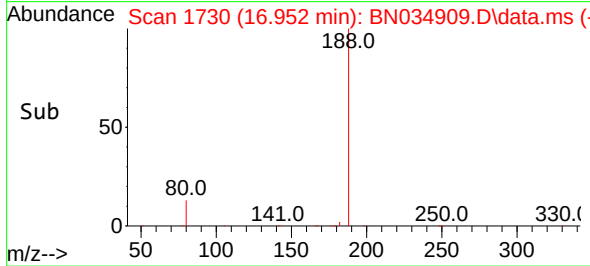
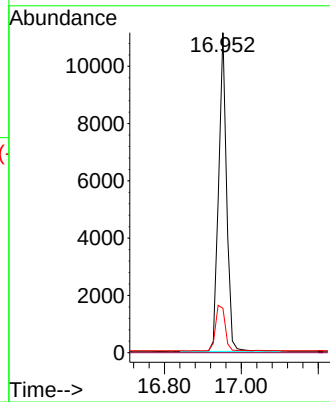
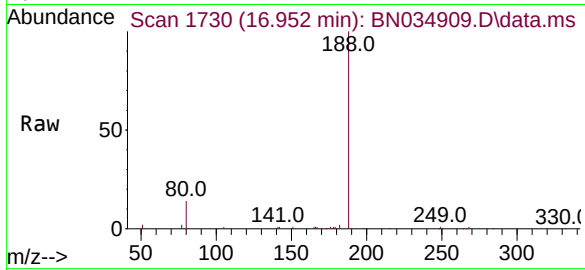




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.952 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

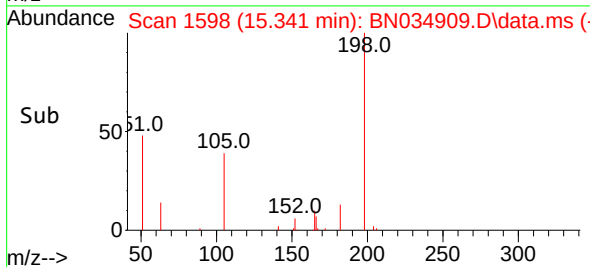
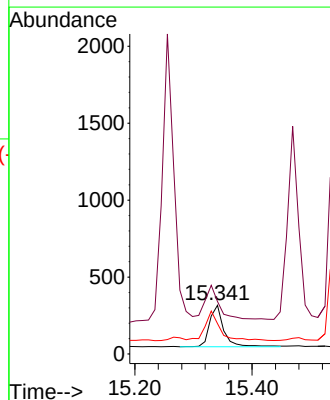
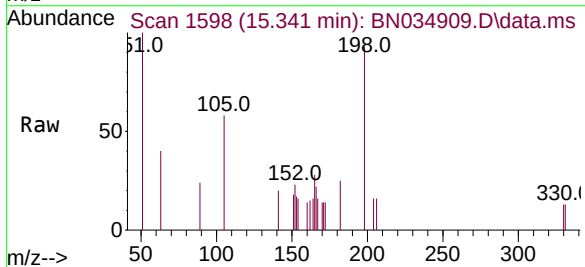
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

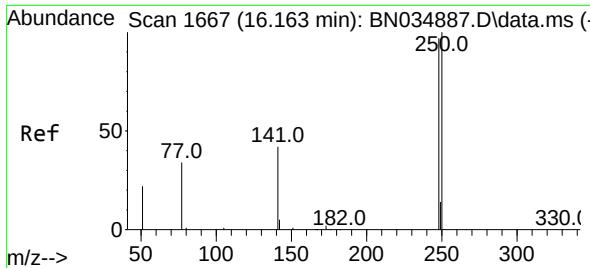
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.9	8.6	12.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.330 ng
RT: 15.341 min Scan# 1598
Delta R.T. 0.007 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion	Ratio	Lower	Upper
198	100		
51	107.6	141.8	212.8#
105	62.5	75.6	113.4#

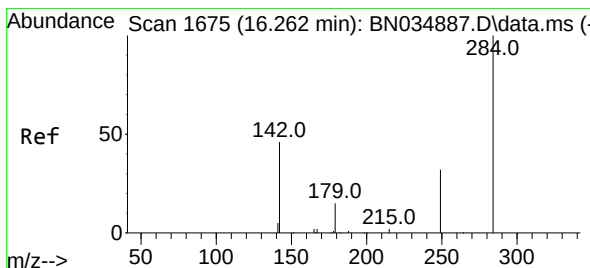
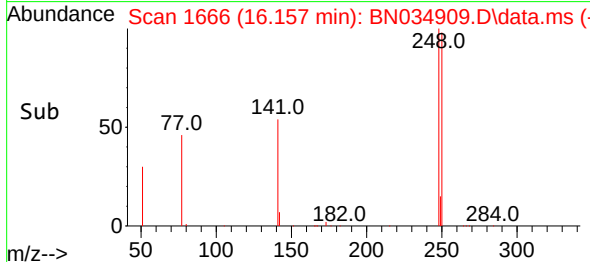
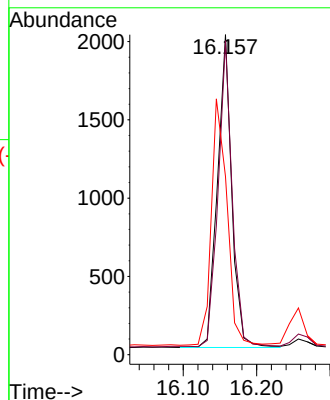
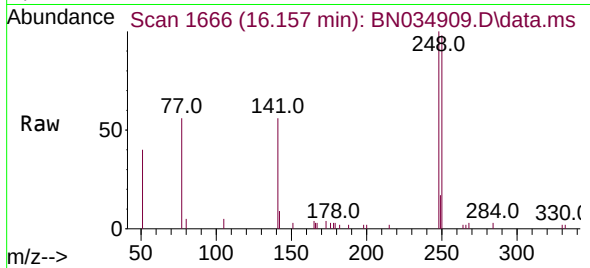




#21
4-Bromophenyl-phenylether
Concen: 0.319 ng
RT: 16.157 min Scan# 1666
Delta R.T. -0.005 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

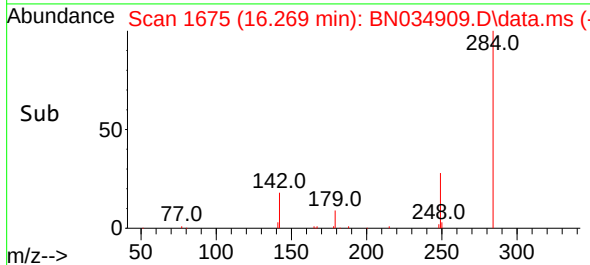
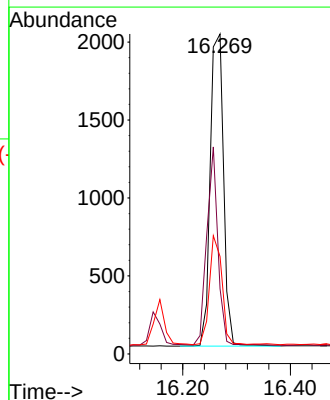
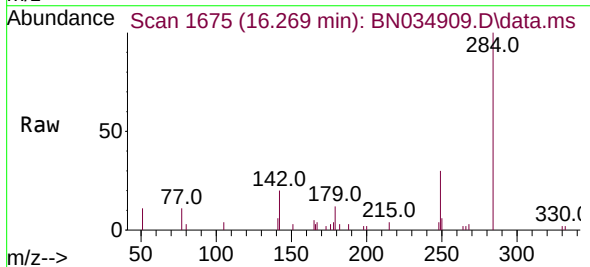
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

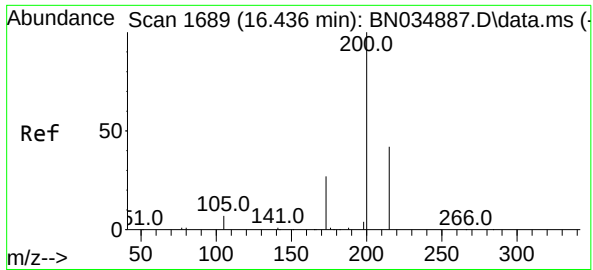
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.1	82.2	123.4
141	55.7	36.2	54.2



#22
Hexachlorobenzene
Concen: 0.335 ng
RT: 16.269 min Scan# 1675
Delta R.T. 0.007 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion	Ratio	Lower	Upper
284	100		
142	53.3	43.4	65.2
249	32.8	25.8	38.6

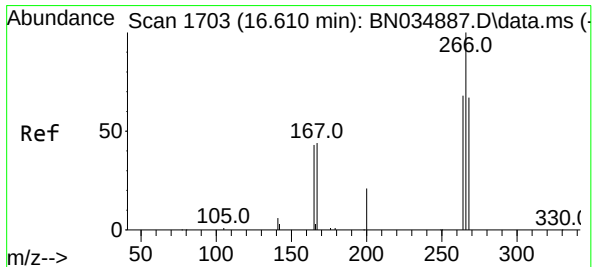
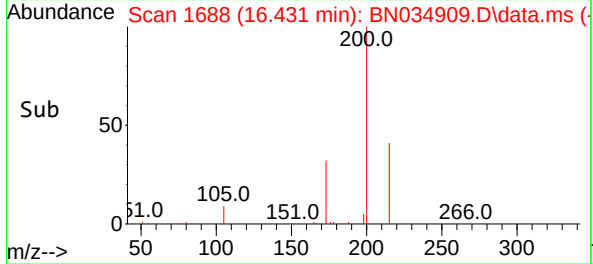
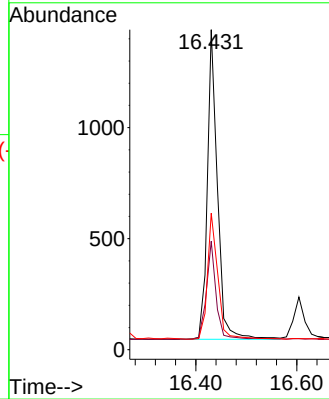
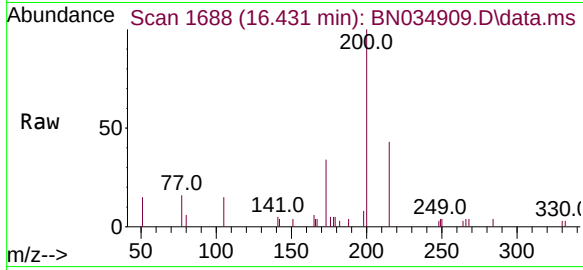




#23
Atrazine
Concen: 0.314 ng
RT: 16.431 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

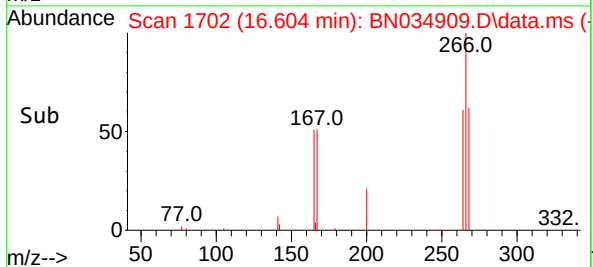
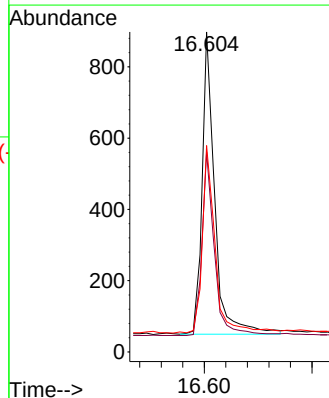
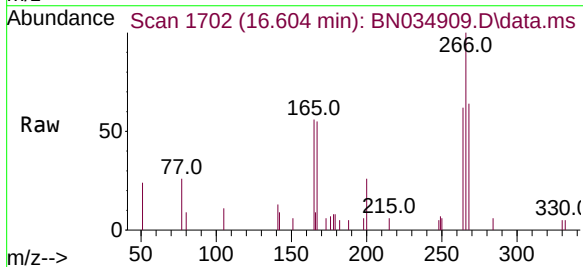
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

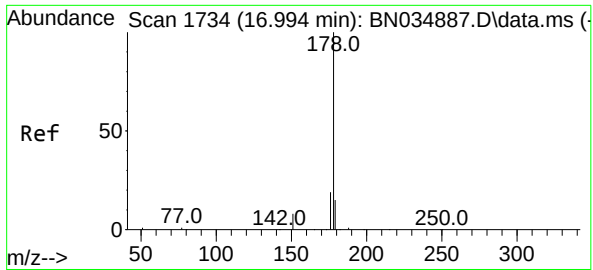
Tgt Ion	Ratio	Lower	Upper
200	100		
173	33.9	23.4	35.2
215	42.7	35.4	53.0



#24
Pentachlorophenol
Concen: 0.524 ng
RT: 16.604 min Scan# 1702
Delta R.T. -0.006 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion	Ratio	Lower	Upper
266	100		
264	59.9	51.3	76.9
268	63.5	53.0	79.6

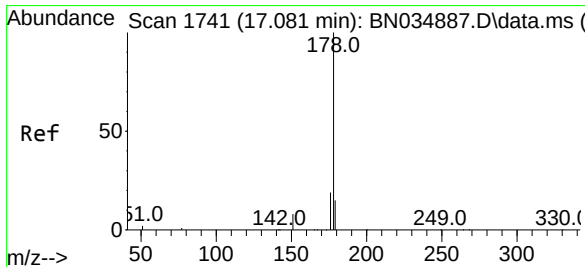
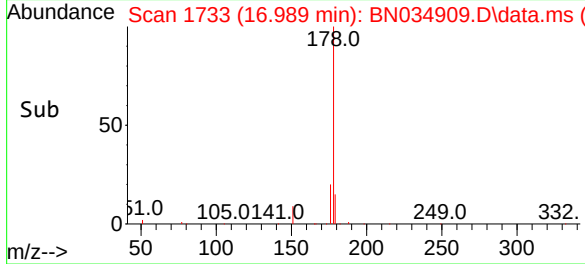
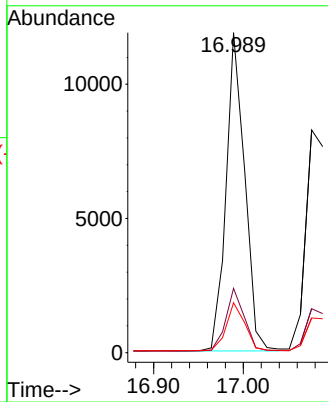
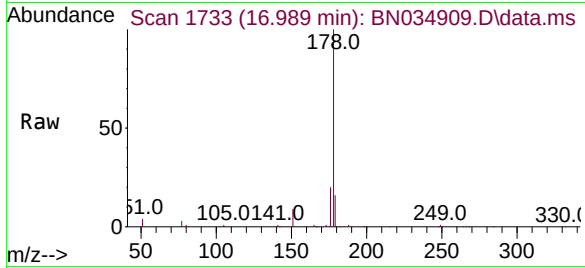




#25
Phenanthrene
Concen: 0.349 ng
RT: 16.989 min Scan# 1733
Delta R.T. -0.005 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

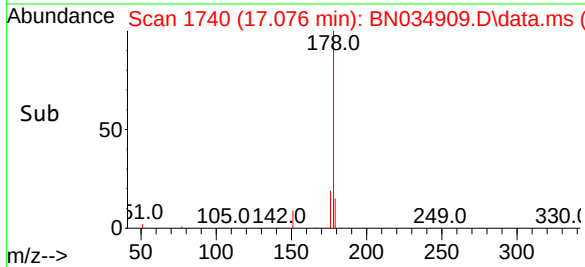
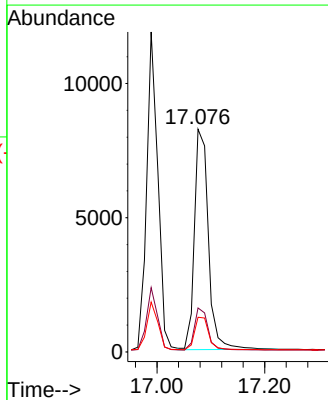
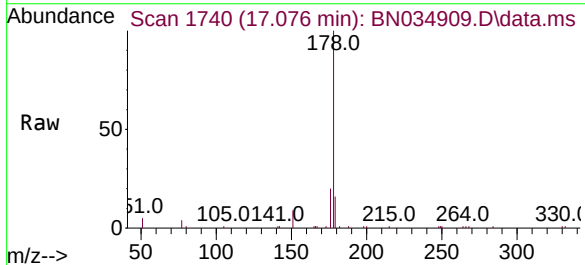
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

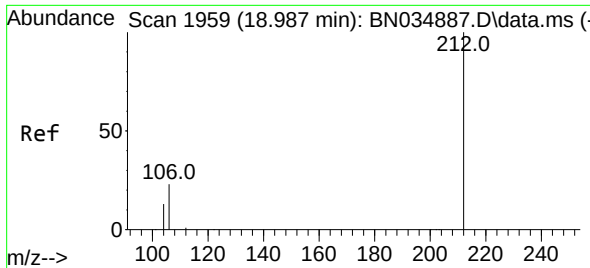
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.5	23.3
179	15.4	12.2	18.2



#26
Anthracene
Concen: 0.352 ng
RT: 17.076 min Scan# 1740
Delta R.T. -0.005 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.1	12.1	18.1

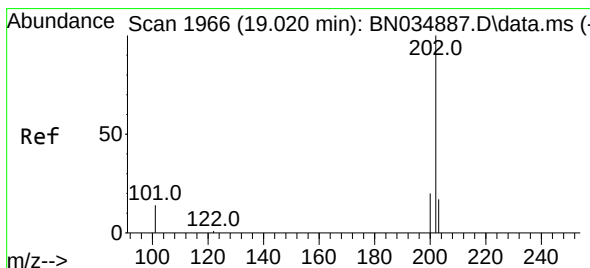
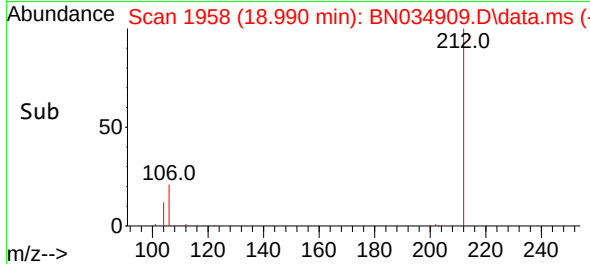
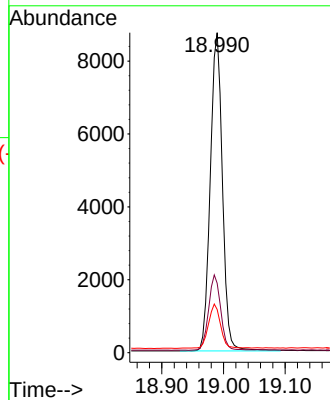
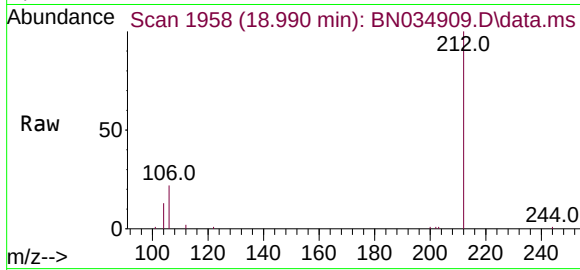




#27
Fluoranthene-d10
Concen: 0.329 ng
RT: 18.990 min Scan# 1958
Delta R.T. 0.002 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

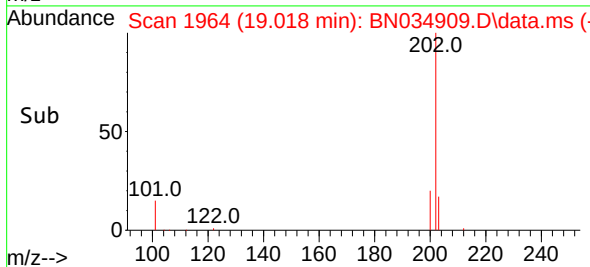
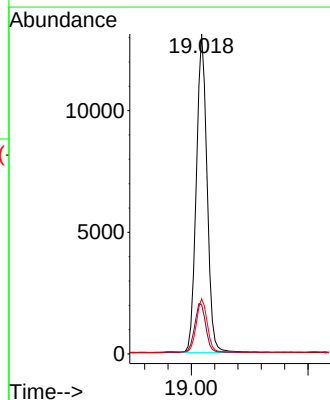
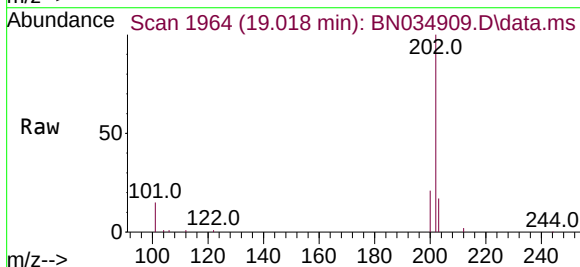
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

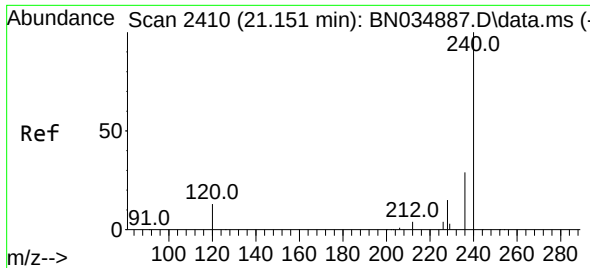
Tgt Ion	Ratio	Lower	Upper
212	100		
106	23.6	18.2	27.4
104	14.0	10.6	15.8



#28
Fluoranthene
Concen: 0.324 ng
RT: 19.018 min Scan# 1964
Delta R.T. -0.002 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion	Ratio	Lower	Upper
202	100		
101	16.4	12.7	19.1
203	16.9	13.7	20.5

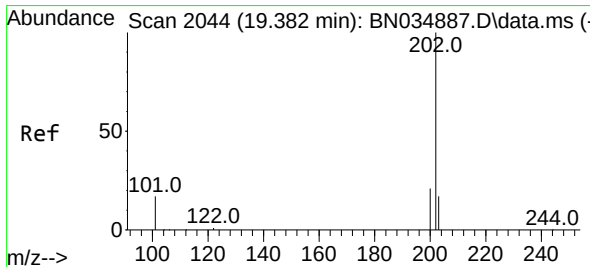
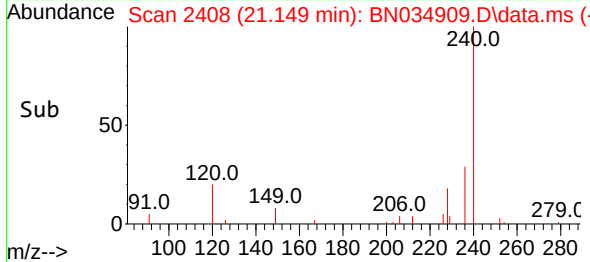
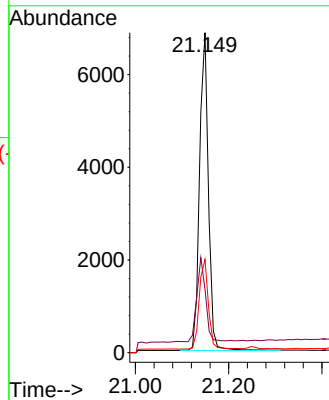
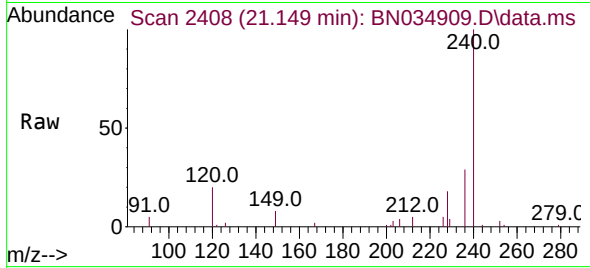




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.149 min Scan# 2410
Delta R.T. -0.002 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

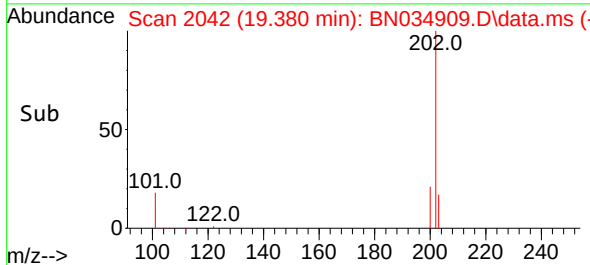
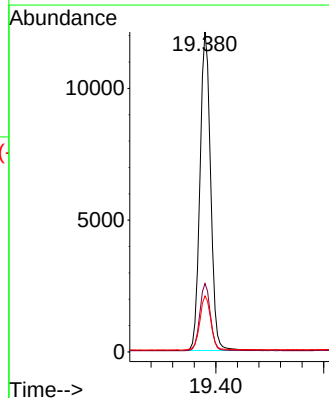
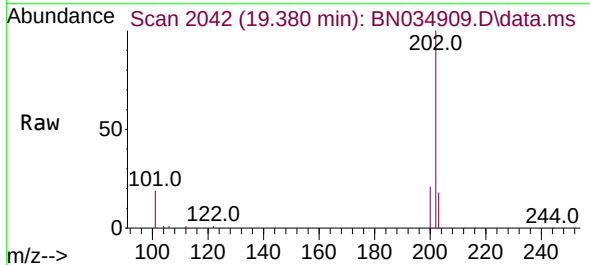
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

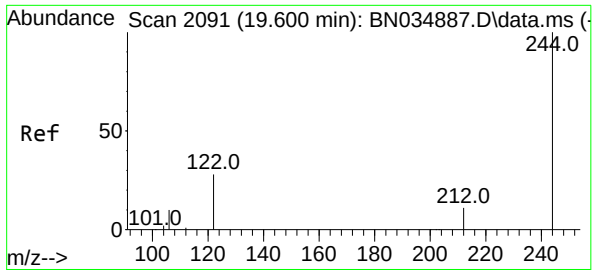
Tgt Ion	Ratio	Lower	Upper
240	100		
120	19.8	13.8	20.8
236	29.1	23.8	35.6



#30
Pyrene
Concen: 0.362 ng
RT: 19.380 min Scan# 2042
Delta R.T. -0.002 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.6	14.1	21.1

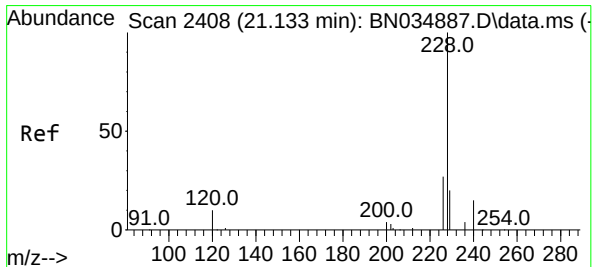
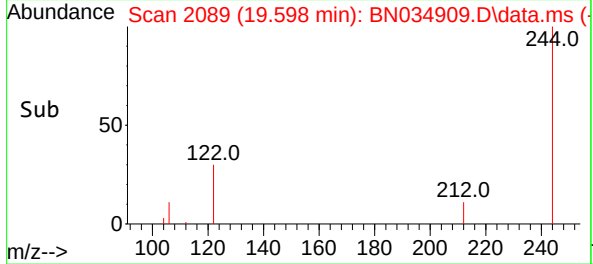
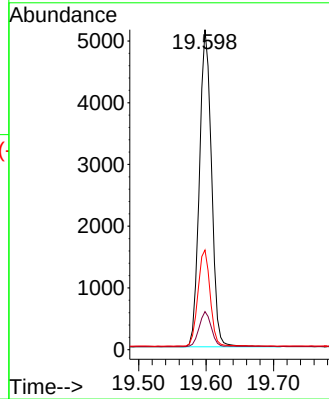
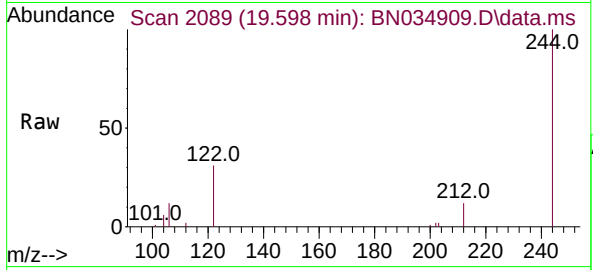




#31
Terphenyl-d14
Concen: 0.379 ng
RT: 19.598 min Scan# 2091
Delta R.T. -0.002 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

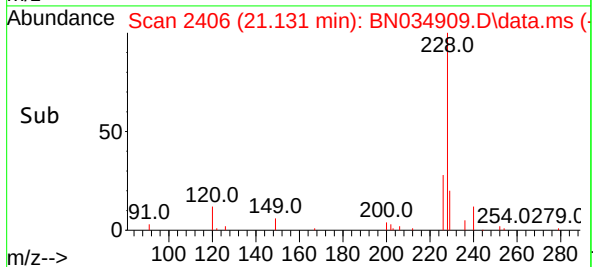
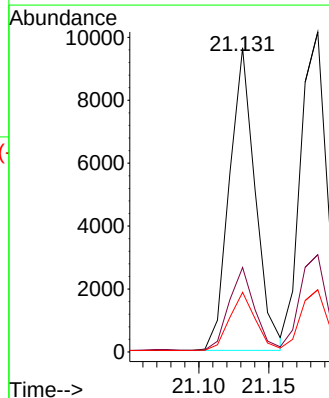
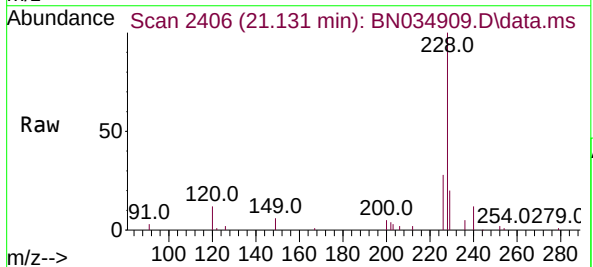
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

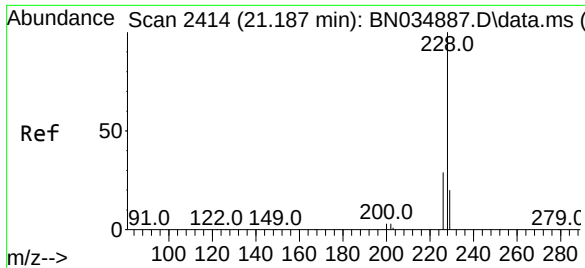
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.9	9.4	14.0
122	31.2	23.0	34.4



#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 21.131 min Scan# 2406
Delta R.T. -0.002 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.2	33.2
229	19.6	16.0	24.0





#33

Chrysene

Concen: 0.366 ng

RT: 21.185 min Scan# 2414

Delta R.T. -0.002 min

Lab File: BN034909.D

Acq: 08 Nov 2024 15:29

Instrument :

BNA_N

ClientSampleId :

PB164705BSD

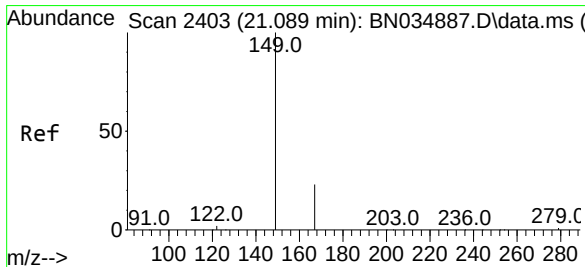
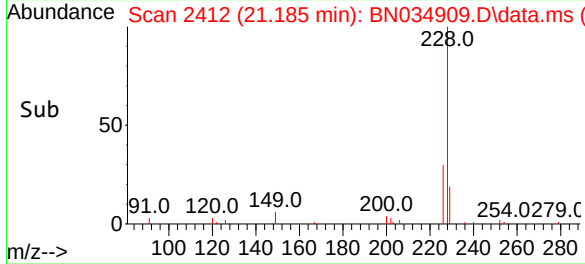
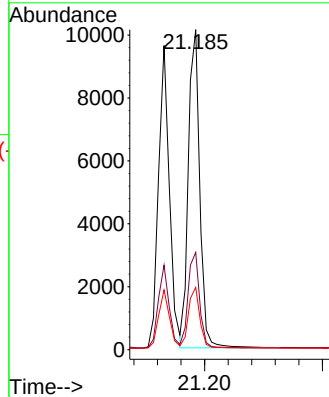
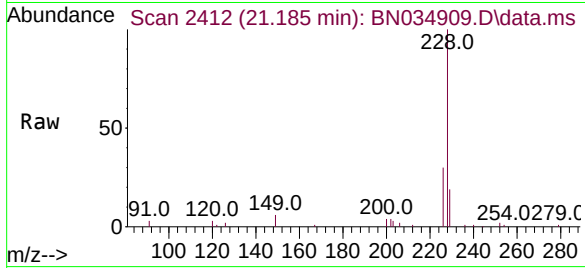
Tgt Ion:228 Resp: 13618

Ion Ratio Lower Upper

228 100

226 30.4 23.7 35.5

229 19.4 16.3 24.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.287 ng

RT: 21.086 min Scan# 2401

Delta R.T. -0.003 min

Lab File: BN034909.D

Acq: 08 Nov 2024 15:29

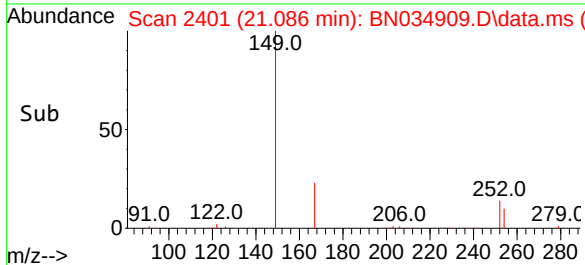
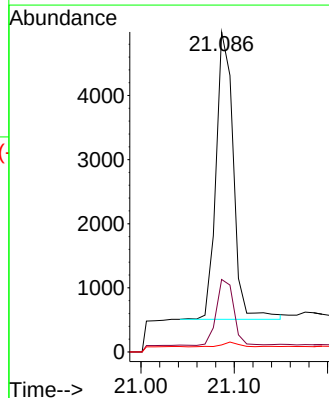
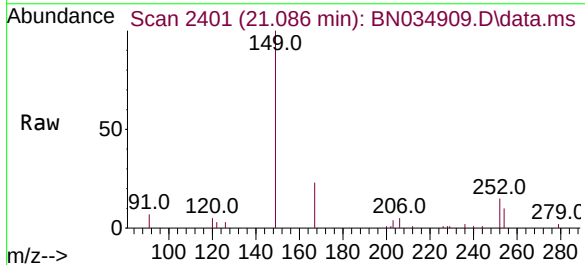
Tgt Ion:149 Resp: 5786

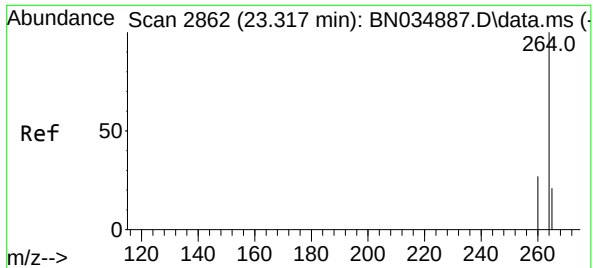
Ion Ratio Lower Upper

149 100

167 23.2 18.1 27.1

279 1.5 1.2 1.8

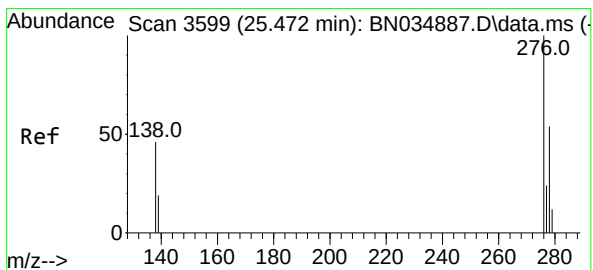
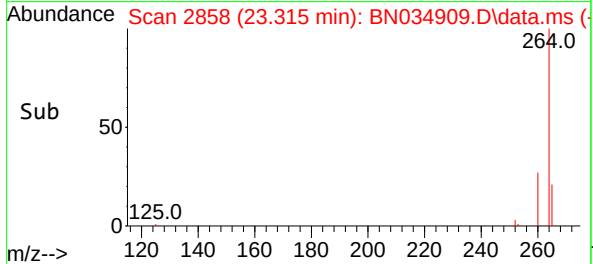
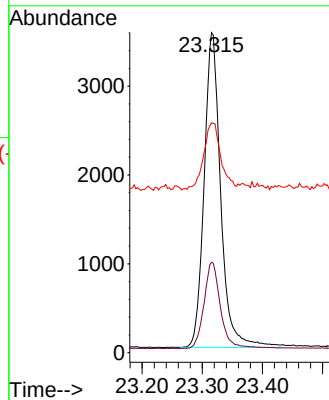
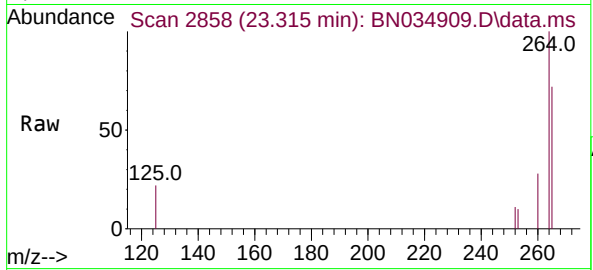




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.315 min Scan# 21
Delta R.T. -0.002 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

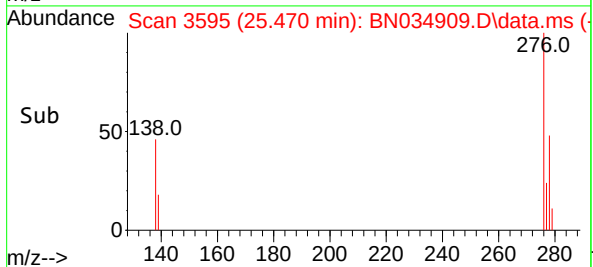
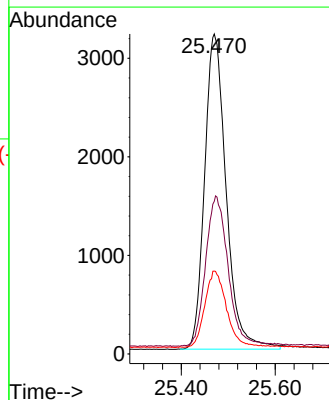
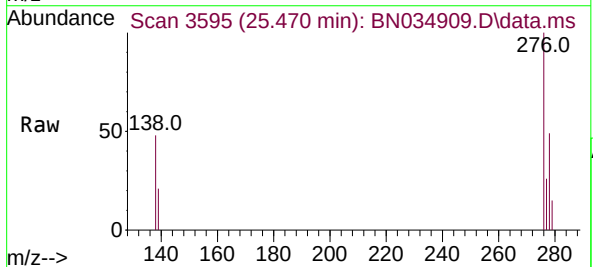
Instrument :
BNA_N
ClientSampleId :
PB164705BSD

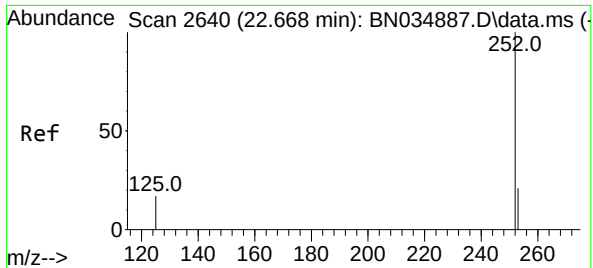
Tgt Ion:264 Resp: 6770
Ion Ratio Lower Upper
264 100
260 28.3 22.2 33.2
265 71.8 60.9 91.3



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.338 ng
RT: 25.470 min Scan# 3595
Delta R.T. -0.002 min
Lab File: BN034909.D
Acq: 08 Nov 2024 15:29

Tgt Ion:276 Resp: 10193
Ion Ratio Lower Upper
276 100
138 49.8 38.4 57.6
277 24.2 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.384 ng

RT: 22.669 min Scan# 2637

Delta R.T. 0.001 min

Lab File: BN034909.D

Acq: 08 Nov 2024 15:29

Instrument :

BNA_N

ClientSampleId :

PB164705BSD

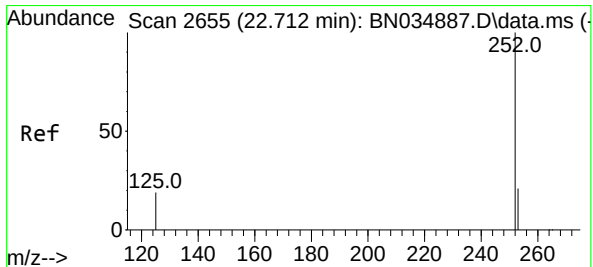
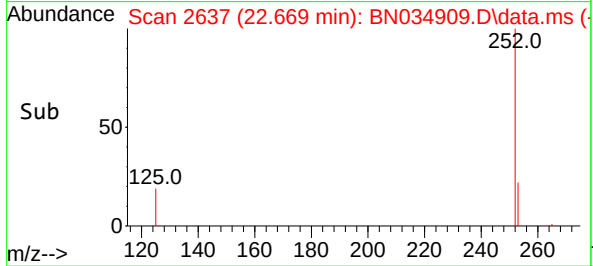
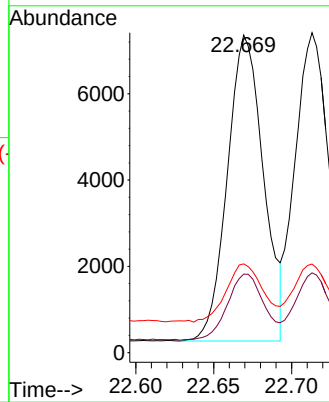
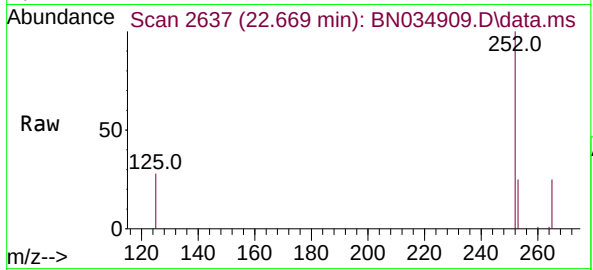
Tgt Ion:252 Resp: 11423

Ion Ratio Lower Upper

252 100

253 24.7 19.4 29.2

125 27.9 21.4 32.2



#38

Benzo(k)fluoranthene

Concen: 0.361 ng

RT: 22.713 min Scan# 2652

Delta R.T. 0.001 min

Lab File: BN034909.D

Acq: 08 Nov 2024 15:29

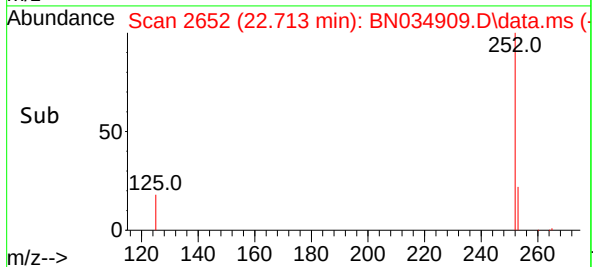
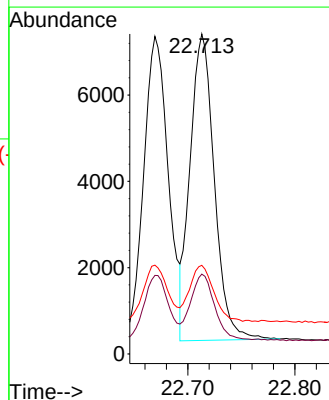
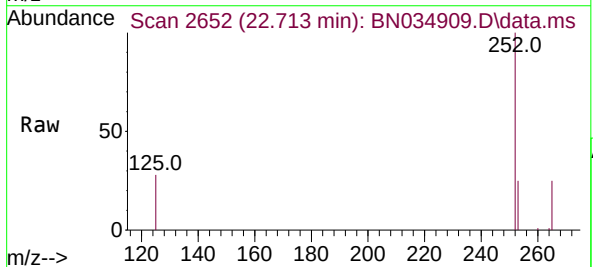
Tgt Ion:252 Resp: 11176

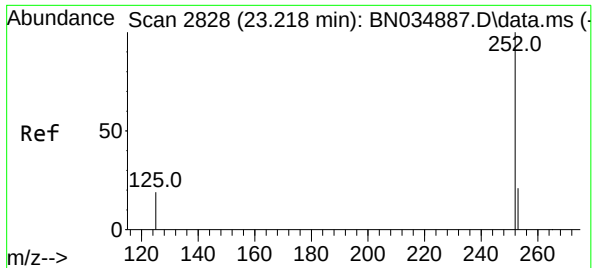
Ion Ratio Lower Upper

252 100

253 24.9 19.8 29.8

125 27.7 22.6 33.8





#39

Benzo(a)pyrene

Concen: 0.380 ng

RT: 23.219 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN034909.D

Acq: 08 Nov 2024 15:29

Instrument :

BNA_N

ClientSampleId :

PB164705BSD

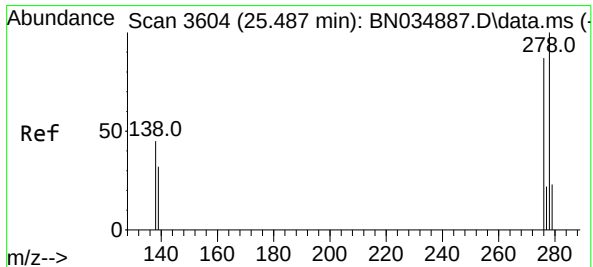
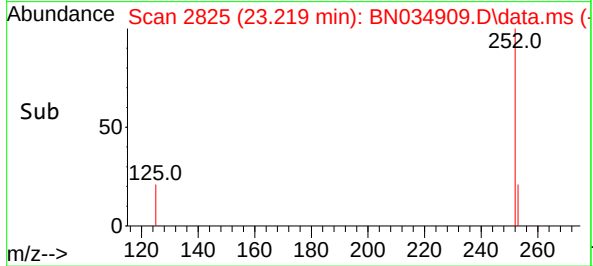
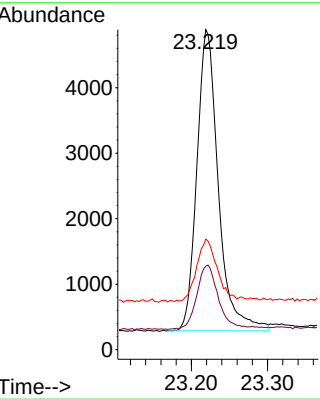
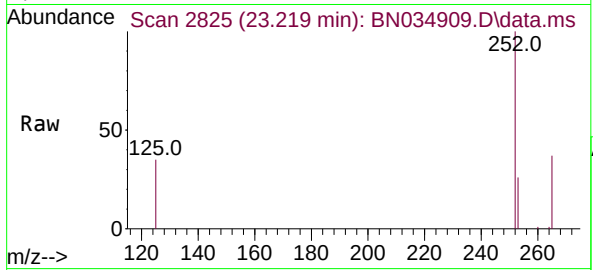
Tgt Ion:252 Resp: 8976

Ion Ratio Lower Upper

252 100

253 26.1 21.4 32.2

125 34.5 27.8 41.6



#40

Dibenzo(a,h)anthracene

Concen: 0.337 ng

RT: 25.488 min Scan# 3601

Delta R.T. 0.001 min

Lab File: BN034909.D

Acq: 08 Nov 2024 15:29

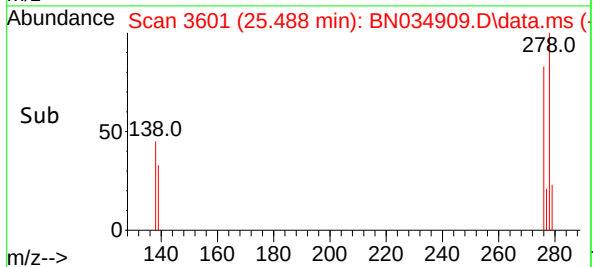
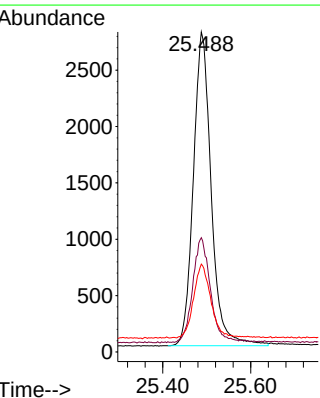
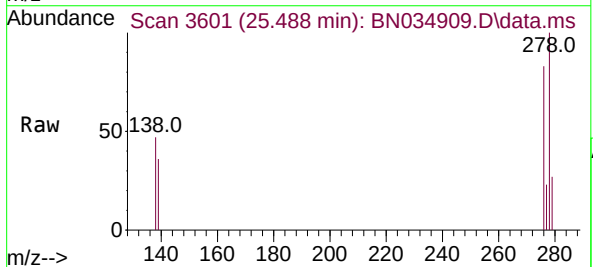
Tgt Ion:278 Resp: 7869

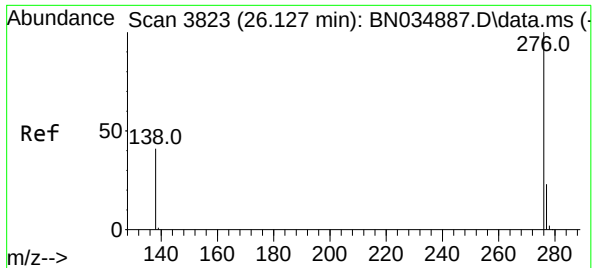
Ion Ratio Lower Upper

278 100

139 35.7 27.2 40.8

279 27.5 21.4 32.0





#41

Benzo(g,h,i)perylene

Concen: 0.336 ng

RT: 26.125 min Scan# 3823

Delta R.T. -0.002 min

Lab File: BN034909.D

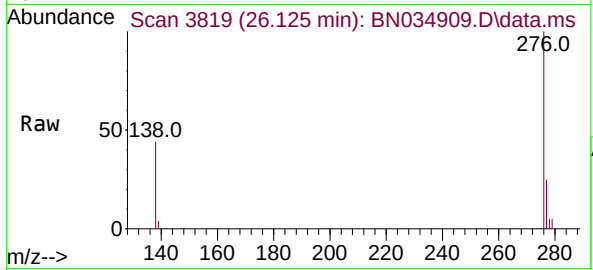
Acq: 08 Nov 2024 15:29

Instrument :

BNA_N

ClientSampleId :

PB164705BSD



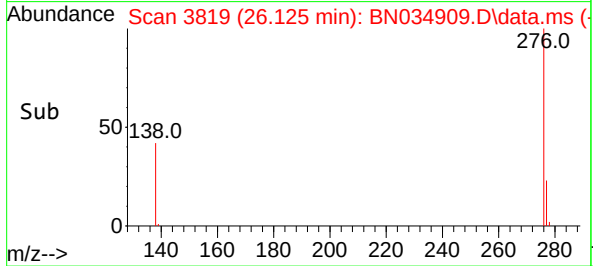
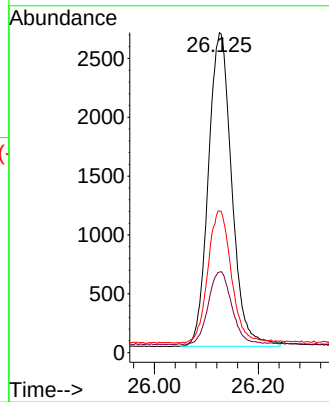
Tgt Ion:276 Resp: 8331

Ion	Ratio	Lower	Upper

276	100		

277	25.1	20.2	30.2

138	44.3	33.9	50.9



Manual Integration Report

Sequence:	BN110724	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.2	BN034886.D	Benzo(k)fluoranthene	yogesh	11/8/2024 3:36:45 AM	mohammad	11/8/2024 3:55:23 AM	Peak Integrated by Software
SSTDICC0.8	BN034888.D	Benzo(b)fluoranthene	yogesh	11/8/2024 3:36:47 AM	mohammad	11/8/2024 3:55:23 AM	Peak Integrated by Software
SSTDICV0.4	BN034892.D	Bis(2-ethylhexyl)phthalate	yogesh	11/8/2024 3:36:48 AM	mohammad	11/8/2024 3:55:23 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN110824	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN034898.D	Bis(2-ethylhexyl)phthalate	Jagrut	11/8/2024 5:39:40 PM	mohammad	11/11/2024 12:24:23 AM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # BN110724

Review By	yogesh	Review On	11/8/2024 3:37:02 AM		
Supervise By	mohammad	Supervise On	11/8/2024 3:55:23 AM		
SubDirectory	BN110724	HP Acquire Method	BNA_N	HP Processing Method	bn110724
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	BN034883.D	07 Nov 2024 08:39	RC/JU	Ok
2	SSTDCCC0.4	BN034884.D	07 Nov 2024 09:18	RC/JU	Not Ok
3	SSTDICC0.1	BN034885.D	07 Nov 2024 10:02	RC/JU	Ok
4	SSTDICC0.2	BN034886.D	07 Nov 2024 10:48	RC/JU	Ok,M
5	SSTDICCC0.4	BN034887.D	07 Nov 2024 11:24	RC/JU	Ok
6	SSTDICC0.8	BN034888.D	07 Nov 2024 12:00	RC/JU	Ok,M
7	SSTDICC1.6	BN034889.D	07 Nov 2024 12:36	RC/JU	Ok
8	SSTDICC3.2	BN034890.D	07 Nov 2024 13:13	RC/JU	Ok
9	SSTDICC5.0	BN034891.D	07 Nov 2024 13:49	RC/JU	Ok
10	SSTDICV0.4	BN034892.D	07 Nov 2024 14:24	RC/JU	Ok,M
11	PB164229BL	BN034893.D	07 Nov 2024 15:04	RC/JU	Ok
12	P4368-02	BN034894.D	07 Nov 2024 15:41	RC/JU	Ok,M
13	P4368-08	BN034895.D	07 Nov 2024 16:17	RC/JU	Ok,M
14	SSTDCCC0.4	BN034896.D	07 Nov 2024 16:58	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN110824

Review By	Jagrut	Review On	11/8/2024 5:40:11 PM		
Supervise By	mohammad	Supervise On	11/11/2024 12:24:23 AM		
SubDirectory	BN110824	HP Acquire Method	BNA_N	HP Processing Method	bn110724
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	BN034897.D	08 Nov 2024 07:50	RC/JU	Ok
2	SSTDCCC0.4	BN034898.D	08 Nov 2024 08:29	RC/JU	Ok,M
3	PB164234BL	BN034899.D	08 Nov 2024 09:05	RC/JU	Ok
4	P4368-03	BN034900.D	08 Nov 2024 09:41	RC/JU	Ok
5	P4368-03	BN034901.D	08 Nov 2024 10:17	RC/JU	Ok
6	P4368-09	BN034902.D	08 Nov 2024 11:12	RC/JU	Ok
7	P4368-09	BN034903.D	08 Nov 2024 11:48	RC/JU	Ok,M
8	PB164235BL	BN034904.D	08 Nov 2024 12:24	RC/JU	Ok
9	P4710-02	BN034905.D	08 Nov 2024 13:05	RC/JU	Ok
10	P4710-03	BN034906.D	08 Nov 2024 13:41	RC/JU	Ok
11	P4710-04	BN034907.D	08 Nov 2024 14:17	RC/JU	Ok
12	PB164705BS	BN034908.D	08 Nov 2024 14:53	RC/JU	Ok
13	PB164705BSD	BN034909.D	08 Nov 2024 15:29	RC/JU	Ok
14	PB164705BL	BN034910.D	08 Nov 2024 16:05	RC/JU	Ok
15	SSTDCCC0.4	BN034911.D	08 Nov 2024 16:41	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN110724

Review By	yogesh	Review On	11/8/2024 3:37:02 AM
Supervise By	mohammad	Supervise On	11/8/2024 3:55:23 AM
SubDirectory	BN110724	HP Acquire Method	BNA_N
		HP Processing Method	bn110724

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	BN034883.D	07 Nov 2024 08:39		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN034884.D	07 Nov 2024 09:18	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC0.1	SSTDICC0.1	BN034885.D	07 Nov 2024 10:02	Compound#20,24 removed from 0.1 ppm	RC/JU	Ok
4	SSTDICC0.2	SSTDICC0.2	BN034886.D	07 Nov 2024 10:48	Compound#14,20,24 Kept on QR	RC/JU	Ok,M
5	SSTDICCC0.4	SSTDICCC0.4	BN034887.D	07 Nov 2024 11:24	Calibration Good for DOD	RC/JU	Ok
6	SSTDICC0.8	SSTDICC0.8	BN034888.D	07 Nov 2024 12:00		RC/JU	Ok,M
7	SSTDICC1.6	SSTDICC1.6	BN034889.D	07 Nov 2024 12:36		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN034890.D	07 Nov 2024 13:13		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN034891.D	07 Nov 2024 13:49		RC/JU	Ok
10	SSTDICV0.4	ICVBN110724	BN034892.D	07 Nov 2024 14:24		RC/JU	Ok,M
11	PB164229BL	PB164229BL	BN034893.D	07 Nov 2024 15:04		RC/JU	Ok
12	P4368-02	LOQ-SOIL-02-QT4-202	BN034894.D	07 Nov 2024 15:41	LOQ-SOIL-0.2 ppm	RC/JU	Ok,M
13	P4368-08	LOQ-WATER-02-QT4-2	BN034895.D	07 Nov 2024 16:17	LOQ-WATER-0.2 ppm	RC/JU	Ok,M
14	SSTDCCC0.4	SSTDCCC0.4EC	BN034896.D	07 Nov 2024 16:58		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN110824

Review By	Jagrut	Review On	11/8/2024 5:40:11 PM
Supervise By	mohammad	Supervise On	11/11/2024 12:24:23 AM
SubDirectory	BN110824	HP Acquire Method	BNA_N
		HP Processing Method	bn110724
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	BN034897.D	08 Nov 2024 07:50		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN034898.D	08 Nov 2024 08:29		RC/JU	Ok,M
3	PB164234BL	PB164234BL	BN034899.D	08 Nov 2024 09:05		RC/JU	Ok
4	P4368-03	MDL-SOIL-03-QT4-202	BN034900.D	08 Nov 2024 09:41	MDL-SOIL 0.1 ppm	RC/JU	Ok
5	P4368-03	MDL-SOIL-03-QT4-202	BN034901.D	08 Nov 2024 10:17	MDL-SOIL 0.2 ppm	RC/JU	Ok
6	P4368-09	MDL-WATER-03-QT4-2	BN034902.D	08 Nov 2024 11:12	MDL-WATER 0.1 ppm	RC/JU	Ok
7	P4368-09	MDL-WATER-03-QT4-2	BN034903.D	08 Nov 2024 11:48	MDL-WATER 0.2 ppm	RC/JU	Ok,M
8	PB164235BL	PB164235BL	BN034904.D	08 Nov 2024 12:24		RC/JU	Ok
9	P4710-02	BP-BPOW6-7-GW-202	BN034905.D	08 Nov 2024 13:05		RC/JU	Ok
10	P4710-03	BP-BPOW6-11-GW-202	BN034906.D	08 Nov 2024 13:41		RC/JU	Ok
11	P4710-04	BP-BPOW6-8-GW-202	BN034907.D	08 Nov 2024 14:17		RC/JU	Ok
12	PB164705BS	PB164705BS	BN034908.D	08 Nov 2024 14:53		RC/JU	Ok
13	PB164705BSD	PB164705BSD	BN034909.D	08 Nov 2024 15:29		RC/JU	Ok
14	PB164705BL	PB164705BL	BN034910.D	08 Nov 2024 16:05		RC/JU	Ok
15	SSTDCCC0.4	SSTDCCC0.4EC	BN034911.D	08 Nov 2024 16:41		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 11/06/2024

Extraction Start Time : 08:45

Extraction End Date : 11/06/2024

Extraction End Time : 13:30

Concentration By: RS

Supervisor By : rajesh

Extraction Method: ☒ Separatory Funnel ☐ Continous 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	E3823
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

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

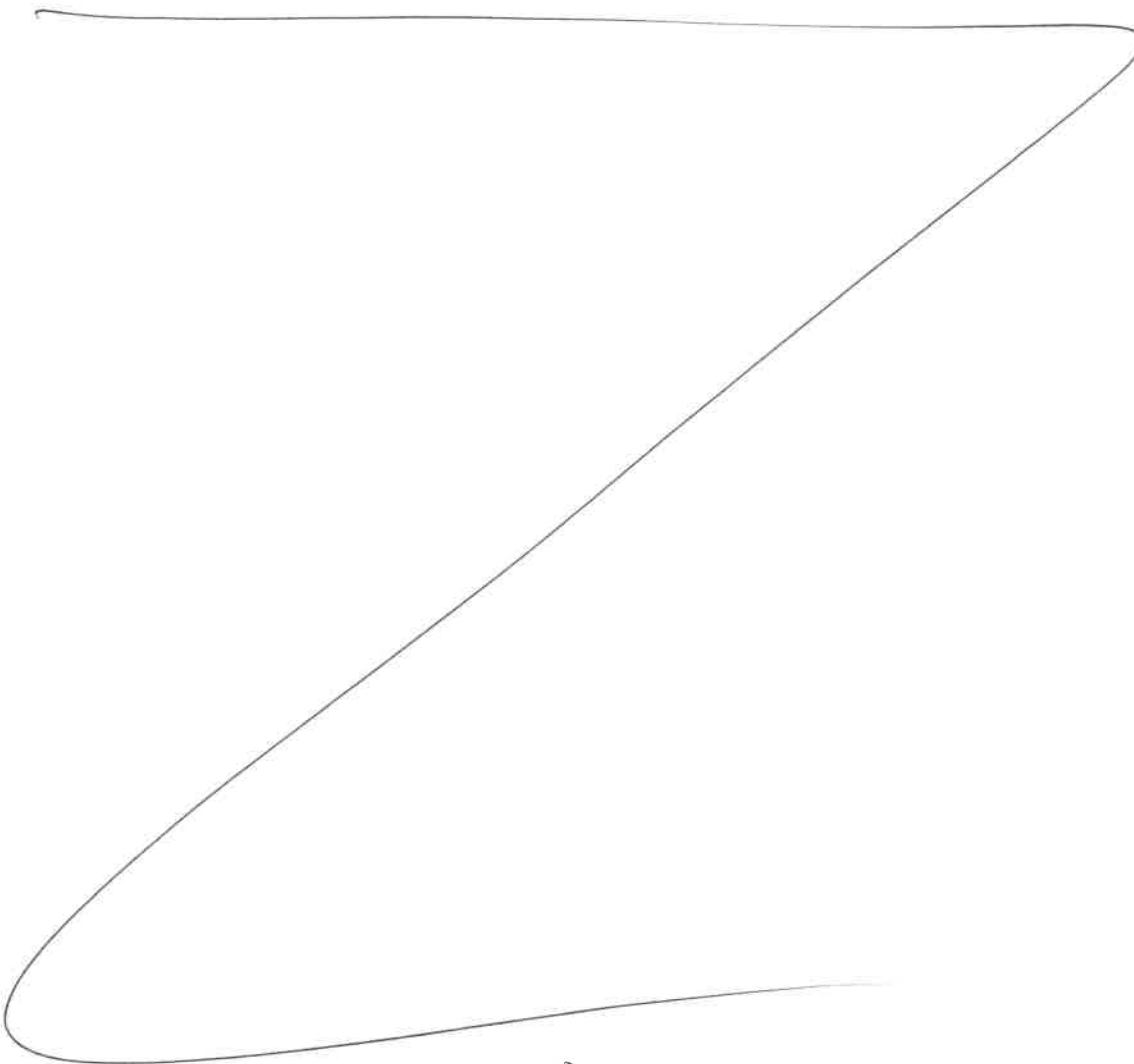
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/6/24	RP (Set 109)	AP/SVOC
13:35	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 11/06/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164705BL	SBLK705	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			SEP-01
PB164705BS	SLCS705	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			2
PB164705BS D	SLCSD705	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			3
P4710-02	BP-BPOW6-7-GW-202410 30	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1	C		4
P4710-03	BP-BPOW6-11-GW-20241 031	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1	C		5
P4710-04	BP-BPOW6-8-GW-202411 01	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1	C		6



11/10/24

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4710

WorkList ID : 185158

Department : Extraction

Date : 11-06-2024 08:22:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4710-02	BP-BPOW6-7-GW-20241030	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	10/30/2024	8270-Modified
P4710-03	BP-BPOW6-11-GW-20241031	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	10/31/2024	8270-Modified
P4710-04	BP-BPOW6-8-GW-20241101	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	11/01/2024	8270-Modified

Date/Time 11/6/24 8:40
Raw Sample Received by: RJ (GFS 10/6/24)
Raw Sample Relinquished by: CP 8/24

P4710-SVOC-SIMGroup1

Date/Time 11/6/24 9:05
Raw Sample Received by: CP 8/24
Raw Sample Relinquished by: RJ (GFS 10/6/24)
377 of 535

Prep Standard - Chemical Standard Summary

Order ID : P4710
Test : SVOC-SIMGroup1
Prepbatch ID : PB164705,
Sequence ID/Qc Batch ID: BN110824,

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,E3823,M5178,S10103,S10247,S10782,S10977,S 11003,S11011,S11097,S11494,S11566,S11766,S11771,S12029,S12077,S12096,S12105,S12112,S12113,S12117,S12126,S12453,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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)	24I2662006	05/03/2025	11/03/2024 / Rajesh	10/24/2024 / Rajesh	E3823

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

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Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04					

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: Erica Castiglione
Erica Castiglione
Chemist



5580 Skylane Blvd
Santa Rosa, CA 95403

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02/07/23 by CG

Sheet 511096
to
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Manufacturer's Quality System
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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)

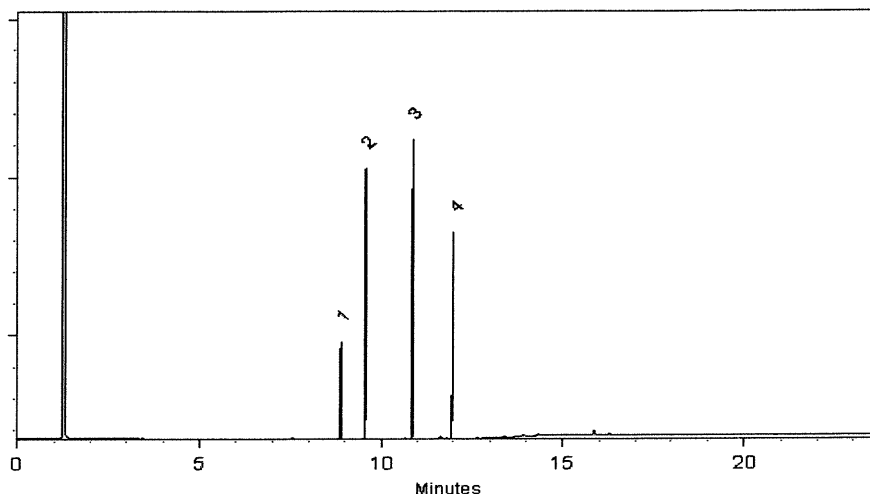
Carrier Gas:
hydrogen-constant pressure 10 psi.

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
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.

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	2,015.0 µg/mL	+/- 11.8254 µg/mL	Gravimetric
	CAS # 7297-45-2 (Lot EF-135)		+/- 90.7728 µg/mL	Unstressed
	Purity 96%		+/- 100.7207 µg/mL	Stressed
2	Fluoranthene-d10	2,007.0 µg/mL	+/- 11.7782 µg/mL	Gravimetric
	CAS # 93951-69-0 (Lot PR-20668)		+/- 90.4107 µg/mL	Unstressed
	Purity 99%		+/- 100.3188 µg/mL	Stressed
Solvent: Methylene chloride				
CAS # 75-09-2				
Purity 99%				

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

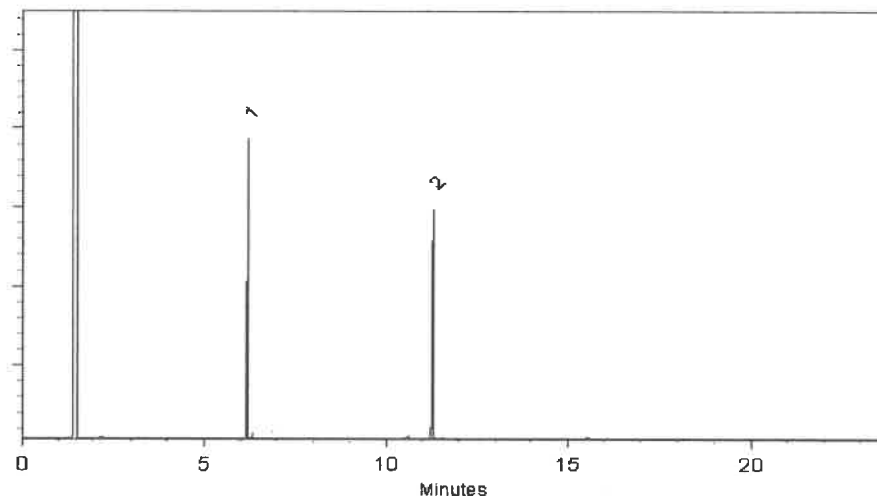
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

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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Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** 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

Received by
CG on
12/28/22
S10951
to
S10980

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:

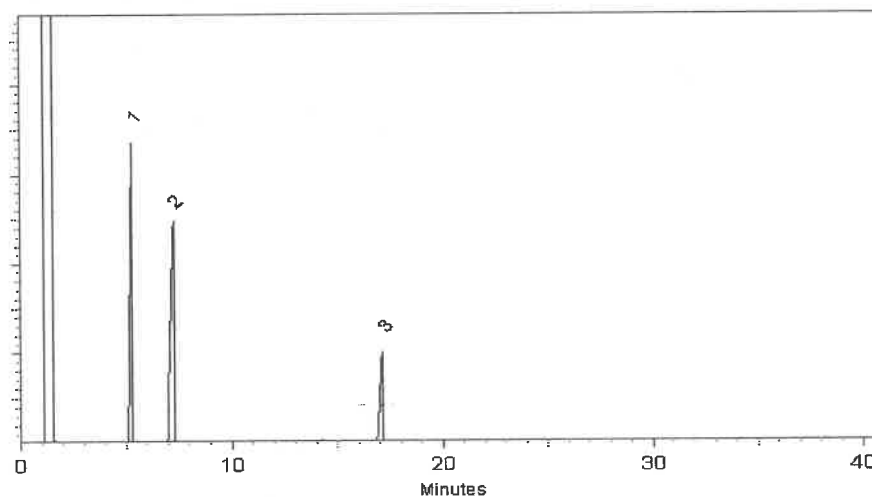
250°C

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



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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:

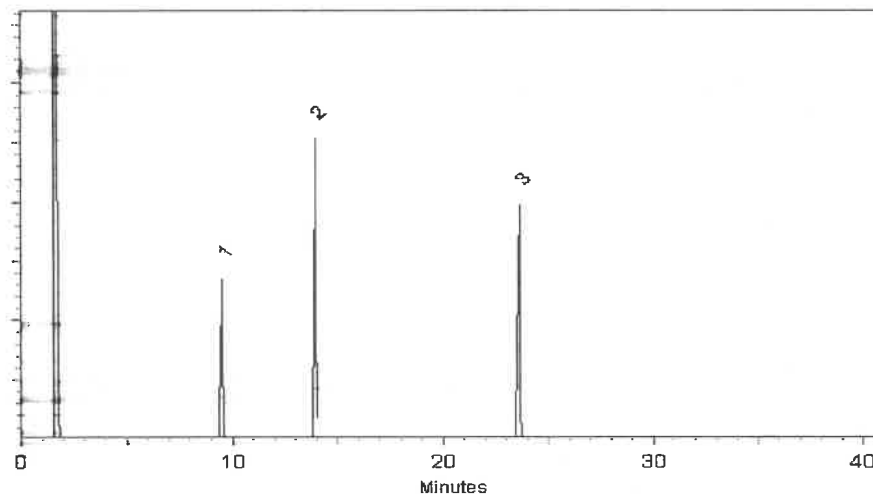
250°C

Det. Temp:

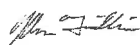
330°C

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
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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.

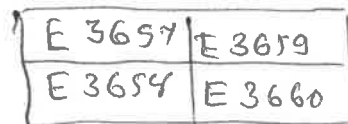
This document has been electronically produced and is valid without a signature.

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


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	≤ 1.0 ppm	0.1 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: 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)

 **avantors**TM



Material No.: 9266-A4

Batch No.: 24I2662006

Manufactured Date: 2024-08-29

Expiration Date: 2025-11-28

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
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 3823



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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



5580 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
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 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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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

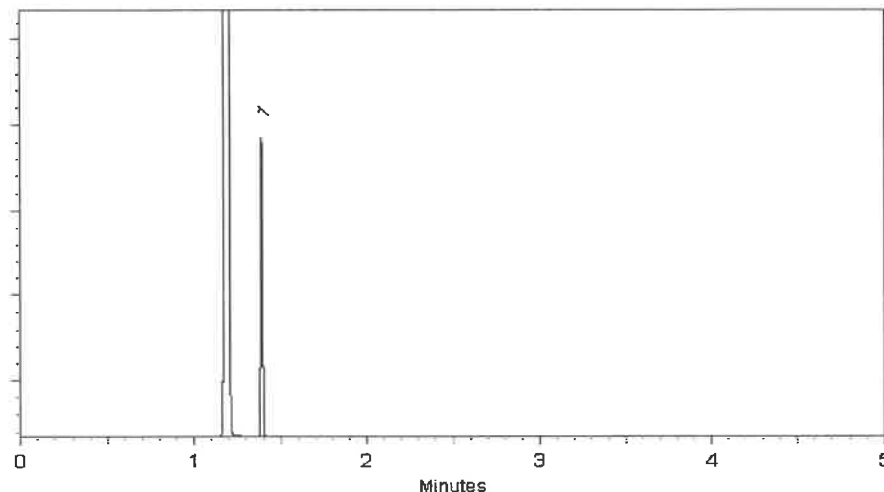
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

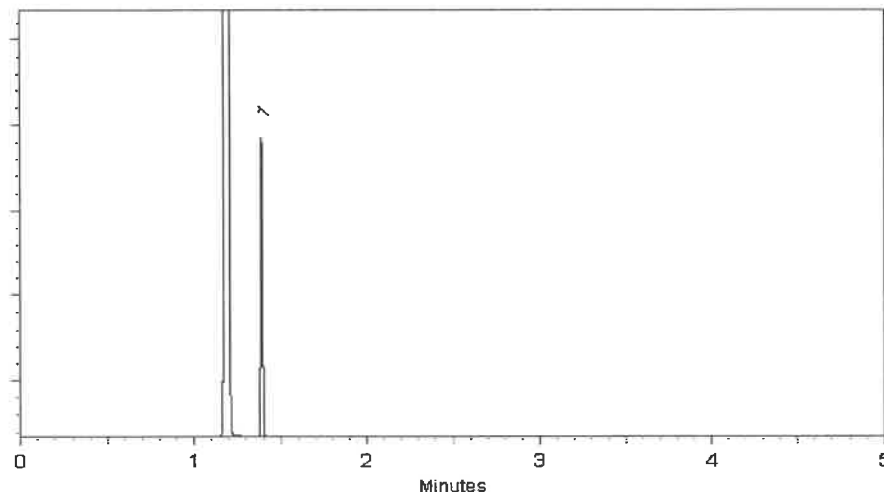
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

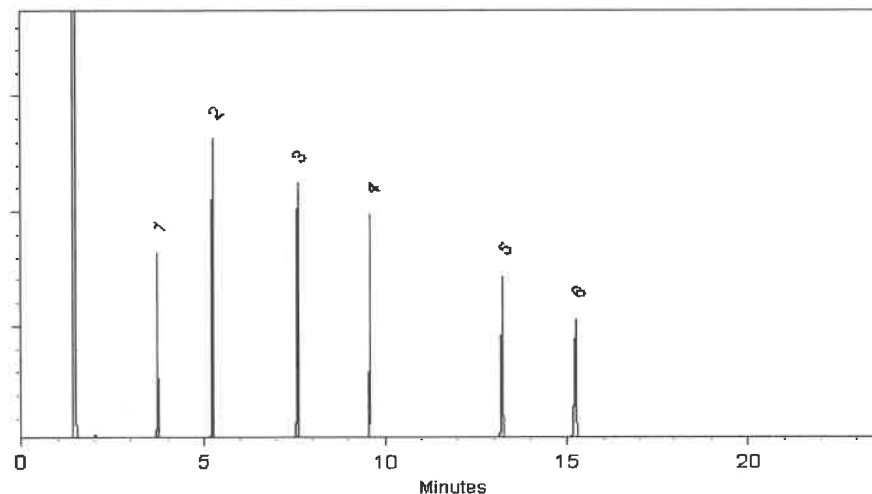
FID

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
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

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.



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. : 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



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. : 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



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-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.



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-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.



110 Benner Circle
Bellefonte, PA 16823-8812
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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. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	1
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	2
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	3
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	4
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	5
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	6
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	7
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	8
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	9
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	10
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	11
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	12
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	13
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	14
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	15
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	16
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	17
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	18
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
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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. : 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

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



SHIPPING DOCUMENTS

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

CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: P4710														
				COC Number:														
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION														
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage		BILL TO: SEE CONTRACT		PO#												
ADDRESS: 4433 Corporation Lane Suite 300		PROJECT #: 112G08005-WE13 LOCATION: VPB-196		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: _____ 2 & 10 _____ DAYS* HARD COPY: _____ 2 & 10 _____ DAYS* EDD _____ 2 & 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 _____		VOC(SW846-9260B) 1,4 Dioxane (8270 SIM) <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></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 COMP GRAB	SAMPLE COLLECTION DATE TIME		# of Bottles	A											<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
							1	2	3	4	5	6	7	8	9			
1.	BP-TB-20241030	QA		X	10/30/24	8:00	2	2										Trip Blank
2.	BP-BPOW6-7-GW-20241030	AQ		X	10/30/24	13:20	3	2	1									
3.	BP-BPOW6-11-GW-20241031	AQ		X	10/31/24	13:40	3	2	1									
4.	BP-BPOW6-8-GW-20241101	AQ		X	11/1/24	13:10	3	2	1									
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY																		
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY		Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp 3.1°C MeOH extraction requires an additional 4oz. Jar for percent solid q Ice in Cooler?: _____ Comments: Standard TAT												
1.		11/4/24 1530		1.														
RELINQUISHED BY		DATE/TIME		RECEIVED BY														
2.				2.														
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY		Page <u>1</u> of <u>1</u>				SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight				Shipment Complete ☐ YES ☐ NO				
3.		11-4-24 1800		3.														

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4710	TETR06	Order Date : 11/4/2024 3:44:00 PM	Project Mgr : Yazmeen
Client Name : Tetra Tech NUS, Inc.		Project Name : CTO WE13	Report Type : Level 4
Client Contact : Ernie Wu		Receive DateTime : 11/4/2024 6:00:00 PM	EDD Type : ADAPT
Invoice Name : Tetra Tech NUS, Inc.		Purchase Order :	Hard Copy Date :
Invoice Contact : Ernie Wu			Date Signoff : 11/5/2024 11:07:08 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4710-02	BP-BPOW6-7-GW-20241030	Water	10/30/2024	13:20					
					VOCMS Group1		8260-Low	10 Bus. Days	
P4710-03	BP-BPOW6-11-GW-20241031	Water	10/31/2024	13:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
P4710-04	BP-BPOW6-8-GW-20241101	Water	11/01/2024	13:10					
04710-01	BP-PB-20241030	water	10/30	8:00	VOCMS Group1		8260-Low	10 Bus. Days	
					vocms group 1		8260-Low	10 Days	

Relinquished By :

Date / Time : 11/5/24 11:45

Received By :

Date / Time : 11/15/21

Storage Area : VOA Refridgerator Room

Received on 11/4/24
Placed in SM-REF

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
 Data File : BN034886.D
 Acq On : 07 Nov 2024 10:48
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Nov 07 14:40:16 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 07 14:34:20 2024
 Response via : Initial Calibration

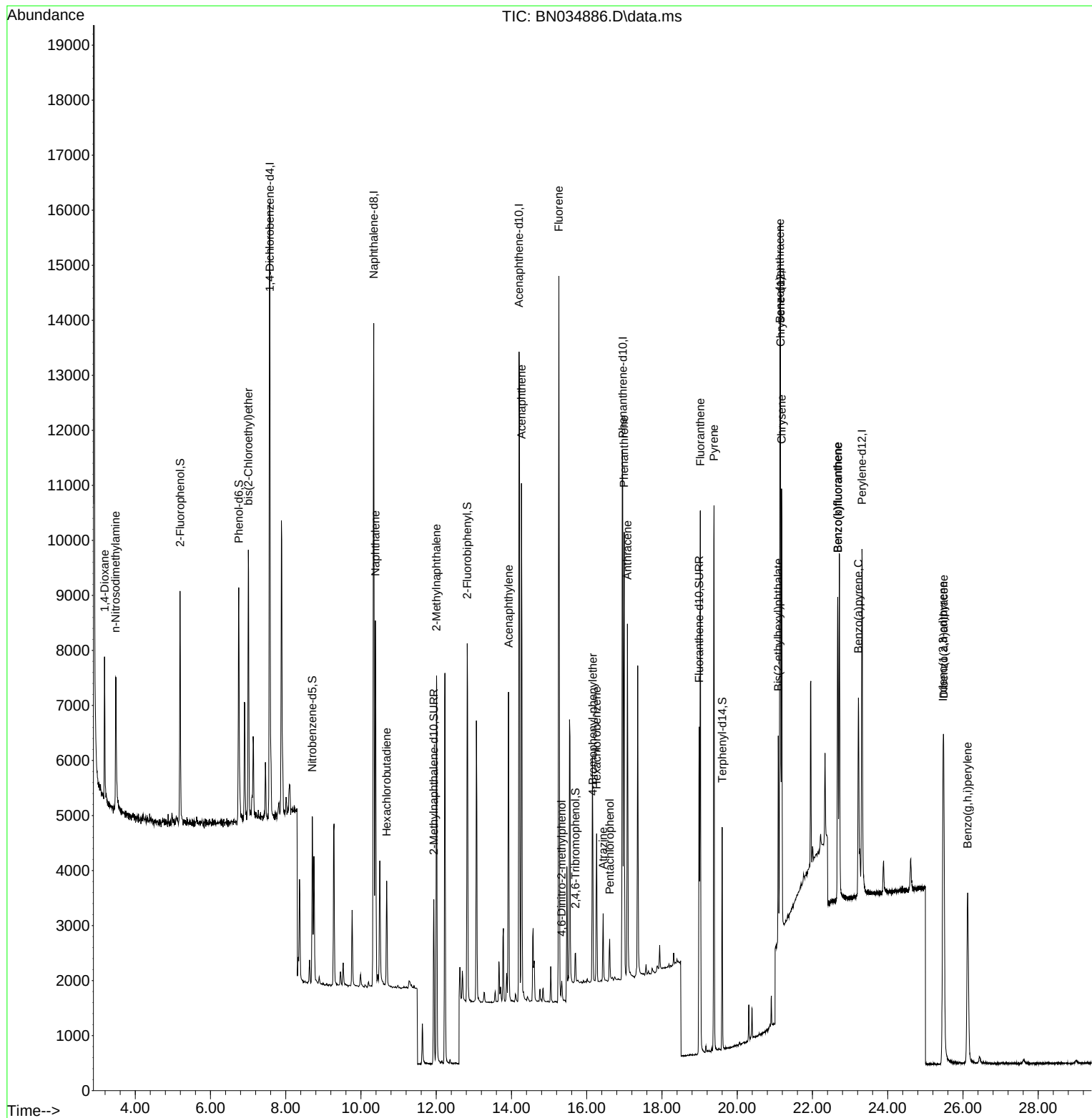
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	5400	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	15723	0.400	ng	0.00
13) Acenaphthene-d10	14.201	164	6785	0.400	ng	-0.01
19) Phenanthrene-d10	16.957	188	14024	0.400	ng	0.00
29) Chrysene-d12	21.151	240	8450	0.400	ng	0.00
35) Perylene-d12	23.317	264	7815	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.192	112	3053	0.203	ng	0.00
5) Phenol-d6	6.752	99	3885	0.194	ng	0.00
8) Nitrobenzene-d5	8.707	82	2366	0.193	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	4079	0.190	ng	0.00
14) 2,4,6-Tribromophenol	15.704	330	320	0.196	ng	0.00
15) 2-Fluorobiphenyl	12.822	172	5892	0.206	ng	-0.01
27) Fluoranthene-d10	18.987	212	5926	0.187	ng	0.00
31) Terphenyl-d14	19.601	244	3169	0.200	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.184	88	1518	0.222	ng	95
3) n-Nitrosodimethylamine	3.480	42	1930	0.210	ng	98
6) bis(2-Chloroethyl)ether	7.004	93	3421	0.198	ng	99
9) Naphthalene	10.383	128	8538	0.196	ng	99
10) Hexachlorobutadiene	10.682	225	1413	0.203	ng	# 100
12) 2-Methylnaphthalene	12.007	142	5037	0.189	ng	98
16) Acenaphthylene	13.923	152	6195	0.189	ng	100
17) Acenaphthene	14.265	154	4347	0.192	ng	99
18) Fluorene	15.259	166	5429	0.193	ng	100
20) 4,6-Dinitro-2-methylph...	15.334	198	229	0.203	ng	# 73
21) 4-Bromophenyl-phenylether	16.163	248	1410	0.189	ng	99
22) Hexachlorobenzene	16.262	284	1785	0.198	ng	99
23) Atrazine	16.436	200	957	0.177	ng	96
24) Pentachlorophenol	16.610	266	384	0.205	ng	98
25) Phenanthrene	16.995	178	8193	0.190	ng	100
26) Anthracene	17.081	178	6756	0.182	ng	100
28) Fluoranthene	19.020	202	8296	0.183	ng	99
30) Pyrene	19.382	202	8470	0.198	ng	100
32) Benzo(a)anthracene	21.134	228	6220	0.189	ng	99
33) Chrysene	21.178	228	6897	0.198	ng	97
34) Bis(2-ethylhexyl)phtha...	21.089	149	3687	0.195	ng	98
36) Indeno(1,2,3-cd)pyrene	25.472	276	6848	0.197	ng	99
37) Benzo(b)fluoranthene	22.671	252	6257	0.182	ng	# 90
38) Benzo(k)fluoranthene	22.671	252	6257	0.175	ng	92
39) Benzo(a)pyrene	23.221	252	4882	0.179	ng	# 88
40) Dibenzo(a,h)anthracene	25.487	278	5297	0.197	ng	96
41) Benzo(g,h,i)perylene	26.124	276	5602	0.196	ng	97

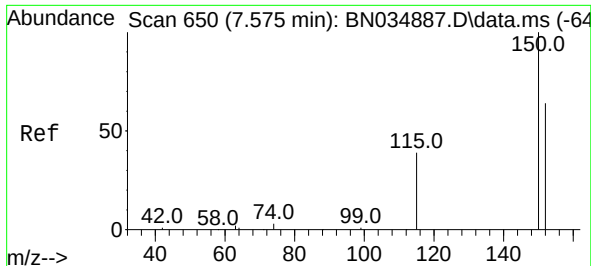
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
Data File : BN034886.D
Acq On : 07 Nov 2024 10:48
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 07 14:40:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 14:34:20 2024
Response via : Initial Calibration

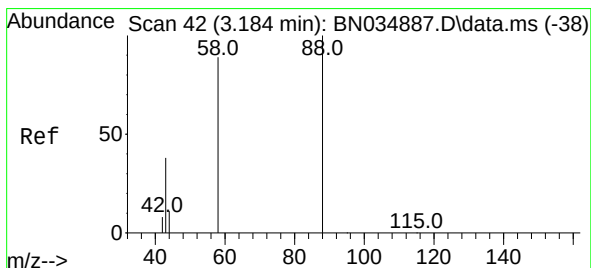
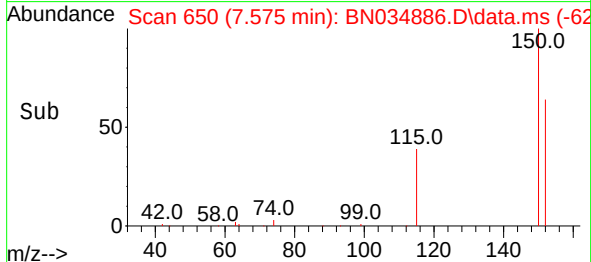
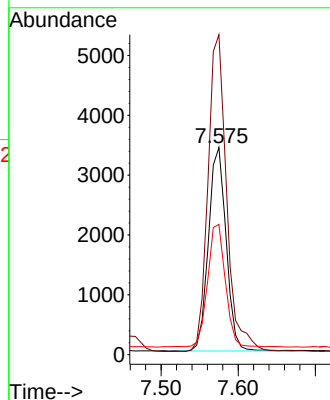
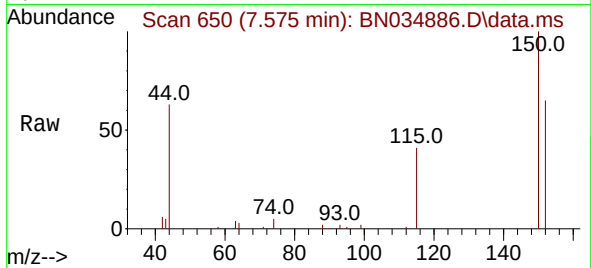




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN034886.D
 Acq: 07 Nov 2024 10:48

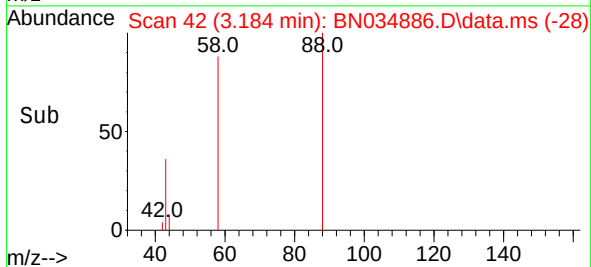
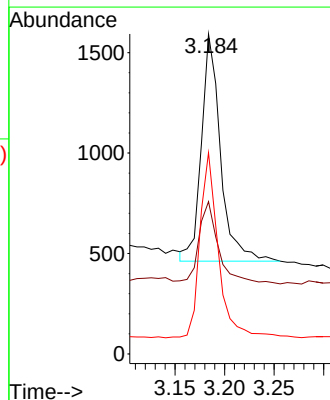
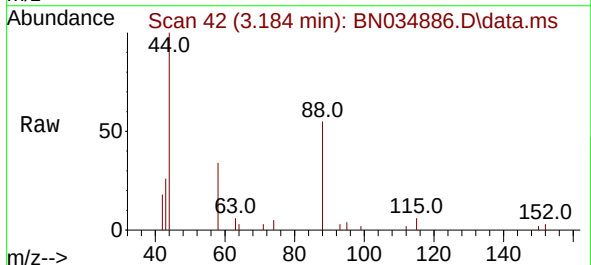
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

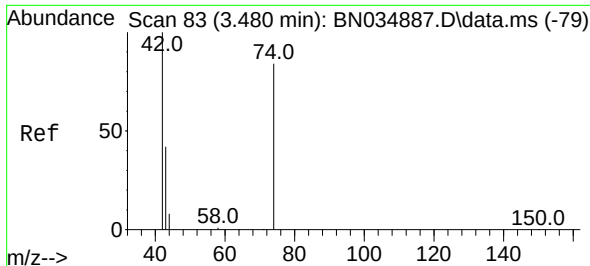
Tgt Ion:152 Resp: 5400
 Ion Ratio Lower Upper
 152 100
 150 154.4 124.4 186.6
 115 62.8 50.5 75.7



#2
 1,4-Dioxane
 Concen: 0.222 ng
 RT: 3.184 min Scan# 42
 Delta R.T. 0.000 min
 Lab File: BN034886.D
 Acq: 07 Nov 2024 10:48

Tgt Ion: 88 Resp: 1518
 Ion Ratio Lower Upper
 88 100
 43 37.9 28.2 42.2
 58 79.1 67.1 100.7

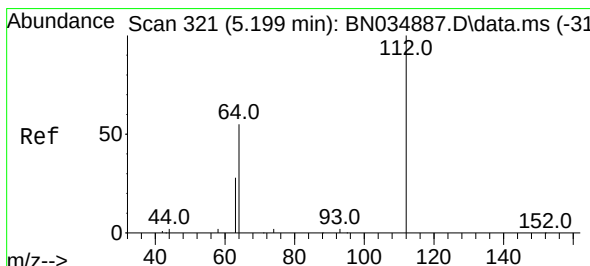
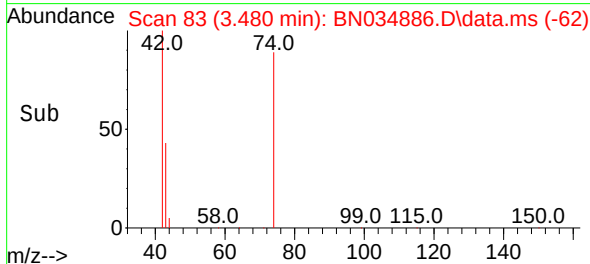
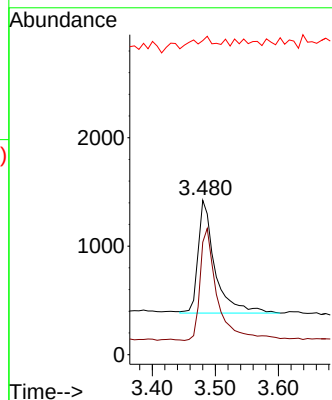
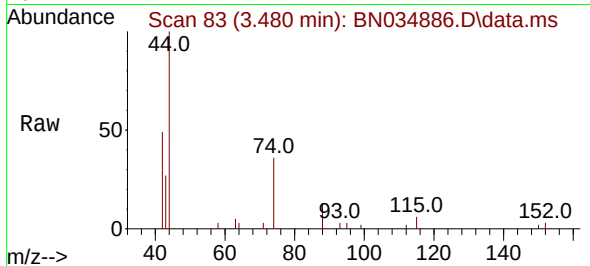




#3
n-Nitrosodimethylamine
Concen: 0.210 ng
RT: 3.480 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

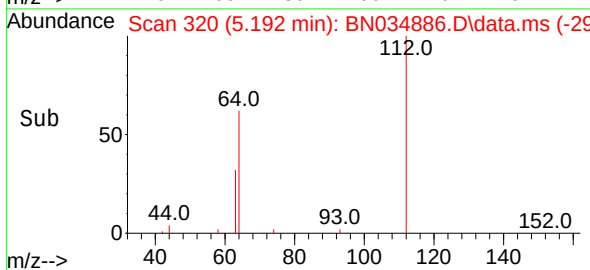
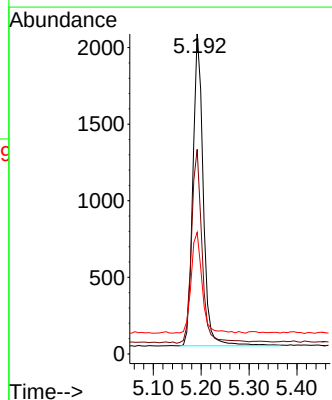
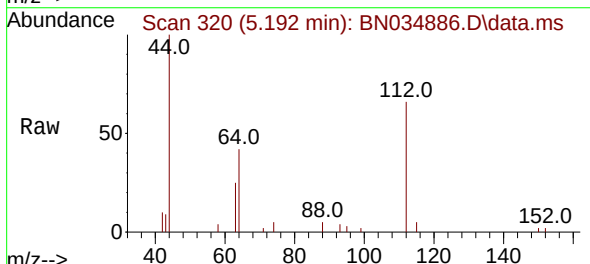
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

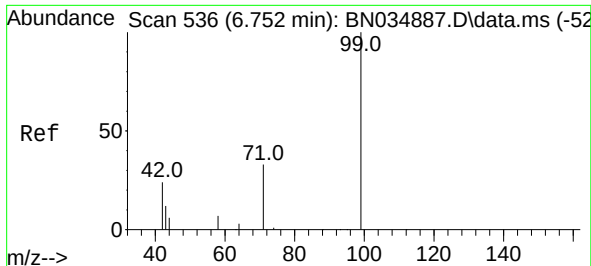
Tgt Ion: 42 Resp: 1930
Ion Ratio Lower Upper
42 100
74 102.0 83.4 125.2
44 12.3 8.6 12.8



#4
2-Fluorophenol
Concen: 0.203 ng
RT: 5.192 min Scan# 320
Delta R.T. -0.007 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion: 112 Resp: 3053
Ion Ratio Lower Upper
112 100
64 63.4 49.6 74.4
63 34.2 26.3 39.5

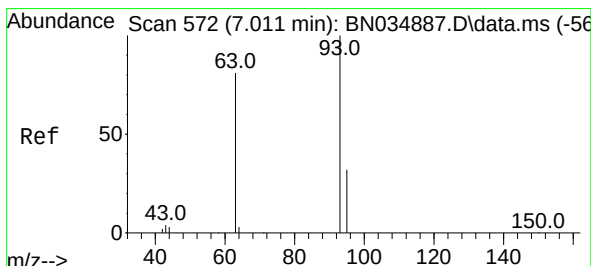
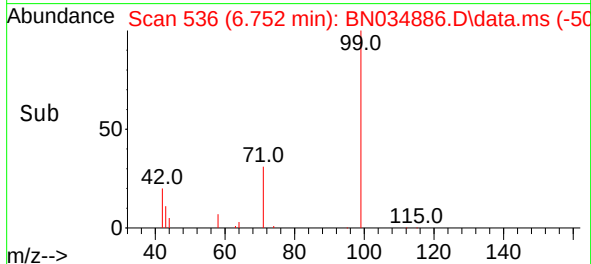
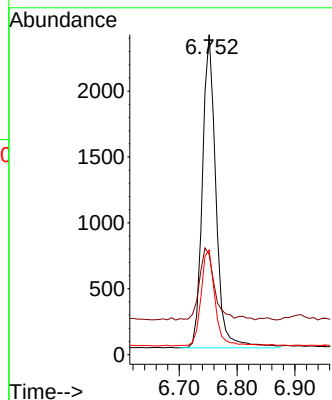
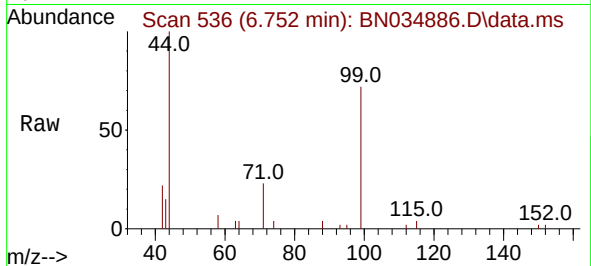




#5
Phenol-d6
Concen: 0.194 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

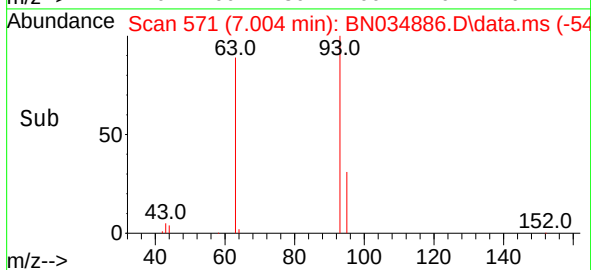
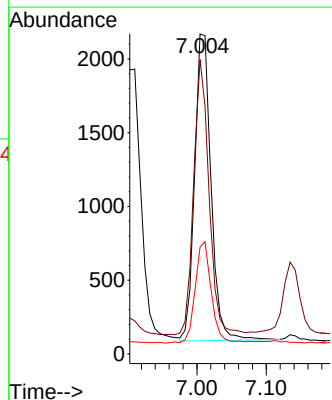
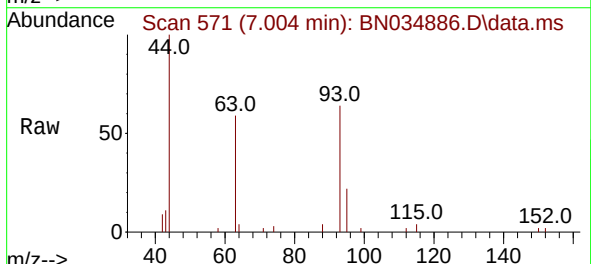
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

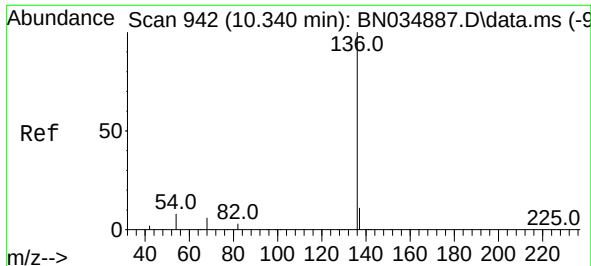
Tgt Ion:	99	Resp:	3885
Ion	Ratio	Lower	Upper
99	100		
42	25.3	20.2	30.2
71	31.0	25.4	38.0



#6
bis(2-Chloroethyl)ether
Concen: 0.198 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:	93	Resp:	3421
Ion	Ratio	Lower	Upper
93	100		
63	83.6	67.5	101.3
95	32.3	25.7	38.5

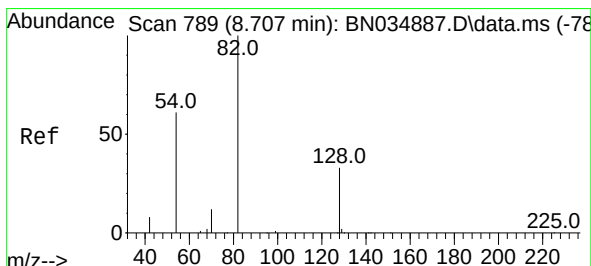
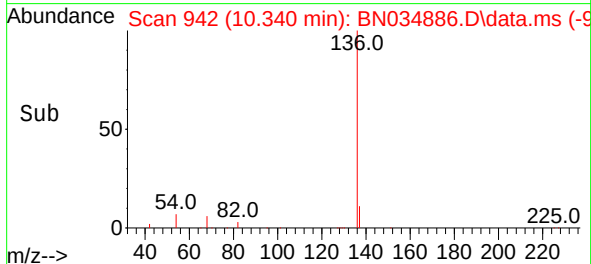
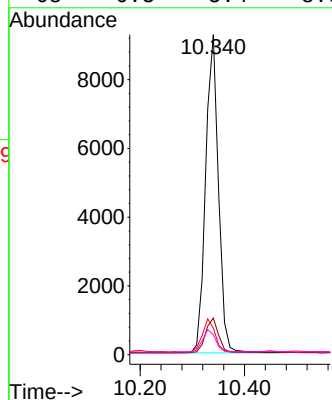
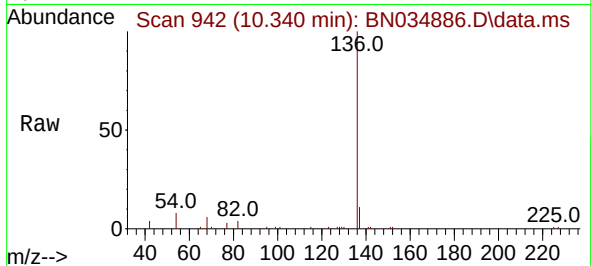




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

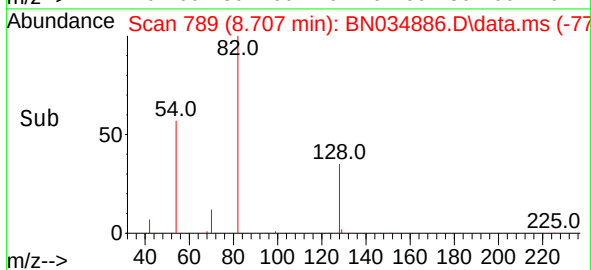
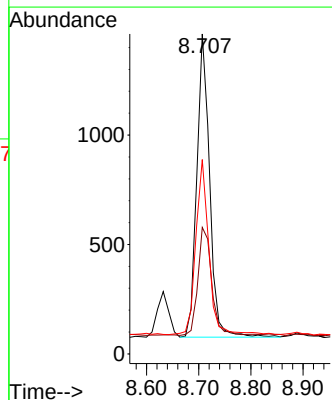
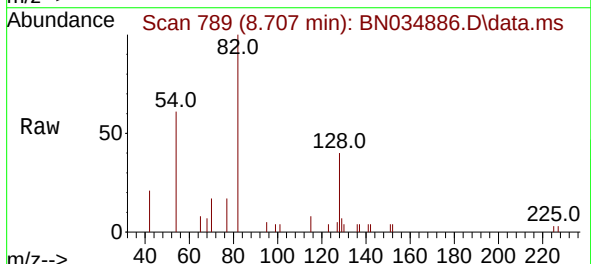
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

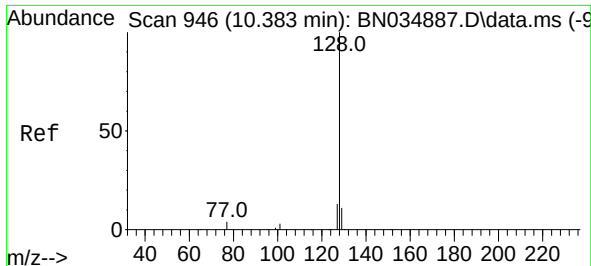
Tgt Ion:	136	Resp:	15723
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.9	13.3
54	8.3	6.9	10.3
68	6.3	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.193 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:	82	Resp:	2366
Ion Ratio	Lower	Upper	
82	100		
128	39.5	28.1	42.1
54	60.7	49.8	74.6

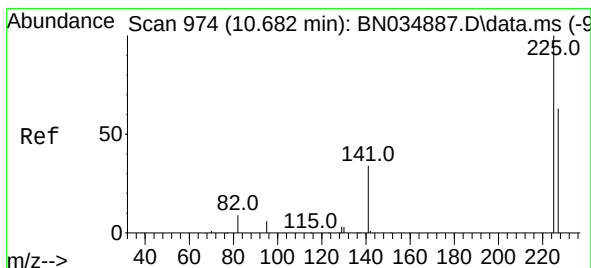
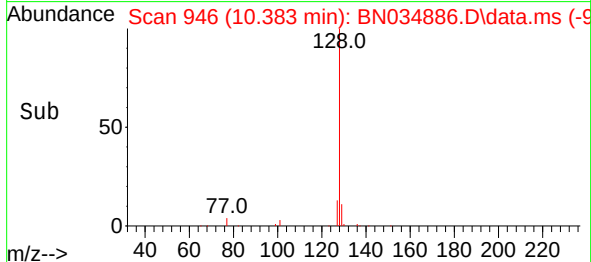
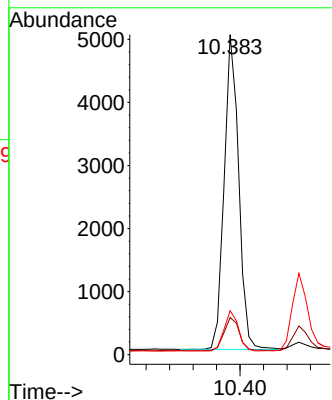
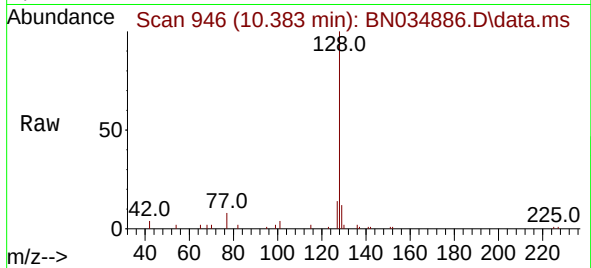




#9
Naphthalene
Concen: 0.196 ng
RT: 10.383 min Scan# 946
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

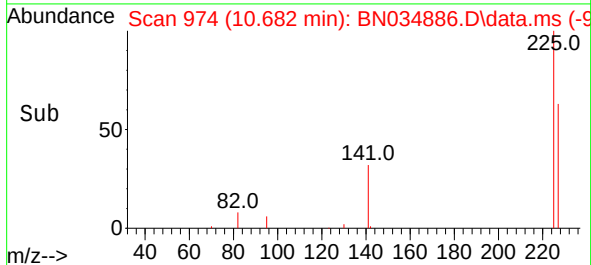
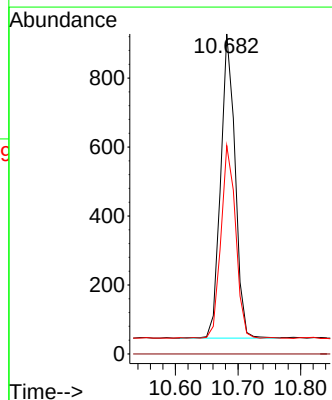
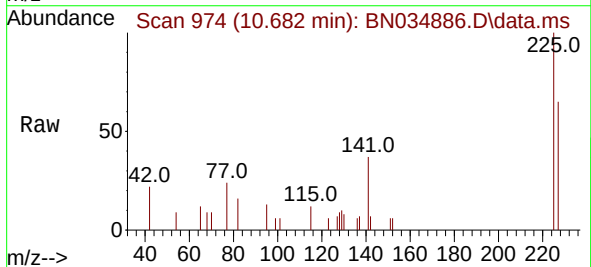
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

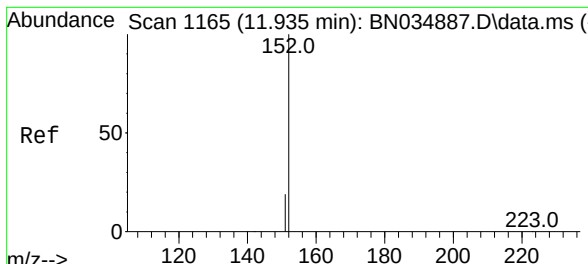
Tgt Ion:128 Resp: 8538
Ion Ratio Lower Upper
128 100
129 11.6 9.0 13.4
127 13.8 10.8 16.2



#10
Hexachlorobutadiene
Concen: 0.203 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:225 Resp: 1413
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.1 52.0 78.0



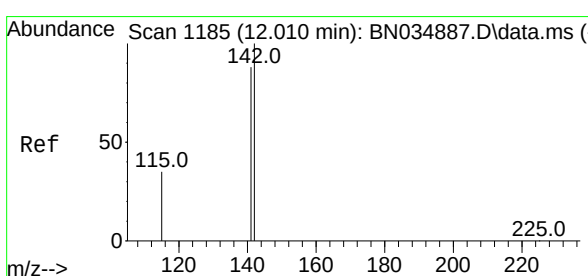
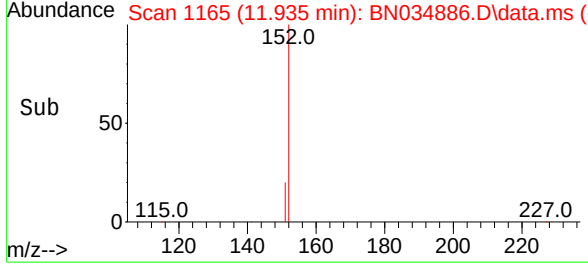
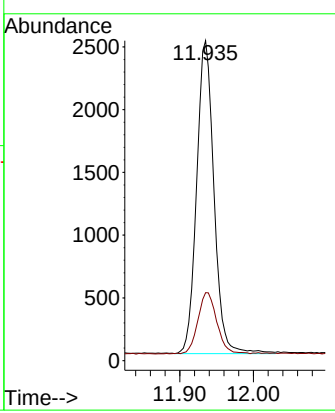
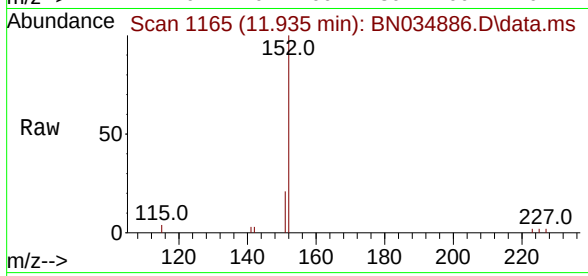


#11
 2-Methylnaphthalene-d10
 Concen: 0.190 ng
 RT: 11.935 min Scan# 1165
 Delta R.T. 0.000 min
 Lab File: BN034886.D
 Acq: 07 Nov 2024 10:48

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Tgt Ion:152 Resp: 4079

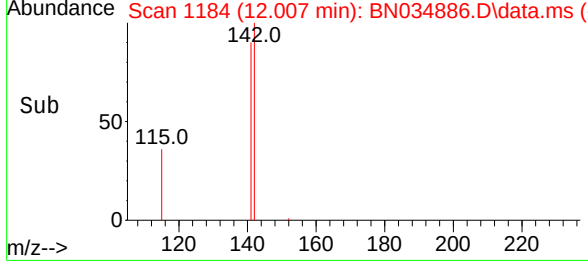
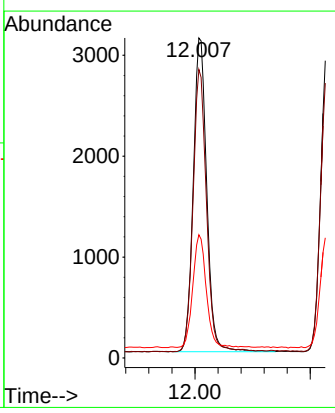
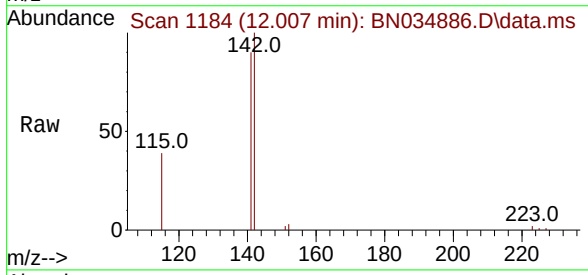
Ion	Ratio	Lower	Upper
152	100		
151	21.4	17.1	25.7

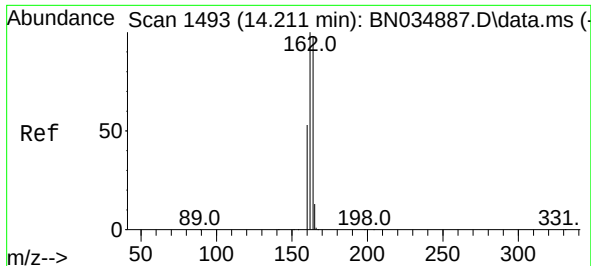


#12
 2-Methylnaphthalene
 Concen: 0.189 ng
 RT: 12.007 min Scan# 1184
 Delta R.T. -0.004 min
 Lab File: BN034886.D
 Acq: 07 Nov 2024 10:48

Tgt Ion:142 Resp: 5037

Ion	Ratio	Lower	Upper
142	100		
141	90.2	70.5	105.7
115	38.5	29.4	44.2

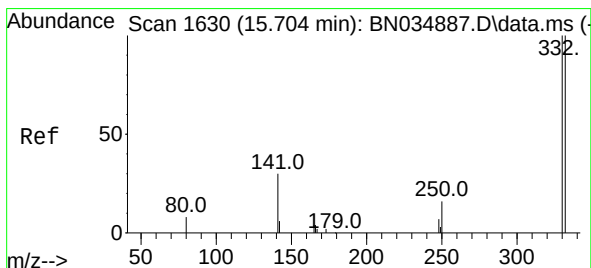
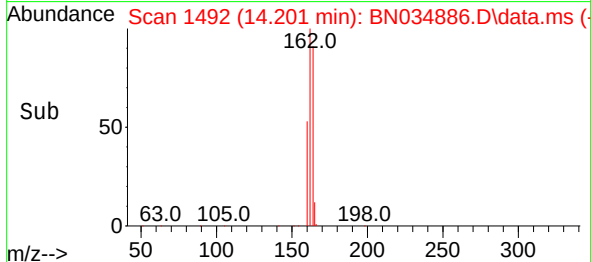
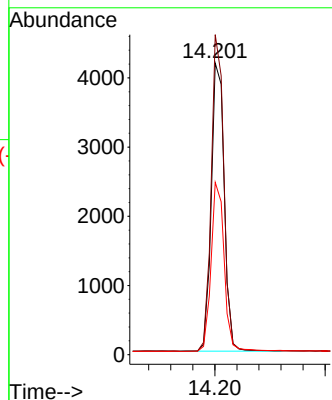
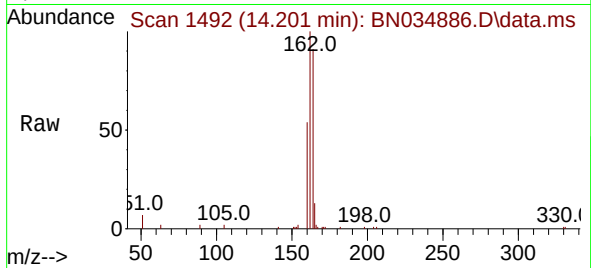




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.201 min Scan# 1492
Delta R.T. -0.010 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

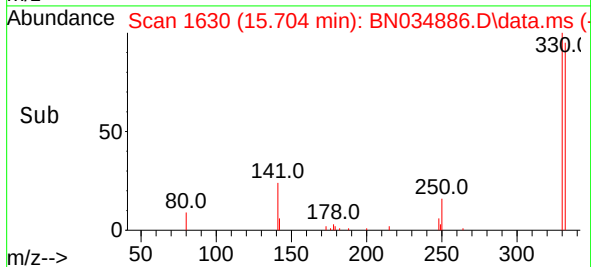
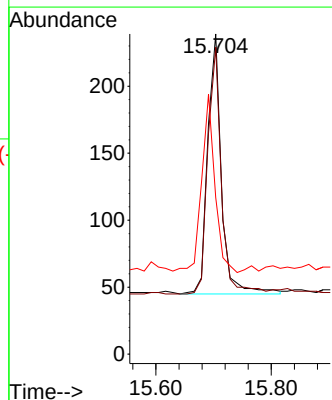
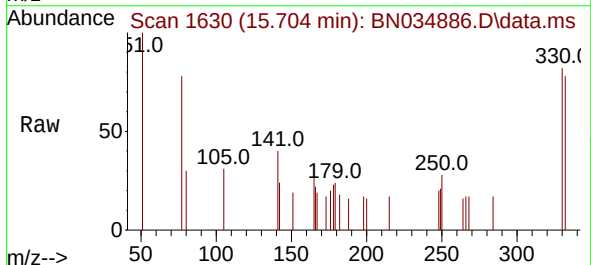
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

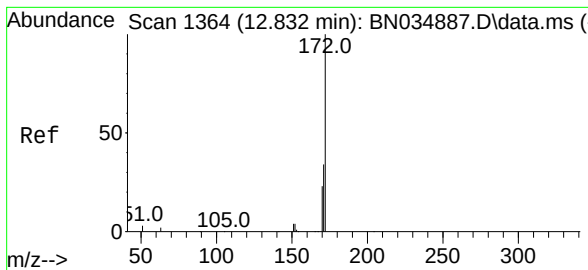
Tgt Ion:164 Resp: 6785
Ion Ratio Lower Upper
164 100
162 109.8 81.9 122.9
160 59.1 43.5 65.3



#14
2,4,6-Tribromophenol
Concen: 0.196 ng
RT: 15.704 min Scan# 1630
Delta R.T. -0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:330 Resp: 320
Ion Ratio Lower Upper
330 100
332 93.4 77.1 115.7
141 66.3 54.1 81.1

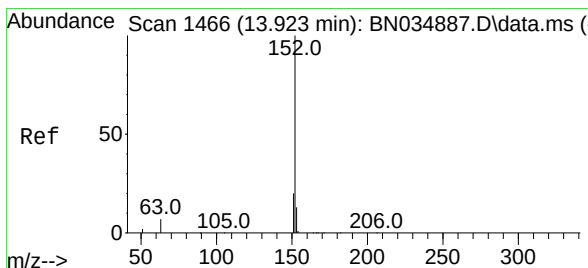
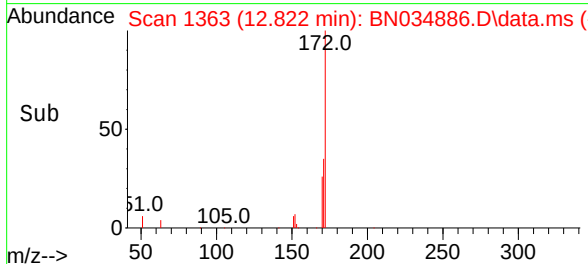
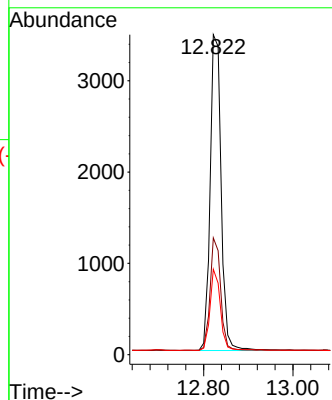
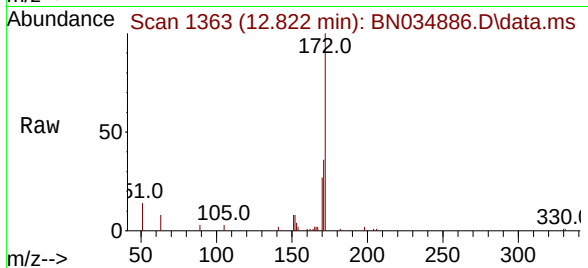




#15
2-Fluorobiphenyl
Concen: 0.206 ng
RT: 12.822 min Scan# 1466
Delta R.T. -0.011 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

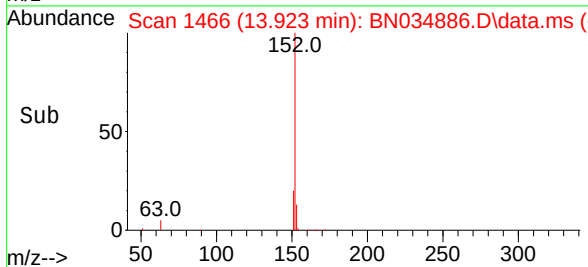
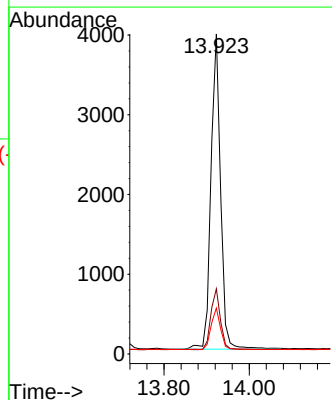
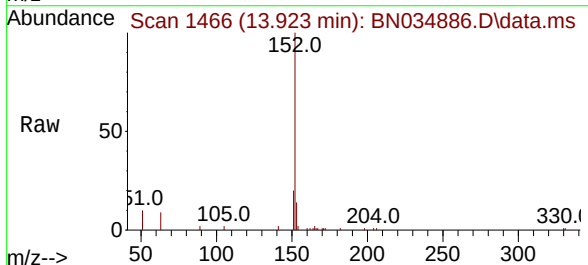
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

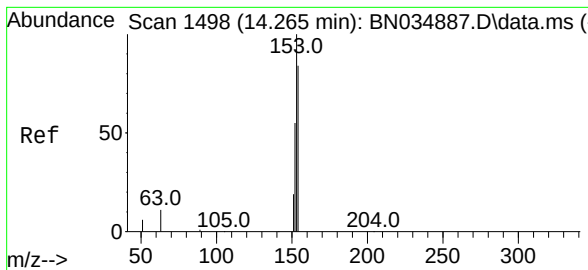
Tgt Ion:	172	Resp:	5892
Ion Ratio	Lower	Upper	
172	100		
171	36.5	27.9	41.9
170	26.7	19.0	28.4



#16
Acenaphthylene
Concen: 0.189 ng
RT: 13.923 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:	152	Resp:	6195
Ion Ratio	Lower	Upper	
152	100		
151	19.0	15.2	22.8
153	13.0	10.4	15.6

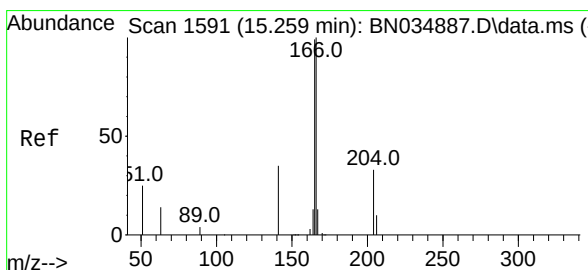
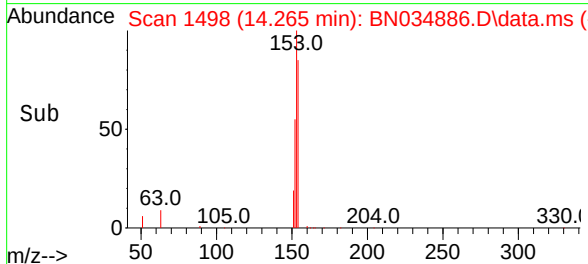
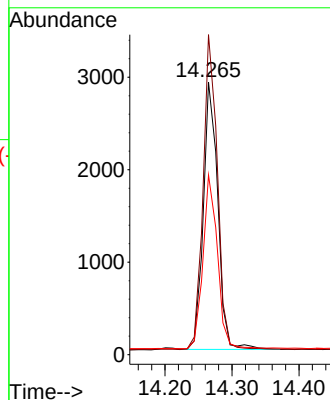
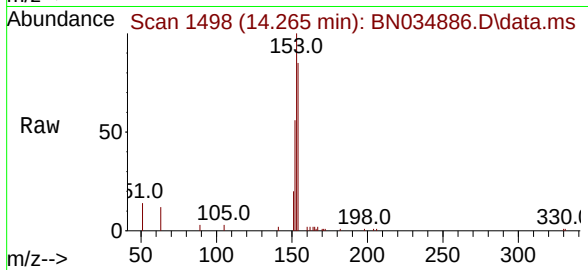




#17
Acenaphthene
Concen: 0.192 ng
RT: 14.265 min Scan# 1498
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

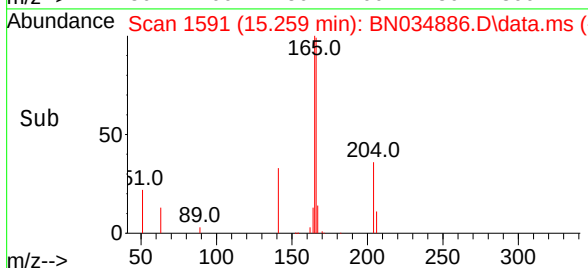
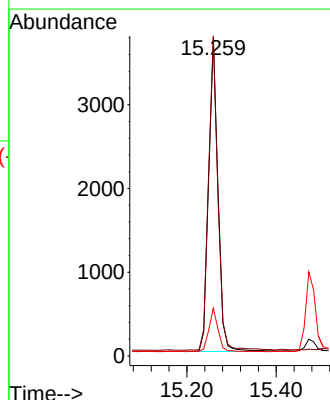
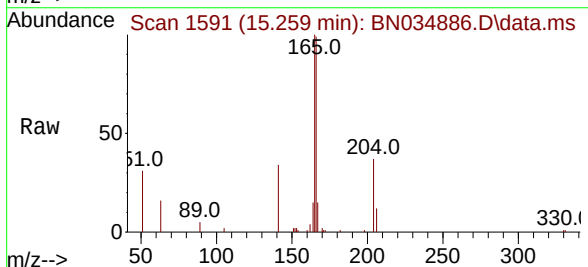
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

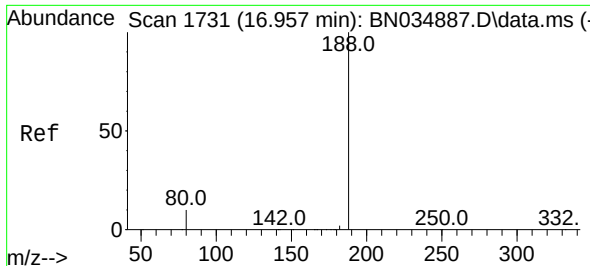
Tgt Ion:154 Resp: 4347
Ion Ratio Lower Upper
154 100
153 115.9 92.2 138.2
152 65.2 51.1 76.7



#18
Fluorene
Concen: 0.193 ng
RT: 15.259 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:166 Resp: 5429
Ion Ratio Lower Upper
166 100
165 99.6 79.5 119.3
167 13.6 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.957 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

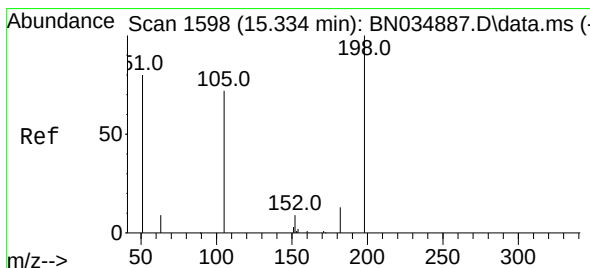
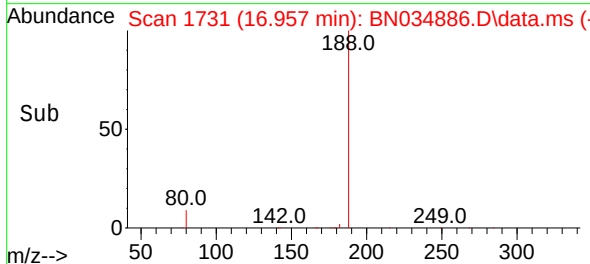
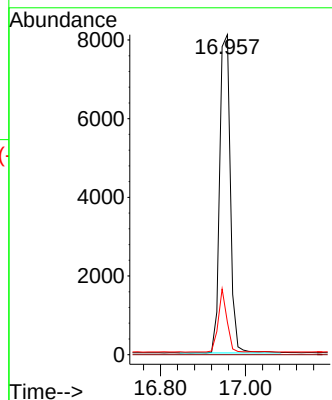
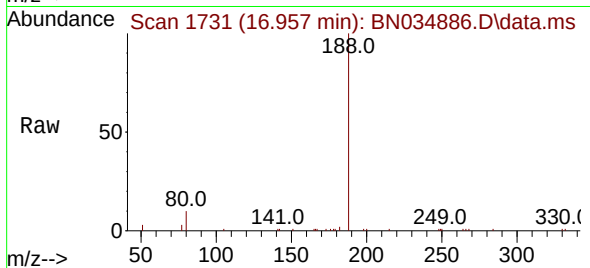
Tgt Ion:188 Resp: 14024

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 8.6 12.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.203 ng

RT: 15.334 min Scan# 1598

Delta R.T. 0.000 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

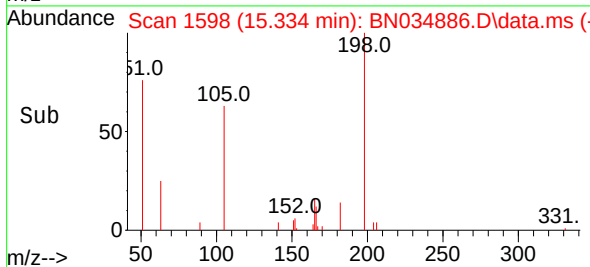
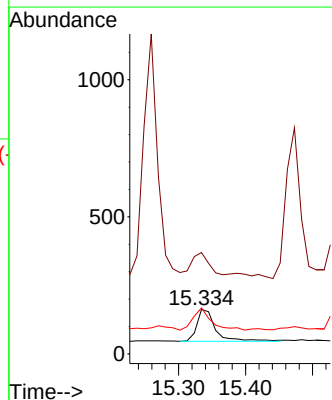
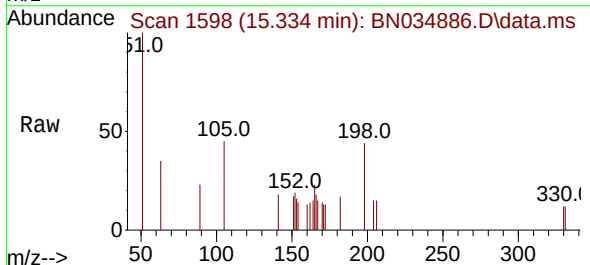
Tgt Ion:198 Resp: 229

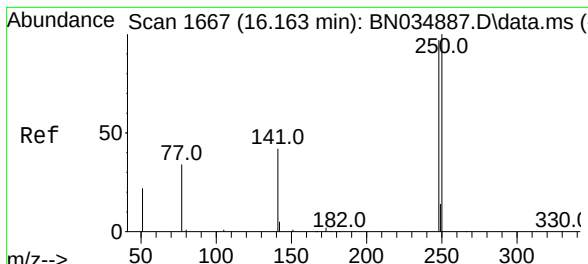
Ion Ratio Lower Upper

198 100

51 228.4 141.8 212.8#

105 103.7 75.6 113.4

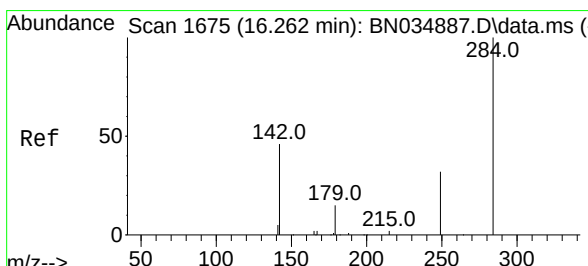
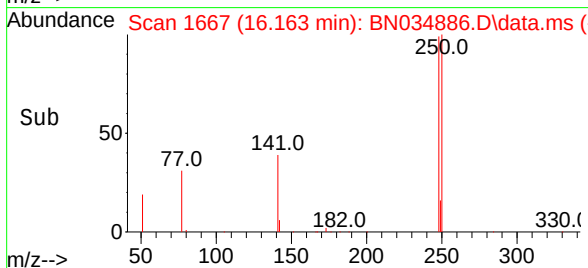
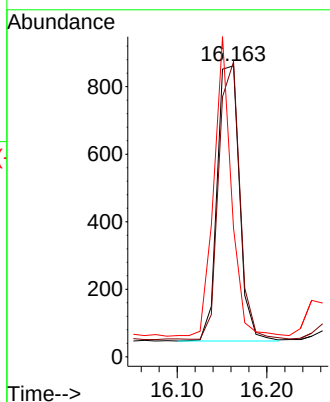
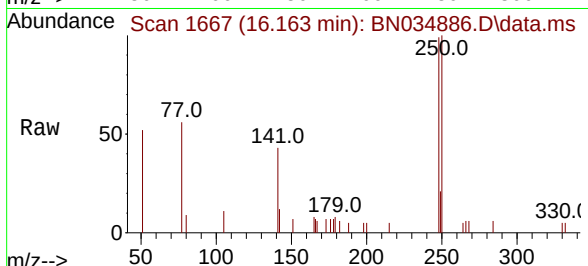




#21
4-Bromophenyl-phenylether
Concen: 0.189 ng
RT: 16.163 min Scan# 1667
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

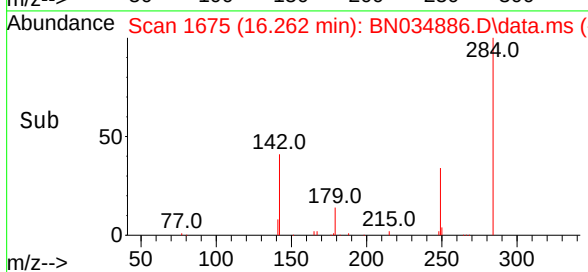
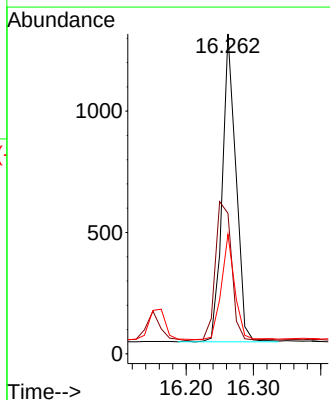
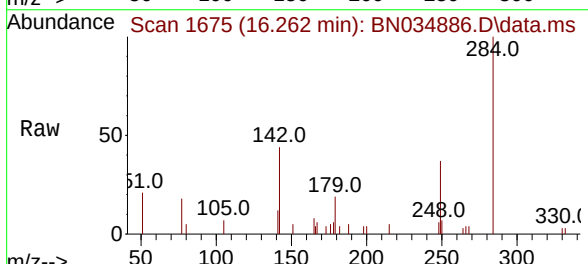
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

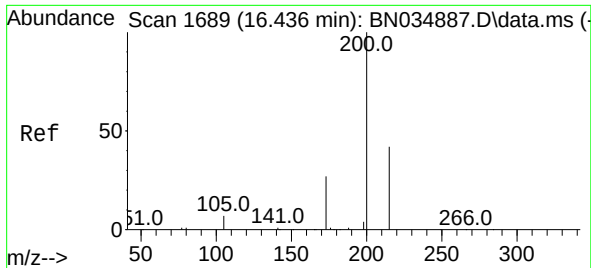
Tgt Ion:	248	Resp:	1410
Ion Ratio	Lower	Upper	
248	100		
250	101.4	82.2	123.4
141	44.1	36.2	54.2



#22
Hexachlorobenzene
Concen: 0.198 ng
RT: 16.262 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:	284	Resp:	1785
Ion Ratio	Lower	Upper	
284	100		
142	54.0	43.4	65.2
249	33.5	25.8	38.6

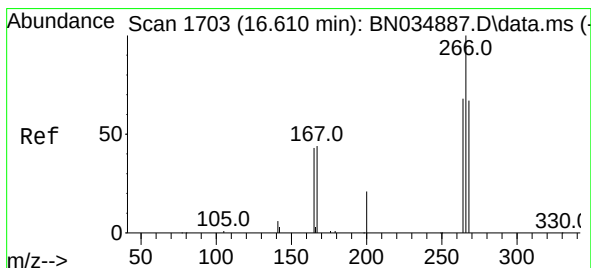
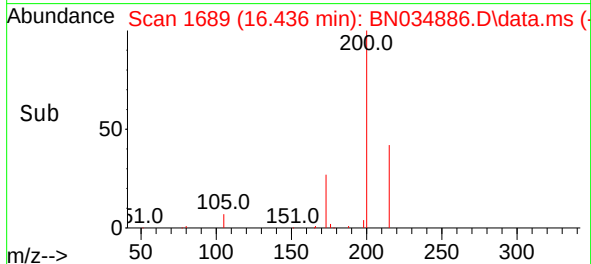
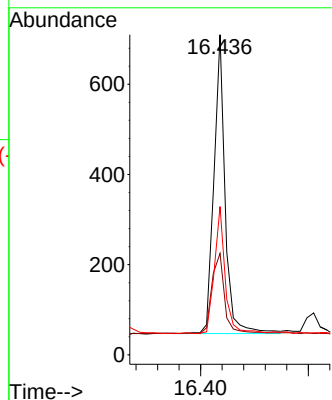
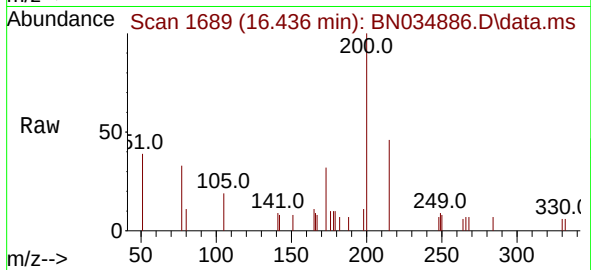




#23
Atrazine
Concen: 0.177 ng
RT: 16.436 min Scan# 1689
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

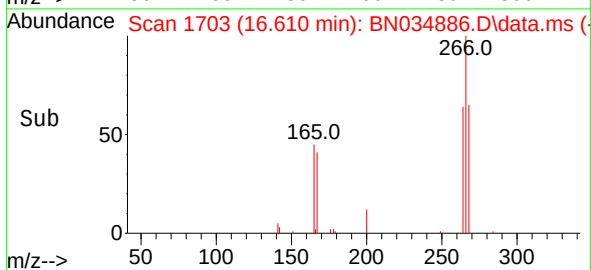
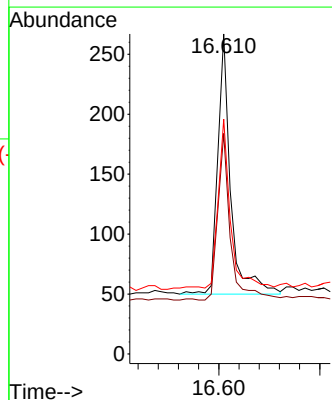
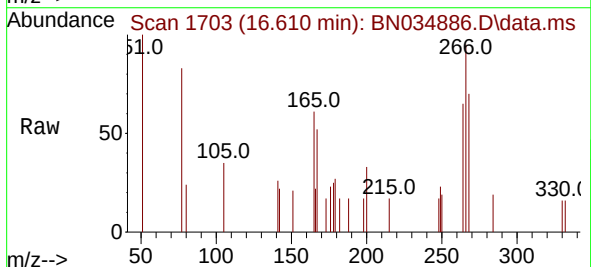
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

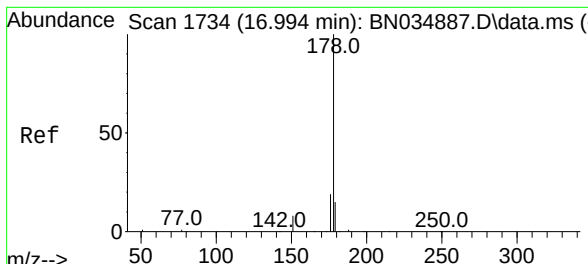
Tgt Ion:	200	Resp:	957
Ion Ratio	Lower	Upper	
200	100		
173	31.7	23.4	35.2
215	46.3	35.4	53.0



#24
Pentachlorophenol
Concen: 0.205 ng
RT: 16.610 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:	266	Resp:	384
Ion Ratio	Lower	Upper	
266	100		
264	62.2	51.3	76.9
268	64.6	53.0	79.6

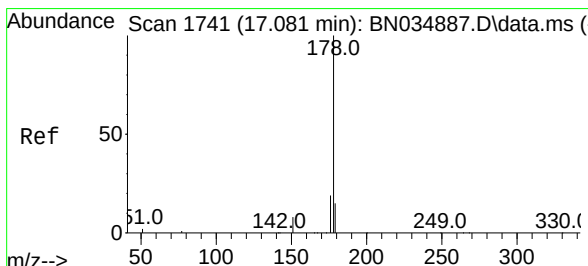
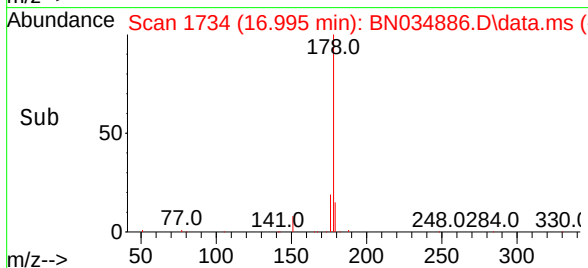
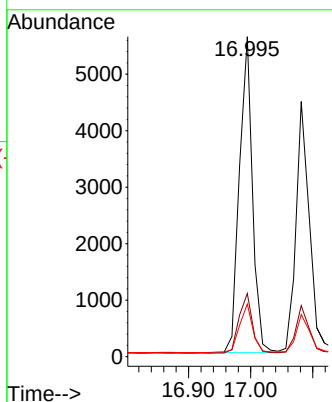
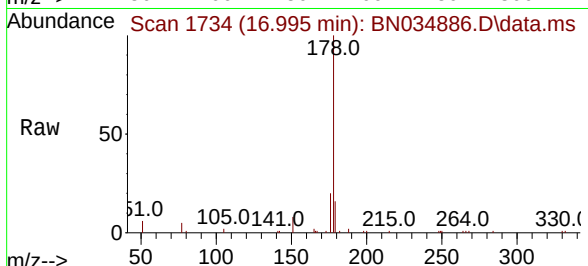




#25
Phenanthrene
Concen: 0.190 ng
RT: 16.995 min Scan# 1734
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

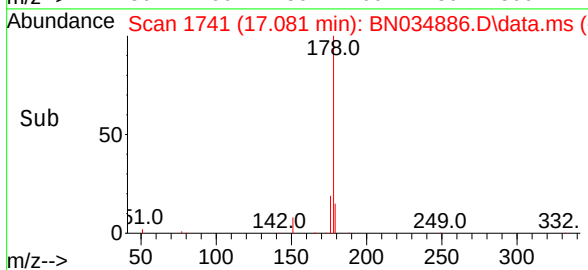
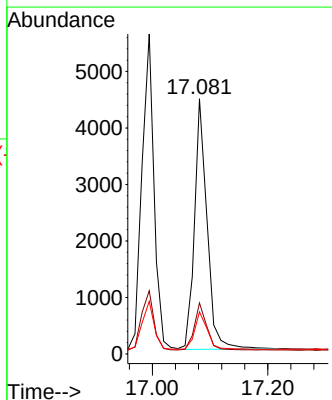
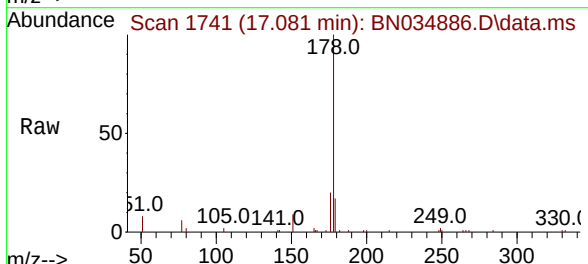
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

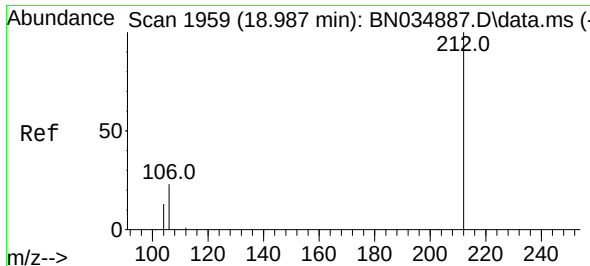
Tgt Ion:	178	Resp:	8193
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.5	23.3
179	15.5	12.2	18.2



#26
Anthracene
Concen: 0.182 ng
RT: 17.081 min Scan# 1741
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:	178	Resp:	6756
Ion Ratio	Lower	Upper	
178	100		
176	18.7	15.0	22.6
179	15.2	12.1	18.1

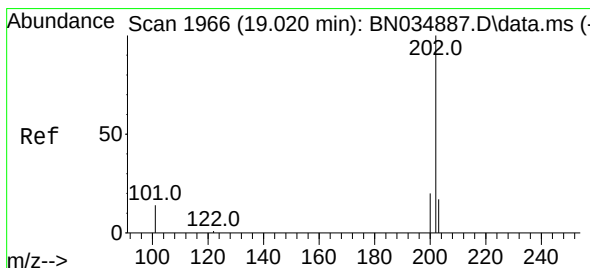
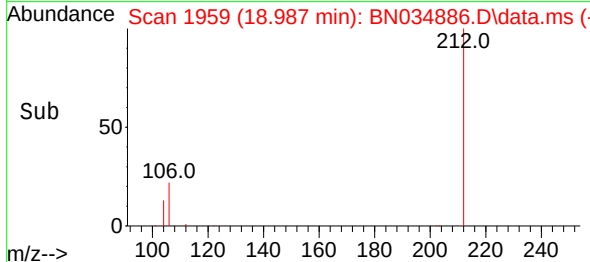
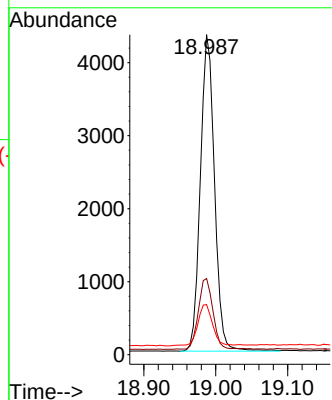
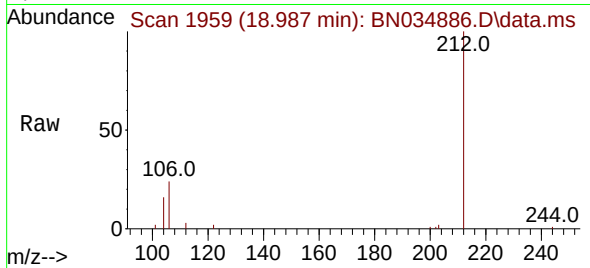




#27
Fluoranthene-d10
Concen: 0.187 ng
RT: 18.987 min Scan# 1959
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

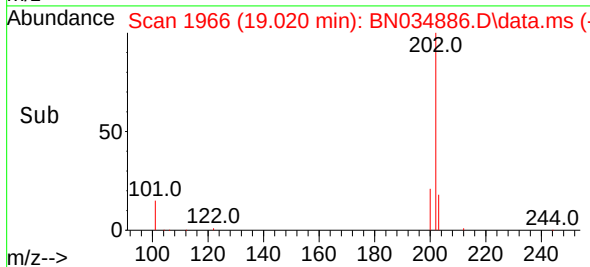
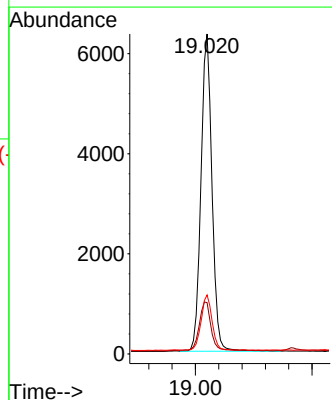
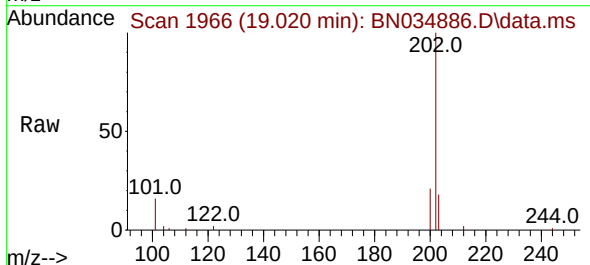
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

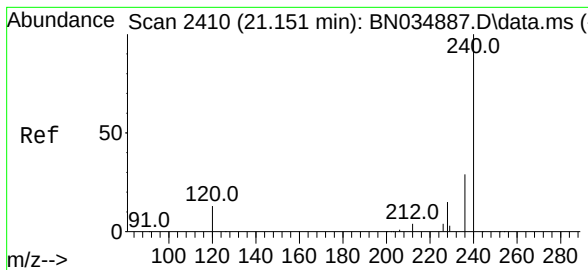
Tgt Ion:212 Resp: 5926
Ion Ratio Lower Upper
212 100
106 22.6 18.2 27.4
104 13.8 10.6 15.8



#28
Fluoranthene
Concen: 0.183 ng
RT: 19.020 min Scan# 1966
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:202 Resp: 8296
Ion Ratio Lower Upper
202 100
101 16.7 12.7 19.1
203 17.1 13.7 20.5

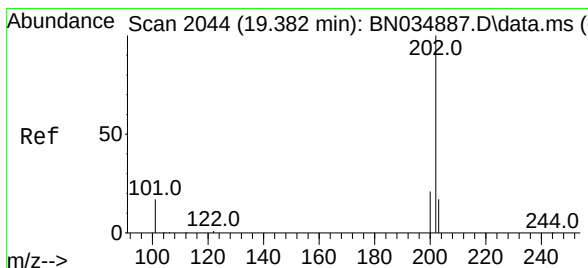
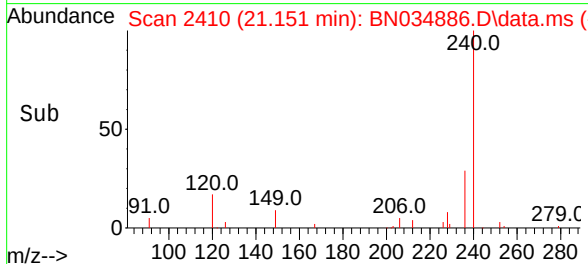
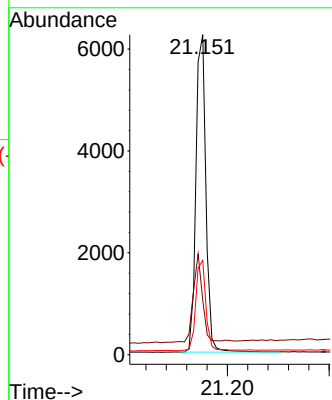
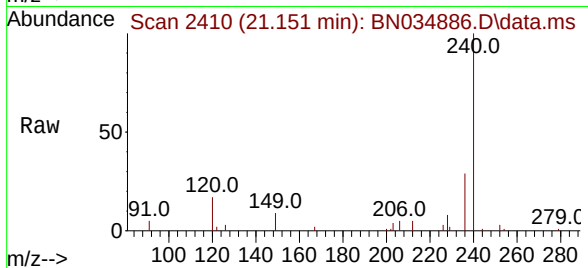




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.151 min Scan# 2410
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

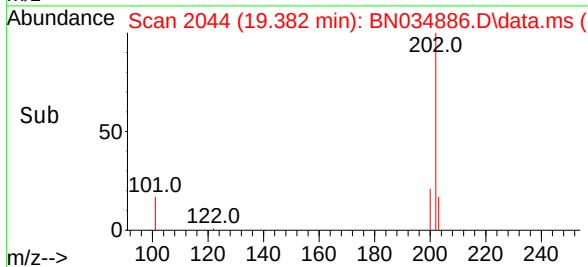
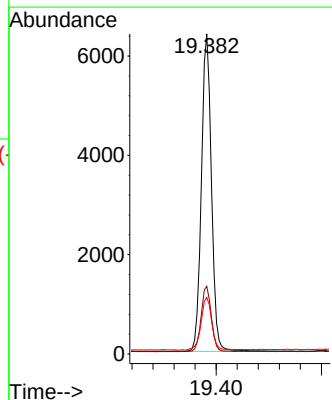
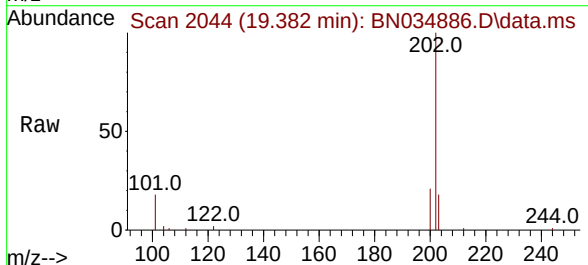
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

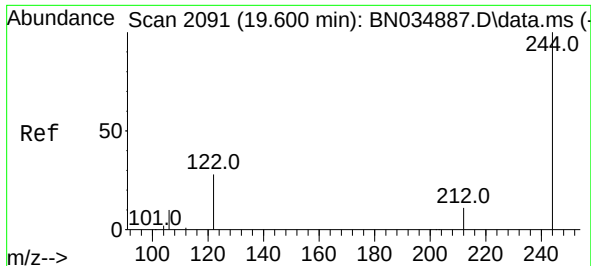
Tgt Ion:	240	Resp:	8450
Ion Ratio	Lower	Upper	
240	100		
120	17.0	13.8	20.8
236	29.5	23.8	35.6



#30
Pyrene
Concen: 0.198 ng
RT: 19.382 min Scan# 2044
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:	202	Resp:	8470
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.8	25.2
203	17.7	14.1	21.1

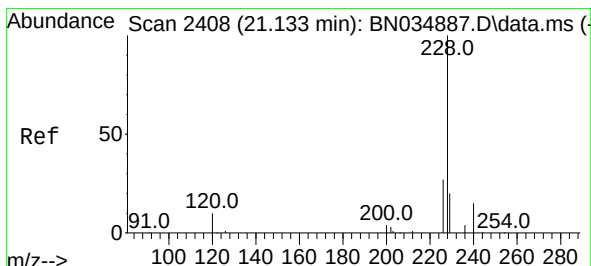
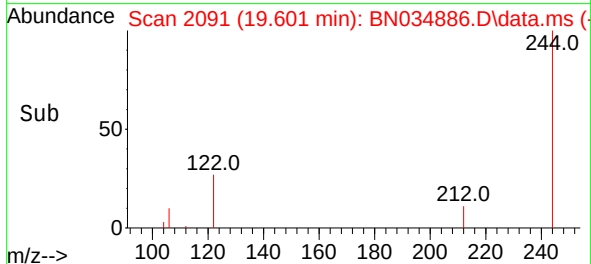
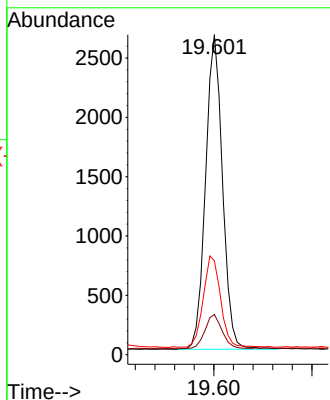
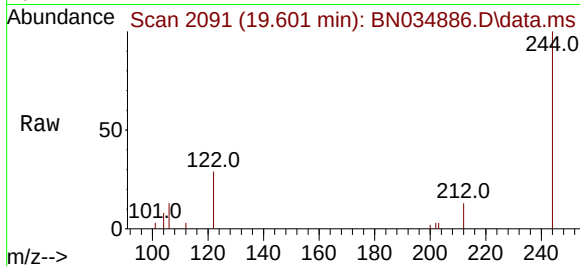




#31
 Terphenyl-d14
 Concen: 0.200 ng
 RT: 19.601 min Scan# 2091
 Delta R.T. 0.000 min
 Lab File: BN034886.D
 Acq: 07 Nov 2024 10:48

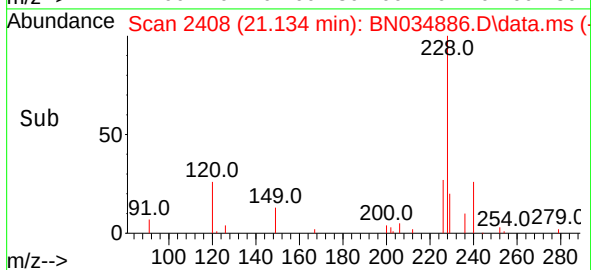
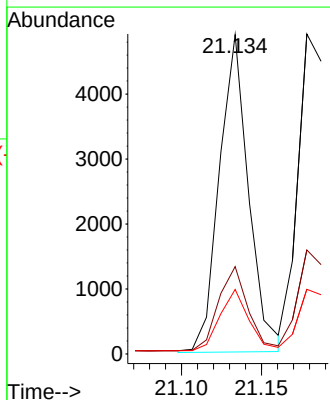
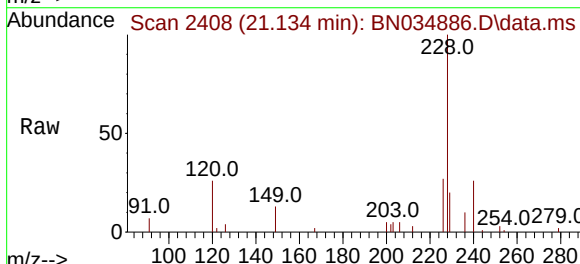
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

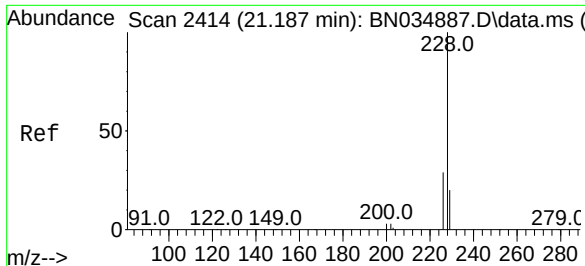
Tgt Ion:	244	Resp:	3169
Ion Ratio	Lower	Upper	
244	100		
212	12.5	9.4	14.0
122	29.3	23.0	34.4



#32
 Benzo(a)anthracene
 Concen: 0.189 ng
 RT: 21.134 min Scan# 2408
 Delta R.T. 0.000 min
 Lab File: BN034886.D
 Acq: 07 Nov 2024 10:48

Tgt Ion:	228	Resp:	6220
Ion Ratio	Lower	Upper	
228	100		
226	27.3	22.2	33.2
229	20.2	16.0	24.0





#33

Chrysene

Concen: 0.198 ng

RT: 21.178 min Scan# 2413

Delta R.T. -0.009 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

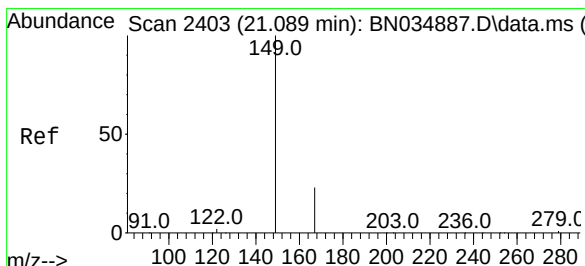
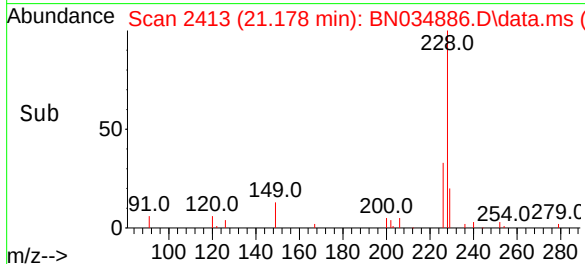
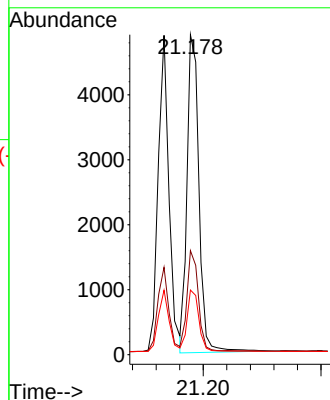
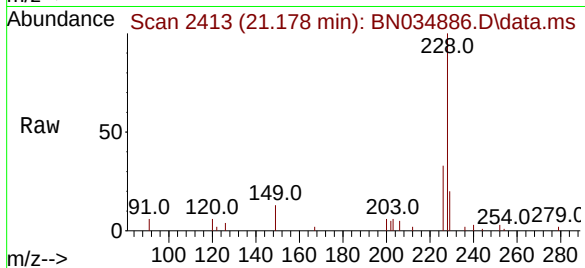
Tgt Ion:228 Resp: 6897

Ion Ratio Lower Upper

228 100

226 32.5 23.7 35.5

229 20.2 16.3 24.5



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.195 ng

RT: 21.089 min Scan# 2403

Delta R.T. -0.000 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

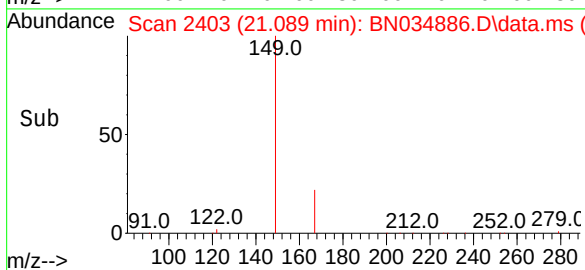
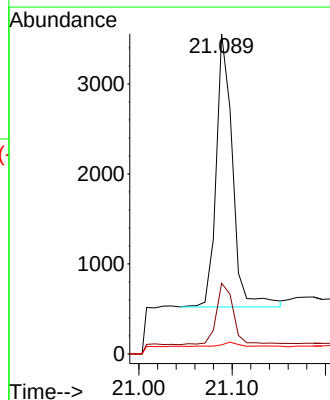
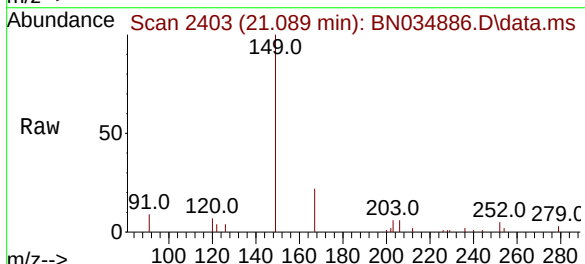
Tgt Ion:149 Resp: 3687

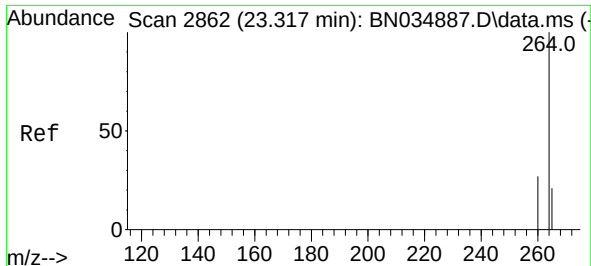
Ion Ratio Lower Upper

149 100

167 23.8 18.1 27.1

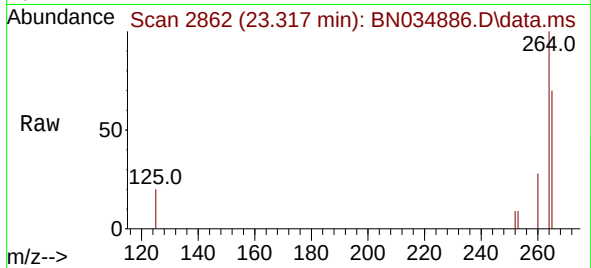
279 1.2 1.2 1.8



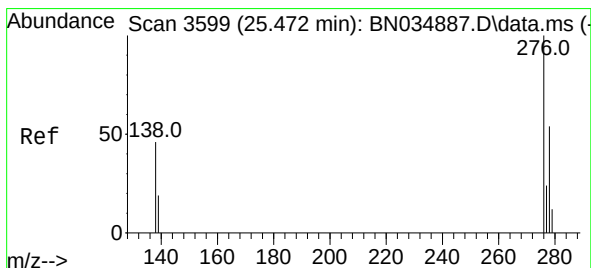
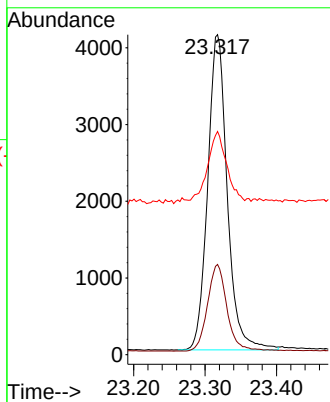
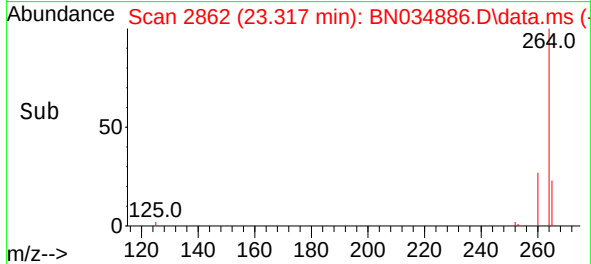


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.317 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

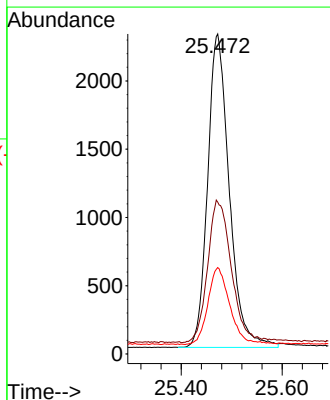
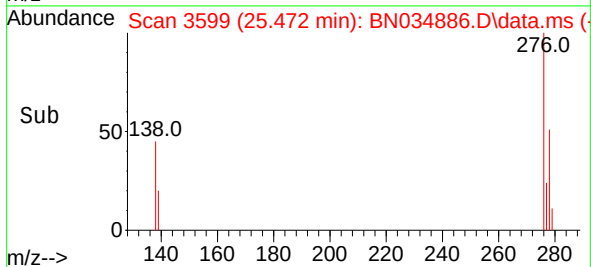
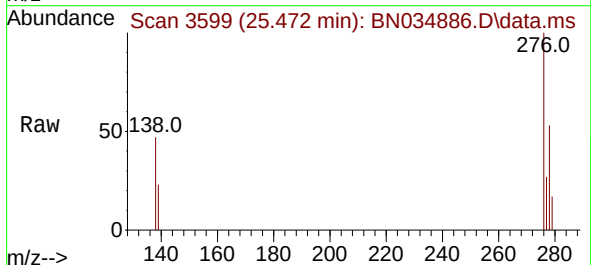


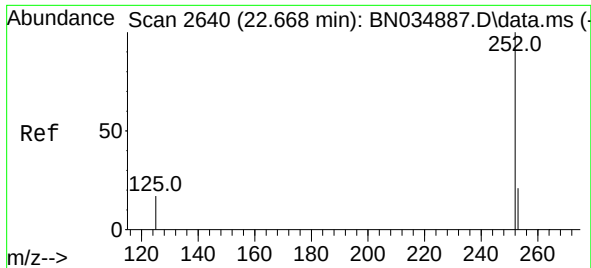
Tgt Ion:264 Resp: 7815
Ion Ratio Lower Upper
264 100
260 28.2 22.2 33.2
265 69.8 60.9 91.3



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.197 ng
RT: 25.472 min Scan# 3599
Delta R.T. 0.000 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:276 Resp: 6848
Ion Ratio Lower Upper
276 100
138 49.1 38.4 57.6
277 24.7 19.4 29.2

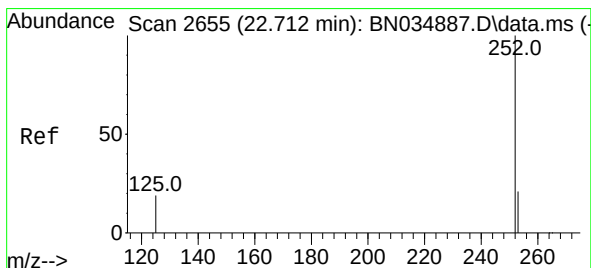
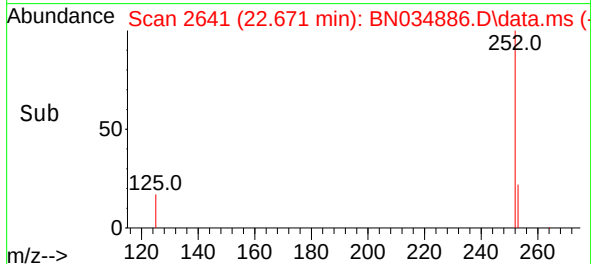
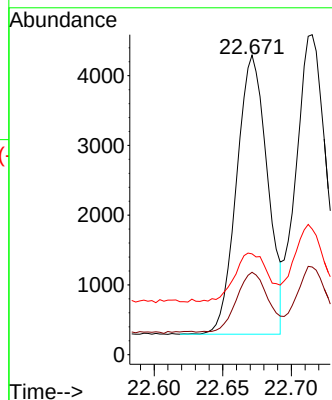
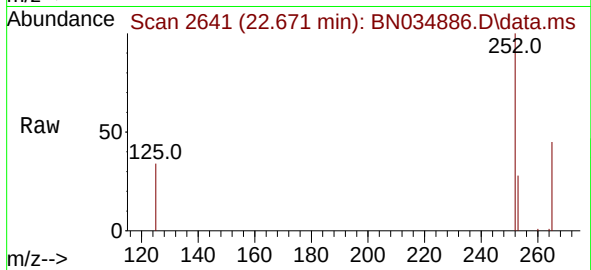




#37
Benzo(b)fluoranthene
Concen: 0.182 ng
RT: 22.671 min Scan# 2641
Delta R.T. 0.003 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

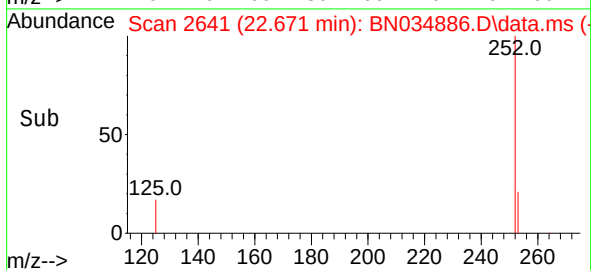
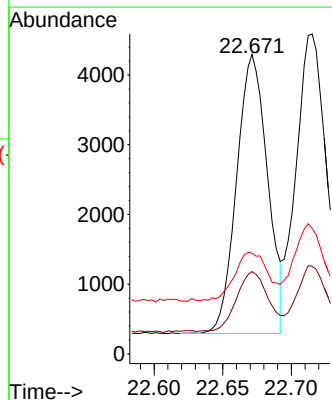
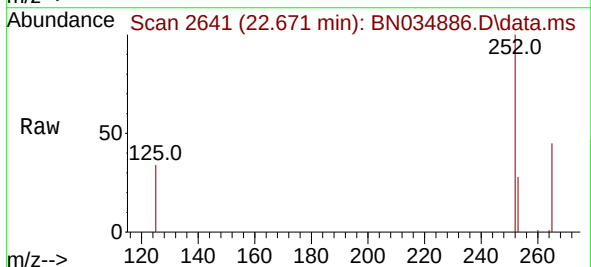
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

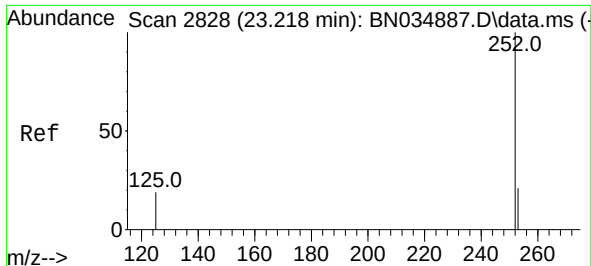
Tgt Ion:252 Resp: 6257
Ion Ratio Lower Upper
252 100
253 27.5 19.4 29.2
125 33.6 21.4 32.2#



#38
Benzo(k)fluoranthene
Concen: 0.175 ng
RT: 22.671 min Scan# 2641
Delta R.T. -0.041 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Tgt Ion:252 Resp: 6257
Ion Ratio Lower Upper
252 100
253 27.5 19.8 29.8
125 33.6 22.6 33.8





#39

Benzo(a)pyrene

Concen: 0.179 ng

RT: 23.221 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

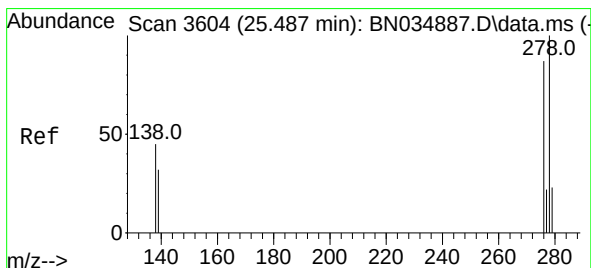
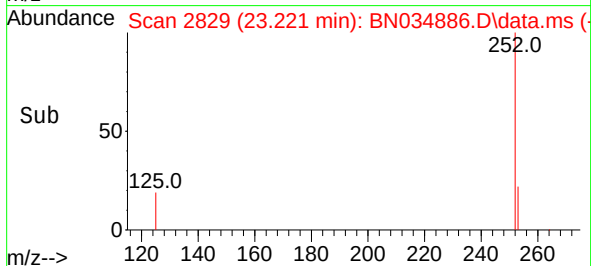
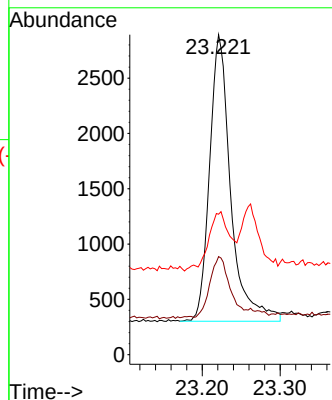
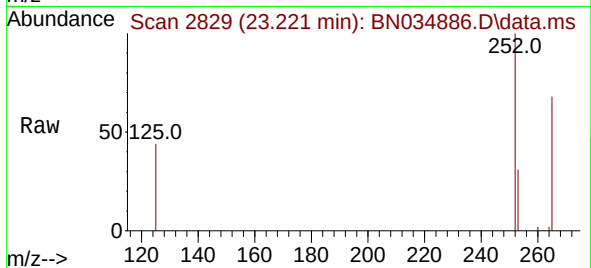
Tgt Ion:252 Resp: 4882

Ion Ratio Lower Upper

252 100

253 30.7 21.4 32.2

125 43.9 27.8 41.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.197 ng

RT: 25.487 min Scan# 3604

Delta R.T. 0.000 min

Lab File: BN034886.D

Acq: 07 Nov 2024 10:48

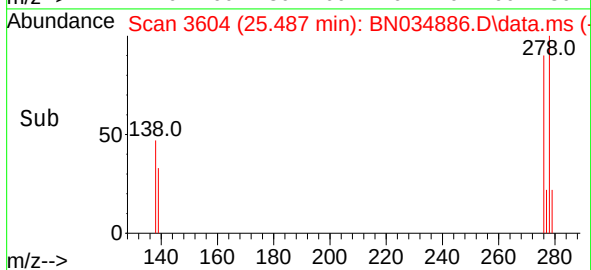
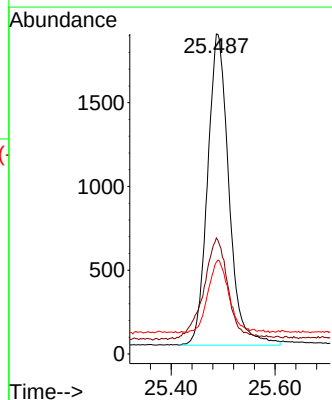
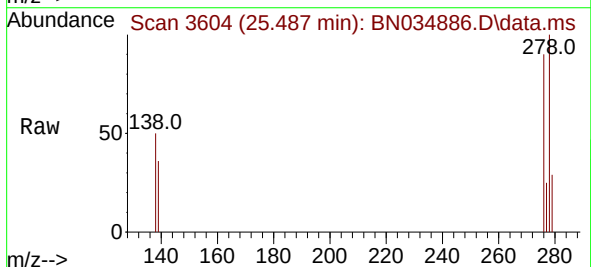
Tgt Ion:278 Resp: 5297

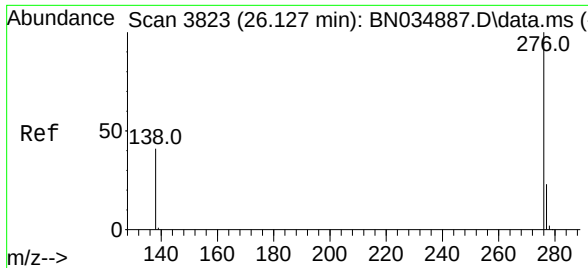
Ion Ratio Lower Upper

278 100

139 36.3 27.2 40.8

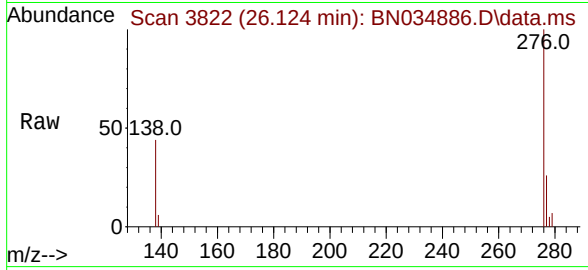
279 28.7 21.4 32.0



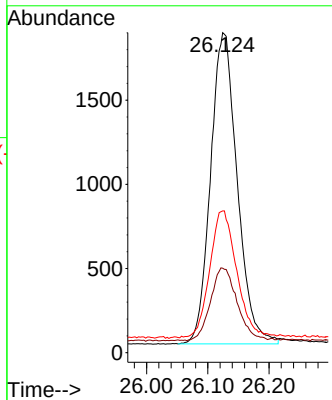
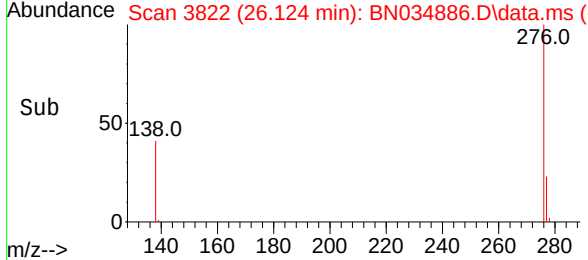


#41
Benzo(g,h,i)perylene
Concen: 0.196 ng
RT: 26.124 min Scan# 30
Delta R.T. -0.003 min
Lab File: BN034886.D
Acq: 07 Nov 2024 10:48

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:	276	Resp:	5602
Ion	Ratio	Lower	Upper
276	100		
277	26.4	20.2	30.2
138	44.3	33.9	50.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
 Data File : BN034888.D
 Acq On : 07 Nov 2024 12:00
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Nov 07 14:41:27 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 07 14:34:20 2024
 Response via : Initial Calibration

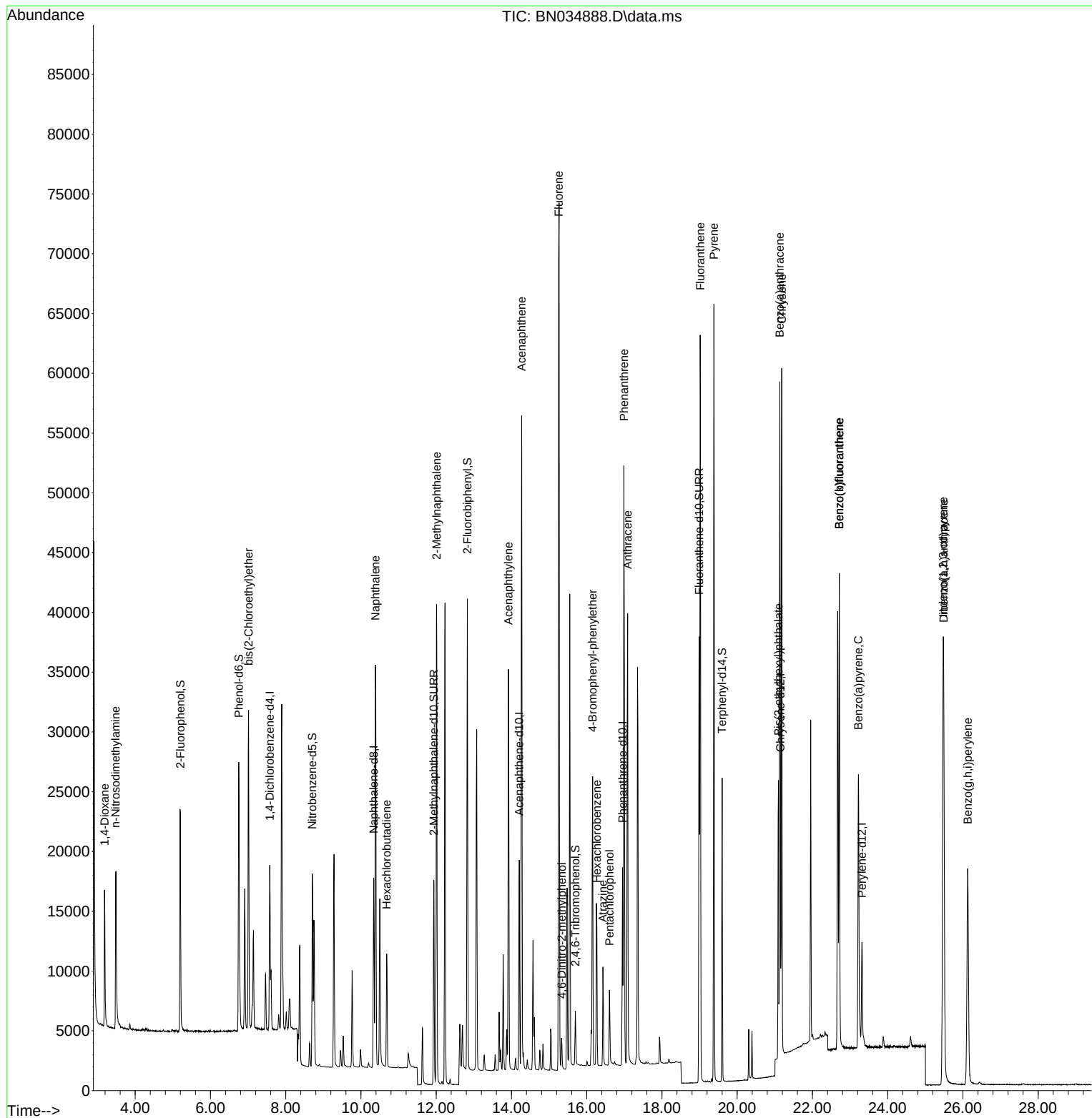
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	6371	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	19428	0.400	ng	0.00
13) Acenaphthene-d10	14.208	164	9092	0.400	ng	0.00
19) Phenanthrene-d10	16.952	188	18851	0.400	ng	# 0.00
29) Chrysene-d12	21.149	240	12731	0.400	ng	0.00
35) Perylene-d12	23.315	264	10897	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.199	112	15040	0.847	ng	0.00
5) Phenol-d6	6.752	99	20160	0.855	ng	0.00
8) Nitrobenzene-d5	8.707	82	12697	0.838	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	22498	0.850	ng	0.00
14) 2,4,6-Tribromophenol	15.698	330	2202	0.849	ng	0.00
15) 2-Fluorobiphenyl	12.829	172	32517	0.847	ng	0.00
27) Fluoranthene-d10	18.990	212	36597	0.861	ng	0.00
31) Terphenyl-d14	19.598	244	19795	0.830	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.184	88	6753	0.839	ng	99
3) n-Nitrosodimethylamine	3.480	42	9597	0.884	ng	98
6) bis(2-Chloroethyl)ether	7.012	93	17693	0.870	ng	100
9) Naphthalene	10.383	128	45870	0.851	ng	100
10) Hexachlorobutadiene	10.682	225	7343	0.855	ng	# 97
12) 2-Methylnaphthalene	12.011	142	28153	0.853	ng	99
16) Acenaphthylene	13.919	152	36993	0.844	ng	100
17) Acenaphthene	14.272	154	26000	0.857	ng	97
18) Fluorene	15.255	166	32251	0.853	ng	100
20) 4,6-Dinitro-2-methylph...	15.341	198	1509	0.821	ng	# 36
21) 4-Bromophenyl-phenylether	16.157	248	8294	0.825	ng	# 86
22) Hexachlorobenzene	16.269	284	10091	0.834	ng	98
23) Atrazine	16.430	200	6114	0.840	ng	# 93
24) Pentachlorophenol	16.604	266	2792	0.836	ng	98
25) Phenanthrene	16.989	178	49126	0.850	ng	100
26) Anthracene	17.088	178	42271	0.848	ng	100
28) Fluoranthene	19.017	202	53297	0.876	ng	100
30) Pyrene	19.380	202	53636	0.832	ng	100
32) Benzo(a)anthracene	21.131	228	42348	0.853	ng	99
33) Chrysene	21.185	228	45020	0.857	ng	99
34) Bis(2-ethylhexyl)phtha...	21.095	149	22429	0.787	ng	98
36) Indeno(1,2,3-cd)pyrene	25.473	276	40211	0.828	ng	100
37) Benzo(b)fluoranthene	22.713	252	43204	0.902	ng	93
38) Benzo(k)fluoranthene	22.713	252	43204	0.865	ng	# 92
39) Benzo(a)pyrene	23.222	252	32141	0.845	ng	# 86
40) Dibenzo(a,h)anthracene	25.488	278	31006	0.825	ng	96
41) Benzo(g,h,i)perylene	26.128	276	32362	0.812	ng	99

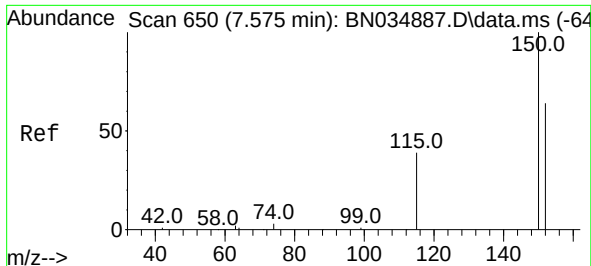
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN034888.D
Acq On : 07 Nov 2024 12:00
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 07 14:41:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 14:34:20 2024
Response via : Initial Calibration

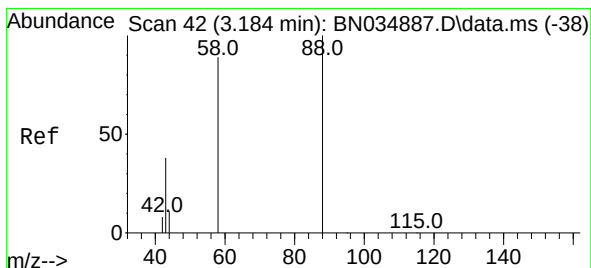
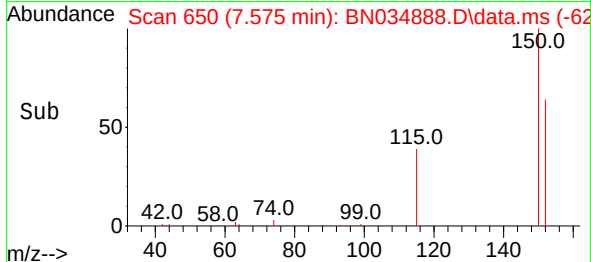
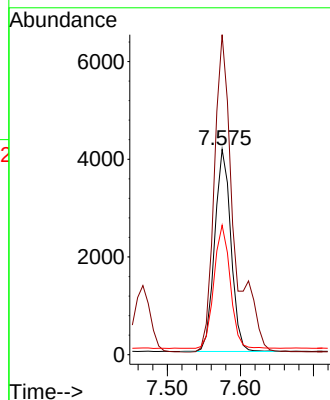
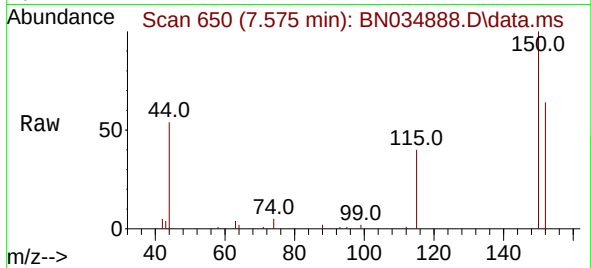




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

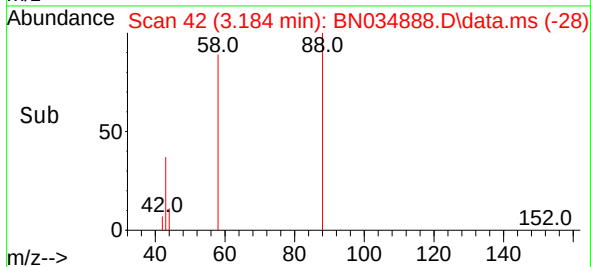
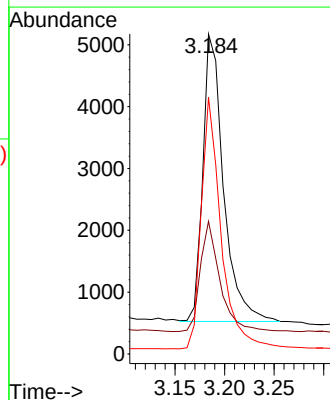
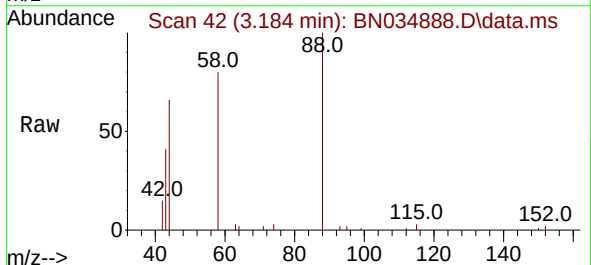
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

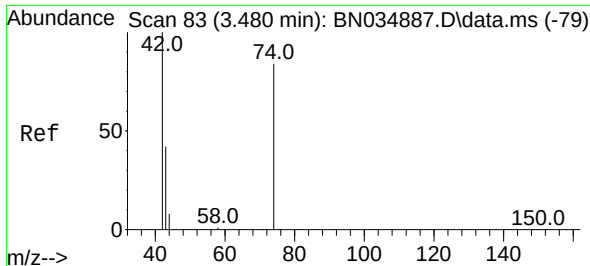
Tgt Ion:152 Resp: 6371
Ion Ratio Lower Upper
152 100
150 155.9 124.4 186.6
115 63.1 50.5 75.7



#2
1,4-Dioxane
Concen: 0.839 ng
RT: 3.184 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion: 88 Resp: 6753
Ion Ratio Lower Upper
88 100
43 36.6 28.2 42.2
58 83.7 67.1 100.7

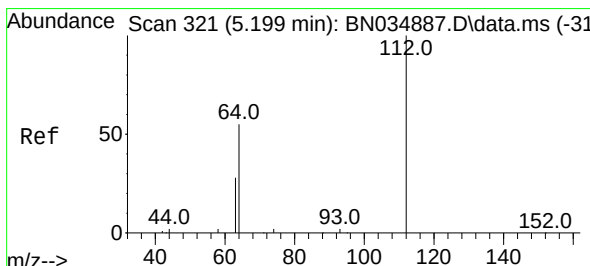
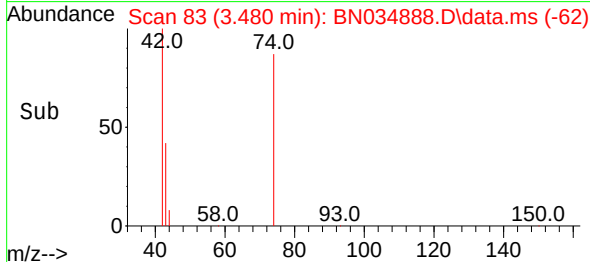
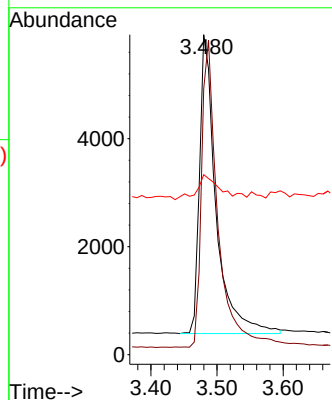
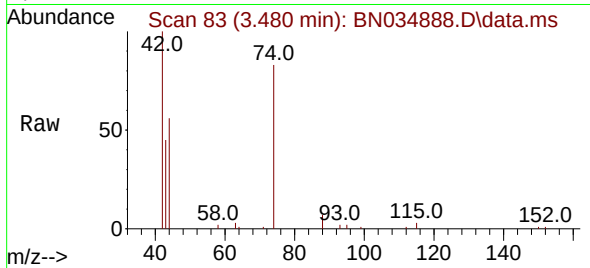




#3
 n-Nitrosodimethylamine
 Concen: 0.884 ng
 RT: 3.480 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: BN034888.D
 Acq: 07 Nov 2024 12:00

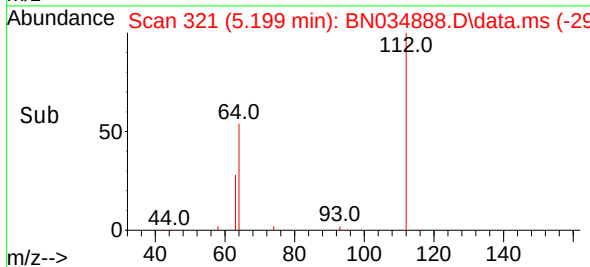
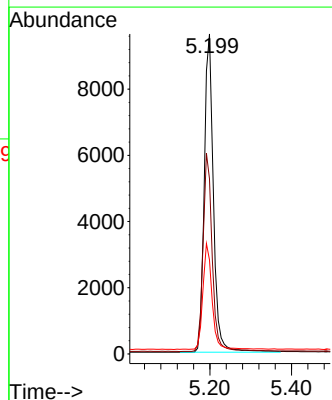
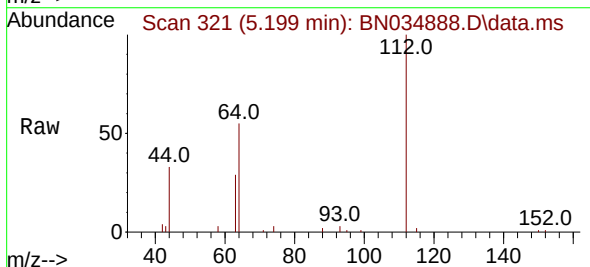
Instrument :
 BNA_N
 ClientSampleId :
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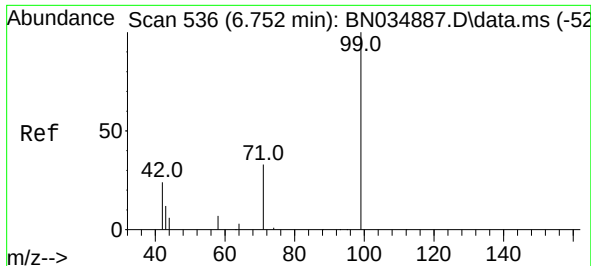
Tgt Ion: 42 Resp: 9597
 Ion Ratio Lower Upper
 42 100
 74 102.7 83.4 125.2
 44 11.5 8.6 12.8



#4
 2-Fluorophenol
 Concen: 0.847 ng
 RT: 5.199 min Scan# 321
 Delta R.T. 0.000 min
 Lab File: BN034888.D
 Acq: 07 Nov 2024 12:00

Tgt Ion: 112 Resp: 15040
 Ion Ratio Lower Upper
 112 100
 64 62.3 49.6 74.4
 63 33.2 26.3 39.5

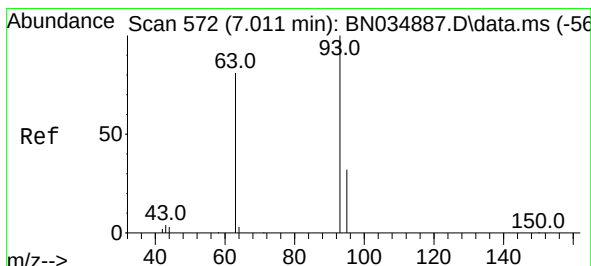
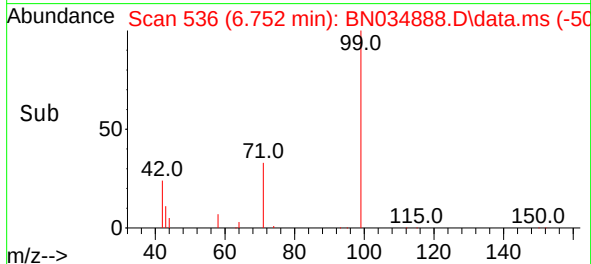
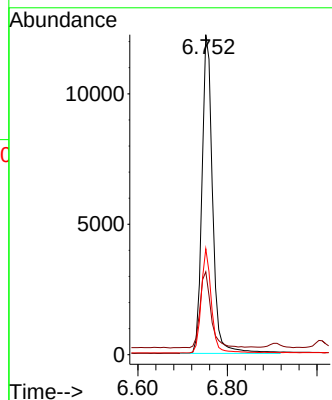
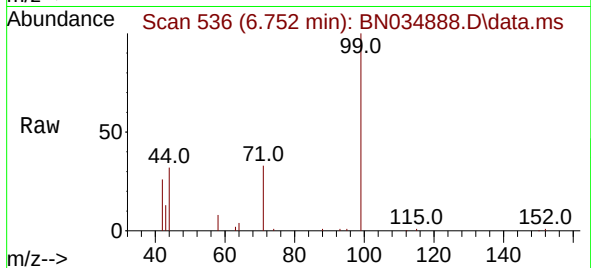




#5
Phenol-d6
Concen: 0.855 ng
RT: 6.752 min Scan# 536
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

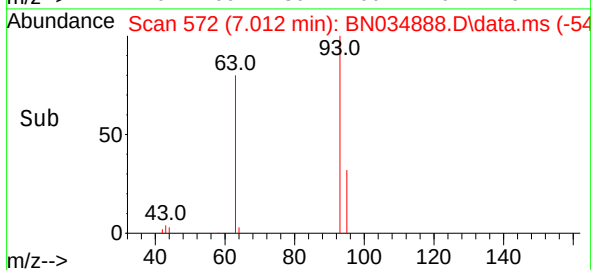
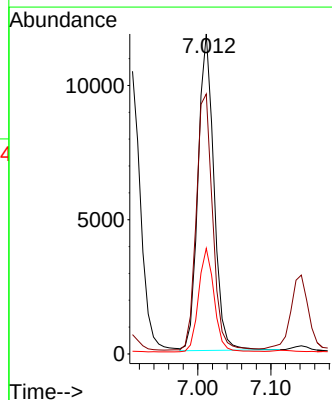
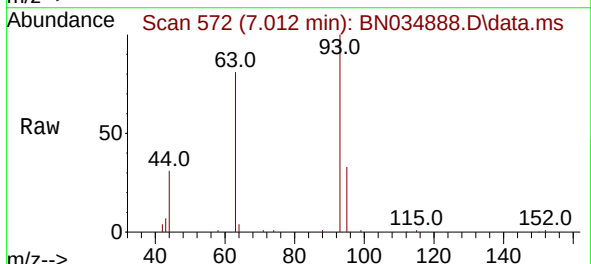
Instrument :
BNA_N
ClientSampleId :
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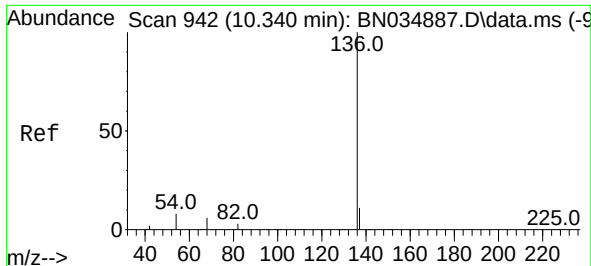
Tgt Ion:	99	Resp:	20160
Ion	Ratio	Lower	Upper
99	100		
42	25.2	20.2	30.2
71	31.4	25.4	38.0



#6
bis(2-Chloroethyl)ether
Concen: 0.870 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:	93	Resp:	17693
Ion	Ratio	Lower	Upper
93	100		
63	84.1	67.5	101.3
95	32.3	25.7	38.5

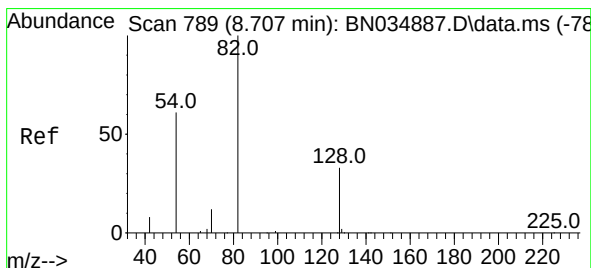
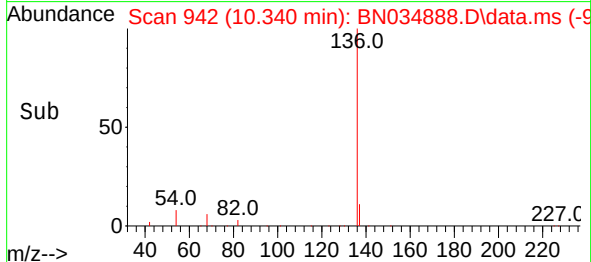
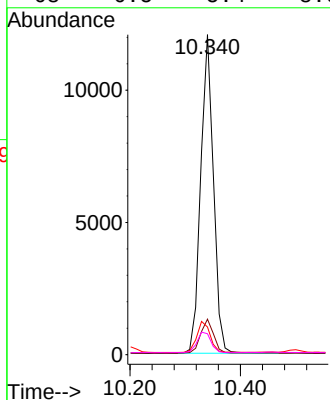
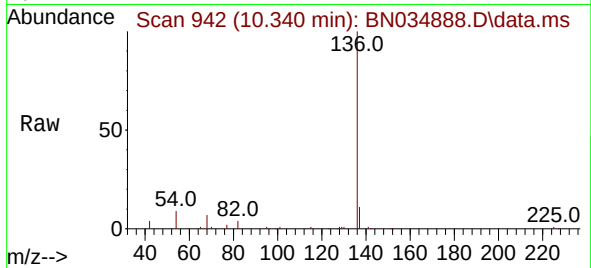




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

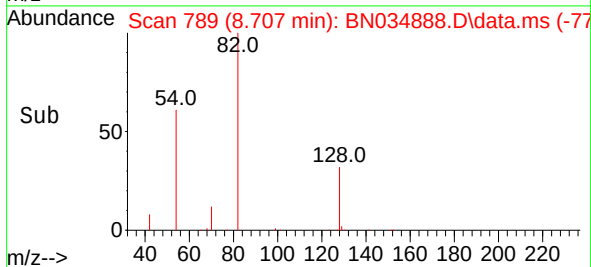
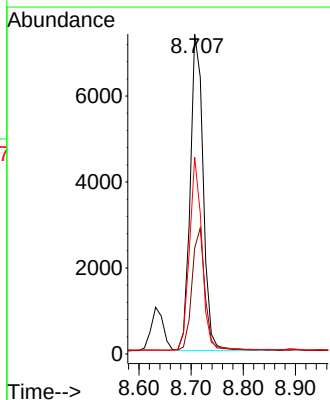
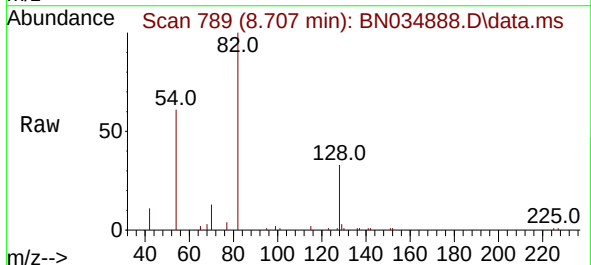
Instrument :
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ClientSampleId :
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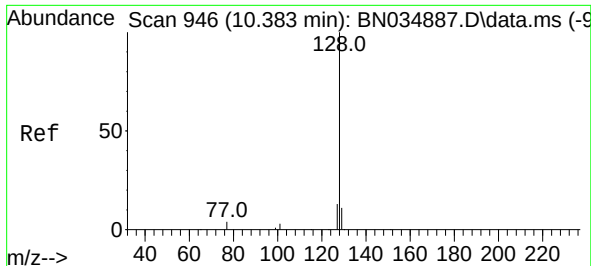
Tgt Ion:	136	Resp:	19428
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	8.6	6.9	10.3
68	6.5	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.838 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:	82	Resp:	12697
Ion Ratio	Lower	Upper	
82	100		
128	33.2	28.1	42.1
54	61.5	49.8	74.6

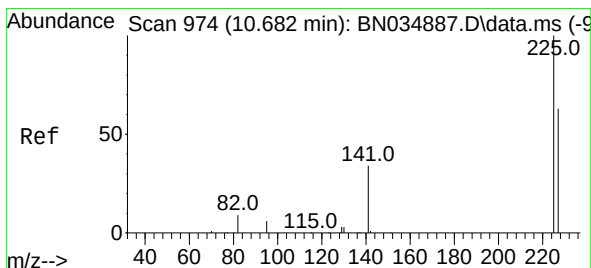
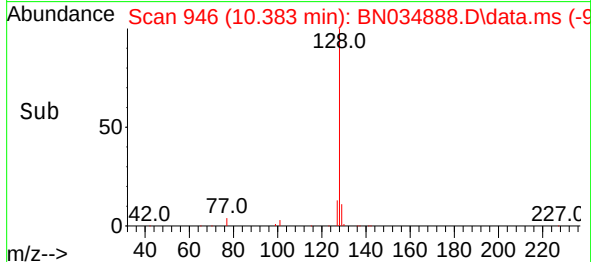
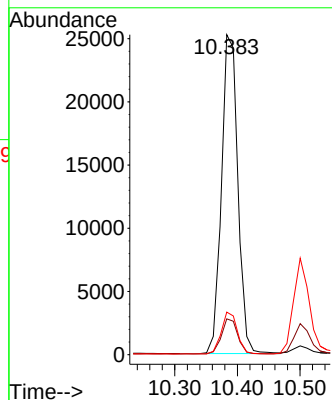
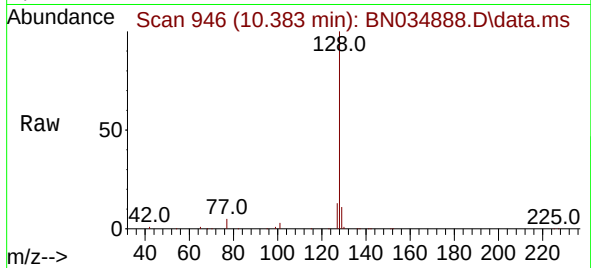




#9
Naphthalene
Concen: 0.851 ng
RT: 10.383 min Scan# 946
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

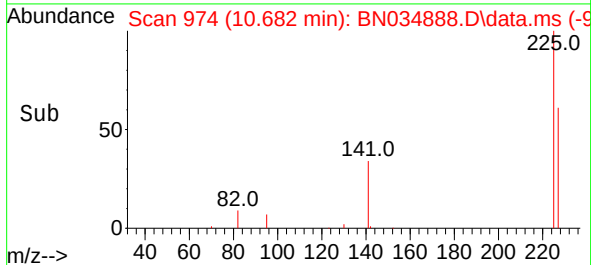
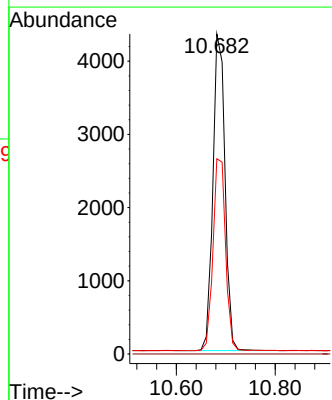
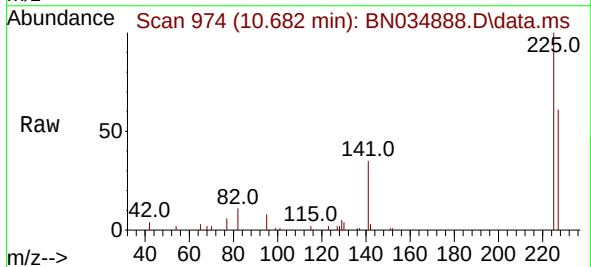
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ClientSampleId :
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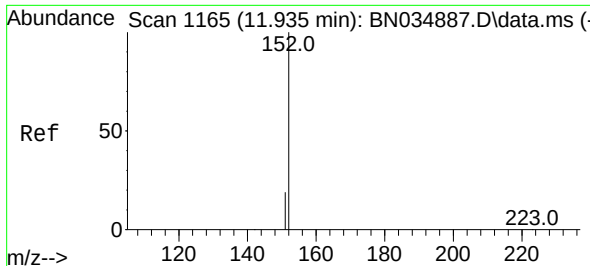
Tgt Ion:128 Resp: 45870
Ion Ratio Lower Upper
128 100
129 11.2 9.0 13.4
127 13.3 10.8 16.2



#10
Hexachlorobutadiene
Concen: 0.855 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:225 Resp: 7343
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.0 52.0 78.0

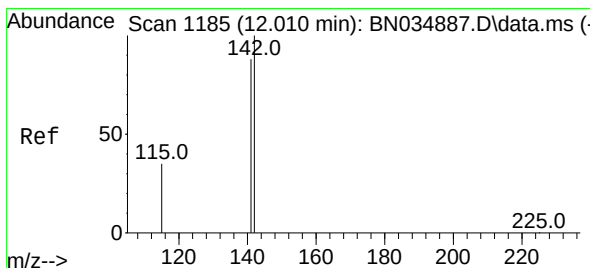
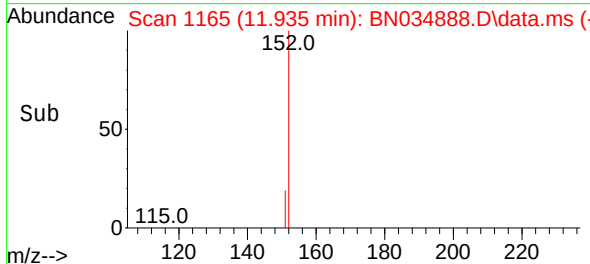
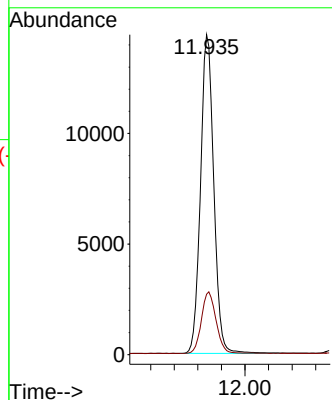
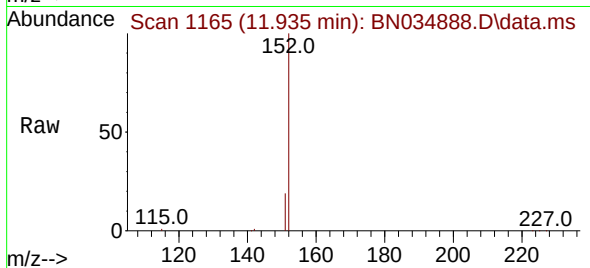




#11
2-Methylnaphthalene-d10
Concen: 0.850 ng
RT: 11.935 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

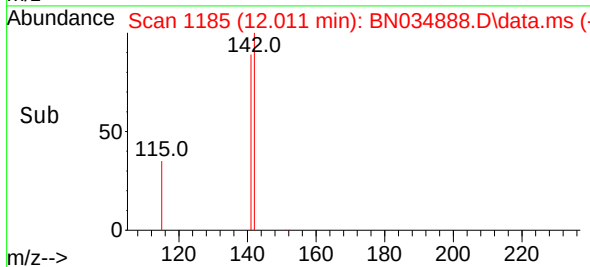
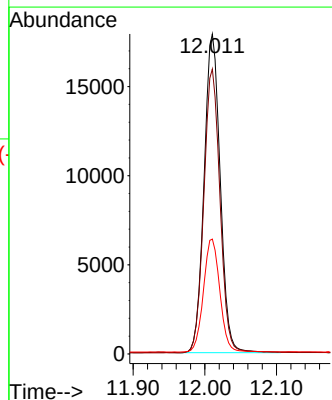
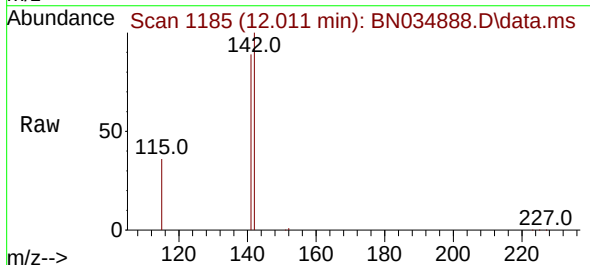
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ClientSampleId :
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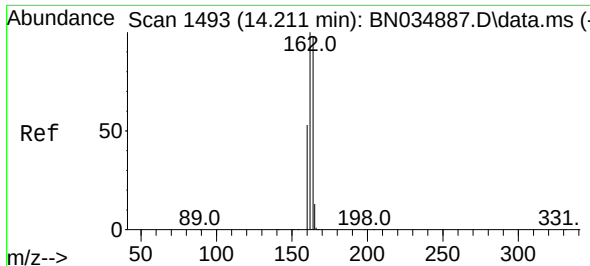
Tgt Ion:152 Resp: 22498
Ion Ratio Lower Upper
152 100
151 21.4 17.1 25.7



#12
2-Methylnaphthalene
Concen: 0.853 ng
RT: 12.011 min Scan# 1185
Delta R.T. 0.000 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:142 Resp: 28153
Ion Ratio Lower Upper
142 100
141 89.0 70.5 105.7
115 35.9 29.4 44.2

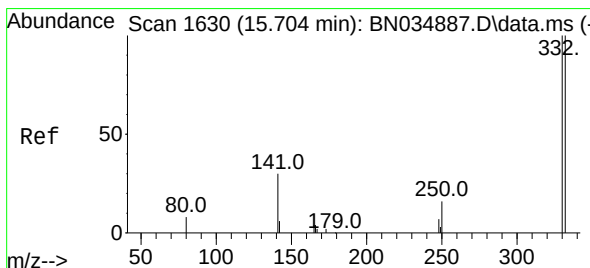
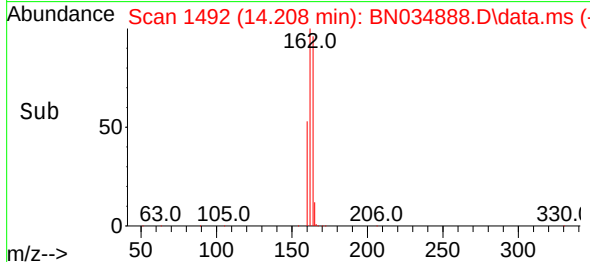
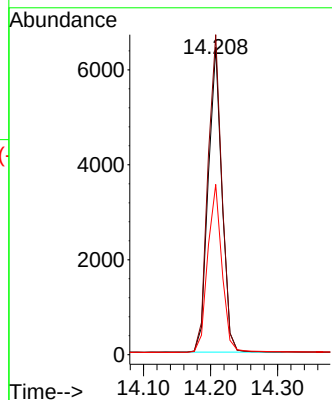
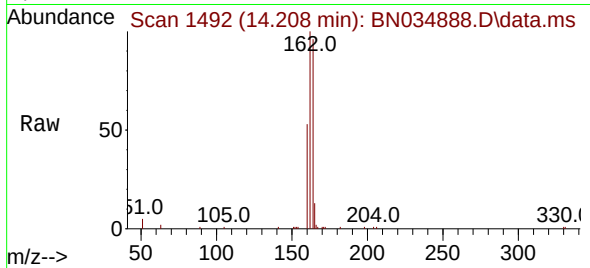




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.208 min Scan# 14
Delta R.T. -0.003 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

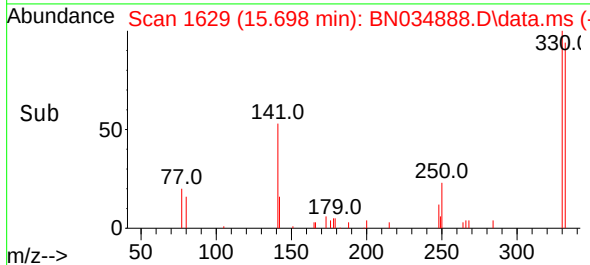
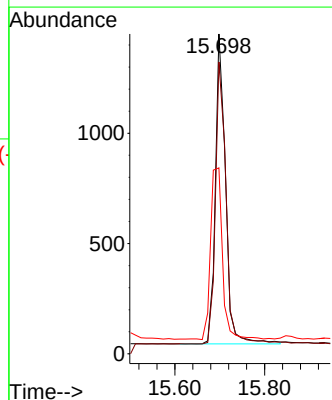
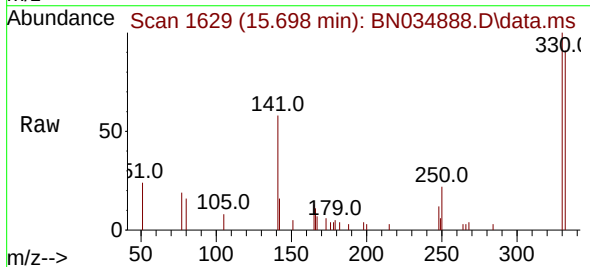
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ClientSampleId :
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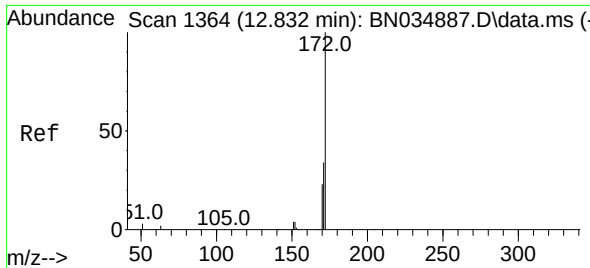
Tgt Ion:164 Resp: 9092
Ion Ratio Lower Upper
164 100
162 104.1 81.9 122.9
160 55.4 43.5 65.3



#14
2,4,6-Tribromophenol
Concen: 0.849 ng
RT: 15.698 min Scan# 1629
Delta R.T. -0.006 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:330 Resp: 2202
Ion Ratio Lower Upper
330 100
332 94.3 77.1 115.7
141 64.3 54.1 81.1



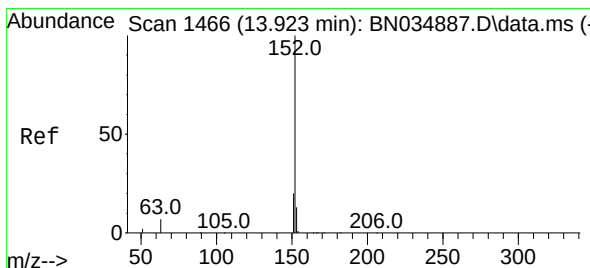
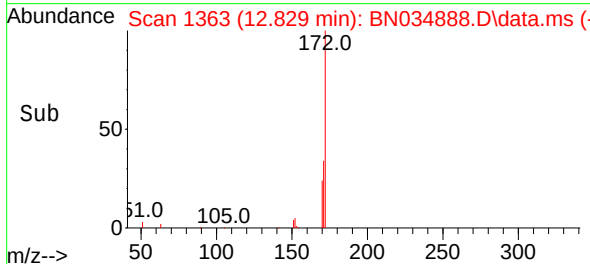
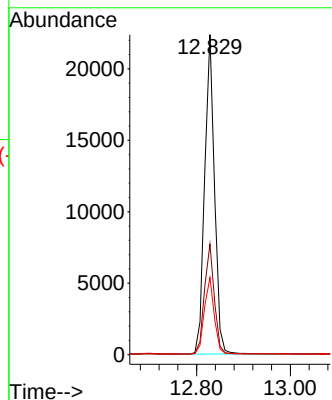
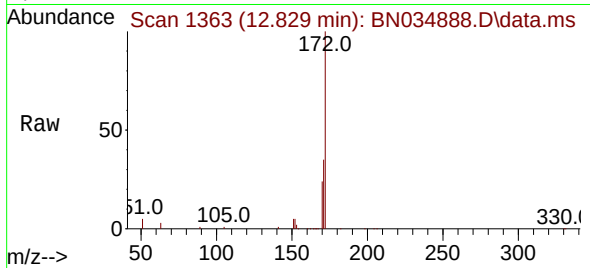


#15
2-Fluorobiphenyl
Concen: 0.847 ng
RT: 12.829 min Scan# 1465
Delta R.T. -0.004 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 32517

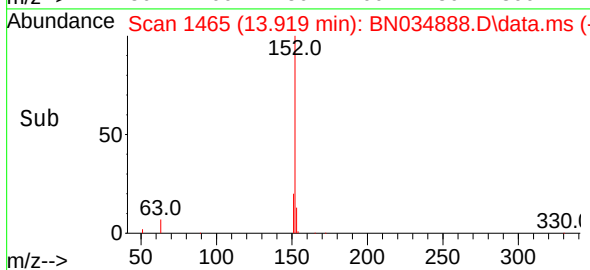
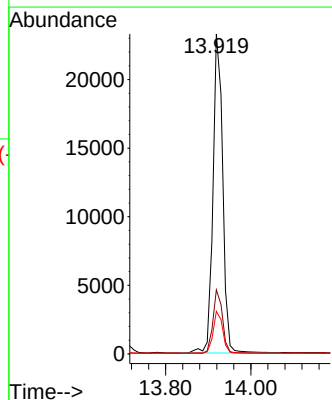
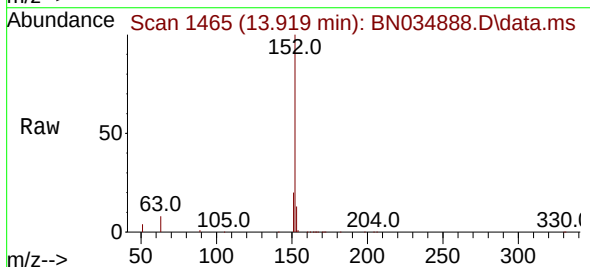
Ion	Ratio	Lower	Upper
172	100		
171	34.5	27.9	41.9
170	24.1	19.0	28.4

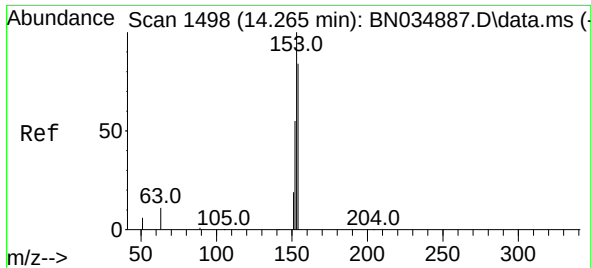


#16
Acenaphthylene
Concen: 0.844 ng
RT: 13.919 min Scan# 1465
Delta R.T. -0.004 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:152 Resp: 36993

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.2	22.8
153	12.9	10.4	15.6

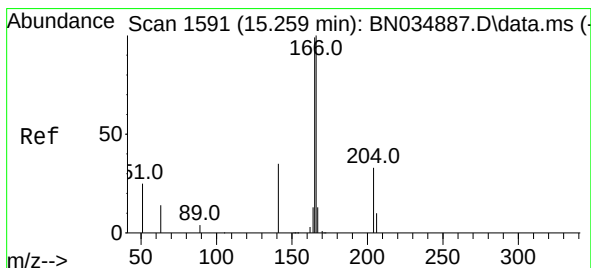
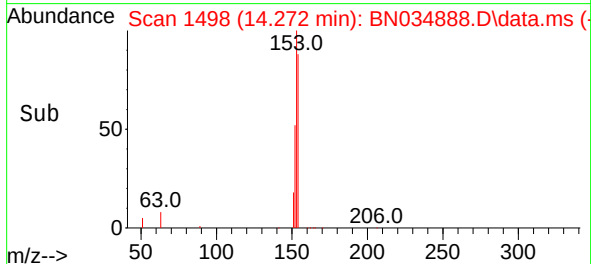
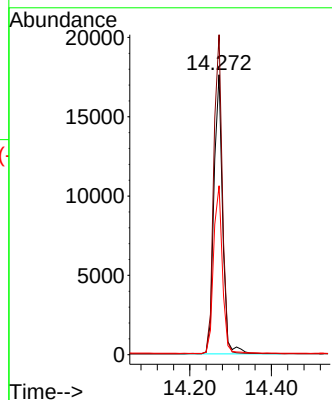
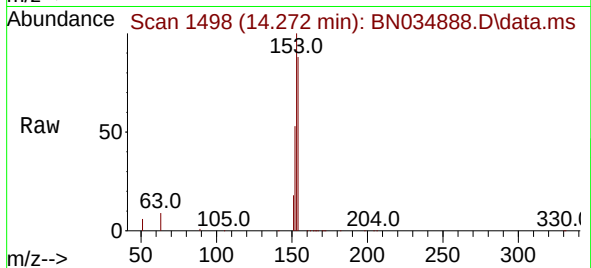




#17
Acenaphthene
Concen: 0.857 ng
RT: 14.272 min Scan# 1498
Delta R.T. 0.007 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

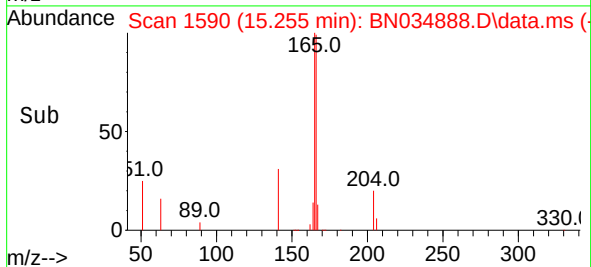
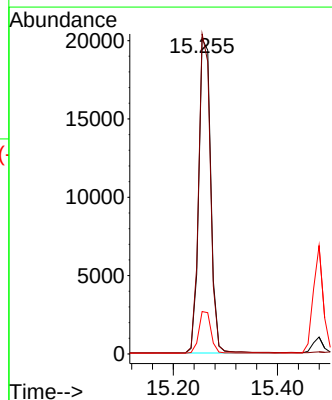
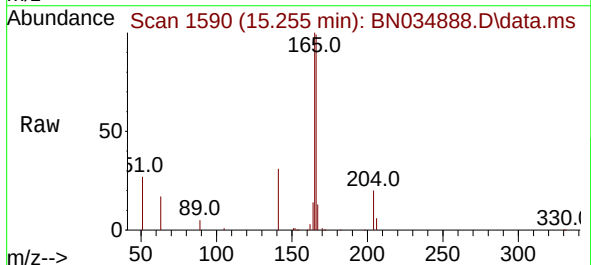
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

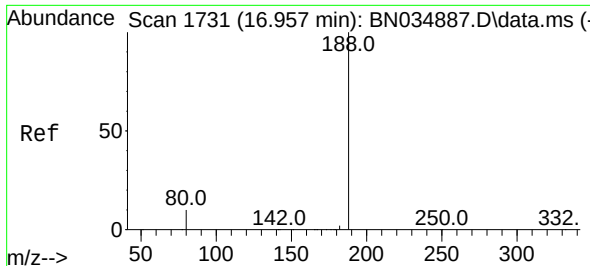
Tgt Ion:154 Resp: 26000
Ion Ratio Lower Upper
154 100
153 112.8 92.2 138.2
152 61.4 51.1 76.7



#18
Fluorene
Concen: 0.853 ng
RT: 15.255 min Scan# 1590
Delta R.T. -0.004 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:166 Resp: 32251
Ion Ratio Lower Upper
166 100
165 99.5 79.5 119.3
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.952 min Scan# 1

Delta R.T. -0.005 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

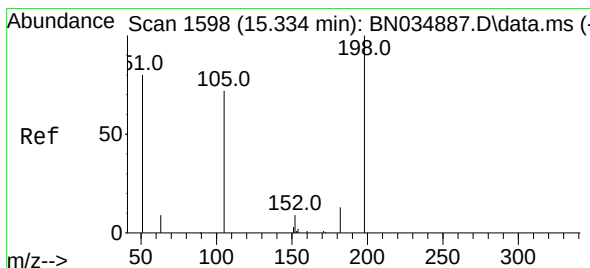
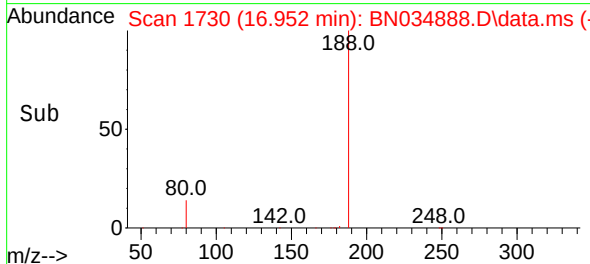
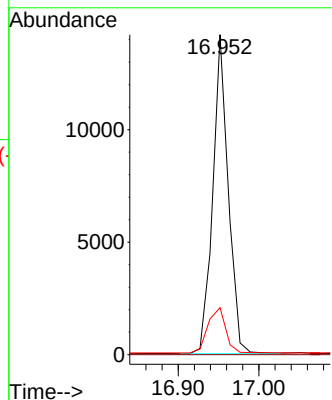
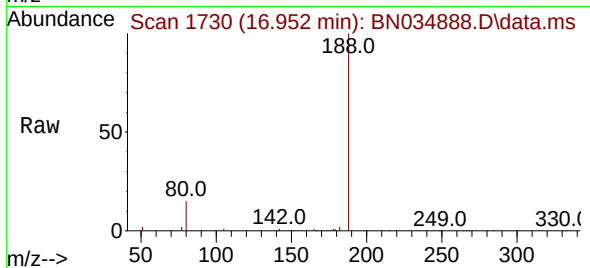
Tgt Ion:188 Resp: 18851

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.7 8.6 12.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.821 ng

RT: 15.341 min Scan# 1598

Delta R.T. 0.007 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

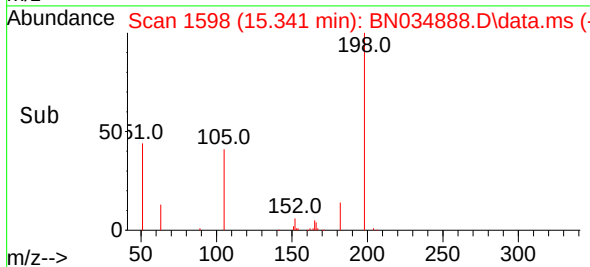
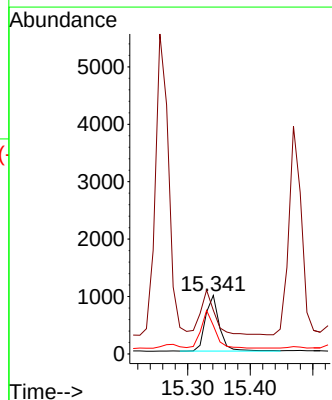
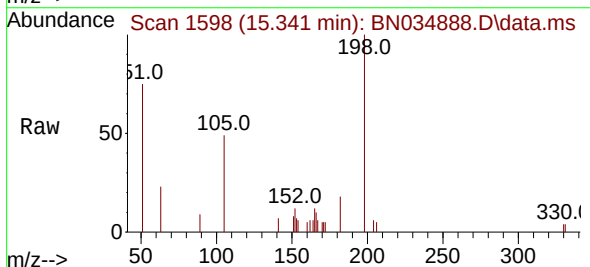
Tgt Ion:198 Resp: 1509

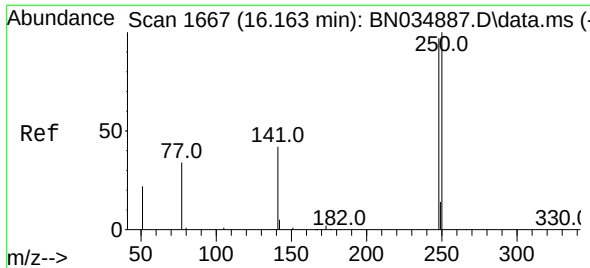
Ion Ratio Lower Upper

198 100

51 74.6 141.8 212.8#

105 48.7 75.6 113.4#

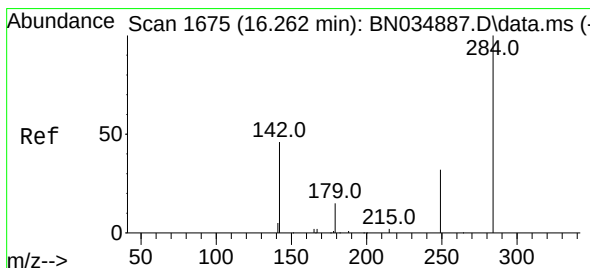
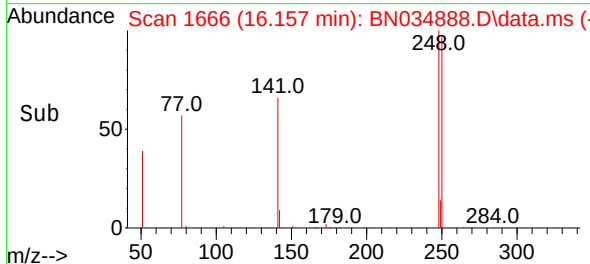
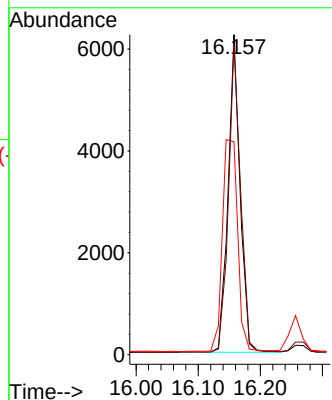
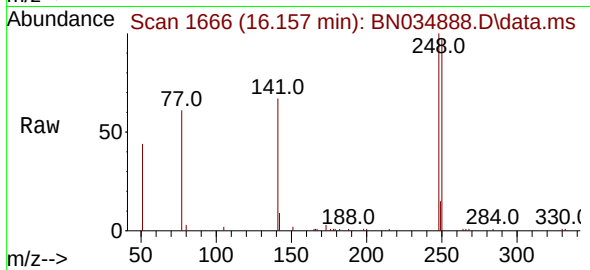




#21
4-Bromophenyl-phenylether
Concen: 0.825 ng
RT: 16.157 min Scan# 1666
Delta R.T. -0.005 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

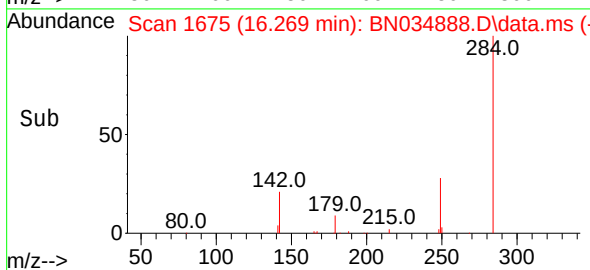
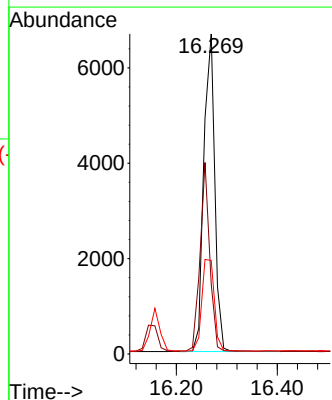
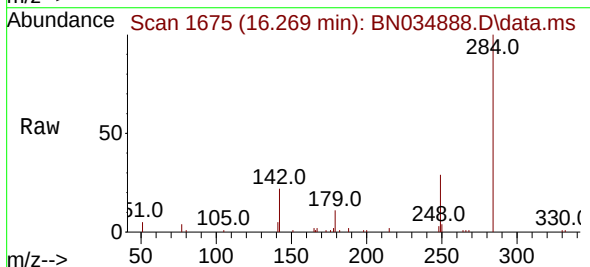
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

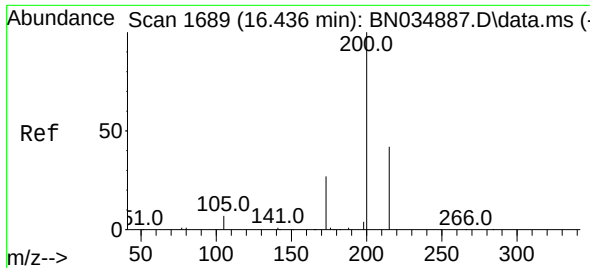
Tgt Ion:248 Resp: 8294
Ion Ratio Lower Upper
248 100
250 97.2 82.2 123.4
141 66.6 36.2 54.2#



#22
Hexachlorobenzene
Concen: 0.834 ng
RT: 16.269 min Scan# 1675
Delta R.T. 0.007 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:284 Resp: 10091
Ion Ratio Lower Upper
284 100
142 52.5 43.4 65.2
249 32.7 25.8 38.6

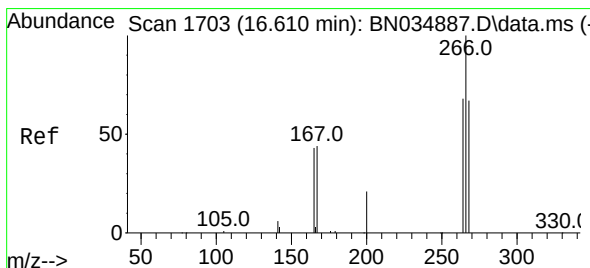
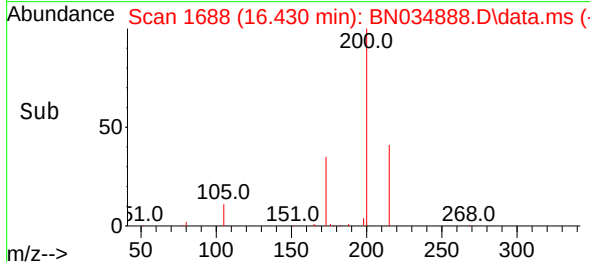
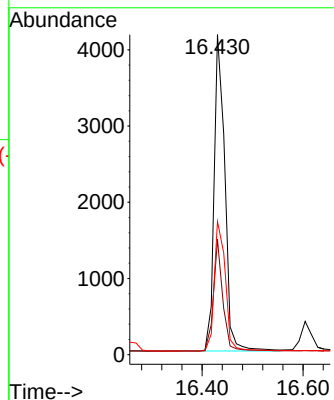
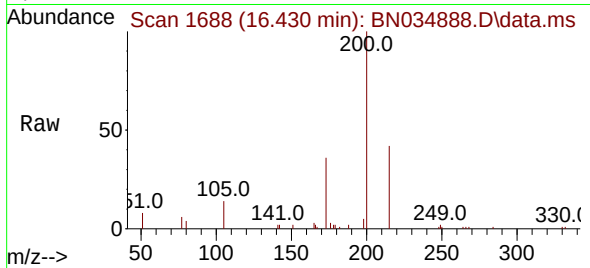




#23
Atrazine
Concen: 0.840 ng
RT: 16.430 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

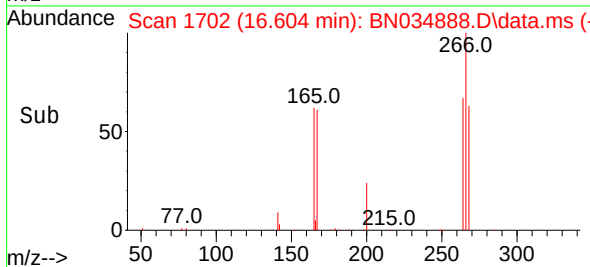
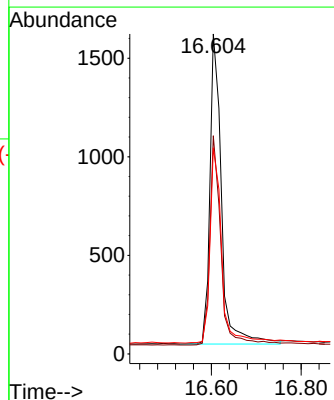
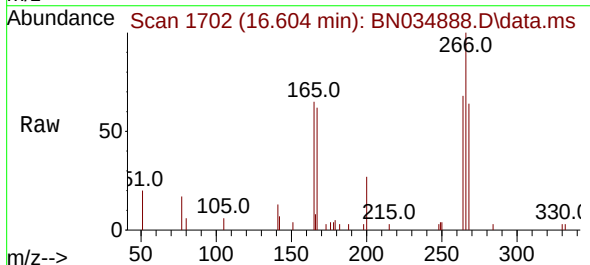
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

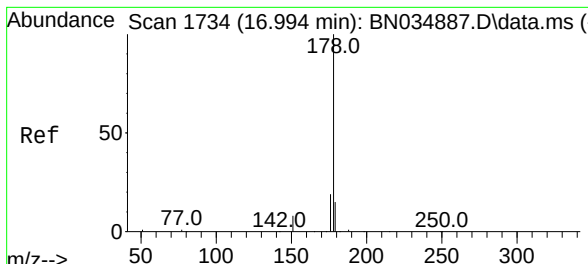
Tgt Ion:200 Resp: 6114
Ion Ratio Lower Upper
200 100
173 36.0 23.4 35.2#
215 41.7 35.4 53.0



#24
Pentachlorophenol
Concen: 0.836 ng
RT: 16.604 min Scan# 1702
Delta R.T. -0.006 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:266 Resp: 2792
Ion Ratio Lower Upper
266 100
264 64.4 51.3 76.9
268 63.4 53.0 79.6

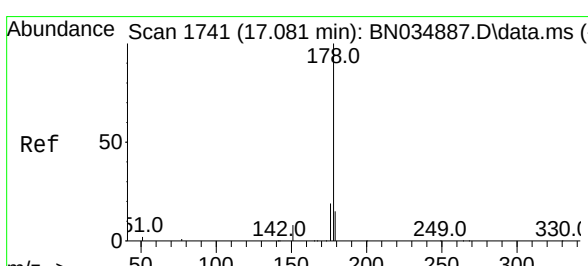
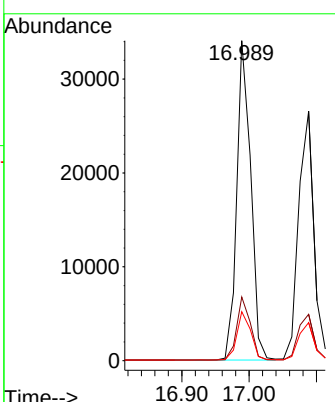
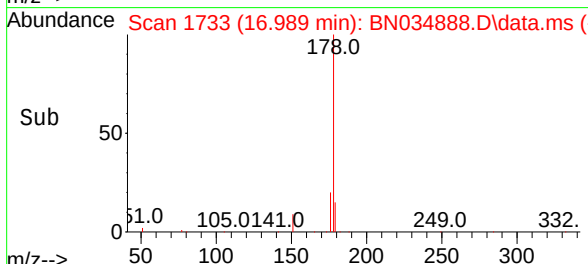
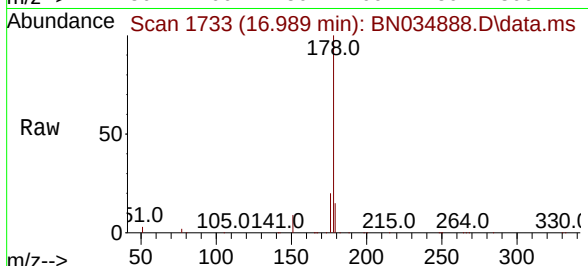




#25
 Phenanthrene
 Concen: 0.850 ng
 RT: 16.989 min Scan# 1733
 Delta R.T. -0.005 min
 Lab File: BN034888.D
 Acq: 07 Nov 2024 12:00

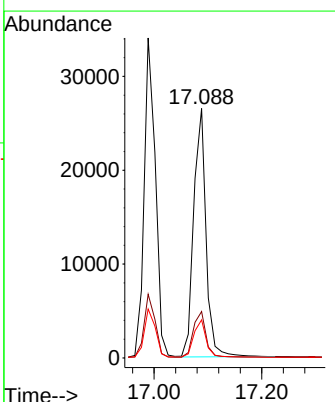
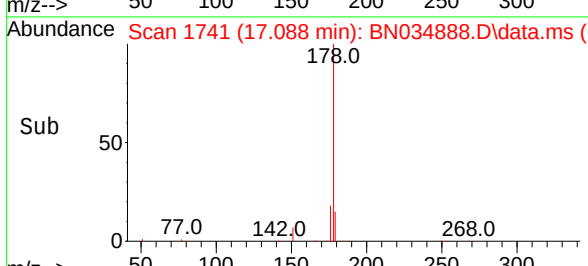
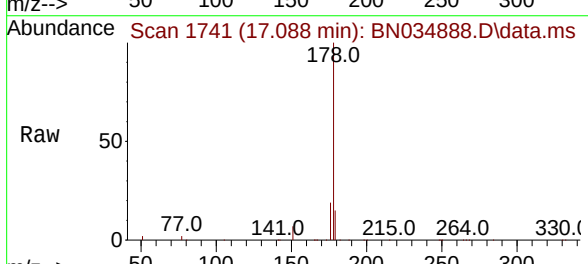
Instrument : BNA_N
 ClientSampleId : SSTDICC0.8

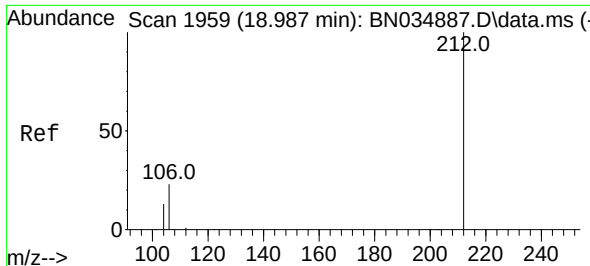
Tgt Ion:178	Resp:	49126
Ion Ratio	Lower	Upper
178	100	
176	19.5	15.5 23.3
179	15.2	12.2 18.2



#26
 Anthracene
 Concen: 0.848 ng
 RT: 17.088 min Scan# 1741
 Delta R.T. 0.007 min
 Lab File: BN034888.D
 Acq: 07 Nov 2024 12:00

Tgt Ion:178	Resp:	42271
Ion Ratio	Lower	Upper
178	100	
176	18.9	15.0 22.6
179	15.1	12.1 18.1

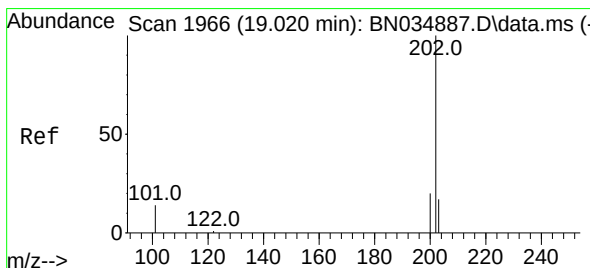
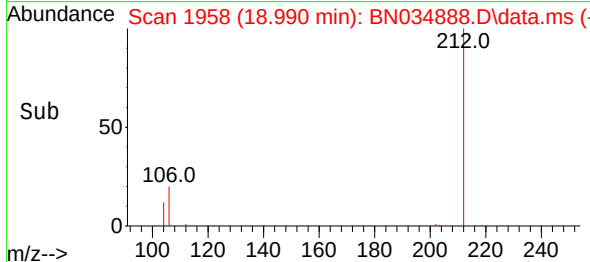
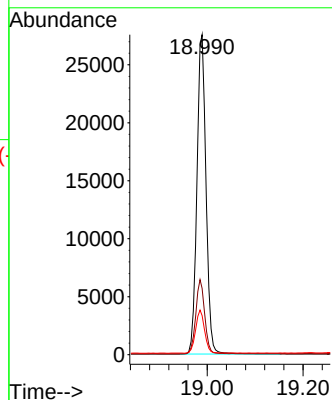
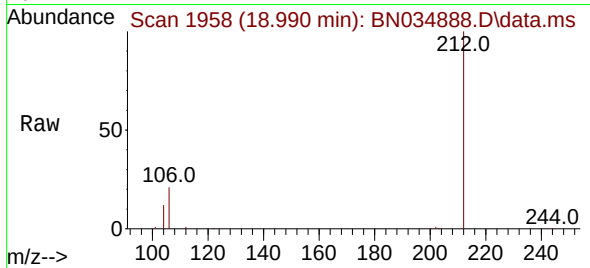




#27
Fluoranthene-d10
Concen: 0.861 ng
RT: 18.990 min Scan# 1958
Delta R.T. 0.002 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

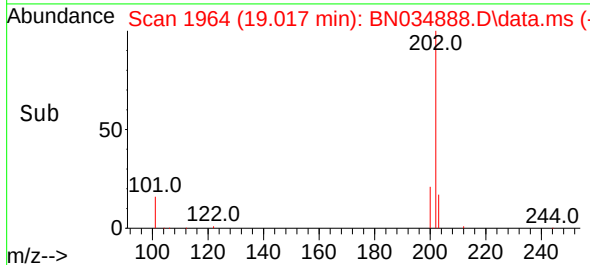
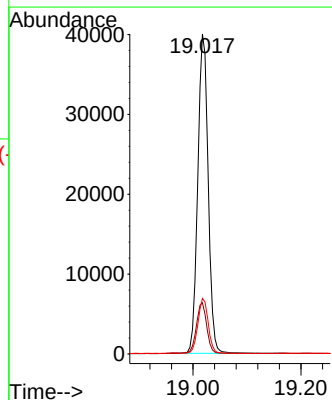
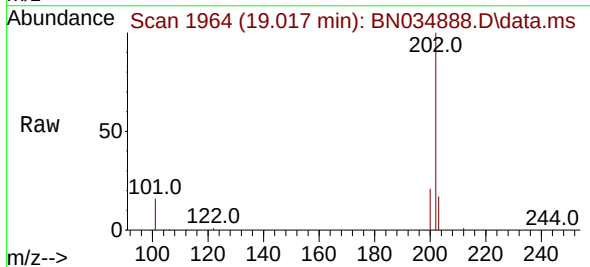
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

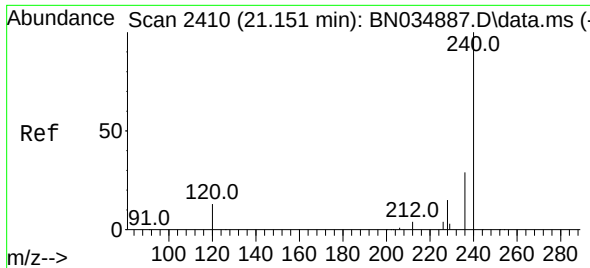
Tgt Ion:212 Resp: 36597
Ion Ratio Lower Upper
212 100
106 22.7 18.2 27.4
104 13.2 10.6 15.8



#28
Fluoranthene
Concen: 0.876 ng
RT: 19.017 min Scan# 1964
Delta R.T. -0.002 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:202 Resp: 53297
Ion Ratio Lower Upper
202 100
101 16.0 12.7 19.1
203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.149 min Scan# 2408

Delta R.T. -0.002 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

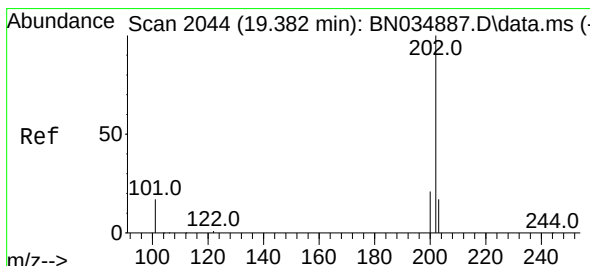
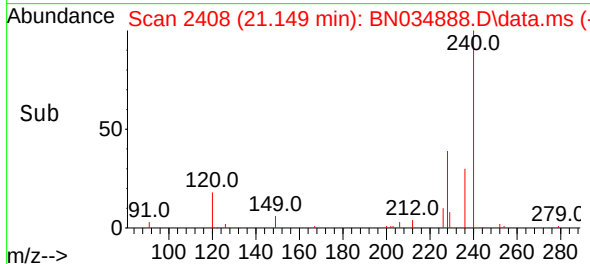
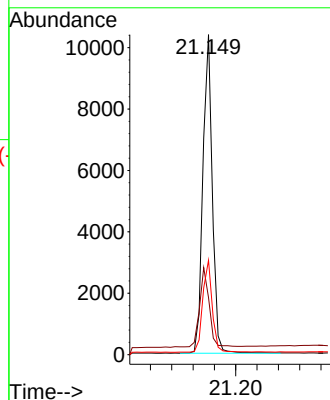
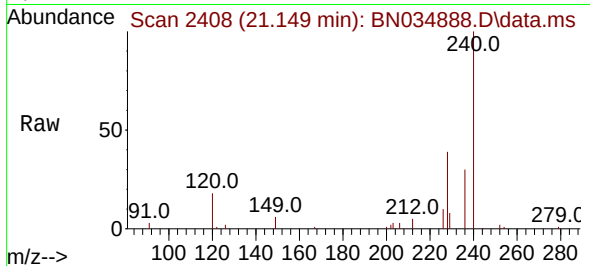
Tgt Ion:240 Resp: 12731

Ion Ratio Lower Upper

240 100

120 17.8 13.8 20.8

236 29.5 23.8 35.6



#30

Pyrene

Concen: 0.832 ng

RT: 19.380 min Scan# 2042

Delta R.T. -0.002 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

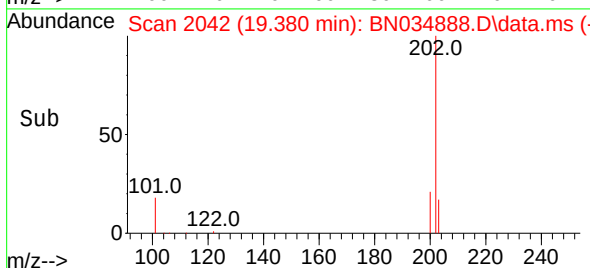
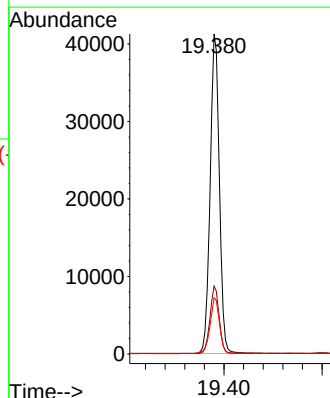
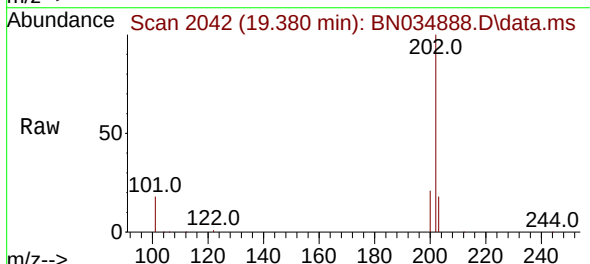
Tgt Ion:202 Resp: 53636

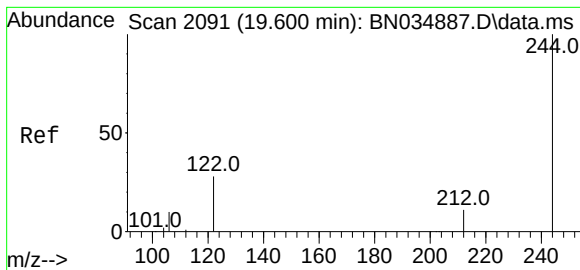
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 17.7 14.1 21.1

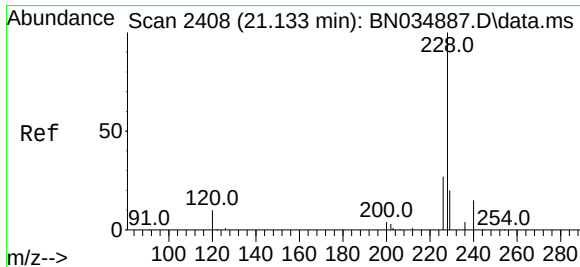
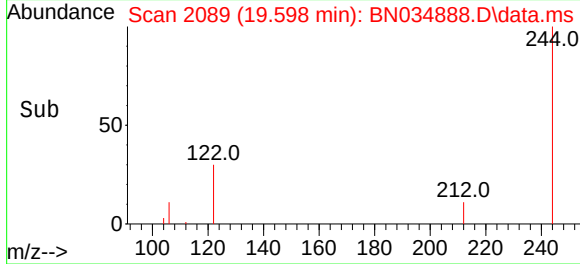
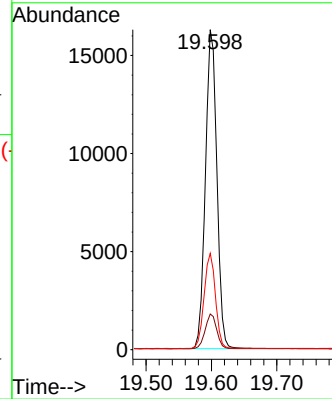
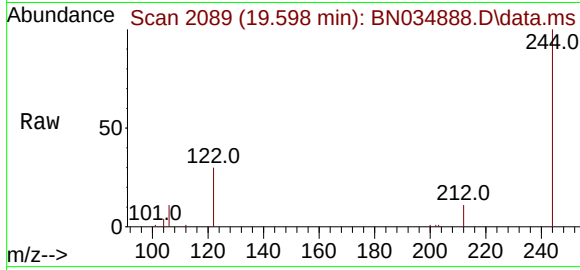




#31
Terphenyl-d14
Concen: 0.830 ng
RT: 19.598 min Scan# 2091
Delta R.T. -0.002 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

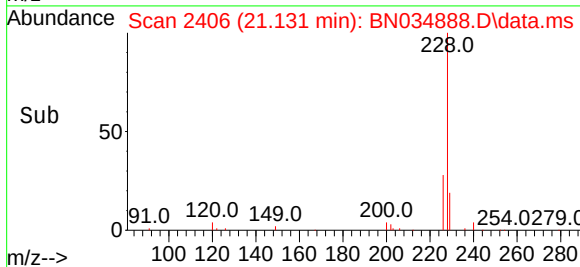
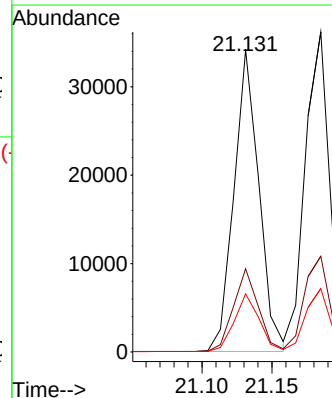
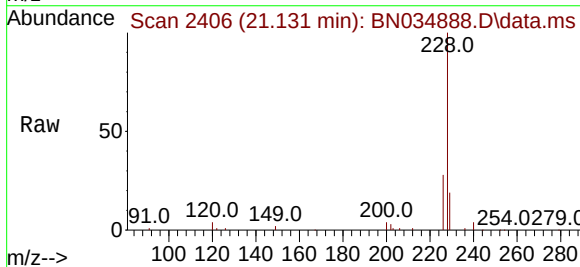
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

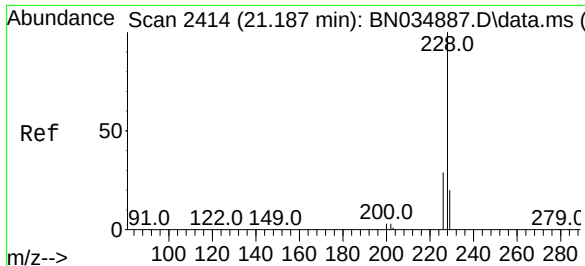
Tgt Ion:244 Resp: 19795
Ion Ratio Lower Upper
244 100
212 11.2 9.4 14.0
122 30.1 23.0 34.4



#32
Benzo(a)anthracene
Concen: 0.853 ng
RT: 21.131 min Scan# 2406
Delta R.T. -0.002 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:228 Resp: 42348
Ion Ratio Lower Upper
228 100
226 27.5 22.2 33.2
229 19.2 16.0 24.0

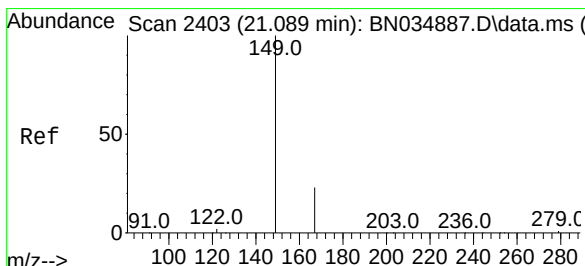
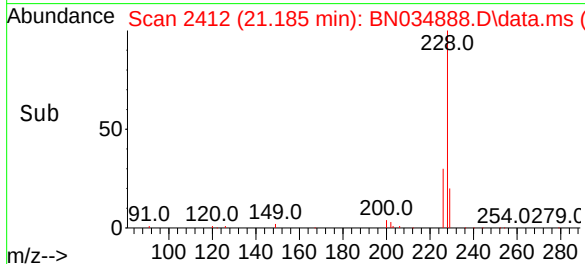
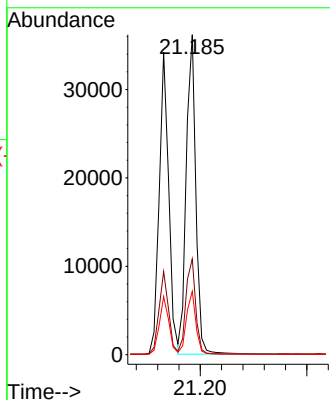
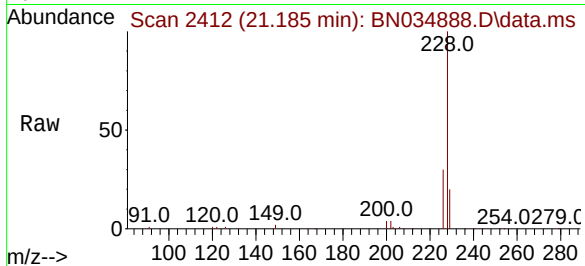




#33
Chrysene
Concen: 0.857 ng
RT: 21.185 min Scan# 2414
Delta R.T. -0.002 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

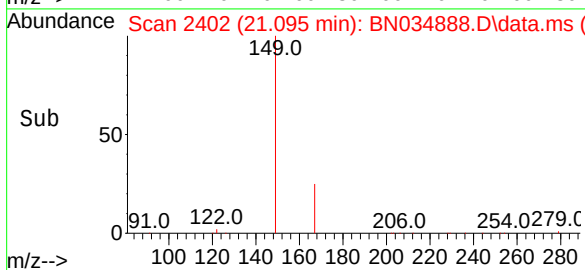
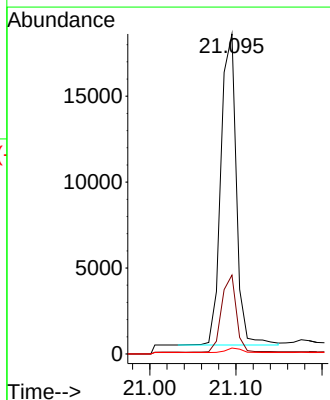
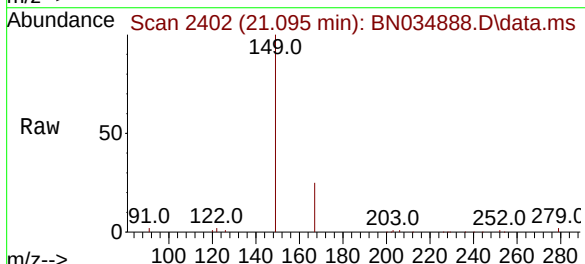
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

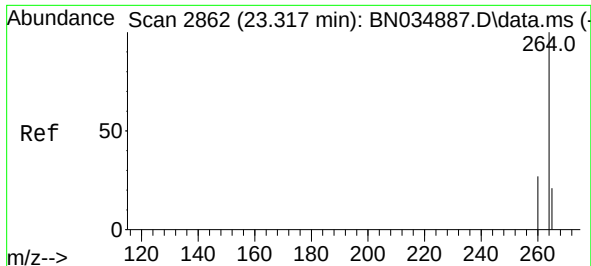
Tgt Ion:228 Resp: 45020
Ion Ratio Lower Upper
228 100
226 29.9 23.7 35.5
229 19.8 16.3 24.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.787 ng
RT: 21.095 min Scan# 2402
Delta R.T. 0.006 min
Lab File: BN034888.D
Acq: 07 Nov 2024 12:00

Tgt Ion:149 Resp: 22429
Ion Ratio Lower Upper
149 100
167 23.6 18.1 27.1
279 1.5 1.2 1.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.315 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN034888.D

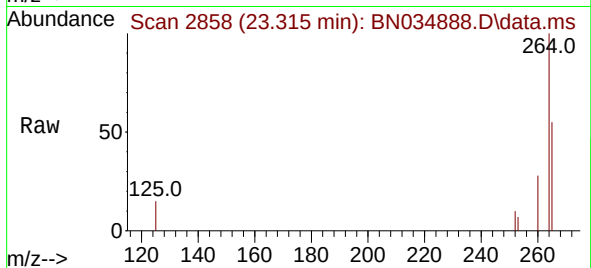
Acq: 07 Nov 2024 12:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



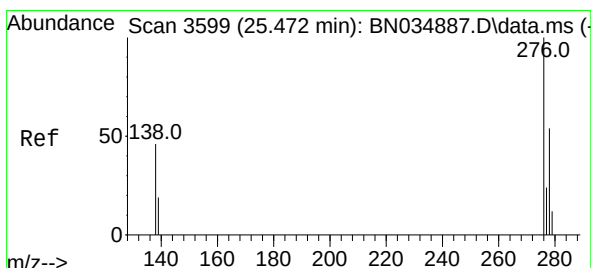
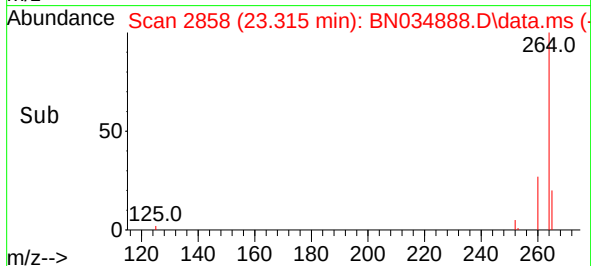
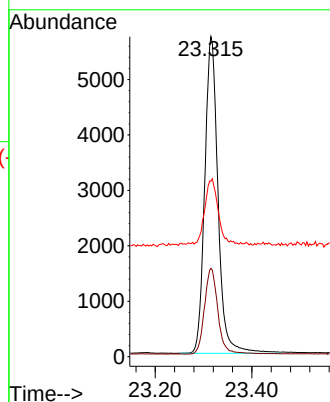
Tgt Ion:264 Resp: 10897

Ion Ratio Lower Upper

264 100

260 27.6 22.2 33.2

265 54.9 60.9 91.3#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.828 ng

RT: 25.473 min Scan# 3596

Delta R.T. 0.001 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

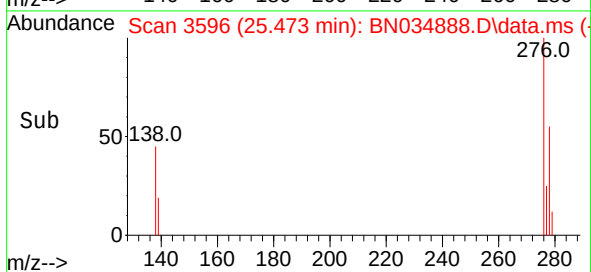
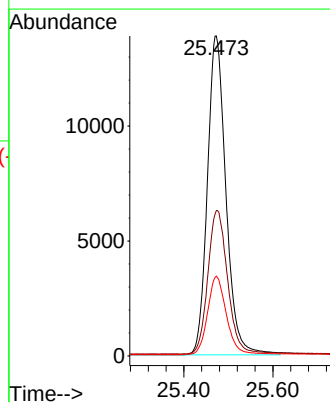
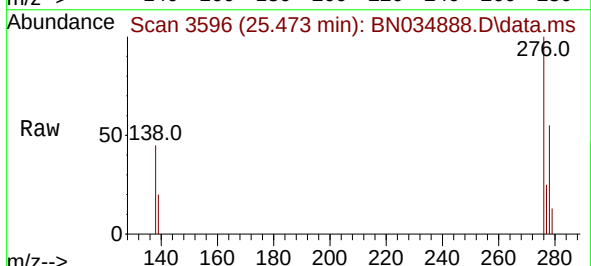
Tgt Ion:276 Resp: 40211

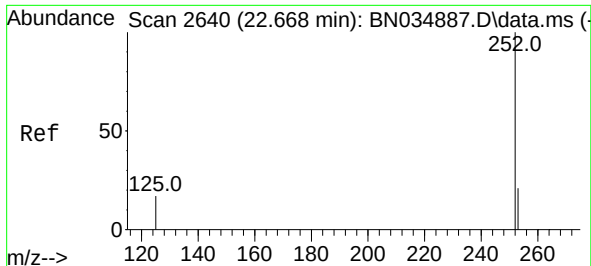
Ion Ratio Lower Upper

276 100

138 47.9 38.4 57.6

277 24.7 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.902 ng

RT: 22.713 min Scan# 2652

Delta R.T. 0.045 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

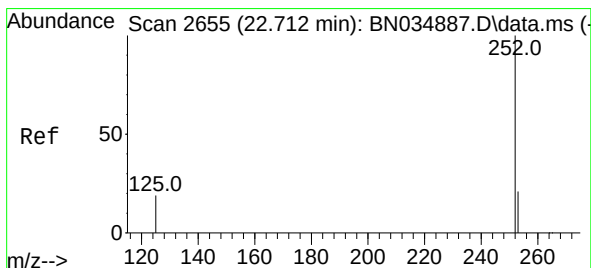
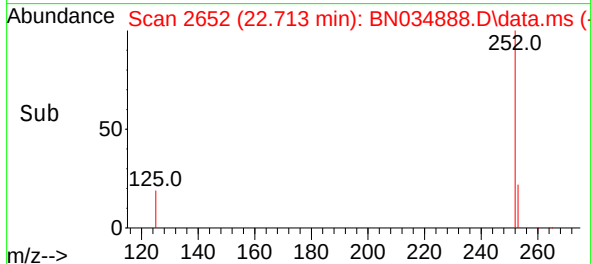
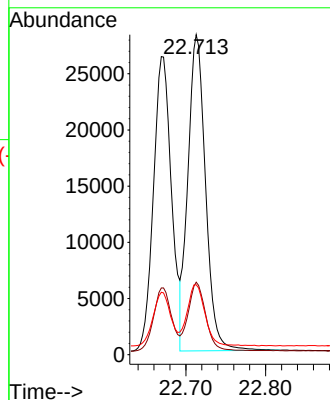
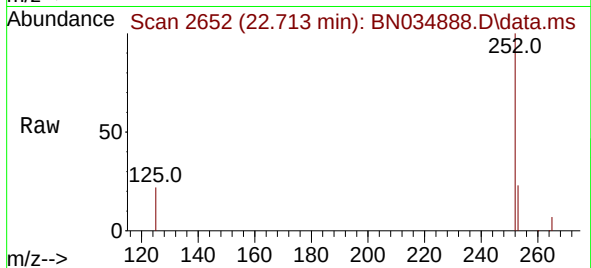
Tgt Ion:252 Resp: 43204

Ion Ratio Lower Upper

252 100

253 22.7 19.4 29.2

125 21.9 21.4 32.2



#38

Benzo(k)fluoranthene

Concen: 0.865 ng

RT: 22.713 min Scan# 2652

Delta R.T. 0.001 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

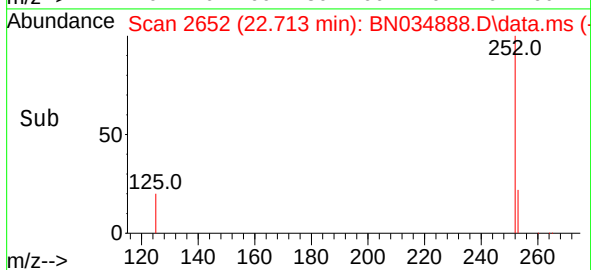
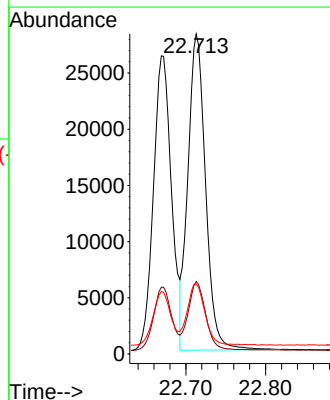
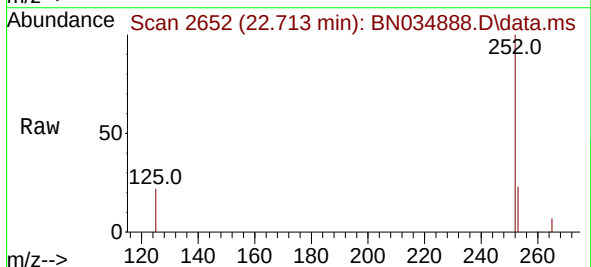
Tgt Ion:252 Resp: 43204

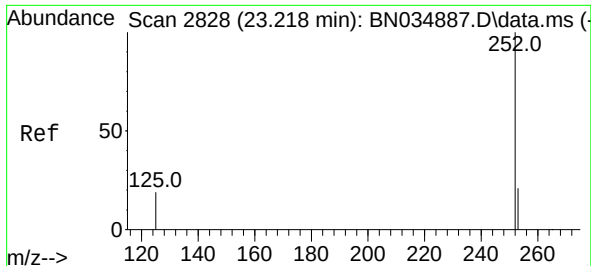
Ion Ratio Lower Upper

252 100

253 22.7 19.8 29.8

125 21.9 22.6 33.8#





#39

Benzo(a)pyrene

Concen: 0.845 ng

RT: 23.222 min Scan# 21

Delta R.T. 0.004 min

Lab File: BN034888.D

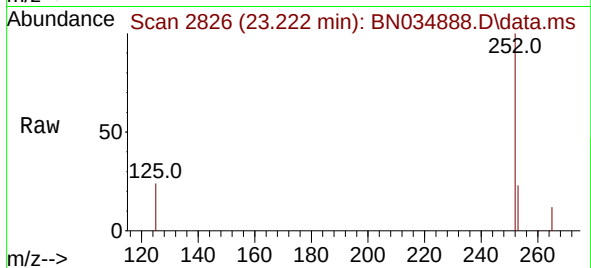
Acq: 07 Nov 2024 12:00

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



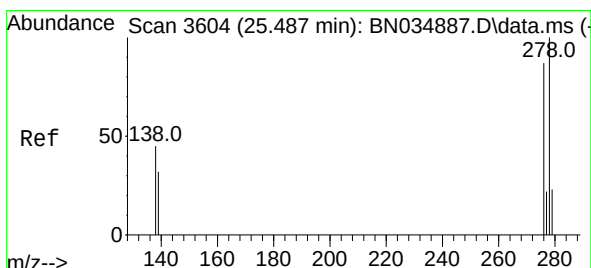
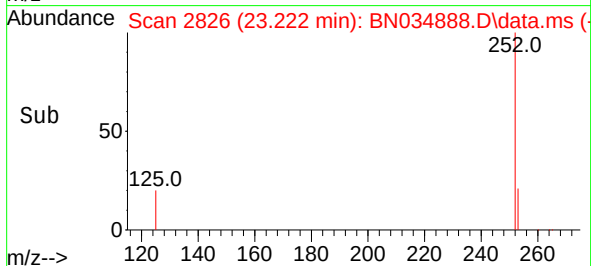
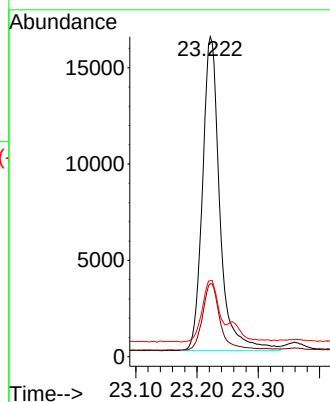
Tgt Ion:252 Resp: 32141

Ion Ratio Lower Upper

252 100

253 22.8 21.4 32.2

125 23.8 27.8 41.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.825 ng

RT: 25.488 min Scan# 3601

Delta R.T. 0.001 min

Lab File: BN034888.D

Acq: 07 Nov 2024 12:00

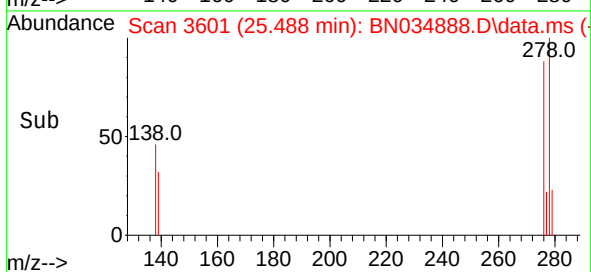
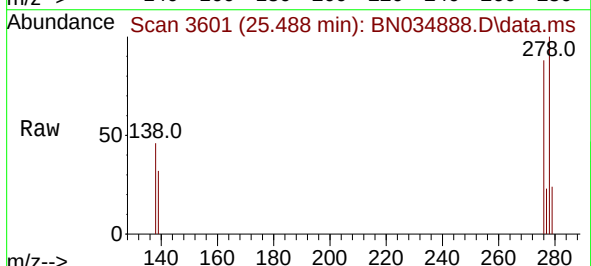
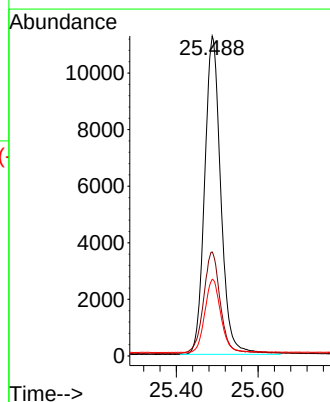
Tgt Ion:278 Resp: 31006

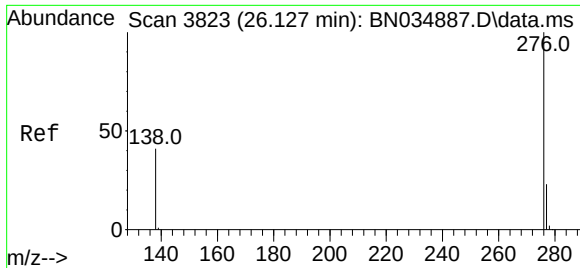
Ion Ratio Lower Upper

278 100

139 32.5 27.2 40.8

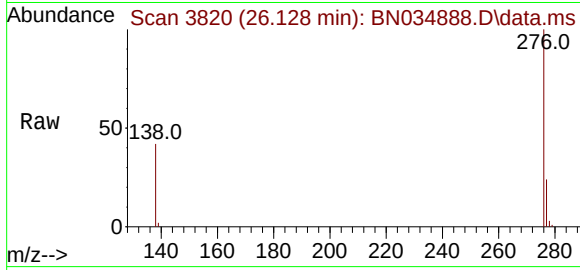
279 24.0 21.4 32.0





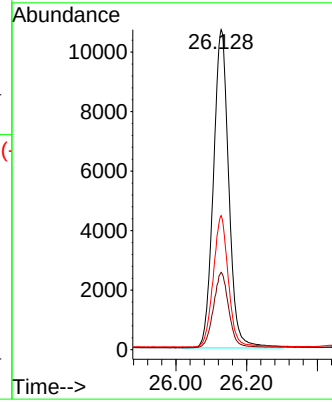
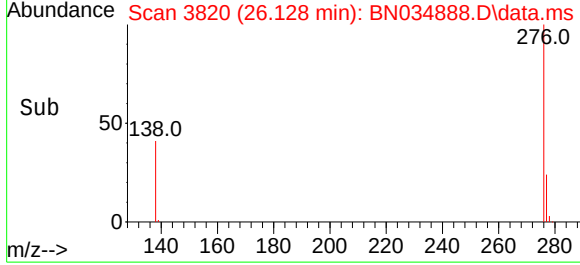
#41
 Benzo(g,h,i)perylene
 Concen: 0.812 ng
 RT: 26.128 min Scan# 30
 Delta R.T. 0.001 min
 Lab File: BN034888.D
 Acq: 07 Nov 2024 12:00

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8



Tgt Ion: 276 Resp: 32362

Ion	Ratio	Lower	Upper
276	100		
277	24.2	20.2	30.2
138	41.9	33.9	50.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
 Data File : BN034892.D
 Acq On : 07 Nov 2024 14:24
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN110724

Quant Time: Nov 07 15:03:15 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 07 15:02:36 2024
 Response via : Initial Calibration

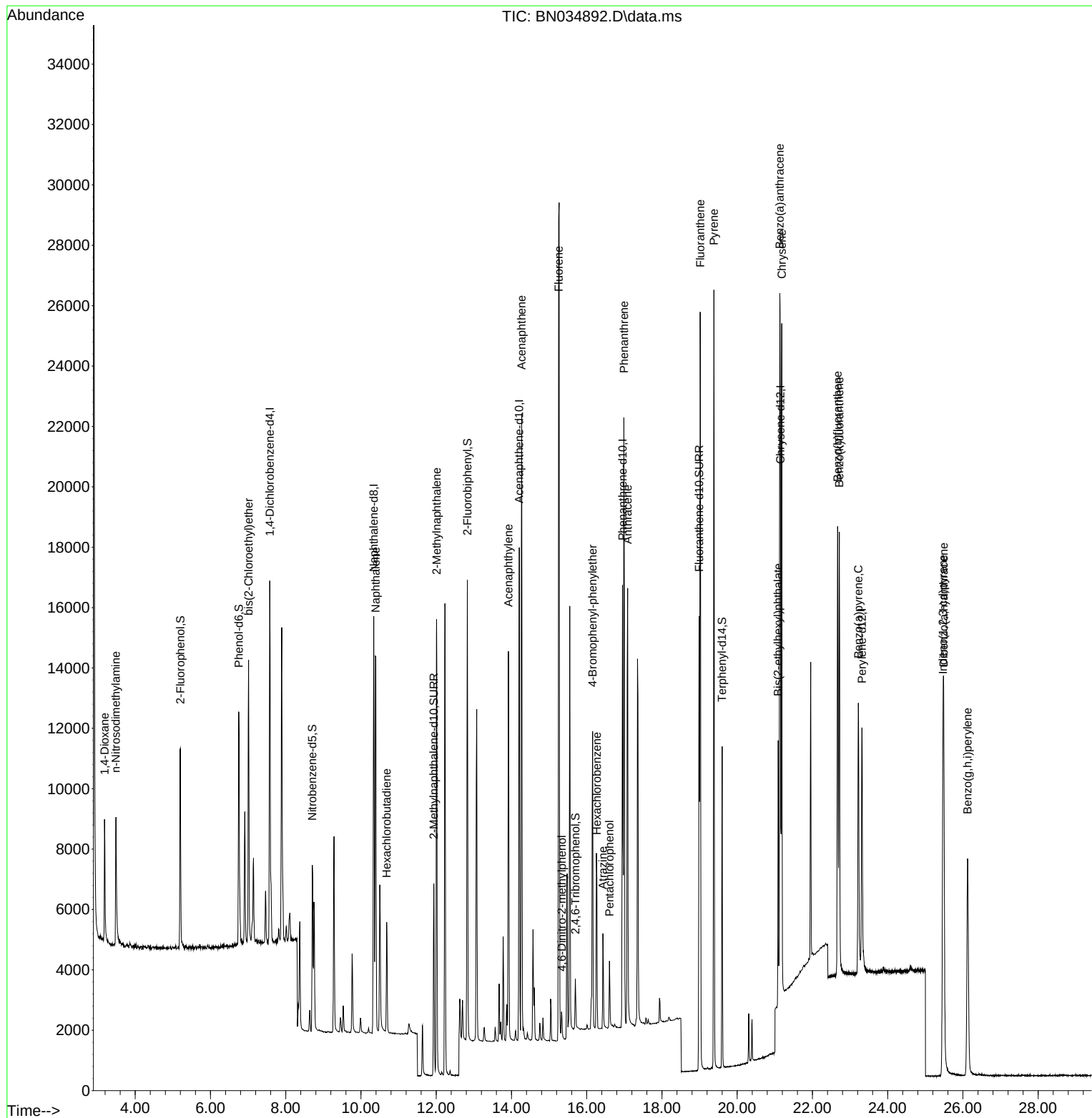
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	5596	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	16947	0.400	ng	0.00
13) Acenaphthene-d10	14.208	164	8617	0.400	ng	0.00
19) Phenanthrene-d10	16.952	188	17630	0.400	ng	# 0.00
29) Chrysene-d12	21.149	240	11730	0.400	ng	0.00
35) Perylene-d12	23.315	264	10292	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.199	112	5527	0.354	ng	0.00
5) Phenol-d6	6.752	99	7207	0.348	ng	0.00
8) Nitrobenzene-d5	8.707	82	4552	0.345	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	8763	0.379	ng	0.00
14) 2,4,6-Tribromophenol	15.698	330	865	0.383	ng	0.00
15) 2-Fluorobiphenyl	12.829	172	13055	0.359	ng	0.00
27) Fluoranthene-d10	18.990	212	15225	0.383	ng	0.00
31) Terphenyl-d14	19.598	244	8465	0.385	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.184	88	2461	0.348	ng	99
3) n-Nitrosodimethylamine	3.487	42	3231	0.339	ng	# 96
6) bis(2-Chloroethyl)ether	7.012	93	6507	0.364	ng	97
9) Naphthalene	10.394	128	17745	0.377	ng	99
10) Hexachlorobutadiene	10.682	225	2830	0.378	ng	# 98
12) 2-Methylnaphthalene	12.011	142	10990	0.382	ng	100
16) Acenaphthylene	13.919	152	14368	0.346	ng	100
17) Acenaphthene	14.272	154	10248	0.356	ng	97
18) Fluorene	15.255	166	12934	0.361	ng	99
20) 4,6-Dinitro-2-methylph...	15.341	198	537	0.349	ng	# 66
21) 4-Bromophenyl-phenylether	16.157	248	3565	0.379	ng	# 88
22) Hexachlorobenzene	16.269	284	4413	0.390	ng	95
23) Atrazine	16.430	200	2461	0.361	ng	# 93
24) Pentachlorophenol	16.604	266	1024	0.373	ng	99
25) Phenanthrene	16.989	178	20264	0.375	ng	100
26) Anthracene	17.088	178	17075	0.366	ng	99
28) Fluoranthene	19.017	202	21837	0.384	ng	99
30) Pyrene	19.380	202	21794	0.367	ng	100
32) Benzo(a)anthracene	21.131	228	16875	0.369	ng	99
33) Chrysene	21.185	228	18729	0.387	ng	99
34) Bis(2-ethylhexyl)phtha...	21.086	149	8178	0.312	ng	98
36) Indeno(1,2,3-cd)pyrene	25.470	276	15123	0.330	ng	98
37) Benzo(b)fluoranthene	22.669	252	17108	0.378	ng	97
38) Benzo(k)fluoranthene	22.713	252	16927	0.360	ng	95
39) Benzo(a)pyrene	23.219	252	12517	0.349	ng	94
40) Dibenzo(a,h)anthracene	25.491	278	11726	0.331	ng	97
41) Benzo(g,h,i)perylene	26.125	276	13002	0.345	ng	97

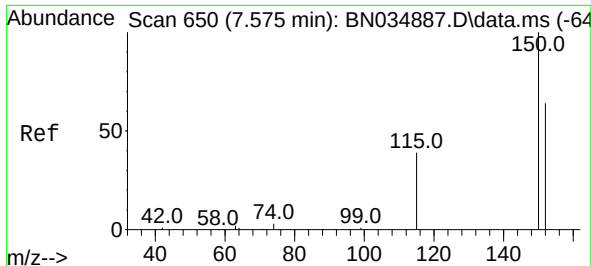
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110724\
Data File : BN034892.D
Acq On : 07 Nov 2024 14:24
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN110724

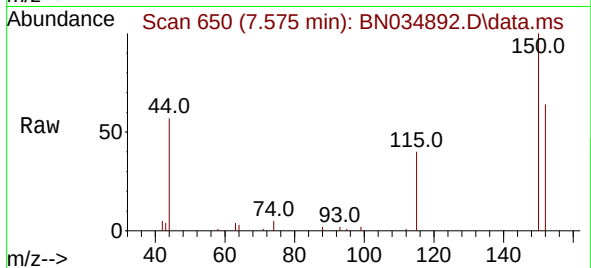
Quant Time: Nov 07 15:03:15 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 07 15:02:36 2024
Response via : Initial Calibration



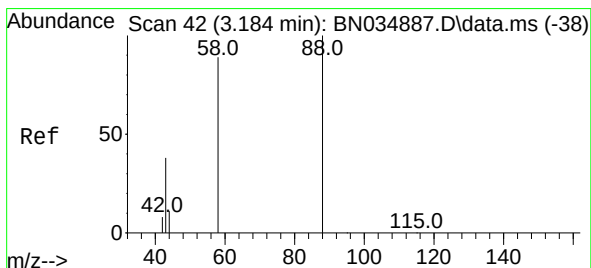
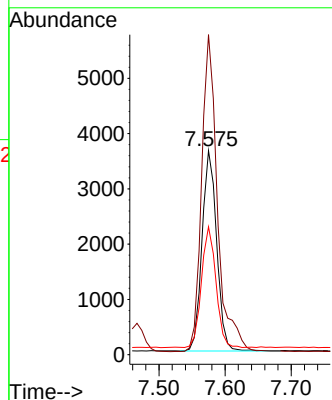
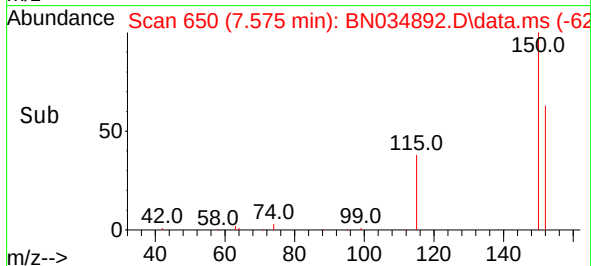


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

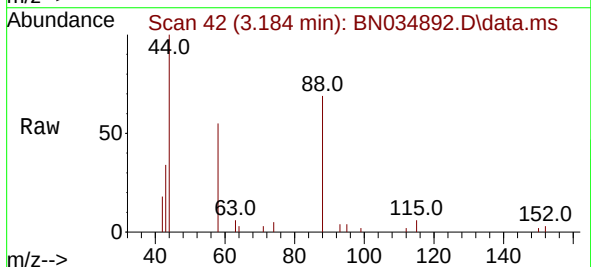
Instrument :
BNA_N
ClientSampleId :
ICVBN110724



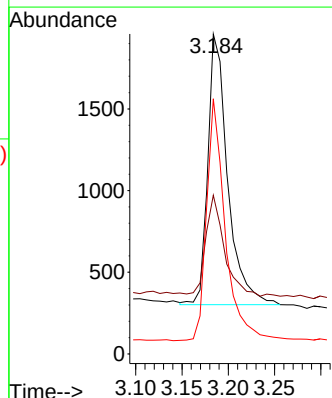
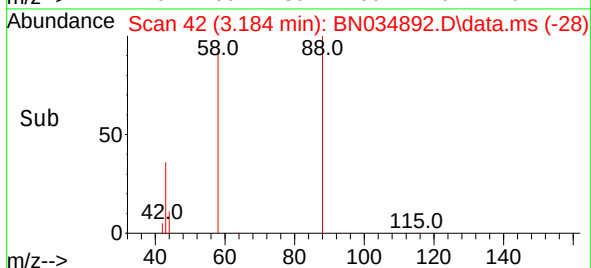
Tgt Ion:152 Resp: 5596
Ion Ratio Lower Upper
152 100
150 156.8 124.4 186.6
115 62.6 50.5 75.7

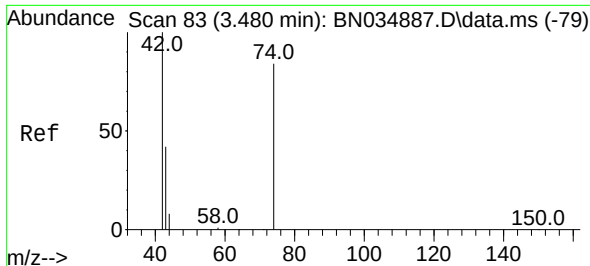


#2
1,4-Dioxane
Concen: 0.348 ng
RT: 3.184 min Scan# 42
Delta R.T. 0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24



Tgt Ion: 88 Resp: 2461
Ion Ratio Lower Upper
88 100
43 35.6 28.2 42.2
58 84.3 67.1 100.7





#3

n-Nitrosodimethylamine

Concen: 0.339 ng

RT: 3.487 min Scan# 84

Delta R.T. 0.007 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

Instrument :

BNA_N

ClientSampleId :

ICVBN110724

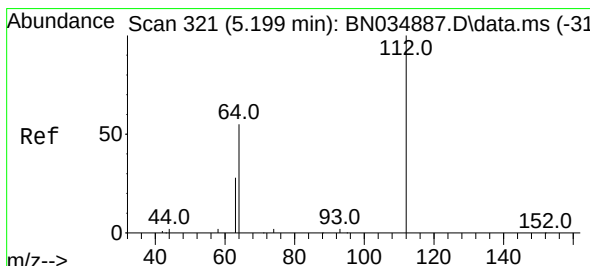
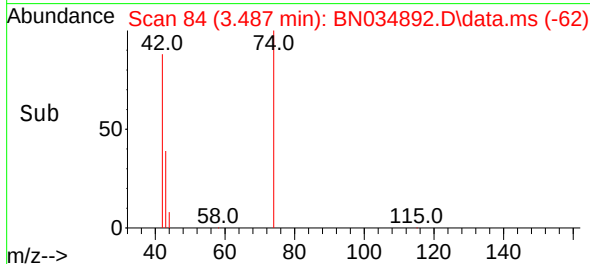
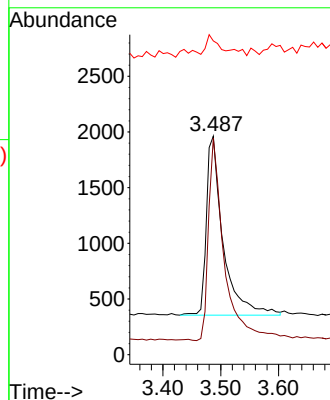
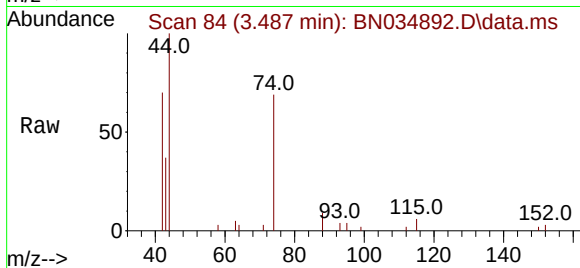
Tgt Ion: 42 Resp: 3231

Ion Ratio Lower Upper

42 100

74 107.3 83.4 125.2

44 6.9 8.6 12.8#



#4

2-Fluorophenol

Concen: 0.354 ng

RT: 5.199 min Scan# 321

Delta R.T. 0.000 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

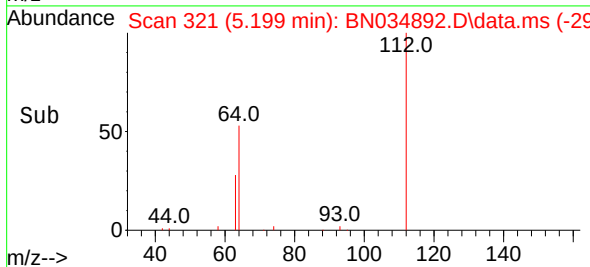
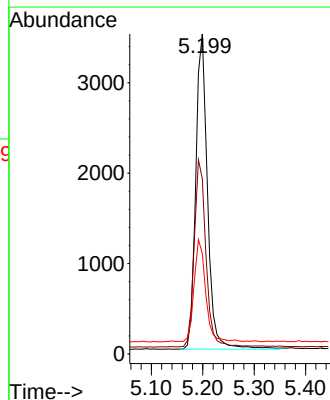
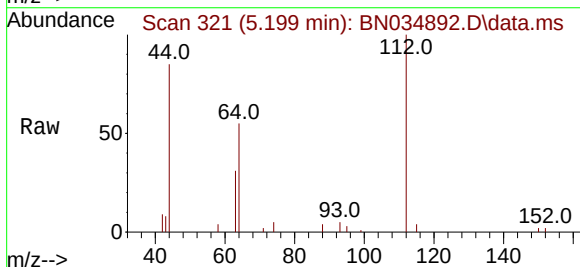
Tgt Ion: 112 Resp: 5527

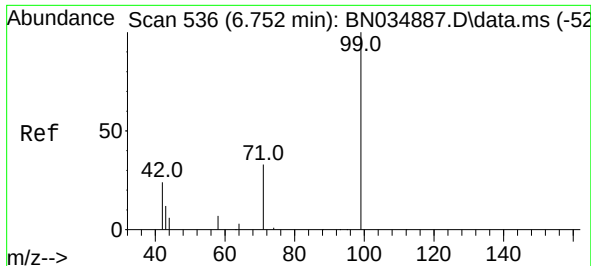
Ion Ratio Lower Upper

112 100

64 59.0 49.6 74.4

63 31.2 26.3 39.5

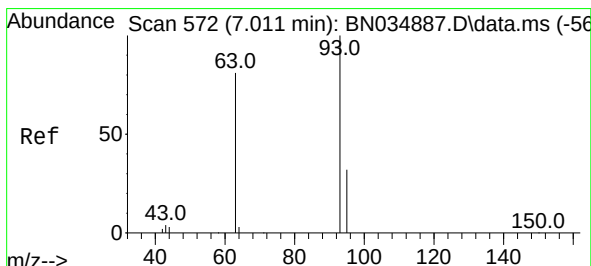
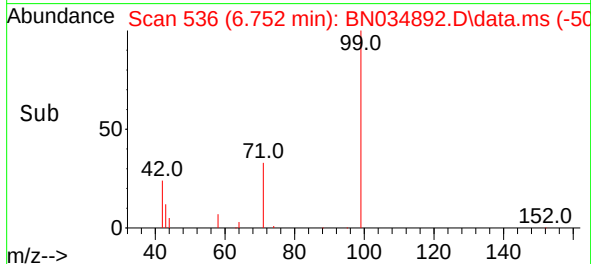
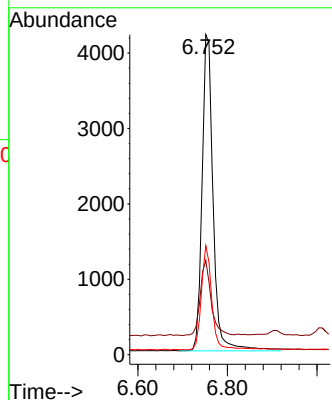
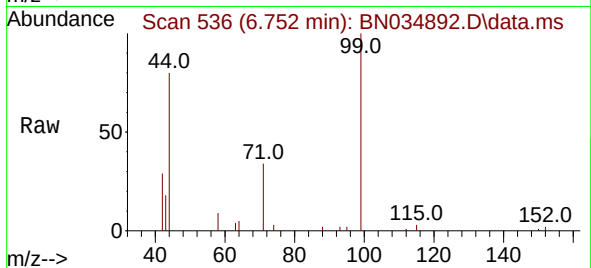




#5
Phenol-d6
Concen: 0.348 ng
RT: 6.752 min Scan# 536
Delta R.T. 0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

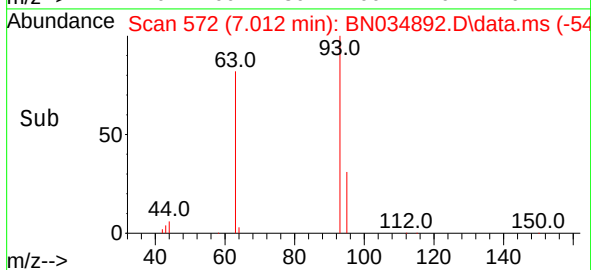
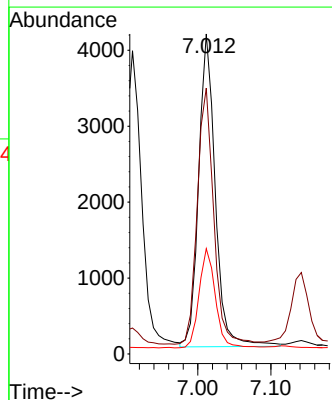
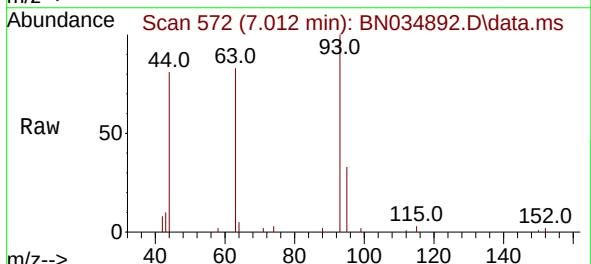
Instrument :
BNA_N
ClientSampleId :
ICVBN110724

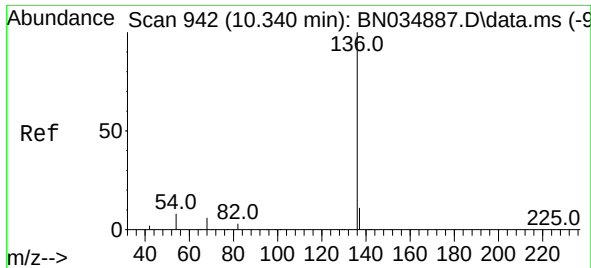
Tgt Ion:	99	Resp:	7207
Ion	Ratio	Lower	Upper
99	100		
42	23.3	20.2	30.2
71	31.6	25.4	38.0



#6
bis(2-Chloroethyl)ether
Concen: 0.364 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:	93	Resp:	6507
Ion	Ratio	Lower	Upper
93	100		
63	80.8	67.5	101.3
95	31.2	25.7	38.5

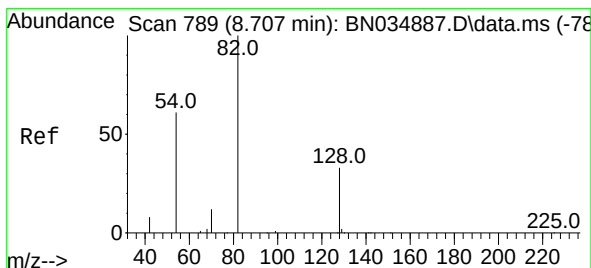
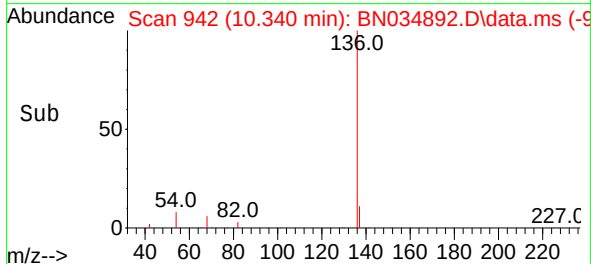
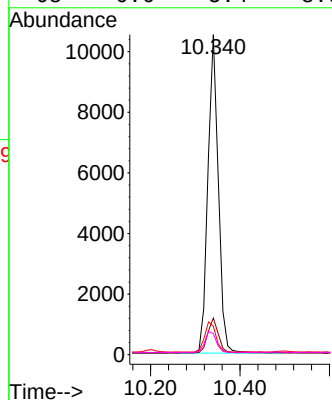
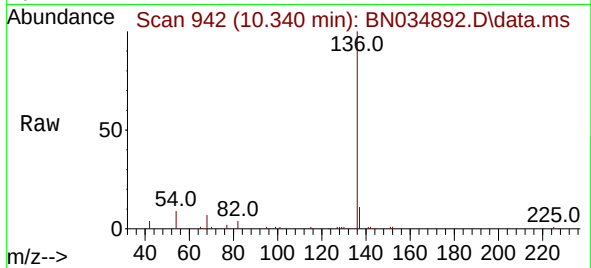




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

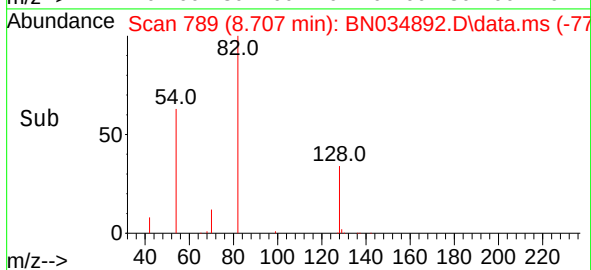
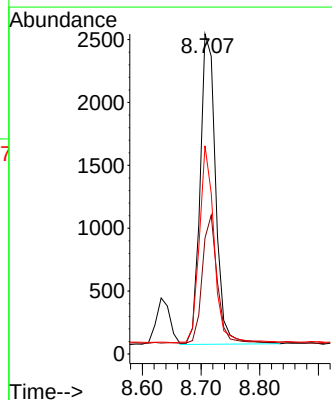
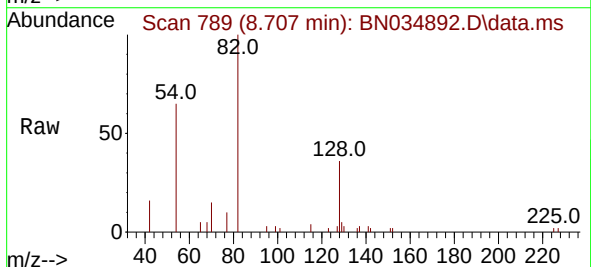
Instrument :
BNA_N
ClientSampleId :
ICVBN110724

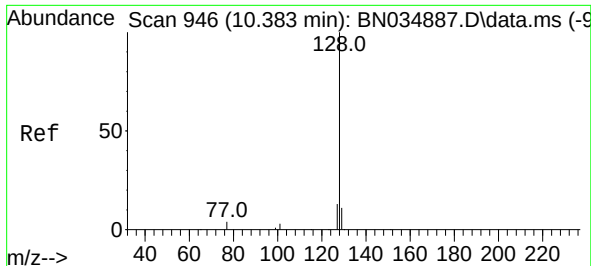
Tgt Ion:	136	Resp:	16947
Ion Ratio	Lower	Upper	
136	100		
137	11.5	8.9	13.3
54	8.9	6.9	10.3
68	6.6	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.345 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:	82	Resp:	4552
Ion Ratio	Lower	Upper	
82	100		
128	36.3	28.1	42.1
54	65.1	49.8	74.6

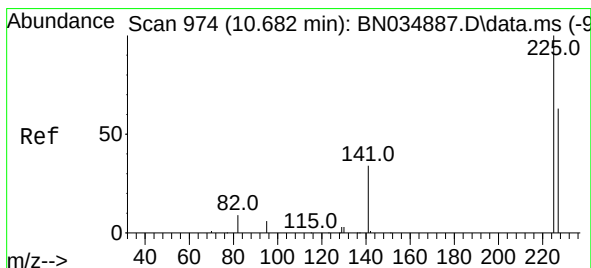
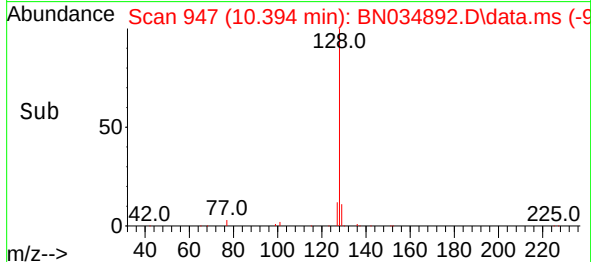
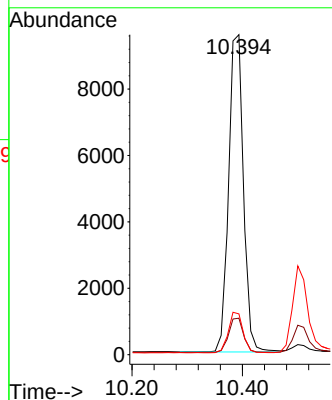
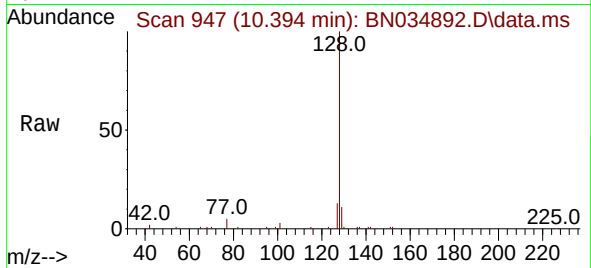




#9
Naphthalene
Concen: 0.377 ng
RT: 10.394 min Scan# 946
Delta R.T. 0.011 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

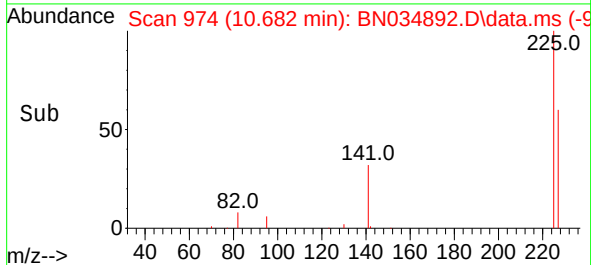
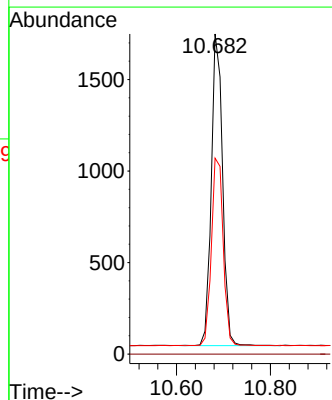
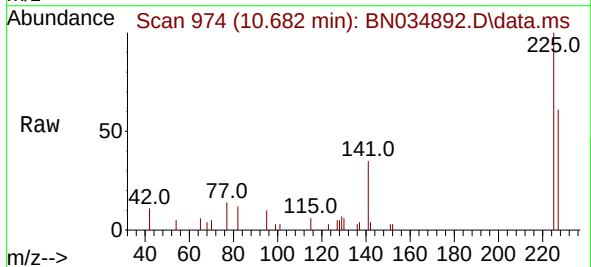
Instrument :
BNA_N
ClientSampleId :
ICVBN110724

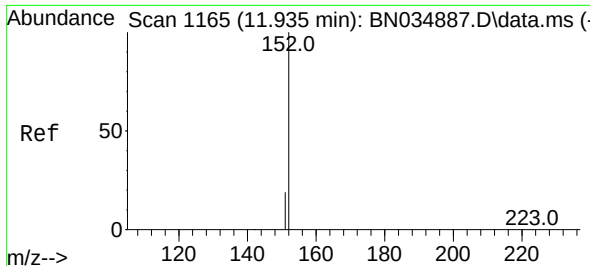
Tgt Ion:128 Resp: 17745
Ion Ratio Lower Upper
128 100
129 11.4 9.0 13.4
127 12.8 10.8 16.2



#10
Hexachlorobutadiene
Concen: 0.378 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:225 Resp: 2830
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 52.0 78.0





#11

2-Methylnaphthalene-d10

Concen: 0.379 ng

RT: 11.935 min Scan# 1165

Delta R.T. 0.000 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

Instrument :

BNA_N

ClientSampleId :

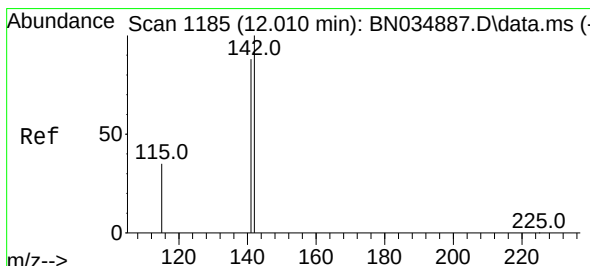
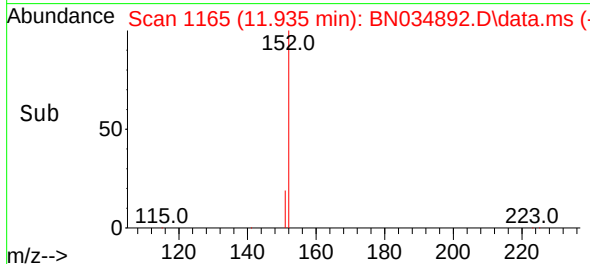
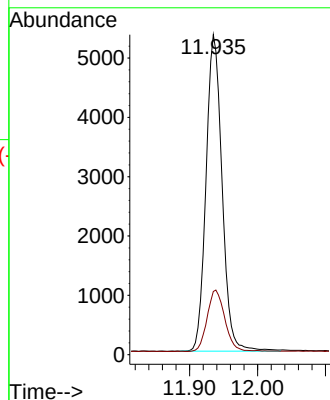
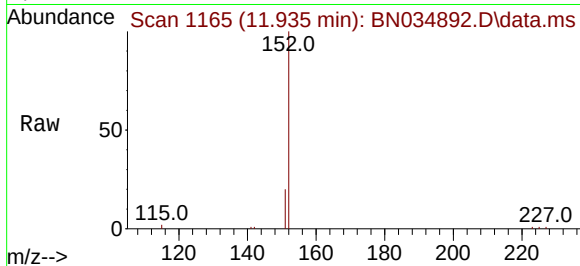
ICVBN110724

Tgt Ion:152 Resp: 8763

Ion Ratio Lower Upper

152 100

151 21.4 17.1 25.7



#12

2-Methylnaphthalene

Concen: 0.382 ng

RT: 12.011 min Scan# 1185

Delta R.T. 0.000 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

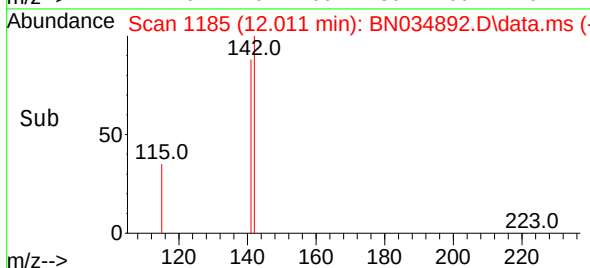
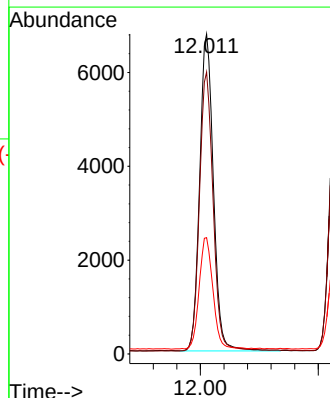
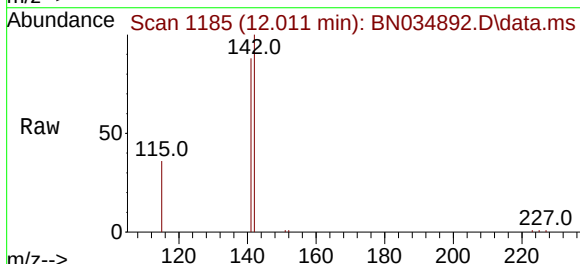
Tgt Ion:142 Resp: 10990

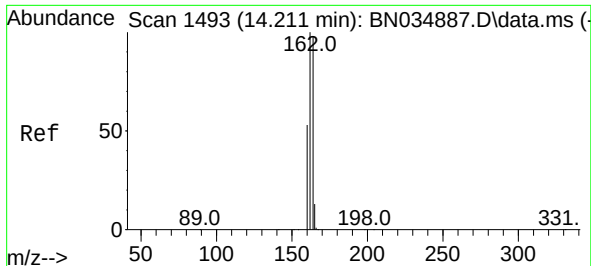
Ion Ratio Lower Upper

142 100

141 88.1 70.5 105.7

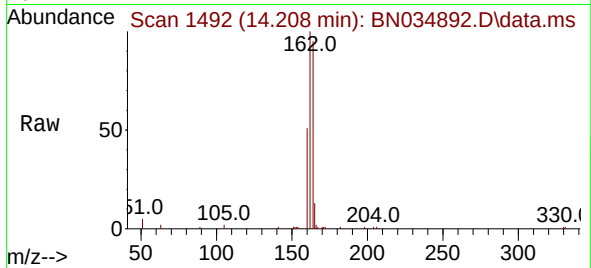
115 36.3 29.4 44.2



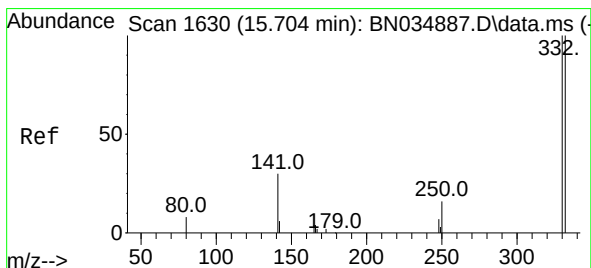
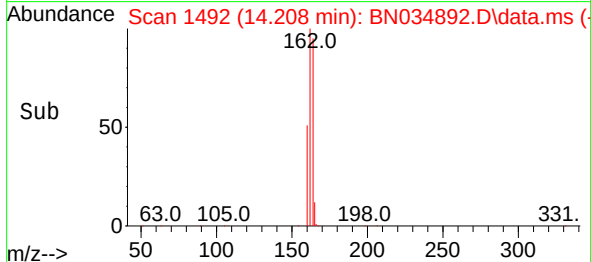
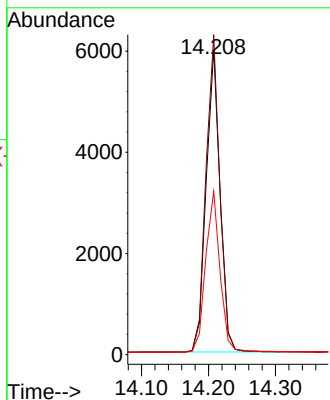


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.208 min Scan# 14
Delta R.T. -0.003 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Instrument :
BNA_N
ClientSampleId :
ICVBN110724

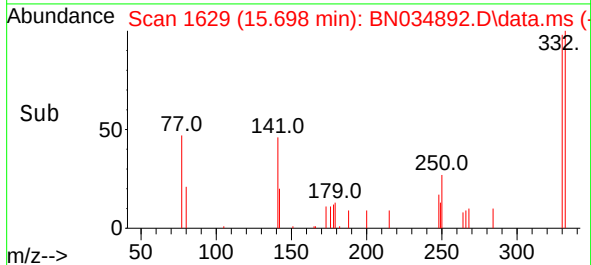
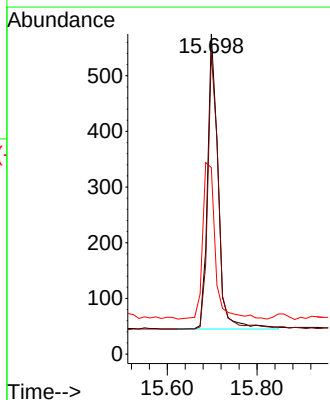
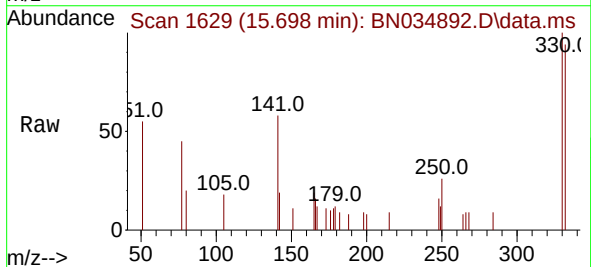


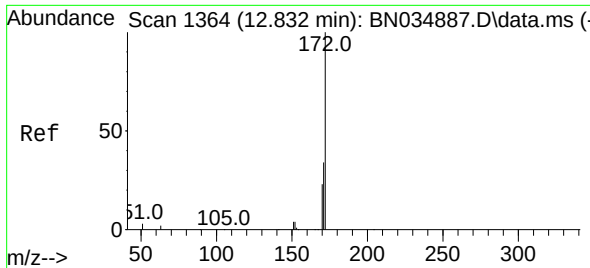
Tgt Ion:164 Resp: 8617
Ion Ratio Lower Upper
164 100
162 104.8 81.9 122.9
160 53.5 43.5 65.3



#14
2,4,6-Tribromophenol
Concen: 0.383 ng
RT: 15.698 min Scan# 1629
Delta R.T. -0.006 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:330 Resp: 865
Ion Ratio Lower Upper
330 100
332 91.7 77.1 115.7
141 62.7 54.1 81.1

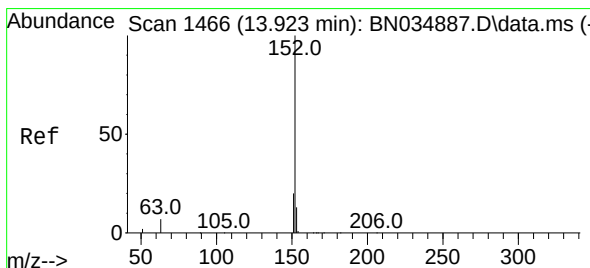
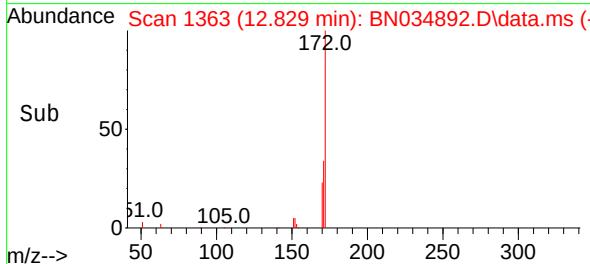
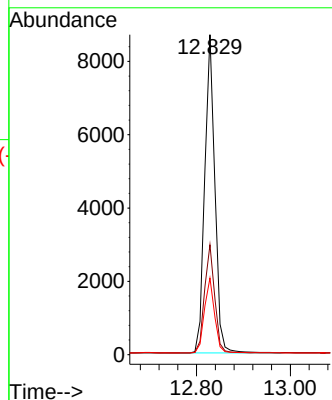
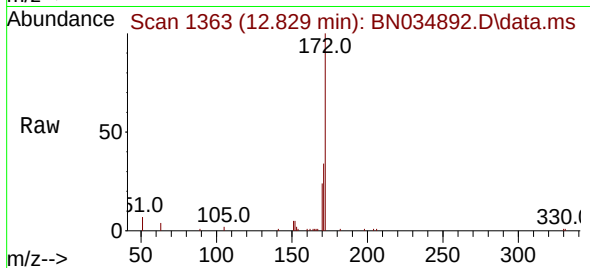




#15
2-Fluorobiphenyl
Concen: 0.359 ng
RT: 12.829 min Scan# 1465
Delta R.T. -0.004 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

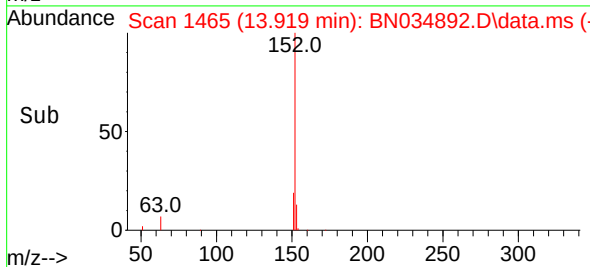
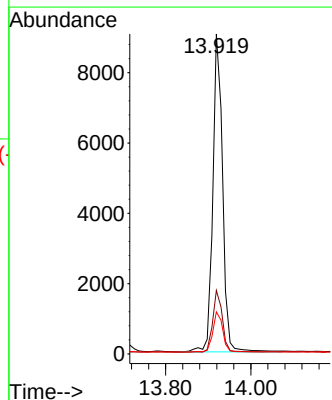
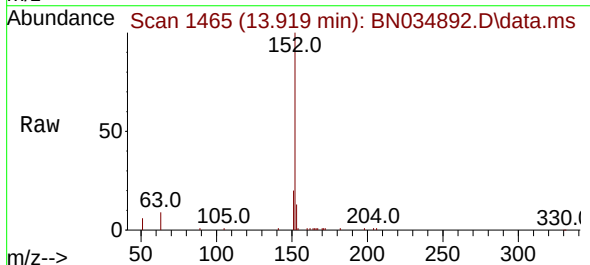
Instrument :
BNA_N
ClientSampleId :
ICVBN110724

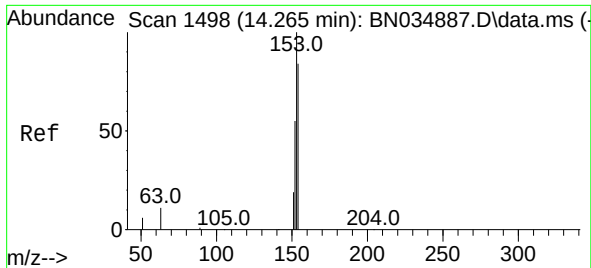
Tgt Ion:	172	Resp:	13055
Ion Ratio	Lower	Upper	
172	100		
171	34.3	27.9	41.9
170	23.9	19.0	28.4



#16
Acenaphthylene
Concen: 0.346 ng
RT: 13.919 min Scan# 1465
Delta R.T. -0.004 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:	152	Resp:	14368
Ion Ratio	Lower	Upper	
152	100		
151	19.0	15.2	22.8
153	12.7	10.4	15.6

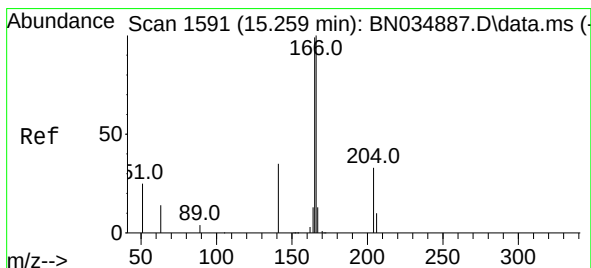
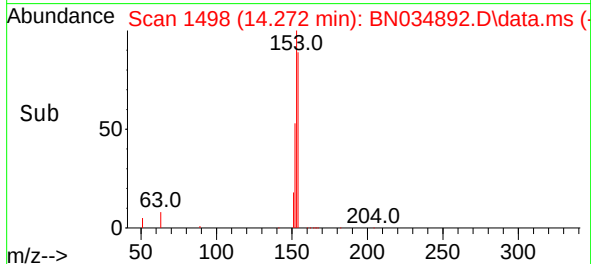
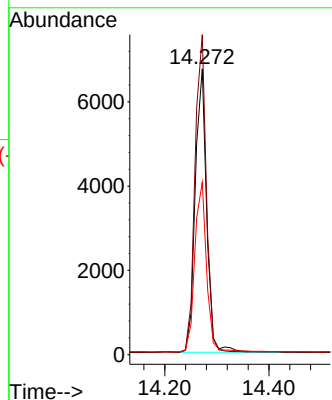
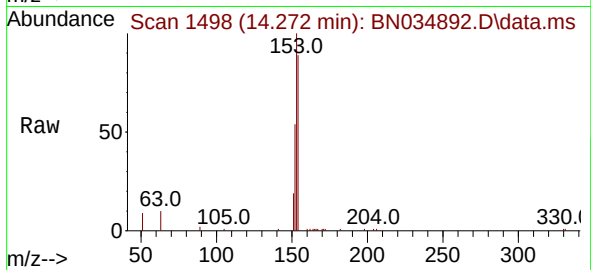




#17
Acenaphthene
Concen: 0.356 ng
RT: 14.272 min Scan# 1498
Delta R.T. 0.007 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

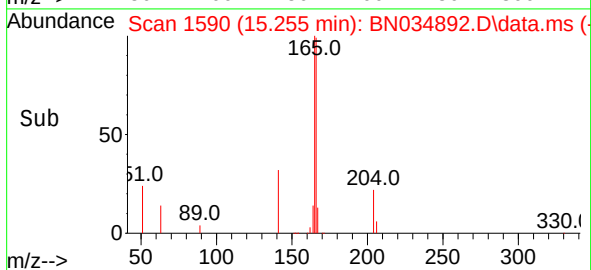
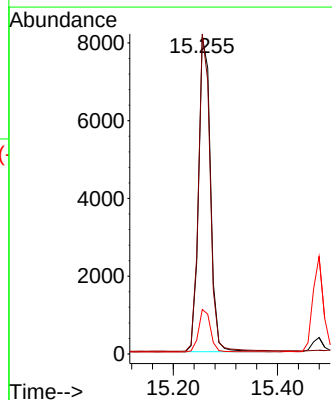
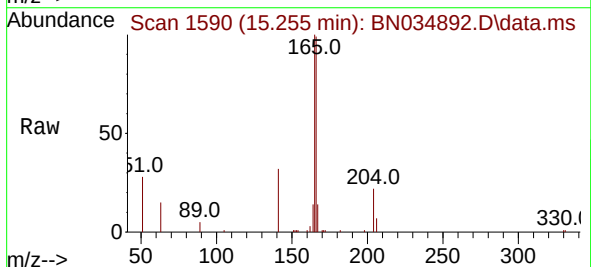
Instrument :
BNA_N
ClientSampleId :
ICVBN110724

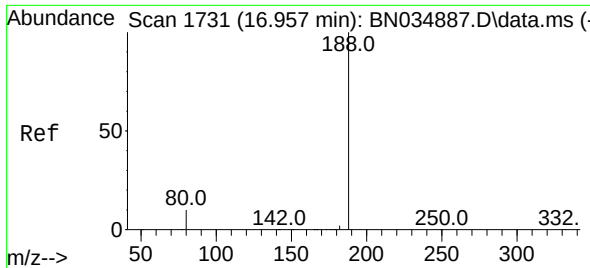
Tgt Ion:154 Resp: 10248
Ion Ratio Lower Upper
154 100
153 111.7 92.2 138.2
152 61.6 51.1 76.7



#18
Fluorene
Concen: 0.361 ng
RT: 15.255 min Scan# 1590
Delta R.T. -0.004 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:166 Resp: 12934
Ion Ratio Lower Upper
166 100
165 98.5 79.5 119.3
167 13.5 10.6 16.0

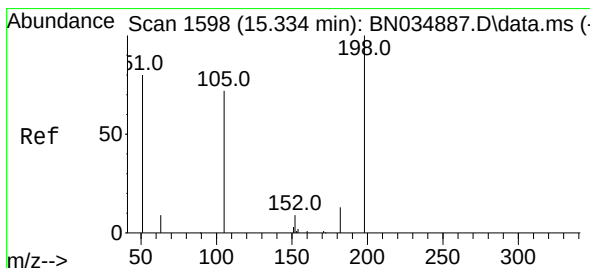
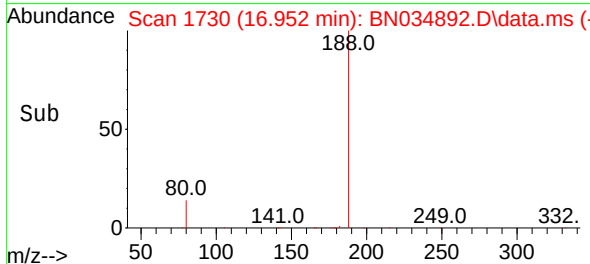
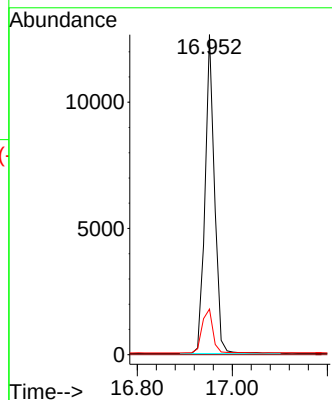
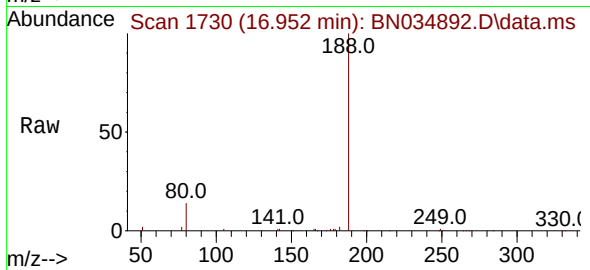




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.952 min Scan# 1730
Delta R.T. -0.005 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

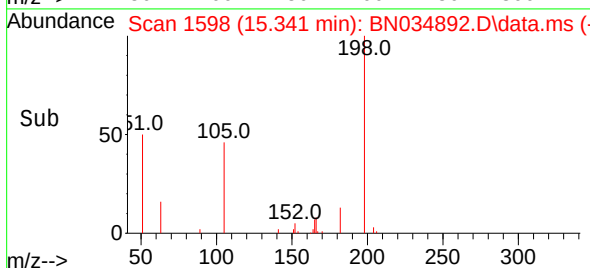
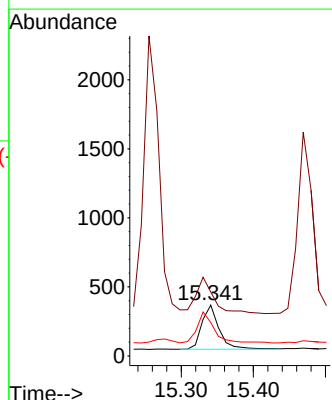
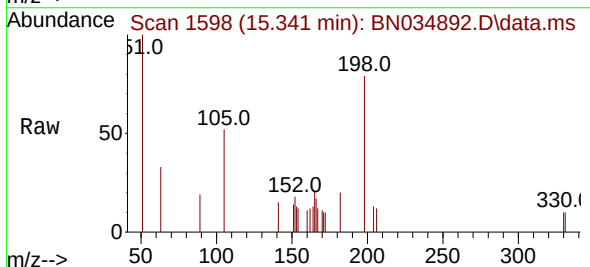
Instrument :
BNA_N
ClientSampleId :
ICVBN110724

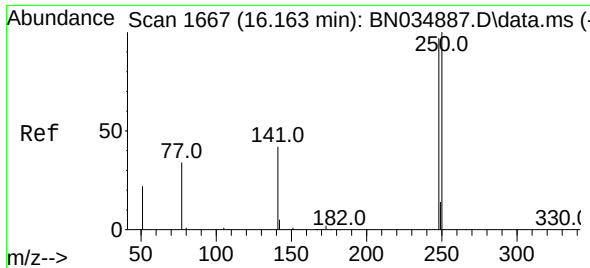
Tgt Ion:188 Resp: 17630
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.2 8.6 12.8#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.349 ng
RT: 15.341 min Scan# 1598
Delta R.T. 0.007 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

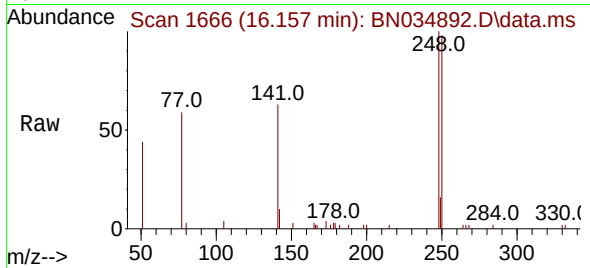
Tgt Ion:198 Resp: 537
Ion Ratio Lower Upper
198 100
51 125.8 141.8 212.8#
105 65.8 75.6 113.4#



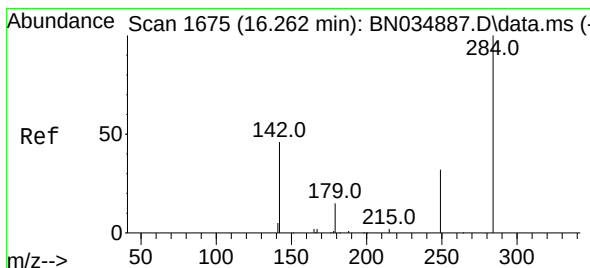
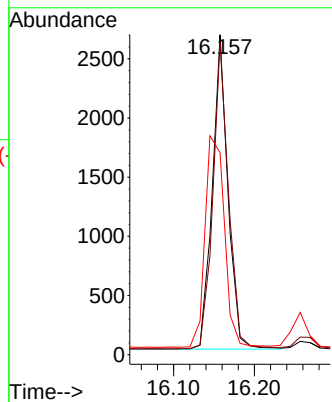
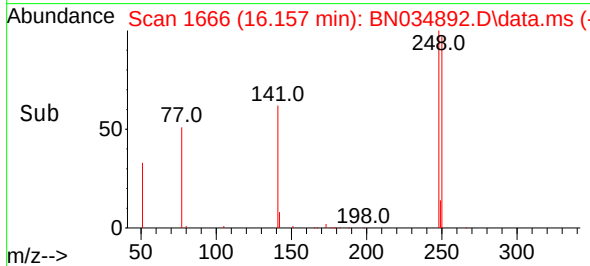


#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.157 min Scan# 1666
Delta R.T. -0.005 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Instrument :
BNA_N
ClientSampleId :
ICVBN110724

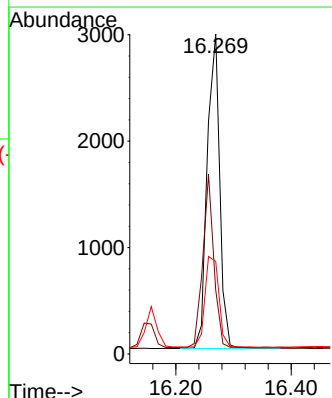
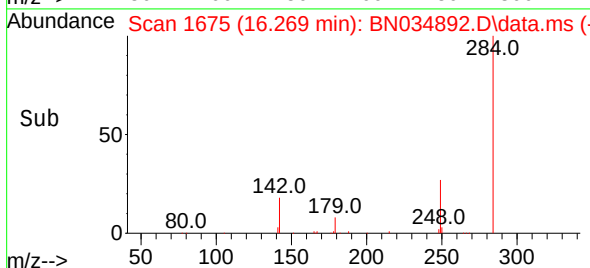
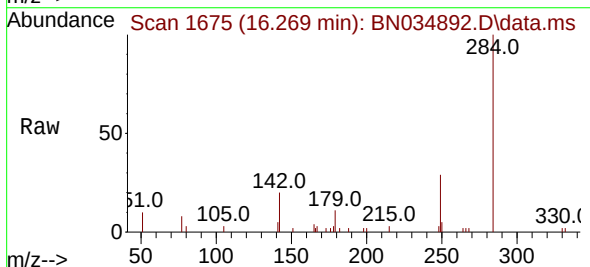


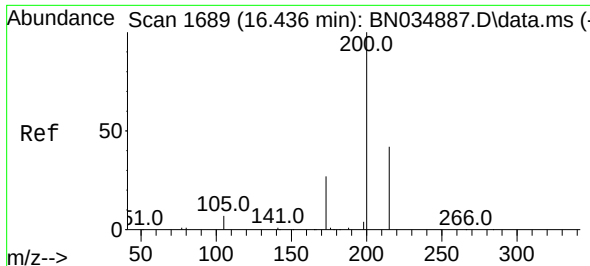
Tgt Ion:248 Resp: 3565
Ion Ratio Lower Upper
248 100
250 97.6 82.2 123.4
141 63.2 36.2 54.2#



#22
Hexachlorobenzene
Concen: 0.390 ng
RT: 16.269 min Scan# 1675
Delta R.T. 0.007 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:284 Resp: 4413
Ion Ratio Lower Upper
284 100
142 49.4 43.4 65.2
249 32.7 25.8 38.6

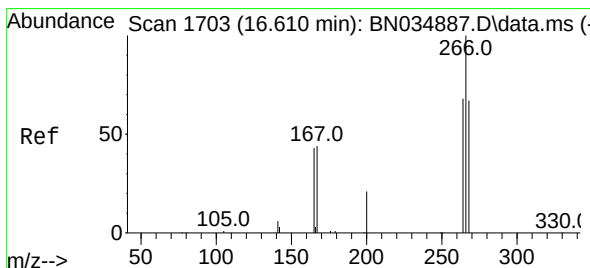
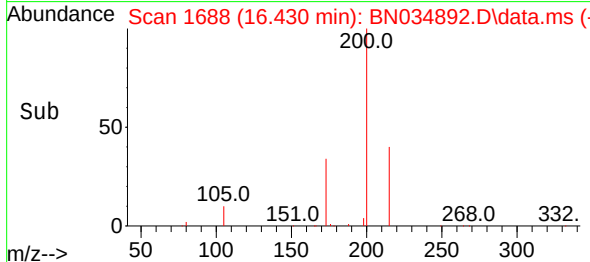
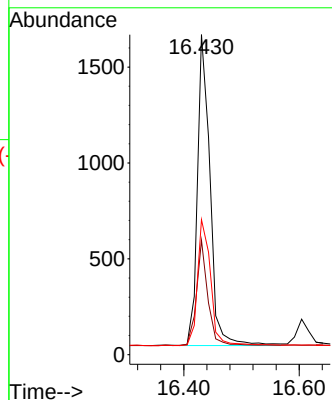
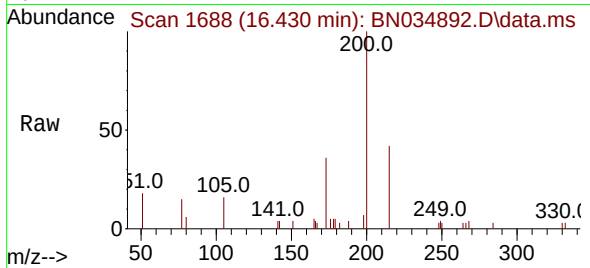




#23
Atrazine
Concen: 0.361 ng
RT: 16.430 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

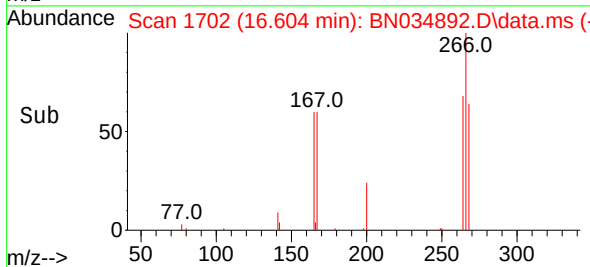
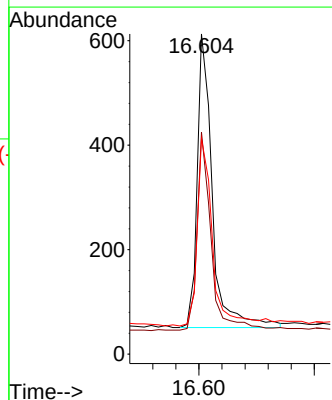
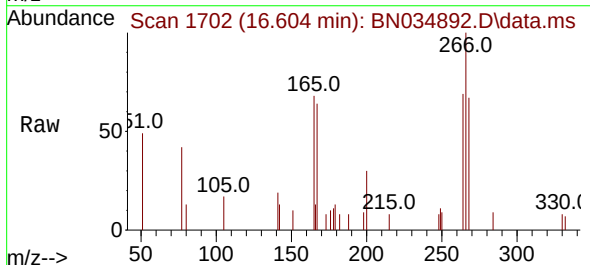
Instrument :
BNA_N
ClientSampleId :
ICVBN110724

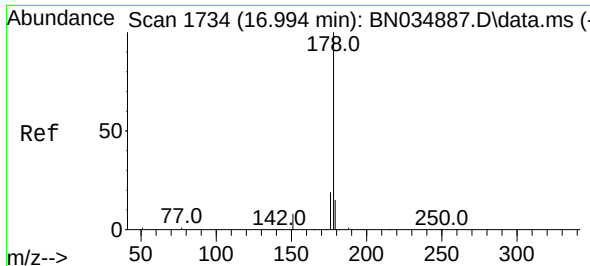
Tgt Ion:200 Resp: 2461
Ion Ratio Lower Upper
200 100
173 35.8 23.4 35.2#
215 42.2 35.4 53.0



#24
Pentachlorophenol
Concen: 0.373 ng
RT: 16.604 min Scan# 1702
Delta R.T. -0.006 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:266 Resp: 1024
Ion Ratio Lower Upper
266 100
264 62.6 51.3 76.9
268 66.9 53.0 79.6

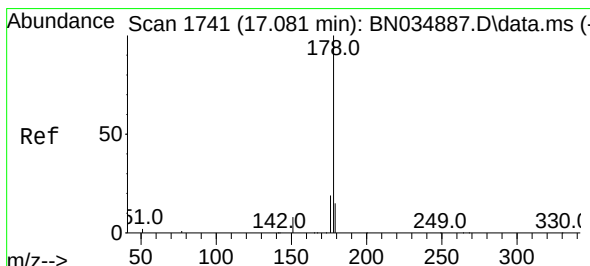
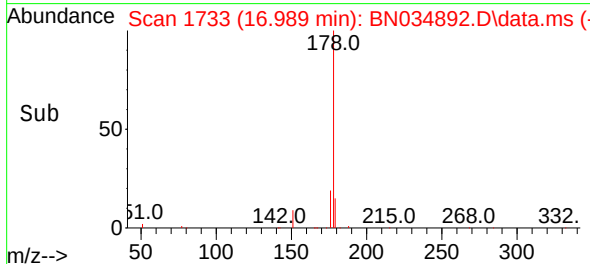
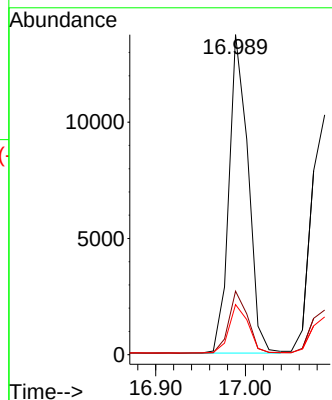
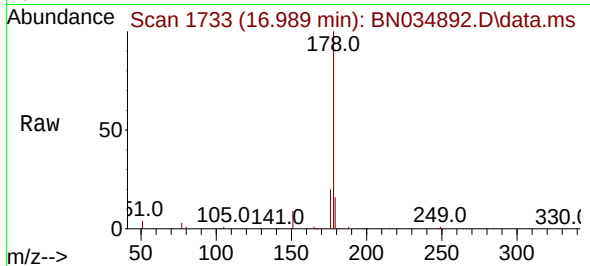




#25
Phenanthrene
Concen: 0.375 ng
RT: 16.989 min Scan# 1733
Delta R.T. -0.005 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

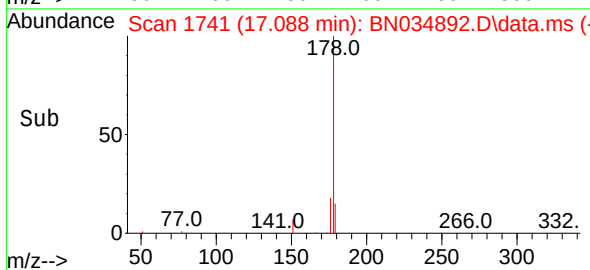
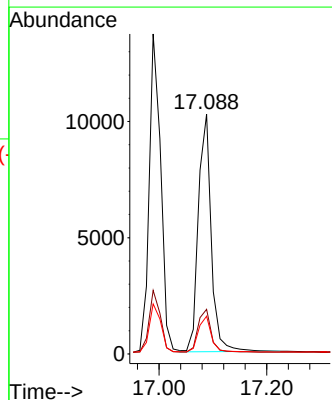
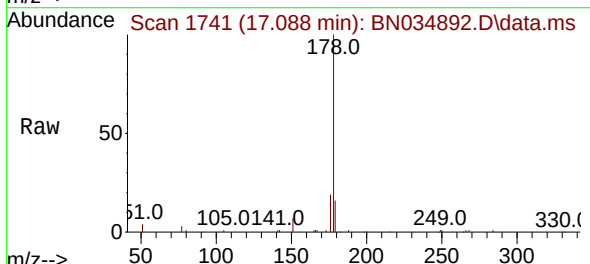
Instrument :
BNA_N
ClientSampleId :
ICVBN110724

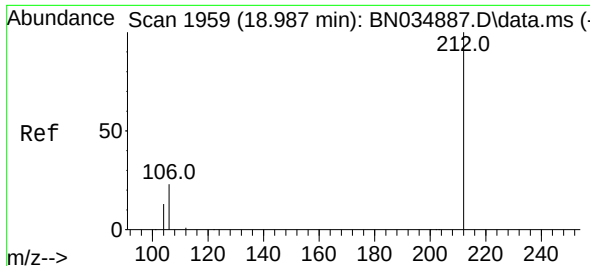
Tgt Ion:178 Resp: 20264
Ion Ratio Lower Upper
178 100
176 19.4 15.5 23.3
179 15.4 12.2 18.2



#26
Anthracene
Concen: 0.366 ng
RT: 17.088 min Scan# 1741
Delta R.T. 0.007 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:178 Resp: 17075
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.6
179 15.0 12.1 18.1

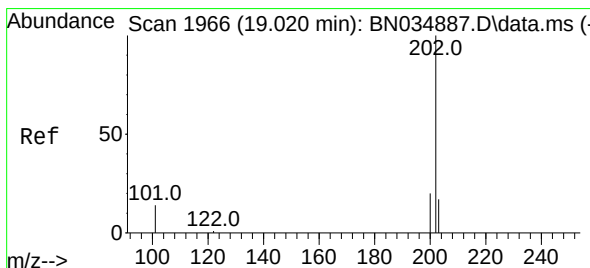
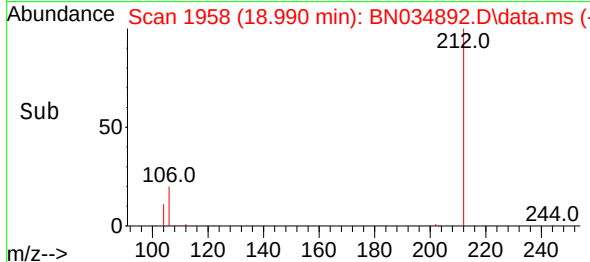
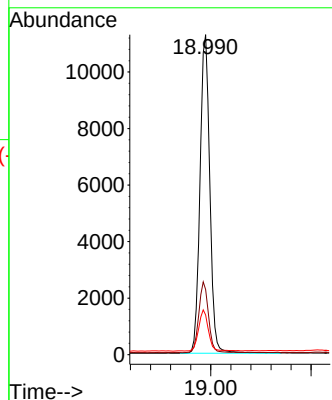
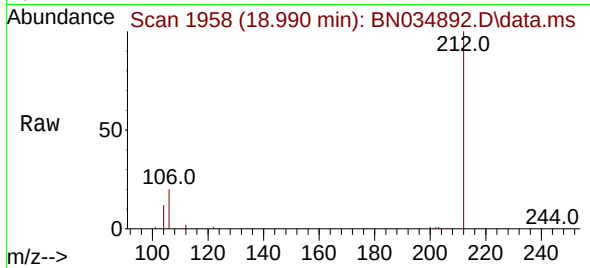




#27
Fluoranthene-d10
Concen: 0.383 ng
RT: 18.990 min Scan# 1958
Delta R.T. 0.002 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

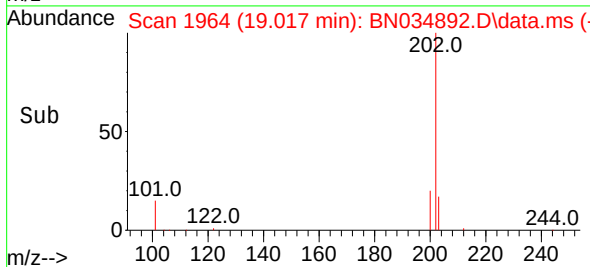
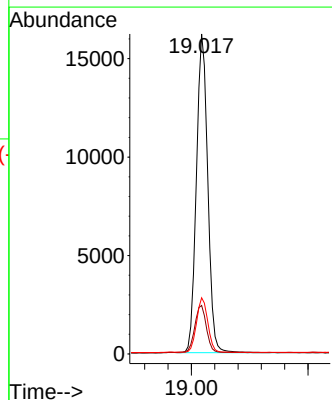
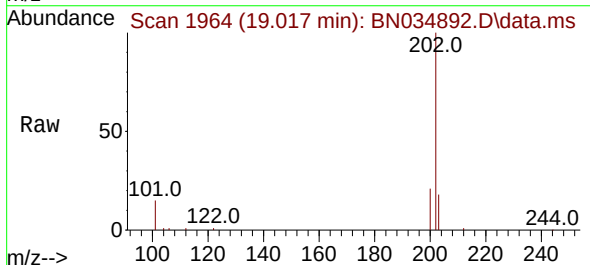
Instrument :
BNA_N
ClientSampleId :
ICVBN110724

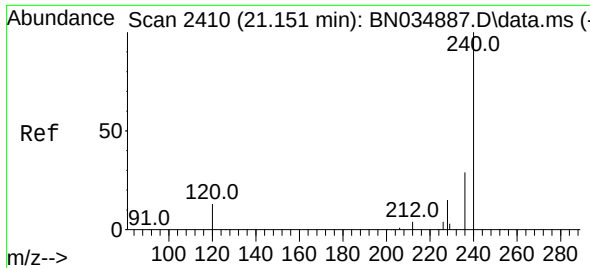
Tgt Ion:212 Resp: 15225
Ion Ratio Lower Upper
212 100
106 22.0 18.2 27.4
104 12.8 10.6 15.8



#28
Fluoranthene
Concen: 0.384 ng
RT: 19.017 min Scan# 1964
Delta R.T. -0.002 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:202 Resp: 21837
Ion Ratio Lower Upper
202 100
101 15.5 12.7 19.1
203 17.0 13.7 20.5

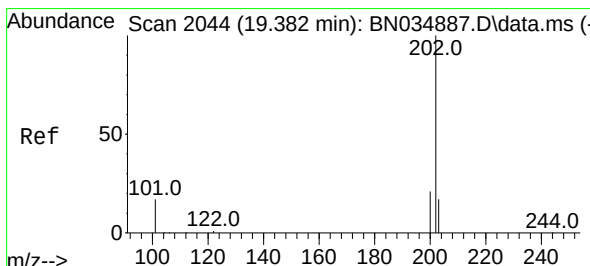
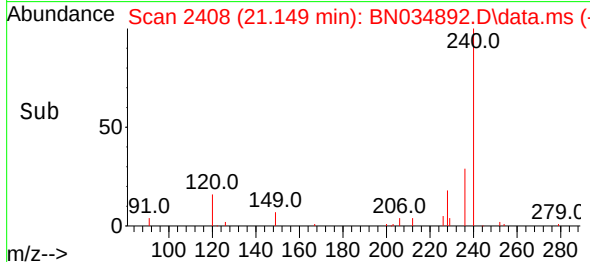
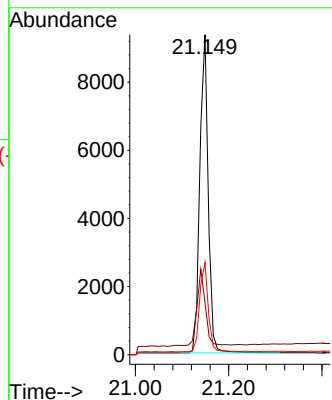
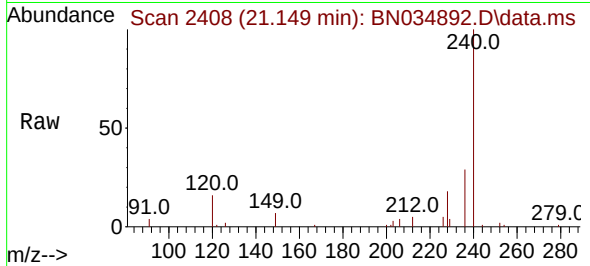




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.149 min Scan# 2408
Delta R.T. -0.002 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

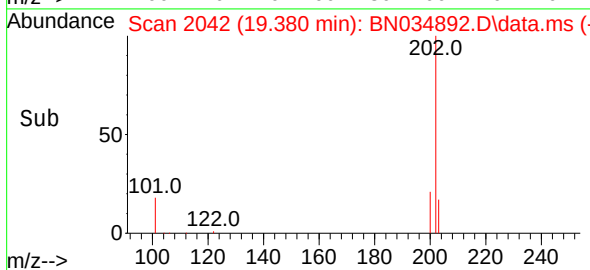
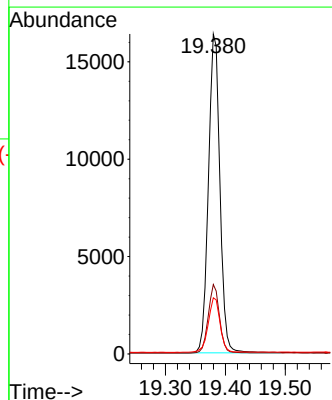
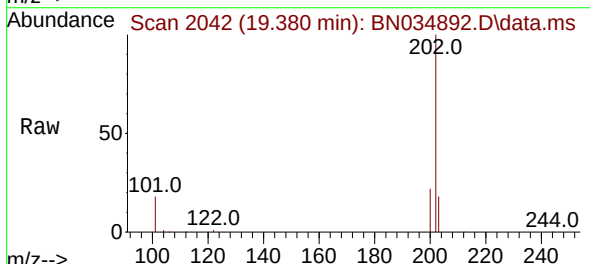
Instrument :
BNA_N
ClientSampleId :
ICVBN110724

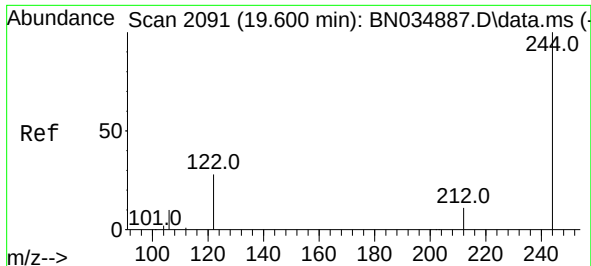
Tgt Ion:240 Resp: 11730
Ion Ratio Lower Upper
240 100
120 16.3 13.8 20.8
236 28.8 23.8 35.6



#30
Pyrene
Concen: 0.367 ng
RT: 19.380 min Scan# 2042
Delta R.T. -0.002 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:202 Resp: 21794
Ion Ratio Lower Upper
202 100
200 21.0 16.8 25.2
203 17.6 14.1 21.1

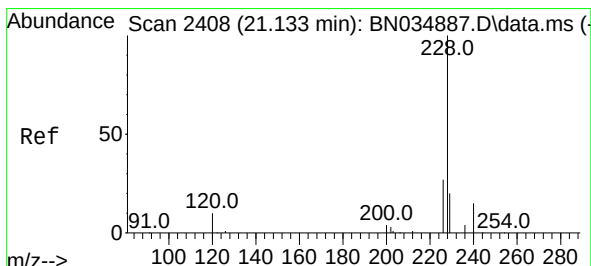
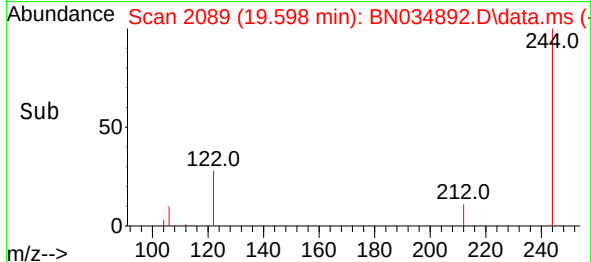
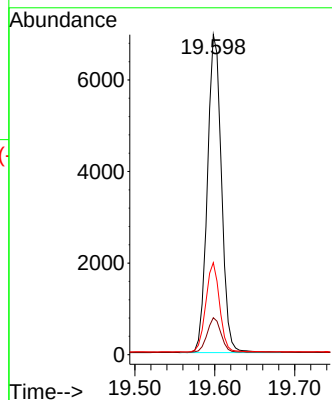
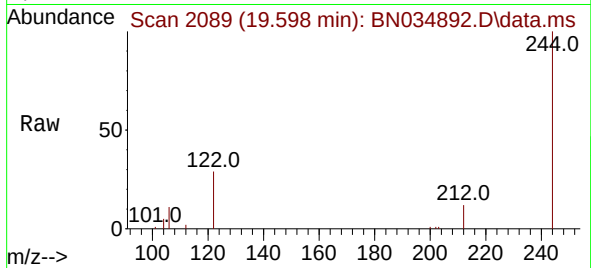




#31
Terphenyl-d14
Concen: 0.385 ng
RT: 19.598 min Scan# 2091
Delta R.T. -0.002 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

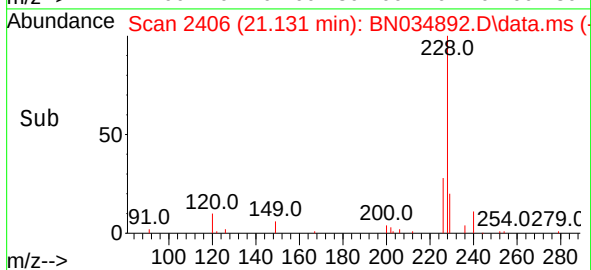
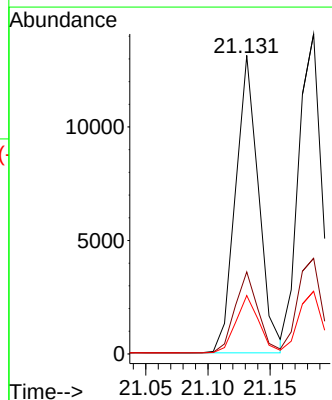
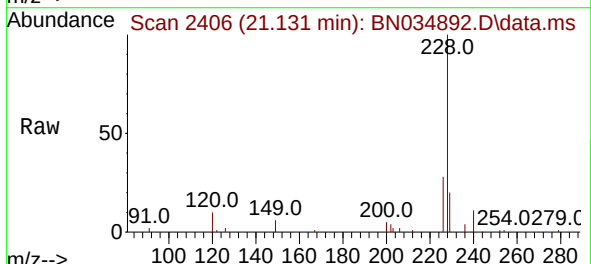
Instrument :
BNA_N
ClientSampleId :
ICVBN110724

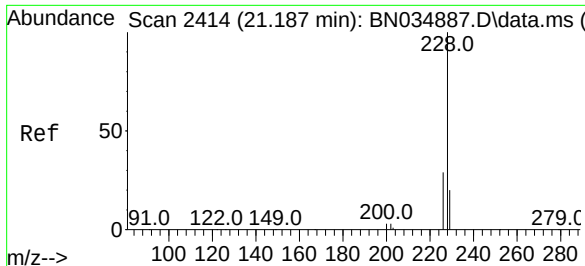
Tgt Ion:244 Resp: 8465
Ion Ratio Lower Upper
244 100
212 11.5 9.4 14.0
122 28.7 23.0 34.4



#32
Benzo(a)anthracene
Concen: 0.369 ng
RT: 21.131 min Scan# 2406
Delta R.T. -0.002 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:228 Resp: 16875
Ion Ratio Lower Upper
228 100
226 27.5 22.2 33.2
229 19.5 16.0 24.0

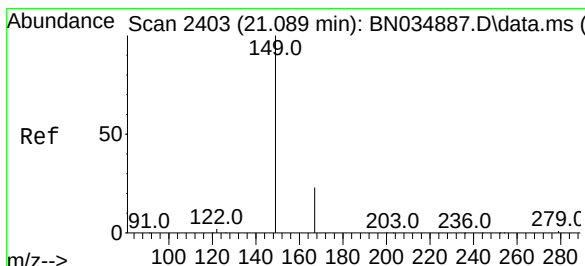
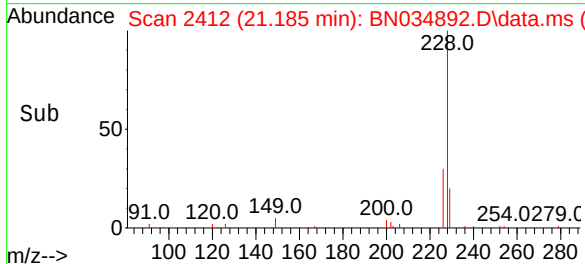
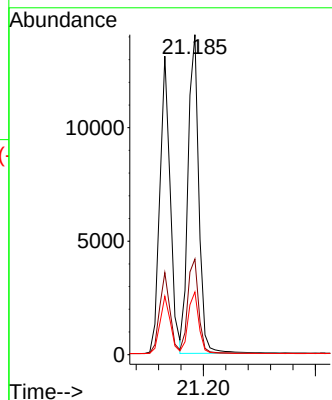
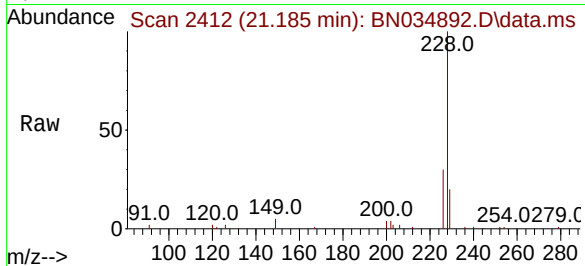




#33
Chrysene
Concen: 0.387 ng
RT: 21.185 min Scan# 2414
Delta R.T. -0.002 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

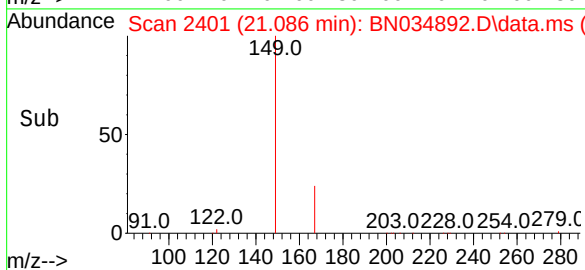
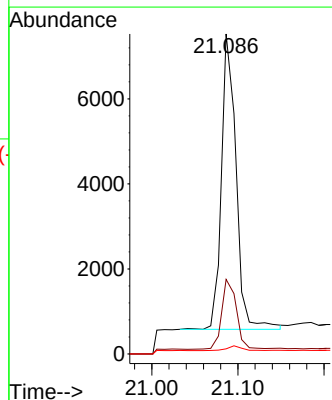
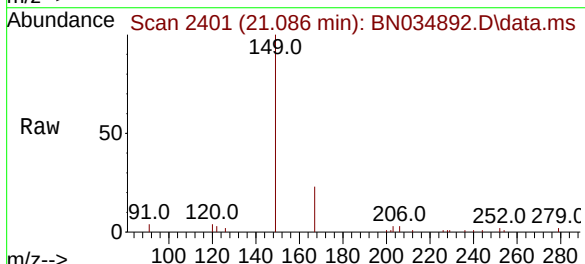
Instrument :
BNA_N
ClientSampleId :
ICVBN110724

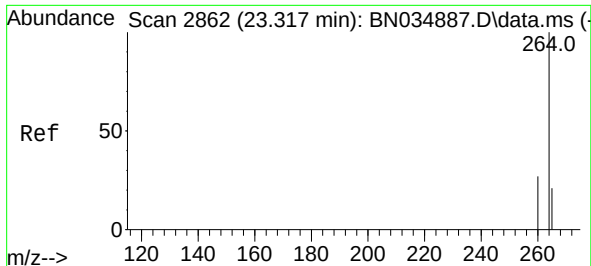
Tgt Ion:228 Resp: 18729
Ion Ratio Lower Upper
228 100
226 29.9 23.7 35.5
229 19.6 16.3 24.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.312 ng
RT: 21.086 min Scan# 2401
Delta R.T. -0.003 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:149 Resp: 8178
Ion Ratio Lower Upper
149 100
167 23.8 18.1 27.1
279 1.7 1.2 1.8

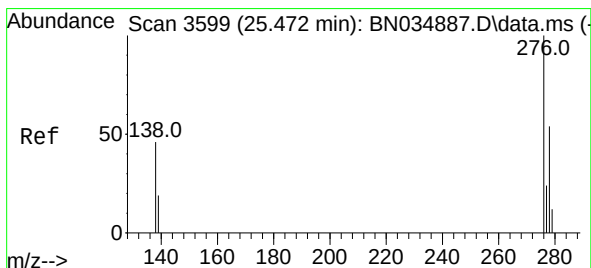
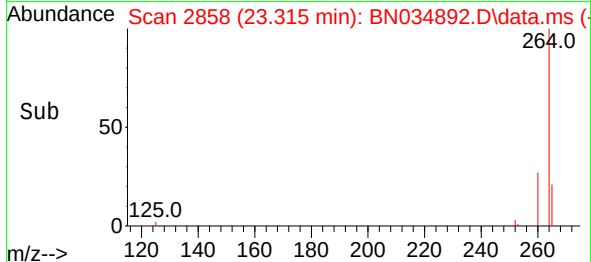
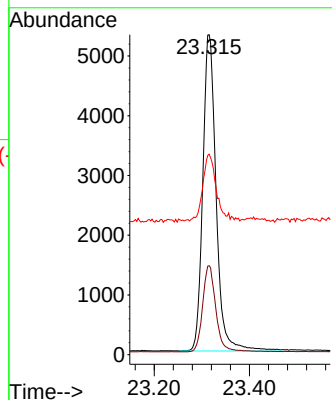
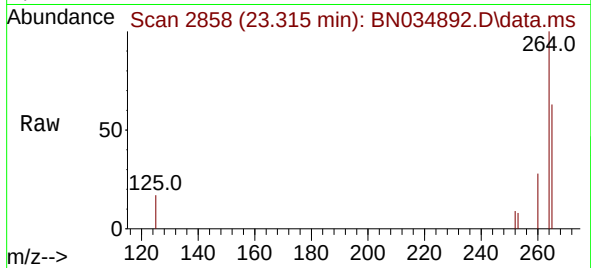




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.315 min Scan# 21
Delta R.T. -0.002 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

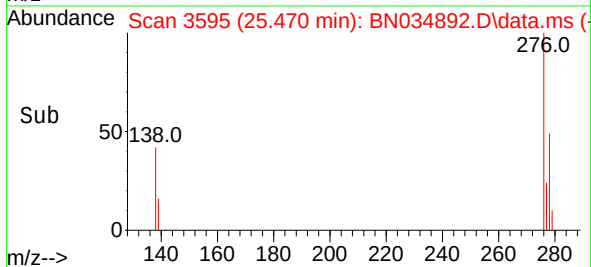
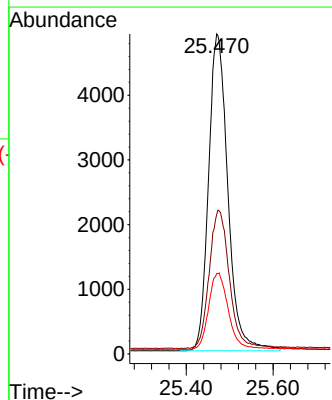
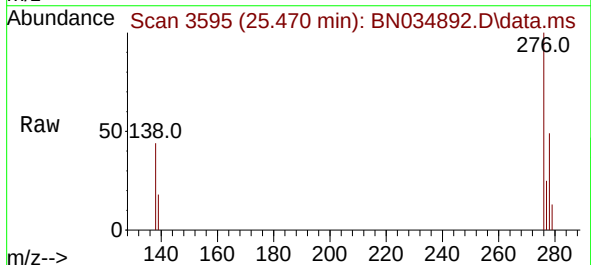
Instrument :
BNA_N
ClientSampleId :
ICVBN110724

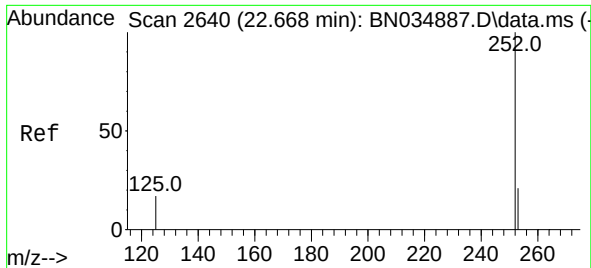
Tgt Ion:264 Resp: 10292
Ion Ratio Lower Upper
264 100
260 27.8 22.2 33.2
265 62.6 60.9 91.3



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.330 ng
RT: 25.470 min Scan# 3595
Delta R.T. -0.002 min
Lab File: BN034892.D
Acq: 07 Nov 2024 14:24

Tgt Ion:276 Resp: 15123
Ion Ratio Lower Upper
276 100
138 45.7 38.4 57.6
277 24.6 19.4 29.2





#37

Benzo(b)fluoranthene

Concen: 0.378 ng

RT: 22.669 min Scan# 2637

Delta R.T. 0.001 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

Instrument :

BNA_N

ClientSampleId :

ICVBN110724

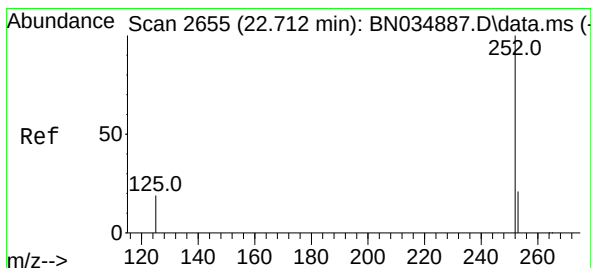
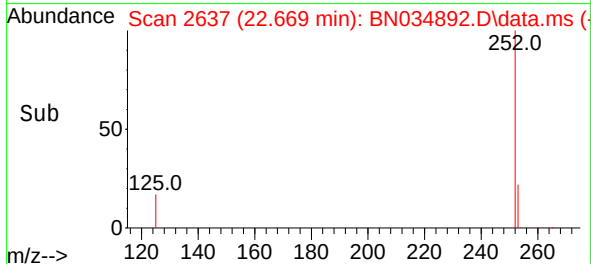
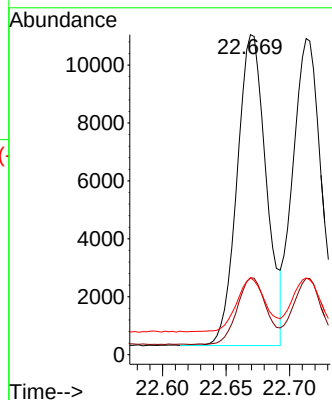
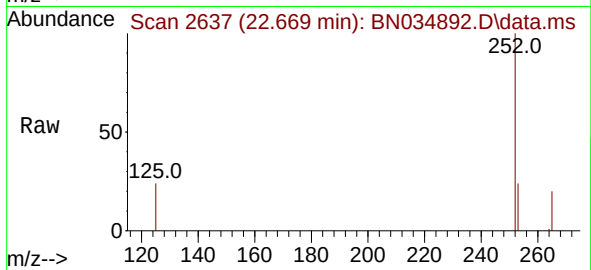
Tgt Ion:252 Resp: 17108

Ion Ratio Lower Upper

252 100

253 24.1 19.4 29.2

125 24.0 21.4 32.2



#38

Benzo(k)fluoranthene

Concen: 0.360 ng

RT: 22.713 min Scan# 2652

Delta R.T. 0.001 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

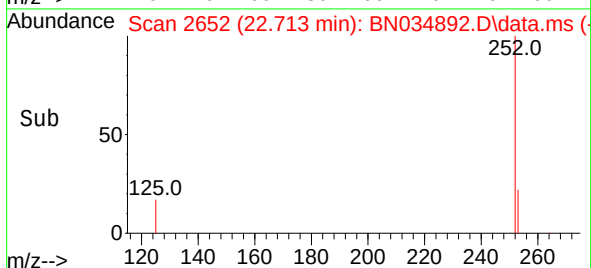
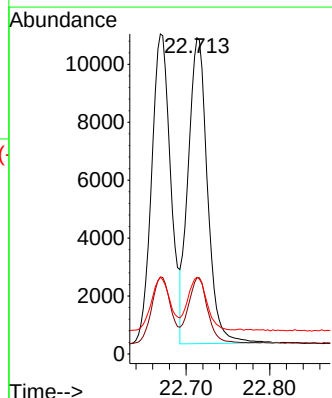
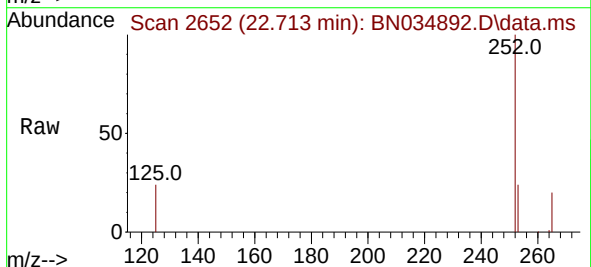
Tgt Ion:252 Resp: 16927

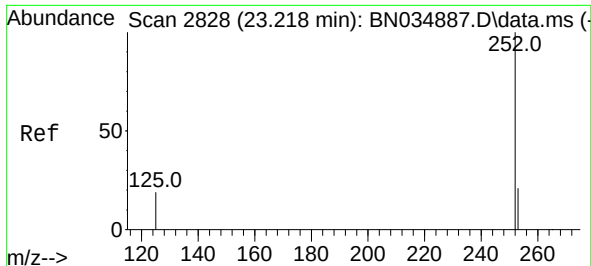
Ion Ratio Lower Upper

252 100

253 24.1 19.8 29.8

125 24.3 22.6 33.8





#39

Benzo(a)pyrene

Concen: 0.349 ng

RT: 23.219 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN034892.D

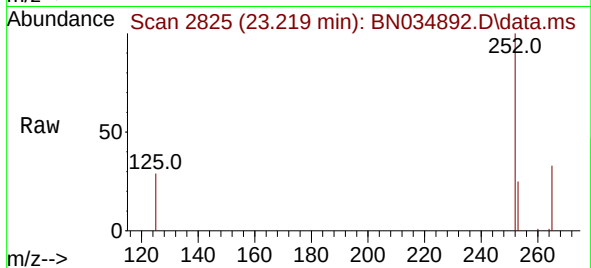
Acq: 07 Nov 2024 14:24

Instrument :

BNA_N

ClientSampleId :

ICVBN110724



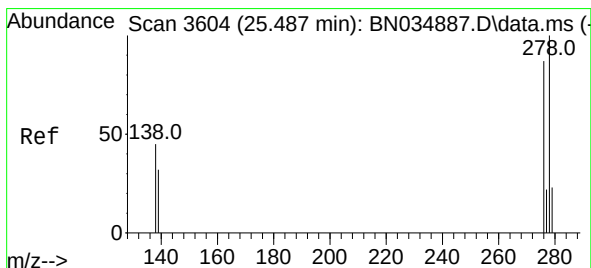
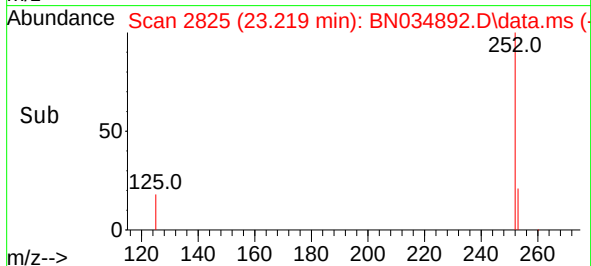
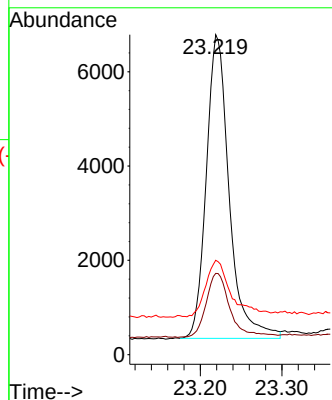
Tgt Ion:252 Resp: 12517

Ion Ratio Lower Upper

252 100

253 25.4 21.4 32.2

125 29.5 27.8 41.6



#40

Dibenzo(a,h)anthracene

Concen: 0.331 ng

RT: 25.491 min Scan# 3602

Delta R.T. 0.004 min

Lab File: BN034892.D

Acq: 07 Nov 2024 14:24

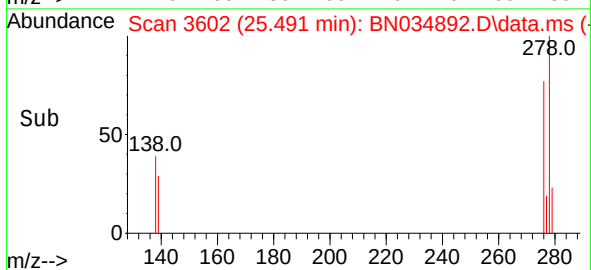
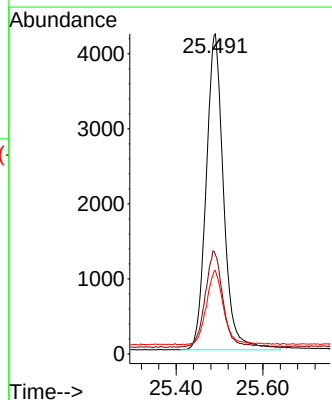
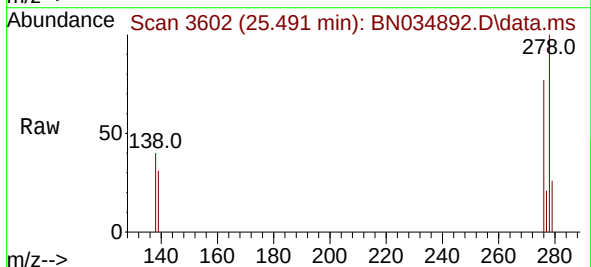
Tgt Ion:278 Resp: 11726

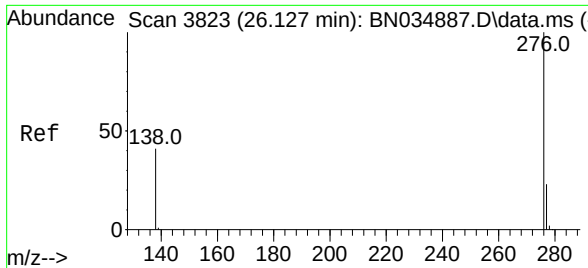
Ion Ratio Lower Upper

278 100

139 31.1 27.2 40.8

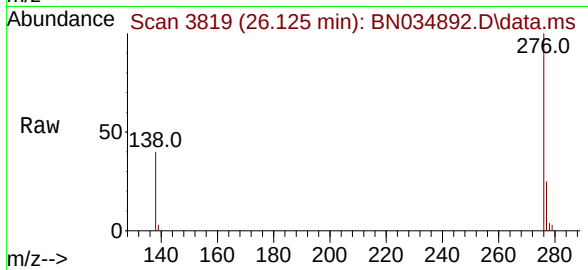
279 26.1 21.4 32.0



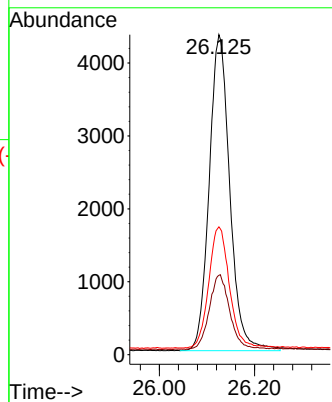
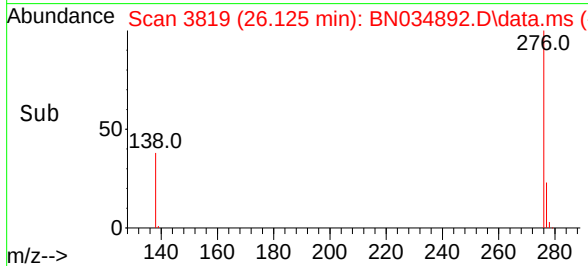


#41
 Benzo(g,h,i)perylene
 Concen: 0.345 ng
 RT: 26.125 min Scan# 3819
 Delta R.T. -0.002 min
 Lab File: BN034892.D
 Acq: 07 Nov 2024 14:24

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN110724



Tgt Ion:	276	Resp:	13002
Ion	Ratio	Lower	Upper
276	100		
277	24.8	20.2	30.2
138	40.0	33.9	50.9



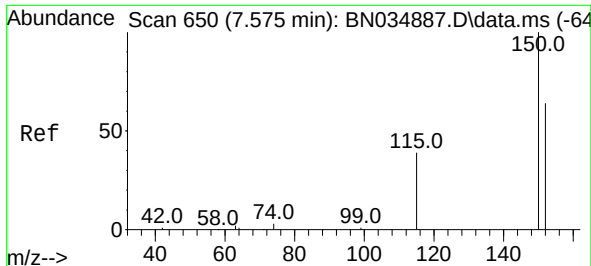
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110824\
 Data File : BN034898.D
 Acq On : 08 Nov 2024 08:29
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Nov 08 09:57:12 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN110724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 07 15:02:36 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	6102	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	18171	0.400	ng	0.00
13) Acenaphthene-d10	14.201	164	8711	0.400	ng	-0.01
19) Phenanthrene-d10	16.957	188	17291	0.400	ng	0.00
29) Chrysene-d12	21.143	240	11255	0.400	ng	# 0.00
35) Perylene-d12	23.315	264	9481	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.199	112	5933	0.349	ng	0.00
5) Phenol-d6	6.752	99	8011	0.355	ng	0.00
8) Nitrobenzene-d5	8.707	82	5062	0.357	ng	0.00
11) 2-Methylnaphthalene-d10	11.935	152	9015	0.364	ng	0.00
14) 2,4,6-Tribromophenol	15.704	330	854	0.375	ng	0.00
15) 2-Fluorobiphenyl	12.822	172	13376	0.364	ng	-0.01
27) Fluoranthene-d10	18.987	212	14727	0.378	ng	0.00
31) Terphenyl-d14	19.601	244	7841	0.372	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.184	88	2791	0.362	ng	100
3) n-Nitrosodimethylamine	3.487	42	3715	0.357	ng	# 96
6) bis(2-Chloroethyl)ether	7.012	93	7371	0.378	ng	98
9) Naphthalene	10.383	128	18988	0.377	ng	100
10) Hexachlorobutadiene	10.682	225	3080	0.383	ng	# 98
12) 2-Methylnaphthalene	12.011	142	11374	0.369	ng	99
16) Acenaphthylene	13.923	152	14701	0.350	ng	99
17) Acenaphthene	14.265	154	10362	0.356	ng	99
18) Fluorene	15.259	166	13094	0.362	ng	99
20) 4,6-Dinitro-2-methylph...	15.334	198	538	0.355	ng	94
21) 4-Bromophenyl-phenylether	16.151	248	3355	0.364	ng	# 63
22) Hexachlorobenzene	16.262	284	4416	0.398	ng	98
23) Atrazine	16.436	200	2322	0.348	ng	99
24) Pentachlorophenol	16.610	266	1123	0.410	ng	97
25) Phenanthrene	16.995	178	20416	0.385	ng	100
26) Anthracene	17.082	178	16914	0.370	ng	100
28) Fluoranthene	19.020	202	21528	0.386	ng	100
30) Pyrene	19.382	202	21506	0.377	ng	100
32) Benzo(a)anthracene	21.134	228	16690	0.380	ng	98
33) Chrysene	21.178	228	18283	0.394	ng	96
34) Bis(2-ethylhexyl)phtha...	21.089	149	7924	0.315	ng	100
36) Indeno(1,2,3-cd)pyrene	25.472	276	15511	0.367	ng	99
37) Benzo(b)fluoranthene	22.669	252	17145	0.412	ng	97
38) Benzo(k)fluoranthene	22.712	252	17383	0.401	ng	96
39) Benzo(a)pyrene	23.221	252	12460	0.377	ng	94
40) Dibenzo(a,h)anthracene	25.484	278	11910	0.364	ng	99
41) Benzo(g,h,i)perylene	26.127	276	13103	0.378	ng	100

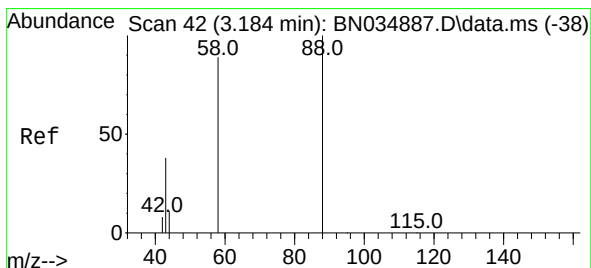
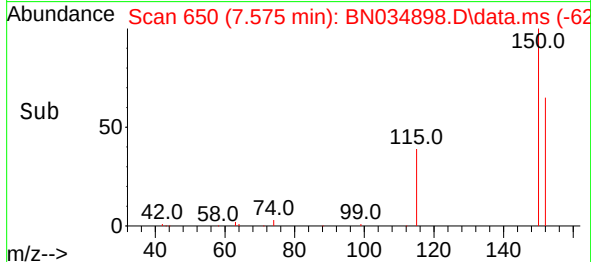
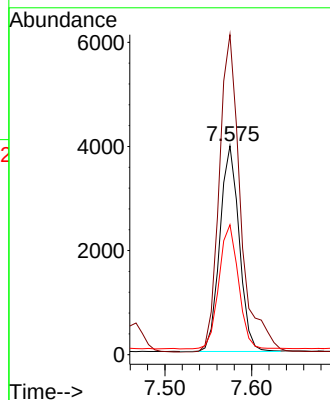
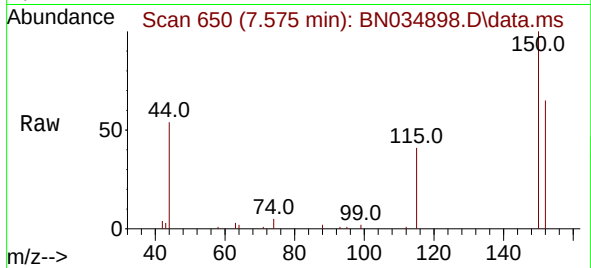
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN034898.D
 Acq: 08 Nov 2024 08:29

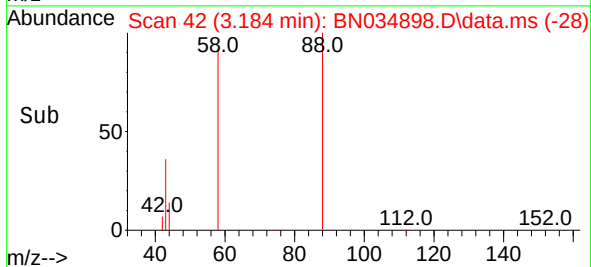
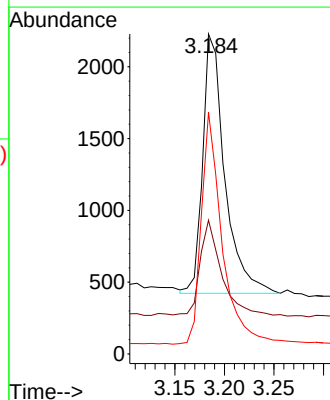
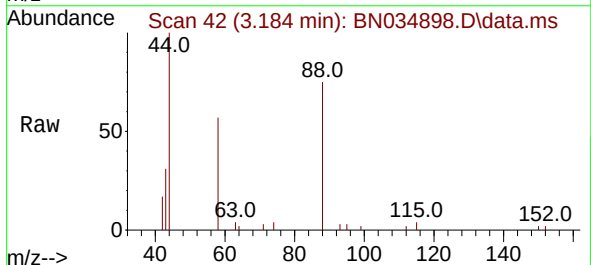
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

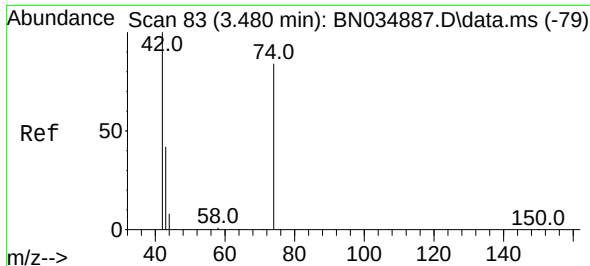
Tgt Ion:152 Resp: 6102
 Ion Ratio Lower Upper
 152 100
 150 153.3 124.4 186.6
 115 62.3 50.5 75.7



#2
 1,4-Dioxane
 Concen: 0.362 ng
 RT: 3.184 min Scan# 42
 Delta R.T. 0.000 min
 Lab File: BN034898.D
 Acq: 08 Nov 2024 08:29

Tgt Ion: 88 Resp: 2791
 Ion Ratio Lower Upper
 88 100
 43 34.8 28.2 42.2
 58 84.1 67.1 100.7

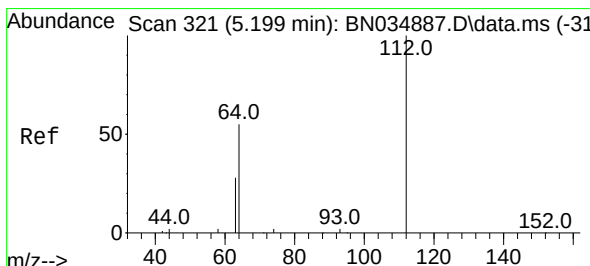
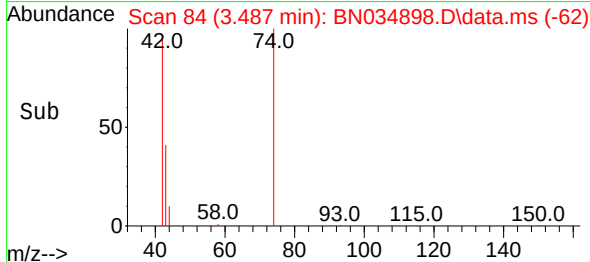
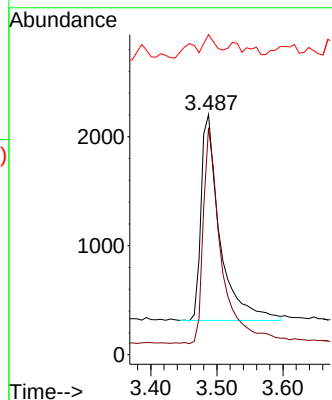
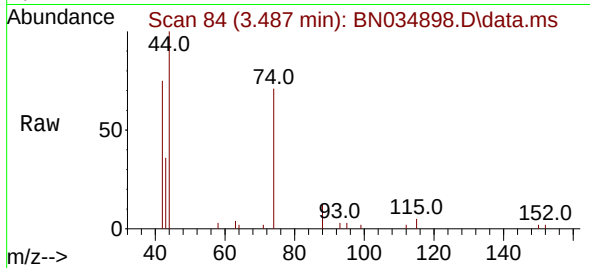




#3
n-Nitrosodimethylamine
Concen: 0.357 ng
RT: 3.487 min Scan# 84
Delta R.T. 0.007 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

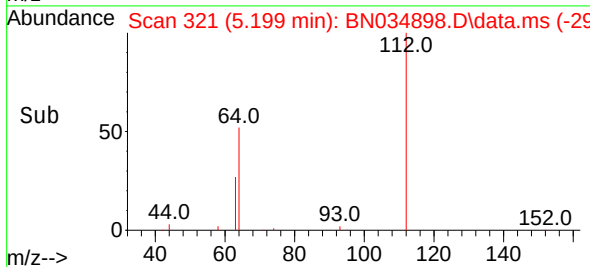
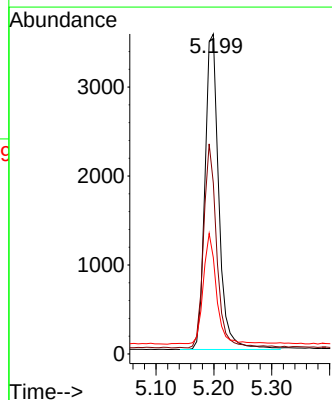
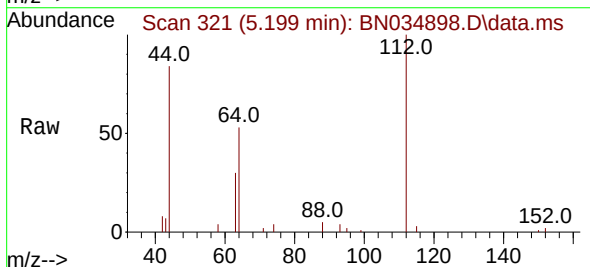
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

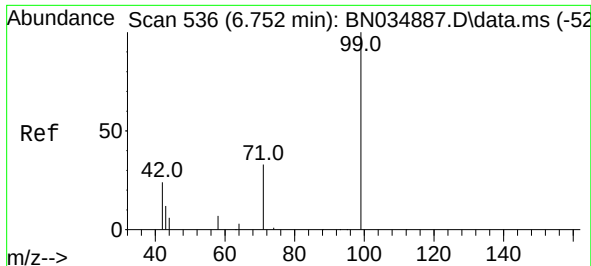
Tgt Ion: 42 Resp: 3715
Ion Ratio Lower Upper
42 100
74 101.2 83.4 125.2
44 5.6 8.6 12.8#



#4
2-Fluorophenol
Concen: 0.349 ng
RT: 5.199 min Scan# 321
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion: 112 Resp: 5933
Ion Ratio Lower Upper
112 100
64 60.9 49.6 74.4
63 33.7 26.3 39.5

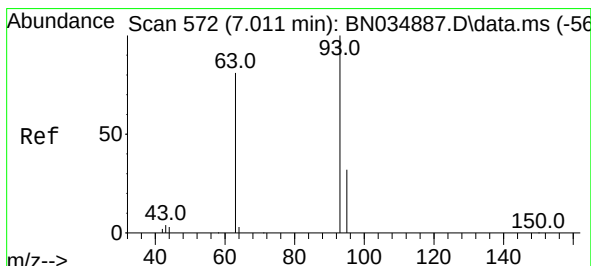
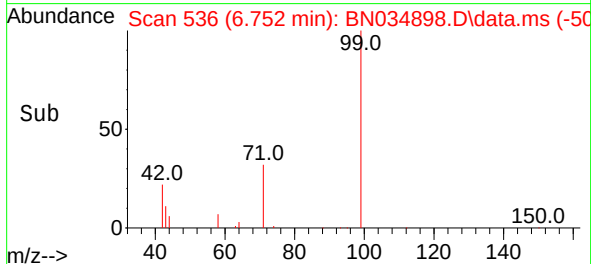
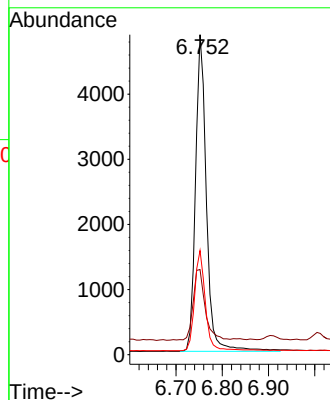
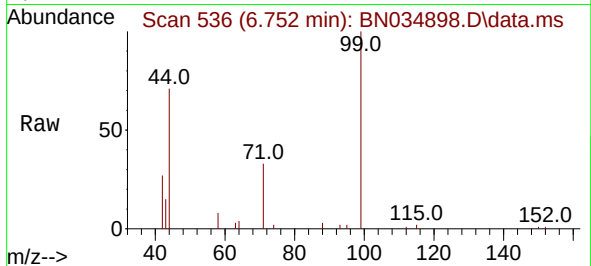




#5
Phenol-d6
Concen: 0.355 ng
RT: 6.752 min Scan# 536
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

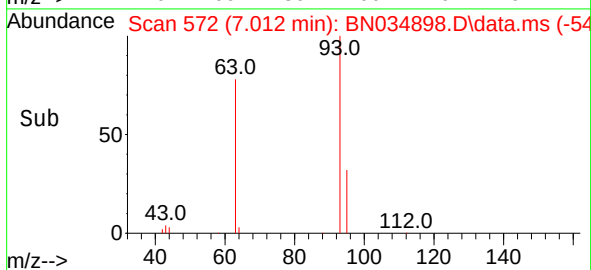
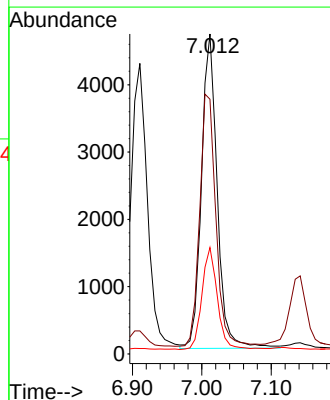
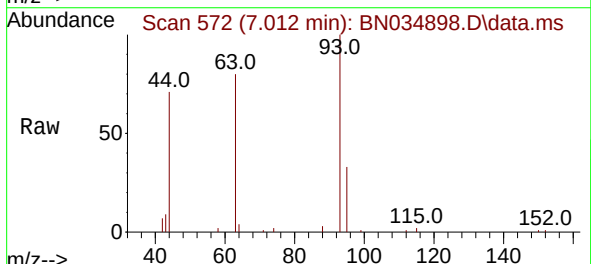
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

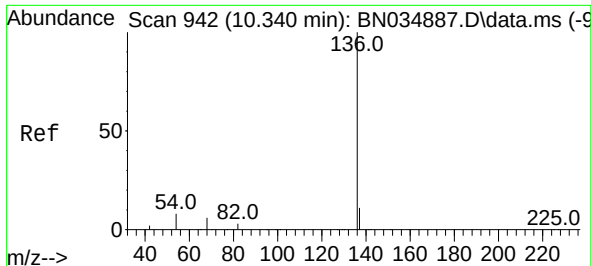
Tgt Ion:	99	Resp:	8011
Ion	Ratio	Lower	Upper
99	100		
42	24.7	20.2	30.2
71	31.4	25.4	38.0



#6
bis(2-Chloroethyl)ether
Concen: 0.378 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:	93	Resp:	7371
Ion	Ratio	Lower	Upper
93	100		
63	82.3	67.5	101.3
95	31.7	25.7	38.5

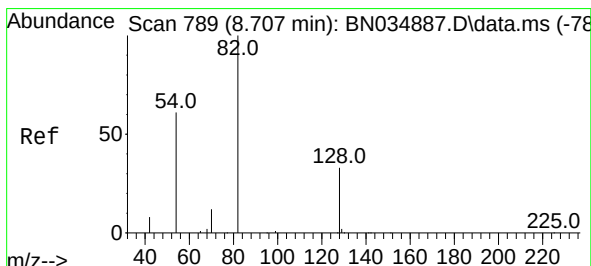
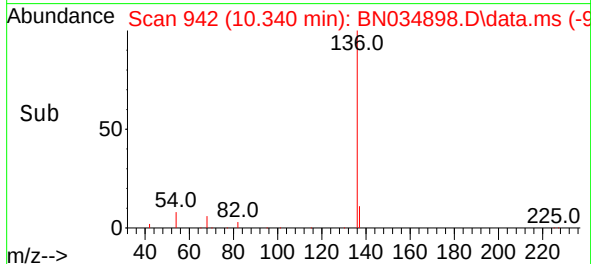
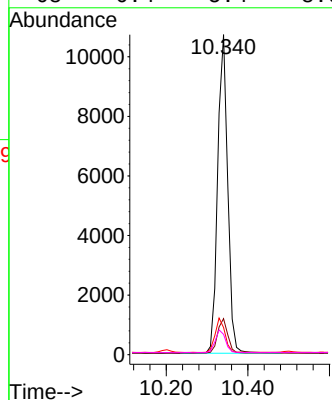
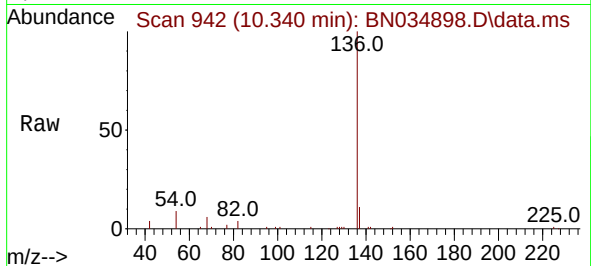




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

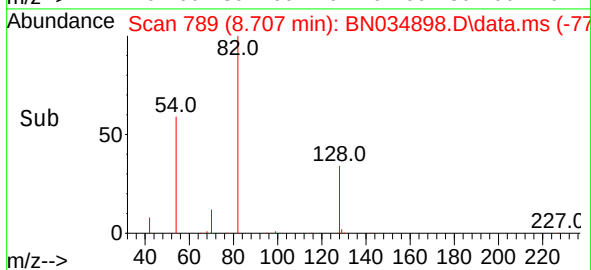
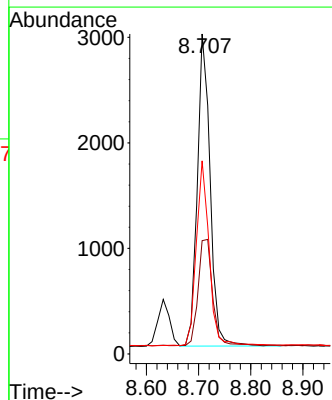
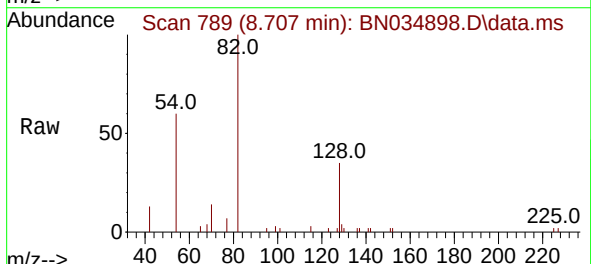
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

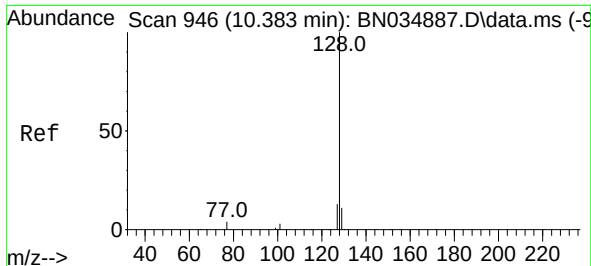
Tgt Ion:	136	Resp:	18171
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	8.5	6.9	10.3
68	6.4	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.357 ng
RT: 8.707 min Scan# 789
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:	82	Resp:	5062
Ion Ratio	Lower	Upper	
82	100		
128	35.4	28.1	42.1
54	60.4	49.8	74.6

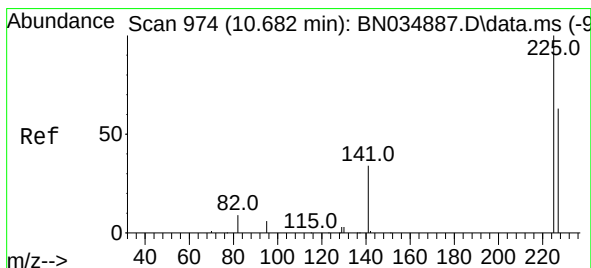
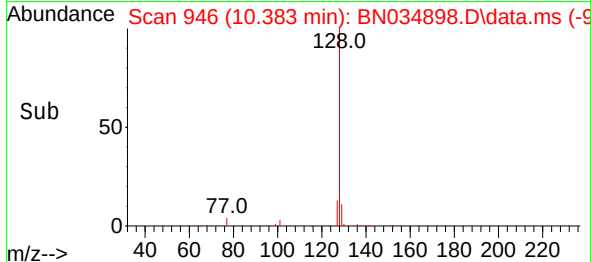
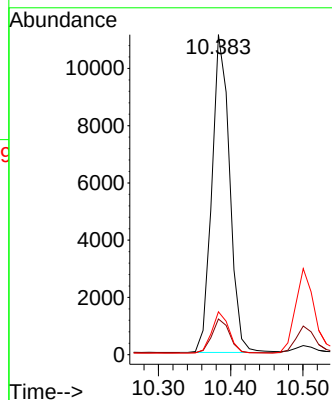
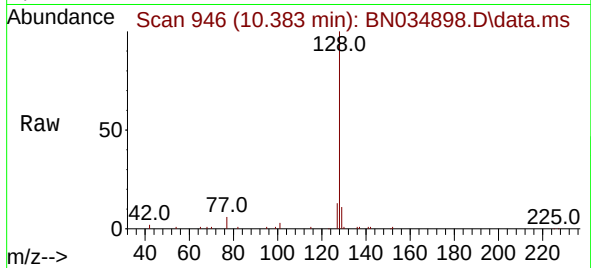




#9
Naphthalene
Concen: 0.377 ng
RT: 10.383 min Scan# 946
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

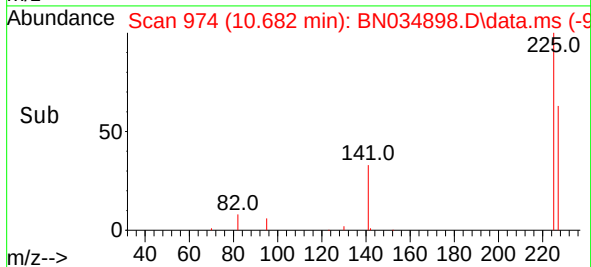
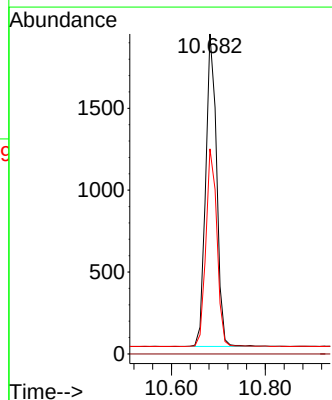
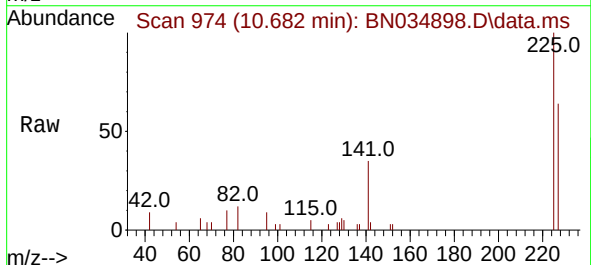
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

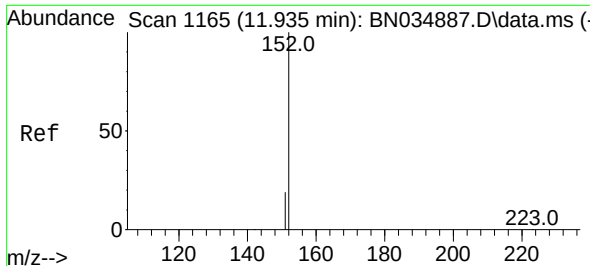
Tgt Ion:128 Resp: 18988
Ion Ratio Lower Upper
128 100
129 11.2 9.0 13.4
127 13.4 10.8 16.2



#10
Hexachlorobutadiene
Concen: 0.383 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:225 Resp: 3080
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 52.0 78.0





#11

2-Methylnaphthalene-d10

Concen: 0.364 ng

RT: 11.935 min Scan# 1165

Delta R.T. 0.000 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

Instrument :

BNA_N

ClientSampleId :

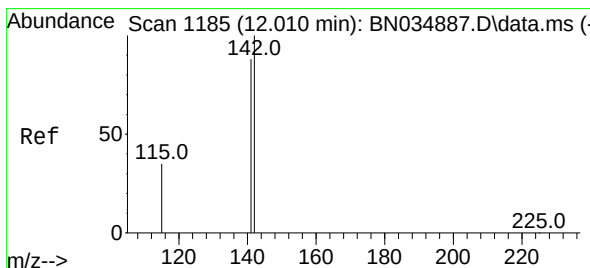
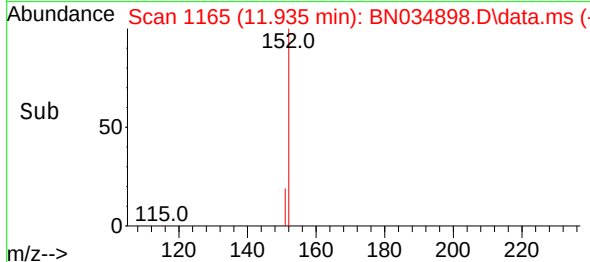
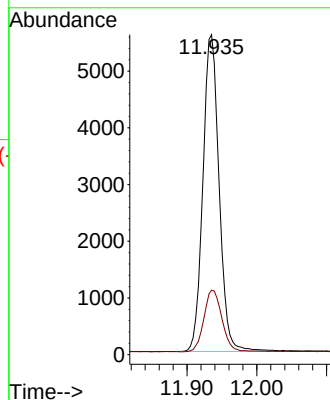
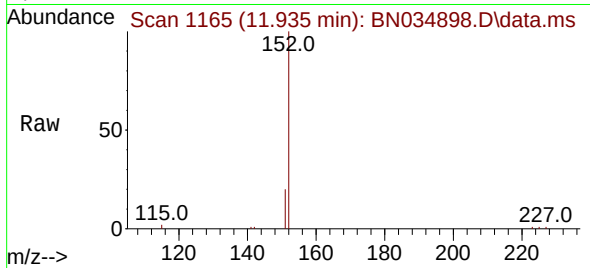
SSTDCCC0.4

Tgt Ion:152 Resp: 9015

Ion Ratio Lower Upper

152 100

151 21.6 17.1 25.7



#12

2-Methylnaphthalene

Concen: 0.369 ng

RT: 12.011 min Scan# 1185

Delta R.T. 0.000 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

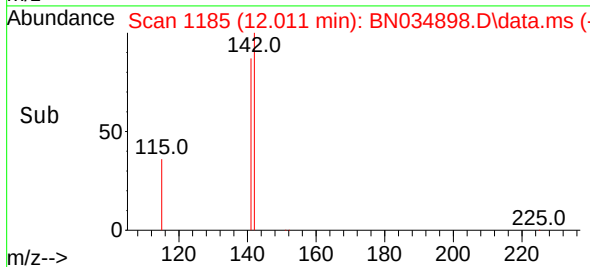
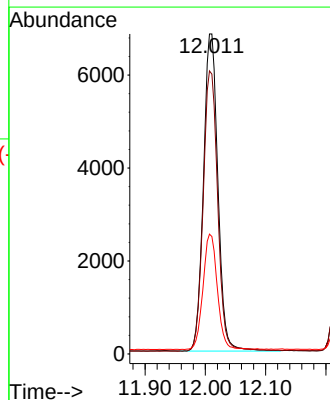
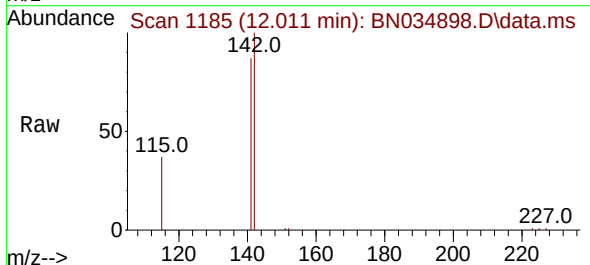
Tgt Ion:142 Resp: 11374

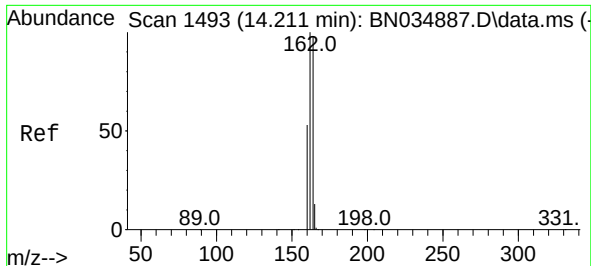
Ion Ratio Lower Upper

142 100

141 87.5 70.5 105.7

115 36.7 29.4 44.2

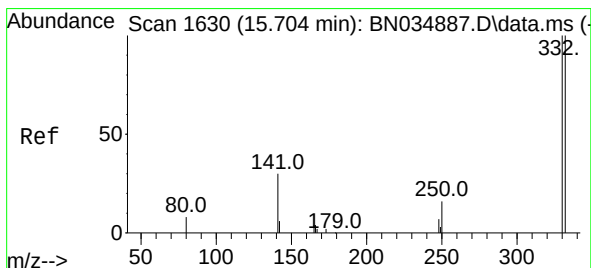
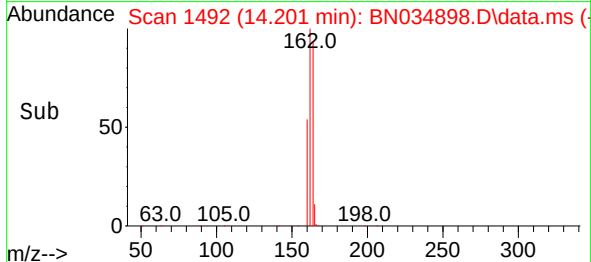
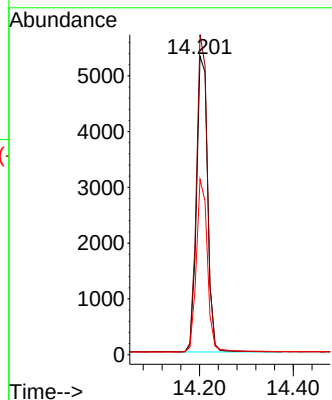
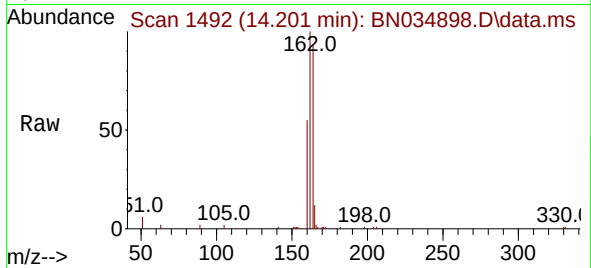




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.201 min Scan# 1492
Delta R.T. -0.010 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

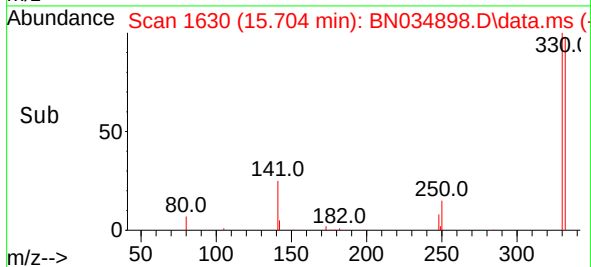
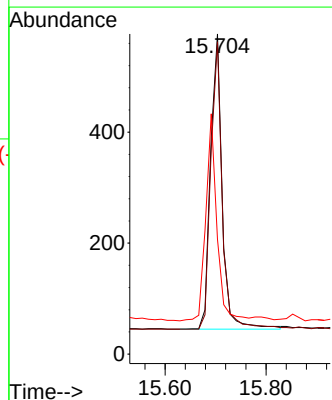
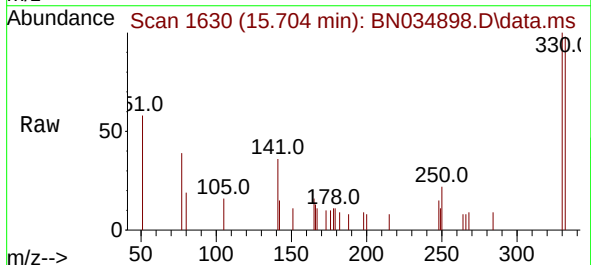
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

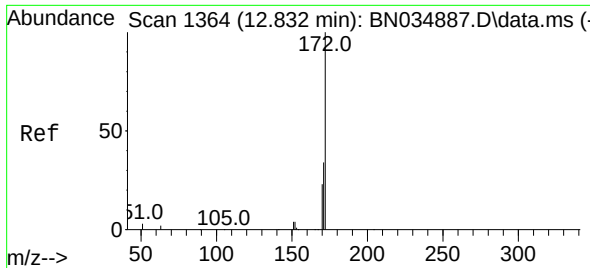
Tgt Ion:164 Resp: 8711
Ion Ratio Lower Upper
164 100
162 107.2 81.9 122.9
160 58.8 43.5 65.3



#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.704 min Scan# 1630
Delta R.T. -0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:330 Resp: 854
Ion Ratio Lower Upper
330 100
332 95.6 77.1 115.7
141 66.2 54.1 81.1

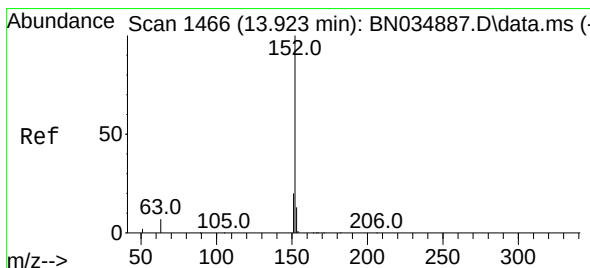
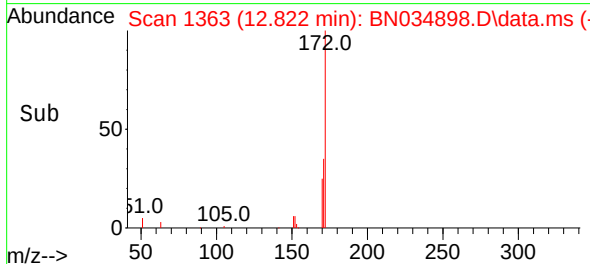
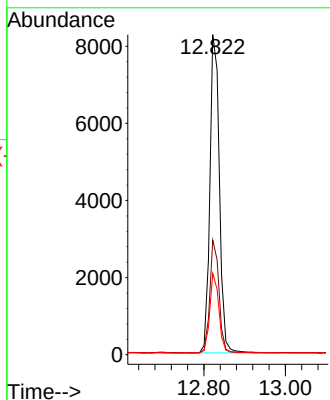
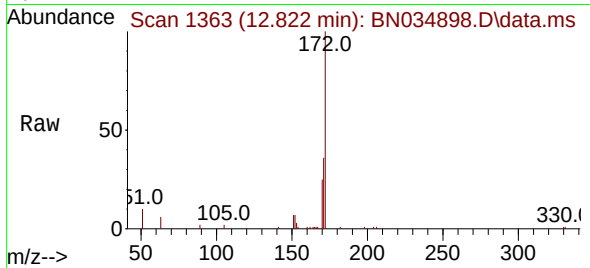




#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 12.822 min Scan# 1363
Delta R.T. -0.010 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

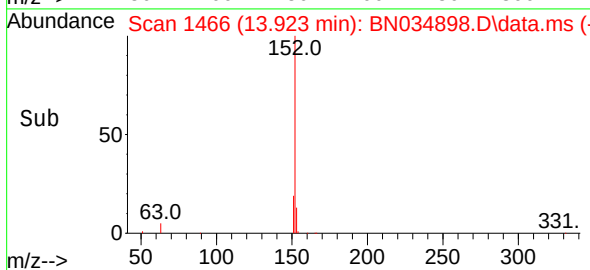
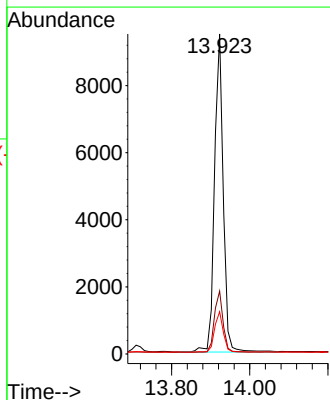
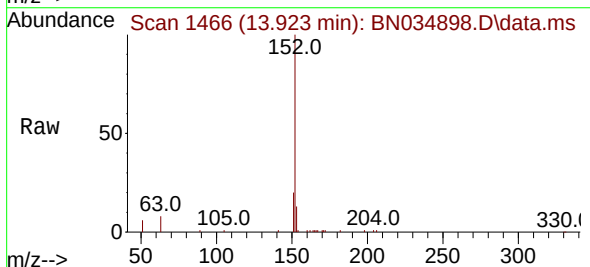
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

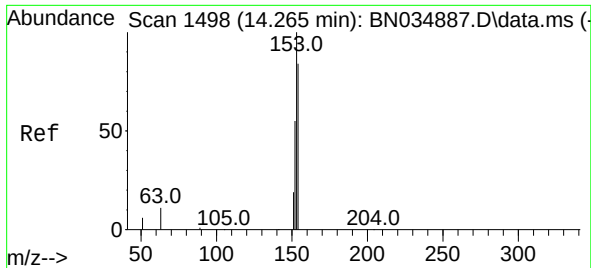
Tgt Ion:	172	Resp:	13376
Ion Ratio	Lower	Upper	
172	100		
171	35.8	27.9	41.9
170	25.4	19.0	28.4



#16
Acenaphthylene
Concen: 0.350 ng
RT: 13.923 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:	152	Resp:	14701
Ion Ratio	Lower	Upper	
152	100		
151	19.1	15.2	22.8
153	12.7	10.4	15.6

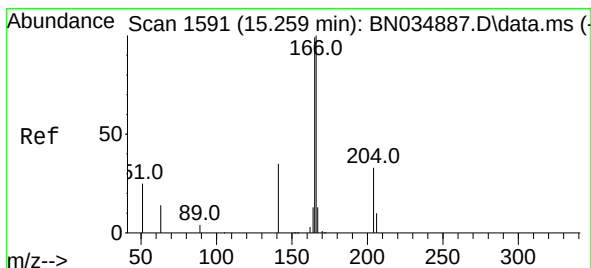
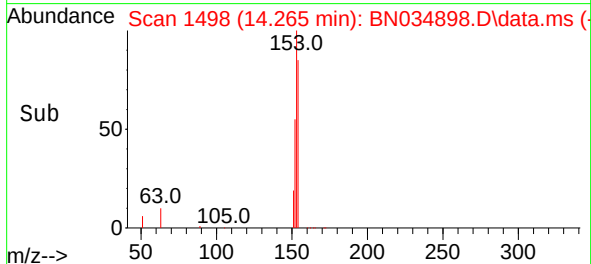
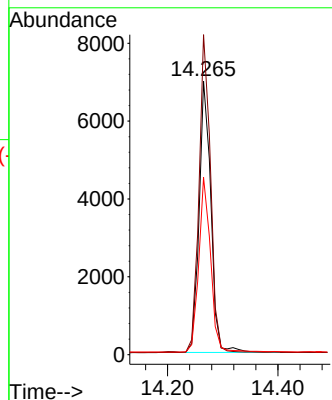
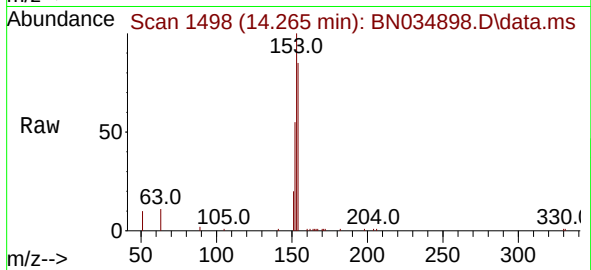




#17
Acenaphthene
Concen: 0.356 ng
RT: 14.265 min Scan# 1498
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

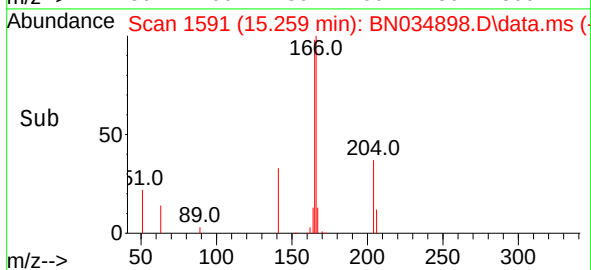
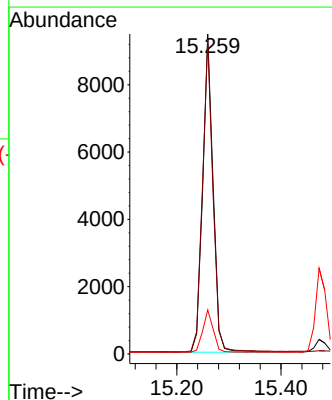
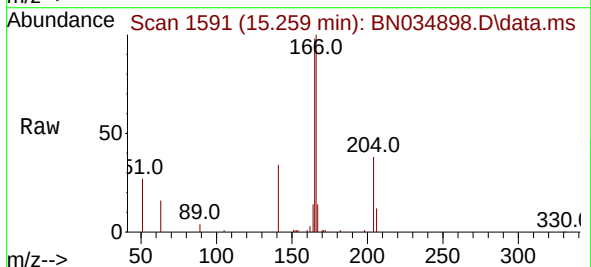
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

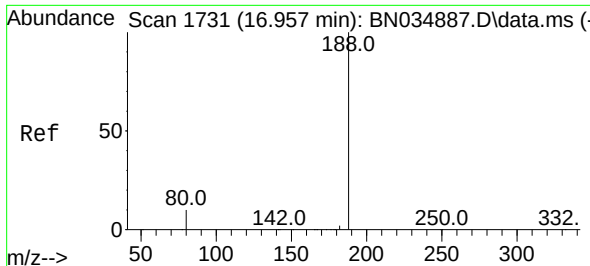
Tgt Ion:154 Resp: 10362
Ion Ratio Lower Upper
154 100
153 115.3 92.2 138.2
152 64.9 51.1 76.7



#18
Fluorene
Concen: 0.362 ng
RT: 15.259 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:166 Resp: 13094
Ion Ratio Lower Upper
166 100
165 98.8 79.5 119.3
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.957 min Scan# 1731

Delta R.T. 0.000 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

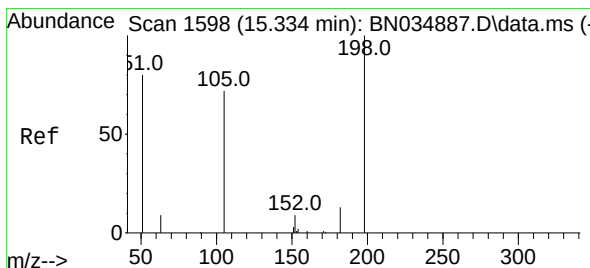
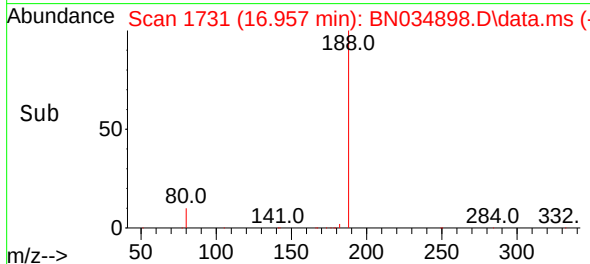
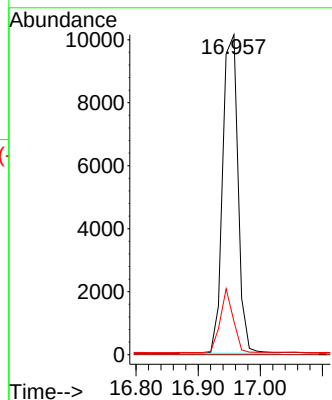
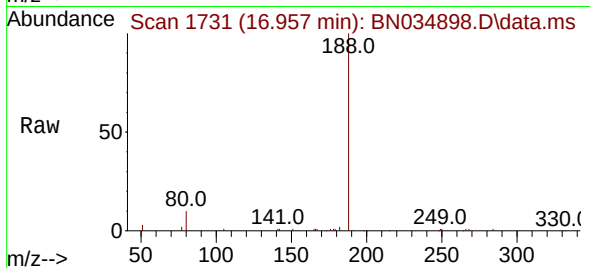
Tgt Ion:188 Resp: 17291

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.4 8.6 12.8



#20

4,6-Dinitro-2-methylphenol

Concen: 0.355 ng

RT: 15.334 min Scan# 1598

Delta R.T. 0.000 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

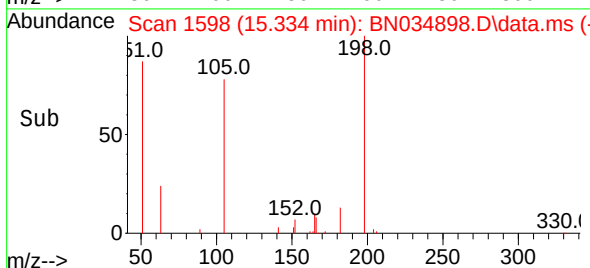
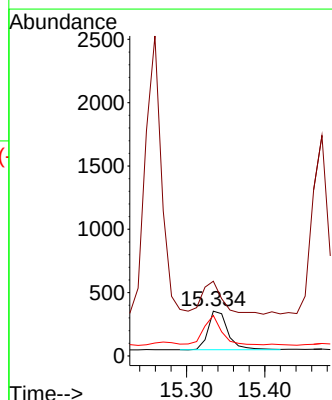
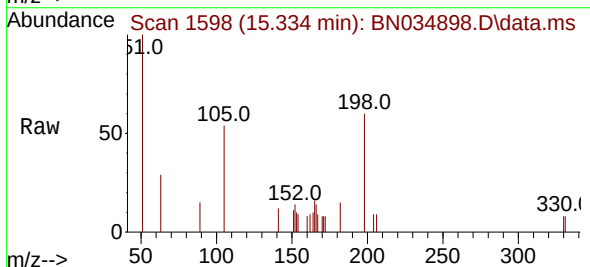
Tgt Ion:198 Resp: 538

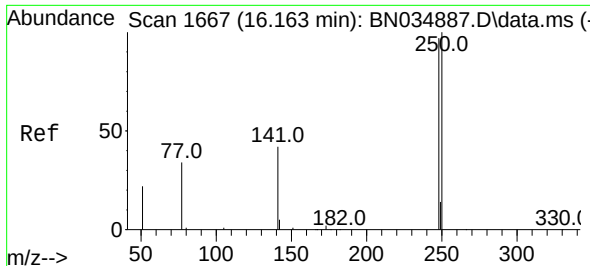
Ion Ratio Lower Upper

198 100

51 166.7 141.8 212.8

105 90.4 75.6 113.4

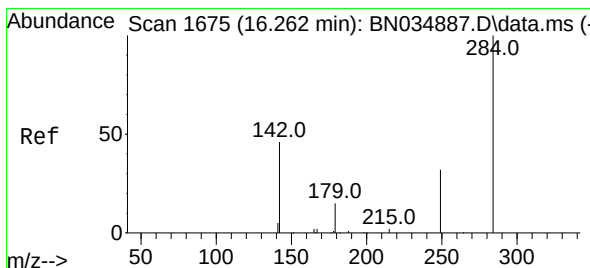
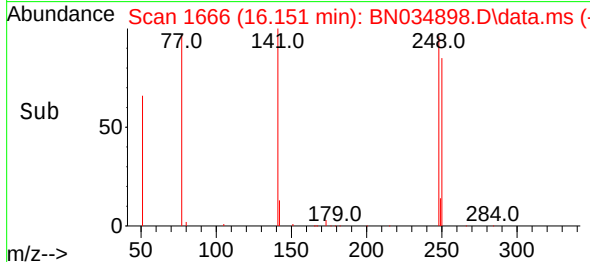
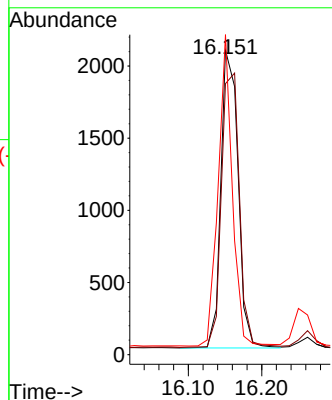
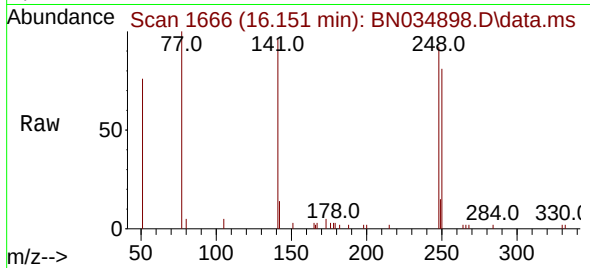




#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 16.151 min Scan# 1666
Delta R.T. -0.012 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

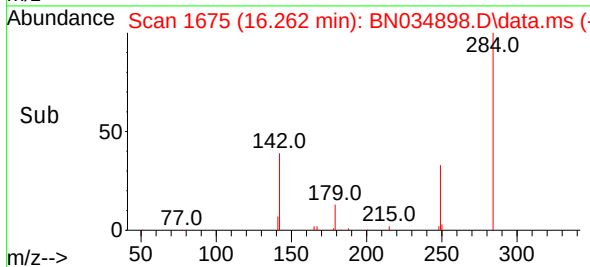
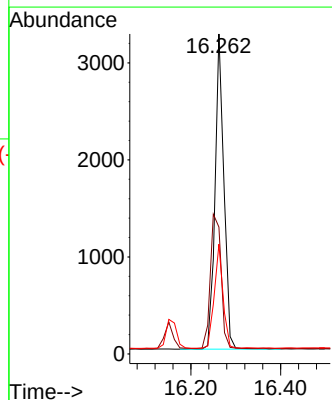
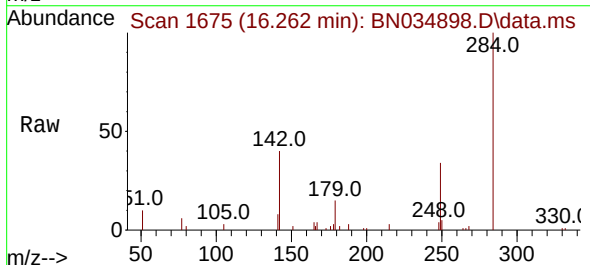
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

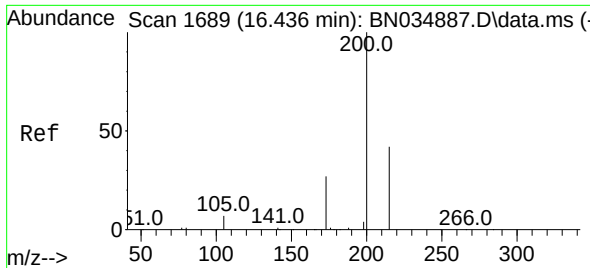
Tgt Ion:248 Resp: 3355
Ion Ratio Lower Upper
248 100
250 89.0 82.2 123.4
141 105.1 36.2 54.2#



#22
Hexachlorobenzene
Concen: 0.398 ng
RT: 16.262 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:284 Resp: 4416
Ion Ratio Lower Upper
284 100
142 51.9 43.4 65.2
249 32.6 25.8 38.6

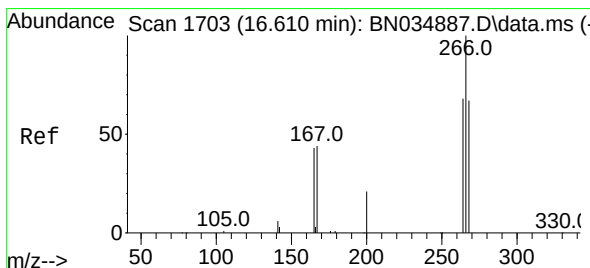
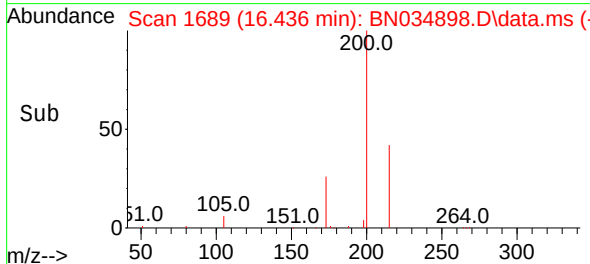
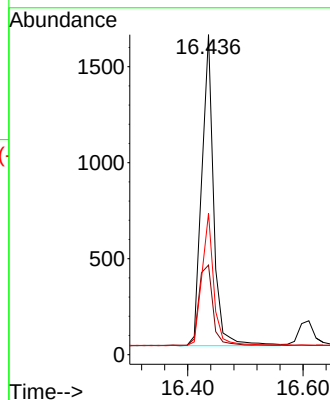
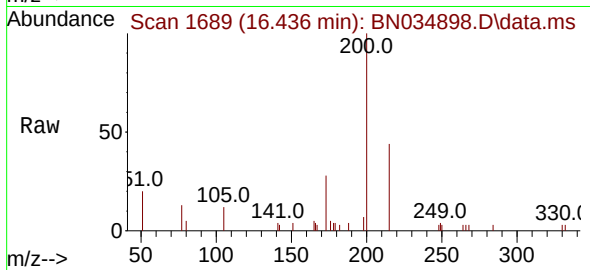




#23
Atrazine
Concen: 0.348 ng
RT: 16.436 min Scan# 1689
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

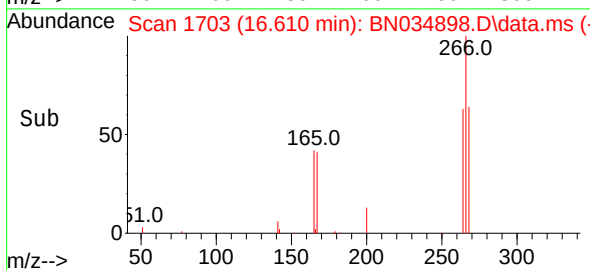
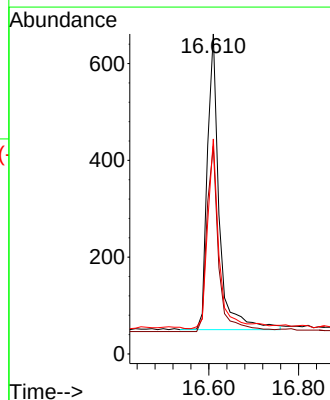
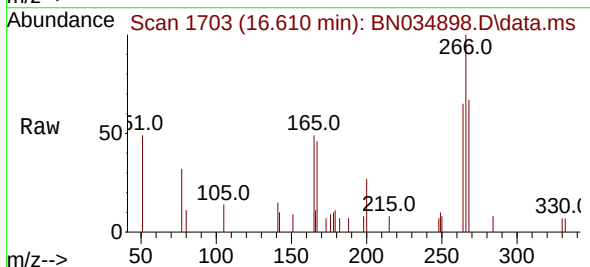
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

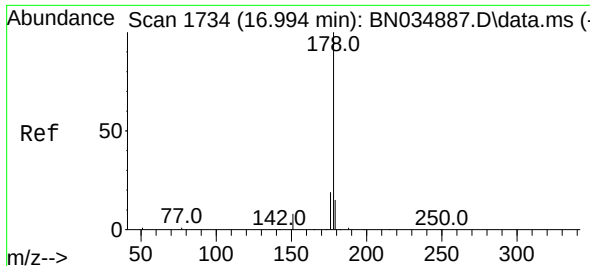
Tgt Ion:200 Resp: 2322
Ion Ratio Lower Upper
200 100
173 28.0 23.4 35.2
215 44.2 35.4 53.0



#24
Pentachlorophenol
Concen: 0.410 ng
RT: 16.610 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:266 Resp: 1123
Ion Ratio Lower Upper
266 100
264 62.5 51.3 76.9
268 62.5 53.0 79.6





#25

Phenanthrene

Concen: 0.385 ng

RT: 16.995 min Scan# 1734

Delta R.T. 0.000 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

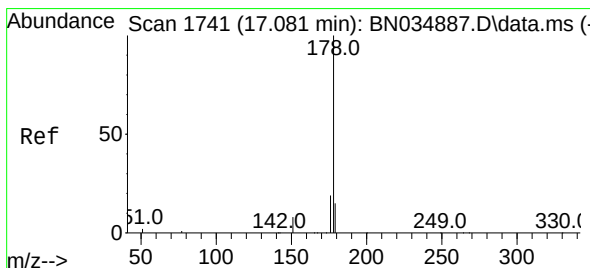
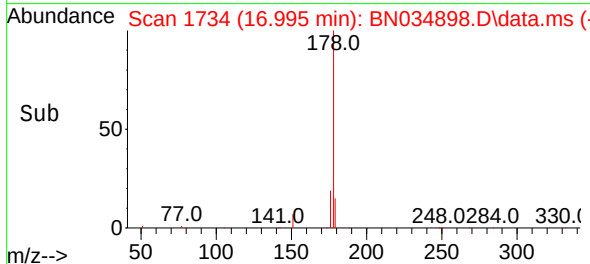
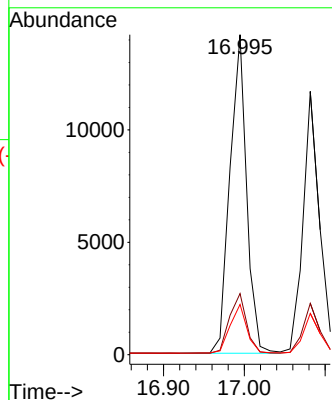
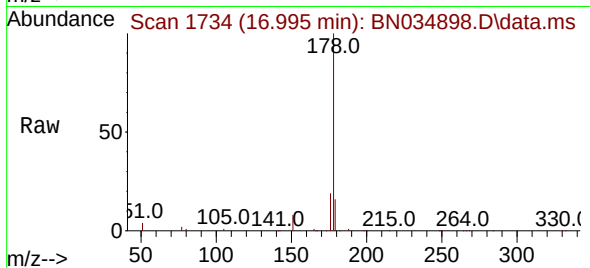
Tgt Ion:178 Resp: 20416

Ion Ratio Lower Upper

178 100

176 19.3 15.5 23.3

179 15.5 12.2 18.2



#26

Anthracene

Concen: 0.370 ng

RT: 17.082 min Scan# 1741

Delta R.T. 0.000 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

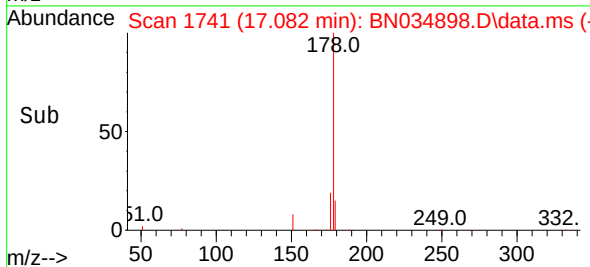
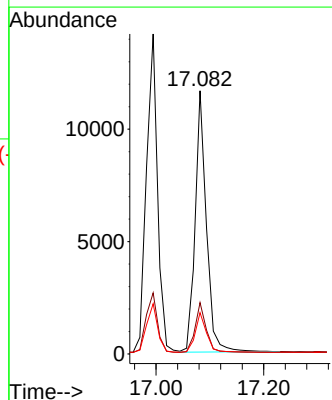
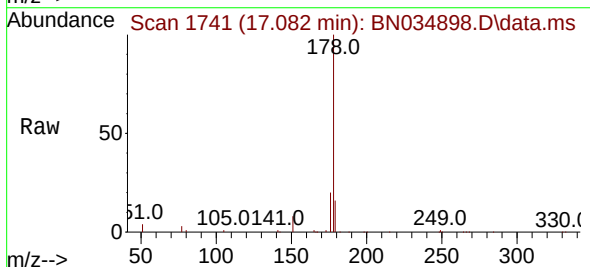
Tgt Ion:178 Resp: 16914

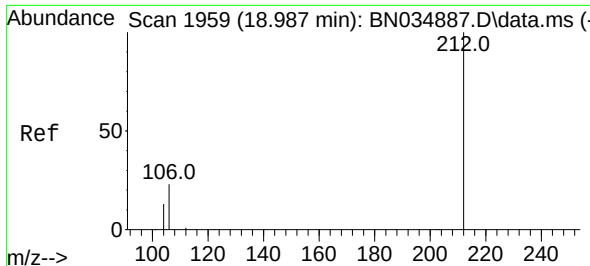
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 15.3 12.1 18.1

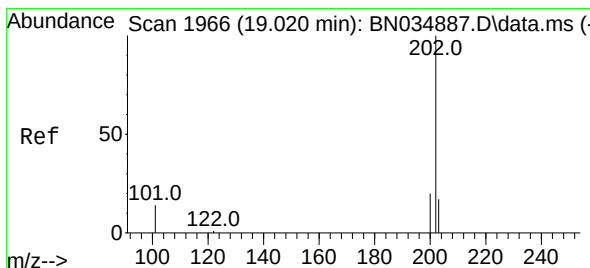
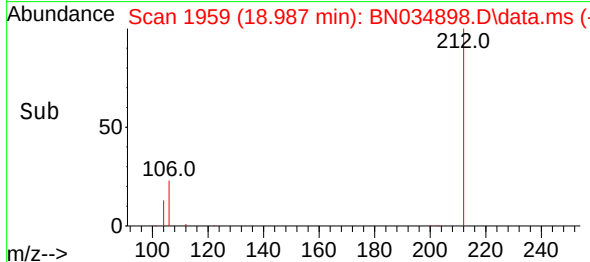
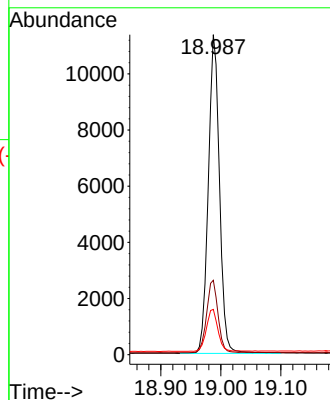
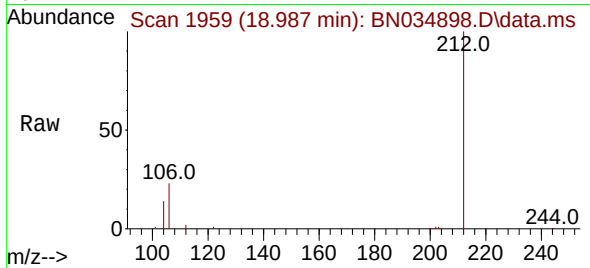




#27
Fluoranthene-d10
Concen: 0.378 ng
RT: 18.987 min Scan# 1959
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

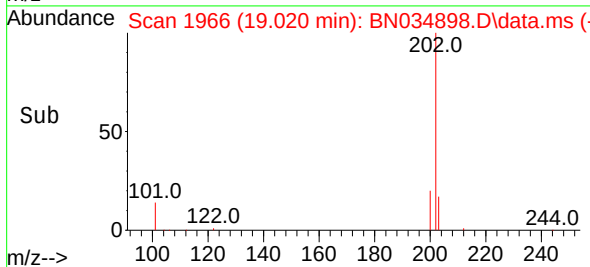
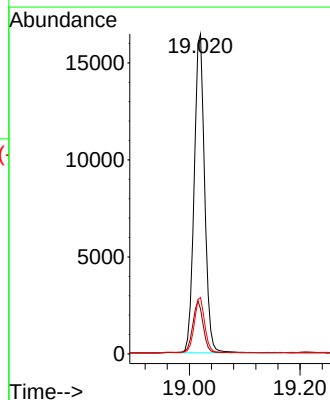
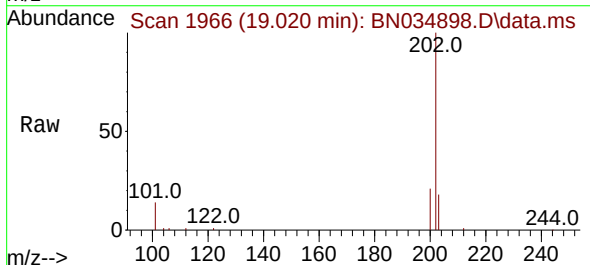
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

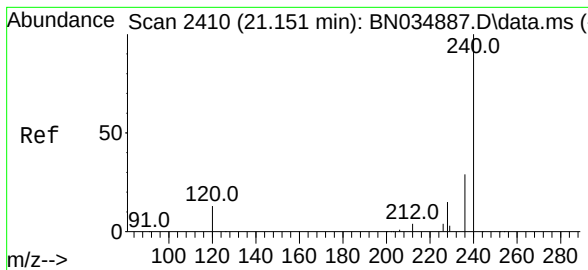
Tgt Ion:212 Resp: 14727
Ion Ratio Lower Upper
212 100
106 23.1 18.2 27.4
104 13.5 10.6 15.8



#28
Fluoranthene
Concen: 0.386 ng
RT: 19.020 min Scan# 1966
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:202 Resp: 21528
Ion Ratio Lower Upper
202 100
101 16.2 12.7 19.1
203 17.1 13.7 20.5

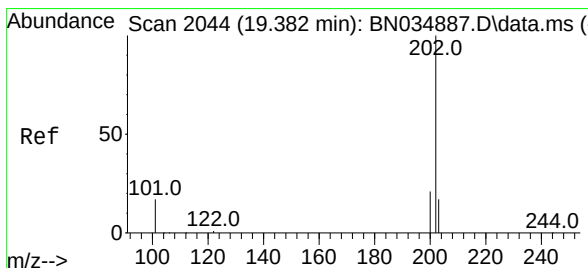
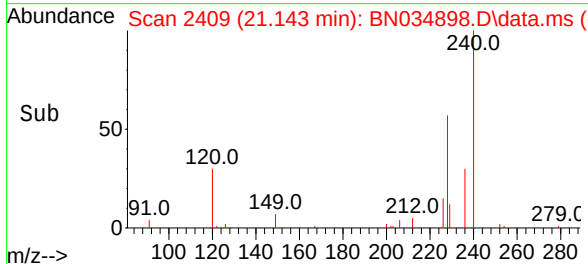
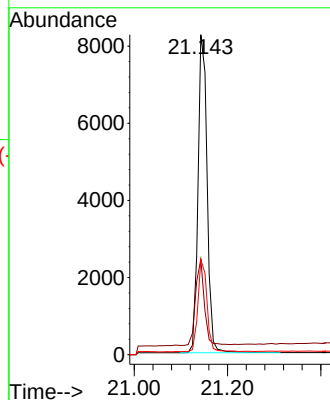
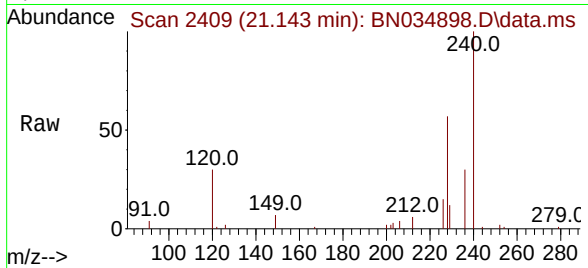




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.143 min Scan# 2409
Delta R.T. -0.009 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

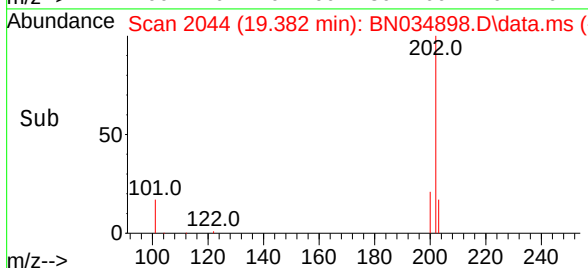
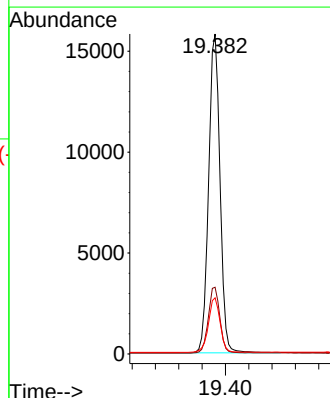
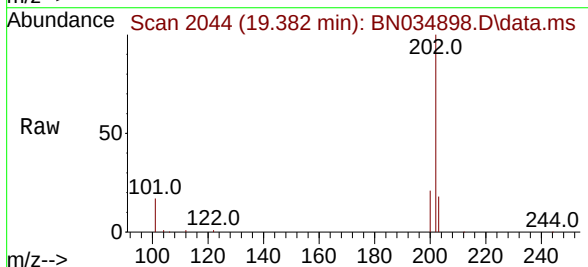
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

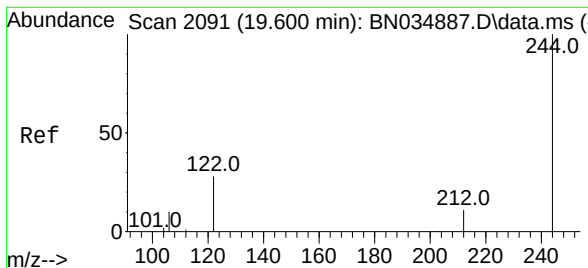
Tgt Ion:240 Resp: 11255
Ion Ratio Lower Upper
240 100
120 29.8 13.8 20.8#
236 29.7 23.8 35.6



#30
Pyrene
Concen: 0.377 ng
RT: 19.382 min Scan# 2044
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:202 Resp: 21506
Ion Ratio Lower Upper
202 100
200 20.9 16.8 25.2
203 17.8 14.1 21.1

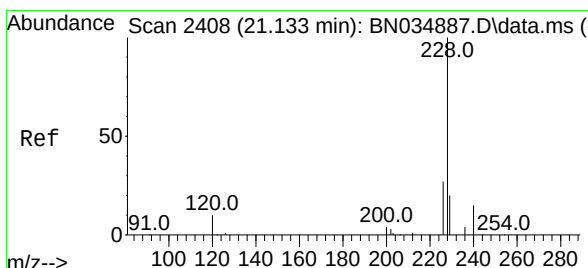
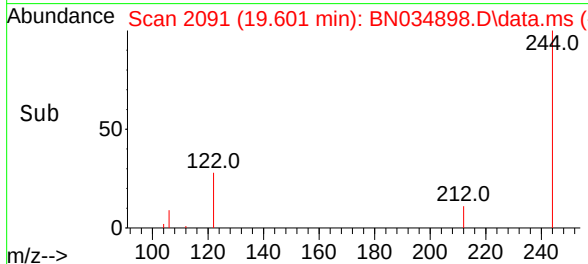
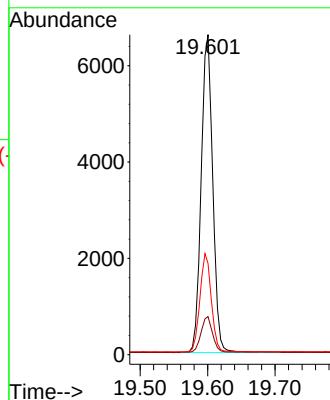
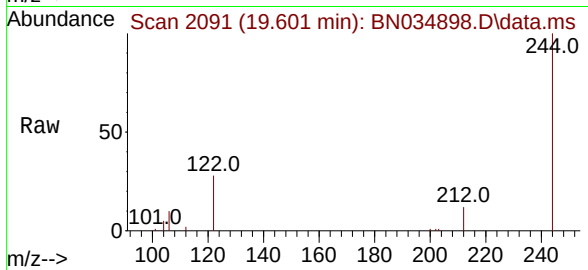




#31
 Terphenyl-d14
 Concen: 0.372 ng
 RT: 19.601 min Scan# 2091
 Delta R.T. 0.000 min
 Lab File: BN034898.D
 Acq: 08 Nov 2024 08:29

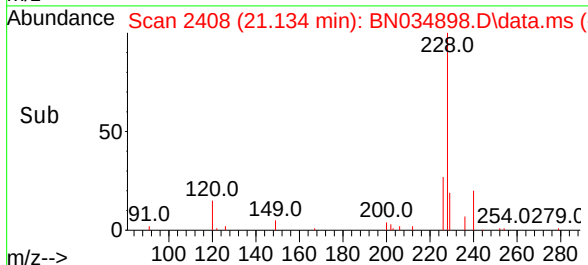
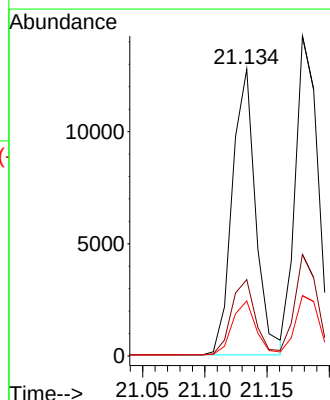
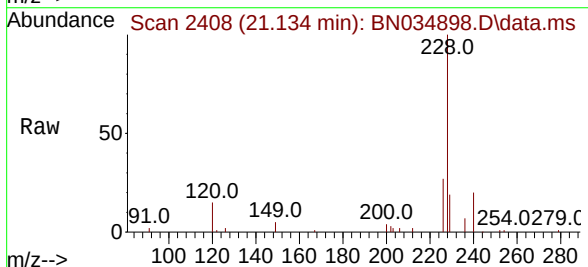
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

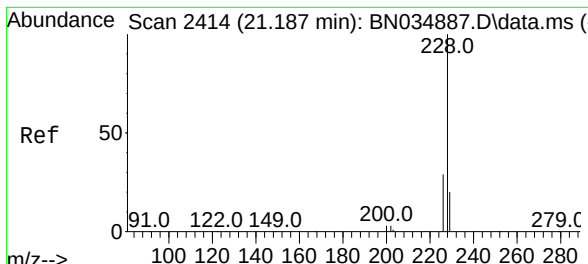
Tgt Ion:244 Resp: 7841
 Ion Ratio Lower Upper
 244 100
 212 11.9 9.4 14.0
 122 28.5 23.0 34.4



#32
 Benzo(a)anthracene
 Concen: 0.380 ng
 RT: 21.134 min Scan# 2408
 Delta R.T. 0.000 min
 Lab File: BN034898.D
 Acq: 08 Nov 2024 08:29

Tgt Ion:228 Resp: 16690
 Ion Ratio Lower Upper
 228 100
 226 26.6 22.2 33.2
 229 19.2 16.0 24.0

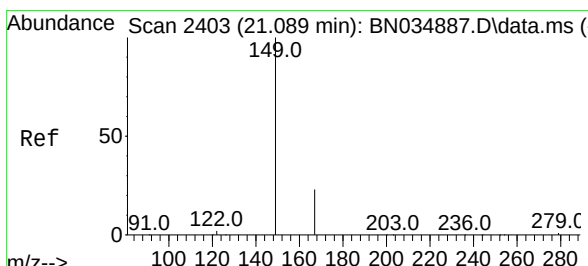
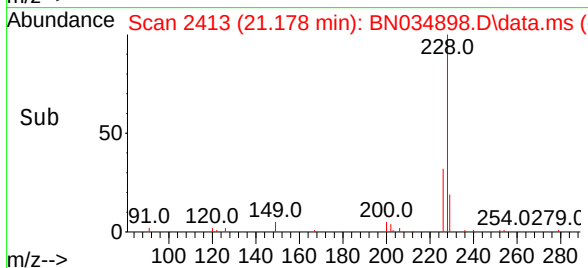
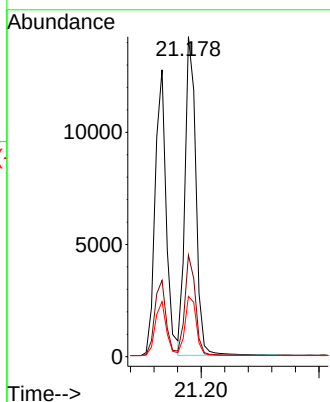
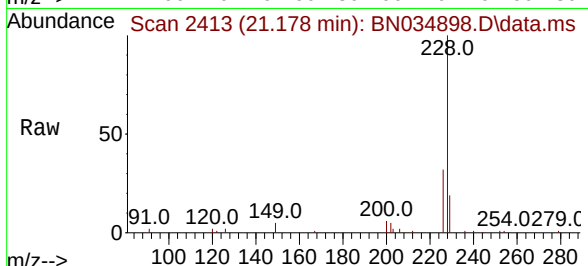




#33
Chrysene
Concen: 0.394 ng
RT: 21.178 min Scan# 2413
Delta R.T. -0.009 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

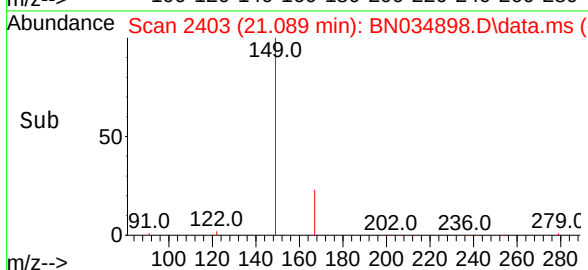
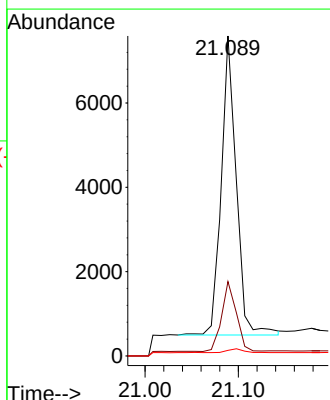
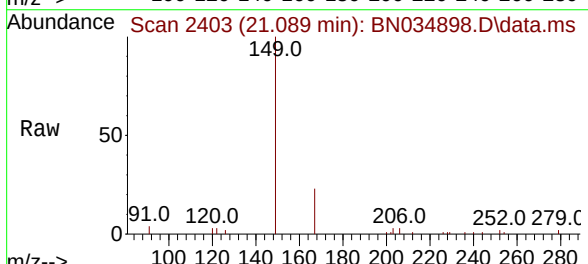
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

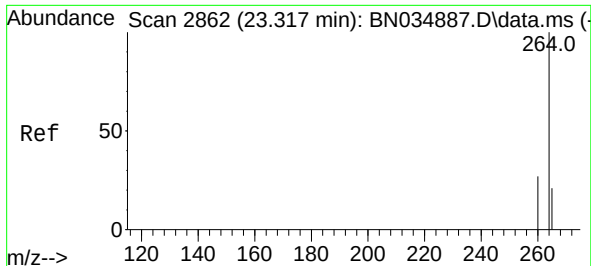
Tgt Ion:	228	Resp:	18283
Ion Ratio	Lower	Upper	
228	100		
226	31.8	23.7	35.5
229	18.8	16.3	24.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.315 ng
RT: 21.089 min Scan# 2403
Delta R.T. -0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

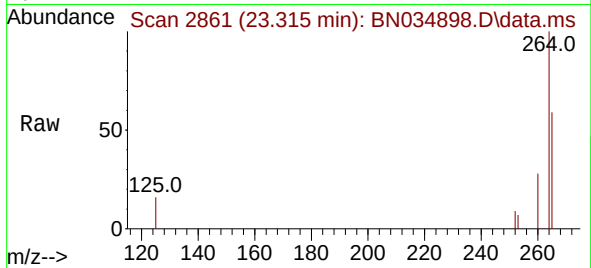
Tgt Ion:	149	Resp:	7924
Ion Ratio	Lower	Upper	
149	100		
167	22.7	18.1	27.1
279	1.6	1.2	1.8



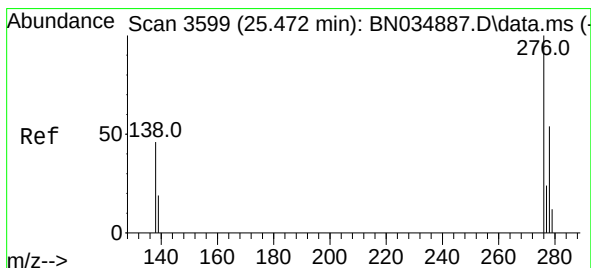
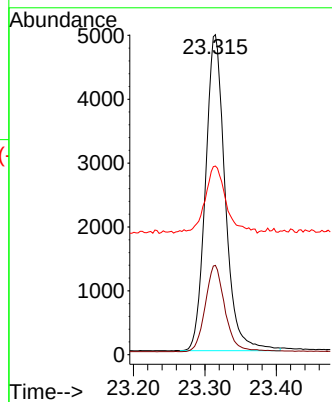
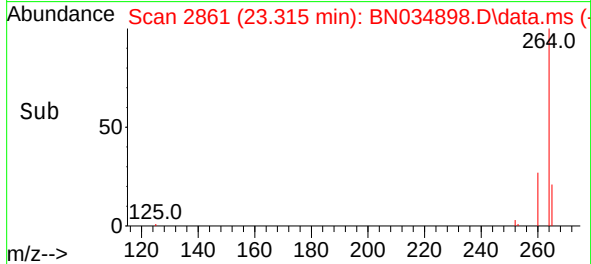


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.315 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

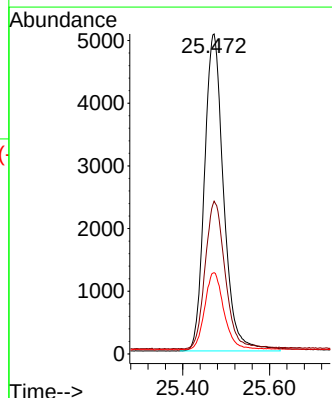
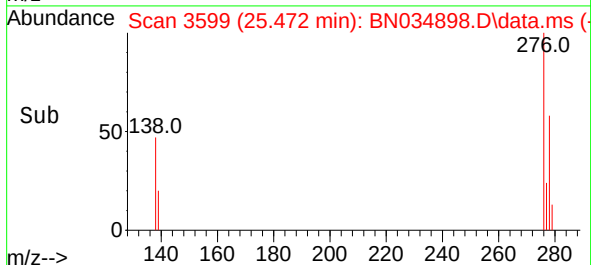
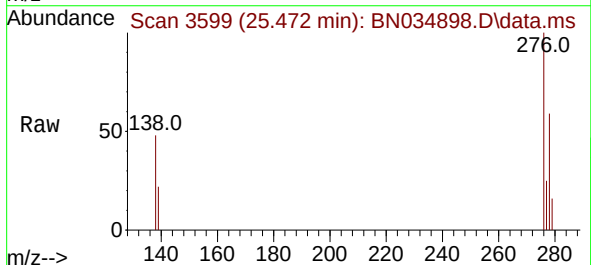


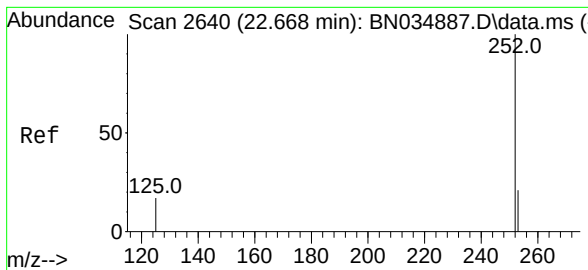
Tgt Ion:264 Resp: 9481
Ion Ratio Lower Upper
264 100
260 27.9 22.2 33.2
265 58.9 60.9 91.3#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.367 ng
RT: 25.472 min Scan# 3599
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:276 Resp: 15511
Ion Ratio Lower Upper
276 100
138 48.5 38.4 57.6
277 24.4 19.4 29.2

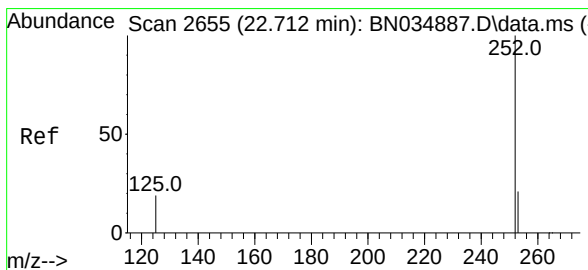
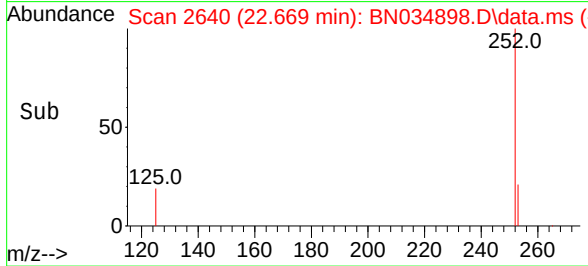
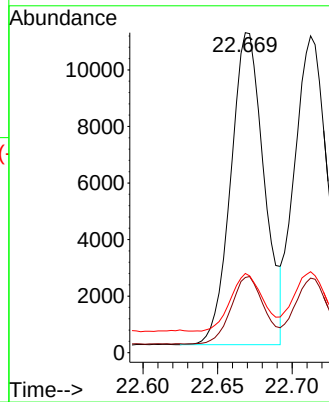
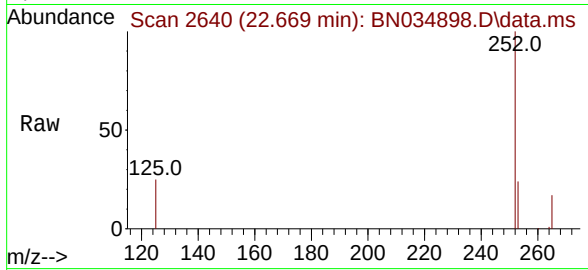




#37
Benzo(b)fluoranthene
Concen: 0.412 ng
RT: 22.669 min Scan# 2640
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

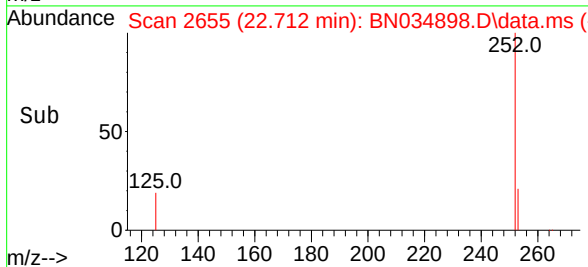
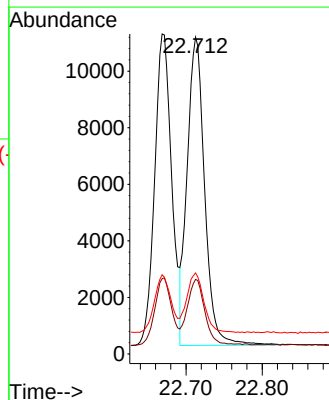
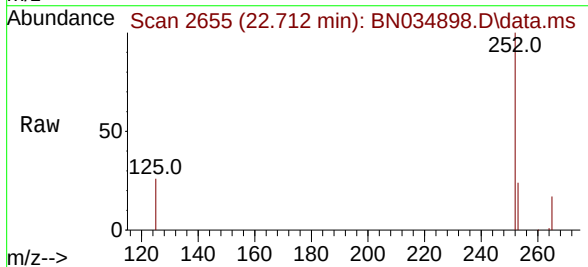
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

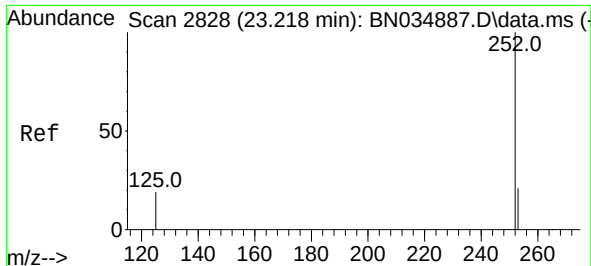
Tgt Ion:252 Resp: 17145
Ion Ratio Lower Upper
252 100
253 23.5 19.4 29.2
125 24.7 21.4 32.2



#38
Benzo(k)fluoranthene
Concen: 0.401 ng
RT: 22.712 min Scan# 2655
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Tgt Ion:252 Resp: 17383
Ion Ratio Lower Upper
252 100
253 23.5 19.8 29.8
125 25.6 22.6 33.8





#39

Benzo(a)pyrene

Concen: 0.377 ng

RT: 23.221 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

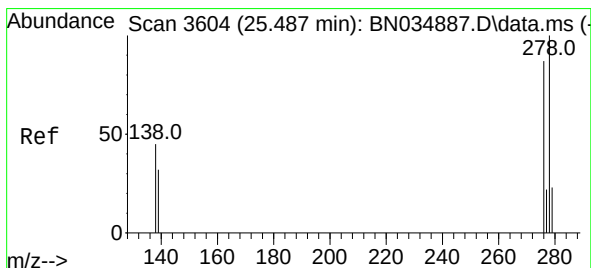
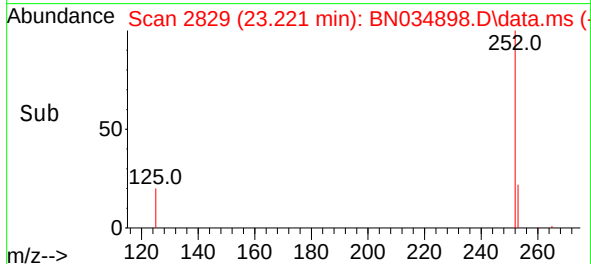
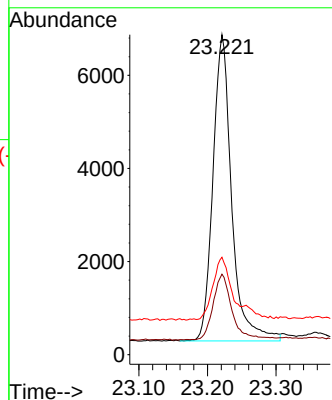
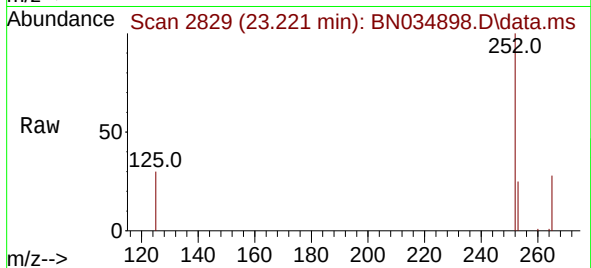
Tgt Ion:252 Resp: 12460

Ion Ratio Lower Upper

252 100

253 25.1 21.4 32.2

125 30.4 27.8 41.6



#40

Dibenzo(a,h)anthracene

Concen: 0.364 ng

RT: 25.484 min Scan# 3603

Delta R.T. -0.003 min

Lab File: BN034898.D

Acq: 08 Nov 2024 08:29

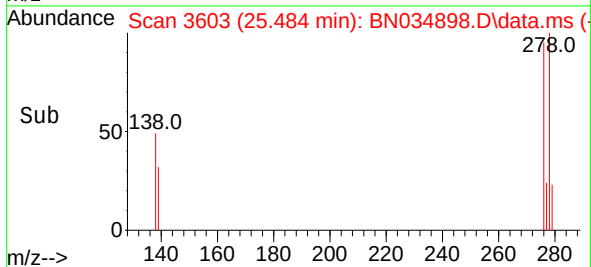
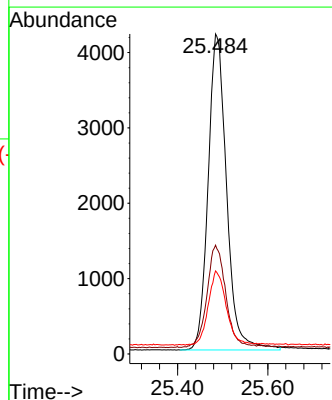
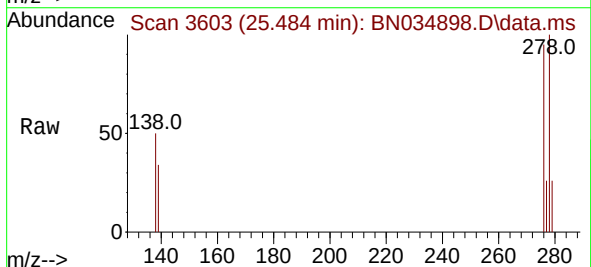
Tgt Ion:278 Resp: 11910

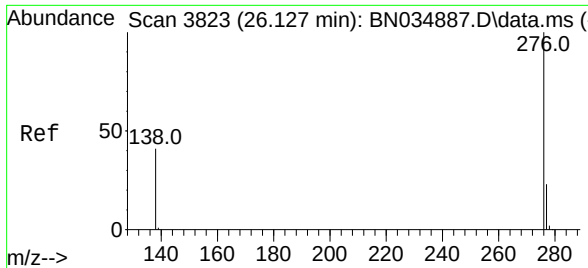
Ion Ratio Lower Upper

278 100

139 34.0 27.2 40.8

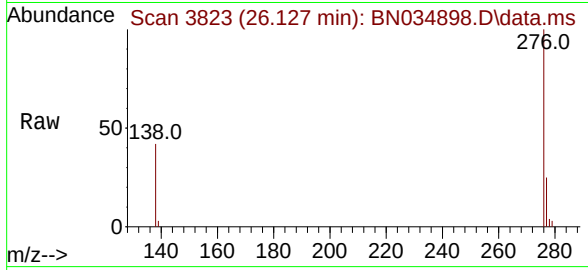
279 26.0 21.4 32.0





#41
Benzo(g,h,i)perylene
Concen: 0.378 ng
RT: 26.127 min Scan# 3823
Delta R.T. 0.000 min
Lab File: BN034898.D
Acq: 08 Nov 2024 08:29

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:276 Resp: 13103
Ion Ratio Lower Upper
276 100
277 24.9 20.2 30.2
138 42.1 33.9 50.9

